west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

March 03, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-10701748, issued to PENNECO OIL COMPANY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: HUDKINS/POSTON UNIT #1
Farm Name: HUDKINS, GEORGE E.
API Well Number: 47- 10701748
Permit Type: Vertical Well
Date Issued: 03/03/2015

Promoting a healthy environment.

10701748

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.

3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.

4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.

6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours

7. Well work activities shall not constitute a hazard to the safety of persons.

8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

10701748

west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

September 4, 2014

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-107-01748

COMPANY: Penneco Oil Company

FARM: Hudkins/Poston Unit #1

COUNTY Wood DISTRICT: Harris QUAD: Pond Creek

The application for the above company is **approved to drill to Trenton/Black River.**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes

2. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; none

3. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or **unit boundary** and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines

Cindy Raines
Executive Assistant

Ck# 17911
$800.00
10701748

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Penneco Oil Company

494460033	Wood (107)	Harris (2)	Pond Creek 7.5' (553)
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Hudkins/Poston Unit #1 3) Elevation: 843'

4) Well Type: (a) Oil_____ or Gas X

(b) If Gas: Production X / Underground Storage _____

Deep X / Shallow _____

5) Proposed Target Formation(s): Trenton/Black River Proposed Target Depth: 9,600'
6) Proposed Total Depth: 9,650 Feet Formation at Proposed Total Depth: Trenton/Black River
7) Approximate fresh water strata depths: 129', 244', 281
8) Approximate salt water depths: 611', 764', 982', 1162', 1321', 1504', 1598'

9) Approximate coal seam depths: None

10) Approximate void depths,(coal, Karst, other): None listed on offset data

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Drill and fracture stimulate new deep, conventional gas well.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20"	MC-50	81.3 #	30'	30'	CTS
Fresh Water	16"	H-40	65.0 #	350'	350'	CTS
Coal	11 3/4"	H-40	42.0 #	1650'	1650'	CTS
Intermediate	8 5/8"	J-55	32.0 #	4630'	4630'	CTS
Production	4 1/2"	MAV65	10.5 #	9600'	9600'	310 sacks
Tubing						
Liners						

Packers: Kind:
Sizes:
Depths Set

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

3/31/2014

10701748

WW-2A
(Rev. 6-07)

1). Date: _____

2.) Operator's Well Number Hudkins/Poston Unit #1

3.) API Well No.: 47- _____ - _____
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name George E. Hudkins W
Address 1 Willoughby Drive
Parkersburg, WV 26101
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name
Address
(b) Coal Owner(s) with Declaration
Name George E. Hudkins W
Address 1 Willoughby Drive
Parkersburg, WV 26101
Name
Address
(c) Coal Lessee with Declaration
Name
Address

6) Inspector Jamie Stevens
Address 105 Kentuck Road
Kenna, WV 25248
Telephone 304-206-7775

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

_____ Personal Service (Affidavit attached)
x Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Official Seal
Notary Public, State Of West Virginia
Lois A Brown
1552 Little Sandy Road
Bruceton Mills WV 26525
My commission expires August 22, 2017

Well Operator Penneco Oil Company
By: Stephen K. Schuman
Its: Designated Agent
Address 6608 Route 22
Delmont, PA 15626
Telephone 724-468-8232

Subscribed and sworn before me this 18th day of March, 2014

Lois A. Brown Notary Public

My Commission Expires August 22, 2017

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

10701748

RECEIVED MAR 1 7 2014

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Wood

Operator Penneco Oil Company

Operator well number Hudkins/Poston Unit #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

George E Hudkins Date 3/14/14
Signature

George E Hudkins
Print Name

FOR EXECUTION BY A CORPORATION, ETC.

Company Name
By
Its

Received
MAR 3 1 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Date

Signature Date

10701748

WW-2A Coal Waiver

RECEIVED MAR 1 7 2014

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Wood
Operator Penneco Oil Company Operator's Well Number Hudkins/Poston Unit #1

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator ✓ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

George E Hudkins Date 3/14/14
Signature

FOR EXECUTION BY A CORPORATION, ETC.

Company Name _____
By _____
Its _____ Date

Signature Date

Received

MAR 3 1 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

10701748

WW-2A1
(Rev. 1/11)

Operator's Well Number Hudkins/Poston Unit #1

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
George E. Hudkins	Penneco Oil Company	1/8	1096/77
Sandra Lee Poston	Penneco Oil Company	1/8	1095/441

3/11/2014

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Received

Well Operator: Penneco Oil Company
By: Its: Stephen K. Schuman, Designated Agent

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

10201748

WW-2B1
(5-12)

Well No. Hudkins/Poston Unit #1

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name: Reliance Labs
Sampling Contractor: Smith Land Surveying, Inc. - Environmental Division

Well Operator: Penneco Oil Company
Address: 6608 Route 22
Delmont, PA 15626
Telephone: 724-468-8230

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

NOTE: There appears to be 9 +/- potable water sources within 1,500', therefore tests will be offered and samples taken as required.

SEE ATTACHED PAGES.

Testing

Jamie 3/11/2014

10701748

SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: *PENNECO GAS COMPANY*
LEASE NAME AND NUMBER: *HUDKINS - POSTON #1 WELL PAD*

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: *1* Spacing _____ Owner/Occupant: *Chuck Kestner*
Address: *3091 Pond creek Rd. Ravenswood, WV 26164* Ph: *(304)-863-8832*
Field Contact Date: *11/06/2014* Located: *Yes* Date Located: *11/06/2014* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *11/06/2014* 2nd *11/13/2014* Certified (3rd) *10/24/14*
Comments: *Tax Map 590, Parcel B2*

Site: *2* Spacing _____ Owner/Occupant: *Chuck Kestner*
Address: *3091 Pond creek Rd. Ravenswood, WV 26164* Ph: *(304)-863-8832*
Field Contact Date: *11/06/2014* Located: *Yes* Date Located: *11/06/2014* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *11/06/2014* 2nd *11/13/2014* Certified (3rd) *10/24/14*
Comments: *Tax Map 590, Parcel B2*

Site: *3* Spacing _____ Owner/Occupant: *Chuck Kestner*
Address: *3091 Pond creek Rd. Ravenswood, WV 26164* Ph: *(304)-863-8832*
Field Contact Date: *11/06/2014* Located: *Yes* Date Located: *11/06/2014* Source: *Pond*
If No, declined by who _____ Letter/Notice Date: 1st *11/06/2014* 2nd *11/13/2014* Certified (3rd) *10/24/14*
Comments: *Tax Map 590, Parcel B1*

Site: *4* Spacing _____ Owner/Occupant: *Bill Townsend*
Address: *3468 Big Pond creek Rd. Ravenswood, WV 26164* Ph: _____
Field Contact Date: *11/06/2014* Located: *Yes* Date Located: *11/06/2014* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *11/06/2014* 2nd *11/13/2014* Certified (3rd) *10/24/14*
Comments: *Tax Map 590, Parcels E and F*

10701748

Site: 5 Spacing _____ Owner/Occupant: Bill Townsend
Address: 3468 Big Pond creek Rd. Ravenswood, WV 26164 Ph: _____
Field Contact Date: 11/06/2014 Located: Yes Date Located: 11/06/2014 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcels E and F

Site: 6 Spacing _____ Owner/Occupant: Jim Townsend
Address: 3468 Big Pond creek Rd. Ravenswood, WV 26164 Ph: _____
Field Contact Date: 11/06/2014 Located: Yes Date Located: 11/06/2014 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcels E and F

Site: 7 Spacing _____ Owner/Occupant: Neva Smith
Address: 2508 Pond creek Rd. Belleville, WV 26133 Ph: _____
Field Contact Date: 11/06/2014 Located: Yes Date Located: 11/06/2014 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel A

Site: 8 Spacing _____ Owner/Occupant: Chris Starcher
Address: 2796 Pond creek Rd. Belleville, WV 26133 Ph: (304)-863-6983
Field Contact Date: 11/13/2014 Located: Yes Date Located: 11/13/2014 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel B2

Site: 9 Spacing _____ Owner/Occupant: James Blatt
Address: 829 S. long run Rd. Belleville, WV 26133 Ph: (304)-588-6020
Field Contact Date: 11/13/2014 Located: Yes Date Located: 11/13/2014 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 540, Parcels C and D1

Site: 10 Spacing _____ Owner/Occupant: Calvin Poston
Address: 308 Capri Pt. Lavonia, GA 30553 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who Calvin Poston Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel C
Letter of Refusal Signed : 11/06/2014

7657 PENNECO Hudkins.Poston.waterfinal. pg 2

10701748

Site: 11 Spacing _____ Owner/Occupant: George Hudkins
Address: 1 Willoughby Dr. Parkersburg, WV 26101 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcels B and B5
No response to certified letter as of: 12/09/2014

Site: 12 Spacing _____ Owner/Occupant: James White
Address: 3570 Williamson Rd. Stow, OH 44224 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel B3
No response to certified letter as of: 12/09/2014

Site: 13 Spacing _____ Owner/Occupant: Jon Breau
Address: 111 Loquat Rd. NE Lake Placid, FL 33852 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel B4
No response to certified letter as of: 12/09/2014

Site: 14 Spacing _____ Owner/Occupant: Ronald Hartshorn
Address: 1908 long run Rd. Belleville, WV 26133 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 590, Parcel D
No response to certified letter as of: 12/09/2014

Site: 15 Spacing _____ Owner/Occupant: ABN AMRO mortgage group inc.
Address: 4242 N harlem Ave. Harwood Hights, IL 60706 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 540, Parcel C1
No response to certified letter as of: 12/09/2014

Site: 16 Spacing _____ Owner/Occupant: Dale Buffington
Address: 38 turn around Rd. Belleville, WV 26133 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 11/06/2014 2nd 11/13/2014 Certified (3rd) 10/24/14
Comments: Tax Map 540, Parcel D
No response to certified letter as of: 12/09/2014

10701748

RECEIVED NOV 10 2014

SLS SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX 462-5656

To Whom It May Concern:

Smith Land Surveying, Inc. of Glenville, WV has been contracted by:

Penneco Oil Company

To do some preliminary work for a proposed oil and gas well permit application.

Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. The operator is testing within 2000 feet of the well, if they are requested to do so by the resident or owner. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your residence falls within the 2000 foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify Smith Land Surveying immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced.

Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:

Smith Land Surveying, Inc.
PO Box 150
Glenville, WV 26351
(304) 462-5634 (voice)
(304) 462-5656 (fax)
E-Mail DMcKee@slssurveys.com

Date: 10/22/14

Left/sent by: Daniel McKee

Well Number: Hudkins/Poston Well #1

Tax Map / Parcel: 590/C

Wood County, WV Harris District

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

W. CALVIN POSTON

Signature: W. Calvin Poston Date: 11-6-14

SANDRA HAS PASSED AWAY. SEE DEATH CERTIFICATE ATTACHED

10701748

SITE-1

10701748

Reliance Laboratories, Inc.
2044 Meadowbrook Road | P.O. Box 4657
Bridgeport, WV 26330
Phone: 304 842 5285 | Fax: 304 842 5351

Martinsburg Laboratory
Ridgefield Business Center | 25 Crimson Circle
Martinsburg, WV 25403
Phone: 304 596 2084 | Fax: 304 596 2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00501

SMITH LAND SURVEYING, INC.
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221808-2014-DW **Sample ID:** (7657) KESTNER H2O WELL-1 (2)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 7.54	S.U.	SM4500H+B-00	11/10/2014	10:37	KV		
Total Aluminum	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.005	0.01
Total Barium	0.130	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	2
Total Calcium	72.5	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	
Total Chloride	5.20	mg/l	EPA 300.0 R2.1	11/10/2014	23:54	KD	0.15	[250]
Total Dissolved Solids	428	mg/l	SM2540C-97	11/10/2014	11:00	CP	10	[500]
Total Iron	0.533	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.1	[0.3]
Total Manganese	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	[0.05]
Total Sodium	89.6	mg/l	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	[20]
Total Sulfate	32.6	mg/l	EPA 300.0 R2.1	11/10/2014	23:54	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 12:30
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: #Holding time exceeded for this analysis.

RL1301

10701746

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Reliance LABORATORIES

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00501

SMITH LAND SURVEYING, INC.
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221808-2014-DW **Sample ID:** (7657) KESTNER H2O WELL-1 (2)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: **Total Petroleum Hydrocarbons**								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	10:30	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	10:30	MC	1	
o-Terphenyl (Surrogate)	121	%	SW8015B	11/26/2014	10:30	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/11/2014	11:55	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/11/2014	11:55	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/11/2014	11:55	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/11/2014	11:55	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/11/2014	11:55	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	108	%	SW8021B	11/11/2014	11:55	MC		

Remarks:

Date Sample Collected: 11/6/2014 12:30
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg.C
ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED, US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

R11-001

10701748

SITE-2

10701748

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Reliance LABORATORIES

Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 161
MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00001

SMITH LAND SURVEYING, INC.
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221809-2014-DW **Sample ID:** (7657) KESTNER H2O WELL-2 (3)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: **Inorganics**								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 7.61	S.U.	SM4500H+B-00	11/10/2014	13:29	KV		
Total Aluminum	0.087	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.005	0.01
Total Barium	0.451	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	2
Total Calcium	62.8	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	
Total Chloride	35.5	mg/l	EPA 300.0 R2.1	11/11/2014	7:11	KD	0.15	[250]
Total Dissolved Solids	564	mg/l	SM2540C-97	11/10/2014	11:00	CP	10	[500]
Total Iron	0.481	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.1	[0.3]
Total Manganese	0.375	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	[0.05]
Total Sodium	184	mg/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	[20]
Total Sulfate	39.4	mg/l	EPA 300.0 R2.1	11/11/2014	7:11	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 12:45
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044
NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve
NOTE: #Holding time exceeded for this analysis

RL1001

10701748

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

SMITH LAND SURVEYING, INC.
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221809-2014-DW **Sample ID:** (7657) KESTNER H2O WELL-2 (3)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	11:10	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	11:10	MC	1	
o-Terphenyl (Surrogate)	131	%	SW8015B	11/26/2014	11:10	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/11/2014	12:27	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/11/2014	12:27	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/11/2014	12:27	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/11/2014	12:27	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/11/2014	12:27	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	107	%	SW8021B	11/11/2014	12:27	MC		

Remarks:

Date Sample Collected: 11/6/2014 12:45
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated
ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

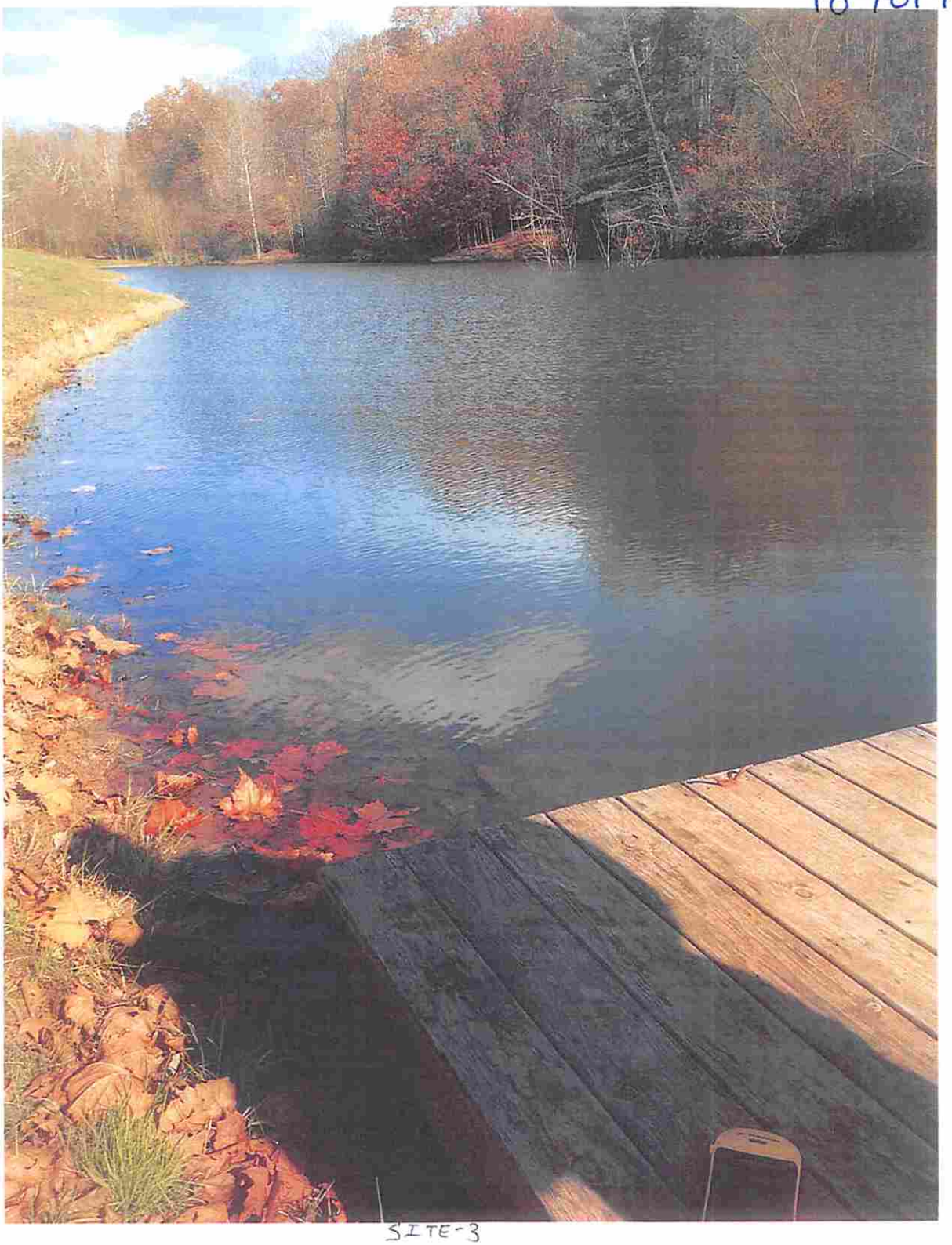
***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

