

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

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.



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:

- 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 Executive Assistant

Cindy Raines

WW - 2B (Rev. 8/10)

Depths Set

CK# 17911

Office of Oil and Gas

WV Dept. of Environn 03/06/2015

10701748

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

					107	2	21-
1) Well Operato	or: Penne	eco Oil C	ompany	494460033	Wood	Harris	Pond Creek 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Numb	er: Hudkir	ns/Poston Unit #1		3) Elevation:	843'	
4) Well Type: (a	a) Oil	or Ga	sX				
(i	o) If Gas:	Produ	ction _X_ / Und	erground Sto	rage		
		Deep	/ S	hallow			
6) Proposed To 7) Approximate	otal Depth fresh wa	: <u>9,650</u> ter strata	Trenton/Black Riv Feet F depths: 129', 244', 611', 764', 982', 1162'	Formation at F	Proposed Tota	get Depth: 9 al Depth: Trent	,600' on/Black River
9) Approximate	coal sea	m depths	s: None	=			
10) Approximat	te void de	pths,(coa	al, Karst, other):	None listed on	offset data		
(1) Does land	contain co	ai seam	s tributary to acti	ve mine? <u>N</u>	0		
,	•		d fracturing metho		ttach additiona	I sheets if nee	eded)
Orill and fracture s	timulate nev	w deep, co	nventional gas well				
13)		CA	SING AND TUE	ING PROGR	AM		· · · · · · · · ·
2 - •	SPECIFIC	-		FOOTAGE	INTERVALS	CEME	17 m Jhr
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	Ft
Conductor	20"	MC-50	81.3 #	30'	30'	стѕ	
Fresh Water	16"	H-40	65.0 #	350'	350'	CTS	1,190
Coal	11 3/4"	H-40	42.0 #	1650'	1650'	CTS	5
Intermediate	8 5/8"	J-55	32.0 #	4630'	4630'	CTS	i.
Production	4 1/2"	MAV65	10.5 #	9600'	9600'	310 sa	cks
Tubing						Rece	ived
Liners						11600	1000
Packers: Kind	d:					MAR 3	1 2014
Size	es:						

WW-2	2A
(Rev.	6-07)

1). Date:			
2.) Operator's Wel	Number	Hudkins/Poston Unit #1	
	State	County	Permit
3 \ A DI Wall No ·	47-	_	

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

4) Surface Ow	ner(s) to be served		5) (a) Coal Ope	erator	
(a) Name	George E. Hudkins	W	Name	•	
Address	1 Willoughby Drive		Address		
	Parkersburg, WV 26101				
(b) Name			_ (b) Coal O	wner(s) with Declaration	
Address			Name	George E. Hudkins	W
			Address	1 Willoughby Drive	
				Parkersburg, WV 26101	
(c) Name			Name		
Address			_ Address		
0) 1	50 v 20		- (-) 011	U De desette e	
6) Inspector	Jamie Stevens		- 10.0	essee with Declaration	
Address	105 Kentuck Road		_ Name		
T 1 1	Kenna, WV 25248		Address	·	
Telephone	304-206-7775				
In almaland in th				AKE NOTICE THAT:	to sutreet all and age
OR	ne lease or leases or	other continuing	contract or contra	acts by which I hold the right	to extract oil and gas
	ne information require	ed by Chapter 22	Article 6 Section	n 8(d) of the Code of West V	/irginia (see page 2)
				inia Code I have served cor	
				ugh on the above name	
		ce (Affidavit attac			
V <u> </u>			al receipt attache	d)	
		tice of Publicatio		V	
		hapter 22-6 and	35 CSR 4, and	I agree to the terms and co	onditions of any permit
issued under this		that I have ners	onally examined	and am familiar with the info	ormation submitted on
				y of those individuals imme	
obtaining the info	rmation, I believe tha	t the information	is true, accurate	and complete.	
l am awa				lse information, including the	possibility of fine and
imprisonment.				_11_ 1	
Officia	Seal	Well Operator	Penneco Oil Company Stephen K. Schuman	Shap Hours	y
Lois A I	e Of Wast Virginia	By: Its:	Designated Agent		
Bruceton Mills	andy Read s WV 26525	Address	6608 Route 22		
· · · · · · · · · · · · · · · · · · ·	es August 22, 2017	71441000	Delmont, PA 15626		
		Telephone	724-468-8232		
Subscribed and	sworn before me this	1846 day of	March	. 2014	10.
	V Bear	الشاة		Notary Public	Heceived
My Commission	Expires August	1 27 20	117	INOLATY Fublic	
Oil and Gas Privacy		- vayau			MAR 3 1 2014
TI - 0# 10!!	. C		auch ac name add	sees and phone number as a see	t of our regulatory duties

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 a protection depprivacyofficer@wv.gov

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County	Wood	Operator	Penneco Oil Company
	 	Operator well number	Hudkins/Poston Unit #1
	INSTRUCTION	ONS TO SURFACE OWNERS NAMED ON F	'AGE WW2-A
If the surface appeared on be the only of permits are v	e tract is owned by more the Sheriff's tax ticket or owner who will actually realid for 24 months. If you mediately if you know whom whote: NOTE:	page WW2A is applying for a permit from the than three persons, then these materials we the land or because you actually occupy the receive these materials.) See Chapter 2.2 ou do not own any interest in the surface tract ho it is. Also, please notify the well operator a YOU ARE NOT REQUIRED TO FILE ANY COLE COMMENTS AND OBTAIN ADDITIONAL	ere served on you because your name a surface tract. In either case, you may of the West Virginia Code. Well work t, please forward these materials to the and the Office of Oil and Gas.
	VV 25304	on	
Time Limits operator files be filed in pe be s ure of th handling. If y the planned w	and methods for filing his Application. You have been contacted work described in these ments must be in writing.	comments. The law requires these materials ve FIFTEEN (15) DAYS after the filing date to nail by the Chief's office by the time stated abour pos tmaster to ensure a dequate d elivery by the well operator and you have signed a naterials, then the permit may be issued at an ing. Your comments must include your name	o file your comments. Comments must nove. You may call the Chief's office to time or to ar range s pecial expedited "voluntary statement of no objection" to my time. e, address and telephone number, the
from the appl The (1) T 2) T 3) E	ication. You may add otl Chief has the power to de The proposed well work w The soil erosion and sedir Damage would occur to p	r and the approximate location of the propose her documents, such as sketches, maps or ph eny or condition a well work permit based on c vill constitute a hazard to the safety of persons ment control plan is not adequate or effective; ublicly owned lands or resources;	notographs to support your comments. comments on the following grounds: s.
5) T n If yo	The applicant has comminore of the rules promulg u want a copy of the p	ails to protect fresh water sources or supplies; itted a substantial violation of a previous per lated under Chapter 22, and has failed to abat permit as it is issued or a copy of the or	mit or a substantial violation of one or te or seek review of the violation".
<u>List</u>	ater to establish water qu	atories. The Office maintains a list of water uality prior to and after drilling. Contact the ClOLUNTARY STATEMENT OF NO OBJECTION	hief to obtain a copy.
Application for	eby state that I have read or a Well Work Permit on	d the instructions to surface owners and that Form WW2-A, and attachments consisting of at, and a soil and erosion plan, all for propo	I have received copies of a Notice and f pages 1 through including a work

FOR EXECUTION BY A NATURAL PERSON

a permit being issued on those materials.

described therein.

FOR EXECUTION BY A CORPORATION, ETC.

George & Hollen	Date	3/14/14	Company Name	
Signature			Ву	
George E Hudking			Its	Received
Print Name				MAR 3 1 2014 Signature Date

I further state that I have no objection to the planned work described in these materials, and I have no objection to

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County_Wood Operator Penneco Oil Company (Operator's Well Numbe	Hudkins/Poston Unit #1			
INSTRUCTIONS TO COA	AL OPERATOR, OWNE	ER, 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 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654					
	WAIVER				
The undersigned coal operatorlocation has examined this proposed well location, the well location has been added to work proposed to be done at this location, prequirements of the West Virginia Code and	cation. If a mine map e o the mine map. The u rovided, the well operat	exists which covers the area of well ndersigned has no objection to the for has complied with all applicable			
FOR EXECUTION BY A NATURAL PERSON	FOR EXE	ECUTION BY A CORPORATION, ETC.			
George & Hudling Date 3	Company Name By Its	Date			
	Sig	nature Date			

Received

MAR 3 1 2014

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

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 he reby a cknowledges 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 ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

By:Its:

Penneco Oil Company

Stephen K. Schuman, Designated Agent

MAR

Palabout.



