

# **Chevron Appalachia, LLC**

# Air Permit Application Berger Natural Gas Production Site

Moundsville, West Virginia



**Prepared By:** 

ENVIRONMENTAL RESOURCES MANAGEMENT, Inc. Hurricane, West Virginia

September 2015



Gary Orr Appalachia Area Manager Chevron Appalachia, LLC 700 Cherrington Parkway Coraopolis, PA 15108 Tel 412-865-2509 orrga@chevron.com

September 17, 2015

Mr. William F. Durham, Director WV Department of Environmental Protection Division of Air Quality 601 57th Street, SE Charleston, West Virginia 25304

#### HAND DELIVERED

**Re:** Chevron Appalachia, LLC, Moundsville, West Virginia Berger Pad A Natural Gas Production Facility G70-A Permit Application

Dear Director Durham:

Enclosed are one (1) original hard copy and two (2) CD-ROMs of a G70-A General Air Permit Application for the construction of the Berger Pad A Natural Gas Production Well Site. A check for \$4,000 is enclosed for the application fee.

If you have any questions concerning this permit application, please contact Ms. Amy McGreevy, Air Specialist, of my staff at (412) 865-2495.

Sincerely,

Gary Orr // Appalachia Area Manager

### INTRODUCTION

Chevron Appalachia, LLC is submitting this G70-A Class II General Permit application to the WVDEP's Division of Air Quality for the Berger Pad A natural gas production site located in Marshall County, West Virginia. This application addresses the operational activities associated with the production of natural gas and condensates at Berger Pad A.

### FACILITY DESCRIPTION

The Berger Pad A natural gas production site will operate in Marshall County, WV and consists of eight (8) natural gas wells. Natural gas and liquids (including water and condensates) are extracted from underground deposits. The natural gas and condensates will be transported from the wells to sales pipelines for compression or pumping and additional processing, as necessary. The produced water and fluids realized from blowdown activities are stored in storage vessels.

The applicant seeks to authorize the operation of:

- Eight (8) natural gas wells;
- Eight (8) GPU line heaters each rated at 1.25 MMBtu/hr heat input;
- One (1) Condensate line heater rated at 1.25 MMBtu/hr heat input;
- One (1) 400 bbl test tank for storage of produced water;
- One (1) 625 bhp temporary natural gas-fired RICE engine used for the compression of vapors realized at the condensate flash vessel;<sup>i</sup>
- One (1) VRU (electric drive);
- One (1) test vent stack;
- Four (4) 400 barrel (bbl) tanks for the storage of produced water; and
- One (1) Tank Truck Loading Operation.

A process flow diagram is included in this application in Attachment D.

<sup>&</sup>lt;sup>i</sup> Chevron Appalachia, LLC proposes to operate a rental electric drive flash gas compressor to route flash gases realized in the condensate flash vessel to the gas sales line. To account for large amounts of flash gas expected during initial well operations, a temporary natural gas-fired RICE will be installed.

## **REGULATORY DISCUSSION**

This section outlines the State and Federal air quality regulations that could be reasonably expected to apply to the Berger Pad A and makes an applicability determination for each regulation based on activities conducted at the site and the emissions of regulated air pollutants. This review is presented to supplement and/or add clarification to the information provided in the WVDEP G70-A permit application forms.

The West Virginia State Regulations address federal regulations, including Prevention of Significant Deterioration permitting, Title V permitting, New Source Performance Standards, and National Emission Standards for Hazardous Air Pollutants. The regulatory requirements in reference to Berger are described in detail in the below section.

## WEST VIRGINIA STATE AIR REGULATIONS

45 CSR 02 – To Prevent and Control Particulate Air Pollution From Combustion of Fuel in Indirect Heat Exchangers

The line heaters are indirect heat exchangers that combust natural gas with heat input ratings less than 10 MMBtu/hr. Such units are subject to 10% opacity as a six-minute block average limitation, but are exempt from most other requirements in the rule aside from discretionary testing requirements.

45 CSR 04 – To Prevent and Control the Discharge of Air Pollutants into the Air Which Causes or Contributes to an Objectionable Odor

Operations conducted at the Berger wellpad are subject to this requirement. Based on the nature of the process at the wellpad, the presence of objectionable odors is unlikely.

## 45 CSR 06 – Control of Air Pollution from the Combustion of Refuse

There will be no combustion of refuse at the Berger wellpad. The external fuel combustion heaters do not meet the definition of incinerators under this Rule.

45 CSR 10 – To Prevent and Control Air Pollution From the Emission of Sulfur Oxides

The line heaters are indirect heat exchangers that combust natural gas with heat input ratings less than 10 MMBTU/hr. Such units are subject to the 2,000 ppm<sub>v</sub> sulfur dioxide concentration limitation but are exempt from most other requirements in the rule aside from discretionary testing requirements. Compliance with the allowable sulfur dioxide concentration limitations is based on a block (3) hour averaging time.

45 CSR 13 – Permits for Construction, Modification, Relocation, And Operation of Stationary Sources of Air Pollutants

This G70-A permit application is being submitted for the operational activities associated with Chevron Appalachia, LLC's production of natural gas.

45 CSR 14 – Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration

Federal construction permitting programs regulate new and modified sources of attainment pollutants under Prevention of Significant Deterioration (PSD). The G70A-applicability criterion excludes facilities that meet the definition of a major source as defined in 45 CSR 19 for being eligible for the general permit.

Operation of equipment at the Berger Pad A Site will not exceed emission thresholds established by this permitting program. Chevron Appalachia, LLC will monitor future construction and modification activities at the site closely and will compare any future increase in emissions with the PSD thresholds to ensure these activities will not trigger this program.

## 45 CSR 16 - Standards of Performance for New Stationary Sources (NSPS)

45 CSR 16 applies to all registrants that are subject to any of the NSPS requirements described in more detail in the Federal Regulations section. Applicable requirements of NSPS, Subpart JJJJ and OOOO are included in the G70-A general permit.

This facility is expected to operate as a gas well affected facility and a storage tank affected facility under Subpart OOOO. No additional NSPS are applicable for this facility. Additional discussion is provided in the Federal Regulation Discussion of this permit application.

## 45 CSR R19 – Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution which Cause or Contributed to Non-attainment

Federal construction permitting programs regulate new and modified sources of non-attainment pollutants under Non-Attainment New Source Review (NNSR). The G70A-applicability criterion excludes facilities that meet the definition of a major source as defined in 45 CSR 19 for being eligible for the general permit.

Operation of equipment at the Berger Pad A Site will not exceed emission thresholds established by either of these permitting programs. Chevron Appalachia, LLC will monitor future construction and modification activities at the site closely and will compare any future increase in emissions with the NSR thresholds to ensure these activities will not trigger this program. 45 CSR 25 – Control of Air Pollution from Hazardous Waste Treatment, Storage, and Disposal Facilities

No hazardous waste will be burnt at this well site; therefore, it is not subject to this hazardous waste rule.

## 45 CSR 30 – Requirements for Operating Permits

45 CSR 30 applies to the requirements of the federal Title V operating permit program (40 CFR 70). The major source thresholds with respect to the West Virginia Title V operating permit program regulations are 10 tons per year (tpy) of a single HAP, 25 tpy of any combination of HAP, and 100 tpy of all other regulated pollutants.

The potential emissions of all regulated pollutants are below the corresponding threshold(s) at this facility after the proposed project. Therefore, the wellpad is not a major source for Title V purposes.

45 CSR 34 – National Emission Standards for Hazardous Air Pollutants (NESHAP)

45 CSR 34 applies to all registrants that are subject to any of the NESHAP requirements. Excluded from G70-A general permit eligibility are any sources that are subject to NESHAP Subpart HHH.

The Berger Pad A will operate a reciprocating internal combustion engine subject to 40 CFR 63 Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as discussed in the Federal Regulation Applicability of this application.

The following NESHAP included in the G70-A permit are not subject to the Berger facility:

• 40 CFR 63 Subpart HH (National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities).

## FEDERAL REGULATIONS

40 CFR 60, Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)

Subpart JJJJ established standards and compliance schedules for the control of volatile organic compounds (VOC), Nitrogen Oxides (NOx), and Carbon Monoxide (CO) emissions from affected facilities that commence construction, modification, or reconstruction after June 12, 2006. The applicable provisions and requirements of Subpart JJJJJ are included under the G70-A permit.

The natural gas-fired flash gas compressor that will be installed at the Berger natural gas production facility is not subject to the requirements of this Rule. The engine is a non-emergency spark ignition internal combustion engine with less than 500 bhp that will be installed at the site in 2015 but was constructed prior to June 12, 2006 (§60.4230(a)(4)(iii)). Please note that the engine has not been reconstructed or modified after June 12, 2006.

40 CFR 60, Subpart OOOO (Standards of Performance for Crude oil and Natural Gas Production, Transmission and Distribution)

Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO<sub>2</sub>) emissions from affected facilities that commence construction, modification or reconstruction after August 23, 2011. The applicable provisions and requirements of Subpart OOOO are included under the G70-A permit.

This facility includes gas well affected facilities under Subpart OOOO. Additionally, this facility qualifies as a storage tank affected facility with post control VOC emissions greater than 6 tons per year.

There is equipment that will be installed at the Berger Pad A Site that does not meet the affected facility definitions as specified by EPA. Such equipment includes pneumatic controllers.

<u>Pneumatic Controllers</u>: There will not be any high bleed pneumatic controllers installed at the Berger Pad A Site. All pneumatic controllers installed at this facility will be intermittent bleed or low continuous bleed devices. Based upon the pneumatic controllers installed at the Site, Berger Pad A does not qualify as a pneumatic controller affected facility.

No additional NSPS Rules are expected to be applicable to this facility.

40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)

The CAT G398TAA Compressor Engine is subject to the requirements of 40 CFR 63 Subpart ZZZZ. The engine was manufactured prior to June 12, 2006 and has not been reconstructed or modified. The engine qualifies as a 4 stroke rich burn Spark Ignition (SI) Internal Combustion Engine (ICE). The engine is not classified as a black start or emergency engine. The Berger well site does not qualify as a remote side, since there are five of more buildings intended for human occupancy within a 0.25 mile radius of the engine. With a brake horsepower rating of 625, this engine is subject to the requirements of 63.6603(a),

as outlined in Table 2d.12. The requirements for non-emergency, non-black start, non-remote 4SRB stationary RICE with more than 500 hp are as follows:

• Install NSCR to reduce HAP emissions from the stationary RICE.

The following NESHAP Rules included in the G70-A permit are not applicable to the Berger facility:

40 CFR 63 Subpart HH (National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities)

The Berger Pad A Site will not operate any affected equipment, as defined under this Rule, and therefore is not subject to the standards of this Rule.

#### Analysis Regarding Applicability of Source Aggregation

This analysis addresses how well-site equipment owned and operated by Chevron Appalachia, LLC (Chevron) should be treated in relation to equipment owned and operated by Williams Ohio Valley Midstream (Williams OVM), specifically asking whether or not it would be appropriate to treat them as two stationary sources or as a single source under the Prevention of Significant Deterioration (PSD) and Title V permitting programs. Treating them as a single source would be improper and inconsistent with the intent of the Clean Air Act.

As explained in detail below, the two companies' equipment at or near the West Virginia natural gas well sites are not under common control—even where that equipment might be located near one another. Therefore, these are separate sources under the Clean Air Act and the regulations of the West Virginia Department of Environmental Protection, Division of Air Quality (DAQ). This means that these separate source emissions should not be aggregated in determining applicability of permitting programs.

For these reasons, and for those more fully explained below, aggregation would be inappropriate here.

#### **Background**

Chevron is a natural gas producer that acquired several natural gas wells from Chief Oil and Gas LLC (Chief) and AB Resources LLC (AB Resources) in mid-2011. In 2009, Chief and AB Resources entered into a "gathering agreement" with Caiman Eastern Midstream (Caiman) to compress and process the gas produced. Subsequently, Williams OVM purchased Caiman and now owns the gathering system. The natural gas well-sites that Chevron acquired are being produced with equipment typically found at natural gas well-sites, which may include heaters, separators, tanks (produced water, condensate, blowdown), and in some cases, vapor destruction and/or vapor recovery units. The equipment associated with the gathering system includes compressors and dehydration units, all of which are separately owned and operated by Williams OVM. Ultimately, the gas is routed to processing plants, owned by either Williams or MarkWest.

The sites produce and sell condensate, which also must be gathered and processed. Depending on which of the sites is involved, the condensate may be stored in a condensate tank and trucked offsite for processing or may be pumped offsite by pipeline. The condensate is gathered and processed by either Williams OVM or another company, Ergon, which currently contracts with sites that are not pipeline-equipped. Ergon could also truck condensate at sites where the condensate is currently pumped offsite and may be called upon to do so if there is a disruption or Chevron chooses to enter into a contract for that purpose. Both Ergon and Williams would process the condensate at their plants, depending on which of them Chevron contracts with for that service at that site. As a result, there are distinct systems for production and condensate, which may or may not necessitate emission units on site. Chevron owns and operates a production system, and Williams OVM and Ergon own and operate gathering and processing systems for gas and condensate.

As a general matter, Williams OVM's business is to process and transport gas and condensate and Ergon's business is to process and transport condensate produced from wells owned by exploration and production companies. Companies like Williams OVM and Ergon are not producers, and they independently operate whatever equipment they may need to achieve their business goals. In the case of Williams OVM, compression and dehydration equipment and condensate storage and processing equipment are in service to support their business.

Before providing its services, Williams OVM—like its predecessors in interest—enters into contracts to move customers' gas and condensate from receipt points (wells) to delivery points. Moreover, Williams OVM's predecessors in interest had to design the gathering system in such a way to meet its contractual obligations. Gas and condensate entering and leaving Williams OVM's gathering system is not owned by Williams OVM but is rather owned by the producers with whom it contracts. The types of equipment and emission units that are required for gathering gas are typically compressors and dehydrators but may also include vapor destruction or vapor recovery units.

Here, Williams OVM provides pipeline and compression for gas and condensate gathering for 17 wells owned by Chevron. This analysis focuses on one well site in particular—the Berger Pad A (Berger site). For the Berger site, Williams OVM performs gas gathering services offsite, while condensate is pumped offsite for processing by Williams OVM.

At the Berger site, Chevron and Williams OVM perform separate operations. Chevron and Williams OVM each operate their separate equipment, serving separate functions—production and gathering—under a gas gathering agreement. To be clear, there is no common ownership of the equipment. Moreover, Chevron does not have decisionmaking authority over Williams OVM, nor does Williams OVM have such authority over Chevron, and there is no voting interest of one company in the other or shared board members. Finally, as discussed in more detail below, the key commonalities that EPA looks for in determining if a control relationship exists are not present here.

Consistent with the general arrangement discussed just above, Chevron owns specific equipment at the Berger site, and Williams OVM will own distinct gathering and processing equipment. Thus, Chevron owns twelve heaters, five produced water tanks, one test tank, eleven separators, one flash gas compressor, and a vapor recovery unit, whereas Williams OVM will own a dehydrator and sales gas compressor. Moreover, the equipment is located more than 500 feet apart at this site.. Finally, there is not a common relationship in any event. Chevron cannot direct the operation of Williams OVM's equipment, nor can Williams OVM do the same to Chevron.

Moreover, it is possible that independent third parties might own and operate future wells at or near Chevron's well sites, and if that happens, it is anticipated that the Williams OVM's gathering system will accept any gas produced by these other owners and operators. Chevron does not have a say over what other gas Williams OVM processes.

#### **Regulatory Definitions and Select Guidance**

The emissions activities of two or more stationary sources cannot be aggregated unless the sources meet all of the following criteria:

- (1) they belong to the same industrial grouping;
- (2) they are located on contiguous or adjacent properties; and
- (3) they are under common control of the same person or persons under common control.<sup>1</sup>

In addition to the above factors, permitting authorities apply the guidelines established in the 1980 Preamble to EPA's New Source Review regulations. Those guidelines provide that, to be considered a source for aggregation purposes in the PSD and Title V context, the source must: (1) further the purposes of the PSD program, (2) meet a common sense idea of plant, and (3) not include pollutant activities that do not come within an ordinary concept of what constitutes a "building, structure, facility or installation." Permitting authorities have determined that these additional considerations must also be met in order for pollutant-emitting activities to be properly aggregated. Because source determinations are case-by-case, considering the specific facts of the situation,<sup>2</sup> prior agency statements and source determinations related to oil and gas activities may be instructive but are not determinative.<sup>3</sup> Thus, under EPA's own guidance, factors unique to

<sup>&</sup>lt;sup>1</sup> 40 C.F.R. § 70.2.

<sup>&</sup>lt;sup>2</sup> Memorandum from Gina McCarthy, Assistant Administrator, Office of Air and Radiation, *Withdrawal of Source Determination for Oil and Gas Industry*, 2 (Sept. 22, 2009) available at

http://www.epa.gov/region7/air/nsr/nsrmemos/oilgaswithdrawal.pdf (McCarthy Memo).

<sup>&</sup>lt;sup>3</sup> CDPHE Frederick Station Response at 8.

the hydraulic-fracturing production and processing must be taken into account in conducting any aggregation analysis.

In August 2012, the U.S. Court of Appeals for the Sixth Circuit rejected an effort by EPA to supplant the case-by-case aggregation analysis discussed above with a "functional interrelationship" test. *Summit Petroleum Co. v. EPA, et al.*, 690 F.3d 733 (6th Cir. 2012). The court reaffirmed that the plain meaning of EPA's regulatory requirements controlled and were governed by a case-by-case analysis.

Similarly, the Department of Air Quality (DAQ) reaffirmed the case-by-case approach in a May 1, 2013, letter to two West Virginia oil and gas trade associations regarding Aggregation of Sources and Common Control (May 2013 DAQ Letter). That letter responded to an April 16, 2013 letter from the associations that had expressed concern over recent DAQ source determinations. The associations' letter focused on DAQ's evaluation of whether an entity is under the "control" of another by suggesting that a common control relationship exists whenever 50% or more of the output or services of one company's facility are dedicated to operations at another company's facility. DAQ's response appropriately reinforced the case-by-case nature of source determinations, referencing the Securities and Exchange Commission (SEC) control definition, which considers control to be "the possession, direct or indirect, or the power to direct or cause the direction of the management and policies of a person (or organization or association) whether through ownership of voting shares, contract or otherwise," which has been applied by EPA and permitting authorities. DAQ explained that common control exists where there is an ownership relationship-i.e., the same parent company or subsidiary of a parent company or where an entity has decision-making authority over the operation of the second entity through a contractual agreement or voting interest. Where neither of these exists, as here, DAQ stated that it would next look at "whether there is a contract for service relationship between the two entities or if a support/dependency relationship exists between the two entities such that a common control relationship exists."

Other regulatory agencies also have acknowledged the need for flexibility in source determinations in the oil and gas industry, noting that the "locations of natural gas wells and surface facilities are determined by a variety of factors," many of which are beyond the control of the oil and gas production companies that drill the wells. See In the Matter of Kerr-McGee/Anadarko Petroleum Corporation, Frederick Compressor Station, Response of Colorado Department of Public Health and Environment, Air Pollution Control Division, to Order Granting Petition for Objection to Permit at 7 (July 14, 2010) (CDPHE Frederick Station Response). For example, the Colorado Department of Public Health and Environment (CDPHE) specifically cited to spacing requirements for gas wells, which are established and regulated by a number of different entities in that state, including the Colorado Oil and Gas Conservation Commission on private and state-owned lands, Federal agencies such as the Bureau of Land Management on Federal lands, and Tribal authorities on Tribal lands. CDPHE further observed that oil and gas production companies must also negotiate surface use agreements, pipeline agreements and rights-of-way with surface right owners in the areas where wells are being drilled and developed, acknowledging that these agreements, which often focus on minimizing the surface footprint and impact of the oil and gas operations, dictate the locations of surface facilities, minimum offsets from adjoining boundaries and the number of well pads allowed. Geological, topographical, and engineering considerations, along with logistical factors such as access restrictions and the availability of power, also drive siting decisions.

#### Aggregation Analysis

Because the Chevron and Williams OVM facilities will operate under the same two-digit SIC code (here major group 13), the key questions are whether the operations are on contiguous or adjacent property and are under common control. Although the operations are located in close proximity, there is separation of more than 500 feet in many instances, and, as the CDPHE recognized in Colorado, there are non-environmental-regulatory reasons explaining this proximity. In addition, Chevron and Williams OVM operations are not under the control of the same person or persons under common control. Indeed, they each will separately operate their separate equipment, and there is no strict interdependency but rather a contractual relationship

between an upstream and midstream operator (which, as discussed below, reflect the unique nature of the oil and gas industry).

#### 1. Located on Contiguous or Adjacent Properties

Emissions activities must be located on contiguous or adjacent property to be considered a single source. In keeping with the fact-specific nature of the aggregation analysis, there is no exact distance that would cause two activities to be considered contiguous. Physical proximity is the main, if not only, factor for determining whether properties are contiguous or adjacent, and consideration of functional interdependence of two activities is improper in assessing this criterion. *See* May 2013 DAQ Letter. This is consistent with the Sixth Circuit's decision in *Summit Petroleum*. Although, in certain instances, EPA and some state environmental agencies have included a functional interdependence test, Chevron agrees with DAQ's approach to that issue and with the *Summit Petroleum* decision rejecting an expansion of the three-pronged aggregation analysis.<sup>4</sup>

Here, some of the natural gas well pads for which Chevron seeks permits—the Berger site in particular—feature Chevron equipment and Williams OVM equipment directly adjacent on the same well pad, but at other sites, the equipment is separated by some distance. As noted by the court in *Summit Petroleum Co.*, there is no bright line distance for determining adjacency. Where the Williams OVM equipment is located on property that is separated by a road or otherwise from the location of the Chevron equipment, the contiguous/adjacency criterion would not be met and such equipment could not be aggregated for permitting purposes. With respect to those situations where the Chevron equipment and Williams OVM equipment are located directly on the same well pad, one must consider the myriad of technical and regulatory reasons that drive a siting determination.

Moreover, it is important to recognize that, although equipment may be located on contiguous or adjacent property, that proximity should not be used as a basis for supporting a positive finding under the separate, common-control criterion (which we discuss below). Indeed, the co- or nearby-location of such equipment is a function of terrain and siting requirements in West Virginia. These are selected based upon non-environmental regulatory requirements, such as to minimize the number of wells, and on negotiated agreements, such as surface-use agreements, pipeline agreements, and rights-of-way agreements with surface right owners who seek to minimize the site footprint and to consolidate equipment that might otherwise have been separately located. This point has been acknowledged by the CDPHE decision in the case of the Frederick Compressor Station in Colorado, discussed above, *CDPHE Frederick Station Response* at 7-8, and CDPHE emphasized that the siting considerations in the oil and gas industry are "unique and inherent" to that industry and do not necessarily establish a conclusion on the relationship between two facilities that might apply based on EPA guidance for other industrial sectors. CDPHE indicated its intent to evaluate issues, like common control, within the context of the oil and gas industry rather than concluding that co-location indicated a *per se* "control relationship." *Id.* 

In sum, although spatial limitations of available drilling and production sites, terrain requirements, and a desire to minimize agreements with landowners drive the location of gathering equipment nearby wells, this in no way should be used to support aggregation of separately owned and operated equipment for permitting purposes.

### 2. Under Common Control of the Same Person or Persons Under Common Control

Even if equipment is located at a contiguous/adjacent location, if there is separate ownership and operation, and the operations are not under the control of the same person or persons under common control, the

<sup>&</sup>lt;sup>4</sup> While EPA is not following the Summit Petroleum decision outside the 6<sup>th</sup> Circuit, Chevron believes that the reasoning therein is likely to be applied in other circuits and, in any case, DAQ is free to adopt the reasoning, whether or not DAQ is "following" the decision.

sources remain separate. This factor alone disposes of the analysis and compels a conclusion that the sources may not be aggregated in determining permitting applicability.

Although "common control" is not defined in the rules, source specific determinations and guidance have informed its meaning since EPA issued the underlying regulations in 1980. EPA has identified three alternative methods of establishing common control for purposes of source aggregation under Clean Air Act Titles I and V:

- (1) common ownership;
- (2) operational control; and
- (3) control relationship.<sup>5</sup>

As to the first method, here, Chevron and Williams OVM do not have common ownership. As to the second, Chevron does not have decision-making authority over Williams OVM's operations, nor does Williams OVM have any such control over Chevron's operations, and there is no voting interest of one company in the other.

With respect to the third method of analyzing "common control"—looking at the "control relationship" this effectively captures the concept in the SEC guidance of "indirect" control. EPA has identified several factors that it considers, which include several that militate against aggregation here.

- EPA focuses on whether the facilities share common workforces, plant managers, security forces, corporate executive officers, or board of executives. They do not here.
- EPA also considers whether the facilities share common payroll activities, employee benefits, health plans, retirement funds, insurance coverage, or other administrative functions. They do not here as well.
- Another factor is whether the facilities share equipment, other property, or pollution control equipment. Here, they will not. Although the equipment at the Berger site may be co-located, it will not be shared. Moreover, it is important to recognize that this separately owned and operated equipment is to be located near to each other due to the space and other considerations discussed above, not for a control purpose.<sup>6</sup> It was Williams OVM's decision not to utilize a centralized gas gathering system, not Chevron's, that resulted in co-location. Thus, a common control interest is not present here as well.
- Yet another factor is whether the managing entity of one facility will be able to make decisions that affect pollution control at the other facility, and whether the facilities will share intermediates, products, byproducts, or other manufacturing equipment. Here, those factors are again not present—one will provide the service of gathering while the other produces.
- Finally, another factor that EPA has used at times is interdependence, though that factor distorts a traditional control analysis. Here, there will be separate responsibility for compliance with air quality control requirements and liability for any violations. Although contracts are in place for Williams OVM to handle gas for Chevron, Williams OVM expects, as opportunities arise, to receive gas from other producers in the future, and Chevron has preserved the right to have its gas gathered or processed by other facilities. Moreover, with respect to the gas and condensate gathering systems, as

<sup>&</sup>lt;sup>5</sup> Letter from Richard R. Long, USEPA Region 8, to Julie Wrend, Colorado Department of Public Health and the Environment, Re: Single Source Determination for Coors/TriGen (November 12, 1998) ("Long Letter").

<sup>&</sup>lt;sup>6</sup> Williams is installing at each site produced water tanks that it will own and operate (applications are pending or will be submitted to DAQ by Williams OVM). The drivers behind the request are operational and safety requirements, primarily as it relates to overpressure protection. To address process safety concerns, Williams OVM's produced water tanks will manage blowdown from the Williams OVM dehydration units.

## noted above, Chevron uses Ergon to bring condensate to market at this site and could do so as well at other sites.

Chevron alone is and will be responsible for any decisions to produce or shut-in wellhead facilities and will have no control over the equipment installed, owned, and operated by Williams OVM. Moreover, if a well is shut in, for example, Williams OVM could use its compression equipment to serve other wells in the area. These characteristics are not consistent with sources under common control.

It would therefore be erroneous for DAQ to conclude that, in the face of all the indications of lack of common control noted above, because Williams OVM's equipment is currently servicing only the Chevron wells, a de facto control relationship exists. Such a simplistic conclusion would be inappropriate in light of the complexities of this industry and the information provided in Section 1 above, where we explained that colocation is driven largely by footprint and other non-air quality regulatory issues. It is also important to recognize that a "source determination" cannot be a one-way street. In other words, it applies to all emissions units in a complete manner. Thus, if Williams is determined to be an independent source because of its ability to handle gas from multiple customers, then concomitantly, Chevron must also be a separate source. It is not reasonable for DAQ to determine that Source A, was independent of Source B because Source A could process gas from numerous producers while simultaneously determining that Source B must be aggregated with Source A because Source B may only send its product to Source A. Under the Clean Air Act, emissions units are either part of one stationary source or they are not. To conclude otherwise would require DAQ to continually determine how much of Source A's emissions must be allocated to Source B. This is a clear reason why the Colorado agency appropriately decided that the unique nature of oil and gas operations militated against aggregation in situations such as this where there are multiple operators related to gas and condensate with respect to gathering and production.

The above conclusion is further supported upon consideration of the terms of the Gas Gathering Agreement (GGA), which clearly indicate separate operations:

- The agreement was the byproduct of an arms-length transaction between unrelated parties.
- The GGA provides for the construction of a pipeline and ancillary equipment to gather the gas, which includes the compression and dehydration equipment Williams OVM needs to meet its contractual obligations. Because this equipment is part of the overall gas gathering system, and it is clear that the system overall should not be aggregated with the various wells, and treating this equipment separately from the system would be inappropriate.
- Chevron has the right to withdraw a well from the agreement if it determines it would be not be economical to use the Williams OVM gathering system and to use other means (including other pipelines) to move its gas.
- The GGA makes it clear that the location of the gathering equipment at the well site is for the convenience of the gatherer in constructing its gathering system and not for the producer's sake, explicitly indicating that the producer can reject the gatherer's location at the well site if there is not sufficient space.
- The GGA addresses commingling of gas from other producers subject to certain quality requirements, referencing "all sources in Gatherer's system," indicating that Williams OVM is not captive to Chevron in this situation and that a control relationship does not exist.

Indeed, a business relationship to achieve a the purpose of marketing gas between upstream and midstream should not dictate the conclusion of the control analysis, which relates not to whether one entity has agreed to enter a business relationship based on the distinct structure of the particular industry, but instead bears on whether one can dictate the other's operations. Here, there is no such control, and as noted above, Chevron

can obtain processing support from other entities and in fact uses another entity to process its condensate at the site. Williams OVM and Ergon are business partners not controlled entities. Moreover, if a support relationship should have any bearing at all on the aggregation analysis, it already factors into the SIC prong, which takes into consideration a common industrial purpose. It would be inappropriate to conflate the factors that were clearly meant to be separate by grafting a support-facility analysis onto the control prong.<sup>7</sup>

And, even if it were appropriate to graft onto the control-relationship analysis the support facility concept, any servicing guidelines must be viewed as only one factor among many in the control-relationship analysis. Other factors include the degree to which the primary activity exerts control over the supporting activity's operations, the nature of the agreements, the reasons for the support activity's presence on the same site as the primary activity, and even the market realities of the service relationship. Considering those factors here, the parties negotiated an arms-length arrangement, they do not have any operational or ownership control over each other's facilities, and each remains free to contract with other parties in the future.<sup>8</sup> In sum, there is no direct control and there should be no finding of indirect control between these parties.

#### **Determination**

For the above reasons, emissions from the Chevron production sources at the Berger site and from the Williams OVM gathering system equipment (*e.g.*, their compressors, dehydration units, and ancillary equipment) should not be aggregated for purposes of determining applicability of Clean Air Act Title I or Title V permitting programs or West Virginia's air permitting regulations. Even if the sources are at contiguous/adjacent property, these operations are separately owned and operated and are not under the control of the same person or persons under common control.

<sup>&</sup>lt;sup>8</sup> We understand that that DAQ- raised the issue of consistency with another source-specific, case-by-case determination, the Long Letter. We note that there are several distinguishing factors that make the Long Letter inapplicable here. First, the Long Letter is not a rulemaking, was a case-by-case determination, and is not binding on DAQ. Second, the facts in that case are distinct from those here. There, a power plant (previously owned by Coors) -had been sold to TriGen and was going to continue to -provide 100% of Coors power needs. In addition, -Coors was relying on the boiler for pollution control to meet its regulatory obligations under a consent decree settlement. That is not the case here. Williams OVM is not enabling Chevron to produce its gas. Chevron is producing the gas and needs to have it processed by another company, here, Williams OVM. That is entirely different from the integrated nature of the TriGen operation to the Coors operation. Third, as recognized by Colorado, considerations related to the oil and gas business are "unique and inherent" to that industry and do not necessarily establish a conclusion on the relationship between two facilities that might apply based on EPA guidance for other industrial sectors. In other words, it does not make sense to analyze the relationship between midstream and upstream oil and gas companies in the same manner that one would a power generator and a traditional manufacturing plant. Finally, the Colorado determination related to the Frederick Station was issued in 2011, more than a decade after the Long Letter, so DAQ can if it chooses, rely on that determination to distinguish the unique nature of this industry in making its determination.

CONSTRUCT	WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTIO DIVISION OF AIR QUALITY 601 57 <sup>th</sup> Street, SE Charleston, WV 25304 Phone: (304) 926-0475 • www.dep.wv.gov/daq ION I MODIFICATION RELOC.	A STAT	PLICATION FOR GENERAL PERMIT REGISTRATION INSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE TIONARY SOURCE OF AIR POLLUTANTS		
	CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:				
□       G20-B - Hot I         □       G30-D - Natu         □       G33-A - Spar	Preparation and Handling /lix Asphalt ral Gas Compressor Stations k Ignition Internal Combustion Engines ral Gas Compressor Stations (Flare/Glycol Dehydration		G40-C - Nonmetallic Minerals Processing         G50-B - Concrete Batch         G60-C - Class II Emergency Generator         G65-C - Class I Emergency Generator         G70-A - Class II Oil and Natural Gas Production Facility		
SECTION I. GENERAL INFORMATION					
1. Name of applicant (as registered with the WV Secretary of State's Office):		e):	2. Federal Employer ID No. (FEIN):		
Chevron Appalachia, LLC			25-0527925		
3. Applicant's mailing address: 700 Cherrington Parkway, Coraopolis Parkway, Coraopolis, PA 15108		4. Applicant's physical address: 2861 Roberts Ridge Road Moundsville, WV 26041			
5. If applicant is a subsidiary corporation, please provide the name of parent corporation: N/A					
<ul> <li>6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? YES NO</li> <li>IF YES, provide a copy of the Certificate of Incorporation/ Organization / Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A.</li> <li>IF NO, provide a copy of the Certificate of Authority / Authority of LLC / Registration (one page) including any name change amendments or other Business Certificate as Attachment A.</li> </ul>					
SECTION II. FACILITY INFORMATION					
7. The effected of failth (stationers) to be constant at the October of the basis of the AND of the Next Annals of the basis of the basis of the Annals of the Annals of the basis of the Annals of th					

<ul> <li>7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.):</li> <li>Class II Oil and Natural Gas Production Facility</li> </ul>	8a. Standard IndustrialAND8b. North American IndustryClassificationClassification (SIC) code: 1311System (NAICS) code: 211111	
9. DAQ Plant ID No. (for existing facilities only):	10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only):	
N/A	N/A	

A: PRIMARY OPERATING SITE INFORMATION				
11A. Facility name of primary operating site:	12A. Address of primary operating site:			
Berger Pad a Natural Gas Production Facility	Mailing: 700 Cherrington Parkway, Coraop	oolis Parkway, Coraopolis, PA 15108		
	Physical: 2861 Roberts Ridge Road, Moun	dsville, WV 26041		
13A. Does the applicant own, lease, have an option - IF YES, please explain: The	n to buy, or otherwise have control of the prop applicant leases the proposed site.	osed site? 🛛 YES 🗌 NO		
- IF <b>NO</b> , YOU ARE NOT ELIGIE	BLE FOR A PERMIT FOR THIS SOURCE.			
nearest state road;		irections to the present location of the facility from the site location from the nearest state road. Include a		
15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:		
Moundsville	Marshall	Northing (KM): <b>4,413.91</b> Easting (KM): <b>520.51</b> Zone: <b>17S</b>		
18A. Briefly describe the proposed new operation	or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Desimal Degrees to 5 digita):		
Chevron Appalachia, LLC is applying for a G70-A permit to authorize the construction of the Berger Pad A Natural Gas Production Facility.		Decimal Degrees to 5 digits): Latitude: <b>39.87502</b> Longitude: <b>-80.76021</b>		

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:
01/04/2016	04/01/2016
22. Provide maximum projected <b>Operating Schedule</b> of activity/activ other than 24/7/52 may result in a restriction to the facility's operation)	ities outlined in this application if other than 8760 hours/year. (Note: anything .
Hours per day24 Days per week7 Weeks	per year <u>52</u> Percentage of operation <u>100%</u>

#### SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate <b>application fee</b> (per 45CSR22 and 45CSR13).
24. Include a <b>Table of Contents</b> as the first page of your application package.
All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.
25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.
ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
ATTACHMENT B: PROCESS DESCRIPTION
X ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
ATTACHMENT D: PROCESS FLOW DIAGRAM
🛛 ATTACHMENT E: PLOT PLAN
🖾 ATTACHMENT F: AREA MAP
ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
ATTACHMENT I: EMISSIONS CALCULATIONS
ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
ATTACHMENT K: ELECTRONIC SUBMITTAL
X ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
X ATTACHMENT M: SITING CRITERIA WAIVER
🖾 ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (SDS)
X ATTACHMENT O: EMISSIONS SUMMARY SHEETS
In the supporting documentation not described Above (Equipment Drawings, Aggregation Discussion, etc.)
(NOT APPLICABLE)
Please mail an original and two conies of the complete General Permit Registration Application with the signature(s) to the DAO Permitting Section at

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION
This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.
FOR A CORPORATION (domestic or foreign)         I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation
FOR A PARTNERSHIP I certify that I am a General Partner
FOR A LIMITED LIABILITY COMPANY I certify that I am a General Partner or General Manager
FOR AN ASSOCIATION I certify that I am the President or a member of the Board of Directors
FOR A JOINT VENTURE I certify that I am the President, General Partner or General Manager
FOR A SOLE PROPRIETORSHIP         I certify that I am the Owner and Proprietor
☐ I hereby certify that (please print or type)
I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible
Signature 9-12-15 (please use blue ink) Responsible Official Date
Name & Title <u>Gary Orr, Appalachia Area Manager for Chevron Appalachia, LLC</u>
Signature
Applicant's Name Chevron Appalachia, LLC
Phone & Fax
Email Amy.McGreevy@chevron.com

### **Table of Contents**

- ATTACHMENT A BUSINESS CERTIFICATE
- ATTACHMENT B PROCESS DESCRIPTION
- ATTACHMENT C DESCRIPTION OF FUGITIVE EMISSIONS
- ATTACHMENT D PROCESS FLOW DIAGRAM
- ATTACHMENT E PLOT PLAN
- ATTACHMENT F AREA MAP
- ATTACHMENT G EMISSION UNIT DATA SHEETS AND G-70 APPLICABILITY FORM
- ATTACHMENT H AIR POLLUTION CONTROL DEVICE
- ATTACHMENT I EMISSION CALCULATIONS
- ATTACHMENT J PUBLIC NOTICE
- ATTACHMENT K ELECTRONIC SUBMITTAL
- ATTACHMENT L APPLICATION FEE
- ATTACHMENT M SITING CRITERIA WAIVER
- ATTACHMENT N MATERIAL SAFETY DATA SHEET (MSDS)
- ATTACHMENT O EMISSIONS SUMMARY SHEET

OTHER SUPPORTING DOCUMENTS NOT DESCRIBED ABOVE

Attachment A Business Certificate



## I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

the attached true and exact copy of the Articles of Amendment to the Articles of Organization of

### ATLAS AMERICA, LLC

are filed in my office, signed and verified, as required by the provisions of West Virginia Code §31B-2-204 and conform to law. Therefore, I issue this

## CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the limited liability company to

## **CHEVRON APPALACHIA, LLC**



Given under my hand and the Great Seal of the State of West Virginia on this day of April 28, 2011

Vlaterie E. Yuman

Secretary of State



Natalie E. Tennant Secretary of State 1900 Kanawha Blvd E. Bldg 1, Suite 157-K Charleston, WV 25305



Penney Barker, Manager Corporations Division Tel: (304)558-8000 Fax: (304)558-8381 <u>WWW.WYSOS.com</u> Hrs: 8:30 a.m. – 5:00 p.m. ET

FILE ONE ORIGINAL (Two if you want a filed stamped copy returned to you) FEE: \$25.00

### WV APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY OF A LIMITED LIABILITY COMPANY

In accordance with the provisions of the West Virginia Code, the undersigned limited liability company hereby applies for an Amended Certificate of Authority and submits the following statement:

		Atlas America, LLC	
Date Certificate of Autho issued in West Virginia:	rity was	03/08/2007	
Change of Name Informa in the home state)	ation or Text of A	Amendment: (Attach one	certified copy of the name change as filed
Change of name from:	Atlas America,		·
To:	Chevron Appala	achia, LLC	
		V:	FILED
Other amendment (use additional pages if		f necessary)	APR 28 2011
	<u></u>		IN THE OFFICE OF SECRETARY OF STATE
	authorized to transact bus Date Certificate of Autho issued in West Virginia: Change of Name Informa in the home state) Change of name from: To: Name the organization el (Due to home state name not	Change of Name Information or Text of A in the home state)Change of name from:Atlas America, Atlas America, Chevron AppalaTo:Chevron AppalaName the organization elects to use in W (Due to home state name not being available)	Name the organization was authorized to transact business in WV:         Date Certificate of Authority was issued in West Virginia:         03/08/2007         Change of Name Information or Text of Amendment: (Attach one in the home state)         Change of name from:         Atlas America, LLC         To:       Chevron Appalachia, LLC         Name the organization elects to use in WV:

4. Contact name and number to reach in case of a problem with filing: (optional, however, listing one may help to avoid a return or rejection of filing if there is a problem with the document)

300-927-9801 x2207		
Phone Number		

Business e-mail address, if any: jsuarez@cscinfo.com

5. Signature of person executing document:

Assistant Secretary

Title/Capacity (Example: member, manager, etc.) Attachment B Process Description

## Attachment B Process Description

This permit application is being filed by Chevron Appalachia, LLC (Chevron) and addresses operational activities associated with the Berger Pad A natural gas production site. Incoming raw natural gas from the wells enters the site through a pipeline. The raw gas is first routed through a line heater (BAP-0110, BAP-0210, BAP-0410, BAP-0510, BAP-0610, BAP-0810, BAP-0910, BAP-1010) to assist with the phase separation process in the downstream three-phase separator (MBD-0120, MBD-0220, MBD-0420, MBD-0520, MBD-0620, MBD-0820, MBD-0920, MBD-1020). In the separators, produced water is removed from the raw gas and transferred to the produced water tank and test tanks (ABJ-0011A, ABJ-0011B, ABJ-0011C, ABJ-0011D, ABJ-0014). Produced water flows from the separators to the test tank, where the tank acts as a separator. From the test tank, produced water flows to the four (4) produced water tanks.

Condensate is removed from the raw gas in the separators and is transferred to the condensate flash vessel (MBD-0040). The condensate is routed through a line heater (BAP-0012) prior to the condensate flash vessel to aid in fluid separation. At these pressure and temperature conditions, light hydrocarbon constituents volatilize within the condensate flash vessel and are directed to the gas compression units (CBA-0050, CBA-1050). The permanent flash gas compressor (CBA-0050) will be an electric engine that will not generate emissions of regulated air pollutants. In order to handle the initial influx of fluids and associated volatilized hydrocarbons, Chevron Appalachia, LLC is proposing to install a second, temporary natural gas-fired flash gas compressor engine. The gas compressors increase the pressure of the recovered gas and are pumped into the natural gas sales line. The remaining condensate fluid flows from the condensate flash vessel to a condensate sales line. Two (2) electric condensate pumps are used to lift the condensate through the condensate sales line.

From the phase separators, natural gas flows to the downstream sales pipeline. Emissions from the produced water and test tanks are directed to the electric vapor recovery unit (CBA-0055). As a second stage of compression, tank vapors are routed to the flash gas compressors and into the gas sales line. From the storage tanks, the produced water and blowdown fluids are pumped into tank trucks on an as needed basis and are disposed of off-site. Vapors from the unloading of the tanks are directed to a vent stack (ZZZ-0011) and released to atmosphere. Emissions realized during VRU downtime, blowdown events, and emergency vents from the tanks located at the Berger Pad A Site are also directed to the vent stack.

Various control systems are used at the site to monitor and regulate temperature, flow, and pressure. Other sources of emissions at the production site include fugitive component leaks and maintenance blowdowns.

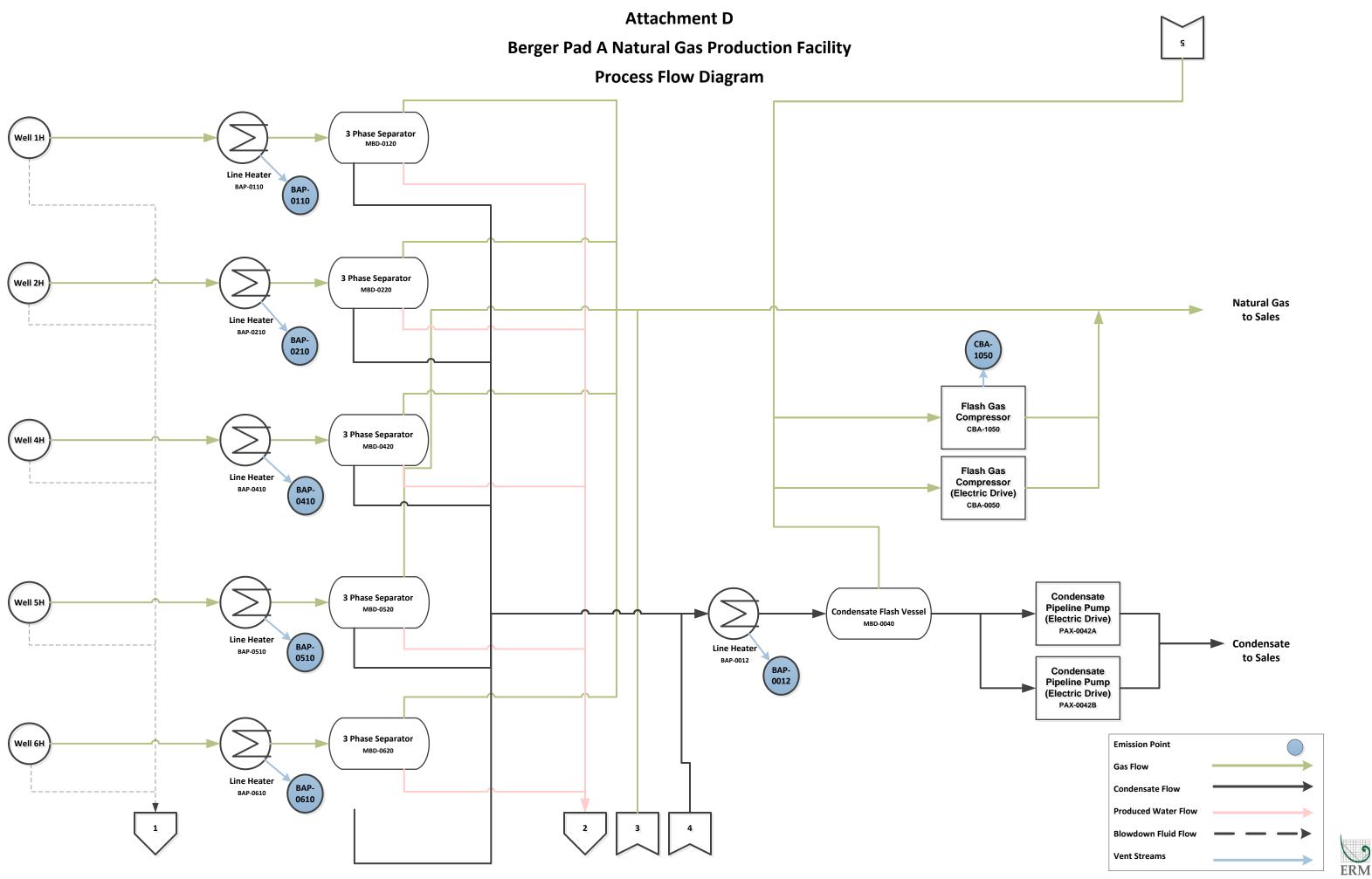
A process flow diagram is included as Attachment D.

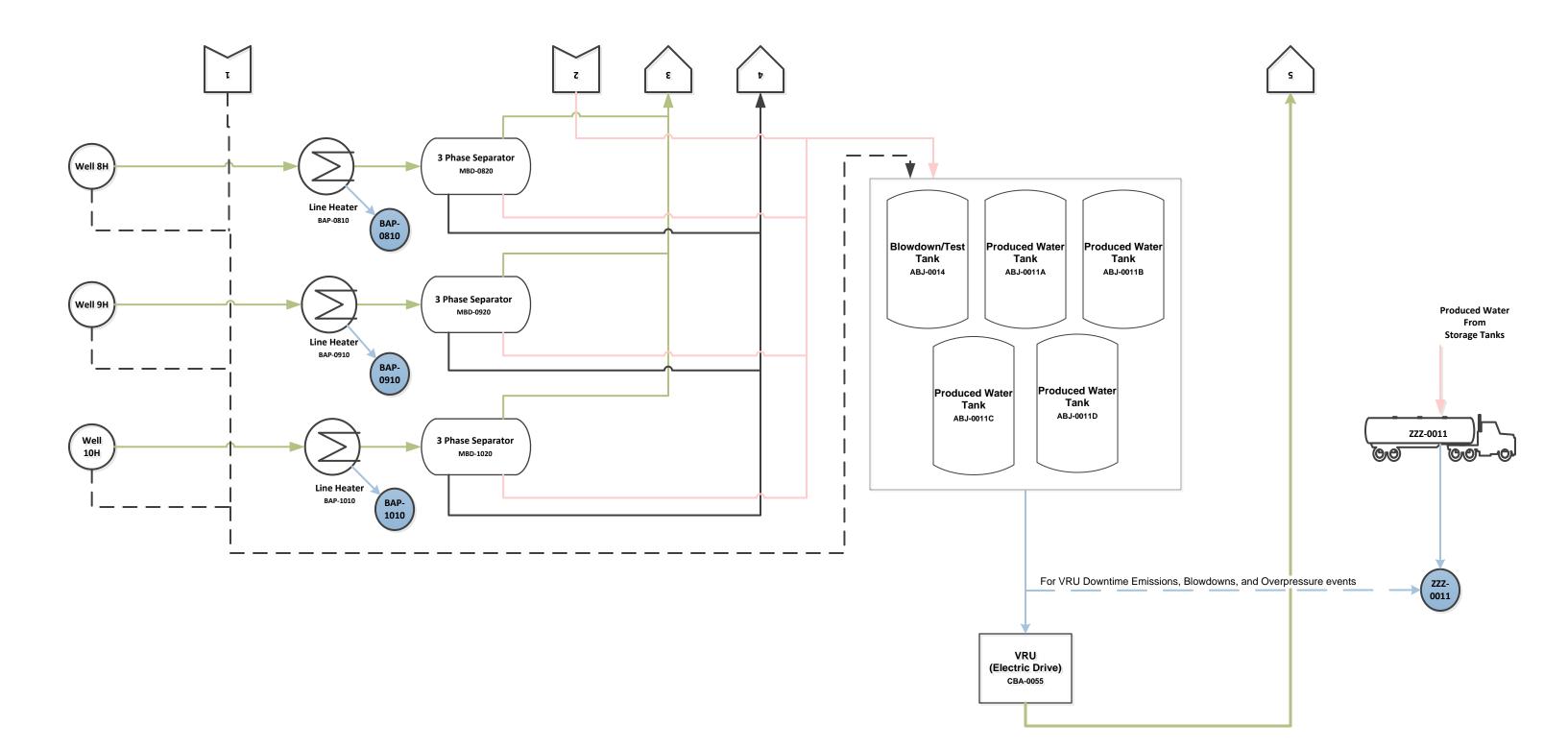
Attachment C Description of Fugitive Emissions

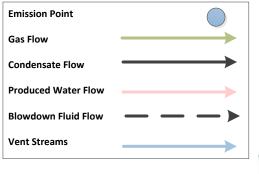
## Attachment C G70-A General Permit Description of Fugitive Emissions

This permit application is being filed for Chevron Appalachia, LLC (Chevron) and addresses operational activities associated with the Berger Pad A natural gas production site. Fugitive emissions on the site are generated from a number of sources, including an unpaved haul road, equipment leaks, and emissions from blowdown operations conducted prior to completing maintenance activities. These fugitive emission sources cannot readily be controlled by air pollution control devices. Pneumatic devices on site will be operated by an electric air compressor and will not have associated gas emissions. Emission levels for fugitive emissions were calculated using AP-42 emission factors, results from ProMax simulation runs, and 40 CFR 98 Subpart W factors and equipment counts. A summary of the fugitive emissions on the Berger natural gas production site can be found in Attachment O – Emissions Summary Sheet.