10701748



SITE-3

10701748

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MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

SMITH LAND SURVEYING, INC
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221810-2014-DW **Sample ID:** (7657) KESTNER POND (4)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
pH	#7.48	S.U.	SM4500H+B-00	11/10/2014	13:31	KV		
Total Aluminum	0.090	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.005	0.01
Total Barium	0.033	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.01	2
Total Calcium	11.3	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.01	
Total Chloride	1.87	mg/l	EPA 300.0 R2.1	11/11/2014	0:25	KD	0.15	[250]
Total Dissolved Solids	112	mg/l	SM2540C-97	11/10/2014	11:00	CP	10	[500]
Total Iron	1.30	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.1	[0.3]
Total Manganese	0.974	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.01	[0.05]
Total Sodium	8.04	mg/l	EPA 200.8 R5.4	11/13/2014	13:33	TH	0.01	[20]
Total Sulfate	6.48	mg/l	EPA 300.0 R2.1	11/11/2014	0:25	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 13:00
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg.C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

RL1001

10701748

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SMITH LAND SURVEYING, INC
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221810-2014-DW **Sample ID:** (7657) KESTNER POND (4)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	11:52	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	11:52	MC	1	
o-Terphenyl (Surrogate)	83.5	%	SW8015B	11/26/2014	11:52	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/11/2014	13:01	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/11/2014	13:01	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/11/2014	13:01	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/11/2014	13:01	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/11/2014	13:01	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	91.3	%	SW8021B	11/11/2014	13:01	MC		

Remarks:

Date Sample Collected: 11/6/2014 13:00
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

R11.001

10701748

SITE-4

10701748

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

SMITH LAND SURVEYING, INC
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221811-2014-DW **Sample ID:** (7657) BILL TOWNSEND H2O WELL-1 (5)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 7.67	S.U.	SM4500H+B-00	11/10/2014	13:33	KV		
Total Aluminum	0.068	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.005	0.01
Total Barium	0.040	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	2
Total Calcium	66.0	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	
Total Chloride	17.2	mg/l	EPA 300.0 R2.1	11/11/2014	0:57	KD	0.15	[250]
Total Dissolved Solids	892	mg/l	SM2540C-97	11/10/2014	11:00	CP	10	[500]
Total Iron	0.766	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.1	[0.3]
Total Manganese	0.032	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	[0.05]
Total Sodium	206	mg/l	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	[20]
Total Sulfate	236	mg/l	EPA 300.0 R2.1	11/11/2014	0:57	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 13:15
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M.

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: #Holding time exceeded for this analysis.

RL1001

10701748

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Reliance LABORATORIES

Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 181
MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221811-2014-DW **Sample ID:** (7657) BILL TOWNSEND H2O WELL-1 (5)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	12:32	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	12:32	MC	1	
o-Terphenyl (Surrogate)	112	%	SW8015B	11/26/2014	12:32	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/11/2014	14:06	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/11/2014	14:06	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/11/2014	14:06	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/11/2014	14:06	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/11/2014	14:06	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	107	%	SW8021B	11/11/2014	14:06	MC		

Remarks:

Date Sample Collected: 11/6/2014 13:15
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

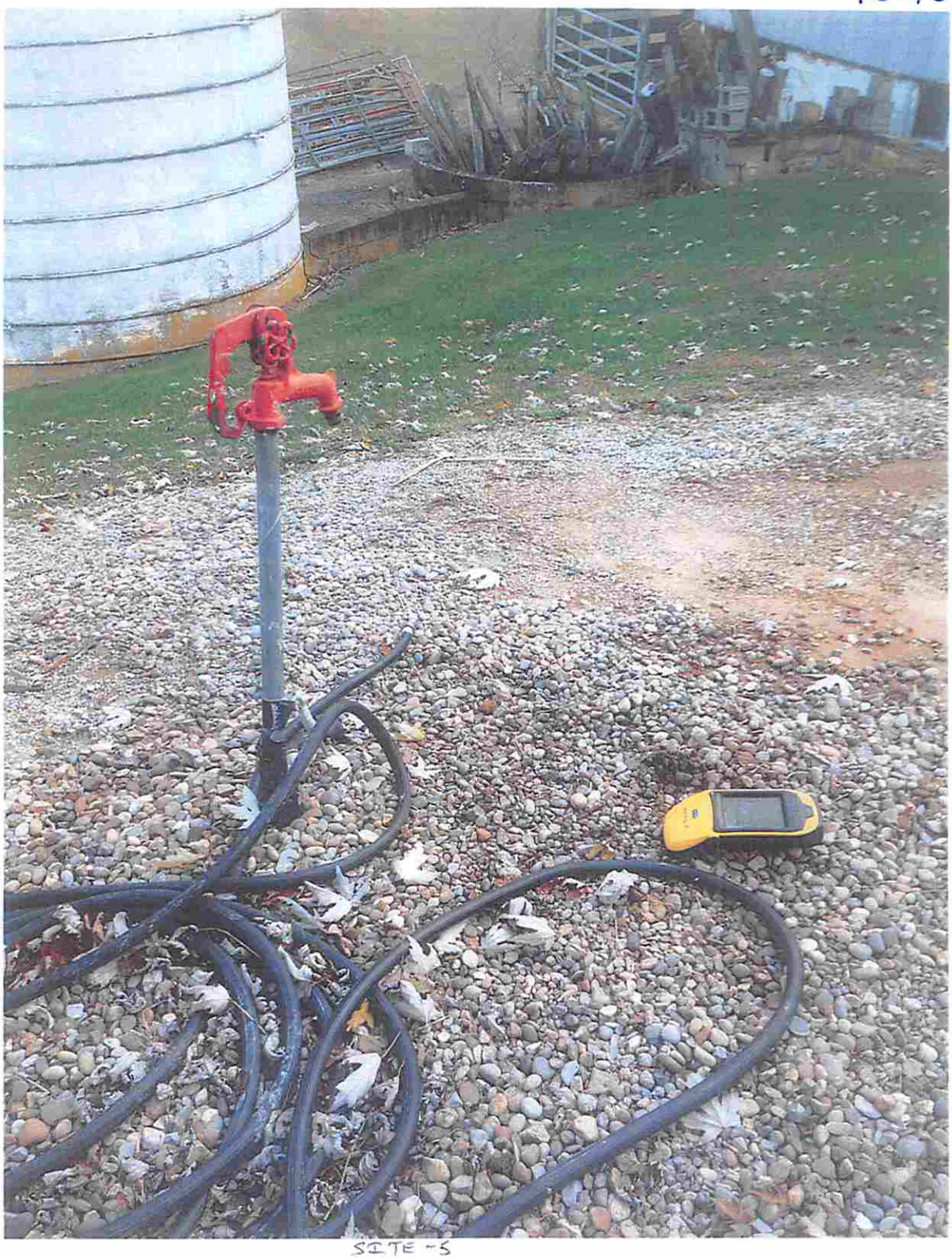
NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: #Holding time exceeded for this analysis

RL1001

10701748



SITE -5

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Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 181
MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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GLENVILLE, WV 26351-

Lab Number: 221812-2014-DW **Sample ID:** (7657) BILL TOWNSEND H2O WELL-2 (6)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 8.32	S.U.	SM4500H+B-00	11/10/2014	13:35	KV		
Total Aluminum	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.005	0.01
Total Barium	0.065	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	2
Total Calcium	21.1	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	
Total Chloride	16.1	mg/l	EPA 300.0 R2.1	11/11/2014	1:28	KD	0.15	[250]
Total Dissolved Solids	746	mg/l	SM2540C-97	11/10/2014	11:00	CP	10	[500]
Total Iron	0.199	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.1	[0.3]
Total Manganese	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	[0.05]
Total Sodium	277	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	[20]
Total Sulfate	140	mg/l	EPA 300.0 R2.1	11/11/2014	1:28	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 13:30
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221812-2014-DW **Sample ID:** (7657) BILL TOWNSEND H2O WELL-2 (6)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	13:12	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	13:12	MC	1	
o-Terphenyl (Surrogate)	104	%	SW8015B	11/26/2014	13:12	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/14/2014	11:44	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/14/2014	11:44	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/14/2014	11:44	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/14/2014	11:44	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/14/2014	11:44	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	111	%	SW8021B	11/14/2014	11:44	MC		

Remarks:

Date Sample Collected: 11/6/2014 13:30
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 9.4 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated
ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

RL1101

10701748

SITE-6

10701748

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00601

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GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221814-2014-DW **Sample ID:** (7657) JIM TOWNSEND H2O WELL (7)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 7.53	S.U.	SM4500H+B-00	11/10/2014	13:37	KV		
Total Aluminum	0.034	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.005	0.01
Total Barium	0.088	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.01	2
Total Calcium	58.7	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.01	
Total Chloride	9.39	mg/l	EPA 300.0 R2.1	11/11/2014	1:59	KD	0.15	[250]
Total Dissolved Solids	274	mg/l	SM2540C-97	11/11/2014	10:10	CT	10	[500]
Total Iron	0.548	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.1	[0.3]
Total Manganese	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.01	[0.05]
Total Sodium	36.4	mg/l	EPA 200.8 R5.4	11/13/2014	13:52	TH	0.01	[20]
Total Sulfate	24.7	mg/l	EPA 300.0 R2.1	11/11/2014	1:59	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 13:45
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: #Holding time exceeded for this analysis

10701748

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00001

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GLENVILLE, WV 26351-

Lab Number: 221814-2014-DW **Sample ID:** (7657) JIM TOWNSEND H2O WELL (7)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	13:53	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	13:53	MC	1	
o-Terphenyl (Surrogate)	70.0	%	SW8015B	11/26/2014	13:53	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/14/2014	12:34	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/14/2014	12:34	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/14/2014	12:34	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/14/2014	12:34	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/14/2014	12:34	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	98.3	%	SW8021B	11/14/2014	12:34	MC		

Remarks:

Date Sample Collected: 11/6/2014 13:45
Sample Submitted By: D MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg.C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample Analyzed by Certified Laboratory #00354CM and #0044

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

RL1001

10701748

SITE -7

10701748

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

SMITH LAND SURVEYING, INC
P.O. BOX 150

GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221816-2014-DW **Sample ID:** (7657) NEVA SMITH H2O WELL (8)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
pH	# 8.63	S.U.	SM4500H+B-00	11/10/2014	13:39	KV		
Total Aluminum	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.005	0.01
Total Barium	0.385	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.01	2
Total Calcium	5.44	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.01	
Total Chloride	144	mg/l	EPA 300.0 R2.1	11/11/2014	7:43	KD	0.15	[250]
Total Dissolved Solids	638	mg/l	SM2540C-97	11/11/2014	10:10	CT	10	[500]
Total Iron	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.1	[0.3]
Total Manganese	ND	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.01	[0.05]
Total Sodium	276	mg/l	EPA 200.8 R5.4	11/13/2014	13:58	TH	0.01	[20]
Total Sulfate	9.44	mg/l	EPA 300.0 R2.1	11/11/2014	7:43	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/6/2014 14:15
Sample Submitted By: D.MCKEE
Date Sample Received: 11/7/2014 9:25
Sample temp. upon receipt: 0.4 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit **MRL - Minimum Reporting Limit**
MCL - Maximum Contaminant Level, USEPA Regulated **[MCL] = Maximum Contaminant Level, Non-Regulated**

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M.

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: #Holding time exceeded for this analysis.

RL1001

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MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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GLENVILLE, WV 26351-

Tuesday, December 02, 2014

Lab Number: 221816-2014-DW **Sample ID:** (7657) NEVA SMITH H2O WELL (8)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014	14:40	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014	14:40	MC	1	
o-Terphenyl (Surrogate)	111	%	SW8015B	11/26/2014	14:40	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/14/2014	13:06	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/14/2014	13:06	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/14/2014	13:06	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/14/2014	13:06	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/14/2014	13:06	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	110	%	SW8021B	11/14/2014	13:06	MC		

Remarks:

Date Sample Collected: 11/6/2014 14:15
Sample Submitted By: D.MCKEE
Date Sample Received: 11/7/2014 9:29
Sample temp. upon receipt: 0.4 Deg C
ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

RL1101

10701748

SITE-8

10701748

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Reliance LABORATORIES

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MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

SMITH LAND SURVEYING, INC
P.O. BOX 150

GLENVILLE, WV 26351-

Wednesday, December 03, 2014

Lab Number: 222257-2014-DW **Sample ID:** (7657) STARCHER H2O WELL (4)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
pH	# 6.75	S.U.	SM4500H+B-00	11/18/2014	15:00	KV		
Total Aluminum	ND	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.005	0.01
Total Barium	0.020	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	2
Total Calcium	129	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	
Total Chloride	25.1	mg/l	EPA 300.0 R2.1	11/18/2014	15:13	KD	0.15	[250]
Total Dissolved Solids	858	mg/l	SM2540C-97	11/17/2014	11:10	CP	10	[500]
Total Iron	1.23	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.1	[0.3]
Total Manganese	ND	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	[0.05]
Total Sodium	86.7	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	[20]
Total Sulfate	268	mg/l	EPA 300.0 R2.1	11/18/2014	15:13	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/14/2014	15:00	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/13/2014 13:30
Sample Submitted By: G MCKEE
Date Sample Received: 11/14/2014 9:54
Sample temp. upon receipt: 1.0 Deg C

ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

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Bridgeport, WV 26330
Phone: 304.842.5285 | Fax: 304.842.5351

Martinsburg Laboratory
Ridgefield Business Center | 25 Crimson Circle
Martinsburg, WV 25403
Phone: 304.596.2084 | Fax: 304.596.2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

SMITH LAND SURVEYING, INC.
P.O. BOX 150

GLENVILLE, WV 26351-

Wednesday, December 03, 2014

Lab Number: 222257-2014-DW **Sample ID:** (7657) STARCHER H2O WELL (4)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum Hydrocarbons								
TPH - DRO	ND	mg/l	SW8015B/3535A	12/2/2014	16:12	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	12/2/2014	16:12	MC	1	
o-Terphenyl (Surrogate)	111	%	SW8015B	12/2/2014	16:12	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/20/2014	13:02	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/20/2014	13:02	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/20/2014	13:02	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/20/2014	13:02	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/20/2014	13:02	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	106	%	SW8021B	11/20/2014	13:02	MC		

Remarks:

Date Sample Collected: 11/13/2014 13:30
Sample Submitted By: D.MCKEE
Date Sample Received: 11/14/2014 9:54
Sample temp. upon receipt: 1.0 Deg C
ND = Not Detected at the MDL or MRL
MDL - Minimum Detectable Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contaminant Level, USEPA Regulated
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354GM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