WW-2B1
(5-12)

Well No.	Hudkins/Poston Unit #1
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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.

MAR 3 1 2014

NOTE: There appears to be 9 +/- potable water sources within 1,500', therefore tests will Office of Oil and Gas be offered and samples taken as required. WV Dept. of Environmental Protection

SEE ATTACHED

03/06/2015



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: / 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: Tour No. 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 2nd
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: Spacing Owner/Occupant:
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

7657 PENNECO Hudkins Poston,waterfinal.pg.1

	SpacingC				
Address: 346	8 Big Pond creek Rd. I	Ravenswood, WV	26164	Ph:	
Field Contact Da	ate: <u>///06/2014</u> Loca	ated: Yes	Date Located: 11/06	/2014 Source:	Water Well
If No, declined by v	rhoLe x Map 590, Parcels E e	etter/Notice Date:			
Address: 34 Field Contact D	Spacing (658 Big Pond creek Rd. 11/06/2014 Locutes Loc	Ravenswood, WV ated: Yes	26164 _Date Located: 11/06	Ph: 5/2014 Source:	
	x Map 590, Parcels E		151 11/10/2014 200		(SIG) 10/24/14
	Spacing(Dh	
	08 Pond creek Rd. Belle			Ph:	
	ate: 11/06/2014 Loc				
If No, declined by Comments: T	vho L x <i>Map 590, Parcel A</i>	etter/Notice Date	: 1st <u>11/06/2014</u> 2nd _	11/13/2014 Certified	(3rd) 10/24/14
	Spacing(0)			Ph: <i>(304)-863</i>	-6983
	ate: 11/13/2014 Loca				
If No, declined by v	rho Lox Map 590, Parcel B2	etter/Notice Date:			
	Spacing C			Ph: (304)-588	-6020
Field Contact Da	ate: 11/13/2014 Loca	ated: Yes	Date Located: 11/13		
Comments: <u>Ta</u>	x Map 540, Parcels C o	and DI			
Address:308	pacing C	30553	I	Ph:	
If No, declined by w	ite: <u>N/A</u> Loca ho <u>Calvin Poston</u> Le				
	x Map 590, Parcel C uer of Refusal Signed :	11/06/2014			
	· · · · · · · · · · · · · · · · · · ·				

7657 PENNECO Hudkins Poston, waterfinal, pg. 2

	// Sp	acing	Owner/0	Occupant:	George Hi	dkins		
Address:			Parkersburg, WI			Ph:		
Field Con			Located:		te Located:	N/A	Source:	Unknown
					_			ed (3rd) 10/24/14
			rcels B and B5					
			ertified letter as o	f: 12/09/201	4			
			•					-
Site:	<u>12</u> Sp	pacing	Owner/	Occupant: _	James Wh			
Address:			Rd. Stow, OH 44			Ph:		
			Located:					
				ice Date: 1st	11/06/2014 20	nd <u>////</u>	3/2014 Certifi	ed (3rd) 10/24/14
Comment		Map 590, Pe						
	No	response to c	ertified letter as	of: 12/09/20	14			
Cito	6.		0	3t:				
	<u>/3</u>	Jacing	Owner/	occupant.	Jon Breau	Ph:		
Address:			E Lake Placid, F		- :	_		
			Located:		te Located:_			
If No, decir	ned by wr	.0	Letter/Not	ice Date: 1st	11/06/2014 20	nd ////	3/2014 Certifi	ed (3rd) 10/24/14
Comment		Map 590, Pe		C 13/00/20				
	No i	response to c	ertified letter as	of: 12/09/20	14			
Site:	ı₄ Sp	acing	Owner/0	Occupant:	Ronald Ha	rtshorn		
Address:			Belleville, WV 2	_		Ph:		
Field Con			Located:		te Located:	N/A	Source:	Unknown
								ed (3rd) 10/24/14
		Map 590, Pc						(0,0)
			ertified letter as o	f: 12/09/201	1			
			Owner/0				age group inc	•
			e. Harwood High			_ Ph:		
			Located:					
If No, declin	ed by wh		Letter/Noti	ce Date: 1st	<i>11/06/2014</i> 2n	d <u>////</u>	2014 Certifie	ed (3rd) 10/24/14
Comments	-		rcel C1					
	No r	esponse to co	ertified letter as a	f: 12/09/201	4			
Site: /	6 Sp	acing	Owner/C	ccupant:	Dale Buffin	wion		
Address:	38 tu	n around Ro	Belleville, WV	26133		Ph:		
			Located:		e I ocated:	_	Source	Unknown
	ed by who	`	Letter/Natio	na Date: 1et	11/06/2014 20	A 11/12	12014 Contina	d (3rd) 10/23/13
If No, decline				ce Date: 1st _	<i>11/06/2014</i> 2n	d <u>////3</u>	/2014 Certifie	ed (3rd) 10/24/14
If No, decline	E Tax	Map 540, Pa				d <u>/1//3</u>	/2014 Certifie	d (3rd) 10/24/14

7657.PENNECO Hudkins Poston,waterfinal, pg 3

RECEIVED MAY 1 0 2014



P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5856

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

To Whom It May Concern:

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.

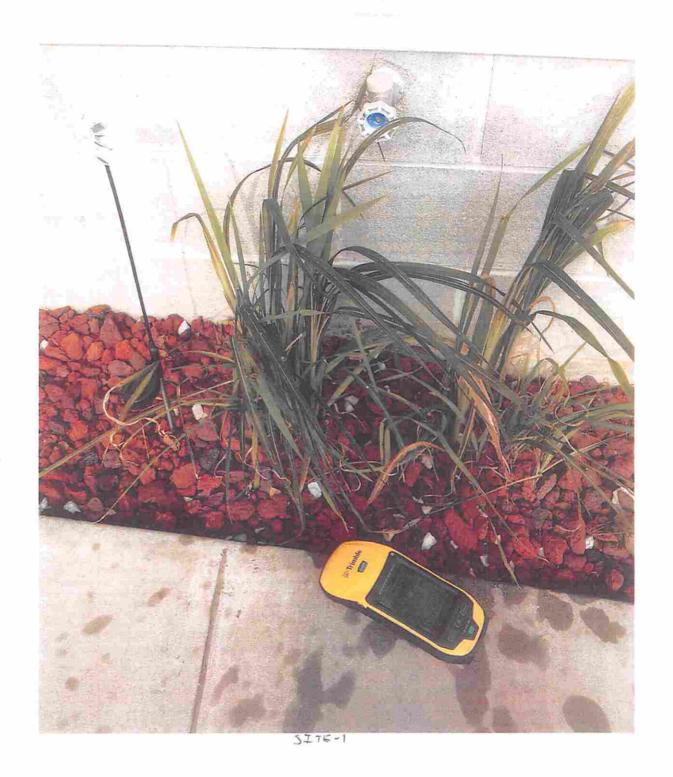
If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

W. CALVIN POSTON,

Signature: U. Calvin Poston

Date: 11-4-14

SANDIZA HAS PASSED AWNY, SEE DEATH CERTIFICATE ATTACHED





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 Chmson Circle Martinsburg, WV 25403 Phone: 304:596:2084 | Fax: 304:596:2086

Centrications: 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

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Tuesday, December 02, 2014

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GLENVILLE.

