

*West Virginia Department of Environmental Protection  
Division of Air Quality*

*Earl Ray Tomblin  
Governor*

*Randy C. Huffman  
Cabinet Secretary*

**Class II General Permit  
G70-A Registration to Construct**



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation, Administrative Update and  
Operation of Oil and Natural Gas Production Facilities  
Located at the Well Site

*The permittee identified at the facility listed below is authorized to  
construct the stationary sources of air pollutants identified herein in accordance  
with all terms and conditions of General Permit G70-A.*

**G70-A167**

Issued to:

**Chevron Appalachia, LLC**

**Francis Pad**

**051-00217**

A blue ink signature of William F. Durham, written in a cursive style, positioned above a horizontal line.

*William F. Durham*

*Director*

*Issued: August 5, 2015*

Facility Location: Moundsville, Marshall County, West Virginia  
Mailing Address: 1550 Coraopolis Heights Road, 2<sup>nd</sup> Floor  
Moon Township, PA 15108  
Facility Description: Class II Oil and Natural Gas Production Facility  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 526.14 km Easting • 4,413.24 km Northing • Zone 17  
Longitude Coordinates: -80.69435  
Latitude Coordinates: 39.86879  
Directions to Facility: From Charleston, WV get on I-64/I-77 ramp to Beckley/Charleston/Toll Rd. Keep right at the fork, follow signs for Interstate 64 W/Interstate 77 N/Charleston. Keep left at the fork and merge onto I-64W/I-77 N. Continue to I-77 N toward Parkersburg for 76.9 miles. Take exit 179 for W. Virginia 2 N/W. Virginia 68 S/ Emerson Ave. toward Vienna. Turn right onto WV-2 N/Emerson Ave (signs for St. Marys/Airport). Go for 15.7 miles then turn left onto WV-807 N and continue on OH-807 N. Turn left onto OH-7 N/Ohio River Scenic Byway. Then in 51.7 miles take the Ohio 872 exit toward State Route 2/Moundsville W VA. Turn right onto OH-872 E, continue onto State Route 2 Spur, continue onto 12<sup>th</sup> Street, continue onto Fork Ridge Road and in 2.4 miles you will reach the facility site.  
Registration Type: Construction  
Description of Change: Chevron Appalachia, LLC is applying for a G70-A permit to authorize the construction of the Francis Pad, A Natural Gas Production Facility.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? No

Subject to 40CFR63, Subpart ZZZZ? Yes, the CAT G379TA is an existing SI ICE.

Subject to 40CFR63, Subpart HH? No

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is not subject to 45CSR30.*

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**Permit Section Applicability for the Registrant**

*All registered facilities under General Permit G70-A are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-A.*

The following additional sections of General Permit G70-A apply to the registrant:

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

\* The registrant may also be subject to the applicable control device requirements of Section 12 if the registrant is subject to the NSPS, Subpart OOOO control requirements or may be subject to the control device requirements of Section 14.

\*\* The registrant may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

\*\*\* The registrant may also be subject to the applicable control device requirements of Section 14.

**1.0 Emission Units Table**

Emission Unit ID	Emission Point ID	Emission Unit Description (Mfg., Model, Serial No., Engine type 2SLB, 4SLB, 4SRB, etc.)	Control Device ID	Year Installed / Modified	Max. Design Capacity	G70-A Applicable Sections
BAP-0210	BAP-0210	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0310	BAP-0310	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0410	BAP-0410	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0610	BAP-0610	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0710	BAP-0710	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0810	BAP-0810	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0910	BAP-0910	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-1010	BAP-1010	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-1110	BAP-1110	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-1210	BAP-1210	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-1310	BAP-1310	Line Heater	NA	2015	1.25 MMBtu/hr	7
BAP-0012	BAP-0012	Line Heater	NA	2015	1.25 MMBtu/hr	7
CBA-0050	CBA-0050	Flash Gas Compressor	CBA-0055	2015	415 bhp	10, 15
ABJ-0011A	ABJ-0011A	Produced Water Tank	CBA-0055	2015	400 bbl	6, 12
ABJ-0011B	ABJ-0011B	Produced Water Tank	CBA-0055	2015	400 bbl	6, 12
ABJ-0011C	ABJ-0011C	Produced Water Tank	CBA-0055	2015	400 bbl	6, 12
ABJ-0011D	ABJ-0011D	Produced Water Tank	CBA-0055	2015	400 bbl	6, 12
ABJ-0011E	ABJ-0011E	Produced Water Tank	CBA-0055	2015	400 bbl	6,12