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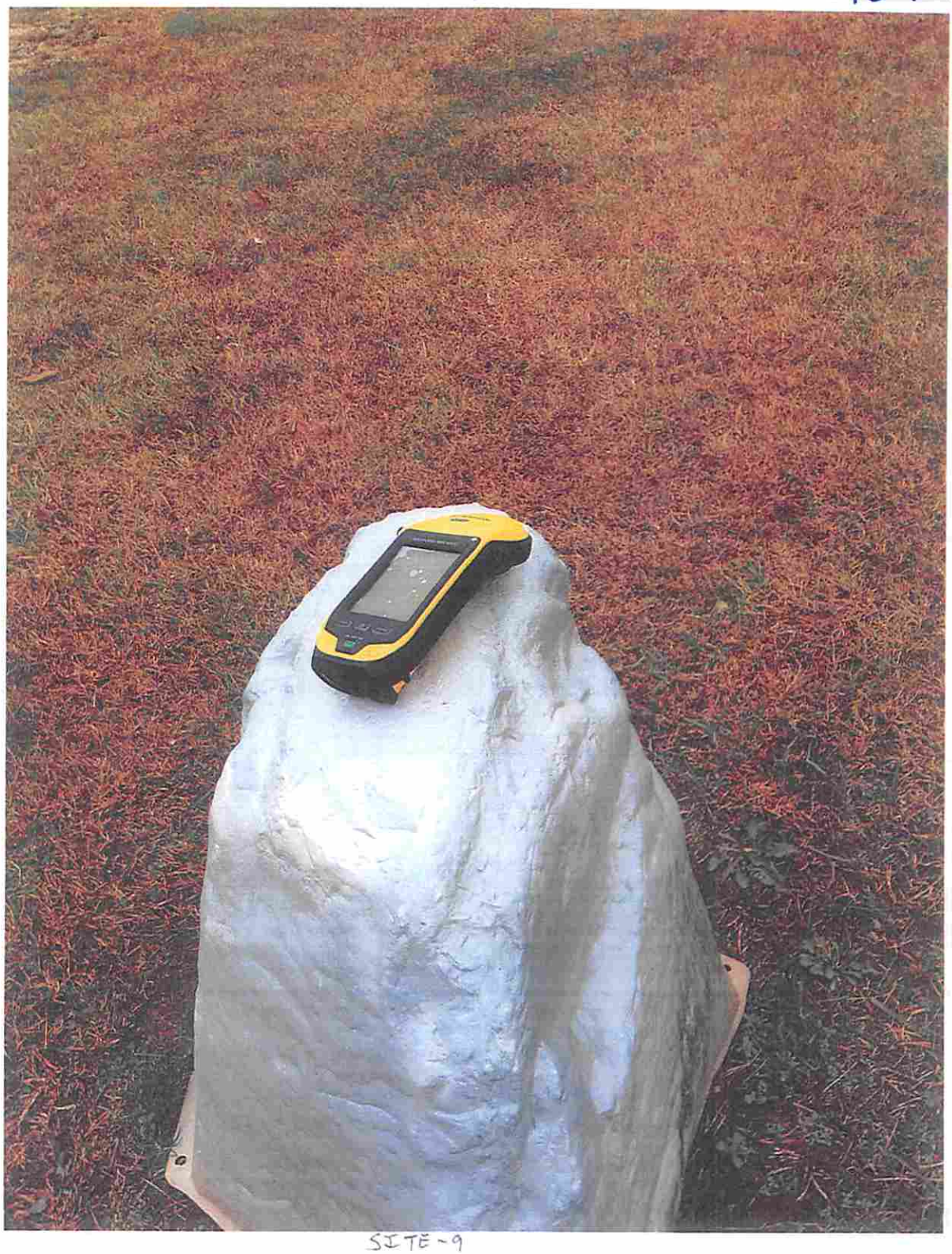

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Martinsburg Laboratory
Ridgefield Business Center | 25 Crimson Circle
Martinsburg, WV 25403
Phone: 304.596.2084 | Fax: 304.596.2086

Reliance LABORATORIES

Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 181
MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

SMITH LAND SURVEYING, INC
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GLENVILLE, WV 26351-

Wednesday, December 03, 2014

Lab Number: 222258-2014-DW **Sample ID:** (7657) BLATT H2O WELL (5)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
pH	# 6.86	S.U.	SM4500H+B-00	11/18/2014	15:00	KV		
Total Aluminum	ND	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.01	[0.05]
Total Arsenic	ND	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.005	0.01
Total Barium	0.133	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.01	2
Total Calcium	33.7	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.01	
Total Chloride	7.63	mg/l	EPA 300.0 R2.1	11/18/2014	15:45	KD	0.15	[250]
Total Dissolved Solids	394	mg/l	SM2540C-97	11/17/2014	11:10	CP	10	[500]
Total Iron	0.225	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.1	[0.3]
Total Manganese	0.319	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.01	[0.05]
Total Sodium	88.5	mg/l	EPA 200.8 R5.4	11/26/2014	14:23	TH	0.01	[20]
Total Sulfate	30.4	mg/l	EPA 300.0 R2.1	11/18/2014	15:45	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/14/2014	15:00	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 11/13/2014 14:25
Sample Submitted By: D.MCKEE
Date Sample Received: 11/14/2014 9:54
Sample temp. upon receipt: 1.0 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve.

NOTE: # holding time exceeded for this analysis.

RL1401

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Certifications: WV Department of Health # 00354, 00443 | WV Department of Environmental Protection # 158, 181
MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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GLENVILLE, WV 26351-

Wednesday, December 03, 2014

Lab Number: 222258-2014-DW **Sample ID:** (7657) BLATT H2O WELL (5)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: **Total Petroleum Hydrocarbons**								
TPH - DRO	ND	mg/l	SW8015B/3535A	12/2/2014	16:54	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	12/2/2014	16:54	MC	1	
o-Terphenyl (Surrogate)	119	%	SW8015B	12/2/2014	16:54	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/20/2014	13:37	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/20/2014	13:37	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/20/2014	13:37	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/20/2014	13:37	MC	0.2	
Xylenes	ND	mg/l	SW8021B/5030B	11/20/2014	13:37	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	87.0	%	SW8021B	11/20/2014	13:37	MC		

Remarks:

Date Sample Collected: 11/13/2014 14:25
Sample Submitted By: D MCKEE
Date Sample Received: 11/14/2014 9:54
Sample temp. upon receipt: 1.0 Deg C
MDL - Minimum Detectable Limit
MCL - Maximum Contaminant Level, USEPA Regulated

ND = Not Detected at the MDL or MRL
MRL - Minimum Reporting Limit
[MCL] = Maximum Contaminant Level, Non-Regulated

***Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.**

NOTE: This sample meets standards set for Total Coliform and E. Coli by the State of West Virginia, 64-3-10, Code of State Regulations adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and #00443M

NOTE: ND or Not Detected indicates that the analytical value obtained is below the minimum reportable limit (MRL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

NOTE: #Holding time exceeded for this analysis

RL1001

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WATER SAMPLES

HUDKINS/POSTON LEASE
WELL NO. 1

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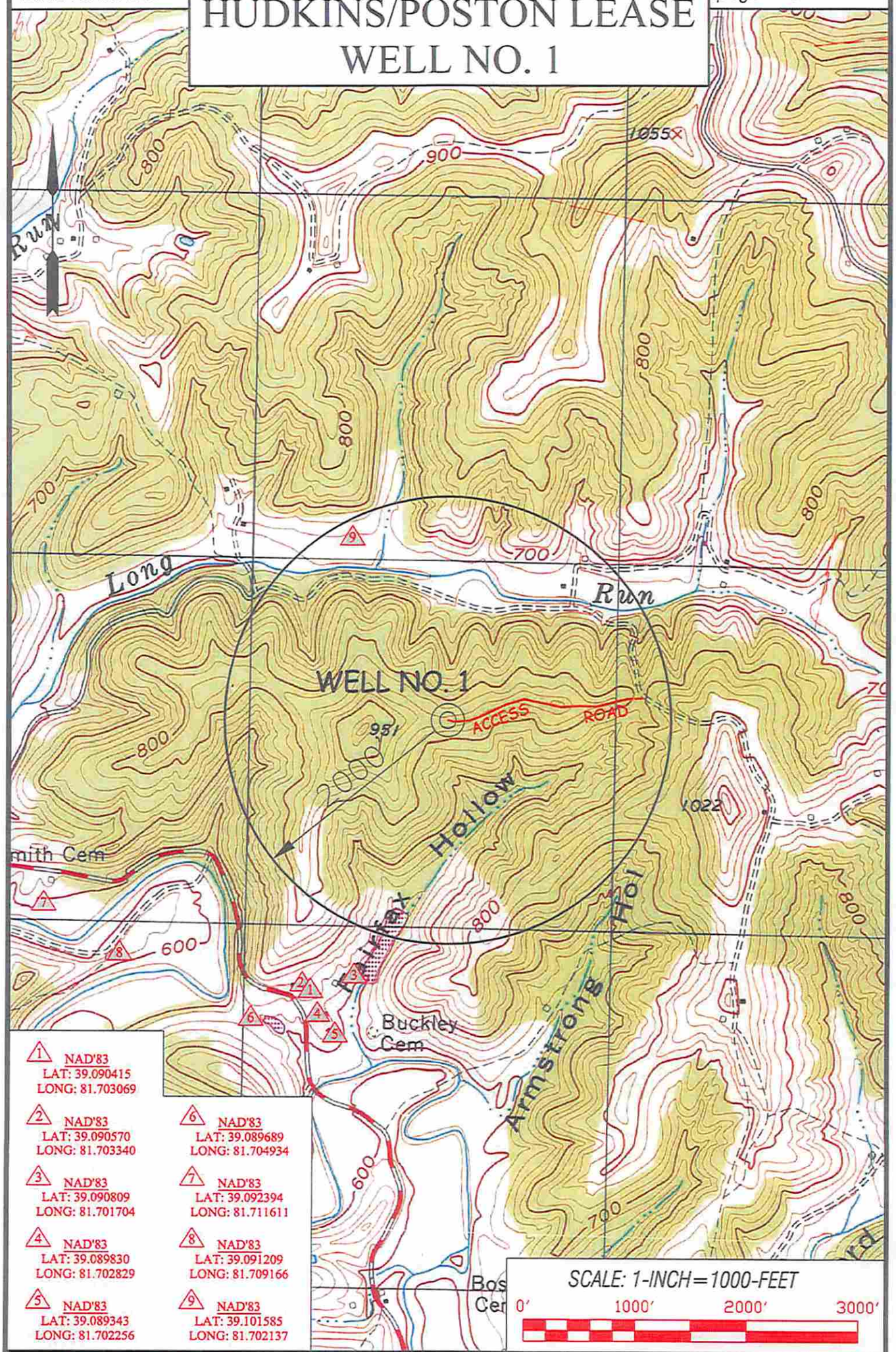

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.

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K.D.W.	7657	12/08/12	7657WGL.dwg

TOPO SECTION OF:
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HARRIS	WOOD	590-B

OPERATOR:
PENNECO OIL COMPANY
6608 ROUTE 22
DELMONT, PA 15626

10701748

SLS SMITH LAND SURVEYING, INC.
P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX (304) 462-5656

LETTER OF TRANSMITTAL

DATE	JOB NO
12/09/2014	7657
ATTENTION	
Mr. Dave Smail	
RE	
Final Water Well Data Info. For the HUDKINS / POSTON #1 Well pad	

TO PENNECO OIL COMPANY
6608 Route 22
Delmont, PA 15626

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☒ Prints ☐ Plans ☒ Samples ☐ Specifications
☒ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO	DESCRIPTION
1	12/09/2014	1	Final Water Map
1	12/09/2014	18	Sample results
1	12/09/2014	1 / 12	Letters of Refusal / Copies of certified letters
1	12/09/2014	3	Final water data sheets

THESE ARE TRANSMITTED as checked below: FOR SAMPLES TAKEN October - December 20 14

☒ As requested ☒ For your use ☐ For your file
☐ Duplicate copy ☐ Other (specify) _____

REMARKS

If you have any questions please feel free to contact me at our office. Thank you for your time and cooperation concerning this matter.

Notes: 1. This pre-drilling type of water analysis is used by Smith Land Surveying, Inc. to determine general water quality and does not imply nor should it be relied upon as evidence of the potability or safety of your water supply.

2. Any questions or concerns you may have regarding the present quality of your water supply should be directed to your local Department of Health.

DMcKee@slssurveys.com

COPY TO SLS Files

7657.PENNECO.HUDKINS.TRANSMITTLE

SIGNED: Daniel McKee Environmental Technician

If enclosures are not as noted, kindly notify us at once.

10701748

WW-9
(5/13)

Page _____ of _____
API Number 47 - _____ - _____
Operator's Well No. Hudkins/Poston Unit #1

17916
CK 400.00

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Penneco Oil Company OP Code 494460033

Watershed (HUC 10) Long Run and Fairfax Hollow Quadrangle Pond Creek 7.5'

Elevation 843' County Wood District Harris

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Drill water and various formation cuttings

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes:

X Land Application
_____ Underground Injection (UIC Permit Number_____)
_____ Reuse (at API Number_____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
■ Other (Explain Solidified with cement and encapsulated and buried

Will closed loop system be used? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air/Water

-If oil based, what type? Synthetic, petroleum, etc._____

Additives to be used in drilling medium? Soap

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit - Encapsulated and buried

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Stephen K. Schuman

Company Official (Typed Name) Stephen K. Schuman

Company Official Title Designated Agent

Subscribed and sworn before me this 18th day of March, 20 14

Lois A. Brown Notary Public

My commission expires August 22, 2017

Official Seal
Notary Public, State Of West Virginia
Lois A Brown
1552 Little Sandy Road
Bruceton Mills WV 26525
My commission expires August 22, 2017

10701748

Form WW-9

Operator's Well No. **Hudkins/Poston Unit #1**

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2 ± Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jamie Stevens

Comments:

Title: Date: 3/11/2014

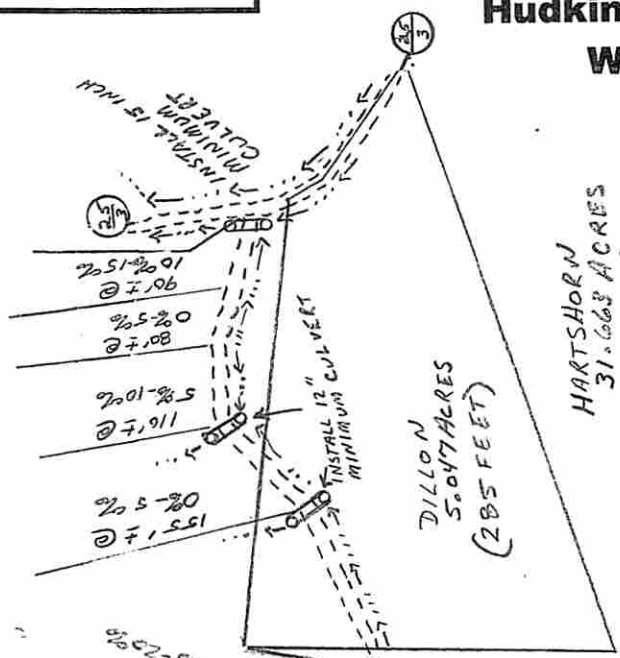
Field Reviewed? (✓) Yes ( ) No Previously Reviewed

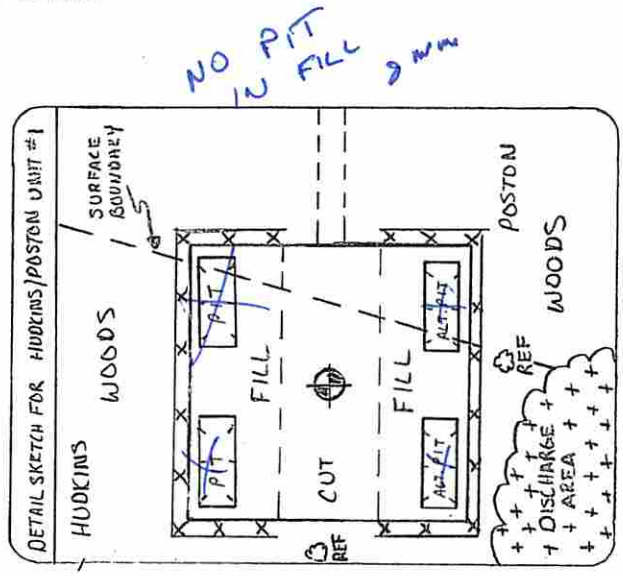
10701748

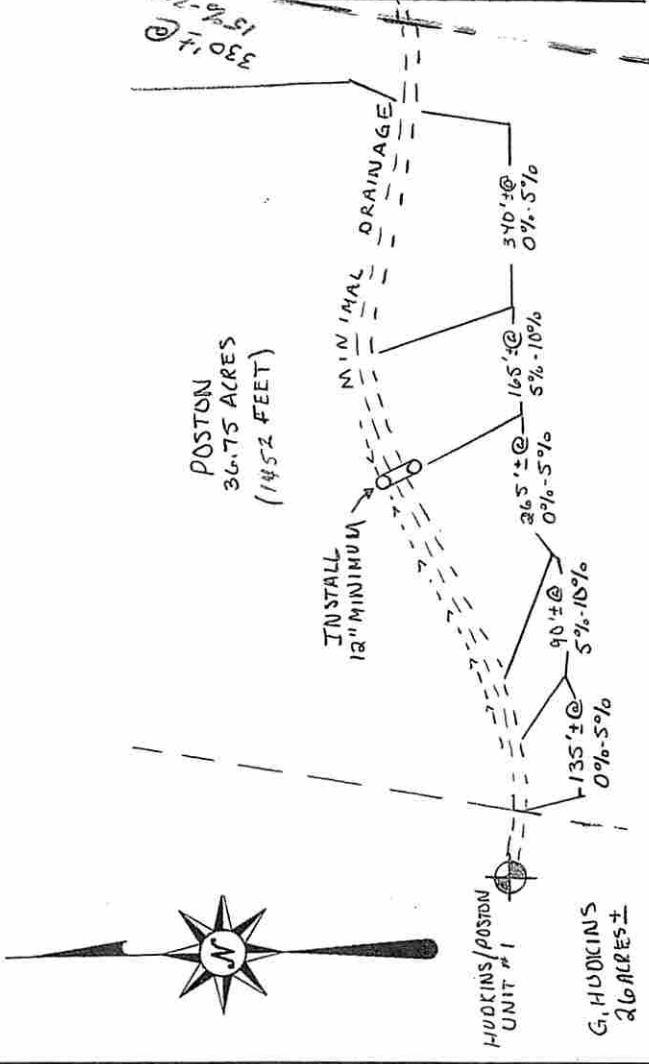
Form WW-9

page of

Hudkins/Poston Unit
Well No. 1







DRAWING NOT TO SCALE

3/11/2014

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS(TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS(ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