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14 28	CP		
эH	# 7.54	S.U.	SM4500H+B-00	11/10/2014	10 37	KV		
otal Aluminum	ND	mg/l	EPA 200 8 R5.4	11/13/2014	13:09	TH	0.01	[0.05]
Total Arsenic	ND	mg/I	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/I	EPA 200.8 R5.4	11/13/2014	13:09	TH	0.01	
Total Chloride	5.20	mg/I	EPA 300.0 R2.1	11/10/2014	23:54	KD	0.15	[250]
Total Dissolved Solids	428	mg/I	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/I	EPA 200.8 R5.4	11/13/2014	13.09	TH	0.01	[0.05]
Total Sodium	89.6	mg/I	EPA 200.8 R5.4	11/13/2014	13.09	TH	0.01	[20]
otal 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:

DIMOKEE Sample Submitted By: Date Sample Received: 11/7/2014 Sample temp. upon receipt: 0.4 Deg C 9.29

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

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 WASTES, W446, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing
Drinking Water, Shi 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 Conform and E. Cok by the State of West Vegma 64-3-10, Code of State Regulations,
adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00364CM and #00441M

NOTE. NO of Not Detected inducted in perpendation of the method calcination curve.

NOTE Blinding time exceeded for this analysis.

Rt 1.044



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Martinsburg Laboratory

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Certifications: WV Department of Fealth # 00354-00443 | WV Department of Environmental Protection # 158-181 MO Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00001

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GLENVILLE.

WV

26351-

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

Parameter	Value	Units	Method	Date/Time Ana	alyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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/I	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	
Kylenes	ND	mg/l	SW8021B/5030B	11/11/2014	11.55	MC	0.005	10
4-Bromochlorobenzene (Surrogate)	108	%	SW8021B	11/11/2014	11:55	MC		

Remarks:

Date Sample Collected: 11/6/2014 12:30 Sample Submitted By: Date Sample Received: D MCKEE 11/7/2014 9.29

Sample temp, upon receipt: 0.4 Deg € MDL - Minimum Detectable Limit

MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated [MGL] = Maximum Contaminant Level, Non-Regulated

Method Code: STANDARD METHODS 19TH ED, US EPA Regulated [MCL] * MAXIMUM Contaminant Level, Non-Regulated (MCL) * MAXIMUM Contaminant Level, USEPA Regulated (MCL) * MAXIMUM Contaminant Level, Non-Regulated (MCL) * MAXIMUM CONTAMINANT * MAXIMUM

ND = Not Detected at the MDL or MRL

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Martinsburg Laboratory Ridgefield Business Center (25 Crimson Circle Martinsburg, WV 25403 Phone 304 596 2084 | Fax 304 596 2086 Bridgeport, WV 26330 Phone 304 842 5265 | Fax: 304 842 5351

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

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GLENVILLE.

WV

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14.28	CP		
Н	# 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	rng/l	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.005	0.01
Total Barium	0.451	mg/I	EPA 200 8 R5.4	11/13/2014	13:15	TH	0.01	2
otal 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]
otal Sodium	184	mg/I	EPA 200.8 R5.4	11/13/2014	13:15	TH	0.01	[20]
otal 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 10:45 Sample Submitted By: Date Sample Received: 11/7/2014 0.29

Sample temp, upon receipt: 0.4 Deg € MDL - Minimum Detectable Limit

MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

MCL; = Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

"Method Code: STANDARD METHODS 197H 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 EVALUATION SOLID WASTES, SW-846, 3nd ED; USEPA Manual for Certification of Laboratories Analysing

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

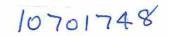
RODGE (This Sample does not meet standards set for Total Coliform and E Coli by the State of West Virginia, 64-3-10. Code of State

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

NOTE: By the Coleford induction of the State of Sample Analysed by Certified Laboratory (2003-State and 80344)

NOTE: By the Coleford induction of the Industry of State of

ND = Not Detected at the MDL or MRL





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Certifications: WV Department of Health # 90354, 00443 | WV Department of Environmental Protection # 156, 181 MD Department of Environment # 336-337 | US Environmental Protection Agency # WV00642 WV00901

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GLENVILLE.

WV

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCI
Analyte Group: <u>Total Petroleum</u>	Hydrocarbons							
TPH - DRO	ND	mg/I	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/I	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
IPH - GRO	ND	mg/l	SW8015B/5030B	11/11/2014	12:27	MC	0.2	
Cylenes	ND	mg/l	SW8021B/5030B	11/11/2014	12:27	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	107	96	SW8021B	11/11/2014	12:27	MC		

Remarks:

Date Sample Collected: 116/2014 12:45 Sample Submitted By: 9.29 Date Sample Received: 11/7/2014

Sample temp, upon receipt: □ 4 Deg □

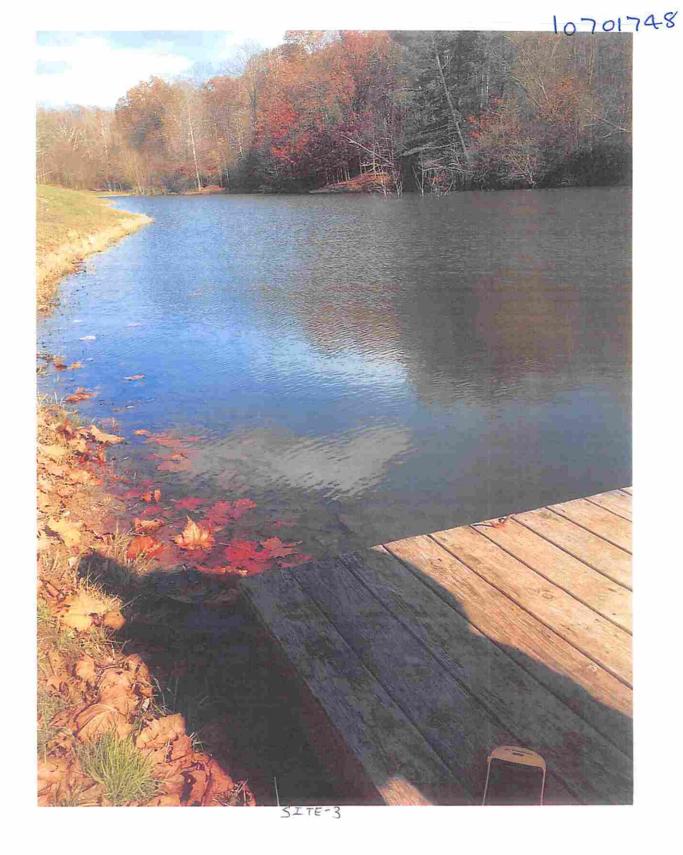
MDL - Minimum Detectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

ND = Not Detected at the MDL or MRL

MCL, * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, Non-Regulated (MCL) * Maximum Contaminant Level, USEPA Manual to Certification of Laboratories Analyzing Off MCTALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, and ED; USEPA Manual tor Certification of Laboratories Analyzing Drinking Water, 5th ED, in accordance with EPA Regulations, all reports, including raw data and qualify control data, are maintained by the laboratory for a minimum of 5 years. NOTE: This sample does not meent standards set for Total Cofform and E Ceit by the State of West Virgino. 45-10 Code of State Regulation. adopted July 1, 2002 by the Biseaus For Puster Hostin Sampler Analyzed by Certified Laboratory #00054CM and #0044 NOTE. NO of 1sto Detected induced inspectation of the method calculation is below the misimum reportable and (MR), which is requirement to the lowest shandard dutated in preparation of the method calculation curve.

NOTE 2Holding time exceeded for first arranges.

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Confidations: 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.

w

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
E. Coli (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	PRESENT		SM9223B-97	11/7/2014	14:28	CP		
H	# 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
Fotal 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:

11/6/2014 13.00 Date Sample Collected: Sample Submitted By: Date Sample Received D MCKEE 11/7/2014 929

Sample temp, upon receipt: 0.4 Deg C MDL - Minimum Detectable Limit ND = Not Detected at the MDL or MRL MRL - Minimum Reporting Limit

[MCL] = Maximum Contaminant Level, Non-Regulated MCL - Maximum Contaminant Level, USEPA Regulated

MCL; * Maximum contaminant Level, USEPA Regulated [MCL] * Maximum contaminant Level, Non-Regulated [MCL] * Maximum contaminant Level, USEPA Regulated [MCL] * Maximum contaminant Level, Non-Regulated * MCL] * Maximum contaminant Level, Non-Regulated * MCL] * Maximum contaminant Level, Non-Regulated * MCL] * MC



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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 WV00961

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GLENVILLE.