# Attachment D Process Flow Diagram

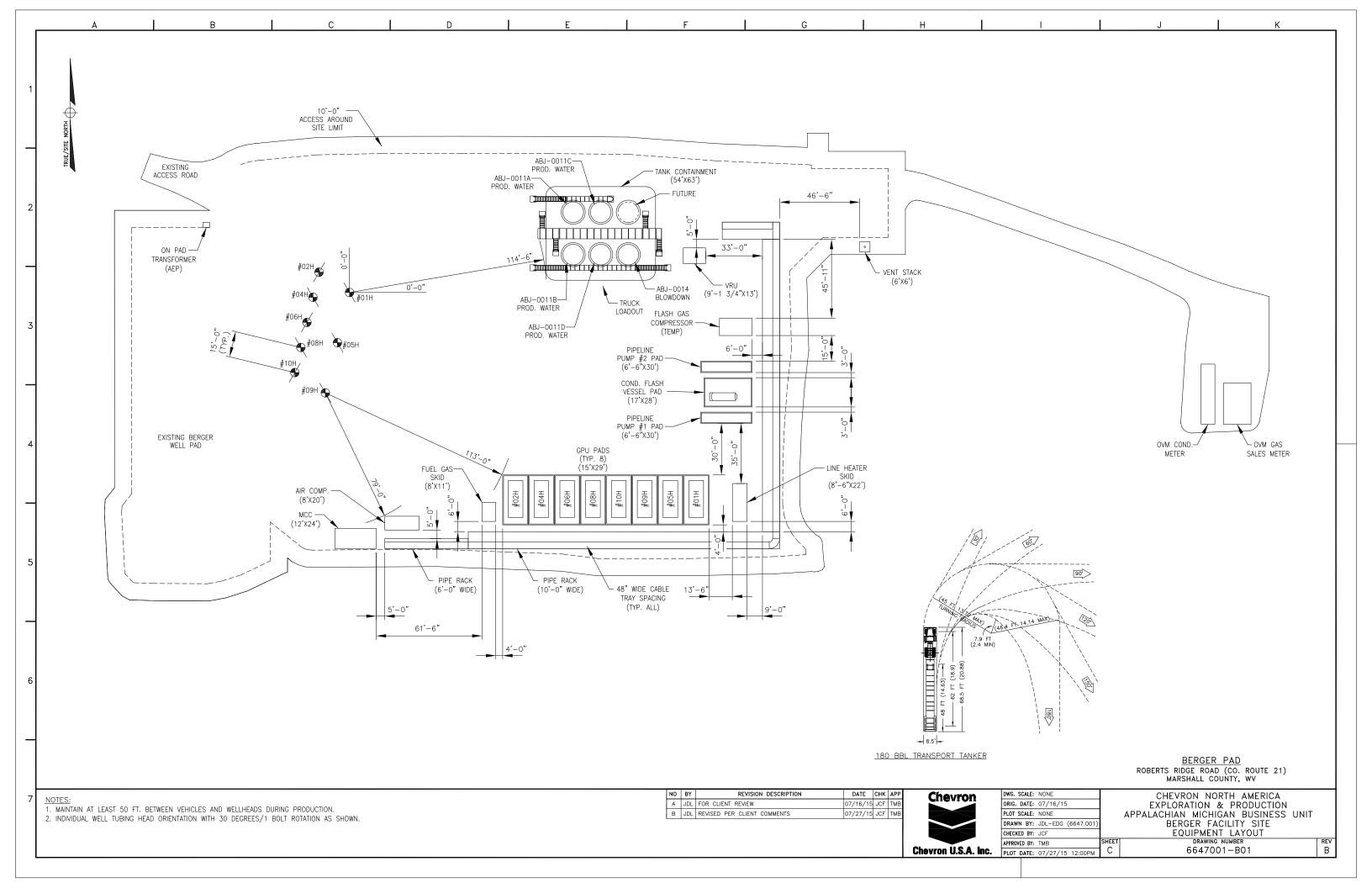




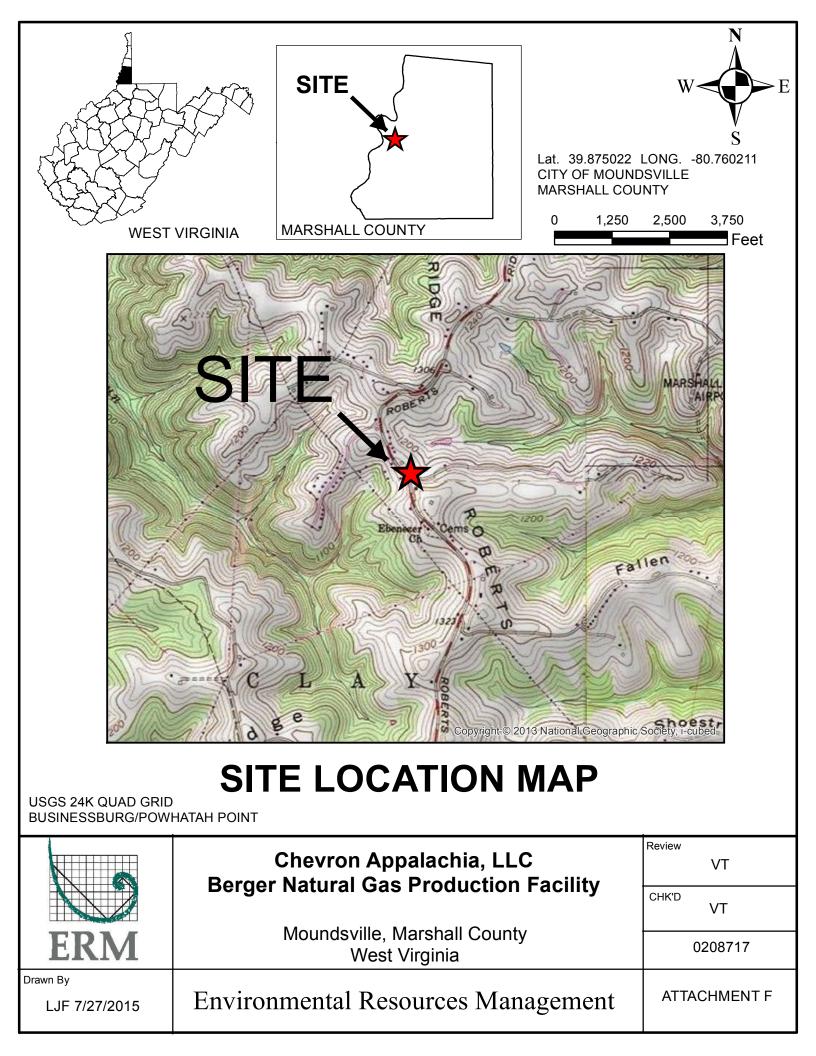




Attachment E Plot Plan



Attachment F Area Map



## Attachment G

## **Emission Unit Data Sheets and G-70 Applicability Form**

#### General Permit G70-A Registration Section Applicability Form

General Permit G70-A was developed to allow qualified applicants to seek registration for a variety of sources. These sources include natural gas well affected facilities, storage tanks, natural gas-fired compressor engines (RICE), natural gas producing units, natural gas-fired inline heaters, pneumatic controllers, heater treaters, tank truck loading, glycol dehydration units, completion combustion devices, flares, enclosed combustion devices, and vapor recovery systems. All registered facilities will be subject to Sections 1.0, 2.0, 3.0, and 4.0.

General Permit G70-A allows the registrant to choose which sections of the permit they are seeking registration under. Therefore, please mark which additional sections that you are applying for registration under. If the applicant is seeking registration under multiple sections, please select all that apply. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

Section 5	Natural Gas Well Affected Facility	$\boxtimes$
Section 6	Storage Vessels*	$\boxtimes$
Section 7	Gas Producing Units, In-Line Heaters, Heater Treaters, and Glyco	1
	Dehydration Reboilers	$\boxtimes$
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	
Section 9	Reserved	
Section 10	Natural gas-fired Compressor Engine(s) (RICE) **	$\boxtimes$
Section 11	Tank Truck Loading Facility ***	$\boxtimes$
Section 12	Standards of Performance for Storage Vessel Affected Facilities	
	(NSPS, Subpart OOOO)	$\boxtimes$
Section 13	Standards of Performance for Stationary Spark Ignition Internal	
	Combustion Engines (NSPS, Subpart JJJJ)	
Section 14	Control Devices not subject to NSPS, Subpart OOOO	
Section 15	National Emissions Standards for Hazardous Air Pollutants	
	for Stationary Reciprocating Internal Combustion Engines	
	(40CFR63, Subpart ZZZZ)	$\boxtimes$
Section 16	Glycol Dehydration Units	
Section 17	Dehydration Units With Exemption from NESHAP Standard,	
	Subpart HH § 63.764(d) (40CFR63, Subpart HH)	
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH	
	and Not Located Within an UA/UC (40CFR63, Subpart HH)	
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH	
	and Located Within an UA/UC (40CFR63, Subpart HH)	

\* Applicants that are subject to Section 6 may also be subject to Section 12 if the applicant is subject to the NSPS, Subpart OOOO control requirements or the applicable control device requirements of Section 14.

\*\* Applicants that are subject to Section 10 may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

\*\*\* Applicants that are subject to Section 11 may also be subject to control device requirements of Section 14.

### ATTACHMENT G NATURAL GAS WELL AFFECTED FACILITY DATA SHEET

Complete this data sheet if you are the owner or operator of a gas well affected facility for which construction, modification, or reconstruction commenced after August 23, 2011. This form must be completed for natural gas well affected facilities regardless of when flowback operations occur (or have occurred).

Please provide the API numb	per(s) for each NG well at this facility:
Berger 1H = 47-051-01702	
Berger 2H = 47-051-01703	
Berger 4H = 47-051-01704	
Berger 5H = 47-051-01705	
Berger 6H = 47-051-01706	
Berger 6H = 47-051-01707	
Berger 7H = 47-051-01708	
Berger 8H = 47-051-01709	

Note: This is the same API well number(s) provided in the well completion notification and as provided to the WVDEP, Office of Oil and Gas for the well permit. The API number may be provided on the application without the state code (047).

Every oil and gas well permitted in West Virginia since 1929 has been issued an API (American Petroleum Institute) number. This API is used by agencies to identify and track oil and gas wells.

The API number has the following format: 047-001-00001

Where, 047 = State code. The state code for WV is 047. 001 = County Code. County codes are odd numbers, beginning with 001 (Barbour) and continuing to 109 (Wyoming). 00001= Well number. Each well will have a unique well number.

# Attachment G Emission Source Data Sheets

### **Emission Units Table**

### (includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission	Emission	Emission Unit Description	Year	Design	Type <sup>3</sup> and	Control
Unit ID <sup>1</sup>	Point ID <sup>2</sup>		Installed/	Capacity	Date of	Device <sup>4</sup>
			Modified		Change	
ABJ-0011A	ABJ-0011A	Produced Water Tank	2015	400 bbl each	New	CBA-0055
ABJ-0011B	ABJ-0011B	Produced Water Tank	2015	400 bbl each	New	CBA-0055
ABJ-0011C	ABJ-0011C	Produced Water Tank	2015	400 bbl each	New	CBA-0055
ABJ-0011D	ABJ-0011D	Produced Water Tank	2015	400 bbl each	New	CBA-0055
ABJ-0014	ABJ-0014	Test Tank	2015	400 bbl each	New	CBA-0055
CBA-1050	CBA-1050	Flash Gas Compressor	2015	625 hp	New	NSCR
BAP-0110	BAP-0110	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0210	BAP-0210	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0410	BAP-0410	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0510	BAP-0510	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0610	BAP-0610	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0810	BAP-0810	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0910	BAP-0910	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-1010	BAP-1010	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
BAP-0012	BAP-0012	GPU Line Heater	2015	1.25 MMBtu/hr	New	NA
ZZZ-0011A	ZZZ-0011A	Tank Unloading Events	2015	140,406 gal/day	New	NA
ZZZ-0011B	ZZZ-0011B	Tank Unloading Events	2015	140,406 gal/day	New	NA
ZZZ-0011C	ZZZ-0011C	Tank Unloading Events	2015	140,406 gal/day	New	NA
CBA-0055	CBA-0055	Vapor Recovery Unit (Electric Drive)	2015	NA	New	NA

\*Three (3) separate connections are proposed on the Berger Pad A Site for Tank Unloading Events. The emissions from these three (3) connections have been calculated as the total fluid throughput of the Site and are being represented as one emission point.

### NATURAL GAS FIRED FUEL BURNING UNITS EMISSION DATA SHEET

Complete the information on this data for each Gas Producing Unit(s), Heater Treater(s), and in-line heater(s) at the production pad. Reboiler information should be entered on the Glycol Dehydration Emission Unit Data Sheet.

Emission Unit ID # <sup>1</sup>	Emission Point ID# <sup>2</sup>	Emission Unit Description (Manufacturer / Model #)	Year Installed/ Modified	Type <sup>3</sup> and Date of Change	Control Device	Design Heat Input (mmBtu/hr) <sup>5</sup>	Fuel Heating Value (Btu/scf) <sup>6</sup>
BAP-0110	BAP-0110	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0210	BAP-0210	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0410	BAP-0410	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0510	BAP-0510	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0610	BAP-0610	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0810	BAP-0810	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0910	BAP-0910	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-1010	BAP-1010	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0012	BAP-0012	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285

# NATURAL GAS-FIRED COMPRESSOR ENGINE (RICE) EMISSION UNIT DATA SHEET

Emission Ur	nit (Source) ID No. <sup>1</sup>	CBA-1050						
Emissio	CBA-1050							
Engine Manu	ufacturer and Model		CATERPILLAR G398TA					
Manufacture	er's Rated bhp/rpm			625 /	1200			
	rce Status <sup>3</sup>				IS			
	l/Modified/Removed <sup>4</sup>			20	)15			
	ctured/Reconstruction Date <sup>5</sup>			Prior to Ju	ne 12, 2006			
JJJJ?	ect to 40CFR60, Subpart			Ν	lo			
Engine according JJJJ? (Yes or No)				Ν	lo			
Is this engine subj ZZZZ? (yes or no)	ect to 40CFR63, Subpart			Y	es			
	Engine Type <sup>7</sup>	RB4S						
	APCD Type <sup>8</sup>	Catalyst						
	Fuel Type <sup>9</sup>	PQ						
Engine, Fuel and	H <sub>2</sub> S (gr/100 scf)							
Combustion Data	Operating bhp/rpm	625 / 1200						
	BSFC (Btu/bhp-hr)			7,7	791			
	Fuel throughput (ft <sup>3</sup> /hr)			4,77	/3.90			
	Fuel throughput (MMft <sup>3</sup> /yr)			41	.82			
	Operation (hrs/yr)			8,7	760			
Reference <sup>10</sup>	Potential Emissions <sup>11</sup>	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	
	NO <sub>X</sub>	0.28	1.21					
	СО	0.41	1					
	VOC	0.28	1.21					
	SO <sub>2</sub>	0.003	0.01					
	PM <sub>Filterable</sub>	0.05	0.20					
	PMcondensable	0.05	0.21					
	Formaldehyde	0.10	0.44					

Complete this section for any natural gas-fired reciprocating internal combustion engine.

MRR <sup>12</sup>	Proposed Monitoring:	Chevron Appalachia, LLC will comply will all monitoring requirements outlined in the G70-A Permit.
	Proposed Recordkeeping:	Chevron Appalachia, LLC will comply will all recordkeeping requirements outlined in the G70-A Permit.
	Proposed Reporting:	Chevron Appalachia, LLC will comply will all reporting requirements outlined in the G70-A Permit.

#### Instructions for completing the Engine Emission Unit Data Sheet:

- <sup>1</sup> Enter the appropriate Emission Unit (<u>S</u>ource) identification number for each natural gas-fueled reciprocating internal combustion compressor/generator engine located at the production pad. Multiple compressor engines should be designated CE-1<u>S</u>, CE-2<u>S</u>, etc. or other appropriate designation. Generator engines should be designated GE-1<u>S</u>, GE-2<u>S</u>, etc. or other appropriate designation. If more than three (3) engines exist, please use additional sheets.
- <sup>2</sup> For Emission Points, use the following numbering system: 1E, 2E, etc. or other appropriate designation.
- <sup>3</sup> Enter the Source Status using the following codes: NS = Construction of New Source (installation); ES = Existing Source; MS = Modification of Existing Source; and RS = Removal of Source
- <sup>4</sup> Enter the date (or anticipated date) of the engine's installation (construction of source), modification or removal.
- <sup>5</sup> Enter the date that the engine was manufactured, modified or reconstructed.
- <sup>6</sup> Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart JJJJ. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4243a(2)(i) through (iii), as appropriate. *Provide a manufacturer's data sheet for all engines being registered and a manufacturer's EPA certification of conformity sheet.*
- <sup>7</sup> Enter the Engine Type designation(s) using the following codes: LB2S = Lean Burn Two Stroke, RB4S = Rich Burn Four Stroke, and LB4S =Lean Burn Four Stroke.
- <sup>8</sup> Enter the Air Pollution Control Device (APCD) type designation(s) using the following codes: NSCR = Rich Burn & Non-Selective Catalytic Reduction, PSC = Rich Burn & Prestratified Charge, SCR = Lean Burn & Selective Catalytic Reduction, or CAT = Lean Burn & Catalytic Oxidation
- <sup>9</sup> Enter the Fuel Type using the following codes: PQ = Pipeline Quality Natural Gas, or RG = Raw Natural Gas
- <sup>10</sup> Enter the Potential Emissions Data Reference designation using the following codes. Attach all referenced data to this
- <sup>11</sup> Enter each engine's Potential to Emit (PTE) for the listed regulated pollutants in pounds per hour and tons per year. PTE shall be calculated at manufacturer's rated brake horsepower and may reflect reduction efficiencies of listed Air Pollution Control Devices. Emergency generator engines may use 500 hours of operation when calculating PTE. PTE data from this data sheet shall be incorporated in the *Emissions Summary Sheet as Attachment O*.
- <sup>12</sup> Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the operation of this engine operation and associated air pollution control device. Include operating ranges and maintenance procedures required by the manufacturer to maintain the warranty.

## Attachment G EMISSIONS UNIT DATA SHEET STORAGE TANKS

Provide the following information for <u>each</u> new or modified bulk liquid storage tank as shown on the *Equipment List Form* and other parts of this application. A tank is considered modified if the material to be stored in the tank is different from the existing stored liquid.

IF USING US EPA'S TANKS EMISSION ESTIMATION PROGRAM (AVAILABLE AT <u>www.epa.gov/tnn/tanks.html</u>), APPLICANT MAY ATTACH THE SUMMARY SHEETS IN LIEU OF COMPLETING SECTIONS III, IV, & V OF THIS FORM. HOWEVER, SECTIONS I, II, AND VI OF THIS FORM MUST BE COMPLETED. US EPA'S AP-42, SECTION 7.1, "ORGANIC LIQUID STORAGE TANKS," MAY ALSO BE USED TO ESTIMATE VOC AND HAP EMISSIONS (<u>http://www.epa.gov/tnn/chief/</u>).

#### I. GENERAL INFORMATION (required)

1. Bulk Storage Area Name	2. Tank Name					
Berger Pad A Produced Water Tank Battery	Test Tank					
<ol> <li>Tank Equipment Identification No. (as assigned on Equipment List Form)</li> <li>ABJ-0014</li> </ol>	<ol> <li>Emission Point Identification No. (as assigned on Equipment List Form)</li> <li>ZZZ-0011</li> </ol>					
5. Date of Commencement of Construction (for existing	tanks) <b>2015</b>					
6. Type of change 🛛 New Construction 🗌 🛚	New Stored Material					
7. Description of Tank Modification (if applicable)						
NA						
7A. Does the tank have more than one mode of operation (e.g. Is there more than one product stored in the tan						
<ol> <li>If YES, explain and identify which mode is covere completed for each mode).</li> </ol>	ed by this application (Note: A separate form must be					
	er during normal operations. When maintenance routed to this tank and emissions are realized at the dress the maintenance blowdown events.					
7C. Provide any limitations on source operation affecting variation, etc.):	emissions, any work practice standards (e.g. production					
NA						
	ATION (required)					
<ol> <li>Design Capacity (specify barrels or gallons). Use height.</li> <li>400 bbls</li> </ol>	height.					
9A. Tank Internal Diameter (ft)	9B. Tank Internal Height (or Length) (ft)					
12	20					
10A. Maximum Liquid Height (ft)	10B. Average Liquid Height (ft)					
19.5	10					
11A. Maximum Vapor Space Height (ft)	11B. Average Vapor Space Height (ft)					
18.3	10					
<ol> <li>Nominal Capacity (specify barrels or gallons). This is also known as "working volume" and considers design liquid levels and overflow valve heights.</li> <li>400 bbls</li> </ol>						

13A. Maximum annual throughput (gal/yr)	13B. Maximum daily throughput (gal/day)			
50,021,790	137,046			
14. Number of Turnovers per year (annual net throughput/maximum tank liquid volume)				
	2,978			
15. Maximum tank fill rate (gal/min) 95				
16. Tank fill method Submerged	Splash Bottom Loading			
17. Complete 17A and 17B for Variable Vapor Space Ta	nk Systems 🛛 Does Not Apply			
17A. Volume Expansion Capacity of System (gal)	17B. Number of transfers into system per year			
NA	NA			
<ul> <li>18. Type of tank (check all that apply):</li> <li></li></ul>				
Domed External (or Covered) Floating Roof				
Internal Floating Roof vertical column su				
☐ Variable Vapor Space lifter roof				
Pressurizedsphericalcylindrica	1			
Other (describe)				
	ATION (optional if providing TANKS Summary Sheets)			
19. Tank Shell Construction:	Anon (optional in providing "Arrive Summary Sheets)			
Riveted Gunite lined Epoxy-coate	d rivets 🛛 Other (describe) <b>Welded</b>			
20A. Shell Color Dark Green 20B. Roof Colo	r Dark Green 20C. Year Last Painted 2015			
21. Shell Condition (if metal and unlined):				
🔄 🗌 No Rust 🔄 Light Rust 🔄 Dense R	ust 🛛 Not applicable			
22A. Is the tank heated? $\Box$ YES $\boxtimes$ NO				
22B. If YES, provide the operating temperature (°F)				
22C. If YES, please describe how heat is provided to t	ank.			
23. Operating Pressure Range (psig): 0.031 to 1				
24. Complete the following section for Vertical Fixed Ro	of Tanks Does Not Apply			
24A. For dome roof, provide roof radius (ft) 6				
24B. For cone roof, provide slope (ft/ft) <b>NA</b>				
25. Complete the following section for Floating Roof Ta	nks 🛛 Does Not Apply			
25A. Year Internal Floaters Installed:				
25B.    Primary Seal Type:    Image: Metallic (Mechanical)      (check one)    Image: Vapor Mounted Residence				
25C. Is the Floating Roof equipped with a Secondary	Seal? YES NO			
25D. If YES, how is the secondary seal mounted? (che	eck one) Shoe Rim Other (describe):			
25E. Is the Floating Roof equipped with a weather shi	eld? YES NO			

25F. Describe deck fittings; indicate the number of each type of fitting:						
	ACCESS	S НАТСН				
BOLT COVER, GASKETED:	UNBOLTED COVI	ER, GASKETED:	UNBOLTED UNGASKETED:	COVER,		
	AUTOMATIC GAL	JGE FLOAT WELL	1			
BOLT COVER, GASKETED:	UNBOLTED COVI		UNBOLTED	COVER,		
			UNGASKETED:			
	COLUM	N WELL	1			
BUILT-UP COLUMN – SLIDING COVER, GASKETED:	BUILT-UP COLL COVER, UNGASK		PIPE COLUMN – FABRIC SLEEVE SEAL	FLEXIBLE		
		R WELL	<u>}</u>			
PIP COLUMN – SLIDING COVER, G			SLIDING COVER, UNGA	SKETED:		
	GAUGE-HATCH	/ /SAMPLE PORT				
SLIDING COVER, GASKETED:		SLIDING COVER,	UNGASKETED:			
	ROOF LEG OR	HANGER WELL				
WEIGHTED MECHANICAL	WEIGHTED	MECHANICAL	SAMPLE WELL-SLIT FA	BRIC SEAL		
ACTUATION, GASKETED:	ACTUATION, UNG	GASKETED:	(10% OPEN AREA)			
	VACUUM	BREAKER	1			
WEIGHTED MECHANICAL ACTUAT			MECHANICAL A	CTUATION,		
	,	UNGASKETED:				
	RIM	VENT				
WEIGHTED MECHANICAL ACTUAT	ION GASKETED:	WEIGHTED UNGASKETED:	MECHANICAL A	CTUATION,		
		UNUAUNE TED.				
	DECK DRAIN (3-I	NCH DIAMETER)				
OPEN:	- (-	90% CLOSED:				
	STUB	DRAIN				
1-INCH DIAMETER:						
OTHER (DESCRIBE, ATTACH ADDITIONAL PAGES IF NECESSARY)						

26. Complete the following section for Internal Floating Roof Tanks 🛛 🖾 Does Not Apply					
26A. Deck Type: 🗌 Bolted 🗌 We	lded				
26B. For Bolted decks, provide deck constru	ction:				
26C. Deck seam:					
Continuous sheet construction 5 feet wie Continuous sheet construction 6 feet wie					
Continuous sheet construction 7 feet with	de				
<ul> <li>Continuous sheet construction 5 × 7.5 fe</li> <li>Continuous sheet construction 5 × 12 fe</li> </ul>					
Other (describe)					
		<u> </u>			
26D. Deck seam length (ft)		ea of deck (ft <sup>2</sup> )			
For column supported tanks: 26F. Number of columns:	26G. Dia	ameter of each column:			
IV. SITE INFORMANTION	l (optional if providing T	ANKS Summary Sheets)			
27. Provide the city and state on which the data					
Charleston, WV					
28. Daily Average Ambient Temperature (°F) 7	′0 °F				
29. Annual Average Maximum Temperature (°F	<sup>-</sup> ) 65.5 °F				
30. Annual Average Minimum Temperature (°F	)44.0 °F				
31. Average Wind Speed (miles/hr) 18 mph					
32. Annual Average Solar Insulation Factor (BT	⁻U/(ft²⋅day)) <b>1,123</b>				
33. Atmospheric Pressure (psia) 14.70					
V. LIQUID INFORMATION	(optional if providing 7	ANKS Summary Sheets)			
34. Average daily temperature range of bulk liq	uid: Ambient				
34A. Minimum (°F) <b>NA</b>	34B. Ma	iximum (°F) <b>NA</b>			
35. Average operating pressure range of tank:	0.52 psig				
35A. Minimum (psig) NA	35B. Ma	aximum (psig) NA			
36A. Minimum Liquid Surface Temperature (	(°F) 36B. Co	rresponding Vapor Pressure (p	sia)		
NA	NA				
37A. Average Liquid Surface Temperature (		rresponding Vapor Pressure (p	sia)		
NA           38A.         Maximum Liquid Surface Temperature	(°E) 288 Co		veia)		
NA					
39. Provide the following for each liquid or gas	to be stored in tank.	Add additional pages if necessa	ary.		
39A. Material Name or Composition	Produced Water				
39B. CAS Number	NA				
39C. Liquid Density (lb/gal)	8.35				
39D. Liquid Molecular Weight (lb/lb-mole)	18.02				
39E. Vapor Molecular Weight (lb/lb-mole)	18.02				

Maximum Vapor Pressure	NA							
39F. True (psia)	NA							
<u>39G. Reid (psia)</u> Months Storage per Year	NA							
39H. From	January							
39I. To	December							
	VI. EMISSIONS AND CONTROL DEVICE DATA (required)							
40. Emission Control Devices (check as many as apply):								
Carbon Adsorption <sup>1</sup>								
Condenser <sup>1</sup>								
Conservation Vent (psig)								
Vacuum Setting	Pressure S	etting						
Emergency Relief Valve (psig)								
Inert Gas Blanket of								
Insulation of Tank with								
Liquid Absorption (scrubber) <sup>1</sup>								
Refrigeration of Tank								
Rupture Disc (psig)								
$\Box$ Vent to Incinerator <sup>1</sup>								
Other <sup>1</sup> (describe): Vapor Recovery Ur	nit							
<sup>1</sup> Complete appropriate Air Pollution Contr								
41. Expected Emission Rate (submit Test Dat		or elsewhere in the app	lication).					
Material Name & Breathing Loss	Working Loss	Annual Loss						
CAS No. (lb/hr)	Amount Units	(lb/yr)	Estimation Method <sup>1</sup>					
*See calcul	ations included in At	tachment I.						
*For emission calculation purposes, the total throughput is assumed to go through each produced water tank, ABJ-0011A, ABJ-0011B, ABJ-0011C, ABJ-0011D. Therefore, annual emission rates are not additive. Actual throughput for each tank will vary based on operations.								

 $^{1}$  EPA = EPA Emission Factor, MB = Material Balance, SS = Similar Source, ST = Similar Source Test, Throughput Data, O = Other (specify)

Remember to attach emissions calculations, including TANKS Summary Sheets if applicable.

### Attachment G EMISSIONS UNIT DATA SHEET STORAGE TANKS

Provide the following information for <u>each</u> new or modified bulk liquid storage tank as shown on the *Equipment List Form* and other parts of this application. A tank is considered modified if the material to be stored in the tank is different from the existing stored liquid.

IF USING US EPA'S TANKS EMISSION ESTIMATION PROGRAM (AVAILABLE AT <u>www.epa.gov/tnn/tanks.html</u>), APPLICANT MAY ATTACH THE SUMMARY SHEETS IN LIEU OF COMPLETING SECTIONS III, IV, & V OF THIS FORM. HOWEVER, SECTIONS I, II, AND VI OF THIS FORM MUST BE COMPLETED. US EPA'S AP-42, SECTION 7.1, "ORGANIC LIQUID STORAGE TANKS," MAY ALSO BE USED TO ESTIMATE VOC AND HAP EMISSIONS (<u>http://www.epa.gov/tnn/chief/</u>).

1.	Bulk Storage Area Name Berger Pad A Tank Battery	2.	Tank Name ABJ-0014	
3.	Tank Equipment Identification No. (as assigned on <i>Equipment List Form</i> ) <b>ABJ-0014</b>	4.	Emission Point Identification No. (as assigned on <i>Equipment List Form</i> ) <b>CBA-0055</b>	
5.	Date of Commencement of Construction (for existing	tanł	(s) <b>2015</b>	
6.	Type of change 🛛 New Construction 🗌 🛚	lew	Stored Material Other Tank Modification	
7.	Description of Tank Modification (if applicable)			
7A.	Does the tank have more than one mode of operation (e.g. Is there more than one product stored in the tan		🖾 Yes 🗌 No	
7B.	If YES, explain and identify which mode is covere completed for each mode).	ed b	y this application (Note: A separate form must be	
	blowdown events are required, these events are	rout	uring normal operations. When maintenance ted to this tank and emissions are realized at the ses the emissions associated with the loading of	
7C.	Provide any limitations on source operation affecting variation, etc.):	em	issions, any work practice standards (e.g. production	
	NA II. TANK INFORM		ON (required)	
8.			internal cross-sectional area multiplied by internal	
0.	height.	uie	internal cross-sectional area multiplied by internal	
	400 bbls			
9A.	Tank Internal Diameter (ft)	9B.	Tank Internal Height (or Length) (ft)	
	12		20	
10/	1 3 ( )	10	<ol><li>Average Liquid Height (ft)</li></ol>	
	19.5		10	
11/		11	5 1 1 5 ()	
	18.3		10	
12.	<ol> <li>Nominal Capacity (specify barrels or gallons). This is also known as "working volume" and considers design liquid levels and overflow valve heights.</li> <li>400 bbls</li> </ol>			

#### I. GENERAL INFORMATION (required)

13A. Maximum annual throughput (gal/yr)	13B. Maximum daily throughput (gal/day)			
3,360	1,120			
14. Number of Turnovers per year (annual net throughpu				
	1			
15. Maximum tank fill rate (gal/min) <b>75</b>				
16. Tank fill method Submerged	Splash Bottom Loading			
17. Complete 17A and 17B for Variable Vapor Space Ta	nk Systems Does Not Apply			
17A. Volume Expansion Capacity of System (gal)	17B. Number of transfers into system per year			
NA	NA			
<ul> <li>18. Type of tank (check all that apply):</li> <li>□ Fixed Roof X vertical horizontal other (describe)</li> </ul>				
External Floating Roof pontoon roof Domed External (or Covered) Floating Roof	double deck root			
☐ Internal Floating Roof	pport self-supporting			
☐ Variable Vapor Space lifter roof				
Pressurized spherical cylindrica	I			
Other (describe)				
	ATION (optional if providing TANKS Summary Sheets)			
19. Tank Shell Construction:	d rivets 🛛 Other (describe) <b>Welded</b>			
	r Dark Green 20C. Year Last Painted 2015			
21. Shell Condition (if metal and unlined):				
🗌 No Rust 🛛 Light Rust 🗌 Dense R	ust 🛛 Not applicable			
22A. Is the tank heated? $\Box$ YES $\boxtimes$ NO				
22B. If YES, provide the operating temperature (°F)				
22C. If YES, please describe how heat is provided to t	ank.			
23. Operating Pressure Range (psig): 0.031 to 1				
24. Complete the following section for Vertical Fixed Ro	of Tanks Does Not Apply			
24A. For dome roof, provide roof radius (ft) 6				
24B. For cone roof, provide slope (ft/ft) <b>NA</b>				
25. Complete the following section for <b>Floating Roof Tanks</b> 🛛 Does Not Apply				
25A. Year Internal Floaters Installed:				
25B.    Primary Seal Type:          Metallic (Mechanical)       (check one)          Vapor Mounted Resil				
25C. Is the Floating Roof equipped with a Secondary	Seal? YES NO			
25D. If YES, how is the secondary seal mounted? (che	eck one) Shoe Rim Other (describe):			
25E. Is the Floating Roof equipped with a weather shi	eld? YES NO			

25F. Describe deck fittings; indicate the number of each type of fitting:					
	ACCESS	S НАТСН			
BOLT COVER, GASKETED:	UNBOLTED COVI	ER, GASKETED:	UNBOLTED UNGASKETED:	COVER,	
	AUTOMATIC GAL	JGE FLOAT WELL	1		
BOLT COVER, GASKETED:	UNBOLTED COVI		UNBOLTED	COVER,	
			UNGASKETED:		
	COLUM	N WELL	1		
BUILT-UP COLUMN – SLIDING COVER, GASKETED:	BUILT-UP COLL COVER, UNGASK		PIPE COLUMN – FABRIC SLEEVE SEAL	FLEXIBLE	
		R WELL	<u>}</u>		
PIP COLUMN – SLIDING COVER, G			SLIDING COVER, UNGA	SKETED:	
	GAUGE-HATCH	/ /SAMPLE PORT			
SLIDING COVER, GASKETED:		SLIDING COVER,	UNGASKETED:		
	ROOF LEG OR	HANGER WELL			
WEIGHTED MECHANICAL	WEIGHTED	MECHANICAL	SAMPLE WELL-SLIT FA	BRIC SEAL	
ACTUATION, GASKETED:	ACTUATION, UNG	GASKETED:	(10% OPEN AREA)		
	VACUUM	BREAKER	1		
WEIGHTED MECHANICAL ACTUAT			MECHANICAL A	CTUATION,	
	,	UNGASKETED:			
	RIM	VENT			
WEIGHTED MECHANICAL ACTUAT	ION GASKETED:	WEIGHTED UNGASKETED:	MECHANICAL A	CTUATION,	
		UNUAUNE TED.			
	DECK DRAIN (3-I	NCH DIAMETER)			
OPEN:	- (-	90% CLOSED:			
	STUB	DRAIN			
1-INCH DIAMETER:					
OTHER (DESCF	RIBE, ATTACH ADI	DITIONAL PAGES I	IF NECESSARY)		

26. Complete the following section for Internal	Floating Roof Tanks	🛛 Does Not Apply			
26A. Deck Type: 🗌 Bolted 🗌 We	26A. Deck Type: 🗌 Bolted 🗌 Welded				
26B. For Bolted decks, provide deck constru	ction:				
26C. Deck seam:					
Continuous sheet construction 5 feet wie Continuous sheet construction 6 feet wie					
Continuous sheet construction 7 feet with	de				
<ul> <li>Continuous sheet construction 5 × 7.5 fe</li> <li>Continuous sheet construction 5 × 12 fe</li> </ul>					
Other (describe)					
		<u> </u>			
26D. Deck seam length (ft)		ea of deck (ft <sup>2</sup> )			
For column supported tanks: 26F. Number of columns:	26G. Dia	ameter of each column:			
IV. SITE INFORMANTION	l (optional if providing T	ANKS Summary Sheets)			
27. Provide the city and state on which the data					
Charleston, WV					
28. Daily Average Ambient Temperature (°F) 7	′0 °F				
29. Annual Average Maximum Temperature (°F	29. Annual Average Maximum Temperature (°F) 65.5 °F				
30. Annual Average Minimum Temperature (°F	30. Annual Average Minimum Temperature (°F) 44.0 °F				
31. Average Wind Speed (miles/hr) 18 mph					
32. Annual Average Solar Insulation Factor (BT	⁻U/(ft²⋅day)) <b>1,123</b>				
33. Atmospheric Pressure (psia) 14.70					
V. LIQUID INFORMATION	(optional if providing 7	ANKS Summary Sheets)			
34. Average daily temperature range of bulk liq	uid: Ambient				
34A. Minimum (°F) <b>NA</b>	34B. Ma	iximum (°F) <b>NA</b>			
35. Average operating pressure range of tank:	0.52 psig				
35A. Minimum (psig) NA	35B. Ma	aximum (psig) NA			
36A. Minimum Liquid Surface Temperature (	(°F) 36B. Co	36B. Corresponding Vapor Pressure (psia)			
NA	NA				
37A. Average Liquid Surface Temperature (		rresponding Vapor Pressure (p	sia)		
NA           38A.         Maximum Liquid Surface Temperature	(°F) 38B. Co	rresponding Vapor Pressure (p	veia)		
NA	(T) 30D. 00 NA		510)		
39. Provide the following for each liquid or gas	to be stored in tank.	Add additional pages if necessa	ary.		
39A. Material Name or Composition	Produced Water				
39B. CAS Number	NA				
39C. Liquid Density (lb/gal)	8.35				
39D. Liquid Molecular Weight (lb/lb-mole)	18.02				
39E. Vapor Molecular Weight (lb/lb-mole)	18.02				

Maximum Vapor Press 39F. True (psia)	sure		NA		
(i )					
<u>39G. Reid (psia)</u> Months Storage per Y	ear	ľ	NA		
39H. From		Jar	nuary		
39I. To			ember		
	VI. EMISSIONS A			E DATA (required)	
40. Emission Control	Devices (check as many	/ as apply):	Does No	ot Apply	
Carbon Adsorp	otion <sup>1</sup>				
Condenser <sup>1</sup>					
Conservation \	/ent (psig)				
Vacuum S			Pressure Se	etting	
Emergency Re	lief Valve (psig)			-	
Inert Gas Blan					
Insulation of Ta	ank with				
Liquid Absorpti	ion (scrubber) <sup>1</sup>				
Refrigeration o	· · ·				
Rupture Disc (					
Vent to Inciner					
Other <sup>1</sup> (describ	e): Vapor Recovery Ur	nit			
	,		Sheet.		
<ul> <li><sup>1</sup> Complete appropriate Air Pollution Control Device Sheet.</li> <li>41. Expected Emission Rate (submit Test Data or Calculations here or elsewhere in the application).</li> </ul>					
41. Expected Emissio				or elsewhere in the app	lication).
-	n Rate (submit Test Dat	a or Calcul			
41. Expected Emissio Material Name & CAS No.		a or Calcul	ations here	or elsewhere in the app Annual Loss (lb/yr)	blication). Estimation Method <sup>1</sup>
Material Name &	n Rate (submit Test Dat Breathing Loss	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	
Material Name &	n Rate (submit Test Dat Breathing Loss (Ib/hr)	a or Calcul Workin Amount	ations here Ig Loss Units	Annual Loss (lb/yr)	

<sup>1</sup> EPA = EPA Emission Factor, MB = Material Balance, SS = Similar Source, ST = Similar Source Test, Throughput Data, O = Other (specify)

Remember to attach emissions calculations, including TANKS Summary Sheets if applicable.

## Attachment G EMISSIONS UNIT DATA SHEET STORAGE TANKS

Provide the following information for <u>each</u> new or modified bulk liquid storage tank as shown on the *Equipment List Form* and other parts of this application. A tank is considered modified if the material to be stored in the tank is different from the existing stored liquid.

IF USING US EPA'S TANKS EMISSION ESTIMATION PROGRAM (AVAILABLE AT <u>www.epa.gov/tnn/tanks.html</u>), APPLICANT MAY ATTACH THE SUMMARY SHEETS IN LIEU OF COMPLETING SECTIONS III, IV, & V OF THIS FORM. HOWEVER, SECTIONS I, II, AND VI OF THIS FORM MUST BE COMPLETED. US EPA'S AP-42, SECTION 7.1, "ORGANIC LIQUID STORAGE TANKS," MAY ALSO BE USED TO ESTIMATE VOC AND HAP EMISSIONS (http://www.epa.gov/tnn/chief/).

1.	1. Bulk Storage Area Name       2. Tank Name         Berger Pad A Tank Battery       2. ABJ-0011A, ABJ-0011B, ABJ-0011C, A			
3.	Tank Equipment Identification No. (as assigned on <i>Equipment List Form</i> ) ABJ-0011A, ABJ-0011B, ABJ-0011C, ABJ-0011D	<ol> <li>Emission Point Identification No. (as assigned of Equipment List Form)</li> <li>CBA-0055</li> </ol>		
5.	Date of Commencement of Construction (for existing	tanl	(s) <b>2015</b>	
6.	Type of change 🛛 New Construction 🗌 N	lew	Stored Material Other Tank Modification	
7.	Description of Tank Modification (if applicable)			
	ΝΑ			
7A.	Does the tank have more than one mode of operation (e.g. Is there more than one product stored in the tan		🗌 Yes 🛛 No	
7B.	If YES, explain and identify which mode is covere completed for each mode).	ed b	y this application (Note: A separate form must be	
	NA			
7C.	Provide any limitations on source operation affecting variation, etc.):	em	issions, any work practice standards (e.g. production	
	NA			
	II. TANK INFORM			
8.	Design Capacity (specify barrels or gallons). Use height. <b>400 bbls</b>	the	internal cross-sectional area multiplied by internal	
9A.	Tank Internal Diameter (ft)	9B. Tank Internal Height (or Length) (ft)		
-	12	20		
10/	A. Maximum Liquid Height (ft)	10B. Average Liquid Height (ft)		
	19.5		10	
11/	A. Maximum Vapor Space Height (ft)	11B. Average Vapor Space Height (ft)		
	18.3		10	
12.	<ol> <li>Nominal Capacity (specify barrels or gallons). This is also known as "working volume" and considers design liquid levels and overflow valve heights.</li> <li>400 bbls</li> </ol>			

#### I. GENERAL INFORMATION (required)

13A. Maximum annual throughput (gal/yr)	13B. Maximum daily throughput (gal/day)			
50,021,790	137,046			
14. Number of Turnovers per year (annual net throughpu				
	2,978			
15. Maximum tank fill rate (gal/min) 95				
16. Tank fill method Submerged	Splash Bottom Loading			
17. Complete 17A and 17B for Variable Vapor Space Ta	nk Systems 🛛 Does Not Apply			
17A. Volume Expansion Capacity of System (gal)	17B. Number of transfers into system per year			
NA	NA			
<ul> <li>18. Type of tank (check all that apply):</li> <li></li></ul>				
Domed External (or Covered) Floating Roof				
Internal Floating Roofvertical column su	pportself-supporting			
Variable Vapor Space lifter roof				
Pressurizedsphericalcylindrica	1			
	ATION (antion of it man it is a TANKO Oursean on Objects)			
19. Tank Shell Construction:	ATION (optional if providing TANKS Summary Sheets)			
Riveted Gunite lined Epoxy-coate	d rivets			
	r Dark Green 20C. Year Last Painted 2015			
21. Shell Condition (if metal and unlined):				
🗌 No Rust 🔤 Light Rust 🔤 Dense R	ust 🛛 Not applicable			
22A. Is the tank heated? $\Box$ YES $\boxtimes$ NO				
22B. If YES, provide the operating temperature (°F)				
22C. If YES, please describe how heat is provided to t	ank.			
23. Operating Pressure Range (psig): 0.031 to 1				
24. Complete the following section for Vertical Fixed Ro	of Tanks Does Not Apply			
24A. For dome roof, provide roof radius (ft) 6				
24B. For cone roof, provide slope (ft/ft) NA				
25. Complete the following section for <b>Floating Roof Tanks</b> 🛛 Does Not Apply				
25A. Year Internal Floaters Installed:				
25B.    Primary Seal Type:          Metallic (Mechanical)       (check one)          Vapor Mounted Resil	•			
25C. Is the Floating Roof equipped with a Secondary	Seal? YES NO			
25D. If YES, how is the secondary seal mounted? (che	eck one) Shoe Rim Other (describe):			
25E. Is the Floating Roof equipped with a weather shi	eld?  YES  NO			

25F. Describe deck fittings; indicate the number of each type of fitting:					
	ACCESS	S НАТСН			
BOLT COVER, GASKETED:	UNBOLTED COVI	ER, GASKETED:	UNBOLTED UNGASKETED:	COVER,	
	AUTOMATIC GAL	JGE FLOAT WELL	1		
BOLT COVER, GASKETED:	UNBOLTED COVI		UNBOLTED	COVER,	
			UNGASKETED:		
	COLUM	N WELL	1		
BUILT-UP COLUMN – SLIDING COVER, GASKETED:	BUILT-UP COLL COVER, UNGASK		PIPE COLUMN – FABRIC SLEEVE SEAL	FLEXIBLE	
		R WELL	<u>}</u>		
PIP COLUMN – SLIDING COVER, G			SLIDING COVER, UNGA	SKETED:	
	GAUGE-HATCH	/ /SAMPLE PORT			
SLIDING COVER, GASKETED:		SLIDING COVER,	UNGASKETED:		
	ROOF LEG OR	HANGER WELL			
WEIGHTED MECHANICAL	WEIGHTED	MECHANICAL	SAMPLE WELL-SLIT FA	BRIC SEAL	
ACTUATION, GASKETED:	ACTUATION, UNG	GASKETED:	(10% OPEN AREA)		
	VACUUM	BREAKER	!		
WEIGHTED MECHANICAL ACTUAT			MECHANICAL A	CTUATION,	
	,	UNGASKETED:			
	RIM	VENT			
WEIGHTED MECHANICAL ACTUAT	ION GASKETED:	WEIGHTED UNGASKETED:	MECHANICAL A	CTUATION,	
		UNUAUNE TED.			
	DECK DRAIN (3-I	NCH DIAMETER)			
OPEN:	- (-	90% CLOSED:			
	STUB	DRAIN			
1-INCH DIAMETER:					
OTHER (DESCF	RIBE, ATTACH ADI	DITIONAL PAGES I	IF NECESSARY)		

26. Complete the following section for Internal	Floating Roof Tanks	🛛 Does Not Apply			
26A. Deck Type: 🗌 Bolted 🗌 We	26A. Deck Type: 🗌 Bolted 🗌 Welded				
26B. For Bolted decks, provide deck constru	ction:				
26C. Deck seam:					
Continuous sheet construction 5 feet wie Continuous sheet construction 6 feet wie					
Continuous sheet construction 7 feet with	de				
<ul> <li>Continuous sheet construction 5 × 7.5 fe</li> <li>Continuous sheet construction 5 × 12 fe</li> </ul>					
Other (describe)					
		<u> </u>			
26D. Deck seam length (ft)		ea of deck (ft <sup>2</sup> )			
For column supported tanks: 26F. Number of columns:	26G. Dia	ameter of each column:			
IV. SITE INFORMANTION	l (optional if providing T	ANKS Summary Sheets)			
27. Provide the city and state on which the data					
Charleston, WV					
28. Daily Average Ambient Temperature (°F) 7	′0 °F				
29. Annual Average Maximum Temperature (°F	29. Annual Average Maximum Temperature (°F) 65.5 °F				
30. Annual Average Minimum Temperature (°F	30. Annual Average Minimum Temperature (°F) 44.0 °F				
31. Average Wind Speed (miles/hr) 18 mph					
32. Annual Average Solar Insulation Factor (BT	⁻U/(ft²⋅day)) <b>1,123</b>				
33. Atmospheric Pressure (psia) 14.70					
V. LIQUID INFORMATION	(optional if providing 7	ANKS Summary Sheets)			
34. Average daily temperature range of bulk liq	uid: Ambient				
34A. Minimum (°F) <b>NA</b>	34B. Ma	iximum (°F) <b>NA</b>			
35. Average operating pressure range of tank:	0.52 psig				
35A. Minimum (psig) NA	35B. Ma	aximum (psig) NA			
36A. Minimum Liquid Surface Temperature (	(°F) 36B. Co	36B. Corresponding Vapor Pressure (psia)			
NA	NA				
37A. Average Liquid Surface Temperature (		rresponding Vapor Pressure (p	sia)		
NA           38A.         Maximum Liquid Surface Temperature	(°F) 38B. Co	rresponding Vapor Pressure (p	veia)		
NA	(T) 30D. 00 NA		510)		
39. Provide the following for each liquid or gas	to be stored in tank.	Add additional pages if necessa	ary.		
39A. Material Name or Composition	Produced Water				
39B. CAS Number	NA				
39C. Liquid Density (lb/gal)	8.35				
39D. Liquid Molecular Weight (lb/lb-mole)	18.02				
39E. Vapor Molecular Weight (lb/lb-mole)	18.02				

Maximum Vapor Pressure	NA		
39F. True (psia)	NA		
<u>39G. Reid (psia)</u> Months Storage per Year	NA		
39H. From	January		
39I. To	December		
	ND CONTROL DEVIC	E DATA (required)	
40. Emission Control Devices (check as many	/ as apply): 🗌 Does No	ot Apply	
Carbon Adsorption <sup>1</sup>			
Condenser <sup>1</sup>			
Conservation Vent (psig)			
Vacuum Setting	Pressure S	etting	
Emergency Relief Valve (psig)			
Inert Gas Blanket of			
Insulation of Tank with			
Liquid Absorption (scrubber) <sup>1</sup>			
Refrigeration of Tank			
Rupture Disc (psig)			
$\Box$ Vent to Incinerator <sup>1</sup>			
Other <sup>1</sup> (describe): Vapor Recovery Ur	nit		
<sup>1</sup> Complete appropriate Air Pollution Contr			
41. Expected Emission Rate (submit Test Dat		or elsewhere in the app	lication).
Material Name & Breathing Loss	Working Loss	Annual Loss	
CAS No. (lb/hr)	Amount Units	(lb/yr)	Estimation Method <sup>1</sup>
*See calcul	ations included in At	tachment I.	
*For emission calculation purposes, the to tank, ABJ-0011A, ABJ-0011B, ABJ-0011C, Actual throughput for each tank will vary b	ABJ-0011D. Therefore		

 $^{1}$  EPA = EPA Emission Factor, MB = Material Balance, SS = Similar Source, ST = Similar Source Test, Throughput Data, O = Other (specify)

Remember to attach emissions calculations, including TANKS Summary Sheets if applicable.

### NATURAL GAS FIRED FUEL BURNING UNITS EMISSION DATA SHEET

Complete the information on this data for each Gas Producing Unit(s), Heater Treater(s), and in-line heater(s) at the production pad. Reboiler information should be entered on the Glycol Dehydration Emission Unit Data Sheet.

Emission Unit ID # <sup>1</sup>	Emission Point ID# <sup>2</sup>	Emission Unit Description (Manufacturer / Model #)	Year Installed/ Modified	Type <sup>3</sup> and Date of Change	Control Device	Design Heat Input (mmBtu/hr) <sup>5</sup>	Fuel Heating Value (Btu/scf) <sup>6</sup>
BAP-0110	BAP-0110	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0210	BAP-0210	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0410	BAP-0410	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0510	BAP-0510	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0610	BAP-0610	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0810	BAP-0810	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0910	BAP-0910	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-1010	BAP-1010	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285
BAP-0012	BAP-0012	Pietro Fiorentini 6362001-1440-J100	2015	New	NA	1.25	1,285

## Attachment G EMISSIONS UNIT DATA SHEET BULK LIQUID TRANSFER OPERATIONS

Furnish the following information for each new or modified bulk liquid transfer area or loading rack, as shown on the *Equipment List Form* and other parts of this application. This form is to be used for bulk liquid transfer operations such as to and from drums, marine vessels, rail tank cars, and tank trucks.