SLS SMITH LAND SURVEYING, INC.
P.O.BOX 150 GLENVILLE, WV. 26351
Phone: (304) 462-5634 Fax: 462-5656 email: sls@slssurveys.com

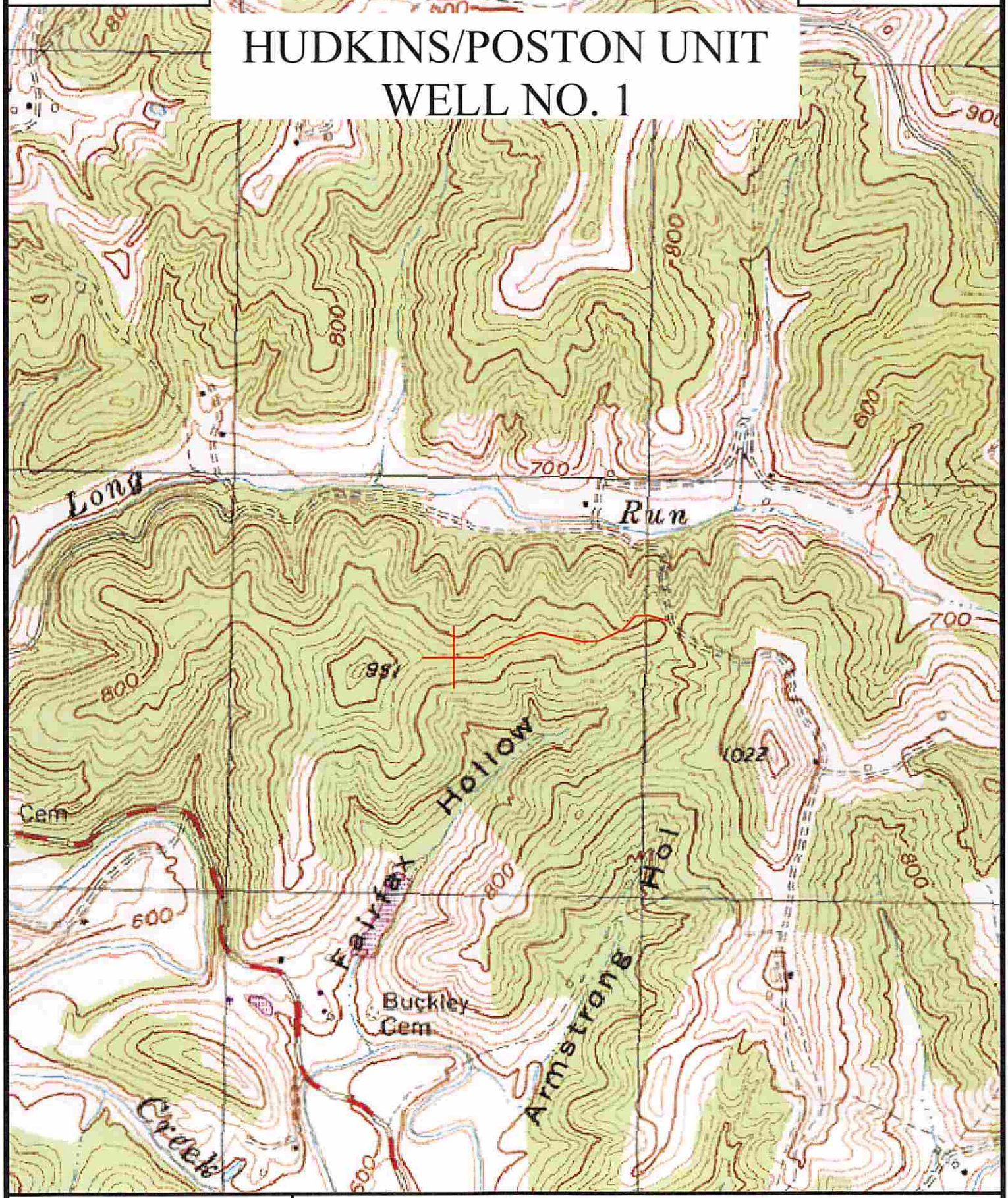
DRAWN BY DRR MJH Revised 2-18-14 DATE 6.9.11 FILE NO. 7657

10701748

FORM WW-9

page of

HUDKINS/POSTON UNIT WELL NO. 1



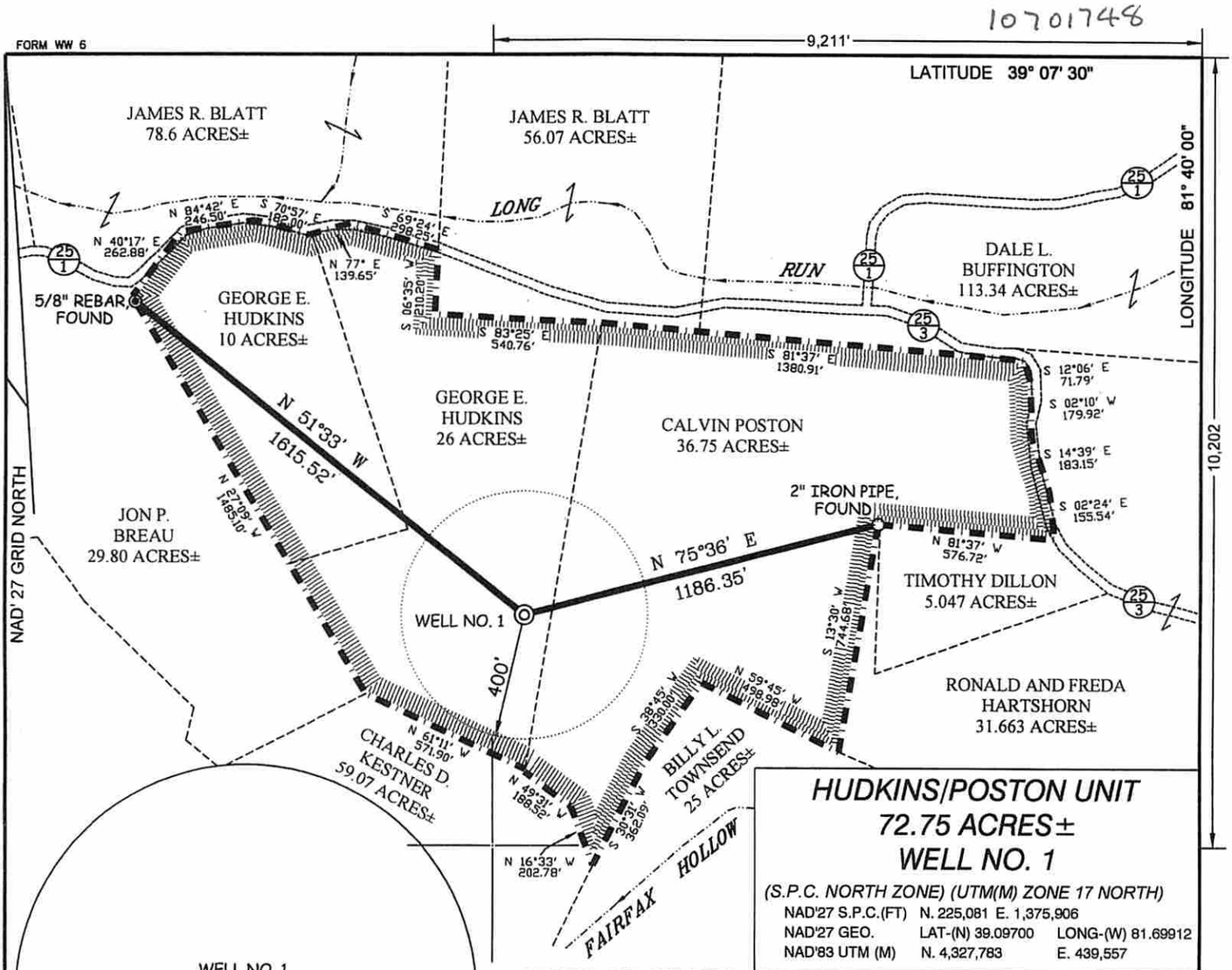
Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING
SURVEYORS PROJECT MGMT. SLS ENGINEERS ENVIRONMENTAL
P.O. Box 150 Glenville, WV 26351 (304) 462-5634
35065 Dillies Bottom Road Shadyside, OH 43947 (740) 671-6911
HONESTY. INTEGRITY. QUALITY

TOPO SECTIONS OF: POND CREEK 7.5'

FILE NO. 7657 DATE: 04/03/14 SCALE: 1"=1,000'

10701748

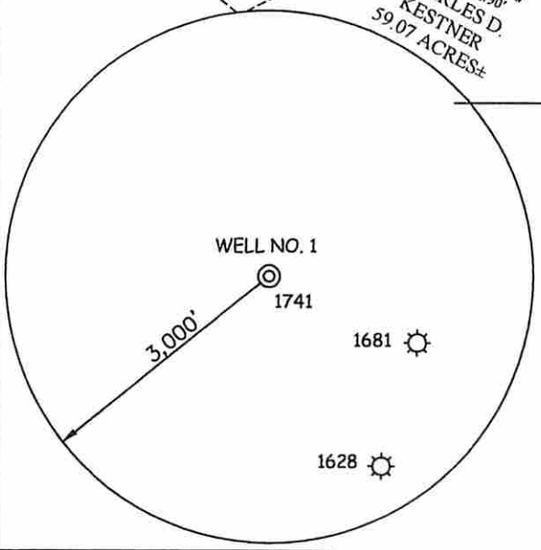
FORM WW 6



HUDKINS/POSTON UNIT
72.75 ACRES±
WELL NO. 1

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

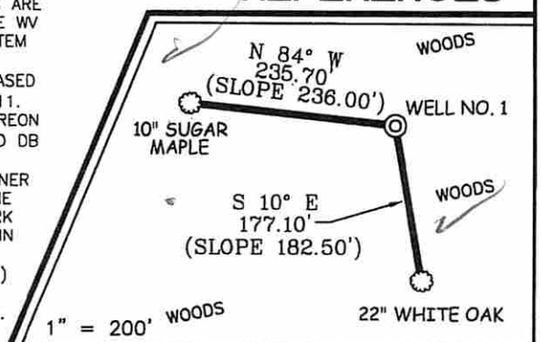
NAD'27 S.P.C.(FT)	N. 225,081 E. 1,375,906	
NAD'27 GEO.	LAT-(N) 39.09700	LONG-(W) 81.69912
NAD'83 UTM (M)	N. 4,327,783	E. 439,557



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD'27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 06/08/11.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DB 1035/213, AND DB 762/380.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WOOD COUNTY IN JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

REFERENCES



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A DIVISION OF SMITH LAND SURVEYING, INC.
SLS — SURVEYORS, ENGINEERS, ENVIRONMENTAL, PROJECT MGMT.
(304) 462-8434 WWW.SLSSURVEYS.COM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 18, 20 14

REVISED _____, 20 ____

OPERATORS WELL NO. HUDKINS/POSTON UNIT #1

API WELL NO. 47 — 107 — 01748
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7657P1R

SCALE 1" = 500'

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____ IF "GAS" PRODUCTION X STORAGE ____ DEEP X SHALLOW ____

LOCATION:

ELEVATION 843' WATERSHED LONG RUN AND FAIRFAX HOLLOW

DISTRICT HARRIS COUNTY WOOD QUADRANGLE POND CREEK 7.5'

SURFACE OWNER GEORGE E. HUDKINS ACREAGE 26±

ROYALTY OWNER GEORGE E. HUDKINS - 36 ACRES± / SANDRA LEE POSTON - 36.75 ACRES±

PROPOSED WORK: LEASE NO. _____

DRILL X CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ____ PERFORATE NEW FORMATION ____ PLUG AND ABANDON ____ CLEAN OUT AND REPLUG ____ OTHER ____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION TRENTON/BLACK RIVER

ESTIMATED DEPTH 9,600'

COUNTY NAME

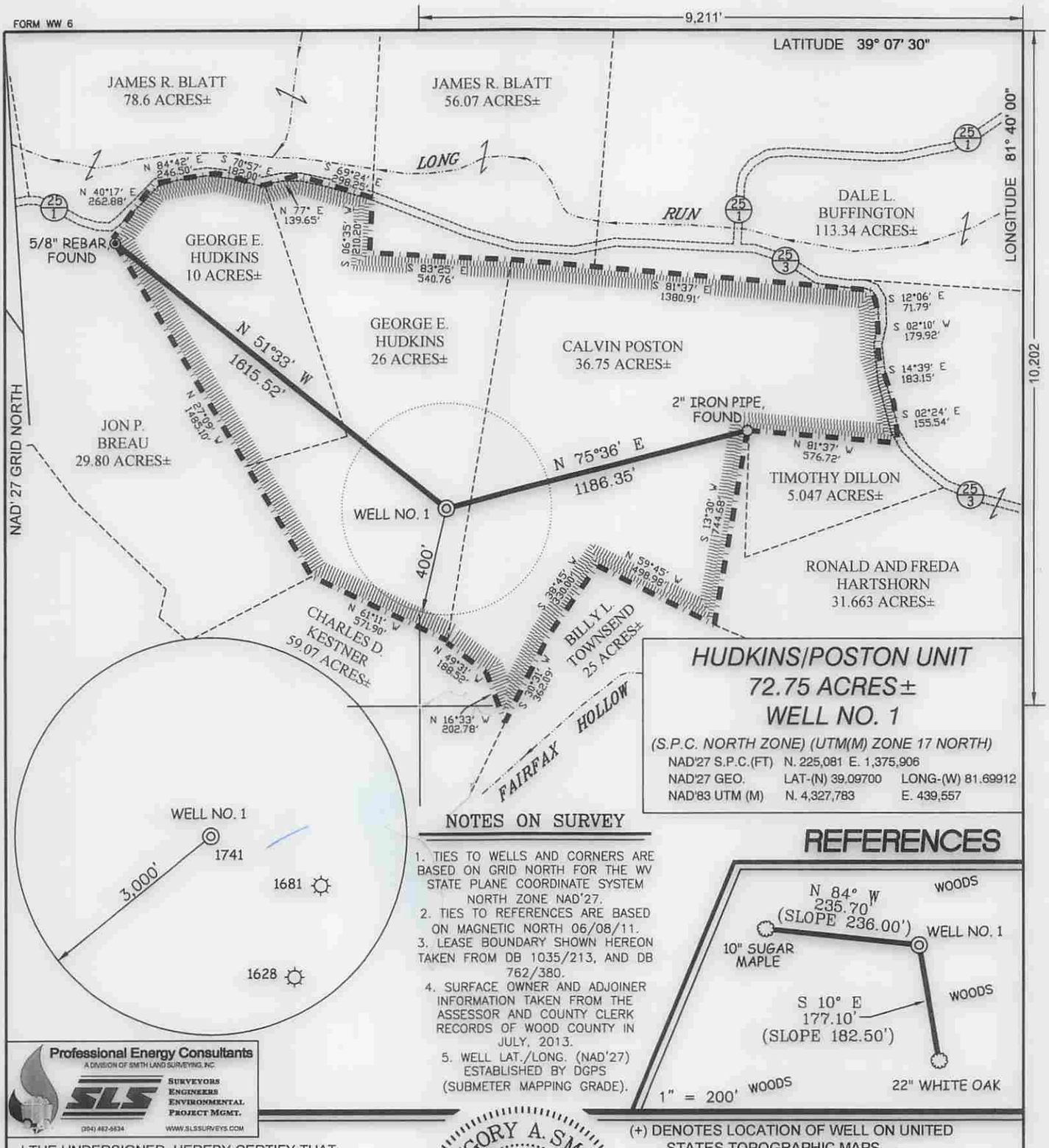
PERMIT

WELL OPERATOR PENNECO OIL COMPANY DESIGNATED AGENT STEPHEN K. SCHUMAN

ADDRESS 6608 ROUTE 22 ADDRESS P.O. BOX 842

DELMONT, PA 15626 MORGANTOWN, WV 26507

FORM WW 6



HUDKINS/POSTON UNIT
72.75 ACRES±
WELL NO. 1

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 225,081	E. 1,375,906
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API WELL NO. 47 — 107 — 01748
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SCALE 1" = 500'

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____ IF "GAS" PRODUCTION X STORAGE ____ DEEP X SHALLOW ____