WV

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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/I	SW8021B/5030B	11/11/2014	13:01	MG	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: Sample Submitted By: Date Sample Received: DACKEE 11/7/2014 929

Sample temp, upon receipt: 0.4 Deg C MDL - Minimum Detectable Limit MDL - Minimum Detectable Limit MRL - Minimum Reporting Limit MCL - Mazimum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

ND = Not Detected at the MDL or MRL

Multi- 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 1984; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, and 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 Conform and E Cost by the State of West Verping is C1. Octor of State

Regulations, adopted July 1, 2002 by the Bureau For Fubile Health: Sample Analyzed by Certhed Laboratory 900354CM and 80044

NOTE. (N) or Not Detected indicates that the analyzed value obtained to below the minimum repolitable limit (MRL) which is equivalent to the

Note and the standard of the sample of the





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Certifications: WV Department of Health # .00354 .00443 | WV Department of Environmental Protection # .158 .181 MD Department of Environment # .330 .337 | US Environmental Protection Agency # WV00042 .WV00901

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GLENVILLE

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26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	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		
h	# 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/I	EPA 200.8 R5.4	11/13/2014	13:39	TH	0.01	2
Fotal 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]
otal 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: 9:29

Date Sample Received: 11/7/2014 Sample temp, upon receipt: 0.4 Deg C

MDL - Minimum Detectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

MCL * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, USEPA Manual Tor Certification of Laboratories Analyzing Office (Maximum Contaminant Level, USEPA Manual Tor Certification of Laboratories Analyzing Dirinking 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.

MOTE. This sample meets standards set for Total Contorm and E. Cost by the State of Vietal Uniques 64-3-10; Cost of State Regulations, adopted July 1, 2002 by the Burnau For Public Health. Sample analyzed by Centified Laboratory #00354CM and #00445W.

NOTE. No or Not Denoted induction in principation of the months of the Industrial Analytics while obstance is below the minimum reportable limit (MRL) which is equivariant to the lowest standard utilised in principation of the months called bloom curve.

NOTE #Holding time exceeded for this analytics.

ND = Not Detected at the MDL or MRL



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Martinsburg Laboratory

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

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Tuesday, December 02, 2014

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GLENVILLE

W

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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: 13.15 Sample Submitted By: Date Sample Received: D MCKEE 11/7/2014 9.29

Sample temp, upon receipt: 0.4 Deg □ MDL - Minimum Detectable Limit

ND = Not Detected at the MDL or MRL MRL - Minimum Reporting Limit

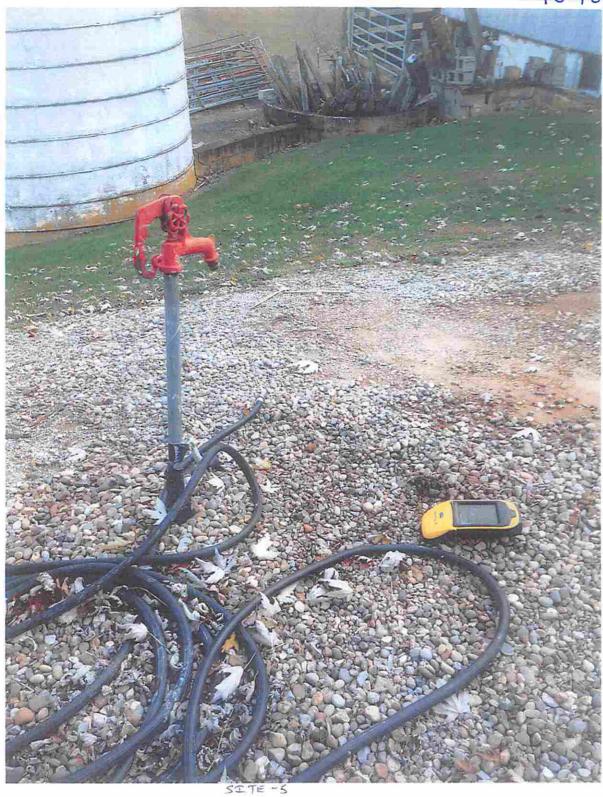
MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

Michael Code: STANDARD METHODS 19TH ED; US EPA MEGULATED STOR 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.

MOTE: This sample meets standards set for 1 rota Colother and EC Cob by the State of Viest Virginas: 84-3-10, Good of State Regulations, and produced to the Colot of State Program of State Programs and BOOMATIM.

MOTE: NO or for Detected undecades that the analytical value obtained in below the minimum reportable kind (MRL) africh is equivalent to the lowest standard discord in preparation of the method carbination survei.

MOTE: Billioding time exceeded for this analyties.





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Martinsburg Laboratory

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Certifications: WV Department of Health # 10354, 40443 | WV Department of Environmental Protection # 156, 181 MD Department of Environment # 330, 337 | US Environmental Protection Agency # WV30042, WV00001

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

Tuesday, December 02, 2014

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GLENVILLE.

WW

26351

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
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 Banum	0 065	mg/l	EPA 200.8 R5.4	11/13/2014	13:46	TH	0.01	2
Total Calcium	21.1	rng/f	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]
Fotal Manganese	ND	mg/I	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/I	SM5540C-00	11/7/2014	14:10	CT	0.2	[0.5]

Remarks:

Date Sample Collected: 13:30 D MCKEE 11/7/2014 9.79 Date Sample Received

Sample temp, upon receipt: 0 4 Deg □ MDL - Minimum Detectable Limit

ND = Not Detected at the MDL or MRL 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 Analysing Drinking Water, Shi 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 Colotions and EC Colot by the State of West Virgnas. 84-3-10, 10de of State Regulations, adopted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Centred Laboratory 900354CM and 900443M.

NOTE in State Observed standards set for that the analytical value obtained is below the minimum reportable triat (MRL), which is equivalent to the lowest standard utdoor or preparation of the method calcination curve.



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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 Analyz	ed Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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	mgЛ	SW8021B/5030B	11/14/2014 11	44 MC	0.005	0.70
Toluene	ND	mg/I	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 DIMUKEE Sample Submitted By: 9.29

Date Sample Received: 11/7/2014. Sample temp, upon receipt: 8.4 Deg €.

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

MCL, = Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated Method Code: STANDARD METHODS 19TH ED, USEPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW 446, 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 Codiom and E. Cod by the State of West Virginia, 643-10. Does of State Regulations, adopted July 1, 2002 by the Buresu For Pulse Health. Sample analyzed by Centified Laboratory #00354CM and #00443M.

NOTE: Eft or the Detected infactors in preparation of the method calculation of Laboratory in the Infance of Codioman Codi

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Centrications: WV Department of Health # 00354, 00449 | WV Department of Environmental Protection # 158, 161 MD Department of Environment # 336, 337 | US Environmental Protection Agency # WV00042, WV00901

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Tuesday, December 02, 2014

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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 A	nalyzed	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		
ρΗ	# 7.53	SU	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]
Fotal Arsenic	ND	mg/l	EPA 200 8 R5 4	11/13/2014	13:52	TH	0.005	0.01
Total Barium	880.0	mg/l	EPA 200 8 R5 4	11/13/2014	13.52	TH	0.01	2
Total Calcium	58.7	mg/i	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 D MCKEE 13.45 Sample Submitted By: Date Sample Received: 11/7/2014 Sample temp. upon receipt: 0.4 Deg C 9.29

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

Multi- Maximum Contaminant Level, USEPA Regulated

[Mict] = Maximum Contaminant Level, Non-Regulated

Miction Code: STANDARD METHODS 197H ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS. IN REVIPE AND PARTY ALL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3nd 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 Conform and E Coll by the State of West Virginia, 84-311, Code of State
Regulations, adopted July 1: 2002 by the Burnary For Public Health Sample Analyzed by Certified Laboratory 900034CM and 90044

NOTE: NO or Not Detected induction that the analysical value obtained is below the minimum reportable limit (MR) which is equivalent to the lowest standard affect of reportance of the investor occurrence of the analysical state of the proportion of the method calibration curve.

NOTE: Shindard time exceeded for this analysis.