Identification Number (as assigned on Equipment List Form): ZZZ-0011				
1. Loading Area Nar	me: Tank Truck Load	ding Area – Produc	ed Water	
2. Type of cargo ves	2. Type of cargo vessels accommodated at this rack or transfer point (check as many as apply):			
3. Loading Rack or	Transfer Point Data:			
Number of pumps	6		0	
Number of liquids	loaded		1	
Maximum number of marine       2         vessels, tank trucks, tank cars,       2         and/or drums loading at one time       2         4. Does ballasting of marine vessels occur at this loading area?       ∑         ☐ Yes       ☐ No       ∑				
<ol> <li>Describe cleaning location, compounds and procedure for cargo vessels using this transfer point: NA</li> </ol>				
6. Are cargo vessels pressure tested for leaks at this or any other location?				
7. Projected Maximum Operating Schedule (for rack or transfer point as a whole):				
Maximum	Jan Mar.	Apr June	July - Sept.	Oct Dec.
hours/day	24	24	24	24
days/week	7	7	7	7

8. Bulk Liquid [	Data (add pages as necessa	ary):	
Pump ID No.		NA	
Liquid Name		Produced Water	
Max. daily throu	ıghput (1000 gal/day)	140.4	
Max. annual thr	oughput (1000 gal/yr)	50,021	
Loading Method	d <sup>1</sup>	Submerged	
Max. Fill Rate (		84	
	ne (min/loading)	200	
Max. Bulk Liqui	d Temperature (°F)	71 °F	
True Vapor Pre	ssure <sup>2</sup>	14.7	
Cargo Vessel C	Condition <sup>3</sup>	U	
Control Equipm	ent or Method <sup>4</sup>	NA	
Minimum contro	ol efficiency (%)	NA	
Maximum	Loading (lb/hr)	0.07	
Emission Rate	Annual (lb/yr)	2,040	
Estimation Meth	nod <sup>5</sup>	ProMax	
<sup>1</sup> BF = Bottom F	•	SUB = Submerged Fill	
	oulk liquid temperature		
<sup>3</sup> B = Ballasted	Vessel, C = Cleaned, U = Ur	ncleaned (dedicated service), O = other (describe)	
<ul> <li><sup>4</sup> List as many as apply (complete and submit appropriate <i>Air Pollution Control Device Sheets</i>):</li> <li>CA = Carbon Adsorption LOA = Lean Oil Adsorption CO = Condensation</li> <li>SC = Scrubber (Absorption) CRA = Compressor-Refrigeration-Absorption</li> <li>TO = Thermal Oxidation or Incineration CRC = Compression-Refrigeration-Condensation</li> <li>VB = Dedicated Vapor Balance (closed system) O = other (descibe)</li> <li><sup>5</sup> EPA = EPA Emission Factor as stated in AP-42</li> </ul>			
MB = Materia	l Balance easurement based upon test		

9. <b>Proposed Monitoring, Recordkeeping, Reporting, and Testing</b> Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.						
MONITORING	RECORDKEEPING					
Chevron will comply with all monitoring requirements set forth in the permit that is issued.	Chevron will comply with all recordkeeping requirements set forth in the permit that is issued.					
REPORTING TESTING						
Chevron will comply with all reporting requirements set forth in the permit that is issued.	Chevron will comply with all testing requirements set forth in the permit that is issued.					
<b>MONITORING.</b> PLEASE LIST AND DESCRIBE THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.						
<b>RECORDKEEPING.</b> PLEASE DESCRIBE THE PROPOS MONITORING.	ED RECORDKEEPING THAT WILL ACCOMPANY THE					
<b>REPORTING.</b> PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.						
<b>TESTING.</b> PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.						
10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty						
NA						

NA

WVDEP-OAQ Revision 03-2007

# Attachment H Air Pollution Control Devices

Chevron Appalachia, LLC (Chevron) will operate an electric drive vapor recovery unit (VRU) to collect and capture emissions from flashing, working, and breathing emissions from the produced water and test tanks. Chevron is applying for 95% control efficiency of the tank emissions through the use of a VRU. Tank unloading events will be vented directly to atmosphere.

Attachment I Emissions Calculations

# Flash Gas Compressor - CBA-0050

Pollutant	Emission Factor	Emission Factor Units	Emission Factor Basis / Source	Heat Value of Natural Gas (Btu/scf)	Rated bhp	BSFC (Btu/hp-hr)	Annual Operating Hours	Max. Hourly Emissions. (Ib/hr)	Max. Annual Emissions. (tpy)
VOC's	0.2	g/bhp-hr	Manufacturer Guarantee	1,285	625	7,791	8,760	0.28	1.21
Formaldehyde	0.02	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.10	0.44
Benzene	1.58E-03	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.008	0.03
Toluene	5.58E-04	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.003	0.012
Ethylbenzene	2.48E-05	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	<0.001	<0.001
Xylenes	1.95E-04	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	<0.001	0.004
СО	0.3	g/bhp-hr	Manufacturer Guarantee	1,285	625	7,791	8,760	0.41	1.81
NOx	0.20	g/bhp-hr	Manufacturer Guarantee	1,285	625	7,791	8,760	0.28	1.21
PMFilterable	9.50E-03	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.05	0.20
PMCondensable	9.91E-03	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.05	0.21
SO <sub>2</sub>	5.88E-04	lb/MMBtu	AP-42 Chapter 3.2	1,285	625	7,791	8,760	0.003	0.013
CO <sub>2</sub>	53.06	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1,285	625	7,791	8,760	117.23	513.46
CH <sub>4</sub>	0.001	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1,285	625	7,791	8,760	0.002	0.010
N <sub>2</sub> O	1.00E-04	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1,285	625	7,791	8,760	<0.001	<0.001
Total HAPs								0.11	0.48
Total CO <sub>2</sub> e								117.35	513.99

#### Notes:

-Engine emissions are controlled through the operation of NSCR.

-Greenhouse Gas Emissions are calculated using 40 CFR 98 Subpart C Table C-1 and C-2 emission factors.

- AP-42, Chapter 3.2 references are from the August 2000 revision.

-Max. Annual Emissions based upon Max. Hourly Emissions @ 8760 hr/yr.

-CO<sub>2</sub> equivalency solved for using Global Warming Potentials found in 40CFR98 Table A-1 (Updated January 2014). GWP CO<sub>2</sub>=1, GWP CH<sub>4</sub>=25, GWP N<sub>2</sub>O=298

### Example Equations:

Max. Hourly Emission Rate (lb/hr) = Emission Factor (lb/MMBtu) x BSFC (Btu/hp-hr) ÷ 1,000,000 x Engine Rating (bhp)

### **Line Heaters**

# BAP-0110, BAP-0210, BAP-0410, BAP-0510, BAP-0610, BAP-0810, BAP-0910, BAP-1010, BAP-0012

Pollutant	Emission Factor	Emission Factor Units	Emission Factor Basis / Source	Heater Rating (MMBtu/hr)	Heat Value of Natural Gas (Btu/scf)	Annual Operating Hours	Max. Hourly Emissions. (Ib/hr)	Max. Annual Emissions. (tpy)
VOC's	5.5	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	0.005	0.02
Hexane	1.8	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	0.002	0.008
Formaldehyde	0.075	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	<0.001	<0.001
Benzene	0.0021	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	<0.001	<0.001
Toluene	0.0034	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	<0.001	<0.001
Pb	0.0005	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	<0.001	<0.001
со	84	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	0.08	0.36
NOx	100	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	0.10	0.43
PM <sub>10</sub>	7.6	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	0.007	0.03
SO <sub>2</sub>	0.6	lb/10 <sup>6</sup> scf	AP-42 Chapter 1.4	1.25	1,285	8,760	<0.001	0.003
CO <sub>2</sub>	53.06	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1.25	1,285	8,760	146.22	640.45
CH <sub>4</sub>	0.001	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1.25	1,285	8,760	0.003	0.01
N <sub>2</sub> O	0.0001	kg CO <sub>2</sub> / MMBtu	40 CFR Subpart C	1.25	1,285	8,760	<0.001	0.001
Total HAPs							0.002	0.008
Total CO <sub>2</sub> e							146.37	641.11

#### Notes:

-Emission rates displayed above represent the max. hourly and max. annual emissions for one line heater. Cumulative emission rates for all 8 line heaters are diplayed in the Total Site Emissions Table.

-Greenhouse Gas Emissions are calculated using 40 CFR 98 Subpart C Table C-1 and C-2 emission factors.

-AP-42, Chapter 1.4 references are from the July 1998 revision.

Max. Annual Emissions based upon Max. Hourly Emissions @ 8760 hr/yr.

-CO<sub>2</sub> equivalency solved for using Global Warming Potentials found in 40CFR98 Table A-1 (Updated January 2014). GWP CO<sub>2</sub>=1, GWP CH<sub>4</sub>=25, GWP N<sub>2</sub>O=298

#### Example Equations:

Max. Hourly Emission Rate (lb/hr) = Emission Factor (lb/10<sup>6</sup> scf) ÷ Heating Value of Natural Gas (Btu/scf) x Boiler Rating (MMBtu/hr)

# Produced Water Tanks ABJ-0011(A-D) and Test Tank ABJ-0014

Pollutant	Max. Uncontrolled Hourly Emissions using ProMax (lb/hr)	Max. Uncontrolled Annual Emissions using ProMax (tons/yr)
VOCs	267.75	1,172.74
Total HAPs	10.78	47.23
Hexane	10.07	44.13
Benzene	0.10	0.44
Toluene	0.26	1.15
Ethylbenzene	0.10	0.46
Xylenes	0.25	1.11
CO <sub>2</sub>	0.68	2.98
CH <sub>4</sub>	62.48	273.68
Total CO <sub>2</sub> e	1,562.79	6,845.04

#### Notes:

-Emission rates for Produced Water Tanks ABJ-0011A, ABJ-0011B, ABJ-0011C, and ABJ-0011D, and Test Tank ABJ-0014 were calculated using ProMax software. ProMax output sheets for the Berger Pad are attached.

-The Test Tank (ABJ-0014) is a tank with 2 modes of operation. The tank will act as as a produced water tank during normal operations and will receive produced water from the separators. The produced water tanks and test tank are manifolded together. The test tank will also receive fluids from maintenance blowdown actitivies, as represented in the Test Tank calculations.

-The emission rates displayed above are pre-control device emissions.

-CO<sub>2</sub> equivalency solved for using Global Warming Potentials found in 40CFR98 Table A-1 (Updated January 2014). GWP CO<sub>2</sub>=1, GWP CH<sub>4</sub>=25, GWP N<sub>2</sub>O=298

-CO<sub>2</sub> and CH<sub>4</sub> emissions solved for using emissions rates (lb/hr) of "Flash Gas" from the ProMax output sheets.

-For emission calculation purposes, the total throughput for tanks ABJ-0011(A-E), ABJ-0014 is modeled as being received through a single tank. The throughput value represents the total throughput for all five (5) 400-barrel tanks. Therefore, emission rates represent a total from all produced fluids tanks located on the well pad. Actual throughput for each tank will vary based on operations.

# Test Tank (ABJ-0014)

Pollutant	Max. Uncontrolled Hourly Emissions using ProMax (Ib/hr)	Max. Uncontrolled Annual Emissions using ProMax (tons/yr)
VOCs	192.17	0.29
Total HAPs	8.88	0.01
Hexane	37.64	0.06
Benzene	0.46	0.001
Toluene	1.93	0.003
Ethylbenzene	1.20	0.002
Xylenes	3.14	0.005
CO <sub>2</sub>	1.99	0.003
CH <sub>4</sub>	328.03	0.49
Total CO <sub>2</sub> e	8,202.79	12.30

#### Notes:

-Emissions from short term maintenance blowdowns are not included in the Site PTE for Max. Hourly Emissions (lb/hr), as displayed in the calculation summary table of this application, since they are irregular and are associated with site maintenance activities.

-Emission rates for test tank ABJ-0014 were calculated using ProMax software. ProMax blowdown summary sheets are attached.

-Pound/hour emissions based on one 15 minute blowdown event. The well is blown down 3 times per year.

-Blowdown events are routed to a vent stack (ZZZ-0011) and are uncontrolled emission releases.

-CO<sub>2</sub> equivalency solved for using Global Warming Potentials found in 40CFR98 Subpart W Table A-1 (Updated January 2014). GWP CO<sub>2</sub>=1, GWP CH<sub>4</sub>=25, GWP N<sub>2</sub>O=298

-CO<sub>2</sub> and CH<sub>4</sub> emissions solved for using emissions rates (lb/hr) of flash gas from ProMax summary sheets.

#### Equations

VOCs (lb/hr) = Total emission rate output from ProMax (lb/hr) x .25 (hrs)

VOCs (tons/yr) = Max. Hourly Emissions (lb/hr) x 3 blowdowns per year ÷ 2000 (lbs/ton)

# Tank Unloading Operations ZZZ-0011

Pollutant	Max. Hourly Emissions (lb/hr)	Max. Yearly Emissions (tons/yr)					
VOCs	0.07	1.02					
HAPs	<0.001	0.004					
CO <sub>2</sub>	0.07	0.31					
CH <sub>4</sub>	0.45	1.96					
Total CO <sub>2</sub> e	11.24	49.23					

#### **Total Emissions from Tank Unloading Operations**

Notes:

Tank Unloading Operations will be uncontrolled at the Berger natural gas production facility -Emission rates for liquid unloading operations were calculated using ProMax software. ProMax summary sheets are attached.

# Vapor Recovery Unit (CBA-0055)

Waste Gas to VRU	Pollutant	Amount of Gas Sent to VRU (Ibs/hr)	Amount of Gas Sent to VRU (tons/year)	VRU Control Efficiency	Max. Hourly Emissions (Ib/hr)	Max. Yearly Emissions (tons/yr)
	VOCs	267.75	1172.74	95%	13.39	58.64
	Total HAPs	10.78	47.23	95%	0.54	2.36
	Hexane	10.07	44.13	95%	0.50	2.21
	Benzene	0.10	0.44	95%	0.005	0.02
Produced Water Tanks	Toluene	0.26	1.15	95%	0.01	0.06
ABJ-0011(A-E), Test Tank ABJ-0014	Ethylbenzene	0.10	0.46	95%	0.005	0.02
	Xylenes	0.25	1.11	95%	0.013	0.06
	CO <sub>2</sub>	0.68	2.98	95%	0.03	0.15
	CH <sub>4</sub>	62.48	273.68	95%	3.12	13.68
	CO <sub>2</sub> e	1,562.79	6,845.04	95%	78.14	342.25

#### Emissions from Tanks

#### Notes:

-Max. Annual Emissions based upon Max. Hourly Emissions @ 8760 hr/yr.

-CO<sub>2</sub> equivalency solved for using Global Warming Potentials found in 40CFR98 Table A-1 (Updated January 2014). GWP CO<sub>2</sub>=1, GWP CH<sub>4</sub>=25, GWP N<sub>2</sub>O=298

### Example Calculations:

Waste Gas Flow Rate (lb/hr) x 1- Control Efficiency (%) = Emission Rate (lb/hr)



### Fugitive Emissions from Unpaved Haul Roads

Constant	Industrial Roads						
Constant	PM	PM-10	PM-2.5				
k (lb/VMT)	4.9	1.5	0.15				
а	0.7	0.9	0.9				
b	0.45	0.45	0.45				

where

k s

р

Patricle size multiplier<sup>1</sup>

4.8 Silt content of road surface material (%)150 Number of days per year with precipitation

Item Number	Description	Number of Wheels	W Mean Vehicle Weight (tons)	Miles per Trip	Maximum Trips per Year	Control Efficiency (%)		PM Emissions (tons/yr)	PM-10 Emissions (Ibs/hr)	PM-10 Emissions (tons/yr)	PM-2.5 Emissions (Ibs/hr)
1	Liquids Hauling	14	30	0.72	11,911	NA	3.10	18.46	0.79	4.70	0.08
2	Employee Vehicles	4	3	0.72	200	NA	1.10	0.11	0.28	0.03	0.03
						Totals:	4.20	18.57	1.07	4.73	0.11

#### Notes:

<sup>1</sup> - Particle Size Multiplier used from AP-42 13.2.2 - Final Version 11/2006

<sup>2</sup> - Silt Content of Road Surface uses Sand and Gravel Processing Plant Road from AP-42 13.2.2 - Final Version 11/2006

<sup>3</sup> - Number of days per year with precipitation >0.01 in3 found using AP-42 13.2.2 Figure 13.2.2-1 - Final Version 11/2006

Example Calculations: Emissions (lb/Vehicle Mile Traveled) -  $E = k \times (s/12)^{a} \times (W/3)^{b}$ 

Equation 1a from AP-42 13.2.2 - Final Version 11/2006

Size Specific Emissions (Ib/VMT) - E<sub>ext</sub> = E[(365-p)/365]

Equation 2 from AP-42 13.2.2 - Final Version 11/2006

PM-2.5 Emissions (tons/yr)
0.47
0.003
0.47

### **Fugitive Leaks**

Default Average Component Counts for Major Onshore Natural Gas Production Equipment <sup>1</sup>						
Facility Equipment Type	Valves	Connectors	Open-ended Lines	Pressure Relief Valves		
Wellheads	8	38	0.5	0		
Separators	1	6	0	0		
Meters/Piping	12	45	0	0		
Compressors	12	57	0	0		
In-line Heaters	14	65	2	1		
Dehydrators	24	90	2	2		

Well Specific Equipment Counts				
Facility Equipment				
Туре	Count on Site			
Wellheads	8			
Separators	8			
Meters/Piping	12			
Compressors	2			
In-line Heaters	8			
Dehydrators	0			

<sup>1</sup>- Table W-1B to 40CFR98 Subpart W

Well Gas Composition														
Emissions from Flaring Operations	Propane	Butane	Pentanes	Heptane	Octane	Nonanes	Decanes	Hexane	Benzene	Toluene	Ethylbenzene	Xylene	<b>CO</b> <sub>2</sub>	CH <sub>4</sub>
Mole %	7.19	3.32	1.51	0.36	0.54	0.34	0.293	0.40	0.01	0.026	0.023	0.071	0.15	68.81
MW	44	58	72	100	114	128	142	86.00	78.00	92.00	106.00	106.00	44.00	16.00

Fugitive Emissions														
Facility Equipment Type	Total Count	Emission Rate (scf/hr/component) <sup>2</sup>	Hours of Operation	VOCs (Ibs/hr)	VOCs (tons/yr)	HAPs (Ibs/hr)	HAPs (tons/yr)	CO <sub>2</sub> (lbs/hr)	CO <sub>2</sub> (tons/yr)	CH <sub>4</sub> (Ibs/hr)	CH₄ (tons/yr)	Total CO <sub>2</sub> e (lbs/hr)	Total CO <sub>2</sub> e (tons/yr)	
Valves	220	0.027	8760	0.13	0.57	0.007	0.03	0.001	0.005	0.17	0.74	4.24	18.58	
Connectors	1031	0.003	8760	0.07	0.30	0.004	0.02	<0.001	0.002	0.09	0.39	2.21	9.67	
Open-ended Lines	20	0.06	8760	0.03	0.12	0.001	0.007	<0.001	<0.001	0.03	0.15	0.87	3.82	
Pressure Relief Valves	8	0.04	8760	0.007	0.03	<0.001	0.002	<0.001	<0.001	0.01	0.04	0.23	1.00	
2			Total Emissions:	0.23	1.02	0.01	0.06	0.002	0.01	0.30	1.32	7.55	33.07	

<sup>2</sup>- Table W-1A to 40CFR98 Subpart W

#### Notes:

-The "Combined Stream" gas composition in the attached ProMax simulations is utilized to calculate emission from fugitive leaks. -Gas Composition data for Berger site was unavailable. Gas composition was used to determine fugitive emissions based upon a nearby similar natural gas production site operated by Chevron Appalachia, LLC.

#### Example Equations:

Fugitive Emissions (lb/hr) = Count x Emission Rate x Hours of Operation ÷ 385.5 scf/lbmol x mol VOC's

	VO	Cs	HA	\Ps	СО		NO <sub>x</sub>		PM		SO <sub>2</sub>		CO <sub>2</sub>		CH <sub>4</sub>		N <sub>2</sub> O		CO <sub>2</sub> e	
Emission Sources	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Line Heater (BAP-0110)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0210)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0410)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0510)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0610)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0810)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0910)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-1010)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Line Heater (BAP-0012)	0.005	0.02	0.002	0.01	0.08	0.36	0.10	0.43	0.007	0.03	<0.001	0.003	146.22	640.45	0.003	0.01	<0.001	0.001	146.37	641.11
Flash Gas Compressor (CBA-0050)	0.28	1.21	0.11	0.48	0.41	1.81	0.28	1.21	0.05	0.21	0.003	0.013	117.23	513.46	0.002	0.010	<0.001	0.001	117.35	513.99
Vapor Recovery Unit (CBA-0055)	13.39	58.64	0.54	2.36									0.03	0.15	3.12	13.68			78.14	342.25
Tank Truck Loading Activities (ZZZ-0011)	0.07	1.02	<0.001	0.004									0.07	0.31	0.45	1.96			11.24	49.23
Test Tank Blowdown Emissions (ZZZ-0011)		0.29		0.01										0.003		0.49				12.30
Haul Roads									4.20	18.57										
Fugitives Leaks	0.23	1.02	0.01	0.06									0.002	0.01	0.30	1.32			7.55	33.07
Totals	14.01	62.38	0.68	2.99	1.15	5.03	1.15	5.04	4.31	19.07	0.01	0.04	1,433.33	6,277.98	3.90	17.57	0.01	0.01	1,531.63	6,720.84

Total Berger Pad A Natural Gas Production SiteTotal Controlled Emission Levels

	Total	HAPs	Hex	ane	Ben	zene	Tolu	lene	Ethylb	enzene	Xyl	ene	Forma	aldehyde
Emission Sources	lb/hr	tons/yr												
Line Heater (BAP-0110)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0210)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0410)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0510)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0610)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0810)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0910)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-1010)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Line Heater (BAP-0012)	0.002	0.008	0.002	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Flash Gas Compressor (CBA-0050)	0.11	0.48			0.008	0.03	0.003	0.012	<0.001	<0.001	<0.001	0.004	0.10	0.44
Vapor Recovery Unit (CBA-0055)	0.54	2.36	0.50	2.21	0.005	0.02	0.01	0.06	0.005	0.02	0.01	0.06		
Tank Truck Loading Activities (ZZZ-0011)	<0.001	0.004	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Test Tank Blowdown Emissions		0.01		0.06		0.001		0.003		0.002		0.005		
Haul Roads														
Fugitives Leaks	0.02	0.11	0.02	0.07	<0.001	0.001	<0.001	0.01	<0.001	0.01	<0.001	0.02		
Totals	0.69	3.04	0.54	2.41	0.01	0.06	0.02	0.08	0.005	0.03	0.01	0.08	0.10	0.44

# Total Berger Pad A Natural Gas Production Site Total Controlled Emission Levels - HAP Speciation



Aug 25, 2015

Dennis Matto Exterran 4477 Gleason Road Lakewood, NY 14750 Exterran QHSE and Operations Services 16666 Northchase Drive Houston, Texas 77060 U.S.A.

Main 281.836.7000 Fax 281.836.8161 www.exterran.com

Re: Engine Pedigree for Exterran Compressor Unit 71292, Engine Serial Number 73B01594

In order to better assist your company with any of its state and federal permitting needs, Exterran submits the following information in regards to the engine of the above-referenced compressor unit, which Exterran is currently utilizing to provide your company contract compression services. This letter should provide information necessary to answer questions pertaining to, but not limited to, the New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines, Subpart JJJJ. This information is current as of Aug 25, 2015.

Engine Make:	CATERPILLAR
Engine Model:	G398TA
Engine Serial Number:	73B01594
Engine Type:	4 Stroke RB
Engine Category:	Existing
Engine Subcategory:	Non Certified
Engine NSPS Status*:	Exempt
Exemption Justification*:	Overhauls since 6/12/06 have not triggered recon./modif.
Engine Speed:	1200.00
OEM Rated HP:	625.00
Engine Manufacture Date:	Pre June 12, 2006
Customer:	N/A
Business Unit:	N/A
Exterran Unit Number:	71292
Customer Lease Name:	N/A

Please contact Kyle Poycker with any questions at or kyle.poycker@exterran.com.

\* The "Engine NSPS Status" and "Exemption Justification" entries herein are based on Exterran's present knowledge of the engine in question and its reading of U.S. EPA's regulations and guidance pursuant to 40 C.F.R. Part 60, Subpart JJJJ. Any change in law or in the federal, state, or local interpretation of existing law could result in this engine being subject to additional or different legal requirements. These conclusions are Exterran's and are not offered as legal opinions or advice to your company. Additionally, any reconstruction or modification respecting this engine (as those terms are defined in the applicable regulations) could result in the applicability of Subpart JJJJ or other legal requirements to this engine and create legal compliance responsibilities for your company.



2585 Heartland Dr. Sheridan, WY 82801 Office: | Direct: +1 (307) 675.5081 riames@emittechnologies.com

#### Prepared For: Dennis Matto

EXTERRAN

## INFORMATION PROVIDED BY CATERPILLAR

Engine:	G398 TA LCR
Horsepower:	625
RPM:	1200
Compression Ratio:	7.0
Exhaust Flow Rate:	3043 CFM
Exhaust Temperature:	1112 °F
Reference:	LEBQ9194
Fuel:	Natural Gas
Annual Operating Hours:	8760

#### **Uncontrolled Emissions**

1	g/bhp-hr	Lb/Hr	Tons/Year
NOx:	9.80	13.50	59.14
CO:	10.70	14.74	64.58
THC:	0.80	1.10	4.83
NMHC	N/A	N/A	N/A
NMNEHC:	N/A	N/A	N/A
HCHO:	N/A	N/A	N/A
02:	0.50 %		

#### **POST CATALYST EMISSIONS**

bhp-hr
).20
0.30
.20
A

# CONTROL EQUIPMENT

#### **Catalyst Housing**

Model: Manufacturer: Housing Type: Catalyst Installation: Construction: Sample Ports: Inlet Connections: Outlet Connections: Configuration: Silencer: Silencer: Silencer Grade: Insertion Loss: Estimated Lead Time:

ERH-3050-0808F-4CE0-241 EMIT Technologies, Inc 4 Element Capacity Accessible Housing 10 gauge Carbon Steel 9 (0.5" NPT) 8" Flat Face Flange 8" Flat Face Flange End In / Side Out Integrated Hospital 35-40 dBA 2 Weeks to Ship

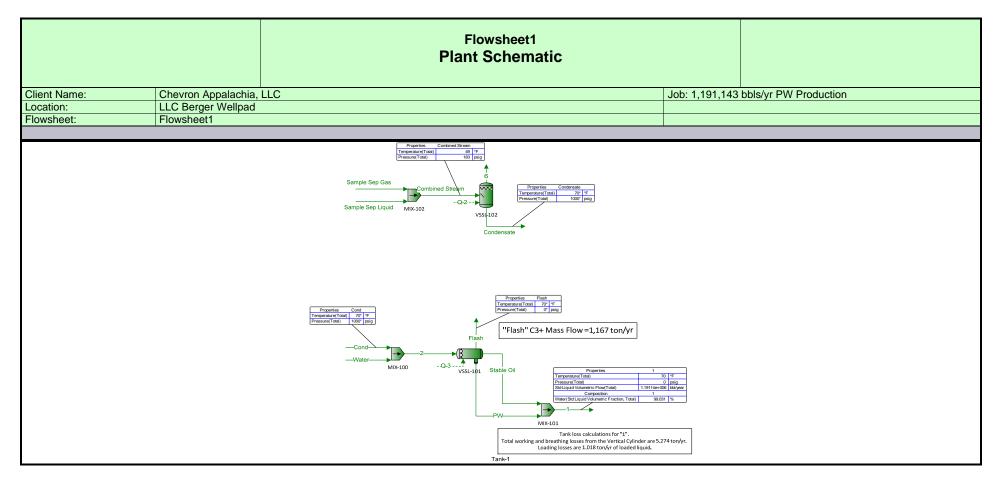
### **Catalyst Element**

Model:	RT-2415-T
Catalyst Type:	NSCR, Standard Precious Group Metals
Substrate Type:	BRAZED
Manufacturer:	EMIT Technologies, Inc
Element Quantity:	3
Element Size:	Rectangle 24" x 15" x 3.5"
Estimated Lead Time:	7-10 Business Days to Ship

The information in this quotation, and any files transmitted with it, is confidential and may be legally privileged. It is intended only for the use of individual(s) within the company named above. If you are the intended recipient, be aware that your use of any confidential or personal information may be restricted by state and federal privacy laws

www.emittechnologies.com

QUOTE: QUO-16585-H9S8 Expires: October 04, 2015



	All St	eams Report reams <sup>, Total Phase</sup>			
Client Name: Chevron Appala	achia, LLC		Job: 1.191	143 bbls/yr PW Pro	oduction
Location: LLC Berger Wel				110 0010/911 11110	
Flowsheet: Flowsheet1					
	Conne	ections			
	Combined	Cond	Condensate	Flash	PW
	Stream				
From Block	MIX-102		VSSL-102	VSSL-101	VSSL-101
To Block	VSSL-102	MIX-100			MIX-101
	Stream Co	omposition			
	Combined Stream	Cond	Condensate	Flash	PW
Mole Fraction	%	%	%	%	%
Hydrogen Sulfide	0	0 *	0	0	0
Nitrogen	0.419126	0.0779228 *	0.0779228	0.0952082	1.16596E-06
Carbon Dioxide Methane	0.149093 66.805	0.119714 * 27.1314 *	0.119714 27.1314	0.131034 33.028	6.81279E-05 0.000829441
Ethane	16.8518	27.1314 *	27.1314 20.1972	24.3983	0.000829441
Propane	7.19486	15.7638 *	15.7638	18.6127	0.000632013
Isobutane	0.884865	2.6723 *	2.6723	3.02666	3.51626E-05
n-Butane	2.43177	8.16066 *	8.16066	8.92813	0.000225463
2,2-Dimethylpropane	0.0143476	0.0511038 *	0.0511038	0.0539105	6.45673E-07
Isopentane	0.613405	2.48355 *	2.48355	2.328	4.11697E-05
n-Pentane	0.895973	3.81313 *	3.81313	3.30809	5.67508E-05
2,2-Dimethylbutane	0.0155259	0.070859 *	0.070859	0.0521162	3.13134E-07
Cyclopentane	0.00184745	0.00837269 *	0.00837269	0.0064428	7.14968E-07
2,3-Dimethylbutane	0.034535	0.162862 *	0.162862	0.104458	1.45042E-06
2-Methylpentane 3-Methylpentane	0.209303 0.133013	0.996068 * 0.639621 *	0.996068 0.639621	0.60555 0.367122	4.89934E-06 8.19468E-06
n-Hexane	0.399997	1.95516 *	1.95516	0.990125	6.39728E-06
Methylcyclopentane	0.0363572	0.178917 *	0.178917	0.0889608	6.31688E-06
Benzene	0.00580528	0.0284701 *	0.0284701	0.0108549	3.78512E-05
Cyclohexane	0.0583326	0.290254 *	0.290254	0.123688	1.34773E-05
2-Methylhexane	0.118394	0.604876 *	0.604876	0.169641	1.25491E-06
3-Methylhexane	0.125708	0.643973 *	0.643973	0.17433	1.34277E-06
2,2,4-Trimethylpentane	0	0 *	0	0	0
n-Heptane	0.357175	1.84382 *	1.84382	0.41347	3.3484E-06
Methylcyclohexane Toluene	0.135387 0.0261027	0.701908 * 0.136286 *	0.701908 0.136286	0.15935	7.2818E-06 6.90327E-05
n-Octane	0.53742	2.86129 *	2.86129	0.22579	1.09975E-06
Ethylbenzene	0.0231196	0.123714 *	0.123714	0.00830218	2.22147E-05
m-Xylene	0.0240517	0.129041 *	0.129041	0.00732084	2.00669E-05
o-Xylene	0.0468409	0.251757 *	0.251757	0.0127916	4.71676E-05
n-Nonane	0.336182	1.81862 *	1.81862	0.0474248	3.73032E-07
n-Decane	0.293546	1.59751 *	1.59751	0.0134579	6.40269E-08
<u>C11</u>	0.821119	4.4858 *	4.4858	0.0109862	6.75442E-08
Water	0	0 *	0	2.47369	99.9971
	Combined	Cond	Condenante	Fleat	DIA
Molar Flow	Combined Stream Ibmol/h	Cond Ibmol/h	Condensate Ibmol/h	Flash Ibmol/h	PW Ibmol/h
Hydrogen Sulfide	0	0 *	0	0	0
Nitrogen	0.0638133	0.0112626 *	0.00216497	0.0112278	3.0518E-05
Carbon Dioxide	0.0226999	0.017303 *	0.00332609	0.0154526	0.00178318
Methane	10.1713	3.92147 *	0.753808	3.89495	0.0217098
Ethane	2.56575	2.91922 *	0.561149	2.87726	0.0189002
Propane	1.09544	2.27844 *	0.437976	2.19496	0.0165423
Isobutane	0.134724	0.386243 *	0.074246	0.35693	0.000920346
n-Butane	0.370245	1.17951 *	0.226732	1.05288	0.00590127
2,2-Dimethylpropane	0.00218448	0.00738633 * 0.358963 *	0.00141984 0.0690019	0.00635759 0.274538	1.68999E-05 0.00107758
	0.000000				
Isopentane	0.0933928				
n-Pentane	0.136415	0.551134 *	0.105942	0.390118	0.0014854

			All St	eams Report reams 7 Total Phase			
Client Name:	Chevron Appala	ichia, LLC			Job: 1,191	,143 bbls/yr PW Pro	oduction
Location:	LLC Berger We	lpad					
Flowsheet:	Flowsheet1						
			1		1	Î.	1
			Combined Stream	Cond	Condensate	Flash	PW
Molar Flow			lbmol/h	lbmol/h	lbmol/h	Ibmol/h	lbmol/h
2-Methylpentane			0.0318671 0.0202517	0.143968 *	0.0276743	0.0714117	0.000128235
3-Methylpentane n-Hexane			0.0202517	0.0924481 * 0.28259 *	0.0177709 0.0543212	0.0432941 0.116764	0.000214488
Methylcyclopentane	<b>\</b>		0.0055355	0.0258599 *	0.00497095	0.010491	0.000165338
Benzene	•		0.000883873	0.00411496 *	0.000791002	0.0012801	0.000990717
Cyclohexane			0.00888133	0.0419521 *	0.00806428	0.0145863	0.000352754
2-Methylhexane			0.0180259	0.0874263 *	0.0168056	0.0200055	3.28461E-05
3-Methylhexane			0.0191395	0.0930772 *	0.0178918	0.0205585	3.51456E-05
2,2,4-Trimethylpent	ane		0	* 0	0	0	0
n-Heptane			0.054381	0.266498 *	0.0512278	0.0487599	8.7641E-05
Methylcyclohexane			0.0206131	0.101451 *	0.0195015	0.018792	0.000190594
Toluene n-Octane			0.00397422 0.0818239	0.0196982 * 0.413559 *	0.0037865 0.0794968	0.00283767 0.0266271	0.00180686 2.87849E-05
Ethylbenzene			0.00352003	0.0178811 *	0.00343722	0.000979064	0.000581448
m-Xylene			0.00366195	0.0186511 *	0.00358522	0.000863337	0.000525232
o-Xylene			0.00713168	0.036388 *	0.00699471	0.0015085	0.00123456
n-Nonane			0.0511849	0.262856 *	0.0505277	0.00559274	9.76376E-06
n-Decane			0.0446933	0.230898 *	0.0443846	0.00158707	1.67584E-06
C11			0.125018	0.648358 *	0.124631	0.00129558	1.7679E-06
Water			0	0 *	0	0.291719	2617.33
			Combined	Cond	Condensate	Flash	PW
Mass Fraction			Stream %	%	%	%	%
Hydrogen Sulfide			Stream %	<mark>%</mark> 0 *	<b>%</b>	<b>%</b>	<mark>%</mark>
Hydrogen Sulfide Nitrogen			Stream % 0 0.44238	% 0 * 0.0424841 *	% 0 0.0424841	% 0 0.0745688	% 0 1.81299E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide			Stream % 0 0.44238 0.247223	% 0.0424841 * 0.102539 *	% 0 0.0424841 0.102539	% 0 0.0745688 0.161231	% 0 1.81299E-06 0.000166424
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane			Stream % 0 0.44238 0.247223 40.3798	% 0.0424841 * 0.102539 * 8.47111 *	% 0.0424841 0.102539 8.47111	% 0.0745688 0.161231 14.8139	% 0 1.81299E-06 0.000166424 0.000738586
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane			Stream           0           0.44238           0.247223           40.3798           19.092	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 *	% 0.0424841 0.102539 8.47111 11.8197	% 0.0745688 0.161231 14.8139 20.5115	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane			Stream % 0 0.44238 0.247223 40.3798	% 0.0424841 * 0.102539 * 8.47111 *	% 0.0424841 0.102539 8.47111	% 0.0745688 0.161231 14.8139	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane			Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132	% 0.0745688 0.161231 14.8139 20.5115 22.9467	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan	e		Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 3.0229 * 9.23132 * 0.0717594 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane	e		Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 3.0229 * 9.23132 * 0.0717594 * 3.48738 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane n-Pentane			Stream % 0 0.44238 0.247223 40.3798 19.092 11.9537 1.93778 5.32537 0.0390027 1.66748 2.43562	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 3.0229 * 9.23132 * 0.0717594 * 3.48738 * 5.35435 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738 5.35435	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane n-Pentane 2,2-Dimethylbutane			Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 3.0229 * 9.23132 * 0.0717594 * 3.48738 * 5.35435 * 0.118843 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738 5.35435 0.118843	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane			Stream % 0 0.44238 0.247223 40.3798 19.092 11.9537 1.93778 5.32537 0.0390027 1.66748 2.43562 0.0504108 0.0048818	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 3.0229 * 9.23132 * 0.0717594 * 3.48738 * 5.35435 * 0.118843 * 0.0114283 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738 5.35435 0.118843 0.0114283	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane n-Pentane 2,2-Dimethylbutane			Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108	% 0.0424841 * 0.102539 * 8.47111 * 11.8197 * 13.5286 * 9.23132 * 0.0717594 * 3.48738 * 5.35435 * 0.118843 * 0.0114283 * 0.27315 *	% 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738 5.35435 0.118843 0.0114283 0.27315	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332 0.251676	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane			Stream % 0 0.44238 0.247223 40.3798 19.092 11.9537 1.93778 5.32537 0.0390027 1.66748 2.43562 0.0504108 0.0048818 0.112132	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276	% 0 0.0424841 0.102539 8.47111 11.8197 13.5286 3.0229 9.23132 0.0717594 3.48738 5.35435 0.118843 0.0114283 0.27315 1.67058 1.07276	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane			Stream % 0 0.44238 0.247223 40.3798 19.092 11.9537 1.93778 5.32537 0.0390027 1.66748 2.43562 0.0504108 0.0048818 0.112132 0.679586 0.431879 1.29875	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.118843         *           0.21315         *           0.21315         *           1.67058         *           1.07276         *	%           0         0.0424841           0.102539         8.47111           11.8197         13.5286           3.0229         9.23132           0.0717594         3.48738           5.35435         0.118843           0.0114283         0.27315           1.67058         1.07276           3.27915         1.67055	% 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332 0.251676 1.45898 0.884526 2.38556	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.91976E-05 3.06001E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane m-Hexane			Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0112132           0.679586           0.431879           1.29875           0.115286	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           1.67058           1.07276           3.27915	%           0         0.0424841           0.102539         8.47111           11.8197         13.5286           3.0229         9.23132           0.0717594         3.48738           5.35435         0.118843           0.0114283         0.27315           1.67058         1.07276           3.27915         0.293056	%           0         0.0745688           0.161231         14.8139           14.8139         20.5115           22.9467         4.91839           14.5084         0.108748           0.108748         4.69602           6.67304         0.125566           0.0126332         0.251676           1.45898         0.884526           2.38556         0.209324	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.91976E-05 3.06001E-05 2.95087E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Benzene			Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0112132           0.679586           0.431879           1.29875           0.115286           0.0170854	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.118843         *           0.0114283         *           1.67058         *           1.07276         *           3.27915         *           0.293056         *           0.0432816         *	%           0         0.0424841           0.102539         8.47111           11.8197         13.5286           3.0229         9.23132           0.0717594         3.48738           5.35435         0.118843           0.0114283         0.27315           1.67058         1.07276           3.27915         0.293056           0.0432816         0.0432816	%           0         0.0745688           0.161231         14.8139           20.5115         22.9467           4.91839         14.5084           0.108748         4.69602           6.67304         0.125566           0.0126332         0.251676           1.45898         0.884526           2.38556         0.209324           0.0237061         0.237061	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.91976E-05 3.06001E-05 2.95087E-05 0.000164112
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane			Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.118843         *           0.0114283         *           0.27315         *           1.67058         *           0.27315         *           0.293056         *           0.293056         *           0.0432816         *           0.47542         *	%           0         0.0424841           0.102539         8.47111           11.8197         13.5286           3.0229         9.23132           0.0717594         3.48738           5.35435         0.118843           0.0114283         0.27315           1.67058         1.07276           3.27915         0.293056           0.0432816         0.47542	%           0         0.0745688           0.161231         14.8139           20.5115         22.9467           4.91839         14.5084           0.108748         4.69602           6.67304         0.125566           0.0126332         0.251676           1.45898         0.884526           2.38556         0.209324           0.0237061         0.291037	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.91976E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 1,2-Dimethylputane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane			Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.0114283         *           0.0114283         *           0.27315         *           1.67058         *           0.293056         *           0.0432816         *           0.0432816         *           0.47542         *	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961	% 0 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332 0.251676 1.45898 0.884526 2.38556 0.209324 0.0237061 0.291037 0.475251	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.06001E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05 6.97965E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane	9		Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.118843         *           0.0114283         *           0.27315         *           1.67058         *           0.27315         *           0.293056         *           0.293056         *           0.0432816         *           0.47542         *	%           0         0.0424841           0.102539         8.47111           11.8197         13.5286           3.0229         9.23132           0.0717594         3.48738           5.35435         0.118843           0.0114283         0.27315           1.67058         1.07276           3.27915         0.293056           0.0432816         0.47542	%           0         0.0745688           0.161231         14.8139           20.5115         22.9467           4.91839         14.5084           0.108748         4.69602           6.67304         0.125566           0.0126332         0.251676           1.45898         0.884526           2.38556         0.209324           0.0237061         0.291037	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.91976E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylpropan 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane	9		Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.012132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           1.17961           1.25586           0	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.2432816           0.432816           0.47542           1.17961	% 0 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332 0.251676 1.45898 0.884526 2.38556 0.209324 0.0237061 0.291037 0.475251 0.488388	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05 6.97965E-06 7.46829E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 1,2-Dimethylpropan 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpent	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.0717594         *           3.48738         *           0.0114283         *           0.0114283         *           0.0114283         *           0.027315         *           1.67058         *           1.07276         *           0.293056         *           0.0432816         *           0.47542         *           1.17961         *	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0	% 0 0.0745688 0.161231 14.8139 20.5115 22.9467 4.91839 14.5084 0.108748 4.69602 6.67304 0.125566 0.0126332 0.251676 1.45898 0.884526 2.38556 0.209324 0.0237061 0.291037 0.475251 0.488388 0	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.06001E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05 6.97965E-06 7.46829E-06 0
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylpropan Isopentane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylpent n-Heptane Methylcyclohexane Toluene	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.01048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.4346984           0.474597           0           1.34847           0.500853           0.0906173	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987	% 0 1.81299E-06 0.000166424 0.000738586 0.0012052 0.00154691 0.00011344 0.00072738 2.58575E-06 0.000164874 0.000227272 1.49781E-06 2.78325E-06 6.93778E-06 2.3435E-05 3.06001E-05 2.95087E-05 3.06001E-05 2.95087E-05 0.000164112 6.29577E-05 6.97965E-06 7.46829E-06 0 1.86233E-05 3.96856E-05 0.000353053
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpent n-Heptane Methylcyclohexane Toluene n-Octane	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.012132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.434984           0.474597           0           1.34847           0.500853           0.0906173           2.31299	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.047542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.000134691           0.000134691           0.000134691           0.000172738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.91976E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           0.000353053           6.9729E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylpent n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0504108           0.012132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0           1.34847           0.500853           0.0906173           2.31299           0.0924796	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111           0.255621	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102           0.0246428	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.00072738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.91976E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           0.000353053           6.9729E-06           0.000130908
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylpropan 2,2-Dimethylpropan 2,2-Dimethylpropan 2,2-Dimethylputane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane Benzene Cyclohexane 2-Methylhexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 1,2,4-Trimethylpent n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0           1.34847           0.500853           0.0906173           2.31299           0.0924796	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.047542           1.17961           1.25586           0.244392           6.36111           0.244392           6.36111           0.255621           0.266628	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111           0.255621           0.266628	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102           0.0246428           0.02173	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.00072738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.91976E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           0.000353053           6.9729E-06           0.000130908           0.000118252
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane Benzene Cyclohexane 2-Methylhexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 1,2,4-Trimethylpent n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0           1.34847           0.500853           0.0906173           2.31299           0.0924796           0.187366	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.0432816           0.0432816           0.0432816           1.17961           1.25586           0.244392           6.36111           0.244392           6.36111           0.255621           0.266628           0.520187	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111           0.255621           0.266628           0.520187	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102           0.0246428           0.02173	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.00072738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.91976E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           0.000353053           6.9729E-06           0.000130908           0.000118252           0.000277952
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane Cyclopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 2,2,4-Trimethylpent n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane	9		Stream           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.0048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0           1.34847           0.500853           0.0906173           2.31299           0.0924796           0.0962083           0.187366	%           0.0424841         *           0.102539         *           8.47111         *           11.8197         *           13.5286         *           3.0229         *           9.23132         *           0.0717594         *           3.0229         *           9.23132         *           0.0717594         *           3.48738         *           0.0114283         *           0.0114283         *           0.0114283         *           0.27315         *           0.0114283         *           0.27315         *           0.293056         *           0.293056         *           0.293056         *           0.47542         *           1.17961         *           1.25586         *           0.243292         *           6.36111         *           0.255621         *           0.266628         *           0.520187         *	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111           0.255621           0.266628           0.520187           4.53955	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102           0.0246428           0.02173           0.170058	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.0001344           0.00072738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           3.96856E-05           0.000130908           0.000130908           0.000113252           0.000277952           2.65562E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropan Isopentane 2,2-Dimethylputane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane Benzene Cyclohexane 2-Methylhexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 3-Methylpexane 1,2,4-Trimethylpent n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene	9		Stream           %           0           0.44238           0.247223           40.3798           19.092           11.9537           1.93778           5.32537           0.0390027           1.66748           2.43562           0.0504108           0.048818           0.112132           0.679586           0.431879           1.29875           0.115286           0.0170854           0.184969           0.446984           0.474597           0           1.34847           0.500853           0.0906173           2.31299           0.0924796           0.187366	%           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.027315           1.67058           1.07276           3.27915           0.0432816           0.0432816           0.0432816           0.0432816           0.0432816           1.17961           1.25586           0.244392           6.36111           0.244392           6.36111           0.255621           0.266628           0.520187	%           0           0.0424841           0.102539           8.47111           11.8197           13.5286           3.0229           9.23132           0.0717594           3.48738           5.35435           0.118843           0.0114283           0.27315           1.67058           1.07276           3.27915           0.293056           0.0432816           0.47542           1.17961           1.25586           0           3.59576           1.3413           0.244392           6.36111           0.255621           0.266628           0.520187	%           0           0.0745688           0.161231           14.8139           20.5115           22.9467           4.91839           14.5084           0.108748           4.69602           6.67304           0.125566           0.0126332           0.251676           1.45898           0.884526           2.38556           0.209324           0.0237061           0.291037           0.475251           0.488388           0           1.15834           0.437442           0.061987           0.721102           0.0246428           0.02173	%           0           1.81299E-06           0.000166424           0.000738586           0.0012052           0.00154691           0.00072738           2.58575E-06           0.000164874           0.000227272           1.49781E-06           2.78325E-06           6.93778E-06           2.3435E-05           3.91976E-05           3.06001E-05           2.95087E-05           0.000164112           6.29577E-05           6.97965E-06           7.46829E-06           0           1.86233E-05           3.96856E-05           0.000353053           6.9729E-06           0.000130908           0.000118252           0.000277952

			Process Stre All Str Tabulated by	reams			
Client Name:	Chevron Appala	chia. LIC			Job: 1,191.	143 bbls/yr PW Pro	oduction
Location:	LLC Berger We					110 0010/ 911 11110	
Flowsheet:	Flowsheet1	iipuu					
	1.10110110011						
			Combined Stream	Cond	Condensate	Flash	PW
Mass Flow			lb/h	lb/h	lb/h	lb/h	lb/h
Hydrogen Sulfide			0	0 *	0	0	0
Nitrogen			1.78763	0.315505 *	0.0606482	0.314528	0.000854913
Carbon Dioxide			0.99901	0.761496 *	0.146379	0.680063	0.0784769
Methane			163.172	62.91 *	12.0929	62.4846	0.348279
Ethane			77.1495	87.778 *	16.8732	86.5165	0.568311
Propane			48.3042	100.469 *	19.3128	96.7883	0.729443
Isobutane			7.83043	22.4493 *	4.31534	20.7455	0.0534925
n-Butane			21.5194	68.5556 *	13.1782	61.1958	0.342995
2,2-Dimethylpropar	e		0.157607	0.532915 *	0.10244	0.458692	0.0012193
Isopentane			6.73818	25.8987 *	4.97841	19.8076	0.0777458
n-Pentane			9.84216	39.7637 *	7.64361	28.1466	0.10717
2,2-Dimethylbutane			0.203707	0.88258 *	0.169655	0.529633	0.000706291
Cyclopentane	•		0.019727	0.0848716 *	0.0163145	0.0532863	0.00131244
2,3-Dimethylbutane	<u> </u>		0.453116	2.02852 *	0.389935	1.06156	0.0032715
2-Methylpentane	•		2.74616	12.4065 *	2.38484	6.15393	0.0110507
3-Methylpentane			1.74519	7.96675 *	1.53142	3.73089	0.0184836
n-Hexane			5.24815	24.3523 *	4.68115	10.0622	0.0144294
Methylcyclopentane	2		0.465865	2.17636 *	0.418353	0.882919	0.0139148
Benzene	5		0.069041	0.321427 *	0.0617866	0.0999913	0.0773868
Cyclohexane			0.747448	3.53067 *	0.678686	1.22758	0.0296876
2-Methylhexane			1.80623	8.76028 *	1.68395	2.00459	0.00329124
3-Methylhexane			1.91781	9.32651 *	1.7928	2.00439	0.00352166
2,2,4-Trimethylpent	200		0	9.32031	0	2.00	0.00352100
n-Heptane	alle		5.44908	26.7036 *	5.13312	4.88584	0.0087818
Methylcyclohexane			2.02391	9.96106 *	1.91477		0.0187137
						1.84511	
Toluene n-Octane			0.366178	1.81496 *	0.348882	0.261458	0.166482
			9.34662	47.2402 *	9.0808	3.04158	0.00328806
Ethylbenzene			0.373704	1.89835 *	0.364912	0.103942	0.0617294
m-Xylene			0.388771	1.98009 *	0.380625	0.0916562	0.0557613
o-Xylene			0.757134	3.86313 *	0.742594	0.16015	0.131068
n-Nonane			6.56472	33.7126 *	6.48043	0.717297	0.00125225
n-Decane			6.35903	32.8526 *	6.31512	0.225811	0.000238442
C11			19.5413	101.344 *	19.4809	0.20251	0.000276338
Water			0	0 *	0	5.2554	47151.9
			Stream P	roperties			
Property		Units	Combined	Cond	Condensate	Flash	PW
riopenty		Units	Stream	Conu	Condensate	FIASII	FVV
Tomporatura		°F	48.7939	70 *	70 *	70 *	70
Temperature Pressure		psia	197.696	1014.7 *		14.6959 *	14.6959
Mole Fraction Vapo	r	psia %	92.218	0	0	14.6959	14.6959
Mole Fraction Light		%	7.78205	100	100	0	100
NOIS FIACION LIGHT	Liquiu	/0	1.10200	100	100	0	100