LOCATION:

ELEVATION 843' WATERSHED LONG RUN AND FAIRFAX HOLLOW

DISTRICT HARRIS COUNTY WOOD QUADRANGLE POND CREEK 7.5'

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PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION TRENTON/BLACK RIVER

ESTIMATED DEPTH 9,600'

COUNTY NAME

PERMIT

WELL OPERATOR PENNECO OIL COMPANY DESIGNATED AGENT STEPHEN K. SCHUMAN

ADDRESS 6608 ROUTE 22 ADDRESS P.O. BOX 842

DELMONT, PA 15626 MORGANTOWN, WV 26507

SLS

134868

C&E 107017448

PENNECO
YOUR ENERGY EXPLORATION PARTNER

DEEP WELL DRILLING PROCEDURES AND SITE SAFETY PLAN

Penneco Oil Company

Hudkins/Poston Unit # 1

API # 47- 107-01748

Pond Creek Quad, Harris District - Wood County, West Virginia

The Following Deep Well Drilling Procedure and Site Safety Plan Approved By:

CRaines 7/10/14

By: _____ **Date:** _____

Title: _____, **Penneco**

By: _____ **Date:** _____

Title: _____, **WVOOG**

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

10701748

TABLE OF CONTENTS

Siting Requirements.....3

Site Safety Plan
- *Pit & Flare Lines*.....4
- *Pre-Spud Meeting: Date, Persons Attended*.....5
- *Access Control Report*.....6
- *Evacuation Plan*.....7-9
- *Schedule of Safety Meetings*.....10
- *List of Nearest Emergency Response Personnel and Phone Numbers*.....11-12

Driving Directions.....13

Casing Requirements
- *Geologic Prognosis*.....15
- *Details on known location of freshwater, saltwater, oil and gas producing, hydrogen sulfide producing, "thief" and high pressure and volume zones*.....14
- *Detailed Casing and Cementing Program*.....14 - 17

BOP Requirements
- *List of BOP equipment*.....19-20
- *Procedure and schedule of testing the BOP equipment*.....19
- *Schedule of installation of BOP equipment*.....19
- *List of BOP trained and active certified personnel involved in drilling operations*.....20
- *System of maintaining detailed records of significant drilling events*.....20
- *Wellhead Schematic*.....22-25

Well Flaring Operations
- *Flare line installation*.....26
- *Burning/Lighting of flare line*.....26
- *Minimum distance of clearing of flammable material*.....26

Well Killing Operations
- *Inventory of all materials that will be used on-site for the mixing of kill weight fluids*.....26
- *Number and type of mixing units*.....26

Hydrogen Sulfide (H_2S) Operations
- *H_2S monitoring equipment*.....27
- *H_2S protection equipment*.....27 - 28
- *H_2S notification method and access control*.....28
- *H_2S training statement*.....28
- *H_2S sensors deep well layout*.....29
- List of Names.....30 & 31

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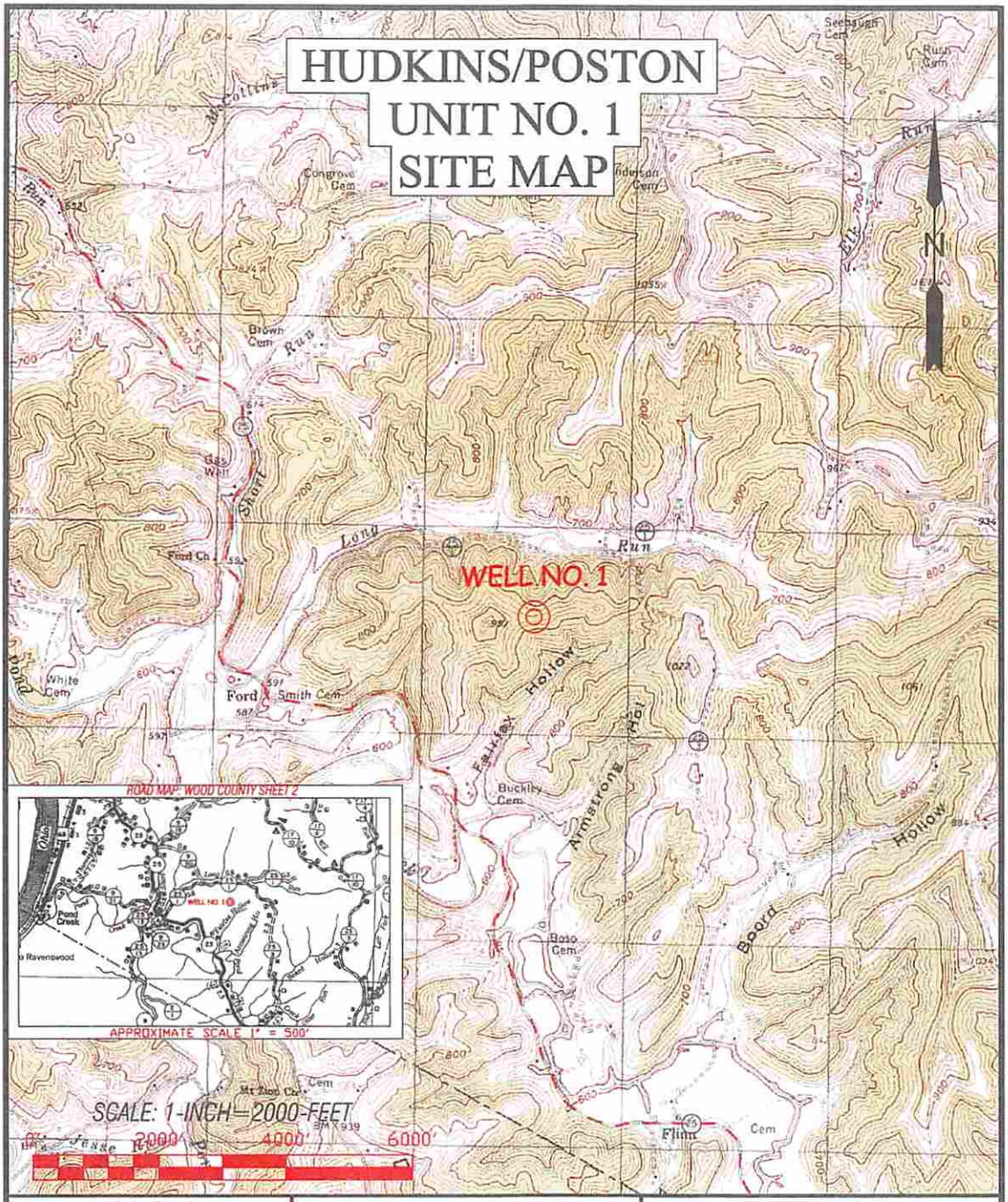
SITING PLAN



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DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7657	02/21/14	7657SITEMAP1.DWG

TOPO SECTION OF:
POND CREEK, WV 7.5' QUAD.

COUNTY	DISTRICT	TAX MAP-PARCEL NO.
WOOD	HARRIS	590-B

OPERATOR:
PENNECO OIL COMPANY
6608 ROUTE 22
DELMONT, PA 15626

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WV Dept. of Environmental Protection

Pit & Flare Lines

WW-9
Rev. 5/10

Page _____ of _____
API Number 47 - _____ - _____
Operator's Well No. Hudkins/Poston Unit #1

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Penneco Oil Company OP Code 494460033

Watershed Long Run and Fairfax Hollow Quadrangle Pond Creek 7.5'

Elevation 843' County Wood District Harris

Description of anticipated Pit Waste: Drill Water and Various Formation Cuttings

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a synthetic liner be used in the pit? Yes . If so, what mil.? 30

Proposed Disposal Method For Treated Pit Wastes:

- ____ Land Application
- ____ Underground Injection (UIC Permit Number _____)
- ____ Reuse (at API Number _____)
- X Off Site Disposal (Supply form WW-9 for disposal location)
- X Other (Explain Solidified with cement and encapsulated and buried)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air/Water

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? Soap

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit - Encapsulated and buried

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust Cement

-Landfill or offsite name/permit number? AOP/Belmont, WV – Triad Hunter/Macksburg, OH – Danny Webb/Lochnelly, WV

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) _____

Company Official Title _____

Subscribed and sworn before me this _____ day of _____, 20____

_____ Notary Public

My commission expires _____

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Meeting Date:_____

Drilling Deeper Meeting

Hudkins/Poston Unit # 1

NAME	TITLE
	Penneco DRILLING REPRESENTATIVE
	Penneco SITE SUPERVISOR/REPRESENTATIVE
	STATE INSPECTOR
	DRILLING CONTRACTOR REPRESENTATIVE

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Office of Oil and Gas
WV Dept. of Environmental Protection

Sign In Sheet

Rig / Well County / State WBS

Date	Name (please print)	Company	Time		Were you injured during your visit?		
			In	Out	Initial	NO	Yes

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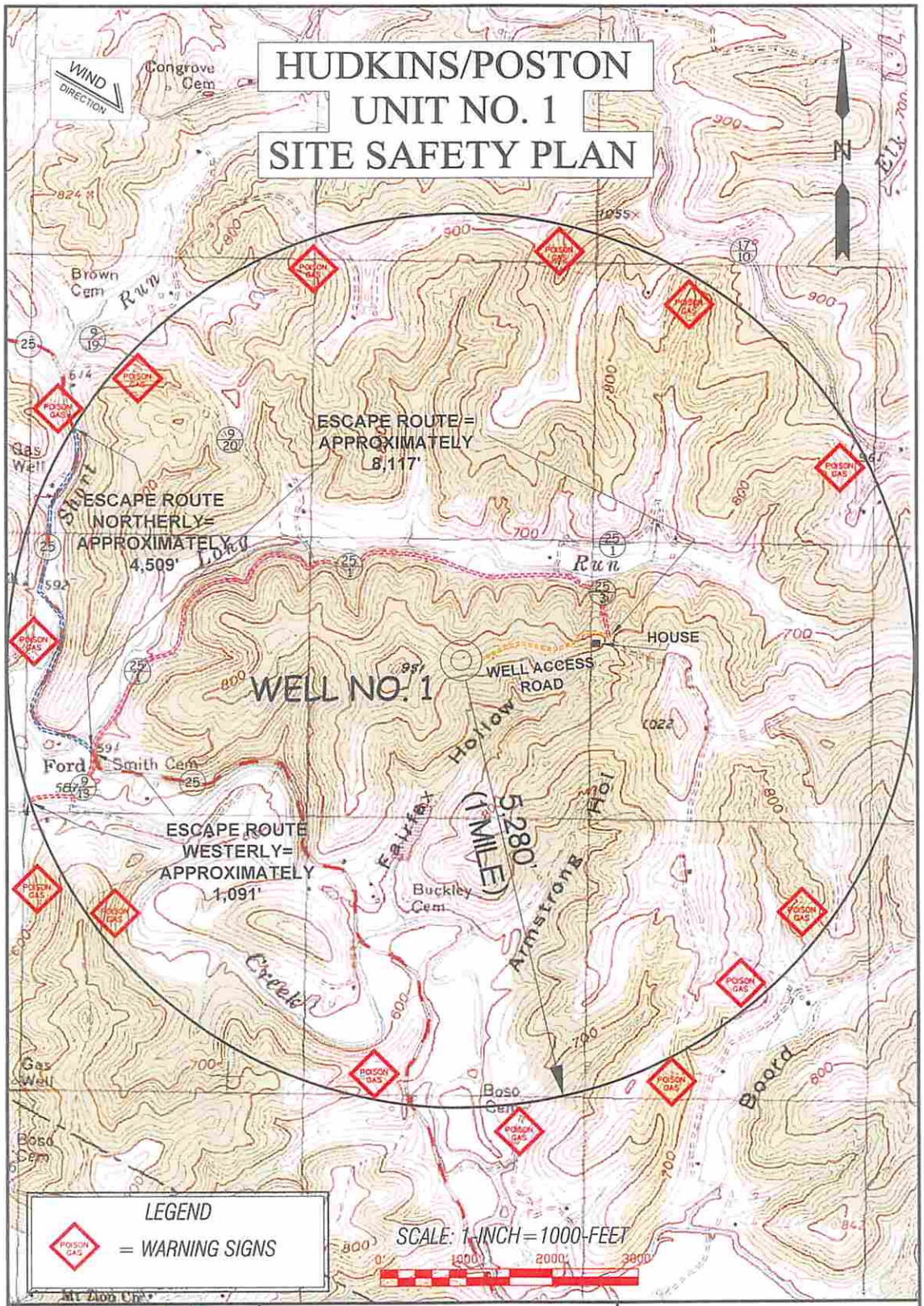
WV Dept. of Environmental Protection

10701746

EVACUATION PLAN



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K.D.W.	7657	02/21/14	7657SAFETYPLAN1R.DWG

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POND CREEK, WV 7.5' QUAD.

COUNTY	DISTRICT	TAX MAP–PARCEL NO.
WOOD	HARRIS	590–B

OPERATOR:
PENNECO OIL COMPANY
6608 ROUTE 22
DELMONT, PA 15626

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MAR 31 2014

Evacuation of General Public

The procedure to be used in alerting nearby persons in the event of any occurrence that could pose a threat to life or property will be arranged and completed with public officials in detail, prior to drilling into the hydrogen sulfide formations.

In the event of an actual emergency, the following steps will be immediately taken:

1. Penneco Oil Company representative will dispatch sufficient personnel to immediately warn each resident and transient's down-wind within radius of exposure from the well site. Then warn all residents in the radius of exposure. Additional evacuation zones may be necessary as the situation warrants.

2. The Penneco Oil Company's representative will immediately notify proper authorities, including the sheriff's office, highway patrol, and any other public officials as described above and will enlist their assistance in warning residents and transients in the calculated radius of exposure.

3. The Penneco Oil Company's representative will dispatch sufficient personnel to divert traffic in the vicinity away from the potentially dangerous area. A guard to the entrance of the well site will be posted to monitor essential and non essential traffic.

4. General:

   A. The area included within the radius of exposure is considered to be the zone of maximum potential hazard from a hydrogen sulfide gas escape. Immediate evacuation of public areas, in accordance with the provisions of this contingency plan, is imperative. When it is determined that conditions exist which create an additional area (beyond the initial zone of maximum potential hazard) vulnerable to possible hazard, public areas in the additional hazardous area will be evacuated in accordance with the contingency plan.

   B. In the event of a disaster, after the public areas have been evacuated and traffic stopped, it is expected that local civil authorities will have arrived and within a few hours will have assumed direction of and control of the public, including all public areas. The Penneco Oil Company will cooperate with these authorities to the fullest extent and will exert every effort by careful advice to such authorities to prevent panic or rumors.

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MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

C. Penneco Oil Company will dispatch appropriate management personnel at the disaster site as soon as possible. The company's personnel will cooperate with and provide such information to civil authorities as they might require.

D. One of the products of the combustion of hydrogen sulfide is sulfur dioxide (SO_2). Under certain conditions this gas may be equally as dangerous as H_2S. A pump type detector device, which determines the percent of SO_2 in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO_2 detector should be utilized to check concentrations in the proximity of the well once every hour, or as necessary and the situation warrants. Also, if any low areas are suspected of having high concentrations, personnel should be made aware of these areas, and steps should be taken to determine whether or not these low areas are hazardous.

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

SAFETY MEETING SCHEDULE

DATE	Number Of Workers Attended	SAFETY TOPIC DISCUSSED – Hudkins/Poston Unit # 1

Received

MAR 3 1 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

LIST OF EMERGENCY PHONE NUMBERS

Penneco Oil Company

	Office Phone	Cell Phone
Penneco Oil Company **6608 Route 22** **Delmont, PA. 15626**	**(724)-468-8232**	
Penneco Manager: Bill Baughman	**(724)-640-5213**	
Penneco Drill Supervisor: Shannon Johnson	**(412)-784-1927**	**(412)-657-5619**

Drilling Contractor	**Office Phone**	**Cell Phone**
Petty Oilfield Services, Inc		
Joseph Petty, Principal	(304)-824-3432	

Hydrogen Sulfide Safety Technicians

Total Safety US, Inc. 2445 West Pike Street Suite 200 Houston, PA 15342	Primary Call #724-745-1919	Phone: 724-745-1919 Fax: 724-745-6088
Total Safety US, Inc. 2445 West Pike Street Suite 200 Houston, PA 15342		Phone: 724-745-1919 Cell: 412-737-3950
H2S RELEASE CALL:	**Derek Kaiser**	Work Cell: 412-737-3950 Cell: 412-737-3950

Hospitals (911)

Camden Clark Memorial Hospital **800 Garfield Avenue** **Parkersburg, WV. 26101**	**Main Phone Number** **(304)-424-2111**	**Phone:** **(304)-424-2111**

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MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Ambulance Services (911)

Life Ambulance Service 3602 E. 7th Street Parkersburg, WV. 26104	Office Dispatch	(304)-485-5433
St. Josephs Ambulance Service PO Box 33 Parkersburg, WV. 26102	Office Dispatch	(304)-424-4473

State Police – 911
Local Police – 911
Fire Department – 911

West Virginia State Police 3828 Staunton Turnpike Parkersburg, WV. 26104	Office Number (Dispatcher) Emergency	Phone (304)-420-4600 911
Wood County Sheriff Third floor, One Government Square, Parkersburg, WV. 26104	Office Number (Dispatcher) Emergency	Phone (304)-424-1834 911
East Wood Volunteer Fire Department PO Box 6 Davisville, WV. 26142	Office Number Emergency	Phone (304)-422-4410 911

State Agencies

West Virginia – Department of Environmental Protection Oil and Gas Management 601 57th Street, SE Charleston, WV 25304	Customer Service Chief: James Martin	Phone (304) 926-0450 Fax (304) 926-0452
West Virginia Department of Environmental Protection Division of Air Quality 601 57th Street, SE Charleston, WV 25304	Phone Number	(304) 926-0499 Ext. 1227

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Driving Directions

Hudkins/Poston #1

LAT / LONG (NAD 27): 39.09701 / 81.69912

DRIVING DIRECTIONS FROM Charleston, WV.