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GLENVILLE

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26351

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

Parameter	Value	Units	Method Date/Time	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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	1/0	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/I	SW8021B/5030B	11/14/2014	12:34	MC	0.005	1.0
IPH - GRO	ND	mg/I	SW8015B/5030B	11/14/2014	12 34	MC	0.2	
Kylenes	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: Sample Submitted By: Date Sample Received: Sample temp, upon receipt: 0.4 Deg C MDL - Minimum Detectable Limit

DIMCKEE

9.29

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

INCLL - 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 1993; TEST METHODS FOR EVALUATIONS SOLID WASTE, SW-846, 2nd 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 most standards set for Total Coldern and E. Coll by the State of When Morphia, 643-10, Coder of State 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 most standards set for Total Coldern and E. Coll by the State of When Morphia, 643-10, Coder of State Regulations, all reports, the State of When Morphia of State Regulations, all reports, including and the State Regulations of the method calceration curve.

NOTE (Richard datased in propagation of the method calceration curve.)





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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

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

26351

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/7/2014	14:28	CP		
oH.	# 8.63	SU	SM4500H+B-00	11/10/2014	13.39	KV		
Total Aluminum	ND	mg/I	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/I	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]
Fotal 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 14.35 Sample Submitted By: Date Sample Received: D MCKEE 11/7/2014 925

Sample temp. upon receipt: 0.4 Dog 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 Regulated [MCL] = MAXIMUM Contaminant Level, Non-Regulated [MCL] = MAXIMUM Contaminant Level, Non-Regulated [MCL] = MAXIMUM Contaminant Level, Non-Regulated Maximum Contaminant Level, USEPA METHODS FOR THE DETERMINATION OF METHOD STANDARD METHODS FOR THE DETERMINATION OF METHOD STANDARD METHOD STANDARD METHOD STANDARD METHOD STANDARD MAXIMUM CONTROL STANDARD MAXIMUM CONTROL STANDARD METHOD M



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Certifications: Wy Department of Health # 00354: 00443 | Wy Department of Environmental Protection # 156: 181: MD Department of Environment # 336: 337 | US Environmental Protection Agency # WV00042: WV00001

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GLENVILLE

WV

26351

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: <u>Total Petroleum</u>	Hydrocarbons							
TPH - DRO	ND	mg/l	SW8015B/3535A	11/26/2014 1	4 40	MC	1	
TPH - ORO	ND	mg/l	SW8015B/3535A	11/26/2014 1	4:40	MC	1	
o-Terphenyl (Surrogate)	111	%	SW8015B	11/26/2014 1	4:40	MC		
Benzene	ND	mg/l	SW8021B/5030B	11/14/2014 1	3.06	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	11/14/2014 1	3.06	MC	0.005	0.70
Toluene	ND	mg/l	SW8021B/5030B	11/14/2014 1	3:06	MC	0.005	1.0
TPH - GRO	ND	mg/l	SW8015B/5030B	11/14/2014 1	3 06	MC	0.2	
Xylenes	ND	mg/l	SVV8021B/5030B	11/14/2014 1	3.06	MC	0.005	10
z4-Bromochlorobenzene (Surrogate)	110	%	SW8021B	11/14/2014 1	3.06	MC		

Remarks:

Date Sample Collected: 11/6/2014 Date Sample Received: 11/7/2014

Sample temp. upon receipt: 0.4 Deg C MDL - Minimum Detectable Limit

ND = Not Detected at the MDL or MRL

MRL - Minimum Reporting Limit

MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

MCL; * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, Non-Regulated (MCL) * Maximum Contaminant Level, USEPA Regulated [MCL] * Maximum Contaminant Level, Non-Regulated (MCL) * Maximum Contaminant Level, USEPA Manual for Certification of Laboratories Analyzing Off METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3nd 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 sometic meets shardware set for Total Contorm and E. Color by the State of Veets Virginas, 64-3-10 Code of State Regulations, adapted July 1, 2002 by the Bureau For Public Health. Sample analyzed by Certified Laboratory #00354CM and 900445M.
NOTE: NO or feet Detected inducted in preparation of the inethod cultification curve.

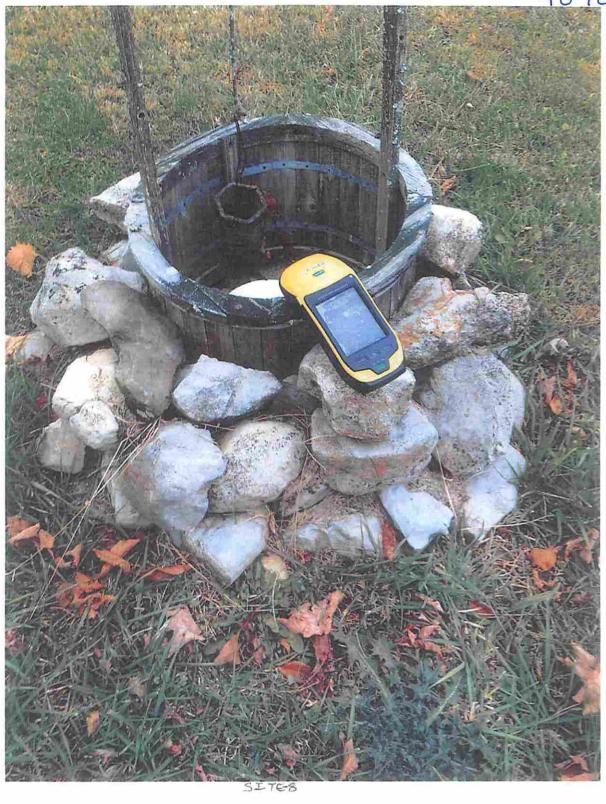
NOTE: ## Notified Provided Induction preparation of the inethod cultification curve.

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**NOTE: ## Notified Provided Induction preparation of the inethod cultification curve.

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Certifications: WV Department of Health #, 90354, 90443 | 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

Wednesday, December 03, 2014

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GLENVILLE

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26351-

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

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: <u>Inorganics</u>								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	11/14/2014	15:17	CP		
H	# 6 75	S.U.	SM4500H+B-00	11/18/2014	15:00	KV		
otal Aluminum	ND	mg/I	EPA 200 8 R5 4	11/26/2014	13:41	TH	0.01	[0.05]
otal Arsenic	ND	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.005	0.01
otal Barium	0.020	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	2
otal Calcium	129	mg/l	EPA 200 8 R5 4	11/26/2014	13(41	TH	0.01	
otal Chloride	25.1	mg/l	EPA 300.0 R2.1	11/18/2014	15:13	KD	0.15	[250]
otal Dissolved Solids	858	mg/l	SM2540C-97	11/17/2014	11:10	CP	10	[500]
otal Iron	1.23	mg/l	EPA 200 8 R5.4	11/26/2014	13:41	TH	0.1	[0.3]
otal Manganese	ND	mg/l	EPA 200 8 R5 4	11/26/2014	13.41	TH	0.01	[0.05]
otal Sodium	86.7	mg/l	EPA 200.8 R5.4	11/26/2014	13:41	TH	0.01	[20]
otal Sulfate	268	mg/l	EPA 300.0 R2.1	11/18/2014	15.13	KD	0.5	[250]
otal Surfactant	ND	mg/l	SM5540C-00	11/14/2014	15:00	CT	0.2	[0.5]

Remarks:

Date Sample Collected: Sample Submitted By:

11/23/2014 DIMOKEE

13:30 9.54

Date Sample Received: Sample temp. upon receipt: 1 0 Deg □ MDL - Minimum Detectable Limit

11/14/2014

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

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 \$ years.

NOTE: This sample meets standards set for Total Colorm and E. Con by the State of West Virgons, 643-10. Code of State Regulations adopted July 1, 2002 by the Bureau For Pulpor Health. Sample analyzed by Certified Liboratory #00354CM and #20043M.

ROTE: NO or Not Detected induced in preparation of the method calibration outset.