	70	92.210	0	0	100	0
Mole Fraction Light Liquid	%	7.78205	100	100	0	100
Mole Fraction Heavy Liquid	%	0	0	0	0	0
Molecular Weight	lb/lbmol	26.5409	51.3811	51.3811	35.767	18.0159
Mass Density	lb/ft^3	1.10928	34.5856	34.5856	0.0935174	62.2744
Molar Flow	lbmol/h	15.2253	14.4536	2.77836	11.7929	2617.4
Mass Flow	lb/h	404.093	742.642	142.755	421.795	47154.8
Vapor Volumetric Flow	ft^3/h	364.283	21.4726	4.12759	4510.34	757.21
Liquid Volumetric Flow	gpm	45.4171	2.6771	0.514608	562.328	94.4054
Std Vapor Volumetric Flow	MMSCFD	0.138667	0.131638	0.0253042	0.107405	23.8383
Std Liquid Volumetric Flow	sgpm	2.05777	2.76019 *	0.530581	1.8481	94.272
Compressibility		0.866854	0.265201	0.265201	0.988823	0.000747953
Specific Gravity			0.554532	0.554532	1.23494	0.998483
API Gravity			120.276	120.276		10.0156
Enthalpy	Btu/h	-587672	-844130	-162264	-514242	-3.21979E+08
Mass Enthalpy	Btu/lb	-1454.3	-1136.66	-1136.66	-1219.17	-6828.12
Mass Cp	Btu/(lb*°F)	0.493609	0.587868	0.587868	0.420174	0.983148
Ideal Gas CpCv Ratio		1.20515	1.10631	1.10631	1.15334	1.32583
Dynamic Viscosity	cP		0.146161	0.146161	0.00898067	0.99566

	Page	4	of	12
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		All St	reams			
evron Appa	Ilachia, LLC			Job: 1,19	1,143 bbls/yr PW Pro	duction
C Berger W	ellpad					
owsheet1						
		Stream I	Properties			
	Units	Combined Stream	Cond	Condensate	Flash	PW
	cSt		0.263825	0.263825	5.99509	0.998115
	Btu/(h*ft*°F)		0.0626087	0.0626087	0.0125712	0.34704
	lbf/ft		0.000357162 ?	0.000357162	?	0.00504243
/alue	Btu/ft^3	1424.07	2664.05	2664.05	1866.16	0.0566493
e	Btu/lb	20265.7	19522.3	19522.3	19651	-1058.51
g Value	Btu/ft^3	1561.05	2889.29	2889.29	2035.33	50.37
	Btu/lb	22224	21185.1	21185.1	21445.6	1.28474
	C Berger W owsheet1 /alue	Units CSt Btu/(h*ft*°F) Ibf/ft /alue Btu/ft^3 e Btu/lb	All St Tabulated b Tabulated b Devron Appalachia, LLC .C Berger Wellpad owsheet1	C Berger Wellpad           Stream Properties           Units         Combined Stream         Cond           cSt         0.263825           Btu/(h*ft*°F)         0.0626087           lbf/ft         0.000357162         ?           /alue         Btu//th*3         1424.07         2664.05           e         Btu/lb         20265.7         19522.3	All Streams Tabulated by Total Phase           Job: 1,19           Dob: 1,19           C Berger Wellpad           Stream Properties           Stream Properties           Combined Stream         Cond         Condensate           Stream         Condensate           Stream         Condensate           Stream         0.0626087         0.0626087           Ibf/ft         0.000357162         0.000357162           (alue         Btu/(h*ft*°F)         0.000357162         2         0.000357162           (alue         Btu/(h*ft*3)         1424.07         2664.05         2664.05           a         Btu/(b         20265.7         19522.3	All Streams Tabulated by Total Phase           hevron Appalachia, LLC         Job: 1,191,143 bbls/yr PW Production           C Berger Wellpad         Job: 1,191,143 bbls/yr PW Production           Owsheet1         Stream Properties           Voltage Stream Properties           CSt         Condensate         Flash           Stream         0.263825         0.263825         5.99509           Btu/(h*ft*°F)         0.0626087         0.0125712           Ibf/ft         0.000357162         0.000357162           /alue         Btu/ft^3         1424.07         2664.05         1866.16           e         Btu/lb         20265.7         19522.3         19522.3         19651

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		J Tab	All St	eams Report reams y Total Phase			
Client Name:	Chevron Appala				Job: 1,191	,143 bbls/yr PW Pro	oduction
Location:	LLC Berger We	lpad					
Flowsheet:	Flowsheet1						
			0.0.00				
				ections			
		Sample S Gas	бер	Sample Sep Liquid	Stable Oil	Water	1
From Block					VSSL-101		MIX-101
To Block		MIX-10	2	MIX-102	MIX-101	MIX-100	
		0/					
		Sample S Gas		omposition Sample Sep Liquid	Stable Oil	Water	1
Mole Fraction		%		%	%	%	%
Hydrogen Sulfide			0 *	0 *	0	0 *	0
Nitrogen			.452 *	0.0210002 *	0.000151213	0 *	1.3308E-06
Carbon Dioxide			0.16 *	0.0170002 *	0.0023336	0 *	7.06167E-05
Methane Ethano			.877 *	5.37905 *	0.167082	0 *	0.00101208
Ethane Propane			.518 * .744 *	8.78409 * 12.6551 *	0.800904 2.32529	0 *	0.00160115 0.0031858
Isobutane			.688 *	3.26903 *	0.986369	0 *	0.00111872
n-Butane			.672 *	11.6331 *	4.19395	0 *	0.00483256
2,2-Dimethylpropar	ne		0.01 *	0.0670007 *	0.035151	0 *	3.92607E-05
Isopentane			.263 *	4.85705 *	2.89544	0 *	0.00322197
n-Pentane		0	.323 *	7.83508 *	5.54202	0 *	0.00614498
2,2-Dimethylbutane	)		.005 *	0.143001 *	0.141998	0 *	0.000156307
Cyclopentane			.002 *	0 *	0.0149954	0 *	1.71876E-05
2,3-Dimethylbutane	)		.007 *	0.368004 *	0.388491	0 *	0.000428233
2-Methylpentane			.046 *	2.18702 *	2.51611	0 *	0.00276901
3-Methylpentane n-Hexane			.026 * .065 *	1.42901 * 4.45704 *	1.70014 5.75492	0 *	0.00187591 0.00632856
Methylcyclopentane	2		.005	0.404004 *	0.528166	0 *	0.000586537
Benzene	5		.000 *	0.0640006 *	0.0640646	0 *	0.000108189
Cyclohexane			.007 *	0.680007 *	0.938421	0 *	0.00104438
2-Methylhexane			.011 *	1.41901 *	2.34103	0 *	0.00257304
3-Methylhexane			0.01 *	1.52702 *	2.51805	0 *	0.00276759
2,2,4-Trimethylpent	tane		0 *	0 *	0	0 *	0
n-Heptane			.025 *	4.38004 *	7.56108	0 *	0.00830971
Methylcyclohexane	1		.009 *	1.66602 *	2.86492	0 *	0.00315458
Toluene			.002 * .026 *	0.318003 *	0.522957	0 *	0.000643462
n-Octane Ethylbenzene			.026	6.73107 * 0.291003 *	0.566972	0 *	0.000645048
m-Xvlene			.001 *	0.291003 *	0.599693	0 *	0.000678849
o-Xylene			.003	0.602006 *	1.16881	0 *	0.00133113
n-Nonane			.023 *	4.12904 *	8.93687	0 *	0.00981814
n-Decane			.014 *	3.67904 *	7.96612	0 *	0.00875139
C11			.003 *	10.7291 *	22.4787	0 *	0.0246944
Water			0 *	0 *	0.038004	100 *	99.8873
		- O - maile (	Con	Somela Car	Stable Oil	Matar	4
Molar Flow		Sample S Gas Ibmol/I	-	Sample Sep Liquid Ibmol/h	Stable Oil Ibmol/h	Water Ibmol/h	1 Ibmol/h
Hydrogen Sulfide			0 *	0 *	0	0 *	0
Nitrogen		0.063		0.000243873 *	4.35275E-06	0 *	3.48707E-05
Carbon Dioxide		0.022		0.000197421 *	6.71741E-05	0 *	0.00185035
Methane Ethano			1088 *	0.0624664 *	0.00480956	0 *	0.0265194
Ethane Propane			6374 * 8478 *	0.102009 * 0.146963 *	0.0230545 0.0669347	0 *	0.0419547 0.083477
Isobutane		0.94		0.037963 *	0.0283932	0 *	0.0293136
		0.090		0.135094 *	0.120725	0 *	0.126627
n-Butane	16		4064 *	0.000778072 *	0.00101184	0 *	0.00102874
n-Butane 2,2-Dimethylpropar	ne	0.001		0.000778072 * 0.0564044 *	0.00101184 0.083347	0 *	0.00102874 0.0844246
	ne	0.001	9884 *				
n-Butane 2,2-Dimethylpropar Isopentane		0.001 0.036 0.045 0.00070	9884 * 4268 * 3202 *	0.0564044 *	0.083347 0.15953 0.00408749	0 *	0.0844246 0.161016 0.00409568
n-Butane 2,2-Dimethylpropar Isopentane n-Pentane	9	0.001/ 0.0369 0.045/	9884 * 4268 * 3202 * 1281 *	0.0564044 * 0.090988 *	0.083347 0.15953	0 *	0.0844246 0.161016

\* User Specified Values ? Extrapolated or Approximate Values

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|  |                                       |           | All St  | reams Report<br>treams<br>by Total Phase  |  |  
   
   
   
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| Client Name:   | Chevron Appala                        | chia, LLC |   |   | Job: 1,191,  | ,143 bbls/yr PW Pro  
   
   
   
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| Flowsheet:   | Flowsheet1                            | •         |   |   |  |  
   
   
   
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|  |                                       |           | Sample Sep<br>Gas   | Sample Sep<br>Liquid  | Stable Oil   | Water  
   
   
   
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| Molar Flow   |                                       |           | lbmol/h   | lbmol/h   | lbmol/h  | lbmol/h  
   
   
   
  | lbmol/h   |   |  |  |  |  |  |   
   
   
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| 2-Methylpentane  |                                       |           | 0.00646946 *  | 0.0253977 *   | 0.0724277  | 0 *  
   
   
   
  | 0.0725559   |   |  |  |  |  |  |   
   
   
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| 3-Methylpentane  |                                       |           | 0.00365665 *  | 0.016595 *  | 0.0489395  | 0 *  
   
   
   
  | 0.049154  |   |  |  |  |  |  |   
   
   
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| n-Hexane   |                                       |           | 0.00914162 *  | 0.0517592 *   | 0.165659   | 0 *  
   
   
   
  | 0.165826  |   |  |  |  |  |  |   
   
   
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| Methylcyclopentane   |                                       |           | 0.000843842 *   | 0.00469166 *  | 0.0152036  | 0 *  
   
   
   
  | 0.0153689   |   |  |  |  |  |  |   
   
   
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| Benzene  |                                       |           | 0.00014064 *  | 0.000743233 *   | 0.00184414   | 0 *  
   
   
   
  | 0.00283485  |   |  |  |  |  |  |   
   
   
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| Cyclohexane  |                                       |           | 0.000984482 *   | 0.00789685 *  | 0.027013   | 0 *  
   
   
   
  | 0.0273657   |   |  |  |  |  |  |   
   
   
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| 2-Methylhexane   |                                       |           | 0.00154704 *  | 0.0164789 *   | 0.0673879  | 0 *  
   
   
   
  | 0.0674208   |   |  |  |  |  |  |   
   
   
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| 3-Methylhexane   |                                       |           | 0.0014064 *   | 0.0177331 *   | 0.0724835  | 0 *  
   
   
   
  | 0.0725187   |   |  |  |  |  |  |   
   
   
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| 2,2,4-Trimethylpenta   | II <del>C</del>                       |           | 0 *   | 0.050865 *  | 0 21765  | 0 *  
   
   
   
  | 0 217729  |   |  |  |  |  |  |   
   
   
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| n-Heptane  |                                       |           | 0.00351601 *  |   | 0.21765  | 0 *  
   
   
   
  | 0.217738  |   |  |  |  |  |  |   
   
   
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| Methylcyclohexane  |                                       |           | 0.00126576 *  | 0.0193473 *   | 0.0824683  | 0 *  
   
   
   
  | 0.0826589   |   |  |  |  |  |  |   
   
   
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| Toluene  |                                       |           | 0.000281281 *   | 0.00369294 *  | 0.0150536  | 0 *  
   
   
   
  | 0.0168605   |   |  |  |  |  |  |   
   
   
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| n-Octane   |                                       |           |   | 0.0781672 *   | 0.386903   | 0 *  
   
   
   
  | 0.386932  |   |  |  |  |  |  |   
   
   
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| Ethylbenzene   |                                       |           | 0.00014064 * 0.000421921 *  | 0.00337939 * 0.00324003 *   | 0.0163206  | 0 *  
   
   
   
  | 0.0169021   |   |  |  |  |  |  |   
   
   
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| m-Xylene   |                                       |           | 0.000421921 *   | 0.00324003 *  | 0.0172625  | 0 *  
   
   
   
  | 0.0177877   |   |  |  |  |  |  |   
   
   
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| o-Xylene<br>n-Nonane   |                                       |           | 0.00014064  | 0.00699104  | 0.0336449  | 0 *  
   
   
   
  | 0.0348795   |   |  |  |  |  |  |   
   
   
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| n-Decane   |                                       |           | 0.00323473  | 0.0479501   | 0.229309   | 0 *  
   
   
   
  | 0.229311  |   |  |  |  |  |  |   
   
   
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| C11  |                                       |           | 0.000196896   | 0.124596 *  | 0.229309   | 0 *  
   
   
   
  | 0.647063  |   |  |  |  |  |  |   
   
   
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| Water  |                                       |           | 0.000421921   | 0.124596  | 0.00109397   | 2617.62 *  
   
   
   
  | 2617.33   |   |  |  |  |  |  |   
   
   
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| Water  |                                       |           | 0   | 0   | 0.00109397   | 2017.02  
   
   
   
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| Mass Fraction  |                                       |           | Sample Sep<br>Gas<br>%  | Sample Sep<br>Liquid<br>%   | Stable Oil %   | Water<br>%   
   
   
   
  | 1%  |   |  |  |  |  |  |   
   
   
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| Mass Fraction<br>Hydrogen Sulfide  |                                       |           | Gas   | Liquid  |  |  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen   |                                       |           | Gas<br>%  | Liquid<br>%   | %  | %  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *   | %<br>0<br>3.77288E-05<br>0.000914729   | %  
   
   
   
  | %<br>0<br>2.05747E-06<br>0.000171518  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *  | %<br>0<br>3.77288E-05  | %<br>0 *<br>0 *  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496  | %<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *   
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112   | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *   
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane   | · · · · · · · · · · · · · · · · · · · |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064   | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *   
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane  | · · · · · · · · · · · · · · · · · · · |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *<br>0.152462 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00358854<br>0.0155015<br>0.000156333<br>0.0128294<br>0.0244683<br>0.000743391   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane<br>Cyclopentane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *<br>0.152462 *<br>0 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694  | %<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *<br>0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0128294<br>0.0244683<br>0.00244683<br>0.000743391<br>6.65262E-05   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *<br>0.152462 *<br>0.392349 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183  | %         0  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0128294<br>0.0244683<br>0.00244683<br>0.000743391<br>6.65262E-05<br>0.00203666   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.0027347 *<br>0.179709 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *<br>0.152462 *<br>0 *<br>0.392349 *<br>2.33171 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122   | %         0 *  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00244683<br>0.000743391<br>6.65262E-05<br>0.00203666<br>0.0131693  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.0027347 *<br>0.179709 *<br>0.101575 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>2.33171 *<br>1.52355 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493  | %         0          0          0          0          0          0          0          0          0          0          0          0          0          0   
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.0015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00244683<br>0.0024666<br>0.00203666<br>0.0131693<br>0.00892174  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.253936 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714   | %         0  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00244683<br>0.0024666<br>0.0131693<br>0.00892174<br>0.0300984  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>Cyclopentane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.0195336 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906   | %         0  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.002748391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>6.99375 *<br>0.152462 *<br>0 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906<br>0.00445712   | %         0          0          0          0          0          0          0          0          0  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.007753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00274683<br>0.00273666<br>0.0131693<br>0.00292174<br>0.0300984<br>0.00272429<br>0.000466396  |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.00267073 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428  | %         0          0          0          0          0          0          0          0          0  
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.002743391           6.65262E-05           0.0023666           0.0131693           0.00892174           0.0300984           0.00272429           0.000466396           0.00485085   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906<br>0.0445712<br>0.703428<br>2.08931   | %         0           0          0          0          0          0  
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.002748391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291  |   |  |  |  |  |  |   
   
   
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   |  |  |  |   |   |  |  |   |   |  |  |  |   |  |   |   |
| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045426 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906<br>0.0445712<br>0.703428<br>2.08931<br>2.24729  | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.00089607<br/>0.0026571<br/>0.00753<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.002748391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.015305</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,4-Trimethylpenta</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0459686 *<br/>0.0459426 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *</td><td>%<br/>0<br/>3.77288E-05<br/>0.000914729<br/>0.0238737<br/>0.214496<br/>0.913252<br/>0.510623<br/>2.17112<br/>0.0225884<br/>1.86064<br/>3.56136<br/>0.108989<br/>0.00936694<br/>0.298183<br/>1.93122<br/>1.30493<br/>4.41714<br/>0.395906<br/>0.0445712<br/>0.703428<br/>2.08931<br/>2.24729<br/>0</td><td>%         0          0          0          0    <!--</td--><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.00089607<br/>0.0026571<br/>0.00753<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.0045305<br/>0.015305<br/>0</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>n-Pentane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0459686 *<br/>0.0459686 *<br/>0.045926 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>0.618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.708033 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.708033 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708035 *<br/>0.708055 *<br/>0.7080</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806</td><td>%         0          0          0          0       <tr <=""
td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.00450855<br/>0.014305<br/>0<br/>0<br/>0.0459534</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.0327083 *<br/>0.0263887 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.028919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045968 *<br/>0.045965 *<br/>0.045965 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542</td><td>%         0          0          0          0       <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon
Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919
*<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr></td></tr></td></tr> | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.002748391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.015305  | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,4-Trimethylpenta   
   |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0459686 *<br>0.0459426 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *   | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906<br>0.0445712<br>0.703428<br>2.08931<br>2.24729<br>0   | %         0          0          0          0 </td <td>%<br/>2.05747E-06<br/>0.000171518<br/>0.00089607<br/>0.0026571<br/>0.00753<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.0045305<br/>0.015305<br/>0</td>   
   
   
   | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00244683<br>0.00274391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.0045305<br>0.015305<br>0   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane   |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0459686 *<br>0.0459686 *<br>0.045926 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>0.618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.708033 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.708033 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708055 *<br>0.7080 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806  | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.00450855<br/>0.014305<br/>0<br/>0<br/>0.0459534</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.0327083 *<br/>0.0263887 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.028919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045968 *<br/>0.045965 *<br/>0.045965 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542</td><td>%         0          0          0          0       <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0 
       0         0         0         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon
Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon
Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr></td></tr> | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00274391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.00450855<br>0.014305<br>0<br>0<br>0.0459534   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylpropane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane      |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.0327083 *<br>0.0263887 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.028919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045968 *<br>0.045965 *<br>0.045965 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542  | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon
Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919
*<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061
*<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr> | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.000743391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.004659534<br>0.0170941   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpentan<br>n-Heptane<br>Methylcyclohexane<br>Toluene |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.0648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.0253936 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0259396 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.78033 *<br>0 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0263936 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0 0 *<br>0.113565 *<br>0.0400609 *<br>0.00835409 *<br>0.134641 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.54299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td> | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914   
       0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene                               |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.028919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0113565 *<br>0.0400609 *<br>0.0134641 *<br>0.00481293 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.75429 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612   | %         0      0  | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>8enzene<br>Cyclohexane<br>2-Methylpentane<br>3-Methylcyclopentane<br>8enzene<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>7oluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0269703 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.0113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *<br>0.0144388 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.5.4299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706   | %         0 <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td>  | %           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2.Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene                                     |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0400609 *<br>0.113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *   | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.0598061 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *        | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521                                     | %         0         0         0         0         0         0         0         0         0         0         0         0         0         0
        0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td>                                    | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089 | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<>                                 | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936                                 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane<br>n-Decane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.00354116 *<br>0.02499686 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.04045429 *<br>0.0144388 *<br>0.00481293 *<br>0.0144388 *<br>0.00481293 *<br>0.0143731 *<br>0.0903037 * | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.38222 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *<br>6.55181 *<br>6.47621 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952 | %         0      0 | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,2,4-Trimethylpenta<br>n-Hexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122          
1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089 | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936 |
| %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.002748391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.015305   |                                       |           |   |   |  |  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,4-Trimethylpenta  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0459686 *<br>0.0459426 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *  | %<br>0<br>3.77288E-05<br>0.000914729<br>0.0238737<br>0.214496<br>0.913252<br>0.510623<br>2.17112<br>0.0225884<br>1.86064<br>3.56136<br>0.108989<br>0.00936694<br>0.298183<br>1.93122<br>1.30493<br>4.41714<br>0.395906<br>0.0445712<br>0.703428<br>2.08931<br>2.24729<br>0   | %         0          0          0          0 </td <td>%<br/>2.05747E-06<br/>0.000171518<br/>0.00089607<br/>0.0026571<br/>0.00753<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.0045305<br/>0.015305<br/>0</td>   
   
   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.00089607<br>0.0026571<br>0.00753<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00244683<br>0.00274391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.0045305<br>0.015305<br>0   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>n-Pentane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0459686 *<br>0.0459686 *<br>0.045926 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>0.618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.708033 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.708033 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708035 *<br>0.708055 *<br>0.7080 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806  | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.00244683<br/>0.00244683<br/>0.00274391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.0142291<br/>0.00450855<br/>0.014305<br/>0<br/>0<br/>0.0459534</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.0327083 *<br/>0.0263887 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.028919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045968 *<br/>0.045965 *<br/>0.045965 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542</td><td>%         0          0          0          0       <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936
*<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136 
         0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr><tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748          
0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr></td></tr>  | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00274391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.00450855<br>0.014305<br>0<br>0<br>0.0459534  | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylpropane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane   |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.0327083 *<br>0.0263887 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.028919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045968 *<br>0.045965 *<br>0.045965 *          |
Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542                    | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167
          13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td<
td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr> | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.000743391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.004659534<br>0.0170941   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpentan<br>n-Heptane<br>Methylcyclohexane<br>Toluene |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.0648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.0253936 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0259396 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.78033 *<br>0 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931          
2.24729           0           6.74806           2.50542           0.429167                   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td>   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941  | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0263936 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0 0 *<br>0.113565 *<br>0.0400609 *<br>0.00835409 *<br>0.134641 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.54299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748                   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td>   
   
   
   | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929                | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.028919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0113565 *<br>0.0400609 *<br>0.0134641 *<br>0.00481293 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.75429 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612                   | %         0      0  
                                 | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>8enzene<br>Cyclohexane<br>2-Methylpentane<br>3-Methylcyclopentane<br>8enzene<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>7oluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene                                  |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0269703 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.0113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *<br>0.0144388 *          | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.5.4299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706                   | %         0 <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td>   | %           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945  | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2.Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene         |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0400609 *<br>0.113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *                  | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.0598061 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *        | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521                   | %         0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td>    | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane                             |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0     
     6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089                   | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane<br>n-Decane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.00354116 *<br>0.02499686 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.04045429 *<br>0.0144388 *<br>0.00481293 *<br>0.0144388 *<br>0.00481293 *<br>0.0143731 *<br>0.0903037 * | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.38222 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *<br>6.55181 *<br>6.47621 *                 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952 | %         0      0  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,2,4-Trimethylpenta<br>n-Hexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089 | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936 |  |  |  |   
   |   |  |  |   |   |  |  |  |   |  |   |   |
| %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.00244683<br>0.00244683<br>0.00274391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.0142291<br>0.00450855<br>0.014305<br>0<br>0<br>0.0459534   |                                       |           |   |   |  |  
   
   
   
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   |  |  |  |   |   |  |  |   |   |  |  |  |   |  |   |   |
| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylpropane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.0327083 *<br>0.0263887 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.028919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045968 *<br>0.045965 *<br>0.045965 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542  | %         0          0          0          0 <tr <="" td=""><td>%<br/>2.05747E-06<br/>0.000171518<br/>0.0026571<br/>0.0026571<br/>0.00358854<br/>0.0155015<br/>0.00015633<br/>0.0128294<br/>0.0244683<br/>0.000743391<br/>6.65262E-05<br/>0.00203666<br/>0.0131693<br/>0.00892174<br/>0.0300984<br/>0.00272429<br/>0.000466396<br/>0.00485085<br/>0.004659534<br/>0.0170941</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylpropane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpentan<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.0648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.01575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.0228919 *<br/>0.0354116 *<br/>0.0259396 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *<br/>0.045966 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.78033 *<br/>0 *<br/>0.78033 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780355 *<br/>0.780555 *<br/>0.7805555 *<br/>0.78055555555555555555555555555555555555</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0263936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0 0 *<br/>0.113565 *<br/>0.0400609 *<br/>0.00835409 *<br/>0.134641 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0 *<br/>0.54299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748</td><td>%         0          0          0          0    <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon
Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylbutane<br/>Cyclopentane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.0027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.028919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.0134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.75429 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>3-Methylpentane<br/>8enzene<br/>Cyclohexane<br/>2-Methylpentane<br/>3-Methylcyclopentane<br/>8enzene<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>7oluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0327083 *<br/>0.860227 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0269703 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.0113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *<br/>0.0144388 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.152462 *<br/>0.152462 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.420655 *<br/>0.0618499 *<br/>0.708033 *<br/>1.75914 *<br/>1.89303 *<br/>0.5.4299 *<br/>2.0238 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706</td><td>%         0       <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2.Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.027347 *<br/>0.179709 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0267073 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.045426 *<br/>0.0400609 *<br/>0.113565 *<br/>0.0400609 *<br/>0.134641 *<br/>0.00481293 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521</td><td>%         0       <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon 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*<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<></td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>3-Methylpentane<br/>n-Hexane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane<br/>n-Decane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.027347 *<br/>0.101575 *<br/>0.0253936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.023936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.02499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.04045429 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0144388 *<br/>0.00481293 *<br/>0.0143731 *<br/>0.0903037 *</td><td>Liquid<br/>%<br/>0 *<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>2.33171 *<br/>1.52355 *<br/>4.7519 *<br/>0.420655 *<br/>0.38222 *<br/>0.362501 *<br/>9.51253 *<br/>0.382222 *<br/>0.366461 *<br/>0.790714 *<br/>6.55181 *<br/>6.47621 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952</td><td>%         0      0</td><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198</td></tr> <tr><td>Hydrogen Sulfide<br/>Nitrogen<br/>Carbon Dioxide<br/>Methane<br/>Ethane<br/>Propane<br/>Isobutane<br/>n-Butane<br/>2,2-Dimethylpropane<br/>Isopentane<br/>2,2-Dimethylputane<br/>2,2-Dimethylbutane<br/>2,2-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2,3-Dimethylbutane<br/>2-Methylpentane<br/>3-Methylpentane<br/>Methylcyclopentane<br/>Benzene<br/>Cyclohexane<br/>2,2,4-Trimethylpenta<br/>n-Hexane<br/>3-Methylhexane<br/>3-Methylhexane<br/>2,2,4-Trimethylpenta<br/>n-Heptane<br/>Methylcyclohexane<br/>Toluene<br/>n-Octane<br/>Ethylbenzene<br/>m-Xylene<br/>o-Xylene<br/>n-Nonane</td><td></td><td></td><td>Gas<br/>%<br/>0.574027 *<br/>0.319223 *<br/>52.2744 *<br/>23.8799 *<br/>13.4816 *<br/>1.81284 *<br/>4.40562 *<br/>0.0327083 *<br/>0.860227 *<br/>1.05648 *<br/>0.0195336 *<br/>0.00635887 *<br/>0.00635887 *<br/>0.007347 *<br/>0.101575 *<br/>0.253936 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0228919 *<br/>0.00354116 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.0499686 *<br/>0.045426 *<br/>0.0499686 *<br/>0.045426 *<br/>0.043549 *<br/>0.0113565 *</td><td>Liquid<br/>%<br/>0.00727825 *<br/>0.00925629 *<br/>1.06761 *<br/>3.26779 *<br/>6.90398 *<br/>2.35071 *<br/>8.36519 *<br/>0.0598061 *<br/>4.3355 *<br/>0.0598061 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.392349 *<br/>0.420655 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.362501 *<br/>0.3626461 *<br/>0.366461 *<br/>0.790714 *</td><td>%           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089</td><td>%         0         <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<></td></tr>   
   
  | %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.000743391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.004659534<br>0.0170941   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpentan<br>n-Heptane<br>Methylcyclohexane<br>Toluene |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.0648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.0253936 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0259396 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.78033 *<br>0 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167 | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td>   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane   |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0263936 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0 0 *<br>0.113565 *<br>0.0400609 *<br>0.00835409 *<br>0.134641 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.54299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748 | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td>   
   
   
   | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.028919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0113565 *<br>0.0400609 *<br>0.0134641 *<br>0.00481293 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519
*<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.75429 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612 | %         0      0   
   
   
   | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>8enzene<br>Cyclohexane<br>2-Methylpentane<br>3-Methylcyclopentane<br>8enzene<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>7oluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene   |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0269703 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.0113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *<br>0.0144388 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.5.4299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706 | %         0 <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td>  | %           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2.Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0400609 *<br>0.113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *              | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.0598061 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521 | %         0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td>   | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936  | Hydrogen Sulfide<br>Nitrogen<br>Carbon
Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 * | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089 | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936   | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane<br>n-Decane |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.00354116 *<br>0.02499686 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.04045429 *<br>0.0144388 *<br>0.00481293 *<br>0.0144388 *<br>0.00481293 *<br>0.0143731 *<br>0.0903037 * | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.38222 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *<br>6.55181 *<br>6.47621 *                 | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952 | %         0      0  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198 | Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,2,4-Trimethylpenta<br>n-Hexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane                            |  |  | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 * | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089                   | %         0 <td<
td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<> | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936                                       |   |  |  |  |   |  |   |   |  |  |  |   |   |  |  |   |   |  |  |  |   |   
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| %<br>2.05747E-06<br>0.000171518<br>0.0026571<br>0.0026571<br>0.00358854<br>0.0155015<br>0.00015633<br>0.0128294<br>0.0244683<br>0.000743391<br>6.65262E-05<br>0.00203666<br>0.0131693<br>0.00892174<br>0.0300984<br>0.00272429<br>0.000466396<br>0.00485085<br>0.004659534<br>0.0170941  |                                       |           |   |   |  |  
   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylpropane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpentan<br>n-Heptane<br>Methylcyclohexane<br>Toluene      |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.0648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.01575 *<br>0.0253936 *<br>0.0228919 *<br>0.0228919 *<br>0.0354116 *<br>0.0259396 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *<br>0.045966 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.78033 *<br>0 *<br>0.78033 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780355 *<br>0.780555 *<br>0.7805555 *<br>0.78055555555555555555555555555555555555  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941</td>  
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0148291           0.015305           0.0142291           0.015305           0.015305           0.015305           0.01452934           0.0170941   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0263936 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0 0 *<br>0.113565 *<br>0.0400609 *<br>0.00835409 *<br>0.134641 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0 *<br>0.54299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748   | %         0          0          0          0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929</td>   
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038864           0.0155015           0.0015633           0.0128294           0.0244683           0.00203666           0.0131693           0.00272429           0.000466396           0.00448585           0.004485085           0.0142291           0.01452934           0.01452934           0.00272429           0.004465085           0.01452914           0.01452924           0.01452934           0.0142291           0.00459534           0.0170941           0.00327204           0.0930929                |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylbutane<br>Cyclopentane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene   |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.0027347 *<br>0.101575 *<br>0.253936 *<br>0.028919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0113565 *<br>0.0400609 *<br>0.0134641 *<br>0.00481293 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.75429 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612   | %         0      0   
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.00358854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00446396           0.00485085           0.0142291           0.0145234           0.0142291           0.0145293           0.0145293           0.0145291           0.0145293           0.0142291           0.01459534           0.0170941           0.00327204           0.0930929           0.00377945 |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>3-Methylpentane<br>8enzene<br>Cyclohexane<br>2-Methylpentane<br>3-Methylcyclopentane<br>8enzene<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>7oluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene  |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>0.0327083 *<br>0.860227 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0269703 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.0113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *<br>0.0144388 *   | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.152462 *<br>0.152462 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.420655 *<br>0.0618499 *<br>0.708033 *<br>1.75914 *<br>1.89303 *<br>0.5.4299 *<br>2.0238 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706   | %         0 <td>%           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945</td>   
   
   
   
  | %           0.000171518           0.00089607           0.0026571           0.0038854           0.0155015           0.0015633           0.0155015           0.00244683           0.0024683           0.00236866           0.0131693           0.00272429           0.004468365           0.00272429           0.00446396           0.0142291           0.015355           0.0142291           0.015354           0.0170941           0.00377945           0.00377945   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2.Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene                                     |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.027347 *<br>0.179709 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0267073 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.045426 *<br>0.0400609 *<br>0.113565 *<br>0.0400609 *<br>0.134641 *<br>0.00481293 *   | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.0598061 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *  | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521                                     | %         0 <td>%           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936</td>   
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0025571           0.0038854           0.0155015           0.0015633           0.0128294           0.0244683           0.000743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.0142291           0.015305           0.0142291           0.01534           0.0170941           0.00327204           0.0930929           0.00377945           0.00377936   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane                             |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089                   | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936</td></td<>  
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0.001459534           0.0170941           0.00377945           0.00377936           0.00779936   |   |  |  |  |  |  |   
   
   
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   |  |  |  |   |   |  |  |   |   |  |  |  |   |  |   |   |
| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>3-Methylpentane<br>n-Hexane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane<br>n-Decane |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.027347 *<br>0.101575 *<br>0.0253936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.023936 *<br>0.0228919 *<br>0.00354116 *<br>0.02499686 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.04045429 *<br>0.0144388 *<br>0.00481293 *<br>0.0144388 *<br>0.00481293 *<br>0.0143731 *<br>0.0903037 * | Liquid<br>%<br>0 *<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>2.33171 *<br>1.52355 *<br>4.7519 *<br>0.420655 *<br>0.38222 *<br>0.362501 *<br>9.51253 *<br>0.382222 *<br>0.366461 *<br>0.790714 *<br>6.55181 *<br>6.47621 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089           10.0952 | %         0      0   
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.0035854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.00272429           0.00466396           0.00485085           0.0142291           0.015305           0           0.0459534           0.0170941           0.00327204           0.00377945           0.00377945           0.00779936           0.0687198   |   |  |  |  |  |  |   
   
   
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| Hydrogen Sulfide<br>Nitrogen<br>Carbon Dioxide<br>Methane<br>Ethane<br>Propane<br>Isobutane<br>n-Butane<br>2,2-Dimethylpropane<br>Isopentane<br>2,2-Dimethylputane<br>2,2-Dimethylbutane<br>2,2-Dimethylbutane<br>2,3-Dimethylbutane<br>2,3-Dimethylbutane<br>2-Methylpentane<br>3-Methylpentane<br>Methylcyclopentane<br>Benzene<br>Cyclohexane<br>2,2,4-Trimethylpenta<br>n-Hexane<br>3-Methylhexane<br>3-Methylhexane<br>2,2,4-Trimethylpenta<br>n-Heptane<br>Methylcyclohexane<br>Toluene<br>n-Octane<br>Ethylbenzene<br>m-Xylene<br>o-Xylene<br>n-Nonane                            |                                       |           | Gas<br>%<br>0.574027 *<br>0.319223 *<br>52.2744 *<br>23.8799 *<br>13.4816 *<br>1.81284 *<br>4.40562 *<br>0.0327083 *<br>0.860227 *<br>1.05648 *<br>0.0195336 *<br>0.00635887 *<br>0.00635887 *<br>0.007347 *<br>0.101575 *<br>0.253936 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0228919 *<br>0.00354116 *<br>0.0499686 *<br>0.0499686 *<br>0.0499686 *<br>0.045426 *<br>0.0499686 *<br>0.045426 *<br>0.043549 *<br>0.0113565 *  | Liquid<br>%<br>0.00727825 *<br>0.00925629 *<br>1.06761 *<br>3.26779 *<br>6.90398 *<br>2.35071 *<br>8.36519 *<br>0.0598061 *<br>4.3355 *<br>0.0598061 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.392349 *<br>0.420655 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.362501 *<br>0.3626461 *<br>0.366461 *<br>0.790714 *   | %           0           3.77288E-05           0.000914729           0.0238737           0.214496           0.913252           0.510623           2.17112           0.0225884           1.86064           3.56136           0.108989           0.00936694           0.298183           1.93122           1.30493           4.41714           0.395906           0.0445712           0.703428           2.08931           2.24729           0           6.74806           2.50542           0.429167           13.6748           0.53612           0.56706           1.10521           10.2089                   | %         0 <td< td=""><td>%           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936</td></td<>  
   
   
   
  | %           0           2.05747E-06           0.000171518           0.0026571           0.0026571           0.00358854           0.0155015           0.00015633           0.0128294           0.0244683           0.00743391           6.65262E-05           0.00203666           0.0131693           0.00272429           0.000466396           0.00485085           0.0142291           0.015305           0           0.01459534           0.0170941           0.00377245           0.00377945           0.00377936           0.00377936   |   |  |  |  |  |  |   
   
   
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		All St	reams Report reams ny Total Phase			
Client Name:	Chevron Appalachia, LLC			Job: 1 191	,143 bbls/yr PW Prod	duction
Location:	LLC Berger Wellpad			000. 1,101	, 140 0010/ yr 1 W 1 100	
Flowsheet:	Flowsheet1					
Tiowsheet.	Tiowsheet					
Mass Flow		Sample Sep Gas Ib/h	Sample Sep Liquid Ib/h	Stable Oil	Water Ib/h	1 Ib/h
Hydrogen Sulfide		0 *	0 *	0	0 *	0
Nitrogen		1.7808 *	0.00683172 *	0.000121935	0 *	0.000976848
Carbon Dioxide		0.990322 *	0.00868841 *		0 *	0.0814332
				0.0029563	0 *	
Methane Ethane		<u> </u>	1.00212 * 3.06731 *	0.0771572 0.693227	0 *	0.425436
					0 *	
Propane		41.8237 *	6.48041 *	2.95153	0 *	3.68097
Isobutane n-Butane		<u>5.62394</u> * 13.6675 *	2.20649 * 7.85197 *	1.65028 7.01682	0 *	1.70377 7.35982
					-	
2,2-Dimethylprop	ane	0.10147 *	0.056137 *	0.0730032	0 *	0.0742225
Isopentane		2.66867 *	4.06951 *	6.01339		6.09113
n-Pentane		3.27749 *	6.56467 *	11.5099	0 *	11.6171
2,2-Dimethylbuta	ne	0.0605987 *	0.143108 *	0.352241	0 *	0.352947
Cyclopentane		0.019727 *	0 *	0.0302729	0 *	0.0315853
2,3-Dimethylbuta	ne	0.0848381 *	0.368278 *	0.963694	0 *	0.966965
2-Methylpentane		0.557508 *	2.18865 *	6.24148	0 *	6.25253
3-Methylpentane		0.315113 *	1.43008 *	4.21738	0 *	4.23586
n-Hexane		0.787783 *	4.46037 *	14.2757	0 *	14.2901
Methylcyclopenta	ine	0.0710173 *	0.394848 *	1.27952	0 *	1.29344
Benzene		0.0109857 *	0.0580553 *	0.144049	0 *	0.221436
Cyclohexane		0.0828535 *	0.664595 *	2.2734	0 *	2.30309
2-Methylhexane		0.155017 *	1.65121 *	6.7524	0 *	6.75569
3-Methylhexane		0.140924 *	1.77689 *	7.26299	0 *	7.26651
2,2,4-Trimethylpe	entane	0 *	0 *	0	0 *	0
n-Heptane		0.352311 *	5.09677 *	21.809	0 *	21.8177
Methylcyclohexar	าย	0.12428 *	1.89963 *	8.09724	0 *	8.11595
Toluene		0.0259168 *	0.340262 *	1.38702	0 *	1.5535
n-Octane		0.417694 *	8.92893 *	44.1954	0 *	44.1987
Ethylbenzene		0.0149311 *	0.358773 *	1.73268	0 *	1.79441
m-Xylene		0.0447932 *	0.343978 *	1.83267	0 *	1.88844
o-Xylene		0.0149311 *	0.742203 *	3.57191	0 *	3.70298
n-Nonane		0.41487 *	6.14985 *	32.994	0 *	32.9953
n-Decane		0.280148 *	6.07888 *	32.6265	0 *	32.6268
C11		0.0659497 *	19.4754 *	101.141	0 *	101.141
Water		0 *	0 *	0.0197081	47157.2 *	47151.9
		0.0000				
			Properties			
Property	Units	Sample Sep Gas	Sample Sep Liquid	Stable Oil	Water	1
Temperature	°F	49 *	49 *	70	70 *	70
Pressure	psia	197.696 *	197.696 *	14.6959	1014.7 *	14.6959

Temperature		40	40	10	10	10
Pressure	psia	197.696 *	197.696 *	14.6959	1014.7 *	14.6959
Mole Fraction Vapor	%	99.7899	0	0	0	0
Mole Fraction Light Liquid	%	0.210132	100	100	100	0.109857
Mole Fraction Heavy Liquid	%	0	0	0	0	99.8901
Molecular Weight	lb/lbmol	22.0583	80.8281	112.274	18.0153	18.1194
Mass Density	lb/ft^3	0.856758	41.7837	44.3086	62.3307	62.103
Molar Flow	lbmol/h	14.064	1.16129	2.87856	2617.62	2620.28
Mass Flow	lb/h	310.228	93.8649	323.189	47157.2	47478
Vapor Volumetric Flow	ft^3/h	362.096	2.24645	7.29404	756.564	764.504
Liquid Volumetric Flow	gpm	45.1444	0.280077	0.909387	94.3249	95.3148
Std Vapor Volumetric Flow	MMSCFD	0.12809 *	0.0105766	0.0262168	23.8403	23.8645
Std Liquid Volumetric Flow	sgpm	1.7661	0.291667 *	0.910608	94.2706 *	95.1827
Compressibility		0.932418	0.0700573	0.00655121	0.0515948	0.000754328
Specific Gravity			0.669943	0.710426	0.999385	0.995735
API Gravity			81.6351	66.377	9.89088	10.4013
Enthalpy	Btu/h	-493860	-93811.7	-296103	-3.21878E+08	-3.22275E+08
Mass Enthalpy	Btu/lb	-1591.92	-999.433	-916.191	-6825.64	-6787.87
Mass Cp	Btu/(lb*°F)	0.490708	0.503909	0.494014	0.981427	0.979818
Ideal Gas CpCv Ratio		1.24402	1.06997	1.04842	1.32584	1.32379
Dynamic Viscosity	cP		0.330885	0.547	1.00885	0.991379

Page 8 of 12
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			All S	reams Report treams by Total Phase			
Client Name:	Chevron Appa	alachia, LLC			Job: 1,191,	143 bbls/yr PW Pro	oduction
Location:	LLC Berger W	Vellpad					
Flowsheet:	Flowsheet1						
			Stream	Properties			
Property		Units	Sample Sep Gas	Sample Sep Liquid	Stable Oil	Water	1
Kinematic Viscosity	/	cSt		0.494367	0.770689	1.01042	0.995945
Kinematic Viscosity Thermal Conductiv		cSt Btu/(h*ft*°F)		0.494367 0.0697798	0.770689 0.073059	1.01042 0.347101	0.995945 0.344426
Thermal Conductiv	ity	Btu/(h*ft*°F)	1201.01	0.0697798	0.073059	0.347101	0.344426
Thermal Conductiv Surface Tension	ity ting Value	Btu/(h*ft*°F) lbf/ft	1201.01 20588.6	0.0697798 0.00118245 ?	0.073059 0.00145104 ?	0.347101 0.00504277	0.344426 0.00500817
Thermal Conductiv Surface Tension Net Ideal Gas Hea	ity ting Value Value	Btu/(h*ft*°F) Ibf/ft Btu/ft^3		0.0697798 0.00118245 ? 4125.45	0.073059 0.00145104 ? 5679.74	0.347101 0.00504277 0	0.344426 0.00500817 6.29617

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	All St	reams Report reams y Total Phase		
Client Name: Chevron Appala			Job: 1,191,	143 bbls/yr PW Production
Location: LLC Berger Wel	lpad			
Flowsheet: Flowsheet1				
		ections		
Frees Dissil	2	6		
From Block To Block	MIX-100 VSSL-101	VSSL-102		
	V35E-101			
	Stream C	omposition		
		omposition		
Mole Fraction	2 %	6 %		
Hydrogen Sulfide	0	0		
Nitrogen	0.0004279	0.495288		
Carbon Dioxide	0.000657391	0.155651		
Methane	0.148988	75.6607		
Ethane	0.110909	16.1051		
Propane	0.0865645	5.28213		
Isobutane	0.0146745	0.485882		
n-Butane	0.0448129	1.15299		
2,2-Dimethylpropane	0.000280628	0.00614311		
Isopentane n-Pentane	0.013638	0.195958 0.244819		
2,2-Dimethylbutane	0.0209392	0.244819		
Cyclopentane	4.59772E-05	0.00039092		
2,3-Dimethylbutane	0.000894332	0.00589038		
2-Methylpentane	0.00546974	0.0336855		
3-Methylpentane	0.00351237	0.0199303		
n-Hexane	0.0107364	0.0528616		
Methylcyclopentane	0.000982493	0.00453565		
Benzene	0.000156339	0.000746137		
Cyclohexane	0.00159388	0.00656428		
2-Methylhexane 3-Methylhexane	0.00332157 0.00353627	0.00980411 0.0100236		
2,2,4-Trimethylpentane	0.00353627	0.0100236		
n-Heptane	0.010125	0.0253336		
Methylcyclohexane	0.00385441	0.00893038		
Toluene	0.00074839	0.00150816		
n-Octane	0.0157123	0.0186958		
Ethylbenzene	0.000679355	0.000665308		
m-Xylene	0.000708608	0.000616456		
o-Xylene	0.00138248	0.00110039		
n-Nonane	0.00998663	0.00528014		
n-Decane	0.00877248	0.00247958		
C11 Water	0.024633 99.4509	0.00310625		
	99.4009	U		
	2	6		· · · · · · · · · · · · · · · · · · ·
Molar Flow	lbmol/h	ہ Ibmol/h		
Hydrogen Sulfide	0	0		
Nitrogen	0.0112626	0.0616483		
Carbon Dioxide	0.017303	0.0193738		
Methane	3.92147	9.41746		
Ethane	2.91922	2.0046		
Propane	2.27844	0.657465		
Isobutane	0.386243	0.0604775		
n-Butane	1.17951	0.143513		
2,2-Dimethylpropane	0.00738633	0.000764631		
Isopentane n-Pentane	0.358963 0.551134	0.0243909 0.0304725		
2,2-Dimethylbutane	0.0102417	0.000395147		
Cyclopentane	0.0012417	4.86576E-05		
2,3-Dimethylbutane	0.0235395	0.000733174		
2-Methylpentane	0.143968	0.00419282		
3-Methylpentane	0.0924481	0.00248072		
n-Hexane	0.28259	0.00657967		
* User Specified Values ? Extrapolated or Approximate Values		3.2.12198.0 2012 BRE Group. Ltd.		Licensed to The ERM Group, Inc. and Affiliates

? Extrapolated or Approximate Values

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		All S	reams Report treams by Total Phase		
Client Name:	Chevron Appala			Job: 1,191	,143 bbls/yr PW Production
Location:	LLC Berger Wel				
Flowsheet:	Flowsheet1				
			1		
		2	6		
Molar Flow		Ibmol/h	Ibmol/h		
Methylcyclopenta	ine	0.0258599	0.000564551		
Benzene Cyclohexane		0.00411496 0.0419521	9.28715E-05 0.000817054		
2-Methylhexane		0.0874263	0.00122031		
3-Methylhexane		0.0930772	0.00124763		
2,2,4-Trimethylpe	entane	0.0000772	0.00124703		
n-Heptane	intano	0.266498	0.00315326		
Methylcyclohexar	ne	0.101451	0.00111156		
Toluene		0.0196982	0.00018772		
n-Octane		0.413559	0.00232706		
Ethylbenzene		0.0178811	8.28107E-05		
m-Xylene		0.0186511	7.67301E-05		
o-Xylene		0.036388	0.000136965		
n-Nonane		0.262856	0.000657217		
n-Decane		0.230898	0.000308632		
C11 Water		0.648358 2617.62	0.000386634		
vvater		2617.62	0		
Maaa Frantian		2	6		
Mass Fraction		<b>%</b>	<b>%</b>	<u>.</u>	
Hydrogen Sulfide		0.000658677	0.660821		
Nitrogen Carbon Dioxide		0.000658677	0.326256		
Methane		0.131337	57.8099		
Ethane		0.183253	23.0645		
Propane		0.209749	11.0934		
Isobutane		0.0468672	1.34503		
n-Butane		0.143123	3.19176		
2,2-Dimethylprop	ane	0.00111256	0.0211095		
Isopentane		0.0540685	0.67337		
n-Pentane		0.0830142	0.841268		
2,2-Dimethylbuta	ne	0.00184255	0.0130298		
Cyclopentane		0.000177186	0.00130578		
2,3-Dimethylbuta	ne	0.00423493	0.0241761		
2-Methylpentane		0.0259009	0.138257		
3-Methylpentane		0.0166321	0.0818007		
n-Hexane	~~~	0.0508401	0.216962 0.0181804		
Methylcyclopenta Benzene		0.00454356 0.00067104	0.00277585		
Cyclohexane		0.00737094	0.0263118		
2-Methylhexane		0.0182888	0.0203118		
3-Methylhexane		0.0194709	0.0478365		
2,2,4-Trimethylpe	entane	0	0		
n-Heptane		0.0557488	0.120902		
Methylcyclohexar	ne	0.0207956	0.0417619		
Toluene		0.00378907	0.00661833		
n-Octane		0.0986231	0.101714		
Ethylbenzene		0.00396317	0.00336407		
m-Xylene		0.00413382	0.00311705		
o-Xylene		0.00806502	0.00556399		
n-Nonane		0.0703814	0.0322538		
n-Decane		0.068586	0.016803		
C11 Water		0.211575	0.0231248		
vvalei		98.4496	0		
		2	6		
Mass Flow		2 lb/h	6 lb/h		
Hydrogen Sulfide		0	0		
Nitrogen		0.315505	1.72698		