1). Follow signs for I-64 W/I-77 N and merge onto I-64 W/I-77 N, Continue to follow I-77 N, about 47.6 miles.

2). Take Exit 146 for W. Virginia 2 (South Toward Silverton/Ravenswood, about 0.2 miles.

3). Turn left onto US-33 W/Co. Rd. 56/1/Old WV.56. Continue to follow US-33 W, About 2.4 miles.

4). Turn Right onto US-33W/W. Virginia 678 N. Continue to follow W. Virginia 68 N., About 15.0 miles.

5). Turn Right onto Co. Route 25/Pond Creek Rd, about 2.3 miles.

6). Turn right onto Co. Route 25/1/Long Run, About 0.8 miles.

7). Turn right onto Co. Route 25/3, About 1.0 miles.

8). Well road will be on the right, About 1,800 ft to the well site.

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MAR 31 2014

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WV Dept. of Environmental Protection

HUDKINS-POSTON UNIT 1
PROPOSED CASING PLAN AND SETTING DEPTH

	DIAMETER	HOLE SIZE	SETTING DEPTH	GRADE
CONDUCTOR:	20"	24"	30'	0.375 wall, 81.3#, BTC MC50 1,640# internal yield, 890,000# joint strength
SURFACE: (FRESH WATER)	16"	18.75"	350'	0.375 wall, 65.0#, ST&C, H40 pipe, H40 cpl., 1,640# int. yield 710,000# joint strength
COAL PROTECTION: (NO COAL)	11.75"	15"	1,650'	0.333 wall, 42.0#, ST&C, H40 pipe H40 cpl., 1,980# internal yield 307,000# joint strength
INTERMEDIATE:	8.625"	10.25"	4,630'	0.352 wall, 32.0#, ST&C, J55 pipe K55 cpl., 3,930# internal yield 372,000# joint strength
PRODUCTION:	4.50"	7.875"	5,700' & above	0.220 wall, 10.5#, ST&C, MAV65 K55 cpl., 5,560# internal yield 140,000# joint strength
			below 5,700'	0.25 wall, 11.6#, LT&C, MEIGHTY pipe, 7,780# internal yield, 201,000# joint strength,
			or,	
				0.304 wall, 17#, LT&C, N-80 pipe, N-80 cpl., 7,740# internal yield, 348,000 joint strength
TD HOLE:			9,600'	

Purpose: To drill and complete in Trenton-Black River Formation

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MAR 31 2014

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Geologic Prognosis

ESTIMATED LOG
Hudkins/Poston Unit No. 1, 47-107-0____
Harris District, Wood County, WV

Elevation (Ground): 843', 853' KB

Formation Tops:	Depth	Thickness	Pay/Show
Big Lime	1664'	45'	-
Big Injun	1709'	462'	-
Sunbury Shale	2235'	18'	poss Sg
Berea	2253'	4'	poss Sg/So
Lo Huron undiff.	2257'	1,107'	poss Sg 2,989' 3,001'
Lower Huron	3,364'	533'	poss Sg 3,430' 3,595'
Java Fm.	3,897'	385'	
Rhinestreet Sh.	4,282'	193'	poss Sg
GAS CHECK	4,480'		
Onondaga Ls.	4,475'	96'	poss Sg
Oriskany Ss.	4,571'	30'	poss Sg/pay
Helderberg	4,601'	196'	-
GAS CHECK	4,700'		
Salina	4,797'	535'	-
Newburg Ss.	5,332'	25'	poss Sg/pay
McKenzie	5,357'	298'	poss Sg 5,469'
GAS CHECK	5,525'		
Big Six Ss.	5,655'	34'	poss Sg
Rose Hill Sh.	5,689'	272'	-
Tuscarora Ss Grp	5,961'	210'	poss Sg 6,077'
Juniata Fm.	6,171'	505'	-
Martinsburg Sh.	6,676'	1,063'	-
Utica Sh.	7,739'	145'	poss Sg/So
GAS CHECK	7,900'		
Trenton Ls.	7,884'	145'	poss Sg/So
Black River Grp.	8,029'	1,400'	poss Sg/So
Total Depth		9,600'	Trenton/Black River

Possible freshwater flows: 129', 244', 281'
Possible salt water flows: 611', 764',982', 1,162', 1,321', 1,504, and 1,598'

Logging Program:

Gamma Ray: TD to Surface
Temperature: TD to csg. seat
Dual Induction: TD to csg. seat
Compensated Density: TD to casing seat
Sidewall Neutron Porosity: TD to casing seat

Note: 2.68 Matrix Density from csg seat to top Onondaga, 2.71 gm/cm3 from Onondaga Top
Fluid Density air filled hole: 1.00

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MAR 31 2014

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WV Dept. of Environmental Protection

Other: Mud Log: 4,300' to TD
Samples: every 10 feet from 4425' to 4610'; 5,270' to 5,700', 5,930' to 6,200'; 7,680' to TD

Casing Program:

Conductor: 20", 30' Range 3, 8 round, 81.30 lb., BTC, 0.375 wall Grade MC50 pipe

Surface: 16", 350' Range 3, 8 round 65.0 lb., ST&C, 0.375 wall Grade H40 pipe, H40 cpl.

Coal Protection: 11.75", 1,650', Range 3, 8 round, 42.0 lb., ST&C, 0.333 wall, Grade H40 pipe, H40 cpl.

Intermediate: 8 5/8", 4,630' Range 3, 8 round 32.0 lb., ST&C, 0.352 wall Grade J55 pipe, K55 cpl

Production Casing: 4 1/2", 9,550' Range 3, 8 round, 11.6 lb., LT&C, 0.25 wall, M-80 for completion intervals below 5,700'; or
4 1/2", 6,200' Range 3, 8 round, 10.5 lb, ST&C, Grade MAV65 pipe, K55 cpl. for completions above 5,700'.

Optional: 5 1/2" casing, 9,550 feet Range 3, 8 round, 17 lb., LT&C, 0.304 wall, N-80 pipe, N-80 cpl. for Trenton/ Black River completions.

Tubing: As per orders.

SERVICES:

Cement and Cementing:	**Universal Well Services:** **Brad Rowley, Engineer** **Cell: (814) 952-0126** **Office: (814) 938-2951**
Electric Logging:	**Weatherford:** **Dave Sommerville, Sales Engineer** **Office: (724) 354-3090** **Cell: 9724) 388-2577**
Pipe and Supplies:	**McJunkin-Red Man Corporation:**
Buckhannon yard: **Indiana Office:** **Don Hudson; cell**	**(304) 472-3565** **(724) 349-6823** **(412) 289-2444**
Mud Logging:	**Geosearch Logging:**
H2S Safety: **Derek Kaiser: District Manager**	**Total Safety** **(724) 745-1919 Office** **(412) 737-3950 cell**

CONTACTS:

Oil and Gas Inspector:	**JAMIE STEVENS: (304) 206-7775**
Rig Phone:	_____
PENNECO:	**Office: (724)-468-8232** **Fax: (724) 468-8230**
Manager: Bill Baughman	**Office: (724) 468-8232** **Cell: (724) 640-5213**
Geologist: Shannon Johnson	**Cell: (412) 657-5619** **Home: (412) 784-1927**
MOUNTAIN V: **Mike Shaver , President**	**Office: (304) 842-6320** **Mobile (304) 203-7550** **Pager: (304) 987-7550**

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WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator	Penneco Oil Company	494460033	Wood	Harris	Pond Creek 7.5'
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: Hudkins/Poston Unit #1 3) Elevation: 843'
4) Well Type: (a) Oil_____ or Gas X
(b) If Gas: Production X / Underground Storage_____
Deep X / Shallow _____
5) Proposed Target Formation(s): Trenton/Black River Proposed Target Depth: 9600'
6) Proposed Total Depth: 9600 Feet Formation at Proposed Total Depth: Trenton/Black River
7) Approximate fresh water strata depths: 129' 244' 281'
8)Approximate salt water depths: 611' 764' 982' 1162' 1321' 1504' 1598'
9) Approximate coal seam depths: None
10) Approximate void depths,(coal, Karst, other): None
11) Does land contain coal seams tributary to active mine? No
12) Describe proposed well work in detail Purpose: To drill and complete in the Trenton-Black River Formation

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS Size	Grade	Weight per ft	FOOTAGE INTERVALS For Drilling	Left in Well	CEMENT Fill -up (Cu. Ft.)
Conductor	20"	MC-50	81.30#	30'	30'	CTS
Fresh Water	16"	H-40	65.0#	350'	350'	CTS
Coal	11 ¾"	H-40	42.0#	1650'	1650'	CTS
Intermediate	8 5/8"	J-55	32.0#	4630'	4630'	CTS
Production	4 ½"	MAV65	10.5#	9600'	9600'	By Rule 35 CSR 4-11.1
Tubing						
Liners						

Packers: Kind
Sizes _____ Depths Set

Optional 5 ½" casing, N-80 17lb 9600'

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MAR 31 2014

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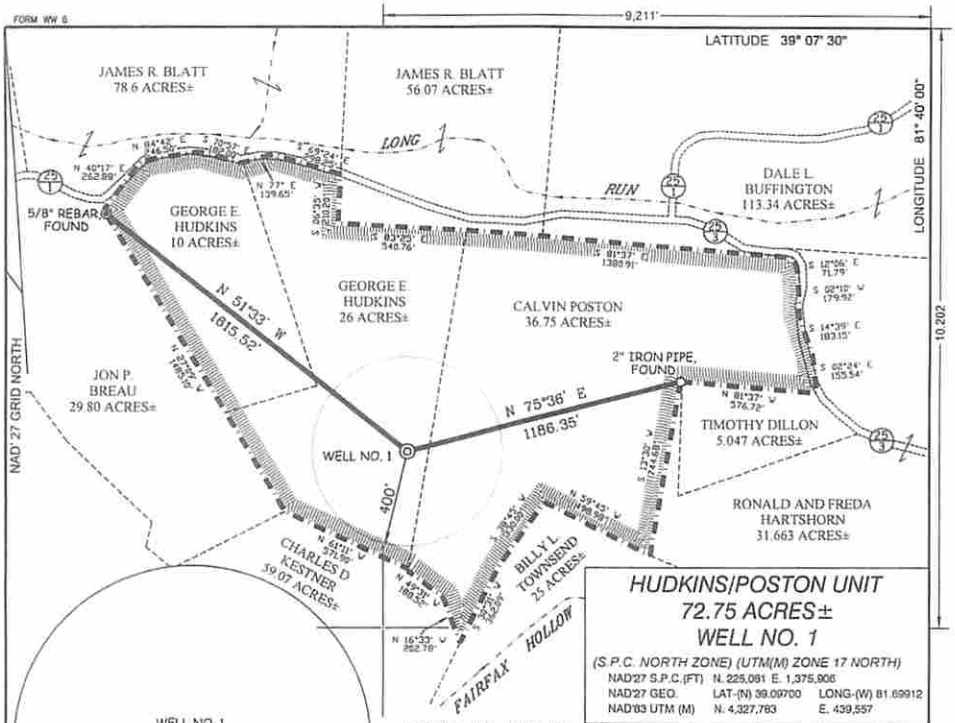
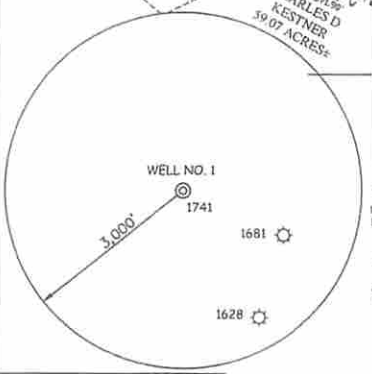
FORM WW-6



HUDKINS/POSTON UNIT
72.75 ACRES±
WELL NO. 1

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

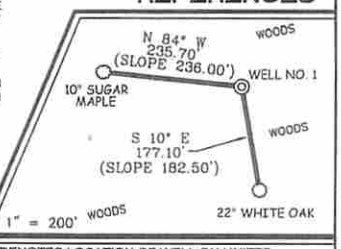
NAD'27 S.P.C.(FT)	N. 225,091 E. 1,375,906	
NAD'27 GEO.	LAT-(N) 39.09700	LONG-(W) 81.69912
NAD'83 UTM (M)	N. 4,327,763	E. 439,557



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD'27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/08/11.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DB 1035/213, AND DB 762/380.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WOOD COUNTY IN JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

REFERENCES



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING INC.
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-8424 WWW.SLSSURVEYS.COM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 18, 20 14
REVISED _____, 20 ____
OPERATORS WELL NO. HUDKINS/POSTON UNIT #1
API WELL NO. 47 — — (STATE / COUNTY / PERMIT)

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7657P1R
SCALE 1" = 500'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE)

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____ IF "GAS" PRODUCTION X STORAGE ____ DEEP X SHALLOW ____

LOCATION:
ELEVATION 843' WATERSHED LONG RUN AND FAIRFAX HOLLOW
DISTRICT HARRIS COUNTY WOOD QUADRANGLE POND CREEK 7.5'
SURFACE OWNER GEORGE E. HUDKINS ACREAGE 26±
ROYALTY OWNER GEORGE E. HUDKINS - 36 ACRES± / SANDRA LEE POSTON - 36.75 ACRES±
PROPOSED WORK: LEASE NO. ____
DRILL X CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ____ PERFORATE NEW FORMATION ____ PLUG AND ABANDON ____ CLEAN OUT AND REPLUG ____ OTHER ____
PHYSICAL CHANGE IN WELL (SPECIFY) ____ TARGET FORMATION TRENTON/BLACK RIVER
ESTIMATED DEPTH 9,600'

COUNTY NAME
PERMIT

WELL OPERATOR PENNECO OIL COMPANY
ADDRESS 6608 ROUTE 22, DELMONT, PA 15626
DESIGNATED AGENT STEPHEN K. SCHUMAN
ADDRESS P.O. BOX 842, MORGANTOWN, WV 26507

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MAR 31 2014

BOP Requirements

Description of BOP's To Be Installed on Each Casing String

Casing String – 20"
Rotating Head Only
Size – 20"
Pressure Rating – 500 psi

Casing String – 16"
BOP Type – Annular
Size – 16"
Pressure Rating – 5000 psi

Casing String – 11.75"
BOP Type - Annular
Size – 11.75"
Pressure Rating – 5000 psi

BOP Type – Double Rams
Size – 8.625"
Pressure Rating – 10000 psi

BOP Type – Double Rams
Size – 4 1/2"
Pressure Rating – 10000 psi

BOP Installation and Pressure Testing

1. The 20" Rotating Head will be installed when nippling up on the 20" casing. It will divert returns to the pit while air drilling this section.

2. The 11.75" BOP stack will be installed when nippling up on the 11.75" casing. The BOP will be pressure tested using a test plug. The BOP will be tested to a pressure of 250 psi low and 5000 psi high and the annular to 250 psi low and 2500 psi high prior to drilling out 8.625" casing.

3. When the 10000 psi BOP stack is in use, a 10000 psi upper and lower Kelly cock will be employed. They will be tested when the BOP stack is tested.

WWD&C Standard Operations Guidelines

1. BOPE configuration and testing will comply with State, Federal, or other governmental regulations and API RP 53 guidelines including accumulator testing for every well.
2. Pressure tests shall be performed to the maximum anticipated load.
3. BOP pressure test shall be five minutes low pressure (200 to 300 psi) followed by five minutes at a higher pressure.
4. Acceptance criteria will be less than 1% pressure loss during test period following stabilization. The rate of change of test pressure must be on a decreasing trend.
5. In offshore operations and where required by regulation or risk, all pressure tests will be recorded on a chart. Information detailing what was tested, time, date, and the authority accepting the test shall be recorded.
6. Gas is not allowed as a pressure testing fluid.
7. The Penneco Oil Company Drilling Supervisor will verify all pressure tests of BOP's, surface lines, seals, casings, and FIT tests. All tests are to be recorded on the IADC and Penneco daily drilling reports.