ABJ-0014	ABJ-0014	Test Tank	CBA-0055	2015	400 bbl	6, 12
CBA-0055	CBA-0055	Vapor Recovery Unit	NA	2015	NA	12
ZZZ-0011A	ZZZ-0011	Tank Unloading Events	NA	2015	107,000 gal/day	11
ZZZ-0011B	ZZZ-0011	Tank Unloading Events	NA	2015	107,000 gal/day	11
ZZZ-0011C	ZZZ-0011	Tank Unloading Events	NA	2015	107,000 gal/day	11
Control Devices (If applicable)						
Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)	Year Installed / Modified	Max. Design Capacity	G-70A Applicable Sections	
CBA-055	95%	Hy-Bon Electric VRU Leroi HB-HG 12307HIE-100-18DV	2015	NA	12	
Emission Reduction Systems					Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?					Yes	12
Was a low pressure tower(s) used to determine emission limits?					No	NA

## 2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-051-01710	047-051-01715	047-051-01720
047-051-01711	047-051-01716	
047-051-01712	047-051-01717	
047-051-01713	047-051-01718	
047-051-01714	047-051-01719	

**3.0 Emission Limitations**

Emission Unit ID	Emission Point ID	Emission Unit Description	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Yearly Emissions (TPY)
BAP (0210-0410, 0610-1310)	BAP (0210-0410, 0610-1310)	10 Line Heaters (Pietro Fiorentini 6362001-1440-J100)  (1.25 mmBtu/hr Aggregate)	NOx	1.10	4.73
			CO	0.88	3.96
			VOC	0.06	0.22
			HAPs	0.03	0.09
			PM/PM10	0.08	0.33
			CO2e	1610.07	7052.21
BAP-0012	BAP-0012	Line Heater (Pietro Fiorentini 6492001-J120)  (1.25 mmBtu/hr Aggregate)	NOx	0.1	0.43
			CO	0.08	0.36
			VOC	<0.01	0.02
			HAPs	<0.01	0.01
			PM/PM10	<0.01	0.03
			CO2e	146.37	641.11
CBA-0050	CBA-0050	Flash Gas Compressor (Caterpillar G379TA)	NOx	0.23	1.00
			CO	0.27	1.20
			VOC	0.18	0.80
			HAPs	0.07	0.31
			PM	0.03	0.13
			CO2e	74.65	326.96
ABJ-0011 (A-E) & ABJ-0014	ABJ-0011 (A-E) & ABJ-0014	Produced Water Tanks & Test Tank	VOC	10.13	44.35
			HAPs	0.41	1.78
			CO2	0.03	0.11
			CH4	2.31	10.11
CBA-0055	CBA-0055	Electric VRU	VOC	10.13	44.35
			Total HAPs	0.41	1.78
			Hexane	0.38	1.66
			Benzene	<0.01	0.02
			Toluene	0.01	0.04
			Ethylbenze	<0.01	0.02
			Xylene	0.01	0.03
			CO2	0.03	0.11
			CH4	2.31	10.11
			CO2e	57.75	252.96
ZZZ-0011 (A-C)	ZZZ-0111	Tank Unloading Events	VOC	0.25	0.83
			HAPs	<0.01	<0.01
			CO2	0.07	0.31
			CH4	0.45	1.96
			CO2e	11.24	49.23

#### 4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission Unit ID	Emission Point ID	Emission Unit Description	Annual Throughput Limit
ZZZ-0011A	ZZZ-0111	Tank Unloading Events	39,055,000 gal/year
ZZZ-0011B	ZZZ-0111	Tank Unloading Events	39,055,000 gal/year
ZZZ-0011C	ZZZ-0111	Tank Unloading Events	39,055,000 gal/year

#### 5.0 Reciprocating Internal Combustion Engines (R.I.C.E.) Information

Emission Unit ID	Engine Manufacturing Date	Subject to 40CFR60, Subpart JJJJ?	Subject to 40CFR63, Subpart ZZZZ?	Subject to Sections 10.1.4 / 10.2.1 (Catalytic Reduction Device)
CBA-0050	November 20, 1981	No	Yes	NSCR