			Process Stre All Sti Tabulated by	reams			
	hevron Appala				Job: 1,191,7	143 bbls/yr PW Pro	oduction
	LC Berger Wel	lpad					
Flowsheet: F	lowsheet1						
Mass Flow			2 lb/h	6 Ib/h			
Methane			62.91	151.079			
Ethane			87.778	60.2763			
Propane			100.469	28.9913			
Isobutane			22.4493	3.51509			
n-Butane			68.5556	8.34128			
2,2-Dimethylpropane			0.532915	0.0551672			
Isopentane			25.8987	1.75977			
n-Pentane			39.7637	2.19856			
2,2-Dimethylbutane			0.88258	0.034052			
Cyclopentane			0.0848716	0.0034125			
2,3-Dimethylbutane			2.02852	0.0631815 0.361318			
2-Methylpentane			12.4065				
3-Methylpentane			7.96675	0.213777			
n-Hexane Mothyloyclopoptapo			24.3523	0.567005			
Methylcyclopentane Benzene			2.17636 0.321427	0.0475123 0.00725436			
				0.0687628			
Cyclohexane			3.53067				
2-Methylhexane 3-Methylhexane			8.76028 9.32651	0.122278 0.125015			
			9.32051	0.125015			
2,2,4-Trimethylpentane	;		26.7036	0.315963			
Methylcyclohexane			9.96106	0.10914			
Toluene			1.81496	0.0172962			
n-Octane			47.2402	0.265817			
Ethylbenzene			1.89835	0.205817			
m-Xylene			1.98009	0.00814605			
o-Xylene			3.86313	0.0145408			
n-Nonane			33.7126	0.0842914			
n-Decane			32.8526	0.0439127			
C11			101.344	0.0604341			
Water			47157.2	0.0004041			
Water			41101.2	v			
			Stream P	roperties			
Property		Units	2	. 6			
Temperature		°F	70.0945	70			
Pressure		psia	1014.7	1014.7			
Mole Fraction Vapor		%	0	100			
Mole Fraction Light Lig	uid	%	0.453239	0			
Mole Fraction Heavy L		%	99.5468	0			
Molecular Weight		lb/lbmol	18.1985	20.9961			
Mass Density		lb/ft^3	61.6424	5.02694			
Molar Flow		lbmol/h	2632.07	12.447			
Mass Flow		lb/h	47899.8	261.338			
Vapor Volumetric Flow		ft^3/h	777.059	51.9876			
I the state of the second		gpm	96.8801	6.48157			
Liquid Volumetric Flow	low	MMSCFD	23.9719	0.113362			
Std Vapor Volumetric F		sgpm	97.0308	1.52719			
Std Vapor Volumetric F Std Liquid Volumetric F	Flow		0.0526921	0.745594			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility	Flow			0 70404			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity	Flow		0.98835	0.72494			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity	Flow		0.98835 11.4453				
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy	Flow	Btu/h	0.98835 11.4453 -3.22722E+08	-437605			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy	Flow	Btu/lb	0.98835 11.4453 -3.22722E+08 -6737.44	-437605 -1674.48			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp	Flow		0.98835 11.4453 -3.22722E+08 -6737.44 0.976029	-437605 -1674.48 0.706669			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio	Flow	Btu/lb Btu/(lb*°F)	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218	-437605 -1674.48 0.706669 1.24873			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio Dynamic Viscosity	Flow	Btu/lb Btu/(lb*°F) cP	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218 0.979705	-437605 -1674.48 0.706669 1.24873 0.0132432			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio Dynamic Viscosity Kinematic Viscosity	Flow	Btu/lb Btu/(lb*°F) cP cSt	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218 0.979705 0.985442	-437605 -1674.48 0.706669 1.24873 0.0132432 0.164464			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio Dynamic Viscosity Kinematic Viscosity Thermal Conductivity	Flow	Btu/lb Btu/(lb*°F) cP cSt Btu/(h*ft*°F)	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218 0.979705 0.985442 0.338856	-437605 -1674.48 0.706669 1.24873 0.0132432			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio Dynamic Viscosity Kinematic Viscosity Thermal Conductivity Surface Tension		Btu/lb Btu/(lb*°F) cP cSt Btu/(h*ft*°F) lbf/ft	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218 0.979705 0.985442 0.338856 0.00492149 ?	-437605 -1674.48 0.706669 1.24873 0.0132432 0.164464 0.0220532			
Std Vapor Volumetric F Std Liquid Volumetric F Compressibility Specific Gravity API Gravity Enthalpy Mass Enthalpy Mass Cp Ideal Gas CpCv Ratio Dynamic Viscosity Kinematic Viscosity Thermal Conductivity	Value	Btu/lb Btu/(lb*°F) cP cSt Btu/(h*ft*°F)	0.98835 11.4453 -3.22722E+08 -6737.44 0.976029 1.32218 0.979705 0.985442 0.338856	-437605 -1674.48 0.706669 1.24873 0.0132432 0.164464			

			Process Strea All Stre Tabulated by	eams			
Client Name:	Chevron Appa	alachia, LLC			Job: 1,191	I,143 bbls/yr PW I	Production
Location:	LLC Berger W	/ellpad					
Flowsheet:	Flowsheet1						
			Stream Pr	operties			
Property		Units	2	6			
Gross Ideal Gas He	ating Value	Btu/ft^3	65.8998	1264.57			
Gross Liquid Heatin	g Value	Btu/lb	328.455	22791.5			
Warnings ProMax:ProMax!Pro Warning:			eams!2 s within 10 °F of hydrate	e formation.			
Remarks							

		E	nergy Stream Repo	rt	
Client Name:	Chevron Appal	achia, LLC		Job: 1,191,14	3 bbls/yr PW Production
Location: Flowsheet:	LLC Berger We Flowsheet1	ellpad			
			Energy Streams		
Energy Stream		Energy Rate	Power	From Block	To Block
Q-2 Q-3		-12197.5 Btu/h -67101.3 Btu/h	-4.79381 hp -26.3718 hp		VSSL-102 VSSL-101
Remarks					

Simulation Initiated on 7/2	20/2015 4:14:30 PM	Francis 1,191,1	43bpy_7.20.15.pmx		Page 1 d
		MD	ocks <b>(-100</b> litter Report		
Client Name:	Chevron Appalachia, LLC			Job: 1,191,143 bbls/yr F	PW Production
Location:	LLC Berger Wellpad		Modified: 11:14 AM, 5/18/2015		
Flowsheet:	Flowsheet1		Status: Solved 4:12 PM, 7/20/2015		
		Conn	ections		
Stream	Connection Type	Other Block	Stream	Connection Type	Other Block
Cond	Inlet	-	Water	Inlet	
2	Outlet	VSSL-101			
		Block P	arameters		
			Fraction to PStream 2		100 %

Simulation Initiated on 7/2	20/2015 4:14:30 PM		Francis 1,191,14	13bpy_7.20.15.pmx			Page 1 of
			MIX	OCKS (-101 litter Report			
Client Name:	Chevron Appala	chia, LLC			Job: 1,191,14	3 bbls/yr PW P	roduction
Location:	LLC Berger Wel	pad			Modified: 10:3	34 AM, 5/18/20	15
Flowsheet:	Flowsheet1				Status: Solve	d 4:12 PM, 7/2	0/2015
			Conn	ections			
Stream	Connecti	on Type	Other Block	Stream	Connection	n Type	Other Block
PW	Inl	et	VSSL-101	Stable Oil	Inlet		VSSL-101
1	Out	let					
			Block Pa	arameters			
Pressure Drop			0 psi	Fraction to PStream	1	10	)0 %
Remarks							

Blocks MIX-102 Mixer/Splitter Report         Client Name:       Chevron Appalachia, LLC       Job: 1,191,143 bbls/yr PW Production         Location:       LLC Berger Wellpad       Modified: 10:05 AM, 5/18/2015         Flowsheet:       Flowsheet1       Status: Solved 10:15 AM, 5/18/2015         Connections         Connections         Stream       Connection Type         Other Block       Stream       Connection Type         Sample Sep Liquid       Inlet       Sample Sep Gas       Inlet         Combined Stream       Outlet       VSSL-102	Page 1 c
LLC Berger Wellpad       Modified: 10:05 AM, 5/18/2015         Flowsheet:       Flowsheet1         Status: Solved 10:15 AM, 5/18/2015         Stream       Connection Type         Sample Sep Liquid       Inlet	
Flowsheet:       Flowsheet1       Status: Solved 10:15 AM, 5/18/2015         Connections         Stream       Connection Type       Other Block       Stream       Connection Type       Other         Sample Sep Liquid       Inlet       Sample Sep Gas       Inlet       Sample Sep Gas       Inlet	on
Connections           Stream         Connection Type         Other Block         Stream         Connection Type         Other           Sample Sep Liquid         Inlet         Sample Sep Gas         Inlet	
StreamConnection TypeOther BlockStreamConnection TypeOtherSample Sep LiquidInletSample Sep GasInlet	
Sample Sep Liquid Inlet Sample Sep Gas Inlet	
	r Block
Combined Stream Outlet VSSL-102	
Block Parameters	
Pressure Drop 0 psi Fraction to PStream 100 % Combined Stream	
Remarks	

Simulation Initiated on 7/20/	2015 4:14:30 PM	Francis 1,191,14	3bpy_7.20.15.pmx			Page 1 c
		VSS	ocks L-101 or Report			
Client Name:	Chevron Appalachia, LLC			Job: 1,191,	143 bbls/yr PW	/ Production
Location:	LLC Berger Wellpad			Modified: 12	1:14 AM, 5/18/	2015
Flowsheet:	Flowsheet1			Status: Solv	ved 4:12 PM, 7	//20/2015
				·		
		Conne	ections			
Stream	Connection Type	Other Block	Stream	Connecti	ion Type	Other Block
2	Inlet	MIX-100	Flash	Vapor	Outlet	
Stable Oil	Light Liquid Outlet	MIX-101	PW	Heavy Liq	uid Outlet	MIX-101
Q-3	Energy					
		Block Pa	rameters			
Pressure Drop		1000 psi	Main Liquid Phase		Light Li	quid
Mole Fraction Vapo		8044 %	Heat Duty			01.3 Btu/h
Mole Fraction Light		9365 %	Heat Release Curv	е Туре	Plug l	Flow
Mole Fraction Heav	vy Liquid 99.	4426 %	Heat Release Curv Increments	e		5
Remarks						

		VSS	DCKS L-102 tor Report		
	hevron Appalachia, LLC			Job: 1,191,143 bbls/yr PW Pr	
	_C Berger Wellpad			Modified: 10:20 AM, 5/18/201	
Flowsheet: Fl	owsheet1			Status: Solved 2:30 PM, 7/20/	/2015
		Conn	ections		
Stream	Connection Type	Other Block	Stream	Connection Type	Other Block
Combined Stream	Inlet	MIX-102	6	Vapor Outlet	
Condensate	Light Liquid Outlet		Q-2	Energy	
		Block P	arameters		
Pressure Drop	-81	7 psi	Main Liquid Phase	Light Liquid	t
Mole Fraction Vapor	81.751	7 %	Heat Duty	-12197.5	5 Btu/h
Mole Fraction Light L	iquid 18.248	3 %	Heat Release Curve T	ype Plug Flow	V
Mole Fraction Heavy	Liquid	0 %	Heat Release Curve	5	5
			Increments		
Varnings					
	t!Flowsheets!Flowsheet1!Blocks				
Warning: A	negative pressure drop of -817	psi was encountere	d in block VSSL-102.		

		FI		Environment onment1			
Client Name:	Chevron Appalach	nia, LLC			Job: 1,191,143	bbls/yr PW Producti	on
ocation:	LLC Berger Wellpa					<b>*</b>	
Flowsheet:	Flowsheet1						
		F	Environm	ent Settings			
Number of Poyntin	g Intervals	0		Freeze Out Temperatu Threshold Difference	re	10 °F	
Gibbs Excess Mod Evaluation Temper		77 °F		Phase Tolerance		1 %	
				onents			
Component Name		Henry`s Law Component	Phase Initiator	Component Name		Henry`s Law Component	Phase Initiator
Hydrogen Sulfide		False	False	Methylcyclopentane		False	False
Nitrogen		False	False	Benzene		False	False
Carbon Dioxide		False	False	Cyclohexane		False	False
Methane		False	False	2-Methylhexane		False	False
Ethane		False	False	3-Methylhexane		False	False
Propane		False	False	2,2,4-Trimethylpentane		False	False
Isobutane		False	False	n-Heptane		False	False
n-Butane		False	False	Methylcyclohexane		False	False
2,2-Dimethylpropane	į	False	False	Toluene		False	False
sopentane		False	False	n-Octane		False	False
n-Pentane		False	False	Ethylbenzene		False	False
2,2-Dimethylbutane		False	False	m-Xylene		False	False
Cyclopentane		False	False	o-Xvlene		False	False
2,3-Dimethylbutane		False	False	n-Nonane		False	False
2-Methylpentane		False	False	n-Decane		False	False
3-Methylpentane		False	False	C11		False	False
n-Hexane		False	False	Water		False	True
		Plan.		why Mathead Cata			
Liquid Molar Volume		COSTALD		erty Method Sets Overall Package		Dong Dohing	00
		Peng-Robins		Vapor Package		Peng-Robins Peng-Robins	
Stability Calculation		Peno-Robins				Peno-Robins	OH

Remarks

Calcul	ator Report	
achia, LLC	Job: 1,1	91,143 bbls/yr PW Production
llpad		
0:	La Oaksan d	
	Irce Code	
1		
Calculate	d Variable [CV1]	
ax!Project!Flowsheets!Flowsheet1!	PStreams!Water!Phases!Total!Propert	ies!Std Liquid Volumetric Flow
		19th Liquid Volumetric Freedien Work
ax:FI0JECI:FI0WSNEEIS!FI0WSNEE[1!	r oneams: r:r-nases: rotal!Composition	
		Status: Solved
0.000310217	It a ward a ward	2
	Iterations	
94.2706 sgpm	Max Iterations	20
94.2706 sgpm sgpm	Max Iterations Weighting	1
94.2706 sgpm	Max Iterations	
94.2706 sgpm sgpm sgpm sgpm False	Max Iterations Weighting Priority Solver Active Group	1 0 Active
94.2706 sgpm sgpm sgpm sgpm	Max Iterations Weighting Priority Solver Active	1 0
94.2706 sgpm sgpm sgpm sgpm False	Max Iterations Weighting Priority Solver Active Group	1 0 Active
94.2706 sgpm sgpm sgpm False Default	Max Iterations Weighting Priority Solver Active Group	1 0 Active
94.2706 sgpm sgpm sgpm False Default Simp	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1 0 Active
94.2706 sgpm sgpm sgpm False Default Simp	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active
94.2706 sgpm sgpm sgpm False Default Simp Sou	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1!	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1!	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1!	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1!	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured \ ax!Project!Flowsheets!Flowsheet1!	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1!	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow td Liquid Volumetric Flow
94.2706 sgpm sgpm sgpm False Default Simp Sout 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1!	Max Iterations Weighting Priority Solver Active Group Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow td Liquid Volumetric Flow Status: Solved 2
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1!	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1 0 Active False es!Std Liquid Volumetric Flow td Liquid Volumetric Flow
94.2706 sgpm sgpm sgpm False Default Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured \ ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1       0
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm sgpm sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1       0         Active
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1       0
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm sgpm sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1       0         Active
94.2706 sgpm sgpm sgpm False Default Simp Sou 191143-1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured V ax!Project!Flowsheets!Flowsheet1! Solve -2.55273E-08 2.76019 sgpm sgpm sgpm sgpm sgpm	Max Iterations         Weighting         Priority         Solver Active         Group         Skip Dependency Check	1         0         Active         False         es!Std Liquid Volumetric Flow         td Liquid Volumetric Flow         Status:       Solved         2         20         1       0         Active
	Ilpad Simp Sou 1 Calculated ax!Project!Flowsheets!Flowsheet1! Measured ax!Project!Flowsheets!Flowsheet1!	Ilpad Simple Solver 1 Source Code

		User Va	alue Sets Report		
lient Name: ocation:	Chevron Appala LLC Berger Wel			Job: 1,191	,143 bbls/yr PW Production
		Cn	Flow/Frac.52		
			alue [CnPlusSum]		
Parameter		1167.46 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
Remarks	at was programmat	ically generated CLUD-(10D7	2511 5210 4662 8005 1EDE		
	et was programmat	ically generated. GUID={10D7	F511-F21C-4003-6C95-1EDF	94003207}	
			Tank-1		
			alue [BlockReady]		
Parameter Lower Bound		1 fractional fractional	Upper Bound * Enforce Bounds		fractional False
Lower Bound		Tractional	Enlorce Bounds		Taise
			alue [ShellLength]		
Parameter Lower Bound		20 ft 0 ft	Upper Bound * Enforce Bounds		ft False
Lower Bound		0 11	Enloree Bounds		T dioc
_			alue [ShellDiam]		
Parameter Lower Bound		<u> </u>	Upper Bound * Enforce Bounds		ft False
Lonio: Dound		• •			
Deveryoter			alue [BreatherVP]		
Parameter Lower Bound		0.03 psig psig	Upper Bound * Enforce Bounds		psig False
Parameter		-0.03 psig	ue [BreatherVacP]		psig
Lower Bound		psig	* Enforce Bounds		False
Parameter		User Va 6 ft	Iue [DomeRadius]		ft
Lower Bound		ft	* Enforce Bounds		False
		Lloor \	Value [OpPress]		
Parameter		0.5 psig	Upper Bound		psig
Lower Bound		psig	* Enforce Bounds		False
		Liser Valı	ue [AvgPercentLiq]		
Parameter		50 %	Upper Bound		%
Lower Bound		%	* Enforce Bounds		False
		User Valı	ue [MaxPercentLiq]		
Parameter		90 %	Upper Bound		%
Lower Bound		%	* Enforce Bounds		False
		User V	alue [AnnNetTP]		
Parameter		31.0591 bbl/day	Upper Bound		bbl/day
Lower Bound		0 bbl/day	* Enforce Bounds		False
		User	r Value [OREff]		
					0/
Parameter Lower Bound		0 %	Upper Bound * Enforce Bounds		% False

	User Valu	e Sets Report	
Client Name:	Chevron Appalachia, LLC		Job: 1,191,143 bbls/yr PW Production
_ocation:	LLC Berger Wellpad		
	Lloor Vol		
Parameter	59.9 °F	Je [MaxAvgT] Upper Bound	°F
Lower Bound	°F	* Enforce Bounds	False
	User Val	ue [MinAvgT]	
Parameter	40.7 °F	Upper Bound	°F
Lower Bound	°F	* Enforce Bounds	False
Parameter	User Va 14.1085 psia	alue [AvgP] Upper Bound	psia
Lower Bound	psia	* Enforce Bounds	False
		lue [Therml]	
Parameter	1069 Btu/ft^2/day	Upper Bound	Btu/ft^2/day
Lower Bound	Btu/ft^2/day	* Enforce Bounds	False
	Hann Malana I		
Parameter	User Value [ 9.1 mi/h	AvgWindSpeed] Upper Bound	mi/h
Lower Bound	9.1 111/11 mi/h	* Enforce Bounds	False
201101 200110			
	User Value	[AtmPressure]	
Parameter	14.1085 psia	Upper Bound	psia
Lower Bound	psia	* Enforce Bounds	False
	l leer V		
Parameter	5.54364 psia	Value [TVP]	psia
Lower Bound	psia	* Enforce Bounds	False
	User Value [	AvgLiqSurfaceT]	
Parameter	60.2465 °F	Upper Bound	°F
Lower Bound	۴	* Enforce Bounds	False
	Llees Meless P		
Parameter	<u>User value [</u> 70.3624 °F	MaxLiqSurfaceT] Upper Bound	°F
Lower Bound	^0.3024 F	* Enforce Bounds	False
	User Value	e [TotalLosses]	
Parameter	5.27398 ton/yr	Upper Bound	ton/yr
Lower Bound	ton/yr	* Enforce Bounds	False
		Working eccel	
Parameter	0.421439 ton/yr	WorkingLosses] Upper Bound	ton/yr
Lower Bound	ton/yr	* Enforce Bounds	False
		StandingLosses]	
Parameter	0.897057 ton/yr	Upper Bound	ton/yr
Lower Bound	ton/yr	* Enforce Bounds	False
		RimSealLosses]	
Parameter	0 ton/yr	Upper Bound	ton/yr
Lower Bound	ton/yr	* Enforce Bounds	False
		WithdrawalLoss]	
Parameter	0 ton/yr	Upper Bound	ton/yr
Lower Bound	ton/yr	* Enforce Bounds	False

		User Val	ue Sets Report		
Client Name:	Chevron Appala	chia, LLC		Job: 1,191,	143 bbls/yr PW Production
Location:	LLC Berger Wel	lpad			
			e [LoadingLosses]		
* Parameter		1.01807 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
			[DeckFittingLosses]		
* Parameter		0 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
		Llsor Value	[DeckSeamLosses]		
* Parameter		0 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
		User Value	e [FlashingLosses]		
* Parameter		0.775388 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
			e [GasMoleWeight]		
* Parameter		0.0536473 kg/mol	Upper Bound		kg/mol
Lower Bound		kg/mol	* Enforce Bounds		False
<b>Remarks</b> This User Value Se	et was programmat	ically generated. GUID={4DEAF		4EDE2D6E4}	

	Flowshee Plant Schel		
Client Name:	Chevron Appalachia, LLC	Job: 1.191.143 bbls/	/yr PW Production Blowdown
Location:	Berger Wellpad		
Flowsheet:	Flowsheet1		
	Temper	gerties Condensate from Well dut ef Calo (Calo) 3000° (peig ef Calo) 3000° (peig el	
	Pressure Total 130 FF Pressure Total 130 FF	Total) 70* °F	

Page 1 of 1

Sindiation initiated on 7/20	2013 4.33.33 1 M		Trancisbiowdown 1,1	91,143bpy_7.20.15.pmx			Fage 10112
			All St	eams Report reams <sup>y Total Phase</sup>			
Client Name:	Chevron Appala	chia, LLC			Job: 1,191 Blowdown	,143 bbls/yr PW Pro	oduction
Location:	Berger Wellpad						
Flowsheet:	Flowsheet1						
			0				
				ections	O and an a sta	Et a t	DW/
			Combined Stream	Cond	Condensate from Well	Flash	PW
From Block			MIX-102		VSSL-102	VSSL-101	VSSL-101
To Block			VSSL-102	MIX-100			MIX-101
			Stream Co	omposition			
			Combined	Cond	Condensate	Flash	PW
Mole Fraction			Stream %	%	from Well %	%	%
Hydrogen Sulfide			0	0 *		0	0
Nitrogen			0.419126	0.419126 *		0.41765	5.09215E-06
Carbon Dioxide Methane			0.149093 66.805	0.149093 * 66.805 *		0.146929 66.5469	7.62445E-05 0.0016664
Ethane			16.8518	16.8518 *		16.7756	0.00016664
Propane			7.19486	7.19486 *		7.14763	0.000243339
Isobutane			0.884865	0.884865 *		0.875782	1.02224E-05
n-Butane			2.43177	2.43177 *		2.39912	6.08972E-05
2,2-Dimethylpropane	)		0.0143476	0.0143476 *		0.0141025	1.70014E-07
Isopentane n-Pentane			0.613405 0.895973	0.613405 * 0.895973 *		0.595507 0.862164	1.06024E-05 1.49025E-05
2,2-Dimethylbutane			0.0155259	0.0155259 *		0.0146375	8.8776E-08
Cyclopentane			0.00184745	0.00184745 *		0.00175191	1.95758E-07
2,3-Dimethylbutane			0.034535	0.034535 *		0.0319262	4.47674E-07
2-Methylpentane			0.209303	0.209303 *		0.191879	1.56827E-06
3-Methylpentane			0.133013	0.133013 *		0.120807	2.72415E-06
n-Hexane Methylcyclopentane			0.399997 0.0363572	0.399997 *		0.355392 0.0321675	2.3207E-06 2.30595E-06
Benzene			0.00580528	0.00580528 *		0.00481802	1.69323E-05
Cyclohexane			0.0583326	0.0583326 *		0.0500295	5.50046E-06
2-Methylhexane			0.118394	0.118394 *		0.0914127	6.84775E-07
3-Methylhexane			0.125708	0.125708 *		0.0960719	7.49263E-07
2,2,4-Trimethylpenta	ne		0	0 *		0	0
n-Heptane Methylcyclohexane			0.357175 0.135387	<u>0.357175</u> * 0.135387 *		0.256961 0.0979105	2.10778E-06 4.52624E-06
Toluene			0.0261027	0.0261027 *		0.0170835	4.95507E-05
n-Octane			0.53742	0.53742 *		0.236544	1.17023E-06
Ethylbenzene			0.0231196	0.0231196 *		0.00921101	2.49678E-05
m-Xylene			0.0240517	0.0240517 *		0.00858553	2.38483E-05
o-Xylene n-Nonane			0.0468409 0.336182	0.0468409 * 0.336182 *		0.0155111 0.0668833	5.79543E-05 5.35973E-07
n-Nonane n-Decane			0.336182	0.293546 *		0.0668833	1.03117E-07
C11			0.821119	0.821119 *		0.0179876	1.13297E-07
Water			0	0 *		2.47989	99.9972
			Combined Stream	Cond	Condensate from Well	Flash	PW
Molar Flow			Ibmol/h	lbmol/h	lbmol/h	Ibmol/h	lbmol/h
Hydrogen Sulfide Nitrogen			0.0638133	<u> </u>	0	0.513323	0.000133273
Carbon Dioxide			0.0226999	0.182655 *	0	0.180586	0.00199549
Methane			10.1713	81.8431 *	0	81.791	0.0436133
Ethane			2.56575	20.6453 *	0	20.6184	0.0129954
Propane			1.09544	8.81447 *	0	8.78496	0.00636873
Isobutane n-Butane			0.134724 0.370245	<u>1.08405</u> * 2.97918 *	0	1.0764 2.94869	0.000267544 0.00159381
2,2-Dimethylpropane	9		0.00218448	0.0175774 *	0	0.017333	4.44964E-06
Isopentane			0.0933928	0.751485 *	0	0.731922	0.000277488
n-Pentane			0.136415	1.09766 *	0	1.05966	0.000390031
2,2-Dimethylbutane			0.00236386	0.0190208 *	0	0.0179906	2.32347E-06
Cyclopentane			0.000281281	0.00226332 *	0	0.00215323	5.12343E-06

\* User Specified Values ? Extrapolated or Approximate Values

Client Name:       Chevron Appa         Location:       Berger Wellpa         Flowsheet:       Flowsheet1         Molar Flow       2.3-Dimethylbutane         2.3-Dimethylbutane       2.3-Dimethylbutane         2-Methylpentane       1         n-Hexane       Methylcyclopentane         Benzene       Cyclohexane         2-Methylhexane       3         2.4-Trimethylpentane       1         n-Heptane       Methylcyclohexane         7oluene       1         n-Octane       Ethylbenzene         m-Xylene       0         o-Xylene       1         Water       1         Mass Fraction       Hydrogen Sulfide         Nitrogen       Carbon Dioxide         Methane       Ethane         Propane       Isobutane         n-Butane       2,2-Dimethylpropane         Isopentane       2,3-Dimethylpropane         Isopentane       2,2-Dimethylpropane         Sobutane       1         Propane       1         Sobutane       1         Propane       1         Sobutane       1         Nethylpentane       2,2-Dimethylpropane	d	Combined Stream Ibmol/h 0.00525807 0.0318671 0.0202517 0.0609008 0.0055355 0.000883873 0.00888133 0.0180259 0.0191395 0.00191395 0.00191395 0.00191395 0.00352003 0.0036195 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.0125018 0.02618 0.00713168 0.0511849 0.0446933 0.0125018 0.0125018 0.0125018	Cond Ibmol/h 0.0423091 * 0.256419 * 0.162955 * 0.490039 * 0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0.145046 * 0.154006 * 0.154006 * 0.1658363 * 0.0319786 * 0.0283239 * 0.0294659 * 0.0294659 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0.* Cond	Blowdown  Condensate from Well Ibmol/h  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I43 bbls/yr PW Pro           Flash           Ibmol/h           0.0392396           0.235833           0.148481           0.436802           0.0395362           0.0059217           0.0614899           0.112353           0.112353           0.118079           0           0.315823           0.120339           0.020969           0.29073           0.011321           0.0105522           0.0190643           0.0221081           3.04797           Flash	PW           1.17166E-05           4.1045E-05           7.12971E-05           6.0352E-05           0.000443156           0.000143959           1.79221E-05           1.96099E-05           0           5.51653E-05           0.000118462           0.00129685           3.06275E-05           0.000653463           0.000151679           1.40276E-05           2.69879E-06           2.96523E-06           2617.15
Flowsheet:       Flowsheet1         Molar Flow       2,3-Dimethylbutane         2.Methylpentane       3-Methylpentane         3-Methylpentane       8         Methylcyclopentane       8         Benzene       Cyclohexane         2.Methylhexane       3         3-Methylhexane       2         2.Methylhexane       3         3-Methylhexane       2         2.4-Trimethylpentane       1         n-Heptane       1         Methylcyclohexane       1         Toluene       1         n-Octane       1         Ethylbenzene       1         m-Xylene       0         0-Xylene       0         n-Nonane       1         n-Decane       1         Water       1         Water       1         Mass Fraction       1         Hydrogen Sulfide       1         Nitrogen       2         Carbon Dioxide       1         Methane       1         Ethane       1         Propane       1         Isobutane       1         n-Butane       2         2,2-Dimethylbutane<		Stream           Ibmol/h           0.00525807           0.0318671           0.0202517           0.0609008           0.0055355           0.0088873           0.00888133           0.0180259           0.0191395           0           0.054381           0.0206131           0.00397422           0.0818239           0.00366195           0.00713168           0.0511849           0.0446933           0.125018           0           0.205188	Ibmol/h           0.0423091         *           0.256419         *           0.162955         *           0.490039         *           0.0445414         *           0.00711209         *           0.0714636         *           0.145046         *           0.154006         *           0.145046         *           0.154006         *           0.165863         *           0.165863         *           0.0319786         *           0.0283239         *           0.0283239         *           0.057385         *           0.411859         *           0.359624         *           1.00596         *	from Well Ibmol/h           0	Ibmol/h 0.0392396 0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	Ibmol/h           1.17166E-05           4.1045E-05           7.12971E-05           6.07378E-05           6.0352E-05           0.000443156           0.000143959           1.79221E-05           1.96099E-05           0           5.51653E-05           0.000118462           0.00129685           3.06275E-05           0.000653463           0.000524165           0.00151679           1.40276E-05           2.69879E-06           2.96523E-06           2617.15
Molar Flow         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane         Benzene         Cyclohexane         2-Methylhexane         3-Methylhexane         2-Methylhexane         2-Methylhexane         2-Methylhexane         2-Methylhexane         2,2,4-Trimethylpentane         n-Heptane         Methylcyclohexane         Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Nonane         n-Decane         C11         Water         Mass Fraction         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         n-Pentane         2,3-Dimethylbutane         2,3-Dimethylpotane         3-Methylpentane         n-Hexane         Methylycy		Stream           Ibmol/h           0.00525807           0.0318671           0.0202517           0.0609008           0.0055355           0.0088873           0.00888133           0.0180259           0.0191395           0           0.054381           0.0206131           0.00397422           0.0818239           0.00366195           0.00713168           0.0511849           0.0446933           0.125018           0           0.205188	Ibmol/h           0.0423091         *           0.256419         *           0.162955         *           0.490039         *           0.0445414         *           0.00711209         *           0.0714636         *           0.145046         *           0.154006         *           0.145046         *           0.154006         *           0.165863         *           0.165863         *           0.0319786         *           0.0283239         *           0.0283239         *           0.057385         *           0.411859         *           0.359624         *           1.00596         *	from Well Ibmol/h           0	Ibmol/h 0.0392396 0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	Ibmol/h           1.17166E-05           4.1045E-05           7.12971E-05           6.07378E-05           6.0352E-05           0.000443156           0.000143959           1.79221E-05           1.96099E-05           0           5.51653E-05           0.000118462           0.00129685           3.06275E-05           0.000653463           0.000524165           0.00151679           1.40276E-05           2.69879E-06           2.96523E-06           2617.15
2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-MethylpentaneHeptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		Stream           Ibmol/h           0.00525807           0.0318671           0.0202517           0.0609008           0.0055355           0.0088873           0.00888133           0.0180259           0.0191395           0           0.054381           0.0206131           0.00397422           0.0818239           0.00366195           0.00713168           0.0511849           0.0446933           0.125018           0           0.205188	Ibmol/h           0.0423091         *           0.256419         *           0.162955         *           0.490039         *           0.0445414         *           0.00711209         *           0.0714636         *           0.145046         *           0.154006         *           0.145046         *           0.154006         *           0.165863         *           0.165863         *           0.0319786         *           0.0283239         *           0.0283239         *           0.057385         *           0.411859         *           0.359624         *           1.00596         *	from Well Ibmol/h           0	Ibmol/h 0.0392396 0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	Ibmol/h           1.17166E-05           4.1045E-05           7.12971E-05           6.07378E-05           6.0352E-05           0.000443156           0.000143959           1.79221E-05           1.96099E-05           0           5.51653E-05           0.000118462           0.00129685           3.06275E-05           0.000653463           0.000524165           0.00151679           1.40276E-05           2.69879E-06           2.96523E-06           2617.15
2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-MethylpentaneHeptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		Stream           Ibmol/h           0.00525807           0.0318671           0.0202517           0.0609008           0.0055355           0.0088873           0.00888133           0.0180259           0.0191395           0           0.054381           0.0206131           0.00397422           0.0818239           0.00366195           0.00713168           0.0511849           0.0446933           0.125018           0           0.205188	Ibmol/h           0.0423091         *           0.256419         *           0.162955         *           0.490039         *           0.0445414         *           0.00711209         *           0.0714636         *           0.145046         *           0.154006         *           0.145046         *           0.154006         *           0.165863         *           0.165863         *           0.0319786         *           0.0283239         *           0.0283239         *           0.057385         *           0.411859         *           0.359624         *           1.00596         *	from Well Ibmol/h           0	Ibmol/h 0.0392396 0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	Ibmol/h           1.17166E-05           4.1045E-05           7.12971E-05           6.07378E-05           6.0352E-05           0.000443156           0.000143959           1.79221E-05           1.96099E-05           0           5.51653E-05           0.000118462           0.00129685           3.06275E-05           0.000653463           0.000524165           0.00151679           1.40276E-05           2.69879E-06           2.96523E-06           2617.15
2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-MethylpentaneHeptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.00525807 0.0318671 0.0202517 0.0609008 0.0055355 0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00362003 0.0036195 0.00713168 0.00311849 0.0446933 0.125018 0 0 Combined Stream	0.0423091 * 0.256419 * 0.162955 * 0.490039 * 0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0.154006 * 0.437577 * 0.165863 * 0.0319786 * 0.0283239 * 0.0283239 * 0.0294659 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0392396 0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.020969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	1.17166E-05 4.1045E-05 7.12971E-05 6.07378E-05 6.0352E-05 0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2.96523E-06
2-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylpentane n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane 3-Methylpentane 3-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.0318671 0.0202517 0.0609008 0.0055355 0.000888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.00713168 0.0511849 0.0446933 0.125018 0 0	0.256419 * 0.162955 * 0.490039 * 0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0.154006 * 0.437577 * 0.165863 * 0.0319786 * 0.0283239 * 0.0283239 * 0.028459 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.235833 0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.020969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	4.1045E-05 7.12971E-05 6.07378E-05 6.0352E-05 0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000653463 0.000624165 0.001653463 0.000624165 0.001679 1.40276E-05 2.69879E-06 2.69879E-06 2.69879E-06 2.617.15 PW
3-Methylpentane n-Hexane Methylcyclopentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpentane n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.0202517 0.0609008 0.0055355 0.000883873 0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.00713168 0.0511849 0.0446933 0.125018 0 0 Combined Stream	0.162955 * 0.490039 * 0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0 * 0.437577 * 0.165863 * 0.0319786 * 0.0283239 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.148481 0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	7.12971E-05 6.07378E-05 6.0352E-05 0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000653463 0.000654165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
n-Hexane         Methylcyclopentane         Benzene         Cyclohexane         2-Methylhexane         3-Methylhexane         2,2,4-Trimethylpentane         n-Heptane         Methylcyclohexane         Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Decane         C11         Water             Mass Fraction         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,3-Dimethylbutane         2,3-Dimethylpentane         3-Methylpentane         3-Methylpentane		0.0609008 0.0055355 0.000883873 0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0	0.490039 * 0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0.437577 * 0.165833 * 0.0319786 * 0.0283239 * 0.028459 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.436802 0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	6.07378E-05 6.0352E-05 0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000653463 0.000654165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15
Methylcyclopentane         Benzene         Cyclohexane         2-Methylhexane         3-Methylhexane         2,2,4-Trimethylpentane         n-Heptane         Methylcyclohexane         Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Decane         C11         Water             Mass Fraction             Hydrogen Sulfide             Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         n-Pentane         2,2-Dimethylbutane         2,3-Dimethylbutane         2,3-Dimethylpropane         Isopentane         n-Hexane		0.0055355 0.000883873 0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0 Combined Stream	0.0445414 * 0.00711209 * 0.0714636 * 0.145046 * 0.154006 * 0 * 0.437577 * 0.1658336 * 0.0319786 * 0.0283239 * 0.028459 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0395362 0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	6.0352E-05 0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000653463 0.000654165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
Benzene         Cyclohexane         2-Methylhexane         3-Methylhexane         2,2,4-Trimethylpentane         n-Heptane         Methylcyclohexane         Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Decane         C11         Water             Mass Fraction             Hydrogen Sulfide             Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,3-Dimethylbutane         2,3-Dimethylbutane         2,3-Dimethylpentane         3-Methylpentane         3-Methylpentane         n-Hexane		0.000883873 0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0 Combined Stream	0.00711209 * 0.0714636 * 0.145046 * 0.154006 * 0.437577 * 0.165863 * 0.0319786 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0059217 0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.000443156 0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpentane n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water  Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Nethylcyclopentane Nethylcyclopentane Nethylcyclopentane Methylcyclopentane		0.00888133 0.0180259 0.0191395 0 0.054381 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0 Combined Stream	0.0714636 * 0.145046 * 0.154006 * 0 * 0.437577 * 0.165863 * 0.0319786 * 0.0294659 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0614899 0.112353 0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.000143959 1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2.96523E-06 2617.15 PW
2-Methylhexane 3-Methylhexane 2,2,4-Trimethylpentane n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water  Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane Methylcyclopentane		0.0191395 0 0.054381 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0 0 0 0 0 0 0 0 0 0 0 0	0.154006 * 0 * 0.437577 * 0.165863 * 0.0319786 * 0.0283239 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.118079 0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	1.79221E-05 1.96099E-05 0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 PW
2,2,4-Trimethylpentane n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water  Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 2,3-Dimethylputane 3-Methylpentane n-Hexane Methylcyclopentane		0 0.054381 0.0206131 0.00397422 0.0818239 0.00352003 0.00352003 0.00713168 0.0511849 0.0446933 0.125018 0 0 0 0 0 0 0 0 0 0 0 0 0	0 * 0.437577 * 0.165863 * 0.0319786 * 0.058396 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0 5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2.96523E-06 2617.15 PW
n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,3-Dimethylputane 2-Methylpentane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.054381 0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 0 Combined Stream	0.437577 * 0.165863 * 0.0319786 * 0.058396 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.315823 0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	5.51653E-05 0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2.617.15 PW
Methylcyclohexane         Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Nonane         n-Decane         C11         Water         Mass Fraction         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,3-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		0.0206131 0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.165863 * 0.0319786 * 0.658396 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.120339 0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.000118462 0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
Toluene         n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Nonane         n-Decane         C11         Water         Mass Fraction         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,3-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		0.00397422 0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.0319786 * 0.658396 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0209969 0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.00129685 3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
n-Octane         Ethylbenzene         m-Xylene         o-Xylene         n-Nonane         n-Decane         C11         Water         Mass Fraction         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,3-Dimethylbutane         2,3-Dimethylpropane         3-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		0.0818239 0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.658396 * 0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0 0 0 0	0.29073 0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	3.06275E-05 0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
Ethylbenzene m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.00352003 0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.0283239 * 0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 0 0 0	0.011321 0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.000653463 0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
m-Xylene o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylputane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane		0.00366195 0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.0294659 * 0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0 0 <b>Condensate</b>	0.0105522 0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.000624165 0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
o-Xylene n-Nonane n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylputane 3-Methylpentane n-Hexane Methylcyclopentane		0.00713168 0.0511849 0.0446933 0.125018 0 Combined Stream	0.057385 * 0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 0 0	0.0190643 0.0822045 0.0260948 0.0221081 3.04797	0.00151679 1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
n-Nonane         n-Decane         C11         Water         Image: Comparison of the system         Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         -Pentane         2,3-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		0.0511849 0.0446933 0.125018 0 Combined Stream	0.411859 * 0.359624 * 1.00596 * 0 *	0 0 0 0 Condensate	0.0822045 0.0260948 0.0221081 3.04797	1.40276E-05 2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
n-Decane C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylpropane Isopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane		0.0446933 0.125018 0 Combined Stream	0.359624 * 1.00596 * 0 *	0 0 0 Condensate	0.0260948 0.0221081 3.04797	2.69879E-06 2.96523E-06 2617.15 <b>PW</b>
C11 Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,3-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane		0.125018 0 Combined Stream	1.00596 * 0 *	0 0 Condensate	0.0221081 3.04797	2.96523E-06 2617.15 <b>PW</b>
Water Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,2-Dimethylpropane Sopentane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane	C	0 Combined Stream	0 *	Condensate	3.04797	2617.15 PW
Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane	C	Stream	Cond		Flash	
Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane	C	Stream	Cond		Flash	
Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,2-Dimethylbutane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane						
Hydrogen Sulfide         Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         n-Pentane         2,2-Dimethylbutane         Cyclopentane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane				from Well		
Nitrogen         Carbon Dioxide         Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         n-Pentane         2,2-Dimethylbutane         Cyclopentane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		%	%	%	%	%
Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane n-Hexane Methylcyclopentane		0	0 44228 *		0	0
Methane         Ethane         Propane         Isobutane         n-Butane         2,2-Dimethylpropane         Isopentane         n-Pentane         2,2-Dimethylbutane         Cyclopentane         2,3-Dimethylbutane         2-Methylpentane         3-Methylpentane         n-Hexane         Methylcyclopentane		0.44238 0.247223	0.44238 * 0.247223 *		0.484215 0.267616	7.91805E-06 0.000186254
Ethane Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		40.3798	40.3798 *		44.1833	0.00148389
Propane Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		19.092	19.092 *		20.8764	0.000828742
Isobutane n-Butane 2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		11.9537	11.9537 *		13.0442	0.000595606
2,2-Dimethylpropane Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		1.93778	1.93778 *		2.10668	3.29798E-05
Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		5.32537	5.32537 *		5.77102	0.000196467
n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.0390027	0.0390027 *		0.0421099	6.8087E-07
2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		1.66748	1.66748 *		1.77818	4.24603E-05
Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		2.43562	2.43562 *		2.57441	5.96814E-05
2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.0504108	0.0504108 *		0.0522048	4.24649E-07
2-Methylpentane 3-Methylpentane n-Hexane Methylcyclopentane		0.0048818	0.0048818 *		0.00508502	7.62067E-07
3-Methylpentane n-Hexane Methylcyclopentane		0.112132	0.112132 *		0.113865	2.1414E-06
n-Hexane Methylcyclopentane		0.679586	0.679586 *		0.684335	7.50161E-06
Methylcyclopentane		0.431879 1.29875	0.431879 * 1.29875 *		0.43086 1.26751	1.30306E-05 1.11008E-05
		0.115286	0.115286 *		0.112042	1.07722E-05
Benzene		0.0170854	0.0170854 *		0.0155756	7.34149E-05
Cyclohexane		0.184969	0.184969 *		0.174256	2.56953E-05
2-Methylhexane		0.446984	0.446984 *		0.37909	3.80869E-06
3-Methylhexane		0.474597	0.474597 *		0.398412	4.16737E-06
2,2,4-Trimethylpentane		0	0 *		0	0
n-Heptane		1.34847	1.34847 *		1.06562	1.17234E-05
Methylcyclohexane		0.500853	0.500853 *		0.397868	2.46683E-05
Toluene		0.0906173	0.0906173 *		0.0651444	0.000253421
n-Octane		2.31299	2.31299 *		1.11827	7.41987E-06
Ethylbenzene	1	0.0924796	0.0924796 *		0.0404714	0.000147134
m-Xylene		0.0962083	0.0962083 *		0.0377232	0.000140537
o-Xylene n-Nonane		0.187366 1.62456	0.187366 * 1.62456 *		0.0681527 0.355019	0.000341522 3.81565E-06
n-Nonane n-Decane		1.62456	1.57365 *		0.355019	3.81565E-06 8.14383E-07
C11					0.125021	9.82995E-07
Water		4.83585	4.83585 *		0.110000	99.9955

			Process Stre All Str Tabulated by	reams				
Client Name: C	Chevron Appala	ichia, LLC			Job: 1,191,143 bbls/yr PW Pro Blowdown			
Location: E	Berger Wellpad							
	lowsheet1							
				-	· · · ·		r	
			Combined Stream	Cond	Condensate from Well	Flash	PW	
Mass Flow			lb/h	lb/h	lb/h	lb/h	lb/h	
Hydrogen Sulfide			0	0 *	0	0	0	
Nitrogen Carbon Dioxide			1.78763 0.99901	14.3841 * 8.03853 *	0	14.3799 7.9475	0.00373343 0.0878204	
Methane			163.172	8.03853 * 1312.97 *	0	1312.13	0.0878204	
Ethane			77.1495	620.784 *	0	619.976	0.899665	
Propane			48.3042	388.679 *	0	387.378	0.390759	
Isobutane			7.83043	63.0075 *	0	62.5628	0.0155502	
n-Butane			21.5194	173.156 *	0	171.384	0.092636	
2,2-Dimethylpropane			0.157607	1.26819 *	0	1.25055	0.000321036	
Isopentane			6.73818	54.2188 *	0	52.8073	0.0200204	
n-Pentane			9.84216	79.195 *	0	76.4534	0.0281403	
2,2-Dimethylbutane			0.203707	1.63913 *	0	1.55035	0.000200226	
Cyclopentane			0.019727	0.158734 *	0	0.151012	0.000359321	
2,3-Dimethylbutane			0.453116	3.646 *	0	3.38149	0.00100969	
2-Methylpentane			2.74616	22.097 *	0	20.323	0.00353707	
3-Methylpentane			1.74519	14.0427 *	0	12.7954	0.00614405	
n-Hexane			5.24815	42.2292 *	0	37.6416	0.0052341	
Methylcyclopentane			0.465865	3.74858 *	0	3.32735	0.00507919	
Benzene			0.069041	0.555538 *	0	0.462555	0.0346157	
Cyclohexane			0.747448	6.01434 *	0	5.17496	0.0121155	
2-Methylhexane			1.80623	14.5338 *	0	11.258	0.00179583	
3-Methylhexane			1.91781	15.4317 *	0	11.8318	0.00196495	
2,2,4-Trimethylpentane	е		0	0 *	0	0	0	
n-Heptane			5.44908	43.8461 *	0	31.6461	0.00552767	
Methylcyclohexane			2.02391	16.2854 *	0	11.8156	0.0116313	
Toluene n-Octane			0.366178	2.94645 *	0	1.93462	0.11949	
			9.34662	75.2076 * 3.00701 *	0	33.2097 1.20189	0.00349853 0.0693749	
Ethylbenzene m-Xylene			0.373704	3.12825 *	0	1.120189	0.0693749	
o-Xylene			0.757134	6.09228 *	0	2.02396	0.0662644	
n-Nonane			6.56472	52.823 *	0	10.5431	0.00179911	
n-Decane			6.35903	51.1679 *	0	3.71281	0.000383988	
C11			19.5413	157.239 *	0	3.45568	0.00046349	
Water			0	0 *	0	54.91	47148.7	
					~			
			Stream P					
Property		Units	Combined Stream	Cond	Condensate from Well	Flash	PW	
Temperature		°F	48.7939	135 *	135 *	70 *	70	
Pressure		psia	197.696	3914.7 *	3914.7 *	14.6959 *	14.6959	
Mole Fraction Vapor		%	92.218	100		100	0	
Mole Fraction Light Lic		%	7.78205	0		0	100	
Mole Fraction Heavy L	iquid	%	0	0		0	0	
Molecular Weight		lb/lbmol	26.5409	26.5409		24.1624	18.0156	
Mass Density		lb/ft^3	1.10928	20.4182		0.0627923	62.2743	
Molar Flow		lbmol/h	15.2253	122.511	0	122.907	2617.22	
Maga Flow		lh/h	404 002	2251 54	0	2060 74	47150 9	

Vapor Volumetric Flow ft^3/h 364.283 159.247 47294.7 Liquid Volumetric Flow 45.4171 19.8541 5896.48 gpm MMSCFD Std Vapor Volumetric Flow 0.138667 1.11578 0 1.11939 Std Liquid Volumetric Flow 2.05777 16.5579 0 15.7387 sgpm 0.866854 0.000747942 Compressibility 0.797361 0.994862 0.834263 Specific Gravity 0.916384 **API Gravity** -587672 -4.82136E+06 -4.62089E+06 -3.21956E+08 Enthalpy Btu/h 0 Mass Enthalpy Btu/lb -1454.3 -1482.79 -1555.99 Btu/(lb\*°F) Mass Cp 0.493609 0.750782 0.4585

404.093

lb/h

\* User Specified Values

Mass Flow

? Extrapolated or Approximate Values

3251.54

0

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47150.8

757.147

94.3976

23.8367

94.2636

0.998482

10.0159

-6828.22

0.983149

2969.74

			Process Stre All Str Tabulated by	· · · · · · · · · · · · · · · · · · ·				
Client Name:	Chevron Appalac	chia, LLC Jot Blo					143 bbls/yr PW Pro	duction
Location:	Berger Wellpad	ger Wellpad						
Flowsheet:	Flowsheet1							
			Stream P	roperties				
Property		Units	Combined Stream	Cond		ensate i Well	Flash	PW
Ideal Gas CpCv F	Ratio		Combined	Cond 1.18432			1.21953	1.32584
Ideal Gas CpCv F Dynamic Viscosity	Ratio	сР	Combined Stream	Cond 1.18432 0.0411885			1.21953 0.0101401	1.32584 0.995648
Ideal Gas CpCv F Dynamic Viscosity Kinematic Viscosi	Ratio y ty	cP cSt	Combined Stream	Cond 1.18432 0.0411885 0.125932			1.21953 0.0101401 10.0812	1.32584 0.995648 0.998105
Ideal Gas CpCv F Dynamic Viscosity Kinematic Viscosi Thermal Conducti	Ratio / ty /vity	сР	Combined Stream	Cond 1.18432 0.0411885			1.21953 0.0101401	1.32584 0.995648
Ideal Gas CpCv F Dynamic Viscosity Kinematic Viscosi Thermal Conducti Surface Tension	Ratio / ty vity	cP cSt Btu/(h*ft*°F)	Combined Stream	Cond 1.18432 0.0411885 0.125932			1.21953 0.0101401 10.0812	1.32584 0.995648 0.998105 0.347051
Ideal Gas CpCv F Dynamic Viscosity Kinematic Viscosi Thermal Conducti Surface Tension Net Ideal Gas Hea	Ratio y ty ty vity ating Value	cP cSt Btu/(h*ft*°F) lbf/ft	Combined Stream 1.20515	Cond           1.18432           0.0411885           0.125932           0.0493632			1.21953 0.0101401 10.0812 0.0159018	1.32584 0.995648 0.998105 0.347051 0.00504253
Ideal Gas CpCv F	Ratio y ty ty vity ating Value g Value	cP cSt Btu/(h*ft*°F) lbf/ft Btu/ft^3	Combined Stream 1.20515 1424.07	Cond 1.18432 0.0411885 0.125932 0.0493632 1424.07			1.21953 0.0101401 10.0812 0.0159018 1281.18	1.32584 0.995648 0.998105 0.347051 0.00504253 0.0411074