Pressure tests on the BOPE should be conducted at least:

1. Upon installation or prior to running the BOP subsea (stump test).
2. After disconnection or repair of any pressure containment seal in the BOP stack, choke line, choke manifold, or wellhead assembly, but limited to the affected component.
3. At a frequency defined by regulatory agency, but not to exceed 21 days.
4. Pressure and function tests, and the results of same, will be recorded on the Penneco Daily Report.
5. Deviations to the testing requirements must be approved by the area drilling or completion manager and in compliance with the necessary regulatory procedures for non-conformance.

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MAR 31 2014

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BOP Trained Personnel

Penneco Oil Company Representative
Penneco Oil Company Representative – Relief
Rig Supervisor
Rig Supervisor – Relief

Toolpusher
Day Tour Driller
Night Tour Driller
Relief Driller

WWD&C Standard Operations Guidelines

Well Control

1. Drilling Supervisors, Completion Supervisors, MODU OIM's, Drillers, and Tool Pushers (including all personnel that may be acting in these capacities) must hold a valid well control certificate from an accredited IWCF or WellCAP organization.
2. The working pressure and temperature rating of the BOPE and wellhead will exceed the maximum anticipated surface pressure and temperature. (Note: MASP to be based on Modified Chevron Method of calculating gas hydrostatic unless an alternative method is approved through risk assessment.)
3. BOPE rubber goods, studs, and nuts will be inspected prior to initial rig up. API ring gaskets will be inspected anytime API flanged connections are "broken" on onshore operations and always will be replaced with new gaskets on offshore operations.
4. Hole-filling and pit monitoring procedures will be established by site supervision for every rig operation. The established procedures will be documented and approved by Penneco and the D&C Contractor.
5. Circulating trip tanks are required for all drilling operations.
6. Rams must be installed to fit all sizes of drill pipe and work strings in use.
7. A drill string float valve (ported acceptable) will be installed in all drilling bottom hole assemblies (BHA's). Similar valves should be considered for well intervention and completion operations when reverse circulating is not required.
8. A pressure tested full opening safety valve (FOSV) and opening/closing wrench with appropriate threads or crossover subs for all connections will be available on the rig floor at all times.
9. Accumulator controls will always be left in a power position (i.e. open/closed: not neutral).
10. Surface casing, intermediate casing, and liner shoes will have formation integrity tests (FIT) or leak-off tests (LOT) completed unless risk assessment determines that a shoe test is not required.
11. The "hard shut-in procedure" shall be used on all kicks (other than diverter installations).
12. During drilling operations, slow circulating rates (SCR) should be obtained and recorded for each mud pump at least after BHA or mud weight changes and 500 feet of formation drilled.
13. Drilling BOP space-out and tool joint space-out diagrams shall be posted on the rig floor at all times.
14. Flow checks shall be conducted after drilling breaks, prior to tripping, after or during lost circulation events, pumping out, prior to nippling down BOP's, and any other time when anomalous pit volume readings are observed. Minimum flow check duration shall be 15 minutes. Pipe rotation during the flow check is recommended.
15. Diverters will be rigged up to facilitate installation of straight diverter lines.
16. When securing a well overnight when working "daylight only" operations, BOPE should be closed and locked.

Recording of Significant Drilling Events

A detailed record of significant drilling events will be recorded in Penneco Oil Company's well log book. The state inspector will be notified upon any significant drilling events including the encounter of Hydrogen Sulfide Gas.

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Wellhead Assembly

The Christmas tree section is to be designed depending upon the well completion type (i.e., 8.625", 4 ½", tubing, or combination thereof).

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MAR 31 2014

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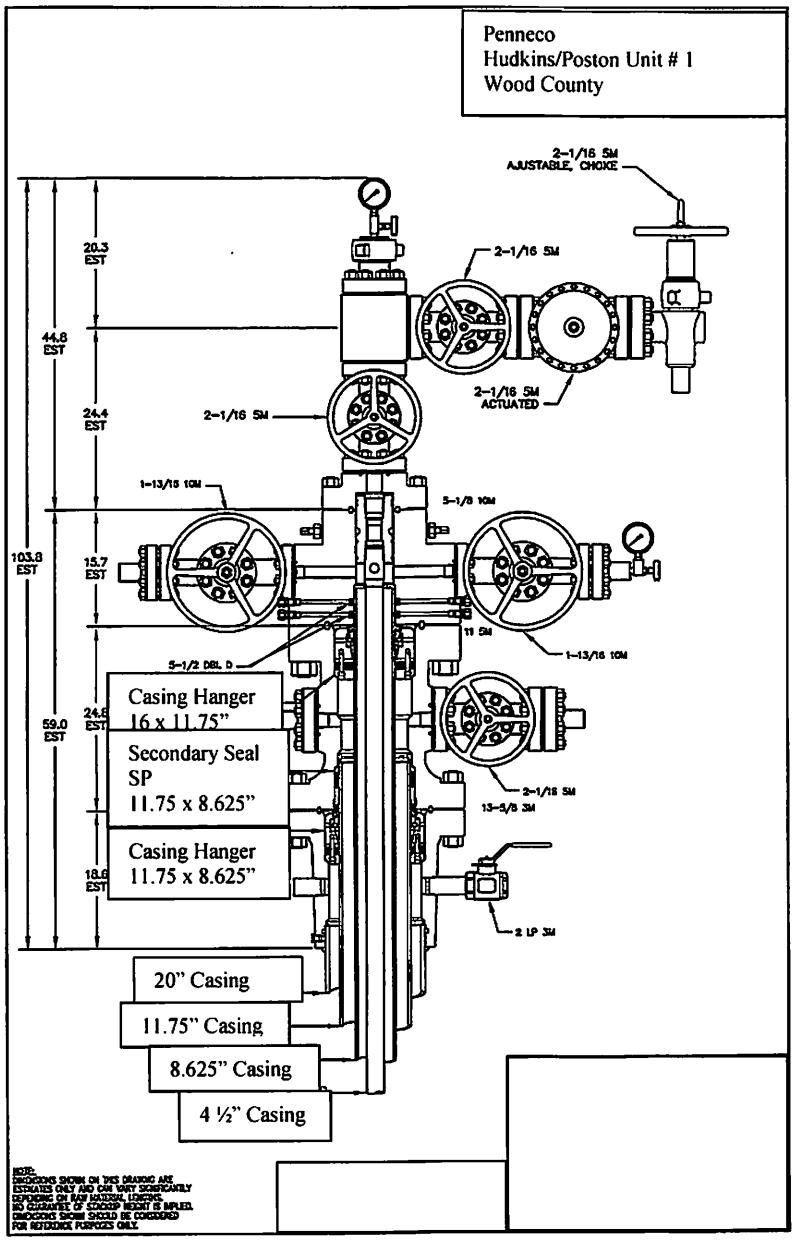
WELLHEAD SCHEMATIC



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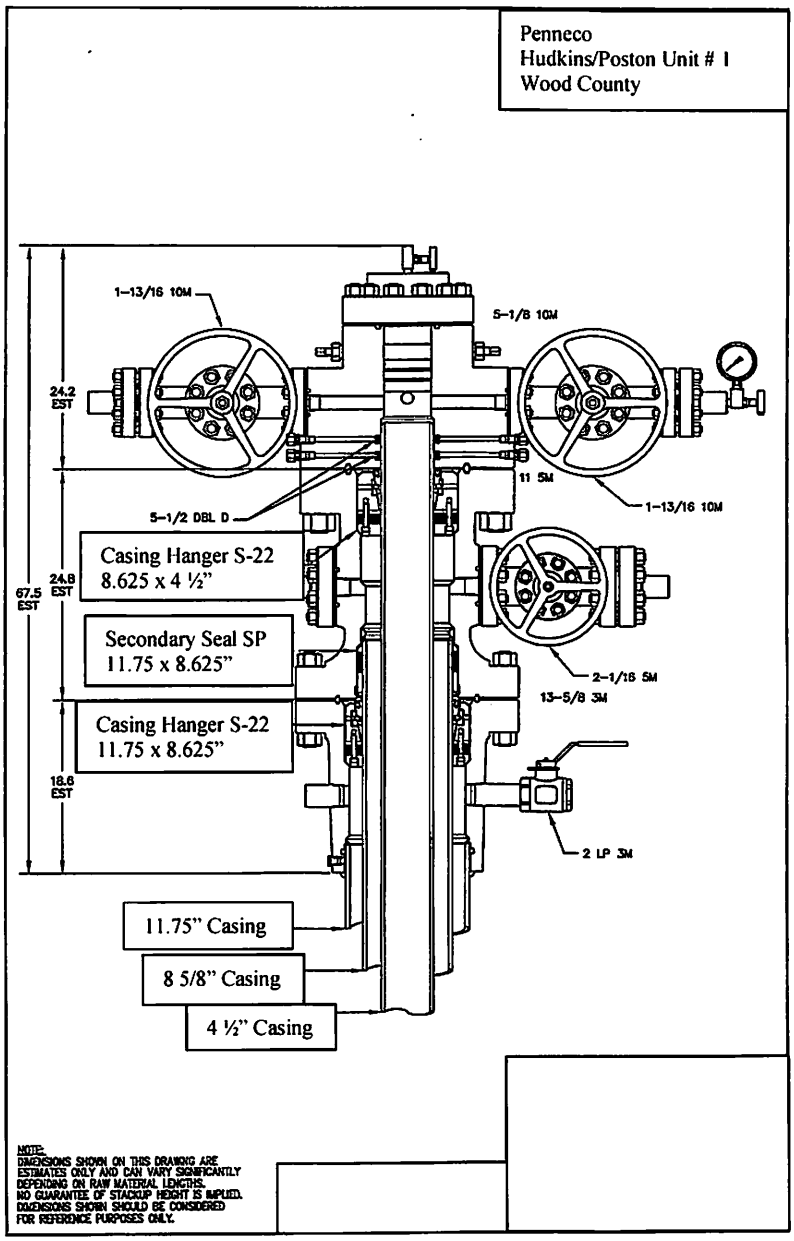

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MAR 31 2014

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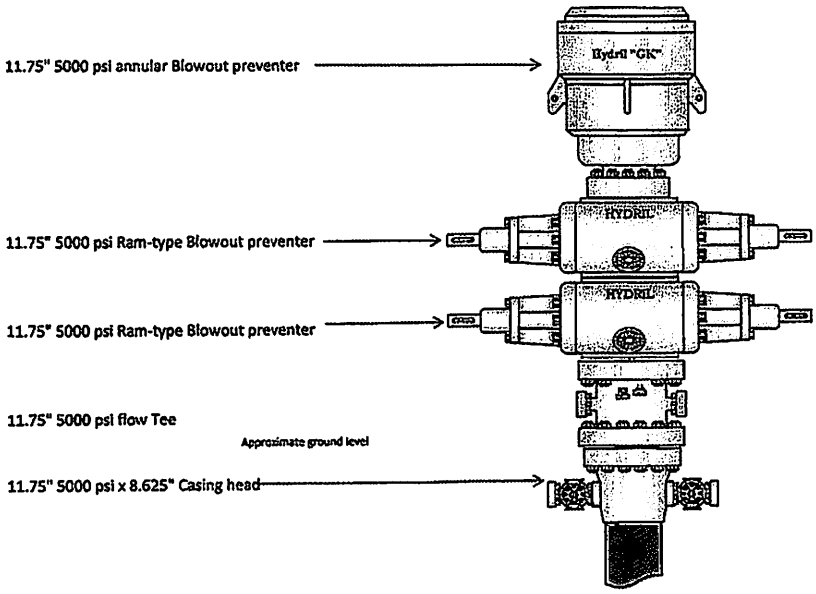
Well Flaring and Killing Operations

Penneco
Proposed Blowout Preventer Schematic
Hudkins/Poston Unit # 1
Wood County, West Virginia



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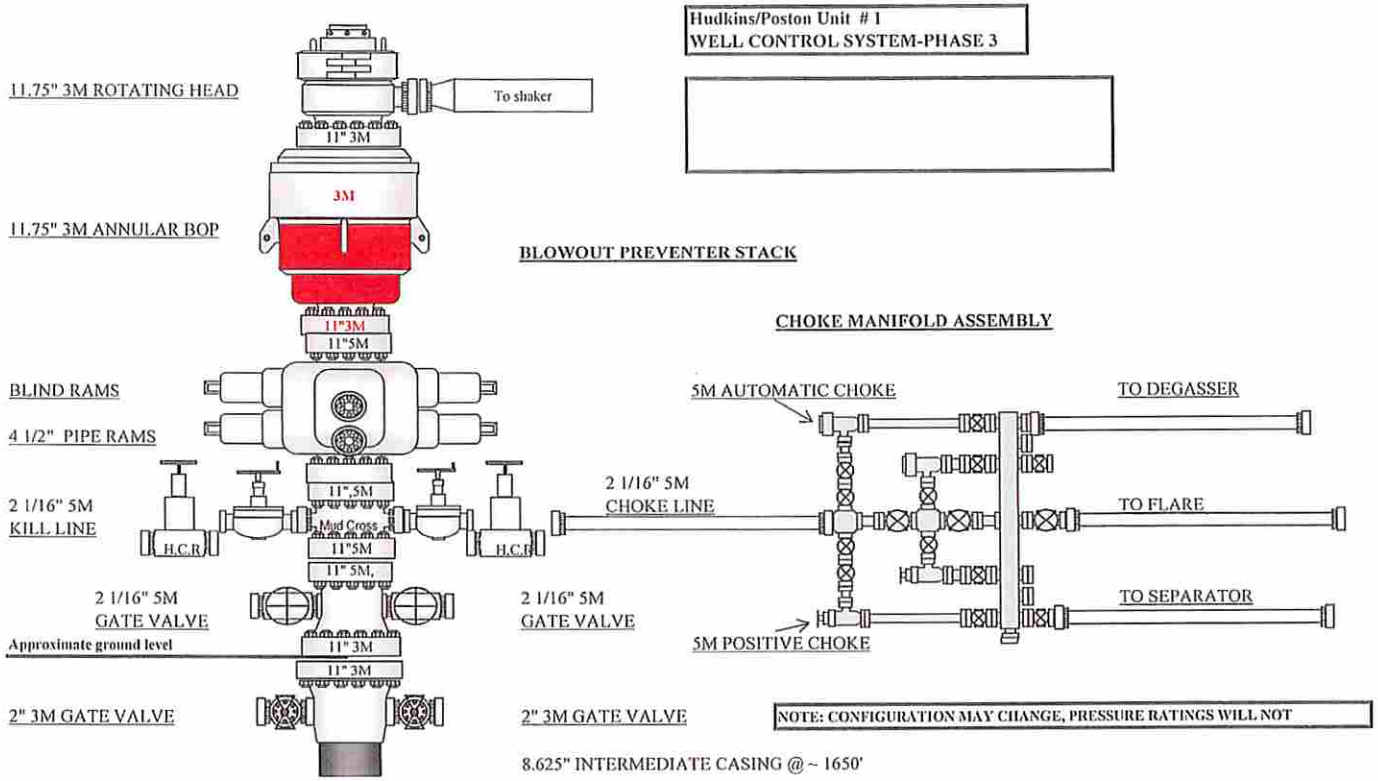
Hudkins/Poston Unit # 1
WELL CONTROL SYSTEM-PHASE 3



NOTE: CONFIGURATION MAY CHANGE, PRESSURE RATINGS WILL NOT

Flare Line Installation

1. The flareline will be 8" flanged pipe, at a minimum length of 100'.

2. 4 1/16" x 3 1/16" 10000 psi double choke manifold will be installed.

Ignition Methods and Notification

1. Primary – electronic igniter and/or propane torch.

2. Backup – Marine flare pistol

3. Notification of a flare will be given to the local fire department, if possible.

The duration of flaring operations shale last no longer than 7 to 10 days maximum.

Minimum Distance of Clearing of Flammable Material

All flammable material within a minimum distance of 50' will be cleared from around the burn pit.

Well Killing Operations

There will be enough dry chemicals on location to mix 1000 bbls of 12.5 ppg mud utilizing 450 bbl premix pit equipped with shear hopper. We anticipate the rig will have a 1000 bbl mud tank capacity.

Number and Type

There will be two centrifugal pumps serving as the primary mixing pumps. The mud pump will serve as the backup mixing pump. These pumps will use a hopper style mixer.