RECORD



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

SMITH LAND SURVEYING, INC. P O. BOX 150

Wednesday, December 03, 2014

Page 3 of 5

GLENVILLE

WV

26351

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

Parameter	Value	Units	Method	Date/Time Ar	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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/I	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	
Kylenes	ND	mg/l	SW8021B/5030B	11/20/2014	13:02	MC	0.005	10
r4-Bromochlorobenzene (Surrogate)	106	%	SW8021B	11/20/2014	13.02	MC		

Remarks:

11/13/2014 D MCKEE Date Sample Collected: 13:30 Sample Submitted By: 9.54

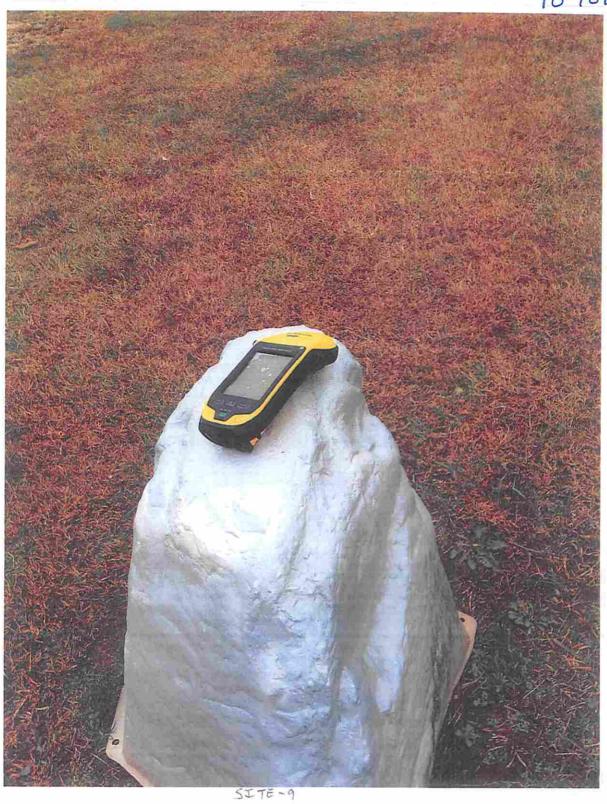
Date Sample Received: 11/14/2014 Sample temp, upon receipt: 1.0 Deg C

MDL - Minimum Detectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

ND = Not Detected at the MDL or MRL

Michael Code: STANDARD METHODS 19TH ED; US EPA Regulated [Michael Standard Standard

Bilon





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 Chmson 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 #, 338, 337 | US Environmental Protection Agency #, WV00042, WV00901

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

Wednesday, December 03, 2014

Page 4 of 5

GLENVILLE.

WV

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Inorqanics</u>								
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	SU	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:

11/13/2014 Date Sample Collected: Sample Submitted By: Date Sample Received:

1405 D MCREE 11/14/2014 9.54

Sample temp, upon receipt: 1.0 Deg G MDL - Minimum Detectable Limit

ND = Not Detected at the MDL or MRL MRL - Minimum Reporting Limit

MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

Method Code: \$7ANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 82; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTES, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Dirisking Water, \$th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of \$ years.

NOTE: This sample meets standards set for Total Contorn and EC Cote by the State of Visits Virginas 48-3-10, Cash of State Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of \$ years.

NOTE: ND of Not Detected microalise start the analytical value obtained as below the minimum reportable start (MRL) which is equivalent to the lowest standard defected in preparation of the method californic curve.

NOTE: #Hooding time exceeded for this analysis.

Ritson



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, VVV 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 Environmental Protection Agency # WV00042, WV00901

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

Wednesday, December 03, 2014

Page 5 of 5

GLENVILLE.

W

26351-

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

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	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/I	SW8021B/5030B	11/20/2014	13:37	MC	0.005	1.0
IPH - GRO	ND	mg/l	SW8015B/5030B	11/20/2014	13:37	MC	0.2	
Cylenes	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: Date Sample Received: D MCKEE 11/14/2014 9.54

Sample temp, upon receipt: 1 0 Dog C MDL - Minimum Detectable Limit

ND = Not Detected at the MDL or MRL MRL - Minimum Reporting Limit

MCL - Maximum Contaminant Level, USEPA Regulated [MCL] = Maximum Contaminant Level, Non-Regulated

Method Code: STANDARD METHODS 1911 Eq. US EPA Regulated [act.c] = Mazimum Contaminant Leves, reon-regulated [act.c] = Mazimum Contaminant Leves [act.c] = Mazimum Cont

REFORE



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P.O. Box 150 Glenville, WV 26351





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Glenville, WV 26351







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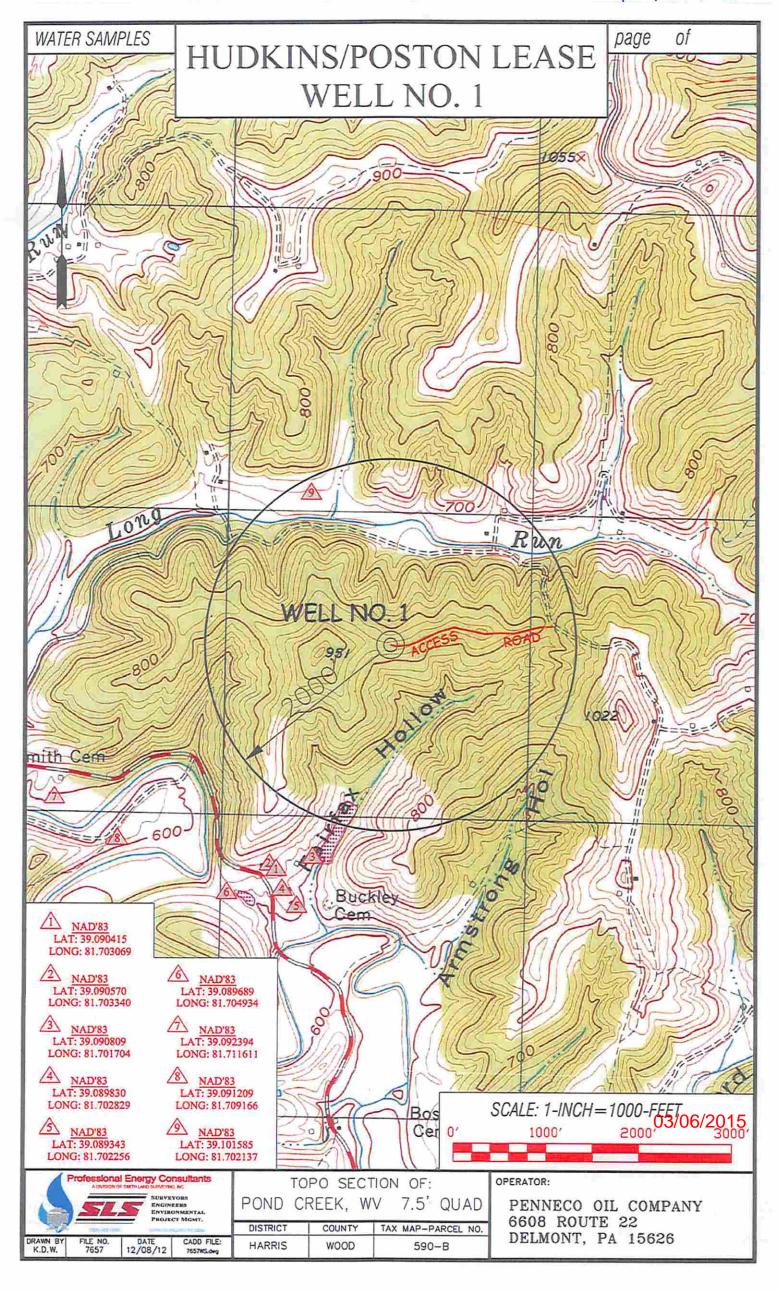
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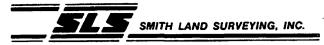
GEORGE E HUDKIN