Remarks

\* User Specified Values ? Extrapolated or Approximate Values

Client Name: Location: Flowsheet: From Block To Block	Chevron Appala Berger Wellpad Flowsheet1	chia, LLC					
Flowsheet: From Block					Job: 1,19 Blowdowr	1,143 bbls/yr PW Pro	duction
From Block	Flowsheet1				Diowdowi		
			Conne	ections			
		Sample S Gas	ер	Sample Sep Liquid	Stable Oil	Water	1
To Block					VSSL-101		MIX-101
		MIX-102	2	MIX-102	MIX-101	MIX-100	
				omposition	1		
		Sample S	ер	Sample Sep	Stable Oil	Water	1
Mole Fraction		Gas		Liquid	0/	0/	0/
		%	0 *	<mark>%</mark>	%	% 0 *	<u> </u>
Hydrogen Sulfide Nitrogen			.452 *	0.0210002 *	0.000675304	0 *	5.752E-06
Carbon Dioxide			.4 <u>52</u> 0.16 *	0.0210002 *	0.00283177	0 *	7.89574E-05
Methane			.877 *	5.37905 *	0.332058	0 *	0.00199168
Ethane			. <i>677</i> .518 *	<u> </u>	0.537693	0 *	0.00102543
Propane			.744 *	12.6551 *	0.897115	0 *	0.00112635
Isobutane			.744 .688 *	3.26903 *	0.286287	0 *	0.000292076
n-Butane			.672 *	11.6331 *	1.12008	0 *	0.00116361
2,2-Dimethylpropan	e		0.01 *	0.0670007 *	0.00930204	0 *	9.32816E-06
Isopentane	0		.263 *	4.85705 *	0.747718	0 *	0.000746757
n-Pentane			.323 *	7.83508 *	1.45808	0 *	0.00145044
2,2-Dimethylbutane			.005 *	0.143001 *	0.0398511	0 *	3.93241E-05
Cyclopentane			.002 *	0 *	0.00406992	0 *	4.2026E-06
2,3-Dimethylbutane			.007 *	0.368004 *	0.118549	0 *	0.000117165
2-Methylpentane		0.	.046 *	2.18702 *	0.796527	0 *	0.000785786
3-Methylpentane		0.	.026 *	1.42901 *	0.558378	0 *	0.000552472
n-Hexane			.065 *	4.45704 *	2.0616	0 *	0.00203207
Methylcyclopentane			.006 *	0.404004 *	0.191711	0 *	0.000191053
Benzene		-	.001 *	0.0640006 *	0.0289702	0 *	4.54382E-05
Cyclohexane			.007 *	0.680007 *	0.381101	0 *	0.000380707
2-Methylhexane			.011 *	1.41901 *	1.26679	0 *	0.0012479
3-Methylhexane		(	0.01 *	1.52702 *	1.3921	0 *	0.00137134
2,2,4-Trimethylpenta	ane		0 *	* 0	0	0 *	0
n-Heptane			.025 *	4.38004 *	4.71822	0 *	0.00464743
Methylcyclohexane			.009 *	1.66602 *	1.76035	0 *	0.00173768
Toluene			.002 *	0.318003 *	0.375479	0 *	0.000419179 0.0140341
n-Octane Ethylbenzene			.026 * .001 *	<u> </u>	0.633865	0 *	0.000649014
m-Xvlene			.001	0.279003 *	0.709081	0 *	0.000721949
o-Xylene			.003	0.602006 *	1.42688	0 *	0.00146273
n-Nonane			.023 *	4.12904 *	12.7801	0 *	0.0125832
n-Decane			.014 *	3.67904 *	12.9308	0 *	0.0127311
C11			.003 *	10.7291 *	38.1436	0 *	0.0375543
Water			0 *	0 *	0.0370287	100 *	99.8988
		Sample S Gas	ер	Sample Sep Liquid	Stable Oil	Water	1
Molar Flow		lbmol/h	I	lbmol/h	lbmol/h	lbmol/h	lbmol/h
Hydrogen Sulfide			0 *	0 *	0	0 *	0
Nitrogen		0.0635		0.000243873 *	1.74183E-05	0 *	0.000150691
Carbon Dioxide		0.0225		0.000197421 *	7.30405E-05	0 *	0.00206853
Methane			088 *	0.0624664 *	0.00856486	0 *	0.0521782
Ethane			6374 *	0.102009 *	0.0138689	0 *	0.0268642
Propane		0.948		0.146963 *	0.0231395	0 *	0.0295082
Isobutane n-Butane		0.0967		0.037963 * 0.135094 *	0.00738427	0 *	0.00765181 0.0304843
2,2-Dimethylpropan	۵	0.235		0.135094	0.00288905	0 *	0.000244379
Isopentane	0	0.0369		0.0564044 *	0.00023993	0 *	0.0195636
n-Pentane		0.0454		0.090988 *	0.0376086	0 *	0.0379986
2,2-Dimethylbutane		0.000703		0.00166066 *	0.00102789	0 *	0.00103021
Cyclopentane		0.000703		0.00100000	0.000102789	0 *	0.000103021
-,		0.000201		3.2.12198.0	0.000104010	V	0.0001101

? Extrapolated or Approximate Values

			All St	reams Report reams y Total Phase			
Client Name:	Chevron Appala	achia, LLC			Job: 1,191, Blowdown	143 bbls/yr PW Proc	duction
Location: Flowsheet:	Berger Wellpad Flowsheet1						
	Tiowoncott						
			Sample Sep	Sample Sep	Stable Oil	Water	1
			Gas	Liquid			
Molar Flow			lbmol/h	lbmol/h	lbmol/h	lbmol/h	lbmol/h
2,3-Dimethylbutan	е		0.000984482 *	0.00427359 *	0.00305777	0 *	0.00306948
2-Methylpentane			0.00646946 *	0.0253977 *	0.020545	0 *	0.020586
3-Methylpentane n-Hexane			0.00365665 *	0.016595 * 0.0517592 *	0.0144024 0.0531754	0 *	0.0144737
Methylcyclopentan	0		0.000914162	0.00469166 *	0.00494485	0 *	0.0052361
Benzene	C		0.00014064 *	0.000743233 *	0.000747235	0 *	0.00119039
Cyclohexane			0.000984482 *	0.00789685 *	0.00982982	0 *	0.00997378
2-Methylhexane			0.00154704 *	0.0164789 *	0.0326747	0 *	0.0326926
3-Methylhexane			0.0014064 *	0.0177331 *	0.0359067	0 *	0.0359264
2,2,4-Trimethylpen	tane		0 *	0 *	0	0 *	0
n-Heptane			0.00351601 *	0.050865 *	0.121698	0 *	0.121753
Methylcyclohexane			0.00126576 *	0.0193473 *	0.0454052	0 *	0.0455237
Toluene			0.000281281 *	0.00369294 *	0.00968482	0 *	0.0109817
n-Octane			0.00365665 *	0.0781672 *	0.367635	0 *	0.367666
Ethylbenzene			0.00014064 *	0.00337939 *	0.0163494	0 *	0.0170029
m-Xylene			0.000421921 *	0.00324003 *	0.0182895	0 *	0.0189137
o-Xylene			0.00014064 *	0.00699104 *	0.036804	0 *	0.0383208
n-Nonane n-Decane			0.00323473 *	0.0479501 *	0.329641	0 *	0.329655
C11			0.00196896 * 0.000421921 *	0.0427243 * 0.124596 *	0.333527 0.983846	0 *	0.333529
Water			0.000421921	0.124590	0.00095509	2620.2 *	2617.15
valui			0	0	0.00033303	2020.2	2017.10
			Sample Sep	Sample Sep	Stable Oil	Water	1
Mass Fraction			Sample Sep Gas	Sample Sep Liquid %	Stable Oil	Water %	1
			Gas %	Liquid %	%	%	%
Hydrogen Sulfide			Gas % 0 *	Liquid % 0 *	<b>%</b>	%	<mark>%</mark> 0
Hydrogen Sulfide Nitrogen			Gas % 0.574027 *	Liquid % 0.00727825 *	% 0 0.000145832	% 0 * 0 *	% 0 8.88983E-06
Hydrogen Sulfide Nitrogen Carbon Dioxide			Gas % 0 *	Liquid % 0 *	<b>%</b>	%	% 0 8.88983E-06 0.000191711
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane			Gas % 0.574027 * 0.319223 * 52.2744 *	Liquid % 0.00727825 * 0.00925629 *	% 0 0.000145832 0.00096071	% 0 * 0 *	% 0 8.88983E-06 0.000191711 0.00176279
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane			Gas % 0.574027 * 0.319223 *	Liquid % * 0.00727825 * 0.00925629 * 1.06761 *	% 0.000145832 0.00096071 0.0410652	% 0 * 0 * 0 *	% 0.000191711 0.00176279 0.00170112
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane			Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 *	% 0.000145832 0.00096071 0.0410652 0.124636 0.304952 0.128272	% 0 * 0 * 0 * 0 *	% 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582
Mass Fraction Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane			Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 *	% 0.000145832 0.00096071 0.0410652 0.124636 0.304952 0.128272 0.501857	% 0 * 0 * 0 * 0 * 0 *	
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa	ne		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 *	% 0 0.000145832 0.00096071 0.0410652 0.124636 0.304952 0.128272 0.501857 0.00517363	% 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane	ne		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868	% 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane n-Pentane			Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957	% 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *	% 0.000191711 0.00176279 0.00170112 0.00274018 0.00036582 0.00373129 3.71307E-05 0.00297247 0.00577346
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane n-Pentane 2,2-Dimethylbutane			Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736	%           0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane	e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 * 0 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037	%           0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane	e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.000635887 * 0.027347 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 * 0 * 0.392349 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535	%           0 *	% 8.88983E-06 0.000191711 0.00176279 0.00176129 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane n-Pentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2.3-Dimethylbutane	e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.0327083 * 0.060227 * 1.05648 * 0.0195336 * 0.00635887 * 0.027347 * 0.179709 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 * 0 * 0.392349 * 2.33171 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141	%           0 *	% 8.88983E-06 0.000191711 0.00176279 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.000577346 0.000186961 1.6261E-05 0.000557042 0.0037359
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylbutane Cyclopentane 2,3-Dimethylbutane 2.3-Dimethylbutane 3-Methylpentane	e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.0327083 * 0.0660227 * 1.05648 * 0.0195336 * 0.00635887 * 0.0027347 * 0.179709 * 0.101575 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937	%         0       *	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.000557042 0.00057042
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Isopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2,3-Dimethylbutane 2.3-Dimethylbutane 3-Methylpentane n-Hexane	e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.00635887 * 0.0027347 * 0.179709 * 0.101575 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 0.0598061 * 0.0598061 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937           1.36954	%           0 *	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.000557042 0.000557042 0.00262665 0.00966116
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropa Sopentane 2,2-Dimethylpropa Cyclopentane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane m-Hexane	e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 0.0327083 * 0.0327083 * 0.0327083 * 0.0195336 * 0.0195336 * 0.0027347 * 0.0179709 * 0.101575 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 6.99375 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937	%         0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.002577346 0.000186961 1.6261E-05 0.000557042 0.0037359 0.00262665 0.00966116 0.000887083
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane n-Butane 2,2-Dimethylpropa sopentane 2,2-Dimethylputane Cyclopentane 2,3-Dimethylbutane 3-Methylpentane n-Hexane Methylcyclopentan Benzene	e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.0027347 * 0.179709 * 0.101575 * 0.253936 * 0.0228919 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 0.0598061 * 0.0598061 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0220037           0.0787535           0.529141           0.370937           1.36954           0.124377	%         0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00297247 0.000186961 1.6261E-05 0.000557042 0.000557042 0.000557042 0.000557043 0.00262665 0.00966116 0.000887083 0.000195815
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane n-Butane 2,2-Dimethylpropa sopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane n-Hexane Methylcyclopentan Benzene Cyclohexane	e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.027347 * 0.101575 * 0.253936 * 0.0228919 * 0.00354116 * 0.0267073 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852	%         0 *	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.0037359 0.00262665 0.00966116 0.000887083 0.000195815 0.000176768
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane n-Butane 2,2-Dimethylpropa sopentane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane n-Hexane Methylpclopentan Benzene Cyclohexane 2-Methylhexane	e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.027347 * 0.179709 * 0.101575 * 0.253936 * 0.0228919 * 0.00354116 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 4.3355 * 0.152462 * 0 * 0.392349 * 2.33171 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247	%         0          0          0          0            0 <td>% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.00076557042 0.000557042 0.000557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.000557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.0007557042 0.0005</td>	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.00076557042 0.000557042 0.000557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.000557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.00076557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.00077559 0.000557042 0.000557042 0.0007557042 0.0005
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Sopentane 2,2-Dimethylpropal 2,3-Dimethylputane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane Benzene Cyclohexane 2,2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpen	e e e		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.00635887 * 0.00635887 * 0.00635887 * 0.0179709 * 0.101575 * 0.253936 * 0.0228919 * 0.0028919 * 0.00254116 * 0.0267073 * 0.0499686 * 0.0499686 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 4.3355 * 0.152462 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0	%         0          0          0          0 <tbr></tbr> <tbr></tbr>	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000176768 0.000687083 0.000176768 0.00689867 0.00758104 0.00758104 0.00758104
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane h-Butane 2,2-Dimethylpropal sopentane 2,2-Dimethylpropal sopentane 2,2-Dimethylpropal 2,2-Dimethylpropal 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2-Methylhexane 3-Methylhexane 2-Methylhexane	e e tane		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 0.0327083 * 0.0648 * 0.0195336 * 0.00635887 * 0.00635887 * 0.00635887 * 0.027347 * 0.101575 * 0.0239366 * 0.028919 * 0.0499686 * 0.0499686 * 0.0499686 * 0.045426 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.152462 * 0.152462 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 * 0 * 0 * 0 * 0.708033 * 0.7080355 * 0.7080355 * 0.7080355 * 0.7080355 * 0.7080355 * 0.7080355 * 0.7080355 * 0.7080355 * 0.708055 * 0.7080555 * 0.7085555 * 0.70855555555555555555555555555555555555	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454	%         0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.0005570
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylputane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane Methylcyclopentan Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpen n-Heptane	e e tane		Gas           %           0.574027 *           0.319223 *           52.2744 *           23.8799 *           13.4816 *           1.81284 *           4.40562 *           0.0327083 *           0.860227 *           1.05648 *           0.0195336 *           0.00635887 *           0.027347 *           0.101575 *           0.253936 *           0.0228919 *           0.00354116 *           0.0267073 *           0.0499686 *           0.045426 *           0.113565 *           0.0400609 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.152462 * 0.152462 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0 * 0.708033 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241	%         0	% 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.0005570
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane n-Pentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane m-Hexane Methylcyclopentan Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylpentane Methylcyclohexane 10-Heptane	e e tane		Gas %           0.574027 *           0.319223 *           52.2744 *           23.8799 *           13.4816 *           1.81284 *           4.40562 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0327083 *           0.0195336 *           0.00635887 *           0.027347 *           0.101575 *           0.223936 *           0.0228919 *           0.00354116 *           0.0267073 *           0.0499686 *           0.0499686 *           0.113565 *           0.0400609 *           0.0400609 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 0.392349 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 * 0 * 0 * 0 * 0.058065 * 0.0618499 * 0.708033 * 0.708033 * 0.75914 * 1.89303 * 0 * 0 * 0.20238 * 0.362501 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695	%         0          0          0          0 </td <td>% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.00257042 0.0037359 0.00262665 0.00966116 0.000887083 0.00176768 0.00176768 0.00689867 0.00758104 0.00256919 0.00256919 0.00213083</td>	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.00257042 0.0037359 0.00262665 0.00966116 0.000887083 0.00176768 0.00176768 0.00689867 0.00758104 0.00256919 0.00256919 0.00213083
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane -Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane Methylcyclopentan Benzene Cyclohexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2-Methylhexane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane Toluene	e e tane		Gas %           0.574027           0.319223           52.2744           23.8799           13.4816           1.34816           1.81284           4.40562           0.0327083           0.360227           1.05648           0.0195336           0.00635887           0.027347           0.101575           0.253936           0.0228919           0.00354116           0.0499686           0.0499686           0.113565           0.0400609           0.134641	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.152462 * 0.420655 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 * 0 * 0.32239 * 0.0512453 * 0 * 0 * 0 * 0 * 0.051253 * 0 * 0 * 0 * 0 * 0 * 0.051253 * 0 * 0 * 0 * 0 * 0 * 0 * 0.051253 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695           12.5509	%         0          0          0 <tr< td=""><td>% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00257042 0.000557042 0.000557042 0.000557042 0.00262665 0.000689867 0.000758104 0.00256919 0.00256919 0.00213083 0.0884438</td></tr<>	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00257042 0.000557042 0.000557042 0.000557042 0.00262665 0.000689867 0.000758104 0.00256919 0.00256919 0.00213083 0.0884438
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane Methylcyclopentan Benzene Cyclohexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene	e e tane		Gas %           0.574027           0.319223           52.2744           23.8799           13.4816           13.4816           1.81284           4.40562           0.0327083           0.360227           1.05648           0.0195336           0.00635887           0.027347           0.101575           0.253936           0.0228919           0.00354116           0.0499686           0.0499686           0.0113565           0.0400609           0.134641           0.00481293	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 0.152462 * 0.152462 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0 * 0.362501 * 0.362501 * 9.51253 * 0.382222 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695           12.5509           0.51876	%         0          0          0 <tr< td=""><td>% 8.88983E-06 0.000191711 0.00176279 0.00176279 0.00176279 0.00274018 0.000936582 0.00274018 0.000936582 0.002747 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00257042 0.000557042 0.000966116 0.000887083 0.000195815 0.00176768 0.000889867 0.000758104 0.00256919 0.00256919 0.00213083 0.00884438 0.0038014</td></tr<>	% 8.88983E-06 0.000191711 0.00176279 0.00176279 0.00176279 0.00274018 0.000936582 0.00274018 0.000936582 0.002747 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00297247 0.00257042 0.000557042 0.000966116 0.000887083 0.000195815 0.00176768 0.000889867 0.000758104 0.00256919 0.00256919 0.00213083 0.00884438 0.0038014
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane -Butane 2,2-Dimethylpropal sopentane 2,2-Dimethylpropal sopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane 3-Methylpentane 2-Methylpentane 2-Methylhexane 2-Methylhexane 2-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylhexane 3-Methylpentane Methylcyclohexane Toluene n-Cotane Ethylbenzene m-Xylene	e e tane		Gas % 0.574027 * 0.319223 * 52.2744 * 23.8799 * 13.4816 * 1.81284 * 4.40562 * 0.0327083 * 0.860227 * 1.05648 * 0.0195336 * 0.00635887 * 0.027347 * 0.027347 * 0.101575 * 0.023936 * 0.0228919 * 0.00354116 * 0.0267073 * 0.0499686 * 0.0499686 * 0.0499686 * 0.045426 * 0.049686 * 0.0435409 * 0.0134641 * 0.00481293 *	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 0.392349 * 0.392349 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 1.75914 * 1.89303 * 0.362501 * 0.362501 * 0.362501 * 0.382222 * 0.366461 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695           12.5509           0.51876           0.580317	%         0      0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00277346 0.000186961 1.6261E-05 0.000557042 0.000195815 0.00075814 0.00075814 0.00075814 0.000256915 0.000213083 0.00213083 0.0038014 0.00042286
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane 2-Methylpentane 3-Methylpentane 2-Methylpentane 2-Methylhexane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene	e e tane		Gas           %           0.574027           0.319223           52.2744           23.8799           13.4816           1.81284           4.40562           0.0327083           0.860227           1.05648           0.0195336           0.00635887           0.027347           0.0195336           0.027347           0.101575           0.253936           0.0228919           0.00354116           0.0228919           0.0499686           0.0499686           0.0445426           0.0435426           0.0436427           0.134641           0.00481293	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 4.3355 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0.362501 * 9.51253 * 0.382222 * 0.362601 * 0.362601 * 0.362501 * 0.382222 * 0.3626461 * 0.790714 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695           12.5509           0.51876           0.580317           1.16777	%         0      0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00277346 0.000577346 0.000186961 1.6261E-05 0.000557042 0.00055704 0
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane sobutane n-Butane 2,2-Dimethylpropal sopentane 2,2-Dimethylpropal sopentane 2,2-Dimethylputane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane 3-Methylpentane 2-Methylpentane 2-Methylpentane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene o-Xylene n-Nonane	e e e tane		Gas           %           0.574027           0.319223           52.2744           23.8799           13.4816           1.81284           4.40562           0.0327083           0.0327083           0.0327083           0.0327083           0.0327083           0.0327083           0.00635887           0.00635887           0.0027347           0.101575           0.253936           0.0023919           0.00354116           0.0228919           0.0028919           0.00499686           0.0499686           0.0499686           0.0445426           0.045426           0.045426           0.043641           0.0436423           0.0144388           0.00481293           0.0144388           0.00481293	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 4.3355 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0.362501 * 9.51253 * 0.362501 * 0.382222 * 0.366461 * 0.790714 * 6.55181 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.26695           12.5509           0.51876           0.580317           1.16777           12.6357	%         0      0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000186961 1.6261E-05 0.000557042 0.000557042 0.000557042 0.000557042 0.000557042 0.000850783 0.00262665 0.00966116 0.000887083 0.00266919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00256919 0.00041297 0.00256919 0.00256956 0.00256956 0.00256956 0.00256956 0.00256956 0.00256956 0.00256956 0.00256956 0.00256956 0.0
Hydrogen Sulfide Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane n-Butane 2,2-Dimethylpropal Isopentane 2,2-Dimethylpropal Isopentane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,2-Dimethylbutane 2,3-Dimethylbutane 2,3-Dimethylbutane 3-Methylpentane 3-Methylpentane 2-Methylpentane 3-Methylpentane 2-Methylpentane 2-Methylhexane 2,2,4-Trimethylpen n-Heptane Methylcyclohexane Toluene n-Octane Ethylbenzene m-Xylene	e e e tane		Gas           %           0.574027           0.319223           52.2744           23.8799           13.4816           1.81284           4.40562           0.0327083           0.860227           1.05648           0.0195336           0.00635887           0.027347           0.0195336           0.027347           0.101575           0.253936           0.0228919           0.00354116           0.0228919           0.0499686           0.0499686           0.0445426           0.0435426           0.0436427           0.134641           0.00481293	Liquid % 0.00727825 * 0.00925629 * 1.06761 * 3.26779 * 6.90398 * 2.35071 * 8.36519 * 0.0598061 * 4.3355 * 0.0598061 * 4.3355 * 0.152462 * 0 * 0.392349 * 2.33171 * 1.52355 * 4.7519 * 0.420655 * 0.420655 * 0.0618499 * 0.708033 * 1.75914 * 1.89303 * 0.362501 * 9.51253 * 0.382222 * 0.362601 * 0.362601 * 0.362501 * 0.382222 * 0.3626461 * 0.790714 *	%           0           0.000145832           0.00096071           0.0410652           0.124636           0.304952           0.128272           0.501857           0.00517363           0.415868           0.810957           0.0264736           0.00220037           0.0787535           0.529141           0.370937           1.36954           0.124377           0.0174444           0.247247           0.97852           1.07531           0           3.64454           1.33241           0.266695           12.5509           0.51876           0.580317           1.16777	%         0      0	% 8.88983E-06 0.000191711 0.00176279 0.00170112 0.00274018 0.000936582 0.00373129 3.71307E-05 0.00297247 0.00577346 0.000176768 0.000687083 0.000176768 0.00018815 0.00176768 0.000758104 0.00758104 0.00758104 0.00256919 0.00941297

			All St	reams Report reams y Total Phase				
Client Name:	Chevron Appala	Chevron Appalachia, LLC Job: 1,191,143 bbls/yr PW Production Blowdown						
Location:	Berger Wellpad							
Flowsheet:	Flowsheet1							
			Sample Sep	Sample Sep	Stable Oil	Water	1	
			Gas	Liquid	••••••		-	
Mass Flow			lb/h	lb/h	lb/h	lb/h	lb/h	
Hydrogen Sulfide			0 *	0 *	0	0 *	0	
Nitrogen			1.7808 *	0.00683172 *	0.000487945	0 *	0.00422137	
Carbon Dioxide			0.990322 *	0.00868841 *	0.00321447	0 *	0.0910349	
Methane			162.17 *	1.00212 *	0.137401	0 *	0.837066	
Ethane			74.0822 *	3.06731 *	0.417023	0 *	0.807782	
Propane			41.8237 *	6.48041 *	1.02035	0 *	1.30118	
Isobutane			5.62394 *	2.20649 *	0.42919	0 *	0.44474	
n-Butane			13.6675 *	7.85197 *	1.67918	0 *	1.77182	
2,2-Dimethylpropa	ane		0.10147 *	0.056137 *	0.0173106	0 *	0.0176317	
Isopentane			2.66867 *	4.06951 *	1.39147	0 *	1.41149	
n-Pentane			3.27749 *	6.56467 *	2.71341	0 *	2.74155	
2,2-Dimethylbutar	ne		0.0605987 *	0.143108 *	0.0885788	0 *	0.088779	
Cyclopentane			0.019727 *	0 *	0.0073623	0 *	0.00772162	
2,3-Dimethylbutar	ne		0.0848381 *	0.368278 *	0.263504	0 *	0.264514	
2-Methylpentane			0.557508 *	2.18865 *	1.77047	0 *	1.77401	
3-Methylpentane			0.315113 *	1.43008 *	1.24113	0 *	1.24727	
n-Hexane			0.787783 *	4.46037 *	4.58241	0 *	4.58764	
Methylcyclopenta	ne		0.0710173 *	0.394848 *	0.416156	0 *	0.421235	
Benzene			0.0109857 *	0.0580553 *	0.0583679	0 *	0.0929836	
Cyclohexane			0.0828535 *	0.664595 *	0.827273	0 *	0.839388	
2-Methylhexane			0.155017 *	1.65121 *	3.27407	0 *	3.27586	
3-Methylhexane	ntono		0.140924 *	1.77689 * 0 *	<u>3.59793</u> 0	0 *	<u>3.59989</u> 0	
2,2,4-Trimethylper n-Heptane	Intalle		0.352311 *	5.09677 *	12.1944	0 *	12.1999	
Methylcyclohexan			0.12428 *	1.89963 *	4.45816	0 *	4.46979	
Toluene			0.0259168 *	0.340262 *	0.892344	0 *	1.01183	
n-Octane			0.417694 *	8.92893 *	41.9944	0 *	41.9979	
Ethylbenzene			0.0149311 *	0.358773 *	1.73574	0 *	1.80511	
m-Xylene			0.0447932 *	0.343978 *	1.9417	0 *	2.00797	
o-Xylene			0.0149311 *	0.742203 *	3.90729	0 *	4.06832	
n-Nonane			0.41487 *	6.14985 *	42.2781	0 *	42.2799	
n-Decane			0.280148 *	6.07888 *	47.4547	0 *	47.4551	
C11			0.0659497 *	19.4754 *	153.783	0 *	153.784	
Water			0 *	0 *	0.0172062	47203.6 *	47148.7	
				I				
			Stream I	Properties				
Property		Units	Sample Sep Gas	Sample Sep Liquid	Stable Oil	Water	1	
Temperature		°F	49 *	49 *	70	135 *	70	
Pressure		psia	197.696 *	197.696 *	14.6959	3914.7 *	14.6959	
				· · · · •				

Temperature	-F	49	49	70	135	70
Pressure	psia	197.696 *	197.696 *	14.6959	3914.7 *	14.6959
Mole Fraction Vapor	%	99.7899	0	0	0	0
Mole Fraction Light Liquid	%	0.210132	100	100	100	0.0984549
Mole Fraction Heavy Liquid	%	0	0	0	0	99.9015
Molecular Weight	lb/lbmol	22.0583	80.8281	129.721	18.0153	18.1256
Mass Density	lb/ft^3	0.856758	41.7837	45.3669	61.677	62.1112
Molar Flow	lbmol/h	14.064	1.16129	2.57932	2620.2	2619.8
Mass Flow	lb/h	310.228	93.8649	334.594	47203.6	47485.4
Vapor Volumetric Flow	ft^3/h	362.096	2.24645	7.37528	765.336	764.523
Liquid Volumetric Flow	gpm	45.1444	0.280077	0.919516	95.4185	95.3171
Std Vapor Volumetric Flow	MMSCFD	0.12809 *	0.0105766	0.0234915	23.8638	23.8602
Std Liquid Volumetric Flow	sgpm	1.7661	0.291667 *	0.919086	94.3635 *	95.1827
Compressibility		0.932418	0.0700573	0.00739266	0.179174	0.000754484
Specific Gravity			0.669943	0.727395	0.988905	0.995866
API Gravity			81.6351	61.8583	9.54602	10.3829
Enthalpy	Btu/h	-493860	-93811.7	-300158	-3.18815E+08	-3.22257E+08
Mass Enthalpy	Btu/lb	-1591.92	-999.433	-897.082	-6754.04	-6786.43
Mass Cp	Btu/(lb*°F)	0.490708	0.503909	0.489643	0.974348	0.979672

			All St	reams Report reams by Total Phase			
Client Name:	Chevron Appal	achia, LLC	ia, LLC Job: 1,191,143 bbls/yr PW Produc Blowdown				
Location:	Berger Wellpac	b					
Flowsheet:	Flowsheet1						
			Stream	Properties			
Property		Units	Sample Sep Gas	Sample Sep Liquid	Stable Oil	Water	1
Ideal Gas CpCv F	Ratio		1.24402	1.06997	1.04155	1.32279	1.32366
Dynamic Viscosit	/	cP		0.330885	0.752209	0.521301	0.9933
Kinematic Viscosity cSt				0.494367	1.03509	0.527648	0.998462
Thermal Conductivity Btu/(h*ft*°F)			0.0697798	0.0755051	0.372658	0.344431	
Surface Tension Ibf/ft		lbf/ft		0.00118245 ?	0.00153683 ?	0.00455539	0.00500871 ?
	Net Ideal Gas Heating Value Btu/ft^3		1201.01	4125.45	6548.06	0	6.48795
Net Ideal Gas He		Btu/lb	20588.6	19198.4	18990.2	-1059.76	-917.58
Net Ideal Gas He	g Value	Btu/lb Btu/ft^3	20588.6 1322.14	19198.4 4454.37	18990.2 7049.64	<u>-1059.76</u> 50.31	-917.58 57.2445

Remarks

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		All St Tabulated b	reams Report reams y Total Phase		
Client Name:	Chevron Appala	chia, LLC		Job: 1,191, Blowdown	143 bbls/yr PW Production
Location:	Berger Wellpad				
Flowsheet:	Flowsheet1				
		Conn	ections		
		2	6		
From Block		MIX-100	VSSL-102		
To Block		VSSL-101			
		01			
			omposition		· · · · · · · · · · · · · · · · · · ·
Mole Fraction		2 %	6 %		
Hydrogen Sulfide		0	/8		
Nitrogen		0.0187214	0.419126		
Carbon Dioxide		0.00665964	0.149093		
Methane		2.98402	66.805		
Ethane		0.752733	16.8518		
Propane		0.321378	7.19486		
Isobutane		0.0395249	0.884865		
n-Butane 2,2-Dimethylpropa	no	0.108622	2.43177 0.0143476		
Isopentane		0.000640878	0.613405		
n-Pentane		0.0400211	0.895973		
2,2-Dimethylbutan	е	0.000693505	0.0155259		
Cyclopentane		8.25215E-05	0.00184745		
2,3-Dimethylbutan	е	0.0015426	0.034535		
2-Methylpentane		0.0093491	0.209303		
3-Methylpentane n-Hexane		0.00594138	0.133013		
Methylcyclopentan	٩	0.0178669 0.00162399	0.399997 0.0363572		
Benzene	C	0.000259309	0.00580528		
Cyclohexane		0.00260559	0.0583326		
2-Methylhexane		0.0052884	0.118394		
3-Methylhexane		0.0056151	0.125708		
2,2,4-Trimethylpen	tane	0	0		
n-Heptane		0.0159542	0.357175		
Methylcyclohexane Toluene	;	0.00604741	0.135387 0.0261027		
n-Octane		0.0240053	0.53742		
Ethylbenzene		0.0010327	0.0231196		
m-Xylene		0.00107434	0.0240517		
o-Xylene		0.00209227	0.0468409		
n-Nonane		0.0150165	0.336182		
n-Decane C11		0.013112	0.293546		
Water		0.0366775 95.5332	0.821119		
		00.002	V		
		2	6		
Molar Flow		lbmol/h	lbmol/h		
Hydrogen Sulfide		0	0		
Nitrogen		0.513474	0.0638133		
Carbon Dioxide		0.182655	0.0226999		
Methane		81.8431	10.1713		
Ethane Propane		20.6453 8.81447	2.56575 1.09544		
Isobutane		1.08405	0.134724		
n-Butane		2.97918	0.370245		
2,2-Dimethylpropa	ne	0.0175774	0.00218448		
Isopentane		0.751485	0.0933928		
n-Pentane		1.09766	0.136415		
2,2-Dimethylbutan	e	0.0190208	0.00236386		
Cyclopentane	•	0.00226332	0.000281281		
2,3-Dimethylbutane	e	0.0423091 0.256419	0.00525807 0.0318671		
3-Methylpentane		0.236419	0.0202517		
* User Specified Values			3.2.12198.0		Licensed to The ERM Group, Inc. and Affiliates

? Extrapolated or Approximate Values

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Chart Name:         Charton Appaiachia, LLC         Bit 1,131 30 Bidsyr PW Production Biovdown           Location:         Berger Wellpad				All St	eams Report reams y Total Phase				
Flowsheet         Powsheet         2         6         6           Molar Flow         2         6         1         1         1           Molar Flow         0.49503         0.0696008         1         1           Methylociopentane         0.04711209         0.00983873         1         1           Methylociopentane         0.04711209         0.00983873         1         1           Methylociopentane         0.154006         0.0191395         1         1           JAdethylociopentane         0.154006         0.0191395         1         1           JAdethylocione         0.154006         0.00937422         1         1           Methylociohexane         0.154306         0.0037422         1         1           Ocioare         0.0352036         0.00371183         1         1           Tolucne         0.0352036         0.00371184         1         1           Noropent         0.0352036         0.0021184         1         1           Noropent         0.025208         0.0440933         1         1           Nase Fraction         7         6         %         1         1           Mass Fraction         2.2052			ichia, LLC						
Molar Flow         2         6           Interview         0.44039         0.0069008           Methyloppentine         0.0445514         0.0055355         0           Decreme         0.00711209         0.0088073         0           Decreme         0.014504         0.0088073         0           Decreme         0.014504         0.0180139         0           Ambridhessine         0.154006         0.0191395         0           2.2.4-Timethylpentane         0.155863         0.0200131         0           Pholycolchoxane         0.155863         0.0200131         0           Toluaria         0.055785         0.053858         0         0           ProJorane         0.055858         0.0097182         0         0           InCorane         0.055858         0.0097189         0         0           InCorane         0.045785         0.0077189         0         0           InCorane         0.045785         0.0077189         0         0           In-Decare         0.355624         0.0448933         0         0           C11         1.00569         0.42228         0         0           Water         220.2 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>									
Molar Flow         Ibmo/h         Ibmo/h         Ibmo/h         Ibmo/h           ArHavane         0.4045414         0.0055355	riowsneet. riowsnee	eli							
n+Hoxane         0.440039         0.00009           MethyloxiDpentane         0.04414         0.005355           Benzene         0.00711209         0.00083973           Cyclohesane         0.0741458         0.0088133           2.Methylbexane         0.145046         0.019355           2.A.Methylbexane         0.145046         0.019355           2.2.4.Timethylpantane         0.0263132         1           Totume         0.018583         0.0228132         1           Totume         0.018583         0.0228132         1           Totume         0.0283239         0.00352003         1           m-Nylene         0.0283239         0.0013168         1           n-Nocane         0.41595         0.0013184         1           n-Decane         0.339624         0.0446933         1           Vater         26.02         0         1         1           Water         26.02         0         1         1           Mutare         0.0284283         0.244283         1         1           Cil         1         0.05582         0.24428         1         1           Galan         0.025458         0.24428         1				2		· · ·			
Methylopolapentane         0.0446414         0.0053355         Image: constraint of the system of the syst							· · · · ·		
Benzémé         0.007/1209         0.000883873           2-Mettylhexane         0.0774680         0.00883873           2-Mettylhexane         0.145046         0.0180259           3-Mettylhexane         0.145046         0.019365           2.2.4-Timethylpontane         0         0          Heptane         0.1777         0.05481           Mettyloycohesane         0.038373         0.0208131           Tolune         0.0383203         0.0352003           -Polybionzene         0.0283239         0.00352003           -Nonane         0.0473758         0.00713168           -Nonane         0.415989         0.00173168           -Nonane         0.41599         0.00173168           -Nonane         0.41599         0.00173168           -Nonane         0.41593         0.0418933           C11         1.05596         0.122018           Water         220.2         0           Mass Fraction         %         %           Hydrogen         0.0224508         0.44238           Carbon Dixolde         0.01532         0.247223           Muthane         1.02478         1.33778           -Bane         1.70346         1.86748 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Cyclohexane         0.0714836         0.0088133         Image: Constraint of the constra									
2:Metryhexane         0.145046         0.0180259           2.2.4-Timmetryhpentane         0         0           n-Heptane         0.053431         1           Metryhycstohexane         0.155863         0.020131         1           Toluene         0.058396         0.02037422         1           n-Octare         0.058396         0.03037422         1           n-Octare         0.058396         0.03037423         1           n-Vistene         0.0234639         0.03032033         1           n-Vistene         0.0234639         0.03036155         1         1           n-Nonane         0.041859         0.0171368         1         1           n-Nonane         0.0125018         1         1         1         1           Water         202.0         0         1									
2,2,4-Timethylpentane         0         0         0           Methylcyclohexane         0.155863         0.0205131         0.0205131           Methylcyclohexane         0.058398         0.0918239         0.03087422           n-Octane         0.058398         0.0918239         0.03081039           n-Cotane         0.0294659         0.0036195         0.0204659           o-Xylene         0.0294659         0.0036195         0.0036195           n-Nonane         0.411859         0.01713168         0.01713168           n-Nonane         0.336624         0.0466933         0.0125018           Watar         2020         0         0         0           Watar         2020         0         0         0.024723           Gathon Doxide         0.015932         0.424723         0         0           Methane         2.12927         0         0         0.024739         0           Sociation Doxide         0.0215932         0.424739         0         0         0           Nitrogen         0.0221348         0.52237         0         0         0         0           Sociation Doxide         0.0251348         0.0390027         0         0         0	2-Methylhexane								
n-Heptane 0.437577 0.054381				0.154006	0.0191395				
Methylcyclohexane         0.168863         0.00039742         Image: Constraint of the second secon				-	-				
Toluéné         0.0319786         0.0037422         Image: Construction of the constrese of the construction of the construction of the									
n-Octane 0.058336 0.0618239 0.0618239 0.073168 0.073048 0.073054 0.008418 0.008418 0.008418 0.008418 0.008418 0.008418 0.008418 0.008418 0.008418 0.008418 0.0084818 0.0084818 0.0084818 0.0084818 0.00848 0.0084818 0.0084818 0.00848 0.0084818 0									
Ethylbenzene         0.0283230         0.0336905           m-Xylene         0.0294659         0.00366195           n-Nonane         0.0411859         0.0511849           n-Decane         0.336624         0.04646933           C11         1.00566         0.125018           Water         2620.2         0           Mass Fraction         %         %           Hydrogen Suffide         0         0           Outside         0.0285088         0.44238           Carton Dioxide         0.0285088         0.44238           Ethane         1.2037         1.9292           Propane         0.176378         1.9377           Babutane         0.124878         1.93778           -2.2-Dimethylpropane         0.03261463         0.32837           2.2-Dimethylpropane         0.03264686         0.036027           2.2-Dimethylpropane         0.03264686         0.036027           2.2-Dimethylpropane         0.03264686         0.0364163           Cyclopentane         0.0326468         0.036027           2.2-Dimethylpropane         0.03264686         0.0564163           Cyclopentane         0.0326468         0.036627           2.2-Dimethylprotane									
m-Xylene         0.0294659         0.0036195         Image: constraint of the second									
or.Xylene         0.067385         0.00713168           n-Nonane         0.0411859         0.0511849           n-Decane         0.356624         0.0446933           Water         2620.2         0           Water         2620.2         0           Mass Fraction         2         6           Hydrogen Sulfide         0         0           Nitrogen         0.0285088         0.44238           Carbon Dixide         0.015932         0.247223           Methane         2.60224         40.3798           Ethane         1.23037         19.092           Propane         0.770346         11.9537           Isobutane         0.124878         1.93778           n-Plutane         0.00251349         0.0390027           Isopentane         0.107459         1.86748           p-Pentane         0.107459         1.86748           Cyclopentane         0.00024868         0.0504168           Cyclopentane         0.00024868         0.0504188           Cyclopentane         0.0027832         0.41879           J-Hexane         0.00304603         0.004818           Cyclopentane         0.00024868         0.051408					0.00366195				
n-Decane         0.356624         0.0446933           Water         2600.2         0           Water         2620.2         0           Mass Fraction         2         6           Mydrogen Sulfide         0         0           Nitrogen         0.0285088         0.44238           Carbon Dioxide         0.015932         0.247223           Methane         2.60224         40.3798           Ethane         1.23037         19.092           Propane         0.770346         11.9537           Isobutane         0.124878         1.93778           P-Butane         0.343188         5.32537           2-Dimethylpropane         0.00251349         0.039007           Isopentane         0.17459         1.66748           PrPentane         0.175932         2.2           2-Dimethylptopane         0.00024688         0.000418           2.3-Dimethylbutane         0.00724868         0.0341818           2.3-Dimethylbutane         0.00724868         0.017489           2.4Methylpertane         0.027833         0.679668           Yeldepertane         0.0074863         0.15266           Benzene         0.0011055         0.17128 </td <td>o-Xylene</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	o-Xylene								
C11         1.00566         0.125018           Water         2620.2         0           Mass Fraction         %         %           Hydrogen Sullide         0         0         0           Nitrogen         0.028508         0.44238         0.028708           Carbon Dioxide         0.015932         0.247223         0.028708           Methane         2.6022         40.3798         0.028708           Ethane         1.23037         19.092         0.0277346           Propane         0.770346         1.9537         0.027734           Isobutane         0.343188         5.32537         0.0217           Isoperatine         0.10251349         0.0330027         0.025148         0.0330027           Isoperatine         0.00254868         0.0504108         0.02212         0.017459           Q:cloperatine         0.00314603         0.004818         0.022132         0.021232           2.3-Dimethyloptane         0.0027822         0.112132         0.043785         0.0334663         0.012784           Q:cloperatine         0.0072822         0.112132         0.021233         0.12375           Methylperitane         0.028055         0.148969         0.0212784         0									
Water         2620.2         0           Mass Fraction         2         6           Mass Fraction         %         %           Hydrogen Sulfide         0         0         0           Nitrogen         0.0285088         0.44238         0           Carbon Dioxide         0.015932         0.247233         0           Methane         2.60224         40.3798         0           Ethane         1.2307         19.092         0           Propane         0.779346         11.9537         0           Isobutane         0.343188         5.32537         0           Isobutane         0.00251349         0.0390027         0           Isopentane         0.107459         1.66748         0           Q.2-Dimethylptopane         0.0022488         0.050408         0           Cyclopentane         0.00324868         0.5054188         0         0           2.3-Dimethylptonae         0.0324868         0.5054188         0         0           Cyclopentane         0.0324868         0.570548         0         0           Cyclopentane         0.0324868         0.5705         0           Methylpcolopentane         0.03026865 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Aass Fraction         2         6           Mass Fraction         0         0         0           Nitrogen         0.0285088         0.44238         0           Carbon Dioxide         0.015932         0.247223         0           Methane         2.60224         40.3788         0           Ethane         1.23037         19.092         0           Propane         0.770346         11.9537         0           Isobutane         0.124878         1.93778         0           n-Butane         0.343188         5.32537         0           2.2-Dimethylpropane         0.00251349         0.0390027         0           Isopertane         0.107459         1.66748         0           -Pentane         0.107459         1.66748         0           -Pentane         0.000314603         0.004818         2.2-Dimethylbutane         0.000324688         0.0504108           Cyclopertane         0.00027822         0.112132         2.4Methylpentane         0.027832         0.431879           -Hexane         0.027832         0.431879         0         0         0           -Hexane         0.0305849         0.415266         0         0									
Mass Fraction         %         %            Hydrogen Sulfide         0         0         0           Nitrogen         0.0285088         0.44238         0.42723           Carbon Dioxide         0.015932         0.247223         0.42723           Behnane         1.23037         19.092         0.016932           Propane         0.770346         11.9537         0.0211478           Isobutane         0.124878         1.93778         0.021149           0.2011448         5.32537         0.021149         0.0300027           Isobutane         0.00211349         0.0300027         0.020140           Symethylpopane         0.00324868         0.0504108         0.0202149           Cyclopentane         0.00324868         0.0504108         0.021149           Cyclopentane         0.00324868         0.0504108         0.021149           2.3-Umethylbutane         0.00324808         0.0504108         0.021149           2.3-Umethylbutane         0.00324808         0.054108         0.021149           3-Methylpentane         0.0072622         0.111232         0.431879           n-Hexane         0.0072632         0.431879         0.02110105           Cyclohexane	Water			2020.2	0				
Mass Fraction         %         %            Hydrogen Sulfide         0         0         0           Nitrogen         0.0285088         0.44238         0.42723           Carbon Dioxide         0.015932         0.247223         0.42723           Behnane         1.23037         19.092         0.016932           Propane         0.770346         11.9537         0.0211478           Isobutane         0.124878         1.93778         0.021149           0.2011448         5.32537         0.021149         0.0300027           Isobutane         0.00211349         0.0300027         0.020140           Symethylpopane         0.00324868         0.0504108         0.0202149           Cyclopentane         0.00324868         0.0504108         0.021149           Cyclopentane         0.00324868         0.0504108         0.021149           2.3-Umethylbutane         0.00324808         0.0504108         0.021149           2.3-Umethylbutane         0.00324808         0.054108         0.021149           3-Methylpentane         0.0072622         0.111232         0.431879           n-Hexane         0.0072632         0.431879         0.02110105           Cyclohexane				2	6				
Hydrogen Sulfide         0         0         0           Nitrogen         0.0285088         0.44238	Mass Fraction								
Nitrogen         0.0285088         0.44238           Carbon Dioxide         0.015932         0.247223           Methane         2.60224         40.3798           Ethane         1.23037         19.092           Propane         0.770346         11.9537           Isobutane         0.124878         1.93778          Butane         0.343188         5.32537           2.2-Dimethylpropane         0.00251349         0.0390027           Isopentane         0.107459         1.66748          Pentane         0.107459         1.66748           Cyclopentane         0.00324868         0.0504108           2.2-Dimethylbutane         0.00374553         0.679586           Cyclopentane         0.0072522         0.112132           2.3-Dimethylbutane         0.0072852         0.431879          Hexane         0.00742953         0.115286           Benzene         0.00110105         0.0170854           Cyclopentane         0.0028055         0.448989           2.4-Trimethylpentane         0.028055         0.448984           S-Methylhexane         0.028055         0.448948           2.4-Trimethylpentane         0.00280375         0.990173           <									
Methane         2.60224         40.3798            Ethane         1.23037         19.092         P           Propane         0.770346         11.9537            Isobutane         0.124878         1.93778             n-Butane         0.33188         5.32537              2.2-Dimethylpropane         0.00251349         0.0390027              Isopertane         0.107459         1.66748               n-Pentane         0.00324868         0.0504108 <t< td=""><td>Nitrogen</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Nitrogen								
Ethane         1.23037         19.092         Image: State									
Propane         0.770346         11.9377         Image: Constraint of the system of the syst									
Isobutane         0.124878         1.93778         Image: Signal									
n-Butane         0.343188         5.2537         Image: Subscript of the su									
2.2-Dimethylpropane         0.00251349         0.0390027         Image: Constraint of the system of the sy									
Isopentane         0.107459         1.66748         Image: Second Secon									
2.2-Dimethylbutane         0.00324868         0.0504108            Cyclopentane         0.000314603         0.0048818             2.3-Dimethylbutane         0.00722622         0.112132             2-Methylpentane         0.0437953         0.679586              3-Methylpentane         0.027832         0.431879              n-Hexane         0.0836966         1.29875              Methylcyclopentane         0.00110105         0.0170854              Cyclohexane         0.0119202         0.184969               2.4-Artimethylnexane         0.0328549         0.474597	Isopentane			0.107459					
Cyclopentane         0.000314603         0.0048818            2,3-Dimethylbutane         0.00372622         0.112132            2-Methylpentane         0.0437953         0.679586             3-Methylpentane         0.027832         0.431879             n-Hexane         0.0836966         1.29875              Methylcyclopentane         0.00742953         0.115286              Benzene         0.00110105         0.0170854               Cyclohexane         0.0210105         0.4184969                 2.Methylhexane         0.028055         0.446984									
2.3-Dimethylbutane         0.00722622         0.112132         Image: style									
2-Methylpentane         0.0437953         0.679586         Image: Constraint of the system o									
3-Methylpentane         0.027832         0.431879         Image: Constraint of the system           Nethylcyclopentane         0.00336966         1.29875         Image: Constraint of the system         Image: Consystem         Image: Consystem <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
n-Hexane         0.0836966         1.29875         Image: Constraint of the system of the sy									
Methylcyclopentane         0.00742953         0.115286           Benzene         0.00110105         0.0170854            Cyclohexane         0.0119202         0.184969             2-Methylhexane         0.0288055         0.446984              3-Methylhexane         0.0305849         0.474597               2,2,4-Trimethylpentane         0         0         0	n-Hexane			0.0836966	1.29875				
Cyclohexane         0.0119202         0.184969         Image: constraint of the system           2-Methylhexane         0.0288055         0.446984         Image: constraint of the system         Image: constrainton system         Image: constraint of the syst				0.00742953	0.115286				
2-Methylhexane         0.0288055         0.446984           3-Methylhexane         0.0305849         0.474597           2,2,4-Trimethylpentane         0         0           n-Heptane         0.086901         1.34847           Methylcyclohexane         0.032277         0.500853           Toluene         0.00583975         0.0906173           n-Octane         0.149058         2.31299           Ethylbenzene         0.00559576         0.0924796           m-Xylene         0.0120746         0.187366           o-Xylene         0.0120746         0.187366           n-Doctane         0.104693         1.62456           water         0.311642         4.83585           Water         93.5556         0           Mass Flow         2         6									
3-Methylhexane       0.0305849       0.474597       Image: Constraint of the system									
2,2,4-Trimethylpentane         0         0         0           n-Heptane         0.086901         1.34847             Methylcyclohexane         0.032277         0.500853             Toluene         0.00583975         0.0906173              n-Octane         0.149058         2.31299               Ethylbenzene         0.00620005         0.0924796 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
n-Heptane         0.086901         1.34847         Image: constraint of the system           Methylcyclohexane         0.032277         0.500853         Image: constraint of the system           Toluene         0.00583975         0.0906173         Image: constraint of the system         Image: constraint of the system           n-Octane         0.149058         2.31299         Image: constraint of the system         Image: constraint of the system           Ethylbenzene         0.00595976         0.0924796         Image: constraint of the system         Image: constraint of the system           m-Xylene         0.00620005         0.09262083         Image: constraint of the system         Image: constraint of the system           o-Xylene         0.0120746         0.187366         Image: constraint of the system         Image: constraint of the system           o-Xylene         0.104693         1.62456         Image: constraint of the system         Image: constraint of the system           n-Decane         0.101413         1.57365         Image: constraint of the system         Image: constraint of the system           Water         93.5556         0         Image: constraint of the system         Image: constraint of the system         Image: constraint of the system           Mass Flow         Image: constraint of the system         Image: constraint of the system									
Methylcyclohexane         0.032277         0.500853         Image: Constraint of the system           Toluene         0.00583975         0.0906173         Image: Constraint of the system         Image: Constraint of the									
n-Octane         0.149058         2.31299             Ethylbenzene         0.00595976         0.0924796              m-Xylene         0.00620005         0.0962083               o-Xylene         0.0120746         0.187366	Methylcyclohexane			0.032277	0.500853				
Ethylbenzene         0.00595976         0.0924796         Image: constraint of the system         Image: consthe system         Image: consthe system <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
m-Xylene         0.00620005         0.0962083         Image: colored									
o-Xylene         0.0120746         0.187366         Image: constraint of the system           n-Nonane         0.104693         1.62456         Image: constraint of the system         Image: constraint of the system <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
n-Nonane     0.104693     1.62456       n-Decane     0.101413     1.57365       C11     0.311642     4.83585       Water     93.5556     0         Mass Flow     2     6									
n-Decane         0.101413         1.57365         Image: constraint of the state of t									
C11         0.311642         4.83585         Image: Constraint of the second s									
2     6       Mass Flow     Ib/h	C11			0.311642					
Mass Flow Ib/h Ib/h	Water			93.5556	0				
Mass Flow Ib/h Ib/h						· · ·			
	Maaa Flau								
	Mass Flow Hydrogen Sulfide			<b>Ib/h</b>	<b>lb/h</b>				

\* User Specified Values ? Extrapolated or Approximate Values

			Process Stre All Str Tabulated by	eams		
Client Name: C	Chevron Appala	chia, LLC			Job: 1,191 Blowdown	143 bbls/yr PW Production
	Berger Wellpad					
Flowsheet: F	lowsheet1					
				· · · ·		· · · ·
Mass Flow			2 Ib/h	6 Ib/h		
Nitrogen			14.3841	1.78763		
Carbon Dioxide Methane			8.03853 1312.97	0.99901		
Ethane			620.784	77.1495		
Propane			388.679	48.3042		
Isobutane			63.0075	7.83043		
n-Butane			173.156	21.5194		
2,2-Dimethylpropane			1.26819	0.157607		
Isopentane n-Pentane			54.2188 79.195	6.73818 9.84216		
2,2-Dimethylbutane			1.63913	0.203707		
Cyclopentane			0.158734	0.019727		
2,3-Dimethylbutane			3.646	0.453116		
2-Methylpentane			22.097	2.74616		
3-Methylpentane			14.0427	1.74519		
n-Hexane			42.2292	5.24815		
Methylcyclopentane			3.74858	0.465865		
Benzene			0.555538	0.069041		
Cyclohexane 2-Methylhexane			6.01434 14.5338	0.747448 1.80623		
3-Methylhexane			14.5336	1.91781		
2,2,4-Trimethylpentan	۵		15.4517	0		
n-Heptane	0		43.8461	5.44908		
Methylcyclohexane			16.2854	2.02391		
Toluene			2.94645	0.366178		
n-Octane			75.2076	9.34662		
Ethylbenzene			3.00701	0.373704		
m-Xylene			3.12825	0.388771		
o-Xylene n-Nonane			6.09228 52.823	0.757134 6.56472		
n-Decane			51.1679	6.35903		
C11			157.239	19.5413		
Water			47203.6	0		
			Stream P	roperties		
Property		Units	2	6		· · · · · · · · · · · · · · · · · · ·
Temperature		°F	135.046	135		
Pressure		psia	3914.7	3914.7		
Mole Fraction Vapor		%	4.24868	100		
Mole Fraction Light Lic		%	95.7513	0		
Mole Fraction Heavy L	iquid	%	0	0		
Molecular Weight Mass Density		lb/lbmol lb/ft^3	18.3961	26.5409		
Molar Flow		lbmol/h	54.8203 2742.71	20.4182 15.2253		
Mass Flow		lb/h	50455.2	404.093		
Vapor Volumetric Flow	1	ft^3/h	920.374	19.7908		
Liquid Volumetric Flow		gpm	114.748	2.46743		
Std Vapor Volumetric		MMSCFD	24.9796	0.138667		
Std Liquid Volumetric	Flow	sgpm	110.921	2.05777		
Compressibility			0.20583	0.797361		
Specific Gravity				0.916384		
API Gravity Enthalpy		Btu/h	-3.23637E+08	-599187		
Mass Enthalpy		Btu/lb	-6414.34	-1482.79		
Mass Cp		Btu/(lb*°F)	0.962222	0.750782		
Ideal Gas CpCv Ratio			1.3123	1.18432		
Dynamic Viscosity		cP		0.0411885		
Kinematic Viscosity		cSt		0.125932		
Thermal Conductivity		Btu/(h*ft*°F)		0.0493632		