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MAR 3 1 2014

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H_2S Safety Services Equipment List

Hydrogen Sulfide Safety Package – Contained on location in Total Safety H_2S Equipment Trailer, unless otherwise noted:

Respiratory Safety Systems

QTY	DESCRIPTION
1	Trailer with 10 bottle cascade system and associated manifolds.
24	30-minute pressure demand SCBA with Pigtail (4 – Primary safe briefing area, 4 – Secondary Safe Briefing Area, 4 – floor with one of these for derrick man)
9	Hose Line 5-minute Work Unit w/Escape Cylinder (1 in derrick, 6 on drill floor, 1 in mud pit wt area, 1 in shaker area)
1	Breathing air cascade of 8 bottles w/regulator (with hoses and manifolds rigged up to rig floor)
2	Refill lines to refill 30-minute units on location
2	6-man manifold that can be rigged up to work area on floor, if needed
6	25 foot hose lines
2	50 foot hose lines
100	feet of hose line to rig cascade up to 12 man manifold on floor

Detection and Alarm Safety System

1	H_2S Fixed Monitor w/8 channels (Loc determined at rig up) suggested. (Mud pit area, shaker area, bell nipple area, floor/driller area, & outside quarters)
5	H_2S Sensors – located at rig floor, cellar, shakers, drillers console, and pit
3	Explosion Proof Alarms (Light and Siren)
2	Personal H_2S monitors
1	Portable Tri-Gas Hand Held Meter (O_2, LEL, H_2S)
1	Sensidyne/Gastech Manual Pump Type Detector
8	Boxes H_2S Tubes Various Ranges
2	Boxes SO_2 Tubes Various Ranges
1	Calibration Gas
1	Set Paper Work for Records: Training, Cal, Inspection, other
30	H_2S Clip-on personnel monitors (Cricket type or similar)

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MAR 31 2014

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Additional Safety Related Equipment

QTY	Description
2	Windsocks with Pole and Bracket
1	Set Well Condition Sign w/Green, Yellow, Red Flags
1	Primary Safe Briefing Area Sign
1	Secondary Safe Briefing Area Sign
6	Operating Condition Signs for Work Areas & Living Quarters
*	MSDS sheets shale be posted in the Supervisors trailer and will be readily available to anyone

Trailer with Breathing Air Cascade Will Also Include the Following
This equipment will be part of the H_2S equipment stored in the trailer, when on location

1	Oxygen Resuscitator
1	Flare Gun, with 10 cartridges
1	First aid kit
1	Eye wash station
1	Litter
2	Safety Harness w/150' Safety line

H_2S Training Statement

On site personnel will be trained in H_2S safety by independent training contractors. H_2S qualified personnel will be present during the drilling and/or presence of H_2S.

Completion and production activities will include Hydro-Fracing

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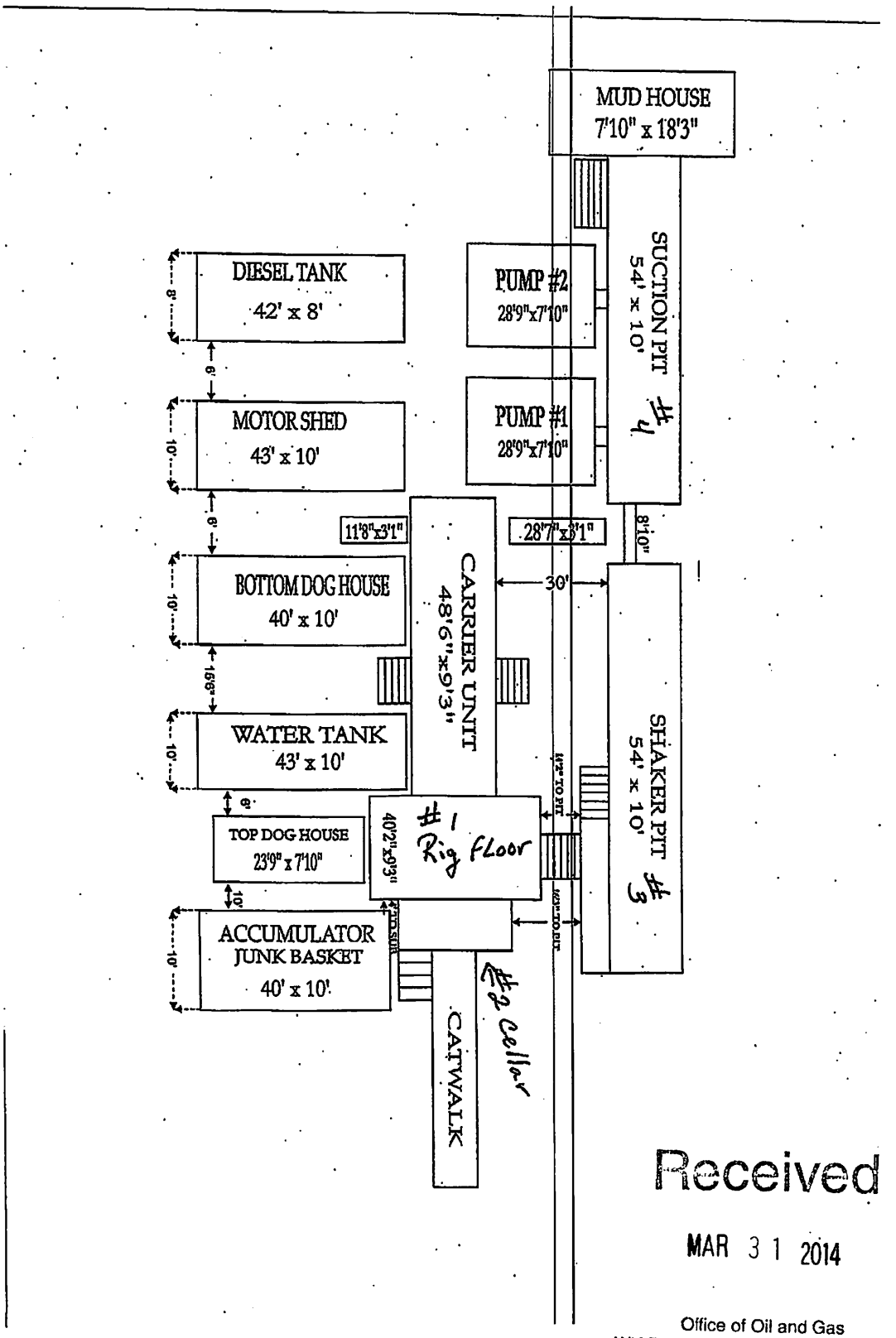
Deep Well Layout



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MAR 31 2014
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Listing of Names, Addresses and Telephone Numbers within 1 Mile radius of proposed well bore

Name:	Address:	Number:
Timothy Dillon Tax Map 590 Par. D1	605 Hugh St. Parkersburg, WV 26101	(304) 428-4222
Neva V. Smith Tax Map 590 Par. A	2508 Pond Creek Rd. Belleville, WV 26133	(304) 863-3511
Ronald W. Hartshorn Tax Map 590 Par. D	1908 Long Run Rd. Belleville, WV 26133	No Listing
Ronald E Stephens Tax Map 590 Par. A2	2478 Big Pond Creek Rd. Murraysville, WV 26164	(304) 863-3740
Charles D Kestner Tax Map 590 Par. B1	3091 Pond Creek Rd. Ravenswood, WV 26164	(304) 863-8832
Chester D Smith Tax Map 590 Par. B2	3206 10th Ave. Parkersburg, WV 26101	(304) 428-7004
Marvin Foggin Tax Map 540 Par. A	26 Short Run Rd. Belleville, WV 26133	(304) 863-6934
James R Blatt Tax Map 540 Par. C	829 S Long Run Rd. Belleville, WV 26133	(304) 489-1765
Dale Buffington Tax Map 540 Par. D	38 Turn Around Rd. Belleville, WV 26133	(304) 679-3792
Amro Mortgage Group INC. Tax Map 540 Par. C1	4242 N Harlem Ave. Harwood Hts, IL 60706	No Listing
Gene Hoschar Tax Map 540 Par. C1.1	2201 Homewood Rd. Parkersburg, WV 26101	(304) 863-8829
David Starcher Tax Map 640 Par. A	2796 Pond Creek Rd. Belleville, WV 26133	(304) 863-6983
Daniel Thomas Tax Map 640 Par. B	P.O. Box 42 Belleville, WV 26133	(304) 863-3135
Billy L. Townsend Tax Map 640 Par. C	3468 Big Pond Creek Rd. Ravenswood, WV 26164	(304) 863-5034
Jimmy Townsend Tax Map 640 Par. C1	3010 Pond Creek Rd. Belleville, WV 26133	(304) 863-5594
Billy L. Townsend Tax Map 640 Par. C2	3468 Big Pond Creek Rd. Ravenswood WV, 26164	(304) 863-5034
Mark A. Townsend Tax Map 640 Par. C4	1665 Big Pond Creek Rd. Murraysville, WV 26164	No Listing
William D. Smith Tax Map 580 Par. G	5572 Pond Creek Rd. Murraysville, WV 26164	(304) 863-8100
Patricia S. Deal Tax Map 580 Par. H	P.O. Box 149 Waverly, WV 26184	(304) 464-5381
Virgil F. Anderson Tax Map 580 Par. I	2285 Pond Creek Rd. Belleville, WV 26133	(304) 440-4395
Linda L. Lemon Tax Map 580 Par. L	1488 Pond Creek Rd. Belleville, WV 26133	(304) 863-9507

Received
MAR 31 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

10701746

Name:	Address:	Phone:
Sharon Smith Tax Map 580 Par. G2	1939 Pond Creek Rd. Belleville, WV 26133	(304) 863-8480
Michael D. Stalnaker Tax Map 580 Par. G3	1623 Pond Creek Rd. Belleville, WV 26133	(304) 863-9616
David B. Vance Tax Map 580 Par. G4	1824 Pond Creek Rd. Belleville, WV 26133	No Listing
Ford Chapel Church Tax Map 580 Par. G5	RR 1 Box 60-A Belleville, WV 26133	(304) 863-5554
Billy G. Stewart Tax Map 580 Par. G6	1168 Greenbrier Creek Rd. Fort Gay, WV 25514	(304) 429-4018
Joyce Floyd Tax Map 580 Par. I1	2289 Pond Creek Rd. Belleville, WV 26133	(304) 863-3586
Ronald Friesenhengst Tax Map 580 Par. I2	2071 Pond Creek Rd. Belleville, WV 26133	(304) 863-5779
Jason K Parsons Tax Map 580 Par. I3	2277 Pond Creek Rd. Belleville, WV 26133	(304) 863-5370
Sherri L. Thomas Tax Map 580 Par. I1A	2065 Pond Creek Rd. Belleville, WV 26133	(304) 863-6947
Inez E. Flinn Tax Map 630 Par. C	12 Oak Ln. Mineral Wells, WV 26150	(304) 489-2205
Herbert Galland Tax Map 650 Par. C	3697 Pond Creek Rd. Belleville, WV 26133	(304) 863-6521
Wanda Flinn Tax Map 650 Par. D	2038 Big Pond Creek Murraysville, WV 26164	No Listing
Roy G. Marcum Tax Map 600 Par. J	4023 5th Huntington, WV 25710	(304) 781-5278
Jason M Brookover Tax Map 600 Par. M	44 Weatherby Ln. Washington, WV 26181	(304) 863-9877
Ronald Hartshorn Tax Map 600 Par. O & R	1908 Long Run Rd. Belleville, WV 26133	No Listing
Lewis R. Consigli Tax Map 600 Par. Q	1600 28th St. Vienna, WV 26105	(304) 295-5561
Virgil W. Amos Tax Map 660 Par. C	502 Otto Run Murraysville, WV 26153	No Listing
Peggy Lee Smith Tax Map 660 Par. F	1850 Lee Creek Rd. Belleville, WV 26133	(304) 863-5694
Ron G. Quillen Tax Map 550 Par. E	3095 Wolfe Run Rd. Belleville, WV 26133	(304) 863-0383
Michael W. Alexander Tax Map 550 Par. C1	3070 Wolfe Run Rd. Belleville, WV 26133	(304) 863-8979
Duane N. Trembly Tax Map 550 Par. D2	1106 28th St. Vienna, WV 26105	(304) 295-8806

Received

MAR 31 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

10701748

CERTIFICATE OF CONSENT AND EASEMENT

We, the undersigned, for valuable considerable, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Harris District, Wood County, State of West Virginia, shown on the attached plat or survey, or hereby consent and grant an easement, pursuant to West Virginia Code, Section 22C-9-7 (b) (4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to **Penneco Oil Company** it successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

SMITH LAND SURVEYING INC
PO BOX 150
GLENVILLE, WV 26351-0150

Executed this 26 day of Aug, 2014.

George E. Hudkins

Joan M. Hudkins

State of West Virginia

County of Gilmer

I, Deanna S. McVicker, a Notary Public in and for the aforesaid County and State, do hereby certify that George E. Hudkins, whose name is signed to the writing above, bearing date on the 26th day of August, 2014, has this day acknowledged the same before me, in my said County and State.

Given under my hand this 26th day of August, 2014.

Deanna S. McVicker
Notary Public

My Commission expires on: Jan. 22, 2023

OFFICIAL SEAL
Notary Public, State of West Virginia
DEANNA S McVICKER
4230 Dusk Camp Run Road
Sand Fork, WV 26430
My commission expires January 22, 2023

State of West Virginia

County of Gilmer

I, Deanna S. McVicker, a Notary Public in and for the aforesaid County and State, do hereby certify that Joan M.. Hudkins, whose name is signed to the writing above, bearing date on the 26th day of August, 2014, has this day acknowledged the same before me, in my said County and State.

Given under my hand this 26th day of August, 2014.

Deanna S. McVicker
Notary Public

My Commission expires on: Jan. 22, 2023

OFFICIAL SEAL
Notary Public, State of West Virginia
DEANNA S McVICKER
4230 Dusk Camp Run Road
Sand Fork, WV 26430
My commission expires January 22, 2023

This instrument prepared by:
Penneco Oil Company
Land Department
6608 Route 22
Delmont, PA 15626

Mark Rhodes
WOOD County 03:35:41 PM
Instrument No 0578968
Date Recorded 08/26/2014
Document Type EASMT
Pages Recorded 1
Book-Page 1218-900
Recording Fee $5.00
Additional $6.00

10701748

RECEIVED AUG 29 2014.

CERTIFICATE OF CONSENT AND EASEMENT

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SMITH LAND SURVEYING INC
PO BOX 150
GLENVILLE, WV 26351-0150

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Joan M. Hudkins

State of West Virginia

County of Gilmer

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Notary Public, State of West Virginia
DEANNA S McVICKER
4230 Dusk Camp Run Road
Sand Fork, WV 26430
My commission expires January 22, 2023

State of West Virginia

County of Gilmer

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Given under my hand this 26th day of August, 2014.

Deanna S. McVicker
Notary Public

My Commission expires on: Jan. 22, 2023

OFFICIAL SEAL
Notary Public, State of West Virginia
DEANNA S McVICKER
4230 Dusk Camp Run Road
Sand Fork, WV 26430
My commission expires January 22, 2023

This instrument prepared by:
Penneco Oil Company
Land Department
6608 Route 22
Delmont, PA 15626

Mark Rhodes
WOOD County 03:35:41 PM
Instrument No 857868
Date Recorded 08/26/2014
Document Type EASMT
Pages Recorded 1
Book-Page 1218-900
Recording Fee $5.00
Additional $6.00

SLS SMITH LAND SURVEYING, INC.
P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX (304) 462-5656

LETTER OF TRANSMITTAL

DATE	JOB NO.
8/29/14	7657
ATTENTION: Cindy Raines	
RE: Hudkins/Poston #1	

TO: WV DEP Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1			Original Recorded Certificate of Consent and Easement for Penneco Hudkins/Poston #1

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 20 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO SLS Files

SIGNED: Deanna McVicker

If enclosures are not as noted, kindly notify us at once.

10201748
Hold until 8/28 then return
CRaines

Raines, Cindy J

From: Raines, Cindy J
Sent: Thursday, August 21, 2014 9:37 AM
To: 'dmcvicker@slssurveys.com'
Cc: Smith, Gene C
Subject: RE: Penneco - Hudkins/Poston #1

As a follow up to our telephone conversation, the Consent and Easement for the Hudkins/Poston application has not been received. Please submit the signed, recorded C& E within the next week or the incomplete application will be returned unissued.

Thank you,
Cindy Raines

From: dmcvicker@slssurveys.com [mailto:dmcvicker@slssurveys.com]
Sent: Friday, July 11, 2014 7:35 AM
To: Raines, Cindy J
Subject: RE: Penneco - Hudkins/Poston #1

What is a recorded C&E? I don't know what you mean.

Deanna McVicker
Smith Land Surveying, Inc.
dmcvicker@slssurveys.com

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS
PROJECT MGMT.
SLS
ENGINEERS
ENVIRONMENTAL

226 West Main St
P.O. Box 150
Glenville, WV 26351
(304) 462-5634

56065 Dilles Bottom Road
Shadyside, OH 43947
(740) 671-9911

HONESTY, INTEGRITY, QUALITY

From: Raines, Cindy J [mailto:Cindy.J.Raines@wv.gov]
Sent: Thursday, July 10, 2014 9:11 AM
To: dmcvicker@slssurveys.com
Subject: Penneco - Hudkins/Poston #1

I don't see that you submitted a recorded C&E for the above referenced application. Am I overlooking it?

Cindy Raines
Oil and Gas Conservation Commission
601 57th Street, SE
Charleston, WV 25304