1 WILLOUGHBY DI

PARKERSBURG, W







P.O. BOX 150, GLENVILLE, WV 26351

7657.PENNECO.HUDKINS.TRANSMITTLE

LETTER OF TRANSMITTAL

		(304) 462	-5634 • FAX	X (304) 462-5656		12/09/2014	7657
		, ,				ATTENTION Mr. Dave Smail	
то	PENN	IECO OIL COM	MPANY			RE	or the HUDKINS / POSTON #1 Well pad
		Route 22					
	Delm	ont, PA 15626	- *				
					,		
V	E ARE S	ENDING YOU		thed Under separate co	over via_	t	he following items:
		☐ Shop drawi	inas	☑ Prints	☐ Plans		☐ Specifications
			•	☐ Change order		•	•
_	000:50	DATE	NO.	T		DESCRIPTION	
+	COPIES 1	12/09/2014	1	Final Water Map			
	1	12/09/2014	18	Sample results			
f	.	12/09/2014		Letters of Refusal / Copie	es of certi		
t		12/09/2014	3	Final water data sheets			
7	HESE A	RE TRANSMITT		•		FOR SAMPLES TAKEN Octob	per - December 20 14
•	TIESE A			☑ For your use		☐ For your file	
		☐ Duplicate		☐ Other (specify	·)	- Tor your me	
		_ оорсосс	. сору	,	,		
1	REMARKS	5					
	lf yo	ou have any qu	estions p	lease feel free to contact	me at ou	office. Thank you for yo	our time and cooperation
	concer	ning this matter	<u>r. </u>				
	Notes:	1. This pre-	drilling typ	pe of water analysis is use	ed by Sm	ith Land Surveying, Inc.	to determine general water
	quality	and does not i	mply nor	should it be relied upon as	s evidenc	e of the potability or safe	ty of your water supply.
		2. Any que	stions or	concerns you may have re	egarding	the present quality of you	ur water supply should be
	directed	to your local [Departme	nt of Health.			
	DMcKe	@sissurveys.	com				
C	OPY TO	SLS Files					
		O HUDKINS TRA	NSMITTIE		s	SIGNED: Daniel McKee En	vironmental Technician

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

WW-9 (5/13)

	911
dkins/Poston Unit #1	1.1
	dkins/Poston Unit #1

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

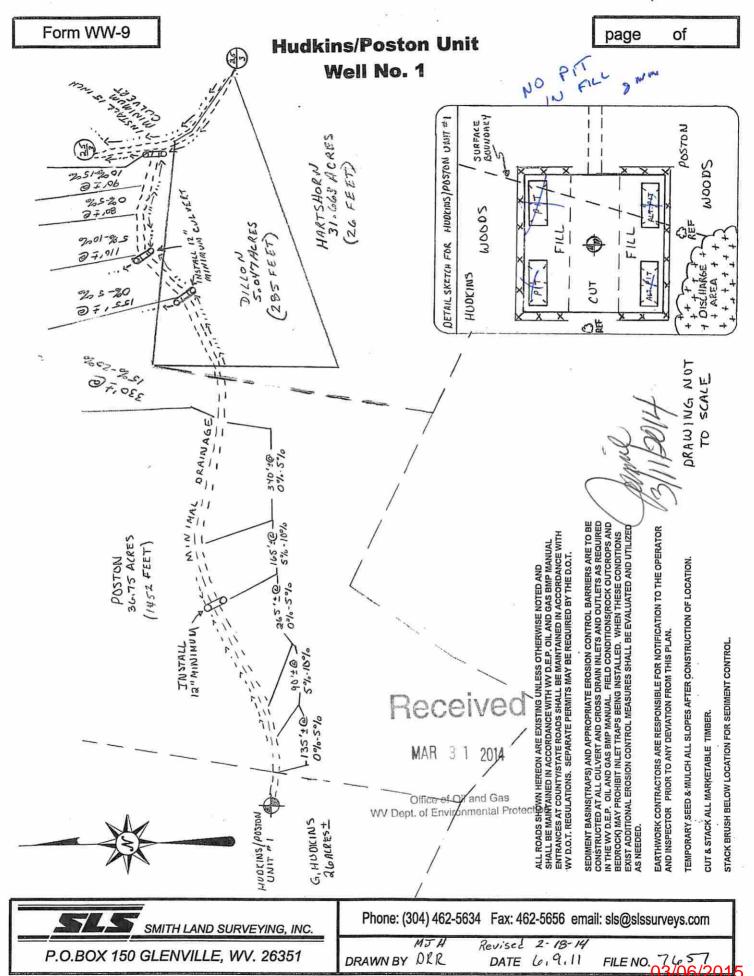
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

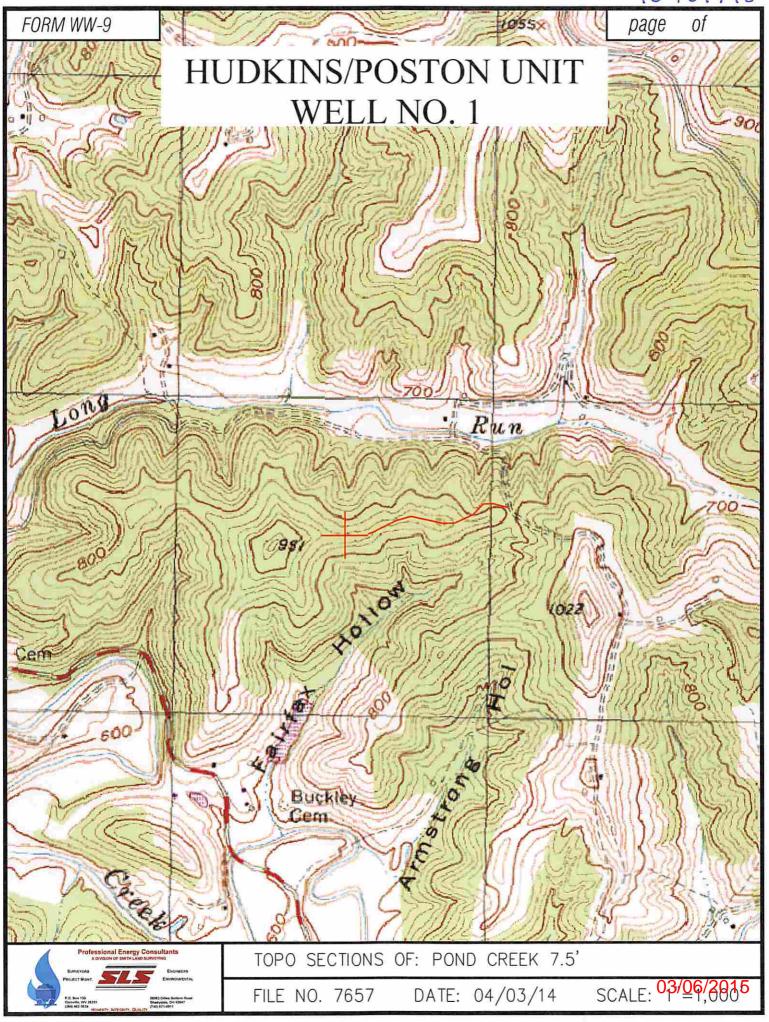
Operator Name Penneco Oil Company OP Code 494460033
Watershed (HUC 10) Long Run and Fairfax Hollow Quadrangle Pond Creek 7.5'
Elevation 843' County Wood District Harris
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used for drill cuttings? 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.? 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
Company Official (Typed Name) Stephen K. Schuman
Company Official Title_Designated Agent
Subscribed and sworn before me this 18th day of March . 20 14 Notary Public
My commission expires August 22, 2017 Notary Public, State Of Motory Public, S