\* User Specified Values ? Extrapolated or Approximate Values

			Process Strea All Stre Tabulated by	eams			
Client Name:	Chevron App	alachia, LLC			Job: 1,191 Blowdown	143 bbls/yr PW Pro	duction
Location:	Berger Wellpa	ad					
Flowsheet:	Flowsheet1						
Property		Units	Stream Pr	operties 6			
Surface Tension		lbf/ft					
Net Ideal Gas He	ating Value	Btu/ft^3	63.6098	1424.07			
Net Liquid Heatin	g Value	Btu/lb	314.538	20265.7			
Gross Ideal Gas I		Btu/ft^3	117.791	1561.05			
Gross Liquid Hea	ting Value	Btu/lb	1432.21	22224			
Remarks							

			Ene	ergy Stream Repo	ort				
Client Name:	Chevron A	ppalachia, LLC	lachia, LLC Job: 1,191,143 bbls/yr PW Prod Blowdown						
Location:	Berger We	llpad							
Flowsheet:	Flowsheet	1							
				Energy Streams	·				
Energy Stream		Energy Rate		Power	From Block				
Q-2			Btu/h	-4.52582 hp		VSSL-102			
Q-3		-3.2407E+06 B	Btu/h	-1273.64 hp		VSSL-101			
Remarks									

Simulation Initiated on 7/2	Simulation Initiated on 7/20/2015 4:33:35 PM FrancisBlowdown 1,191,143bpy_7.20.15.pmx						Page 1 of 1			
			MIX	OCKS (-100 litter Report						
Client Name:	Chevron Appala	achia, LLC			Job: 1,191, Blowdown	143 bbls/yr PW	Production			
Location:	Berger Wellpad				Modified: 1	1:14 AM, 5/18/2	2015			
Flowsheet:	Flowsheet1			ved 4:28 PM, 7	/20/2015					
	Connections									
Stream	Connect	ion Type	Other Block	Stream	Connect	ion Type	Other Block			
Cond	In	let		Water	In	et				
2	Ou	tlet	VSSL-101							
			Block Pa	arameters						
Pressure Drop			0 psi	Fraction to PStream	2		100 %			
Remarks										

Simulation Initiated on 7/2	Simulation Initiated on 7/20/2015 4:33:35 PM FrancisBlowdown 1,191,143bpy_7.20.15.pmx						Page 1 of 1		
			MIX	cks -101 itter Report					
Client Name:	Chevron Appala	ichia, LLC			Job: 1,191, Blowdown	143 bbls/yr PW	Production		
Location:	Berger Wellpad				Modified: 1	0:34 AM, 5/18/2	2015		
Flowsheet:	Flowsheet1			Status: Sol	ved 4:28 PM, 7	/20/2015			
	Connections								
Stream	Connect	ion Type	Other Block	Stream	Connect	ion Type	Other Block		
PW	In	let	VSSL-101	Stable Oil	In	let	VSSL-101		
1	Ou	tlet							
			Block Pa	arameters					
Pressure Drop			0 psi	Fraction to PStream 1			100 %		
Remarks									

		91,143bpy_7.20.15.pmx			Page 1 of 1				
	MIX	-102							
Chevron Appalachia, LLC			Job: 1,191, Blowdown	143 bbls/yr PV	V Production				
Berger Wellpad									
lowsheet1			Status: Solv	ved 10:15 AM,	5/18/2015				
Connections									
Connection Type	Other Block	Stream	Connect	ion Type	Other Block				
Inlet		Sample Sep Gas	In	et					
Outlet	VSSL-102		_	_					
	Block Pa	rameters							
	0 psi	Fraction to PStream Combined Stream			100 %				
3	Berger Wellpad lowsheet1 Connection Type Inlet	Mixer/Spli Chevron Appalachia, LLC Berger Wellpad Nowsheet1 Connection Type Other Block Inlet Outlet VSSL-102 Block Pa	Berger Wellpad Nowsheet1 Connections Connection Type Other Block Stream Inlet Sample Sep Gas Outlet VSSL-102 Block Parameters 0 psi Fraction to PStream	MIX-102 Mixer/Splitter Report         Chevron Appalachia, LLC       Job: 1,191, Blowdown         Berger Wellpad       Modified: 10 Modified: 10 Status: Solv         Connections         Connections         Connections         Connections         Connections         Other Block       Stream       Connect         Inlet       Sample Sep Gas       Inlet         Outlet       VSSL-102       VSSL-102         Block Parameters         0       psi       Fraction to PStream	MIX-102 Mixer/Splitter Report         Job: 1,191,143 bbls/yr PV Blowdown         Berger Wellpad       Modified: 10:05 AM, 5/18, Status: Solved 10:15 AM,         Connections         Connections         Connections         Connection Type         Inlet       Sample Sep Gas       Inlet         Outlet       VSSL-102       Fraction to PStream				

Simulation Initiated on 7/20	)/2015 4:33:35 PM	BI	191,143bpy_7.20.15.pmx ocks SL-101 itor Report		Page 1 of				
Client Name:	Chevron Appalachia, LLC			Job: 1,191,143 bbls/yr PW P Blowdown	roduction				
Location:	Berger Wellpad			Modified: 11:14 AM, 5/18/20	15				
Flowsheet:	Flowsheet1			Status: Solved 4:28 PM, 7/20	)/2015				
Connections									
Stream	Connection Type	Other Block	Stream	Connection Type	Other Block				
2	Inlet	MIX-100	Flash	Vapor Outlet					
Stable Oil	Light Liquid Outlet	MIX-101	PW	Heavy Liquid Outlet	MIX-101				
Q-3	Energy								
		Block P	arameters						
Pressure Drop		3900 psi	Main Liquid Phase	Light Liqui	id				
Mole Fraction Vap	oor 4.4	8124 %	Heat Duty	-3.2407E+0					
Mole Fraction Ligh			Heat Release Curve T						
Mole Fraction Hea	avy Liquid 95.	4247 %	Heat Release Curve		5				
			Increments						
Remarks									

Simulation Initiated on 7/20/			VS	locks SL-102 rator Report			Page 1 c
Client Name:	Chevron Appala	chia, LLC				143 bbls/yr P\	V Production
_ocation:	Berger Wellpad				Blowdown Modified: 1	0:20 AM, 5/18	/2015
	Flowsheet1					ved 4:22 PM,	
lowoneet.					010100.001	VCG 4.22 T W, 9	0/10/2010
			Con	nections			
Stream	Connect	ion Type	Other Block	Stream	Connect	ion Type	Other Block
Combined Stream	In	let	MIX-102	6	Vapor	Outlet	
Condensate from We	ell Light Liqu	uid Outlet		Q-2	Ene	ergy	
			Block I	Parameters			
Pressure Drop		-371	7 psi	Main Liquid Phase		Light L	iquid
Mole Fraction Vapo	or		0 %	Heat Duty		-115	515.7 Btu/h
Mole Fraction Light			0 %	Heat Release Curve T	уре	Plug	Flow
Mole Fraction Heav	vy Liquid		0 %	Heat Release Curve	5		
				Increments			
Warnings ProMax:ProMax!Proje Warning:				rties!PDrop ered in block VSSL-102.			
Remarks							

		F		Environment onment1			
Client Name:	Chevron Appala	chia, LLC				143 bbls/yr PW Productio	on
Leastien	Dennen Malle ed				Blowdown		
Location: Flowsheet:	Berger Wellpad Flowsheet1						
riowsneet.	FIOWSHEELT				1		
			Environm	ent Settings			
Number of Poyntin	na Intervals	0		Freeze Out Temperatu	Ire	10 °F	
	ig intervals	0		Threshold Difference		10 1	
Gibbs Excess Mo	del	77 °F		Phase Tolerance		1 %	
Evaluation Tempe	rature						
· · · · · ·							
			Comp	oonents			
Component Name		Henry`s Law	Phase	Component Name		Henry`s Law	Phase
		Component	Initiator			Component	Initiator
Hydrogen Sulfide		False	False	Methylcyclopentane		False	False
Nitrogen		False	False	Benzene		False	False
Carbon Dioxide		False	False	Cyclohexane		False	False
Methane		False	False	2-Methylhexane		False	False
Ethane		False	False	3-Methylhexane		False	False
Propane		False	False	2,2,4-Trimethylpentane		False	False
Isobutane		False	False	n-Heptane		False	False
n-Butane		False	False	Methylcyclohexane		False	False
2,2-Dimethylpropan	Э	False	False	Toluene		False	False
Isopentane		False	False	n-Octane		False	False
n-Pentane		False	False	Ethylbenzene		False	False
2,2-Dimethylbutane		False	False	m-Xylene		False	False
Cyclopentane		False	False	o-Xylene		False	False
2,3-Dimethylbutane		False	False	n-Nonane		False	False
2-Methylpentane		False	False	n-Decane		False False	False
3-Methylpentane n-Hexane		False False	False False	C11 Water		False	False True
n-nexane		Faise	Faise	Water		Faise	True
		P'	· · · · D				
			Ical Prope	erty Method Sets			
	)	COSTALD		Overall Package		Peng-Robins	on
Liquid Molar Volume Stability Calculation Light Liquid Package			on	Overall Package Vapor Package Heavy Liquid Package		Peng-Robins Peng-Robins Peng-Robins	on

		Calculate	or Report		
Client Name:	Chauran Annalashia LLC			lab: 1 101	142 hblo/ur DW Droduction
Client Name:	Chevron Appalachia, LLC			Blowdown	143 bbls/yr PW Production
Location:	Berger Wellpad				
		Simple	Solver 1		
			e Code		
Residual Error (for C	V1) = Water/99-1				
			ariable [CV1]		
SourceMoniker	ProMax:ProMax!Project!Flowshee			Il!Properties!	Std Liquid Volumetric Flow
Value	3235.32				
Unit	bbl/d				
		Measured Va	riable [Water]		
SourceMoniker Value	99.024	ets!Flowsheet1!PSt	reams!1!Phases!Total!Cor	mposition!St	d. Liquid Volumetric Fraction!Water
Unit	%			_	
		Solver P	roperties		Status: Solved
Error	0.00024265	Solver F	Iterations		4
Calculated Value	94.3635	sgpm	Max Iterations		20
Lower Bound		sgpm	Weighting		<u> </u>
Upper Bound Step Size		sgpm sgpm	Priority Solver Active		Active
Is Minimizer	False	ogpin	Group		
Algorithm	Default		Skip Dependency Che	ck	False
			Solver 2		
Desidual Error (for C	()(1) Thruput/1101112 1	Source	e Code		
Residual Error (for C	:V1) = Thruput/1191143-1				
		Calculated V	ariable [CV1]		
SourceMoniker	ProMax:ProMax!Project!Flowshee	ts!Flowsheet1!PSt	reams!Cond!Phases!Total	Properties!	Std Liquid Volumetric Flow
Value	567.698				
Unit	bbl/d				
		Measured Var	iable [Thruput]		
SourceMoniker	ProMax:ProMax!Project!Flowshee	ts!Flowsheet1!PSt	reams!1!Phases!Total!Pro	perties!Std L	Liquid Volumetric Flow
Value	1.19114E+06			•	
Unit	bbl/year				
		Solver P	roperties		Status: Solved
Error	3.04998E-09	0011011	Iterations		4
Calculated Value	16.5579	sgpm	Max Iterations		20
Lower Bound		sgpm	Weighting		1
Upper Bound Step Size		sgpm sgpm	Priority Solver Active		0 Active
Is Minimizer	False	Sgpin	Group		Active
Algorithm	Default		Skip Dependency Che	ck	False
Remarks					

Ciridiation initiated on 1/2	20/2015 4:33:35 PIVI		Trancisbiowdown	11,191,1430py_7.20.15.pmx		Page I
			User Valu	ie Sets Report		
Client Name:	Chevron Appala	chia, LLC			Job: 1,191, Blowdown	143 bbls/yr PW Production
_ocation:	Berger Wellpad				Biowdown	
	ł					
				Tank-1		
Parameter		1	User Valu fractional	e [BlockReady] Upper Bound		fractional
Lower Bound			fractional	* Enforce Bounds		False
			Lleen Velu			
Parameter		20		e [ShellLength] Upper Bound		ft
Lower Bound			ft	* Enforce Bounds		False
				ue [ShellDiam]		
Parameter		12		Upper Bound		ft
Lower Bound		0	ft	* Enforce Bounds		False
			llsor Valu	e [BreatherVP]		
Parameter		0.03		Upper Bound		psig
Lower Bound			psig	* Enforce Bounds		False
			User Value	e [BreatherVacP]		
Parameter		-0.03		Upper Bound		psig
Lower Bound			psig	* Enforce Bounds	_	False
			User Valu	e [DomeRadius]		
Parameter		6	ft	Upper Bound		ft
Lower Bound			ft	* Enforce Bounds		False
			User Va	lue [OpPress]		
Parameter		0.5	psig	Upper Bound		psig
Lower Bound			psig	* Enforce Bounds		False
			User Value	[AvgPercentLiq]		
Parameter		50	%	Upper Bound		%
Lower Bound			%	* Enforce Bounds		False
			User Value	[MaxPercentLiq]		
Parameter Lower Bound		90	%	Upper Bound * Enforce Bounds		% Falsa
			%	Enlorce Bounds		False
				ue [AnnNetTP]		
Parameter Lower Bound		20.9011	bbl/day bbl/day	Upper Bound * Enforce Bounds		bbl/day False
Lower Bound		0	bbl/day	Enloree Bounds		1 4150
_				alue [OREff]		
Parameter Lower Bound		0	%	Upper Bound * Enforce Bounds		% False
Dana i				lue [MaxAvgT]		
Parameter Lower Bound		59.9	°F °F	Upper Bound * Enforce Bounds		°F False
Deremeter		40.7		Iue [MinAvgT]		0
Parameter Lower Bound		40.7	°F °F	Upper Bound * Enforce Bounds		°F False
Doromotor		44 4005		/alue [AvgP]		ncia
Parameter		14.1085		Upper Bound		psia

\* User Specified Values ? Extrapolated or Approximate Values ProMax 3.2.12198.0 Copyright © 2002-2012 BRE Group, Ltd.

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		User Value	Sets Report		
Client Name:	Chevron Appala	chia, LLC		Job: 1,191,	143 bbls/yr PW Production
l a calla c	Dennen Maille est			Blowdown	
Location:	Berger Wellpad				
		User Val	ue [AvgP]		
Lower Bound		psia	* Enforce Bounds		False
* Denemeter			ue [Thermi]		
* Parameter Lower Bound		1069 Btu/ft^2/day Btu/ft^2/day	Upper Bound * Enforce Bounds		Btu/ft^2/day False
Lower Doding		Bran Library	Enforce Bounde		i dibb
		User Value [A	vgWindSpeed]		
* Parameter		9.1 mi/h	Upper Bound		mi/h
Lower Bound		mi/h	* Enforce Bounds		False
* Doromotor			AtmPressure]		ncio
* Parameter Lower Bound		14.1085 psia psia	Upper Bound * Enforce Bounds		psia False
Lower Doding		pola	Enforce Bounde		1 400
		User Va	lue [TVP]		
* Parameter		1.97251 psia	Upper Bound		psia
Lower Bound		psia	* Enforce Bounds		False
			vgLiqSurfaceT]		
* Parameter		60.2465 °F °F	Upper Bound * Enforce Bounds		°F
Lower Bound		Г			False
		User Value [M	axLiqSurfaceT]		
* Parameter		70.3624 °F	Upper Bound		°F
Lower Bound		°F	* Enforce Bounds		False
			[TotalLosses]		
* Parameter		0.156811 lb/h	Upper Bound		lb/h
Lower Bound		lb/h	* Enforce Bounds		False
		Llsor Value IV	VorkingLosses]		
* Parameter		0.0914448 lb/h	Upper Bound		lb/h
Lower Bound		lb/h	* Enforce Bounds		False
				· · · · · · · · · · · · · · · · · · ·	
			tandingLosses]		
* Parameter		0.0653657 lb/h	Upper Bound		lb/h
Lower Bound		lb/h	* Enforce Bounds		False
* Parameter			imSealLosses]		top/ur
Lower Bound		0 ton/yr ton/yr	Upper Bound * Enforce Bounds		ton/yr False
		User Value [W	/ithdrawalLoss]		
* Parameter		0 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False
* D			oadingLosses]		
* Parameter Lower Bound		0.0552261 lb/h lb/h	Upper Bound * Enforce Bounds		lb/h False
Lower Dound		10/11	Enlorce Dounds		1 0150
		User Value [De	ckFittingLosses]		
* Parameter		0 ton/yr	Upper Bound		ton/yr
Lower Bound		ton/yr	* Enforce Bounds		False

\* User Specified Values ? Extrapolated or Approximate Values

		User Valu	e Sets Report				
Client Name:	Chevron Appala	chia, LLC		Job: 1,191, Blowdown	143 bbls/yr PW Production		
Location:	Berger Wellpad			Diowdown			
* Parameter		0 ton/yr	DeckSeamLosses] Upper Bound		ton/yr		
Lower Bound		ton/yr	* Enforce Bounds		False		
201101 200110							
		User Value (	[FlashingLosses]				
* Parameter		0 ton/yr	Upper Bound		ton/yr		
Lower Bound		ton/yr	* Enforce Bounds		False		
		User Value	[GasMoleWeight]				
* Parameter		0.053233 kg/mol	Upper Bound		kg/mol		
Lower Bound		kg/mol	* Enforce Bounds		False		
<b>Remarks</b> This User Value Set	Remarks This User Value Set was programmatically generated. GUID={4DEAFC69-B549-4E7C-957A-1D44EDE2D6E4}						
			low/Frac.15				
			e [CnPlusSum]				
* Parameter		4206.54 ton/yr	Upper Bound		ton/yr		
Lower Bound		ton/yr	* Enforce Bounds		False		
Dementer							
Remarks This User Value Set	was programmat	tically generated. GUID={B7CEB1	0E-4845-4F2F-A3B6-9A061	3AFA330}			

Retrograde Gas PVT Fluid Study for AB Resources, LLC Cavenney No. 1-H Wildcat Marshall County, West Virginia

The analysis, opinions and interpretations contained in this report are based upon observations, assumptions, empirical factors, inferences and data supplied by the customer, which are not infallible. The results expressed in this report represent the best judgment of FESCO. Accordingly, FESCO assumes no responsibility and makes no warranty as to the accuracy or correctness of any analysis, opinion or interpretation. FESCO shall not be liable or responsible for any loss, cost, damage, claim or expense whatsoever incurred or sustained by the customer resulting from any analysis, opinion or interpretation made by any of our employees.



	Table of Contents	
<u>ltem #</u>	Item Description	Page
	Summary Information	
1	Summary Letter	1
2	Well Summary	3
3	Results Summary	4
4	Sample Summary	5
	Separator Fluid Analyses	
5	Table 1-A: C <sub>7+</sub> Separator Effluent Compositional Analyses	6
6	Table 1-B: C <sub>11+</sub> Separator Effluent Compositional Analyses	7
7	Table 1-C: C <sub>31+</sub> Separator Effluent Compositional Analyses	9
8	Hoffman Table and Plot	11
9	Table 2: Separator Liquid Flash	12
	Constant Composition Expansion	
10	Table 3: Constant Composition Expansion (CCE)	13
11	Figure 1: Relative Volume vs Pressure	14
12	Figure 2: Density vs Pressure	15
13	Figure 3: Y-Function vs Pressure	16
14	Figure 4: Retrograde Liquid Volume (%HCPV) vs Pressure	17
15	Figure 5: Retrograde Liquid Volume (Bbls/MM) vs Pressure	18
16	Figure 6: Gas Deviation Factor (Z) vs Pressure	19
17	Figure 7: Gas Expansion Factor vs Pressure	20
	Constant Volume Depletion	
18	Table 4: Constant Volume Depletion Study at 135 °F	21
19	Figure 8: Gas Deviation Factor vs Pressure	22
20	Figure 9: P/Z vs Cumulative Produced Wellstream Percent	23
21	Figure 10: Cumulative Produced Wellstream Percent vs Pressure	24
22	Figure 11: GPM of $C_{3+}$ , $C_{4+}$ , $C_{5+}$ vs Pressure	25
23	Table 5: Calculated Cumulative Recovery During Depletion at 135 °F	26
24	Table 6: Retrograde Condensation During Depletion at 135 °F	27
25	Figure 12: Retrograde Liquid Volume (%HCPV) vs Pressure	28
26	Figure 13: Retrograde Liquid Volume (Bbls/MM) vs Pressure	29
27	Appendix	30+

February 15, 2010

Mr. Mark Deal AB Resources, LLC 6802 W. Snowville Road, Suite E Brecksville, Ohio 44141

Re:	Well:	Cavenney No. 1-H
	Field:	Wildcat
	Location:	Marshall County, West Virginia
	Formation:	Marcellus Shale
	Perforations:	Horizontal Completion; Datum - Unavailable
	Test Type:	Retrograde Gas PVT Fluid Study

Dear Mr. Deal:

The attached report contains results from a laboratory study performed on the recombined separator fluids from the subject well. The study determined the type and character of the reservoir fluid. The fluid study was performed using first-stage separator gas and oil samples obtained from the well on December 16, 2009 by FESCO, Ltd. FESCO then delivered the separator samples to its PVT laboratory in Alice, Texas. Extended compositional analyses were performed on the separator gas ( $C_{11+}$ ) and on the separator oil ( $C_{31+}$ ) samples. Tables 1-A through 1-C list the compositional analyses of the separator gas, separator oil and mathematically recombined wellstream fluid through  $C_{7+}$ ,  $C_{11+}$  and  $C_{31+}$ , respectively. The Appendix contains the Report of Water Analysis. Table 2 reports the fluid properties measured as the separator oil was flashed from separator conditions to ambient laboratory conditions.

The separator gas and oil were physically recombined in a visual PVT cell at the reservoir temperature of 135 °F and at the reported gas-oil ratio of 12809 Scf/Sep Bbl (18000 Scf/STB). The recombined fluid was evaluated during a Constant Composition Expansion (CCE) process at pressures ranging from 7000 to 825 psig. The resulting CCE data is reported in Table 3. *A retrograde dew point was observed at 2981 psig.* The static reservoir pressure is higher than the observed retrograde dew point pressure. Therefore, the reservoir fluid exists as undersaturated (single-phase) gas at static reservoir conditions of 3900 psig and 135 °F. Figures 1 through 7 illustrate the data reported in Table 3.

AB Resources, LLC Cavenney No. 1-H February 15, 2010

A constant volume depletion (CVD) study was performed on the reservoir fluid to model wellstream production below the dew point. A CVD study consists of a series of expansions and constant pressure displacements terminating at the original saturated reservoir (dew point) volume. Table 4 provides the displaced wellstream volume and compositional analysis measured at each depletion pressure. The abandonment CVD residual oil composition is reported in the Appendix. Figures 8 and 10 illustrate the gas deviation factors (equilibrium gas and 2-phase) and cumulative produced wellstream volume, respectively, versus pressure as reported in Table 4. Figure 9 shows the corresponding P/Z (equilibrium gas and 2-phase) versus cumulative produced wellstream percent. Figure 11 presents the  $C_{3+}$ ,  $C_{4+}$  and  $C_{5+}$  GPM content of the wellstream gas at each depletion pressure.

The cumulative stock tank oil and sales gas recoveries using normal-temperature single-stage separation were calculated from the produced wellstream volumes and their corresponding compositions. The plant liquid products produced during the single-stage separation were also calculated. The total plant products in the wellstream were then determined. The results are shown in Table 5. All recoveries are based on one MMscf of original reservoir fluid at the retrograde dew point and 100 percent plant efficiency.

Table 6 contains the cumulative retrograde liquid volume that condensed during the CVD process at reservoir temperature (135 °F). The maximum observed volume of condensed retrograde liquid was 5.155 percent of the hydrocarbon pore space at 1500 psig. Figures 12 and 13 illustrate the condensed retrograde liquid volume reported in Table 6 versus pressure.

Thank you for this opportunity to serve AB Resources, LLC. Please call me if you have any questions or concerns regarding this report.

Sincerely,

FESCO, Ltd.

Armando Ramirez Natural Gas Engineer Alice, Texas Phone: 361-661-7015 Email:<u>Armando.Ramirez@FescoInc.com</u> Eddie Bickham, P. E. Vice - President Alice, Texas Phone: 361-661-7000 Ext. 115 Email: <u>Ed.Bickham@FescoInc.com</u>



### WELL SUMMARY

#### WELL INFORMATION

Company: Well Name: Field: Location:

### **RESERVOIR INFORMATION**

Formation: Perforations: Reservoir Datum: Reservoir Temperature: Static Reservoir Pressure: Flowing Reservoir Pressure:

### SAMPLE INFORMATION

Sampling Date: Sampled By: Sample Type: Flowing Tubing Pressure: 1st Stage Separator Pressure: 1st Stage Separator Temperature: 2nd Stage Separator Pressure: 2nd Stage Separator Temperature:

### **PRODUCTION INFORMATION**

Test Date: 1st Stage Separator Gas Rate: Stock Tank Oil Rate: Water Rate: Stock Tank Gas-Oil Ratio: Separator Gas-Oil Ratio: Separator Oil Volume Factor: AB Resources, LLC Cavenney No. 1-H Wildcat Marshall County, West Virginia

Marcellus Shale Horizontal Completion Unavailable 135 °F 3900 psig Unavailable

12/16/2009 FESCO, Ltd. - Shinnston, West Virginia 1st-Stage Separator Gas and Oil 1625 psig 183 psig 49 °F Not Present Not Present

12/16/2009 4500 Mcf/d 250.00 STB/d 45.00 STB/d 18000 Scf 1st Stage Gas / STB 12809 Scf 1st Stage Gas / Sep Bbl 1.40521 Sep Oil Vol / STO Vol



### **RESULTS SUMMARY**

Company:	AB Resources, LLC
Well:	Cavenney No. 1-H
Type of Test:	Retrograde Gas PVT Fluid Study
Reservoir Fluid Type:	Undersaturated Gas
Saturation Conditions: Pressure (Retrograde Dew Point): Temperature: Gas Deviation Factor (Z): Gas Expansion Factor:	2981 psig 135 °F 0.71982 1.36145 Mscf/Bbl
Reservoir Conditions: Pressure: Temperature: Gas Deviation Factor (Z): Gas Expansion Factor:	3900 psig 135 °F 0.82737 1.54962 Mscf/Bbl
Report Date:	2/15/2010

## FESCO, Ltd. Petroleum Engineers



SAMPLE SUMMARY						
Company: Well: Sample Date:		AB Resources, LLC Cavenney No. 1-H 12/16/09				
<b>Separator Co</b> Pressure: Temperatu		183 psig 49 °F				
Laboratory Q Separator	-	PressureTemperature182 psig74 °F182 psig74 °F				
Separator	Liquid: Cylinder ID No. W-1003* Cylinder ID No. W-1001	BP PressureTemperature213 psig74 °F211 psig74 °F				
Report Date:	2/15/2010 * Samples used in	n fluid study				

### TABLE 1-A

# COMPOSITIONAL ANALYSIS OF THE SEPARATOR GAS, OIL AND MATHEMATICALLY RECOMBINED WELLSTREAM THROUGH $C_{7+}$

SEPARATOR GOR..... 12809 Scf/Sep Bbl SEPARATOR PRESSURE..... 183 psig SEPARATOR TEMPERATURE.....: 49 °F

	SEPARA	TOR GAS	SEPARA	TOR OIL	WELLS	TREAM
		*		Liquid		*
Component	Mole%	GPM	Mole %	Volume %	Mole %	GPM
Hydrogen Sulfide	0.000	0.000	0.000	0.000	0.000	0.000
Nitrogen	0.452	0.000	0.021	0.006	0.420	0.000
Carbon Dioxide	0.160	0.000	0.017	0.007	0.149	0.000
Methane	71.877	0.000	5.379	2.282	66.896	0.000
Ethane	17.518	4.723	8.784	5.880	16.864	4.547
Propane	6.744	1.871	12.655	8.716	7.187	1.994
Iso-butane	0.688	0.227	3.269	2.676	0.881	0.291
N-butane	1.672	0.531	11.633	9.175	2.418	0.768
2-2 Dimethylpropane	0.010	0.004	0.067	0.065	0.014	0.006
Iso-pentane	0.263	0.097	4.857	4.448	0.607	0.224
N-pentane	0.323	0.118	7.835	7.104	0.886	0.323
2-2 Dimethylbutane	0.005	0.002	0.143	0.149	0.015	0.006
Cyclopentane	0.002	0.001	0.000	0.000	0.002	0.001
2-3 Dimethylbutane	0.007	0.003	0.368	0.378	0.034	0.014
2 Methylpentane	0.046	0.019	2.187	2.272	0.206	0.086
3 Methylpentane	0.026	0.011	1.429	1.460	0.131	0.054
Other Hexanes	0.000	0.000	0.000	0.000	0.000	0.000
n-Hexane	0.065	0.027	4.457	4.587	0.394	0.163
Heptanes Plus	0.142	0.067	36.897	50.795	2.895	1.595
TOTAL	100.000	7.701	100.000	100.000	100.000	10.072

HEPTANES PLUS (C7+) FRACTION CHARACTERISTICS							
	Molecular Vapor Gross Heating Value						
	Specific Gravity		Weight	Volume			
COMPONENT	°API	**	lb/lb-mole	Scf/Gal	***		
Gas	N/A	3.8011	110.090	21.105	5,870		
Oil	51.918	0.7715	133.929	18.035	127,239		
Wellstream	N/A	0.7703	132.848	18.155	N/A		

TOTAL SAMPLE CHARACTERISTICS							
			Molecular	Vapor	Gross Heating Value		
	Specific	Gravity	Weight	Volume	Dry	Saturated	
COMPONENT	°API	**	lb/lb-mole	Scf/Gal	***	***	
Gas	N/A	0.7648	22.058	129.858	1,342	1,319	
Oil	81.486	0.6644	83.781	24.828	N/A	112,792	
Wellstream	N/A	0.9212	26.681	46.354	N/A	N/A	

\* GPM (gallons per Mscf) determined at 14.85 psia and 60 °F

\*\* Gas specific gravity and wellstream specific gravity determined relative to air (SG=1.000). Oil specific gravity determined relative to water (SG=1.000).

\*\*\* Gross Heating Value units for gas (real basis) and oil are BTU/Scf and BTU/Gal, respectively.

## TABLE 1-B

# COMPOSITIONAL ANALYSIS OF THE SEPARATOR GAS, OIL AND MATHEMATICALLY RECOMBINED WELLSTREAM THROUGH $C_{\rm 11+}$

SEPARATOR GOR:	12809 Scf/Sep Bbl
SEPARATOR PRESSURE:	183 psig
SEPARATOR TEMPERATURE:	49 °F

	SEPARA	TOR GAS	SEPARATOR OIL		WELLS	TREAM
		*		Liquid		*
Component	Mole%	GPM	Mole %	Volume %	Mole %	GPM
Hydrogen Sulfide	0.000	0.000	0.000	0.000	0.000	0.000
Nitrogen	0.452	0.000	0.021	0.006	0.420	0.000
Carbon Dioxide	0.160	0.000	0.017	0.007	0.149	0.000
Methane	71.877	0.000	5.379	2.282	66.896	0.000
Ethane	17.518	4.723	8.784	5.880	16.864	4.547
Propane	6.744	1.871	12.655	8.716	7.187	1.994
Iso-butane	0.688	0.227	3.269	2.676	0.881	0.291
N-butane	1.672	0.531	11.633	9.175	2.418	0.768
2-2 Dimethylpropane	0.010	0.004	0.067	0.065	0.014	0.006
Iso-pentane	0.263	0.097	4.857	4.448	0.607	0.224
N-pentane	0.323	0.118	7.835	7.104	0.886	0.323
2-2 Dimethylbutane	0.005	0.002	0.143	0.149	0.015	0.006
Cyclopentane	0.002	0.001	0.000	0.000	0.002	0.001
2-3 Dimethylbutane	0.007	0.003	0.368	0.378	0.034	0.014
2 Methylpentane	0.046	0.019	2.187	2.272	0.206	0.086
3 Methylpentane	0.026	0.011	1.429	1.460	0.131	0.054
Other Hexanes	0.000	0.000	0.000	0.000	0.000	0.000
n-Hexane	0.065	0.027	4.457	4.587	0.394	0.163
Methylcyclopentane	0.006	0.002	0.404	0.358	0.036	0.013
Benzene	0.001	0.000	0.064	0.045	0.006	0.002
Cyclohexane	0.007	0.002	0.680	0.579	0.057	0.020
2-Methylhexane	0.011	0.005	1.419	1.651	0.116	0.055
3-Methylhexane	0.010	0.005	1.527	1.754	0.124	0.057
2,2,4 Trimethylpentane	0.000	0.000	0.000	0.000	0.000	0.000
Other Heptanes	0.009	0.004	1.202	1.309	0.098	0.043
n-Heptane	0.016	0.007	3.178	3.669	0.253	0.118
Methylcyclohexane	0.009	0.004	1.666	1.676	0.133	0.054
Toluene	0.002	0.001	0.318	0.267	0.026	0.009
Other C-8's	0.018	0.009	4.694	5.507	0.368	0.174
n-Octane	0.008	0.004	2.037	2.611	0.160	0.083
Ethylbenzene	0.001	0.000	0.291	0.281	0.023	0.009
M&P-Xylene	0.003	0.001	0.279	0.271	0.024	0.009
O-Xylene	0.001	0.000	0.602	0.573	0.046	0.018
Other C-9's	0.017	0.009	2.861	3.749	0.230	0.121
n-Nonane	0.006	0.003	1.268	1.786	0.101	0.057
Other C10's	0.012	0.007	2.882	4.150	0.227	0.132
n-Decane	0.002	0.001	0.797	1.224	0.062	0.038
Undecanes Plus	0.003	0.002	10.728	19.334	0.806	0.585
TOTAL	100.000	7.701	100.000	100.000	100.000	10.072

# TABLE 1-B

# COMPOSITIONAL ANALYSIS OF THE SEPARATOR GAS, OIL AND MATHEMATICALLY RECOMBINED WELLSTREAM THROUGH $C_{\rm 11+}$

SEPARATOR GOR..... 12809 Scf/Sep Bbl SEPARATOR PRESSURE..... 183 psig SEPARATOR TEMPERATURE...... 49 °F

UNDECANES PLUS (C <sub>11+</sub> ) FRACTION CHARACTERISTICS									
Molecular Vapor Gross Heating Value									
	Specific	Gravity	Weight	Volume					
COMPONENT	°API	**	lb/lb-mole	Scf/Gal	***				
Gas	N/A	0.8250	156.000	16.558	8,400				
Oil	40.935	0.8206	186.500	13.776	129,700				
Wellstream	N/A	0.8206	186.396	13.784	N/A				

TOTAL SAMPLE CHARACTERISTICS									
			Molecular	Vapor	Gross Heating Value				
	Specific	Gravity	Weight	Volume	Dry Saturate				
COMPONENT	°API	**	lb/lb-mole	Scf/Gal	***	***			
Gas	N/A	0.7648	22.058	129.858	1,342	1,319			
Oil	81.486	0.6644	83.781	24.828	N/A	112,792			
Wellstream	N/A	0.9212	26.681	46.354	N/A	N/A			

\* GPM (gallons per Mscf) determined at 14.85 psia and 60 °F

- \*\* Gas specific gravity and wellstream specific gravity determined relative to air (SG=1.000). Oil specific gravity determined relative to water (SG=1.000).
- \*\*\* Gross Heating Value units for gas (real basis) and oil are BTU/Scf and BTU/Gal, respectively.

# TABLE 1-C

# COMPOSITIONAL ANALYSIS OF THE SEPARATOR GAS, OIL AND MATHEMATICALLY RECOMBINED WELLSTREAM THROUGH $C_{\rm 31+}$

SEPARATOR GOR..... 12809 Scf/Sep Bbl SEPARATOR PRESSURE..... 183 psig SEPARATOR TEMPERATURE.....: 49 °F

	SEPARA	TOR GAS	SEPARA	TOR OIL	WELLSTREAM		
		*		Liquid	*		
Component	Mole%	GPM	Mole %	Volume %	Mole %	GPM	
Hydrogen Sulfide	0.000	0.000	0.000	0.000	0.000	0.000	
Nitrogen	0.452	0.000	0.021	0.006	0.420	0.000	
Carbon Dioxide	0.160	0.000	0.017	0.007	0.149	0.000	
Methane	71.877	0.000	5.379	2.281	66.896	0.000	
Ethane	17.518	4.723	8.784	5.880	16.864	4.547	
Propane	6.744	1.871	12.655	8.715	7.187	1.994	
Iso-butane	0.688	0.227	3.269	2.675	0.881	0.291	
N-butane	1.672	0.531	11.633	9.174	2.418	0.768	
2-2 Dimethylpropane	0.010	0.004	0.067	0.065	0.014	0.006	
Iso-pentane	0.263	0.097	4.857	4.448	0.607	0.224	
N-pentane	0.323	0.118	7.835	7.104	0.886	0.323	
2-2 Dimethylbutane	0.005	0.002	0.143	0.149	0.015	0.006	
Cyclopentane	0.002	0.001	0.000	0.000	0.002	0.001	
2-3 Dimethylbutane	0.007	0.003	0.368	0.378	0.034	0.014	
2 Methylpentane	0.046	0.019	2.187	2.272	0.206	0.086	
3 Methylpentane	0.026	0.011	1.429	1.460	0.131	0.054	
Other Hexanes	0.000	0.000	0.000	0.000	0.000	0.000	
n-Hexane	0.065	0.027	4.457	4.587	0.394	0.163	
Methylcyclopentane	0.006	0.002	0.404	0.358	0.036	0.013	
Benzene	0.001	0.000	0.064	0.045	0.006	0.002	
Cyclohexane	0.007	0.002	0.680	0.579	0.057	0.020	
2-Methylhexane	0.011	0.005	1.419	1.650	0.116	0.055	
3-Methylhexane	0.010	0.005	1.527	1.754	0.124	0.057	
2,2,4 Trimethylpentane	0.000	0.000	0.000	0.000	0.000	0.000	
Other Heptanes	0.009	0.004	1.202	1.309	0.098	0.043	
n-Heptane	0.016	0.007	3.178	3.669	0.253	0.118	
Methylcyclohexane	0.009	0.004	1.666	1.676	0.133	0.054	
Toluene	0.002	0.001	0.318	0.267	0.026	0.009	
Other C-8's	0.018	0.009	4.694	5.507	0.368	0.174	
n-Octane	0.008	0.004	2.037	2.611	0.160	0.083	
Ethylbenzene	0.001	0.000	0.291	0.281	0.023	0.009	
M&P-Xylene	0.003	0.001	0.279	0.271	0.024	0.009	
O-Xylene	0.001	0.000	0.602	0.573	0.046	0.018	
Other C-9's	0.017	0.009	2.861	3.748	0.230	0.121	
n-Nonane	0.006	0.003	1.268	1.786	0.101	0.057	
Other C10's	0.012	0.007	2.882	4.149	0.227	0.132	
n-Decane	0.002	0.001	0.797	1.224	0.062	0.038	
Undecanes	0.000	0.000	2.793	4.125	0.209	0.124	
Dodecanes	0.000	0.000	2.024	3.230	0.152	0.097	
Tridecanes	0.000	0.000	1.575	2.695	0.118	0.081	

# TABLE 1-C

# COMPOSITIONAL ANALYSIS OF THE SEPARATOR GAS, OIL AND MATHEMATICALLY RECOMBINED WELLSTREAM THROUGH $C_{\rm 31+}$

SEPARATOR GOR..... 12809 Scf/Sep Bbl SEPARATOR PRESSURE..... 183 psig SEPARATOR TEMPERATURE...... 49 °F

	SEPARATOR GAS SEP			TOR OIL	WELLS	<b>TREAM</b>
		*		Liquid		*
Component	Mole%	GPM	Mole %	Volume %	Mole %	GPM
Tetradecanes	0.003	0.002	1.170	2.145	0.090	0.067
Pentadecanes	0.000	0.000	0.866	1.701	0.065	0.051
Hexadecanes	0.000	0.000	0.620	1.300	0.046	0.039
Heptadecanes	0.000	0.000	0.465	1.031	0.035	0.031
Octadecanes	0.000	0.000	0.342	0.800	0.026	0.024
Nonadecanes	0.000	0.000	0.261	0.636	0.020	0.019
Eicosanes	0.000	0.000	0.184	0.465	0.014	0.014
Heneicosanes	0.000	0.000	0.138	0.368	0.010	0.011
Docosanes	0.000	0.000	0.102	0.283	0.008	0.009
Tricosanes	0.000	0.000	0.068	0.195	0.005	0.006
Tetracosanes	0.000	0.000	0.049	0.146	0.004	0.004
Pentacosanes	0.000	0.000	0.033	0.101	0.002	0.003
Hexacosanes	0.000	0.000	0.021	0.066	0.002	0.002
Heptacosanes	0.000	0.000	0.010	0.032	0.001	0.001
Octacosanes	0.000	0.000	0.003	0.011	0.000	0.000
Nonacosanes	0.000	0.000	0.002	0.006	0.000	0.000
Triacontanes	0.000	0.000	0.001	0.003	0.000	0.000
Hentriacontanes Plus	0.000	0.000	0.002	0.007	0.000	0.000
TOTALS	100.000	7.701	100.000	100.000	100.000	10.072

TOTAL SAMPLE CHARACTERISTICS										
			Molecular	Vapor	Gross Heating Value					
	Specific	Gravity	Weight	Volume	Dry	Saturated				
COMPONENT	°API	**	lb/lb-mole	Scf/Gal	***	***				
Gas	N/A	0.7648	22.058	129.858	1,342	1,319				
Oil	81.486	0.6644	83.781	24.828	N/A	112,792				
Wellstream	N/A	0.9212	26.681	46.354	N/A	N/A				

\* GPM (gallons per Mscf) determined at 14.85 psia and 60 °F

- \*\* Gas specific gravity and wellstream specific gravity determined relative to air (SG=1.000). Oil specific gravity determined relative to water (SG=1.000).
- \*\*\* Gross Heating Value units for gas (real basis) and oil are BTU/Scf and BTU/Gal, respectively.



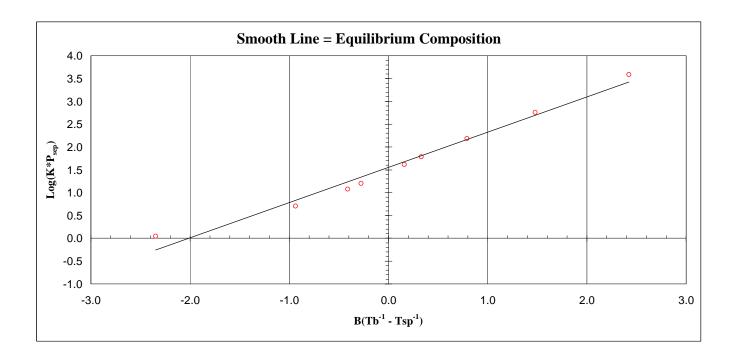
### **HOFFMAN PLOT**

#### EQUILIBRIUM CHECK of SEPARATOR LIQUID and GAS COMPOSITIONAL ANALYSES

	Gas (X)	Oil (Y)	Equil. Ratio	K*Psep	Normal BP (NBP)		Critical Pressure	Critical Temperature		Gra Resi	•
Components	Mole %	Mole %	(K=Y/X)	(psiA)	°R	$T_{NBP}^{-1}$ - $T_{SEP}^{-1}$	(Pc) psiA	(Tc) °R	<b>B</b> -Factor	B(1/Tb-1/Tsp)	Log(K*Psep)
N2	0.452	0.021	21.591	4271.85	139	0.005213	493	227	548	2.859	3.631
CO2	0.160	0.017	9.339	1847.75	350	0.000888	1071	548	1806	1.603	3.267
C1	71.877	5.379	13.363	2643.95	201	0.003009	668	343	803	2.415	3.422
C2	17.518	8.784	1.994	394.56	332	0.001044	708	550	1408	1.470	2.596
C3	6.744	12.655	0.533	105.44	416	0.000438	616	666	1793	0.785	2.023
IC4	0.688	3.269	0.210	41.64	471	0.000159	529	735	2030	0.323	1.620
NC4	1.672	11.633	0.144	28.44	491	0.000071	551	765	2150	0.153	1.454
IC5	0.273	4.924	0.055	10.97	542	-0.000120	490	829	2373	-0.285	1.040
NC5	0.323	7.835	0.041	8.16	557	-0.000169	489	845	2474	-0.418	0.911
C6	0.151	8.585	0.018	3.48	615	-0.000341	437	913	2773	-0.945	0.542
C7+	0.142	36.897	0.004	0.76	763	-0.000656	332	1070	3592	-2.355	-0.118
Total	100.000	100.000			•		•				-

Separator Pressure = 183 psig Separator Temperature = 49 °F

(Note: C7+ Critical Properties as C9. The C6 composition includes iso-hexanes.)





### TABLE 2

### FLASH LIBERATION OF 1st-STAGE SEPARATOR LIQUID

SEPARATOR CONDITIONS and FLUID PROPERTIES									
Image: SeparatorOilGatePressureTemperatureGORSpecificSpecificSpecificSpecific									
Conditions	psia	° <b>F</b>	(1)	(2)	(3)	(4)			
1st Stage Separator	198	49	N/A	1.4052	0.6644	0.7648			
Ambient Lab Conditions	14.66	72	599	1.0079	0.7271	1.5557			
Stock Tank	14.85	60	0	1.0000	0.7325	1.5557			
TOTALS			599						

Stock Tank Oil Gravity: 61.67 °API at 60 °F

(1) Gas-Oil Ratio (GOR) is the cubic feet of gas at standard conditions per barrel of stock tank oil.

(2) Barrels of oil at indicated separator conditions per barrel of stock tank oil.

(3) Water = 1.000

(4) Air = 1.000



#### TABLE 3

#### PRESSURE-VOLUME RELATION OF A 12809 Scf/Sep Bbl RESERVOIR FLUID AT 135 °F (Constant Composition Expansion)

Pressure, (psig)	Relative Volume	Density, (g/cc)	Y-Function (1)		iquid Volume Bbls / MMscf (3)	Gas Deviation Factor, Z	Gas Expansion Factor, (4)
7000         6000         5500         5000         4500         3900       Pres         3500         2981       Psat         2857         2778         2644         2436         2277         2147         1896         1710         1440         1249         1105         992         901         825	0.73253 0.76244 0.78155 0.80470 0.83347 0.87960 0.92162 1.00000 1.02540 1.04372 1.08087 1.15641 1.23289 1.30992 1.50408 1.69953 2.09247 2.48698 2.88245 3.27851 3.67504 4.07185	0.38172 0.36674 0.35777 0.34748 0.33549 0.31789 0.30340 0.27962 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A 1.69980 1.66249 1.56722 1.42176 1.31899 1.24476 1.12644 1.05338 0.96956 0.92161 0.88992 0.86700 0.84900 0.83569	N/A N/A N/A N/A N/A N/A N/A 0.00% 0.82% 1.31% 2.16% 3.22% 3.89% 4.46% 5.22% 5.57% 5.67% 5.57% 5.57% 5.56% 5.36% 5.24% 5.12% 5.04%	N/A N/A N/A N/A N/A N/A N/A 0.000 5.949 9.529 15.738 23.534 28.356 32.572 38.261 40.629 41.380 40.253 39.127 38.261 37.337 36.788	1.23466 1.10188 1.03560 0.96960 0.90413 0.82737 0.77832 0.71982 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	1.86386 1.79010 1.74594 1.69526 1.63622 1.54962 1.47832 1.36145 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

(1) Y - Function = Dimensionless Compressibility =  $(P_{sat} - P_i) * [P_i * (RV_i - 1)]^{-1}$ 

(2) Retrograde liquid volume at the indicated pressure and reservoir temperature as a percent of the hydrocarbon pore volume at the dew point pressure and reservoir temperature.

(3) Retrograde liquid volume at the indicated pressure and reservoir temperature (Bbls) per volume of gas (MMscf) at the dew point pressure and reservoir temperature.

(4) Gas Expansion Factor = the volume of surface gas at standard conditions (Mscf) produced from one barrel of undersaturated gas at the indicated pressure and reservoir temperature.

Relative Volume = volume at indicated pressure per volume at the saturation pressure.

Psat = Saturation (Retrograde Dew Point) pressure at reservoir temperature.

Pres = Current static reservoir pressure.

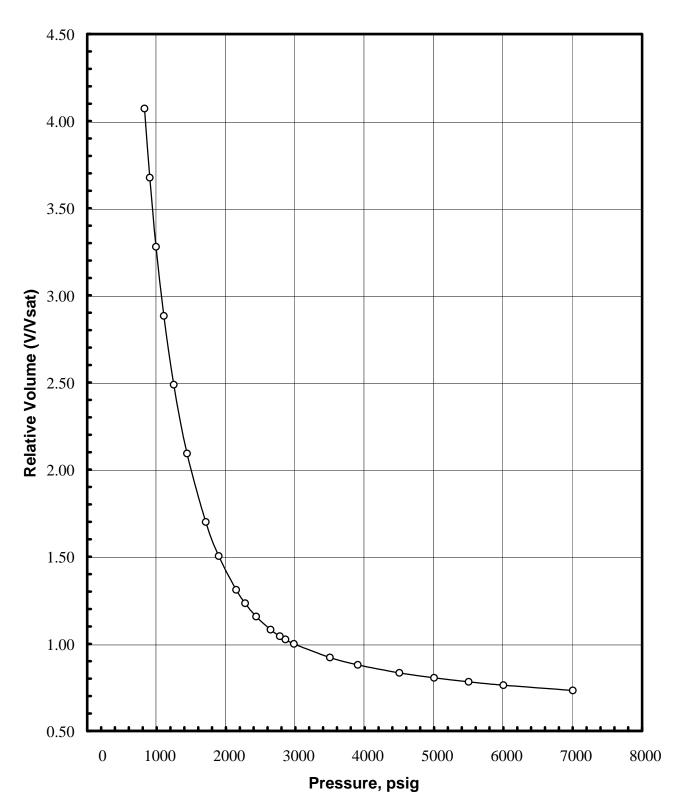


FIGURE 1 Relative Volume vs Pressure

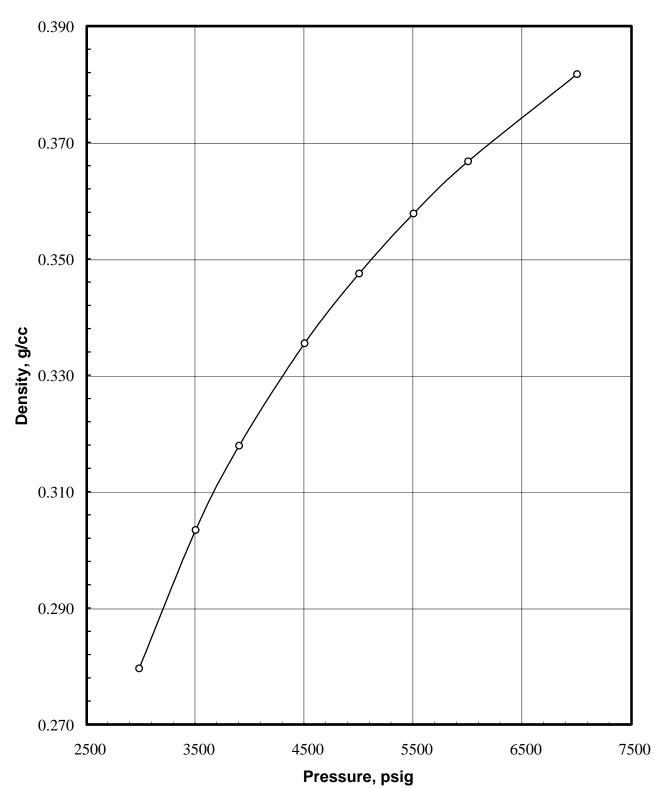


FIGURE 2 Density vs Pressure

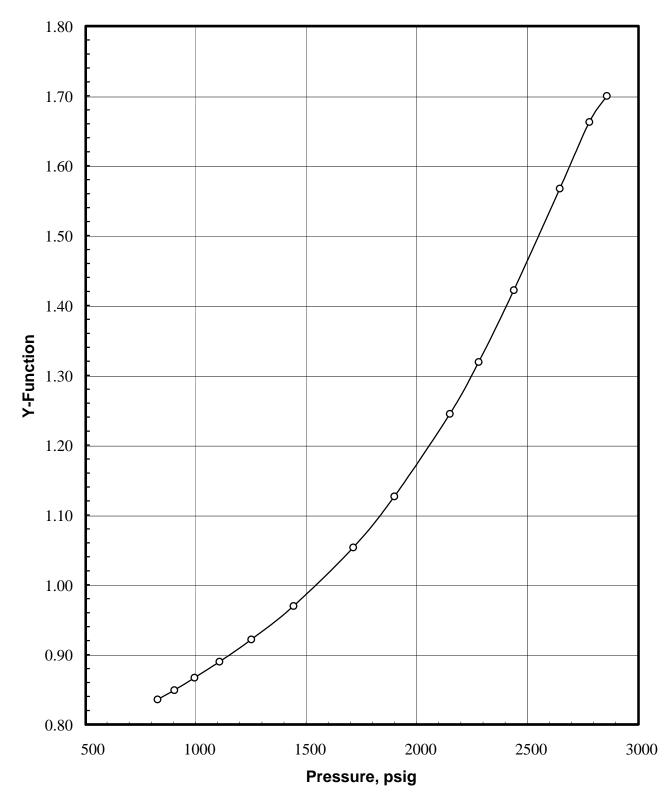


FIGURE 3 Y-Function vs Pressure

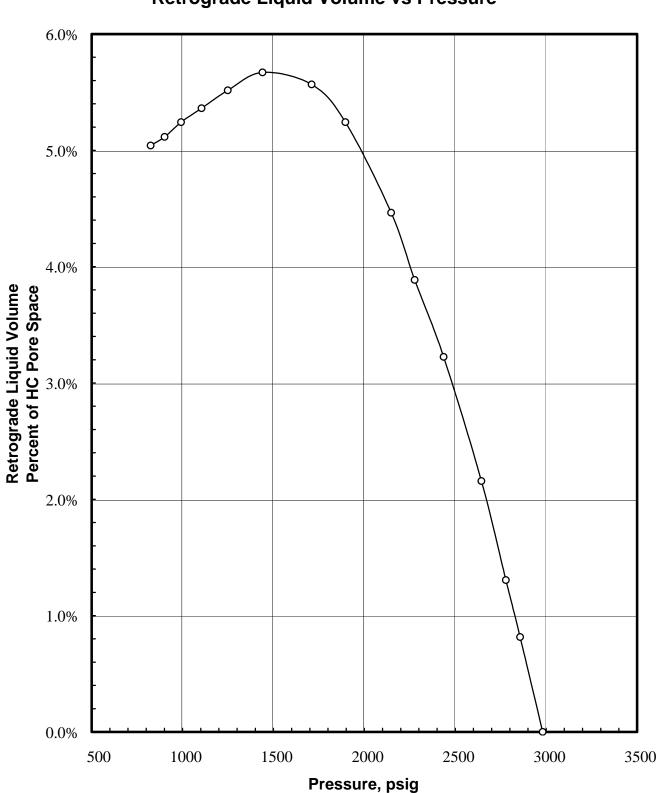


FIGURE 4 Retrograde Liquid Volume vs Pressure

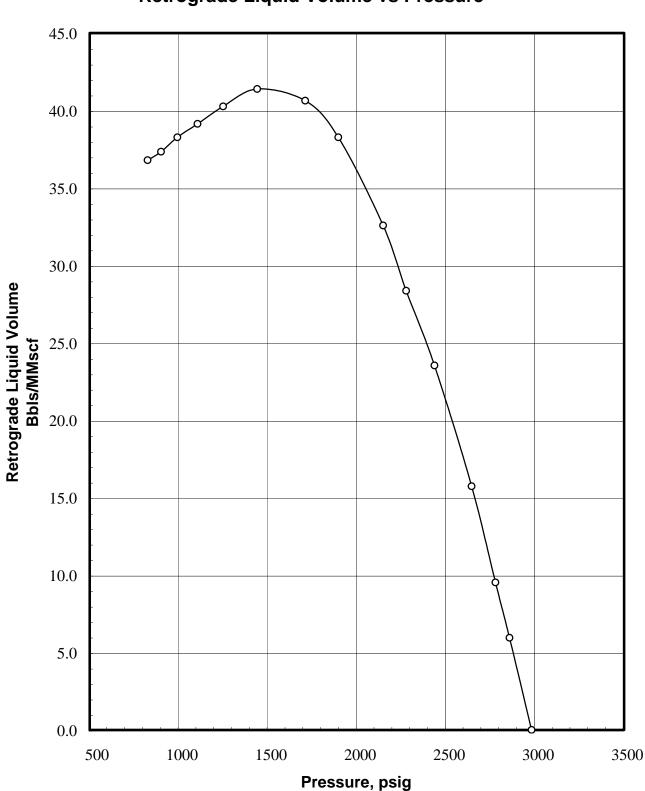


FIGURE 5 Retrograde Liquid Volume vs Pressure

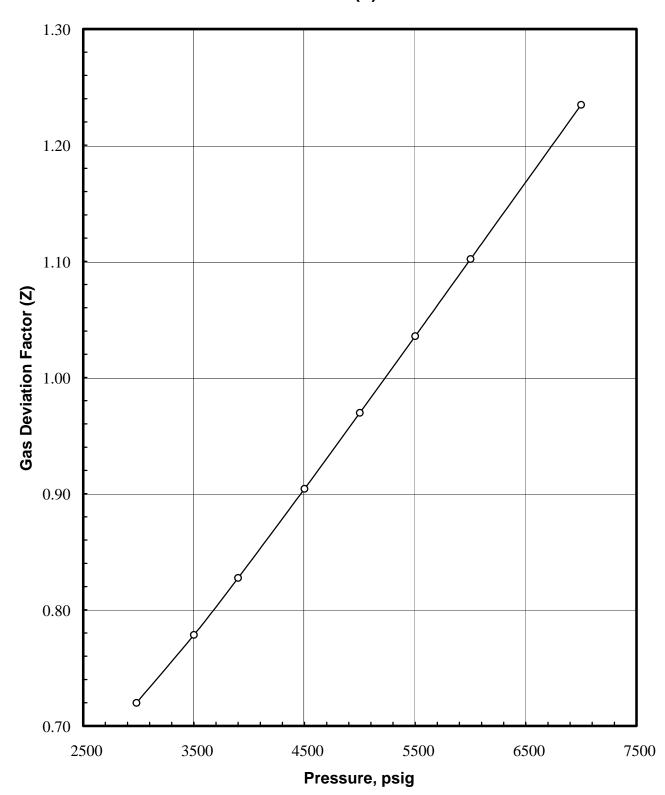


FIGURE 6 Gas Deviation Factor (Z) vs Pressure

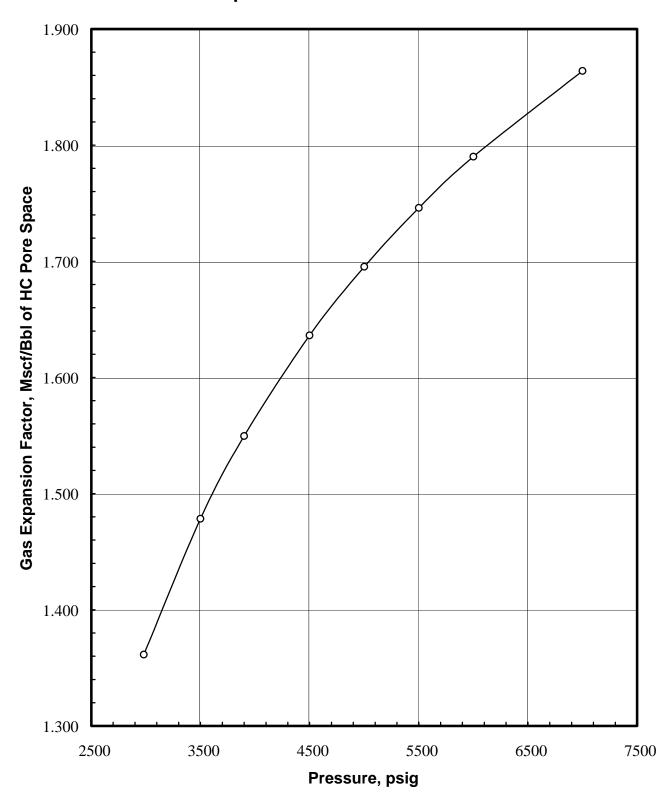


FIGURE 7 Gas Expansion Factor vs Pressure



## TABLE 4

## RESERVOIR GAS DEPLETION STUDY AT 135 °F

Reservoir Pressure, psig	(D.P.) <b>2981</b>	2500	2000	1500	1000	500	0
Wellstream Components	mole %	mole %	mole %	mole %	mole %	mole %	mole %
Hydrogen Sulfide	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nitrogen	0.420	0.422	0.428	0.437	0.438	0.423	0.378
Carbon Dioxide	0.149	0.149	0.150	0.152	0.153	0.152	0.141
Methane	66.896	67.528	68.339	69.106	69.840	68.644	61.473
Ethane	16.864	16.911	16.943	17.061	17.098	17.219	16.181
Propane	7.187	7.031	6.966	6.902	6.839	7.278	8.492
Iso-butane	0.881	0.880	0.803	0.760	0.738	0.824	1.349
N-butane	2.418	2.350	2.208	2.018	1.950	2.133	4.064
Iso-pentane	0.621	0.594	0.545	0.498	0.452	0.507	1.069
N-pentane	0.886	0.845	0.740	0.635	0.586	0.664	1.687
Hexanes	0.783	0.760	0.689	0.590	0.476	0.516	1.117
Heptanes Plus	2.895	2.530	2.190	1.840	1.430	1.640	4.050
TOTALS	100.000	100.000	100.000	100.000	100.000	100.000	100.000

HEPTANES PLUS (C7+) FRACTION CHARACTERISTICS								
Molecular Weight	132.848	127.868	121.231	115.960	113.762	113.112	120.620	
Specific Gravity	0.7703	0.7642	0.7554	0.7479	0.7446	0.7436	1.0228	

CONDENSED RETROGRADE LIQUID VOLUME								
HC Pore Volume %	0.000	2.880	4.704	5.155	4.807	3.798	2.200	
Bbls/MMscf of DP Gas	0.000	21.022	34.334	37.626	35.085	27.721	16.055	

GAS DEVIATION FACTOR								
Equilibrium Gas	0.7198	0.6798	0.6859	0.7461	0.8273	0.8981	N/A	
Two-Phase	0.7198	0.6835	0.6847	0.7114	0.7452	0.7737	N/A	

CUMULATIVE PRODUCED WELLSTREAM VOLUME								
Vol % of Initial DP Gas	0.000	11.595	29.301	48.835	67.280	84.012	98.799	

GPM FROM CVD WELLSTREAM COMPOSITIONS								
Propane plus $(C_{3+})$	5.525	5.182	4.778	4.378	4.036	4.409	7.629	
Butanes plus $(C_{4+})$	3.531	3.232	2.845	2.463	2.139	2.390	5.273	
Pentanes plus (C <sub>5+</sub> )	2.472	2.195	1.879	1.571	1.276	1.440	3.537	

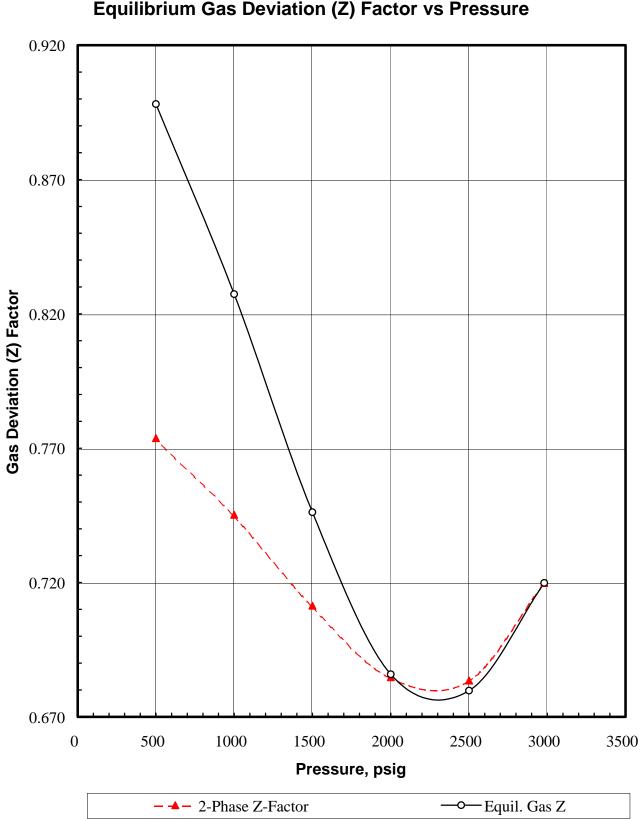


FIGURE 8 Equilibrium Gas Deviation (Z) Factor vs Pressure

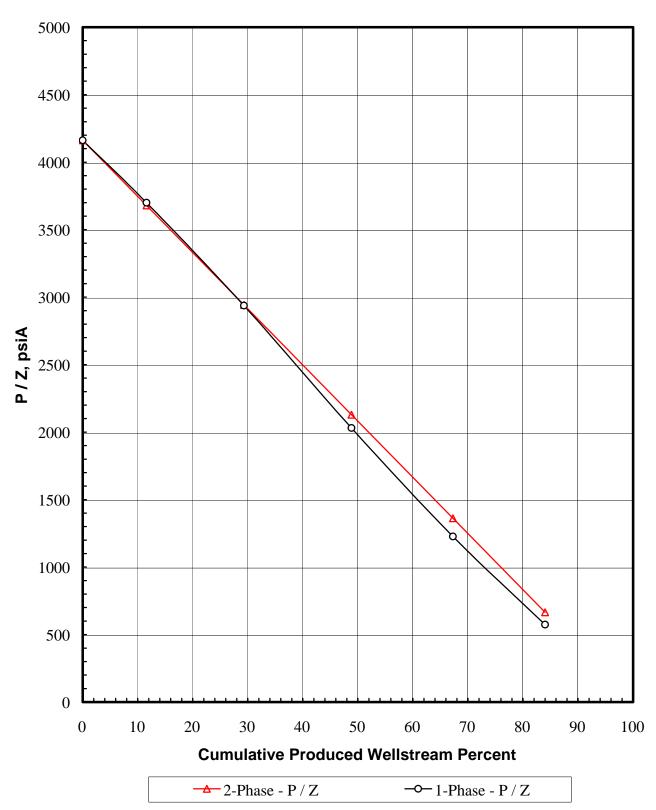


FIGURE 9 P / Z vs Cumulative Produced Wellstream %

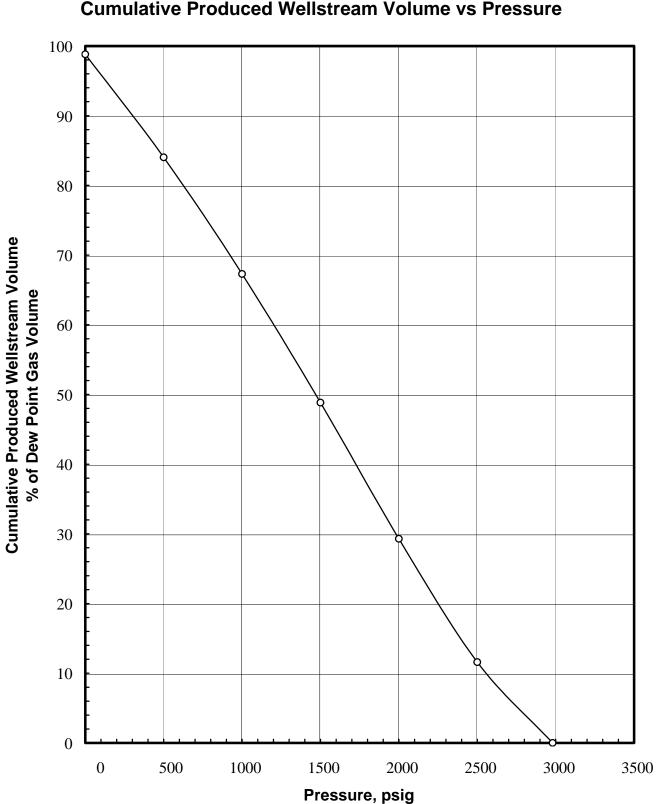


FIGURE 10 Cumulative Produced Wellstream Volume vs Pressure

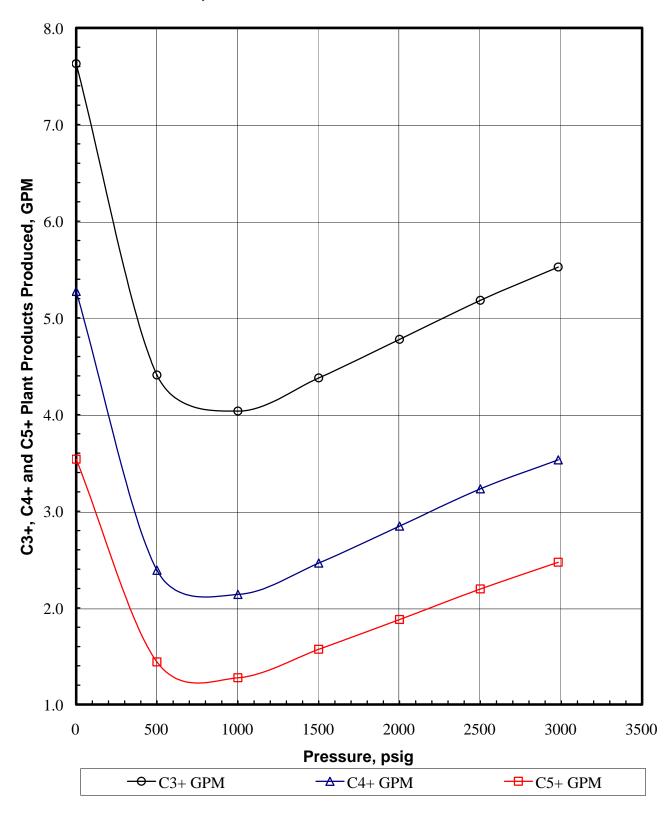


FIGURE 11 C3+, C4+ and C5+ GPM vs Pressure



## TABLE 5

#### CALCULATED CUMULATIVE RECOVERY DURING DEPLETION AT 135 °F

Cumulative Fluid Recovery				Reservoir Pr	essure - psig		
per MMScf of Original	<b>Initial Gas</b>	( <b>D.P.</b> )					
Dew Point Gas	in Place	2981	2500	2000	1500	1000	500
Well Stream (Mcf)	1000.00	0.00	115.95	293.01	488.35	672.80	840.12
* Normal Temperature Separation							
Stock Tank Liquid (Bbls)	54.40	0.00	5.40	12.14	17.55	22.06	26.66
Primary Separator Gas (Mcf)	928.15	0.00	108.47	275.71	462.63	640.68	801.02
Second Stage Gas (Mcf)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stock Tank Gas (Mcf)	23.10	0.00	2.52	5.96	9.18	11.31	13.79
Cumulative Total GOR (Scf/STB)	17487	0	20539	23210	26890	29549	30563
Instantaneous Total GOR (Scf/STB)	17487	0	20539	25353	35145	39873	35435
Total Gallons of Ethane Plus							
(C2+) Plant Products Produced in:							
Well Stream	10071.57	0.00	1129.56	2784.32	4538.13	6132.87	7647.35
Primary Separator Gas	7189.11	0.00	834.71	2114.80	3556.83	4911.19	6165.94
Second Stage Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stock Tank Gas	599.38	0.00	64.89	153.61	237.75	292.75	357.63

\* Recovery Basis: 1st Stage Separation at 183 psig and 49 °F 2nd Stage Separation: Not Present Stock Tank Conditions at 14.85 psig and 70 °F Standard Conditions at 14.85 psig and 60 °F



# TABLE 6

## RETROGRADE CONDENSATION DURING GAS DEPLETION AT 135 °F

Pressure	Condensed Retrograde Liquid Volume					
psig	(1)	(2)				
2981	0.000	0.00				
2500	2.880	21.02				
2000	4.704	34.33				
1500	5.155	37.63				
1000	4.807	35.08				
500	3.798	27.72				
0	2.200	16.06				

(1) Retrograde liquid volume condensed at the indicated pressure and reservoir temperature as a percent of the hydrocarbon pore volume at the dew point pressure and reservoir temperature.

(2) Retrograde liquid volume (Bbls) condensed at the indicated pressure and reservoir temperature per volume of gas (MMscf) at the dew point pressure and reservoir temperature.

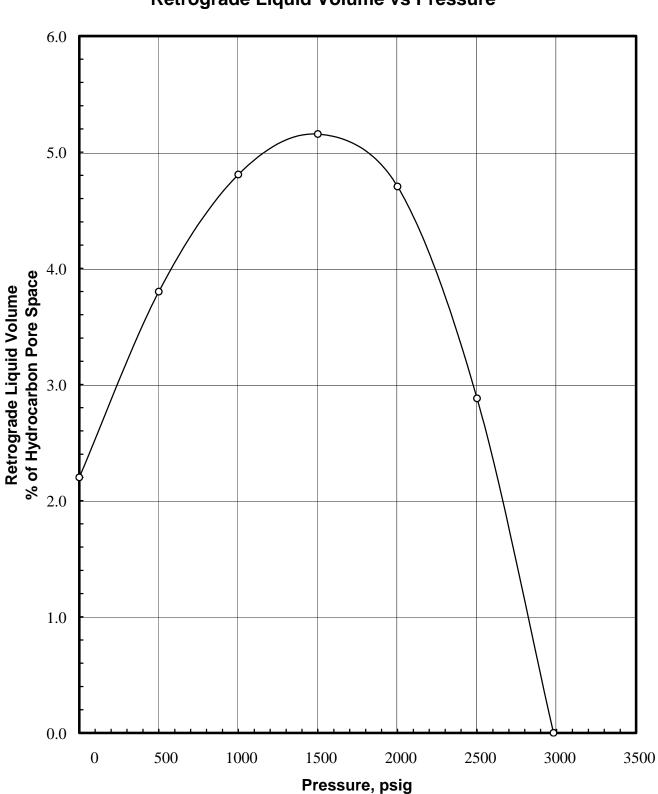


FIGURE 12 Retrograde Liquid Volume vs Pressure

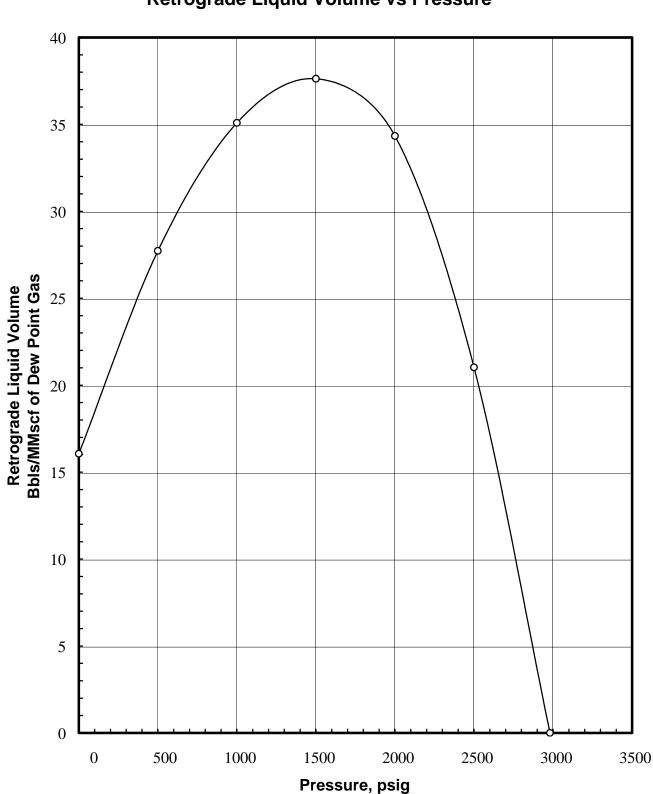


FIGURE 13 Retrograde Liquid Volume vs Pressure

# APPENDIX



Sodium (Na)

Calcium (Ca) Magnesium (Mg)

Barium (Ba)

Iron (Fe)

Potassium (K)

Chloride (Cl)

Sulfate (SO4)

Carbonate (CO3)

Hydroxide (OH)

Sulfide (H2S)

**Total Solids** 

Bicarbonate(HCO3)

Total Alkalinity (CaCO3)

Total Hardness (CaCO3)

#### FESCO, Ltd. 1100 FESCO Ave. - Alice, TX 78332

For: AB Resources, LLC 6802 W. Snowville Road, Suite E Brecksville, Ohio 44141

Sample:	Cavenney No. 1-H
Type:	Separator Water
Depth (Ft):	N/A

# ) Ave. - Alice, TX 78332

County: Marshall, West Virginia

Date:	12/16/2009
Time:	12:30

#### **REPORT OF WATER ANALYSIS**

meq/L

1240.90

822.65

170.95

0.99

8.30

----

0.00

0.00

2.33

0.00

2820.87

mg/L

28528.20 16485.90

2078.80

67.97

324.35

22.51

0.00

0.00

0.00

0.00

117

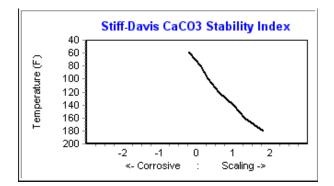
147650

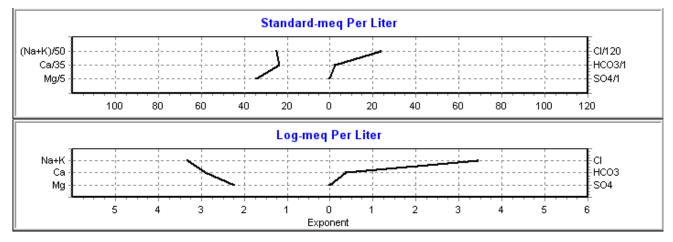
49762

142.00

100000.00

рН	6.05
Specific Gravity @ 60/60 °F	1.115
Resistivity (Ohm-meters @ 77.0 °F)	0.057





Certified: FESCO, Ltd. - Alice, Texas

David Dannhaus 361-661-7015

#### FESCO, Ltd. 1100 FESCO Avenue - Alice, Texas 78332

For: AB Resources, LLC 6802 W. Snowville Road, Suite E Brecksville, Ohio 44141

Sample: Cavenney No. 1-H CVD Residual Oil Sampled @ 0 psig & 70° F

Date Sampled: 12/16/2009

Job Number: 95943.005

#### CHROMATOGRAPH EXTENDED ANALYSIS - SUMMATION REPORT

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.000	0.000	0.000
Carbon Dioxide	0.000	0.000	0.000
Methane	0.001	0.000	0.000
Ethane	0.005	0.003	0.001
Propane	0.183	0.098	0.066
Isobutane	0.320	0.203	0.152
n-Butane	2.031	1.243	0.962
2,2 Dimethylpropane	0.014	0.011	0.008
Isopentane	2.545	1.807	1.497
n-Pentane	4.978	3.504	2.928
2,2 Dimethylbutane	0.162	0.131	0.114
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.423	0.336	0.297
2 Methylpentane	2.840	2.288	1.995
3 Methylpentane	1.912	1.515	1.343
n-Hexane	6.280	5.013	4.411
Heptanes Plus	<u>78.307</u>	<u>83.847</u>	<u>86.227</u>
Totals:	100.000	100.000	100.000

#### Characteristics of Heptanes Plus:

Specific Gravity	0.7762	(Water=1)
°API Gravity	50.80	@ 60°F
Molecular Weight	135.1	
Vapor Volume	18.24	CF/Gal
Weight	6.47	Lbs/Gal

#### Characteristics of Total Sample:

•		
Specific Gravity	0.7548	(Water=1)
°API Gravity	55.97	@ 60°F
Molecular Weight	122.7	
Vapor Volume	19.53	CF/Gal
Weight	6.29	Lbs/Gal

Base Conditions: 14.850 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.000	0.000	0.000
Carbon Dioxide	0.000	0.000	0.000
Methane	0.001	0.000	0.000
Ethane	0.005	0.003	0.001
Propane	0.183	0.098	0.066
Isobutane	0.320	0.203	0.152
n-Butane	2.031	1.243	0.962
2,2 Dimethylpropane	0.014	0.011	0.008
Isopentane	2.545	1.807	1.497
n-Pentane	4.978	3.504	2.928
2,2 Dimethylbutane	0.162	0.131	0.114
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.423	0.336	0.297
2 Methylpentane	2.840	2.288	1.995
3 Methylpentane	1.912	1.515	1.343
n-Hexane	6.280	5.013	4.411
Methylcyclopentane	0.608	0.418	0.417
Benzene	1.058	0.575	0.674
Cyclohexane	3.149	2.081	2.160
2-Methylhexane	2.650	2.392	2.165
3-Methylhexane	0.389	0.347	0.318
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C-7's	1.504	1.270	1.216
n-Heptane	5.787	5.183	4.727
Methylcyclohexane	3.094	2.415	2.476
Toluene	0.622	0.404	0.467
Other C-8's	9.545	8.679	8.575
n-Octane	4.345	4.321	4.045
E-Benzene	0.618	0.463	0.535
M & P Xylenes	1.299	0.978	1.124
O-Xylene	0.258	0.191	0.224
Other C-9's	6.745	6.851	6.941
n-Nonane	2.928	3.199	3.061
Other C-10's	6.688	7.464	7.701
n-decane	1.900	2.264	2.203
Undecanes(11)	6.603	7.561	7.912
Dodecanes(12)	4.925	6.092	6.464
Tridecanes(13)	4.063	5.389	5.796
Tetradecanes(14)	3.012	4.279	4.665
Pentadecanes(15)	2.191	3.334	3.679
Hexadecanes(16)	1.445	2.350	2.615
Heptadecanes(17)	1.042	1.792	2.013
Octadecanes(18)	0.709	1.283	1.450
Nonadecanes(19)	0.476	0.898	1.021
Eicosanes(20)	0.280	0.550	0.629
Heneicosanes(21)	0.163	0.336	0.386
Docosanes(22)	0.079	0.170	0.196
Tricosanes(23)	0.035	0.078	0.090
Tetracosanes(24)	0.028	0.064	0.074
Pentacosanes(25)	0.023	0.056	0.066
Hexacosanes(26)	0.017	0.042	0.049
Heptacosanes(27)	0.009	0.023	0.028
Octacosanes(28)	0.007	0.020	0.023
Nonacosanes(29)	0.004	0.012	0.015
Triacontanes(30)	0.002	0.005	0.006
Hentriacontanes Plus(31+)	<u>0.005</u>	<u>0.017</u>	<u>0.021</u>
Total	100.000	100.000	100.000

9

13

### **G379 EMISSIONS DATA**

### G379 EMISSIONS DATA @ STANDARD RATINGS

ENGINE	RATING (hp/rpm)	NOx	CO (gram/hp-hr)	нс	%02	A/FR vol/vol	Tstack deg F	EXH FLOW cfm	AIR FLOW kg/hr	BSFC Btu/hp-hr
NA HCR	330/1200									
	stand/catalyst	8.7	7.9	3.1	0.5	9.5	1086	1398	901	7814
NA HCR	275/1000									
	stand	18.3	0.8	1.2	2.0	10.5	1007	1172	801	7494
	catalyst	11.2	<b>12</b> .1	1.7	0.5	9.5	1012	1101	745	7704
NA LCR	300/1200									
	stand/catalyst	11.4	11.5	0.8	0.5	9.5	1174	1491	909	8843
NA LCR	245/1000									
	stand	15.1	0.8	0.8	2.0	10.5	1095	1238	798	8311
	catalyst	11.3	11.8	0.8	0.5	9.5	1136	1200	749	8622
TA LCR.	415/1200									
	stand	20.9	0.8	0.8	2.0	10.5	1037	2270	1520	7600
	catalyst	9.8	10.7	0.8	0.5	9.5	1097	2225	1424	7867
TA LCR	370/1000									
	stand	19.7	0.9	0.9	2.0	10.5	1010	1912	1304	7514
	catalyst	10.0	9.7	0.9	0.5	9.5	1047	1794	1186	7552
TA LCR	465/1200									
	stand	18.9	0.8	1.0	2.0	_	1128	2140	1349	8061
TA HCR	465/1200									
	stand	15.4	1.1	0.9	2.0	10.5	1070	2689	1762	7365
	catalyst	10.7	11.1	1.9	0.5	9.5	1102	2533	1616	7464
TA LCR	405/1000									
	stand	17.6	0.9	1.2	2.0	—	1094	1799	1159	<b>7952</b>
TA HCR	405/1000									
	stand	15.1	0.8	1.1	2.0	10.5	1014	2234	1519	7307
	catalyst	9.2	9.3	1.5	0.5	9.5	1046	2119	1402	7453

119



#### **Emission Guarantee**

#### **ENGINE DATA**

	Engine Model	Caterpillar 379TA
1 Anna	Power	415 BHP
	Fuel	PQNG
Contraction of the second seco	Exhaust Flow Rate	3266 lb/hr
	Exhaust Temperature	1097 F

#### **CATALYST DATA**

	Catalyst Model	2-DC50-8
	Туре	NSCR
	# of Elements	2
	Cell Density	300 cpsi
	Approx. Dimensions	See Attached
	Approx. Weight	See Attached
	Approx. Pressure Drop	5.3" w.c.
	Connection Size	8"

#### **EMISSION REQUIREMENTS**

Exhaust Component	Engine Output (g/bhp-hr)	Converter Output (g/bhp-hr)
NOx	12	.25
СО	12	.30
VOC	1	.20

The catalyst model selection is based upon the reduction requirements above. Any variance in these requirements may affect the price and model required. Attachment J Public Notice

## Attachment J

## AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that Chevron Appalachia, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit for a natural gas production operation located at 2861 Roberts Ridge Road, Moundsville, WV 26041 in Marshall County, West Virginia. The latitude and longitude coordinates are: 39.87502 and -80.76021. The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: 5.04 tons Nitrogen Oxides, 5.03 tons Carbon Monoxide, 62.38 tons Volatile Organic Compounds, 19.07 tons Particulate Matter, 0.04 tons Sulfur Dioxide, 2.41 tons of Hexane, 0.06 tons of Benzene, 0.08 tons of Toluene, 0.03 tons of Ethylbenzene, 0.08 tons of Xylenes, 0.44 tons of Formaldehyde, and 6,533.82 tons of Carbon Dioxide Equivalencies. Startup of operation is scheduled to begin the 1<sup>st</sup> day of April, 2016. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice. Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the XX<sup>th</sup> day of September, 2015.

By: Chevron Appalachia, LLC Gary Orr Appalachia Area Manager for Chevron Appalachia, LLC 700 Cherrington Parkway, Coraopolis Parkway Coraopolis, PA 15108

# **Attachment K**

# Attachment K G70-A General Permit Electronic Submittal

Chevron Appalachia, LLC has chosen not to submit this G70-A General Permit Application electronically. One (1) original hard copy and two (2) CD-ROMs of this application have been provided to the WVDEP Division of Air Quality.

# **Attachment L**

# Attachment L G70-A General Permit Application Fee

An application fee of \$4,000 is being submitted by Chevron Appalachia, LLC with this G70-A General Permit Application.

# **Attachment M**

# Attachment M G70-A General Permit Siting Criteria Waiver

There are no dwellings within 300 feet of the proposed natural gas production facility.

Attachment N Material Safety Data Sheet

# **Material Safety Data Sheet**



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

## NATURAL GAS - SWEET

#### Company Identification

Appalachian/Michigan Business Unit Chevron North America Exploration and Production Company (a division of Chevron U.S.A. Inc.) 1550 Coraopolis Heights Road Moon Township, PA 15108 United States of America

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887 Health Emergency Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623 Product Information Product Information: (412) 865-3408

#### SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Methane	74-82-8	< 88 %weight
Ethane	74-84-0	< 31 %weight
Propane	74-98-6	< 18 %weight
Butane	106-97-8	< 6 %weight
Carbon dioxide	124-38-9	< 6 %weight
Nitrogen	7727-37-9	< 3 %weight
Benzene	71-43-2	< 2.5 %weight

### SECTION 3 HAZARDS IDENTIFICATION

\*\*\*\*

#### EMERGENCY OVERVIEW

- FLAMMABLE GAS. MAY CAUSE FLASH FIRE
- CONTENTS UNDER PRESSURE
- NO ODORANT ADDED; DETECTION OF LEAK VIA SENSE OF SMELL MAY NOT BE POSSIBLE
- MAY CAUSE DIZZINESS, DROWSINESS AND REDUCED ALERTNESS
- MAY CAUSE CANCER
- CONTAINS MATERIAL THAT MAY CAUSE DAMAGE TO:
- BLOOD/BLOOD FORMING ORGANS

#### IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Material is a gas and cannot usually be swallowed.

**Inhalation:** This material can act as a simple asphyxiant by displacement of air. Symptoms of asphyxiation may include rapid breathing, incoordination, rapid fatigue, excessive salivation, disorientation, headache, nausea, and vomiting. Convulsions, loss of consciousness, coma, and/or death may occur if exposure to high concentrations continues. Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the eye and upper respiratory tract.

#### DELAYED OR OTHER HEALTH EFFECTS:

**Reproduction and Birth Defects:** This material is not expected to cause adverse reproductive effects based on animal data. This material is not expected to cause harm to the unborn child based on animal data.

**Cancer:** Prolonged or repeated exposure to this material may cause cancer. Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Blood/Blood Forming Organs See Section 11 for additional information. Risk depends on duration and level of exposure.

#### SECTION 4 FIRST AID MEASURES

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required because this material is a gas.

**Inhalation:** During an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

#### SECTION 5 FIRE FIGHTING MEASURES

SPECIAL NOTES: In case of fire do not extinguish. Stop flow of fuel and allow fire to burn out.

#### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Flammable gas.

NFPA RATINGS: Health: 1 Flammability: 4 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: -162 °C (-260 °F) (Typical) Autoignition: 482 °C - 632 °C (900 °F - 1170 °F) Flammability (Explosive) Limits (% by volume in air): Lower: 3.8 Upper: 17

**EXTINGUISHING MEDIA:** Allow gas to burn if flow cannot be shut off safely. Apply water from a safe distance to cool container, surrounding equipment and structures. Container areas exposed to direct flame contact should be cooled with large quantities of water (500 gallons water per minute flame impingement exposure) to prevent weakening of container structure.

#### **PROTECTION OF FIRE FIGHTERS:**

**Fire Fighting Instructions:** Do not extinguish. Stop flow of fuel and allow fire to burn out. If flames are accidentally extinguished, explosive reignition may occur. Eliminate ignition sources. Keep people away. Isolate fire area and deny unnecessary entry. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. For unignited vapor cloud, use water spray to knock down and control dispersion of vapors. Use water spray to cool fire-exposed containers and fire-affected zone until fire is out and danger of reignition has passed. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in vicinity of released gas. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. For large releases, warn public of downwind explosion hazard.

**Spill Management:** Stop the source of the release if you can do it without risk. Observe precautions in Exposure Controls/Personal Protection section of the MSDS. All equipment used when handling the product must be grounded. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Do not direct water at spill or source of leak. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Isolate area until gas has dispersed.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### SECTION 7 HANDLING AND STORAGE

**Precautionary Measures:** This material presents a fire hazard. Gas can catch fire and burn with explosive force. Invisible gas spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Gases are heavier than air and may travel along the ground or into drains to possible distant ignition sources that may cause an explosive flashback. Do not breathe gas. Wash thoroughly after handling.

**Unusual Handling Hazards:** This product does not contain an odorant. Detection of leak via sense of smell, therefore, may not be possible.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API)

Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

**General Storage Information:** DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. When working with this material, the minimal oxygen content should be 19.5% by volume under normal atmospheric pressure.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits. Use in a well-ventilated area. Use explosion-proof ventilation equipment.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber, Viton.

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Supplied-Air Respirator, or Air-Purifying Respirator for Organic Vapors.

Wear an approved positive pressure air-supplying respirator unless ventilation or other engineering controls are adequate to maintain a minimal oxygen content of 19.5% by volume under normal atmospheric pressure.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Component	Agency	TWA	STEL	Ceiling	Notation
Benzene	ACGIH	.5 ppm (weight)	2.5 ppm (weight)		Skin A1 Skin
Benzene	CVX	1 ppm (weight)	5 ppm (weight)		
Benzene	OSHA SRS	1 ppm (weight)	5 ppm (weight)		
Benzene	OSHA Z-2	10 ppm (weight)		25 ppm (weight)	
Butane	ACGIH	1000 ppm (weight)			
Carbon dioxide	ACGIH	5000 ppm (weight)	30000 ppm (weight)		
Carbon dioxide	OSHA Z-1	9000 mg/m3			

#### **Occupational Exposure Limits:**

Ethane	ACGIH	1000 ppm (weight)	 	
Methane	ACGIH	1000 ppm (weight)	 	
Nitrogen	ACGIH		 	Simple asphyxiant.
Propane	ACGIH	1000 ppm (weight)	 	
Propane	OSHA Z-1	1800 mg/m3	 	

Consult local authorities for appropriate values.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless Physical State: Gas Odor: Odorless pH: Not Applicable Vapor Pressure: 760 mmHg Vapor Density (Air = 1): No data available Boiling Point: -162°C (-259.6°F) Solubility: Insoluble in water. Freezing Point: No data available Melting Point: -184°C (-299.2°F) Specific Gravity: 0.57 Density: No data available Viscosity: No data available

#### SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: Carbon Dioxide (Elevated temperatures), Carbon Monoxide (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### IMMEDIATE HEALTH EFFECTS

**Eye Irritation:** The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

#### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

#### This product contains benzene.

GENETIC TOXICITY/CANCER: Repeated or prolonged breathing of benzene vapor has been associated with the development of chromosomal damage in experimental animals and various blood diseases in humans ranging from aplastic anemia to leukemia (a form of cancer). All of these diseases can be fatal. In some individuals, benzene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: No birth defects have been shown to occur in pregnant laboratory animals exposed to doses not toxic to the mother. However, some evidence of fetal toxicity such as delayed physical development has been seen at such levels. The available information on the effects of benzene on human pregnancies is inadequate but it has been established that benzene can cross the human placenta.

OCCUPATIONAL: The OSHA Benzene Standard (29 CFR 1910.1028) contains detailed requirements for training, exposure monitoring, respiratory protection and medical surveillance triggered by the exposure level. Refer to the OSHA Standard before using this product.

This product may contain detectable but varying quantities of the naturally occurring radioactive substance radon 222. The amount in the gas itself is not hazardous, but since radon rapidly decays (t1/2 = 3.82days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipment may contain radioactivity. The radon decay products are solids and therefore may attach to dust particles or form films and sludges in equipment. Inhalation, ingestion or skin contact with radon decay products can lead to the deposit (or presence) of radioactive material in the respiratory tract, bone, blood forming organs, intestinal tract, and kidney, which may lead to certain cancers. The International Agency for Research on Cancer (IARC) has classified radon as a Group 1 carcinogen. Some studies of people occupationally exposed to radiation indicate an increased incidence of chromosomal aberrations; the clinical significance of this increase is unknown. Risks can be minimized by following good industrial and personal hygiene practices noted in the section on storage and handling.

#### SECTION 12 ECOLOGICAL INFORMATION

#### ECOTOXICITY

This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material.

#### ENVIRONMENTAL FATE

**Ready Biodegradability:** This material is expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State

and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: UN1971, NATURAL GAS, COMPRESSED, 2.1 ADDITIONAL INFORMATION - RQ (BENZENE) FOR SINGLE PACKAGES CONTAINING GREATER THAN OR EQUAL TO 10 LBS AND CONCENTRATION OF 200 PPM

IMO/IMDG Shipping Description: UN1971, NATURAL GAS, COMPRESSED, 2.1

ICAO/IATA Shipping Description: UN1971, NATURAL GAS, COMPRESSED, 2.1

#### SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

- Immediate (Acute) Health Effects: 1. 2.
  - Delayed (Chronic) Health Effects:
- 3. Fire Hazard:
- Sudden Release of Pressure Hazard: 4.

06,07

5. Reactivity Hazard:

#### **REGULATORY LISTS SEARCHED:**

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
-	07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Benzene	01-1, 02, 04, 05,
Butane	05, 06, 07
Carbon dioxide	05, 06, 07
Ethane	05, 06, 07
Methane	05, 06, 07
Nitrogen	05, 06, 07
Propane	05, 06, 07

#### CERCLA REPORTABLE QUANTITIES(RQ)/EPCRA 302 THRESHOLD PLANNING QUANTITIES(TPQ):

Component	Component RQ	Component TPQ	Product RQ
Benzene	10 lbs	None	400 lbs

#### **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

YES

YES

YES

YES

NO

#### SECTION 16 OTHER INFORMATION

**NFPA RATINGS:** Health: 1 Flammability: 4 Reactivity: 0

**HMIS RATINGS:** Health: 1\* Flammability: 4 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:** This revision updates the following sections of this Material Safety Data Sheet: 2, 3, 4, 5, 6, 7, 8, 12, 15 **Revision Date:** NOVEMBER 01, 2011

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health
Cancer	Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

### Attachment O G70-A EMISSIONS SUMMARY SHEET

Emission Point ID No. (Must match Emission Units Table-&	Emission Point Type <sup>1</sup>	t Through This Point		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		All Regulated Pollutants - Chemical Name/CAS <sup>3</sup>	Maximum Potential Uncontrolled Emissions <sup>4</sup>		Maximum Potential Controlled Emissions <sup>5</sup>		Emission Form or Phase (At exit	Est. Method Used <sup>6</sup>
Plot Plan)		ID No.	Source	ID No.	Device Type	(Speciate VOCs & HAPS)	lb/hr	ton/yr	lb/hr	ton/yr	conditions, Solid, Liquid or Gas/Vapor)	
CBA-1050	Upward Vertical Stack	NA	NA	CBA- 1050	NSCR	Total VOCs NO <sub>x</sub> CO PM <sub>Filterable</sub> PM <sub>Condensable</sub> Total HAPs Formaldehyde CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	0.28 0.28 0.41 0.05 0.05 0.11 0.10 117.23 <0.01 117.35	1.21 1.21 1.81 0.20 0.21 0.48 0.44 513.46 0.01 513.99	0.28 0.28 0.41 0.05 0.05 0.11 0.10 117.23 <0.01 117.35	1.21 1.21 1.81 0.20 0.21 0.48 0.44 513.46 0.01 513.99	Gas	AP-42, 40CFR98
BAP-0110	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO₂e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0210	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO₂e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0410	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH₄ CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98

Emission Point ID No. (Must match Emission Units Table-&	Emission Point Type <sup>1</sup>	int. Through This Point		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		All Regulated Pollutants - Chemical Name/CAS <sup>3</sup>	Maximum Potential Uncontrolled Emissions <sup>4</sup>		Maximum Potential Controlled Emissions <sup>5</sup>		Phase (At exit	Est. Method Used <sup>6</sup>
Plot Plan)		ID No.	Source	ID No.	Device Type	(Speciate VOCs & HAPS)	lb/hr	ton/yr	lb/hr	ton/yr	conditions, Solid, Liquid or Gas/Vapor)	
BAP-0510	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 <0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0610	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM₁₀ Total HAPs Hexane CO₂ CH₄ CO₂e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0810	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0910	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98

Emission Point ID No. (Must match Emission Units Table-& Plot Plon)	Emission Point Type <sup>1</sup>	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		All Regulated Pollutants - Chemical Name/CAS <sup>3</sup>	Maximum Potential Uncontrolled Emissions <sup>4</sup>		Maximum Potential Controlled Emissions <sup>5</sup>		Emission Form or Phase (At exit conditions,	Est. Method Used <sup>6</sup>
Plot Plan)		ID No.	Source	ID No.	Device Type	(Speciate VOCs & HAPS)	lb/hr	ton/yr	lb/hr	ton/yr	Solid, Liquid or Gas/Vapor)	
BAP-1010	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
BAP-0012	Upward Vertical Stack	NA	NA	NA	NA	Total VOCs NO <sub>x</sub> CO PM <sub>10</sub> Total HAPs Hexane CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	<0.01 0.10 0.08 <0.01 <0.01 <0.01 146.22 <0.01 146.37	0.02 0.43 0.36 0.03 0.01 <0.01 640.45 0.01 641.11	Gas	AP-42, 40CFR98
ZZZ-0011	Upward Vertical Stack	ABJ- 0011(A-E), ABJ-0014	Produced Water Tanks	CBA- 0050	VRU	Total VOCs Total HAPs Hexane Benzene Toluene Ethylbenzene Xylenes CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	267.98 10.78 10.075 0.100 0.261 0.104 0.253 0.68 62.48 1,562.79	1,173.76 47.23 44.13 0.439 1.148 0.457 1.109 2.98 273.68 6,845.04	13.40 0.539 0.50 <0.01 0.013 <0.01 0.012 0.03 3.12 78.14	58.69 2.362 2.201 0.022 0.057 0.023 0.055 0.15 13.68 342.25	Gas	ProMax, 40CFR98
ZZZ-0011	Upward Vertical Stack	ZZZ-0011, ABJ-0014	Loading Rack, Blowdowns	NA	NA	Total VOCs Total HAPs CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	768.75 35.51 0.07 0.45 11.24	0.29 0.01 0.31 2.35 59.07	768.75 35.51 0.07 0.45 11.24	0.29 0.01 0.31 2.35 59.07	Gas	AP-42, 40CFR98

The EMISSION SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSIONS SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

<sup>1</sup> Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

<sup>2</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs,

H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, all applicable Greenhouse Gases (including CO<sub>2</sub> and methane), etc. DO NOT LIST H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases

<sup>3</sup> Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>4</sup> Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>5</sup> Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; M = modeling; O = other (specify).

### **G70-A FUGITIVE EMISSIONS SUMMARY SHEET**

FUGITIVE EMISSIONS SUMMARY	All Regulated Pollutants <sup>-</sup> Chemical Name/CAS <sup>1</sup>	Maximum Potent Emissi		Maximum P Controlled Em	Est. Method	
	Name/O/(O	lb/hr	ton/yr	lb/hr	ton/yr	Used <sup>4</sup>
Haul Road/Road Dust Emissions Paved Haul Roads	NA					
Unpaved Haul Roads	PM PM-10 PM-2.5	4.20 1.07 0.11	18.57 4.73 0.47	4.20 1.07 0.11	18.57 4.73 0.47	AP-42
Equipment Leaks	Total VOC Total HAPs Hexane Toluene Ethylbenzene Xylene CO <sub>2</sub> CH <sub>4</sub> CO <sub>2</sub> e	0.23 0.01 0.02 <0.01 <0.01 <0.01 0.002 0.30 7.55	1.02 0.06 0.07 0.01 0.01 0.02 0.01 1.32 33.07	0.23 0.01 0.02 <0.01 <0.01 <0.01 0.002 0.30 7.55	1.02 0.06 0.07 0.01 0.01 0.02 0.01 1.32 33.07	40CFR98
Other	NA	NA	NA	NA	NA	NA

<sup>1</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs, H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, all applicable Greenhouse Gases (including CO<sub>2</sub> and methane), etc. DO NOT LIST H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases.
 <sup>2</sup> Give rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
 <sup>3</sup> Give rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).
 <sup>4</sup> Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; M = modeling; O = other (specify).