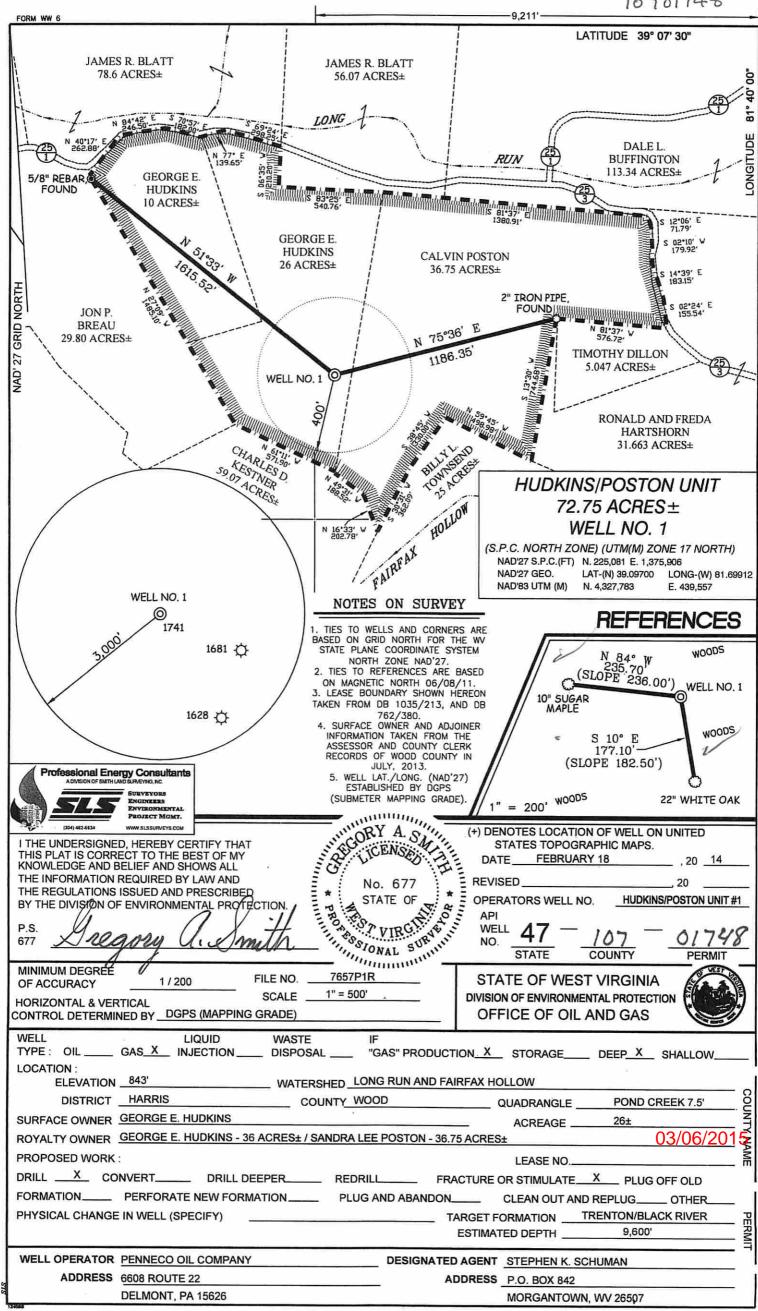
Operator's Well No.

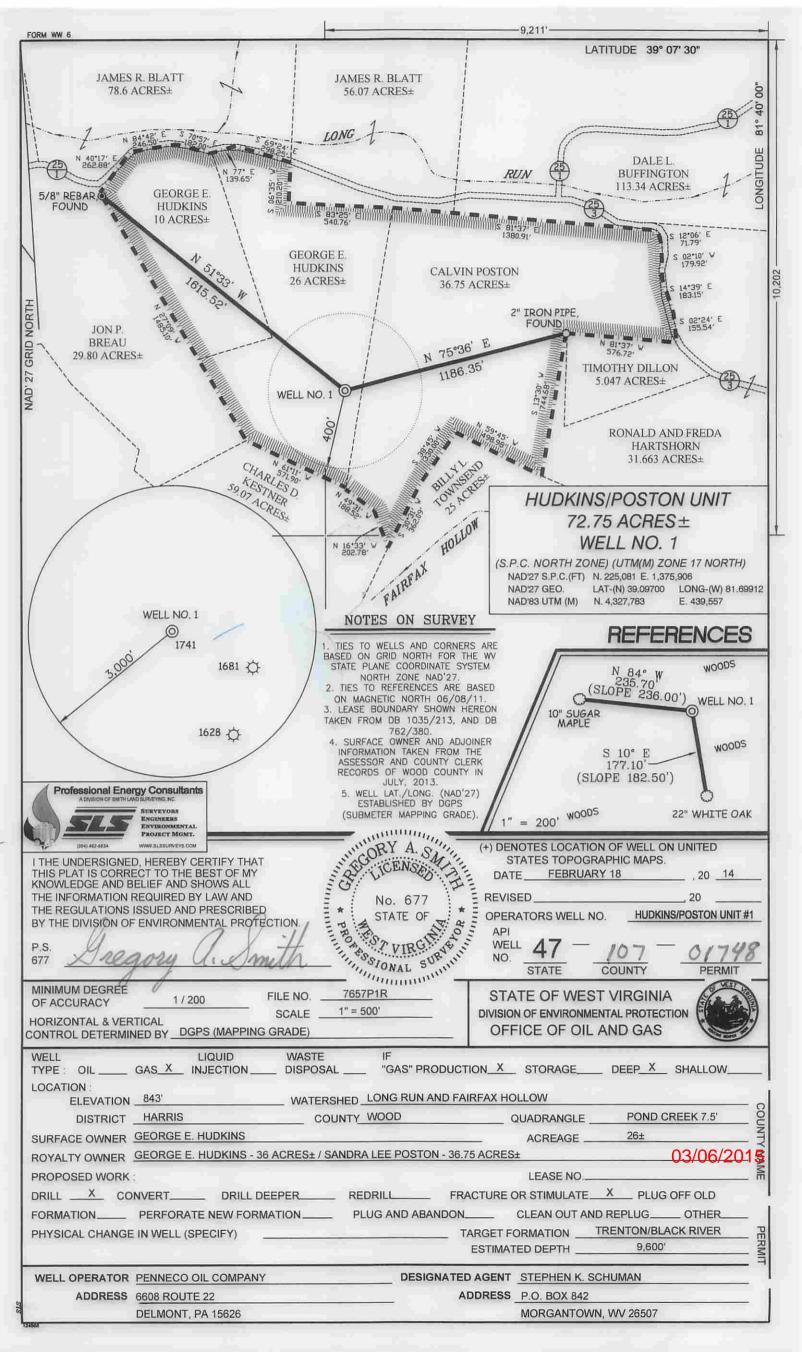
Hudkins/Poston Unit #1

		LEGEND	
Property Boundary		Diversion Leasestantel	
Road = = = = =	prin might begg diskent tradity grape dire etilen etnind distint spinis, nggan	Spring -	
Existing Fence X -	_ × _ × _	Wet Spot	
Planned Fence / _	//	Drain Pipe with size in inches	—
Stream Change	The second second	Waterway C	$\Rightarrow \Leftrightarrow \Leftrightarrow$
	· ·········· • · · · · · · · · · · · ·	Cross Drain 777777	
Rock of Sign		Artificial Filter Strip XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N		Pit: cut walls	
Buildings		Pit: compacted fill walls	
Water wells (W)		Area for Land Application of P	t and the second
Drill site			
		The second secon	THE RESERVE OF THE PROPERTY OF
Proposed Revegetation Treats	ment: Acres Disturbed \(\begin{picture}(2 \div \pmathbf{\qmathbf{\pmathbf{\pmathbf{\pmathbf{\pmathbf{\pmathbf{\pmathbf{	Prevegetation pH	
Lime 3	Fons/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/a	cre	•
	See.	d Mixtures	
		u mature,	
Are Seed Type	a I lbs/acre	Are Seed Type	a II lbs/acre
		•	
KY-31	40	ORCHARD GRASS	<u>15</u>
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		
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Attach:			
Drawing(s) of road, location,	oit and proposed area for land appl	lication.	
Photocopied section of involv	ed 7.5' topographic sheet.		
THESE EXAMPLE 13 de l'INCHENTRIC CHIMINES PER L'EXPERTENCE LE	10. 10. FTW	10m 0 -	understanden of the state of th
Plan Approved by:	JAMU XXX		
Comments:			
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		3/11/06	111/
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oy Puber, State Of Sand ving rate	isoM		03/00/2013









CLE 10701748



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 Follov	wing Deep Well Drilling Procedure and Site	e Safety Plan Approved By:	Chaines 7/10/
Ву:		Date:	
Title:	, Penneco		
Ву:		Date:	Received
Title:	, WVOOG		MAR 3 1 2014

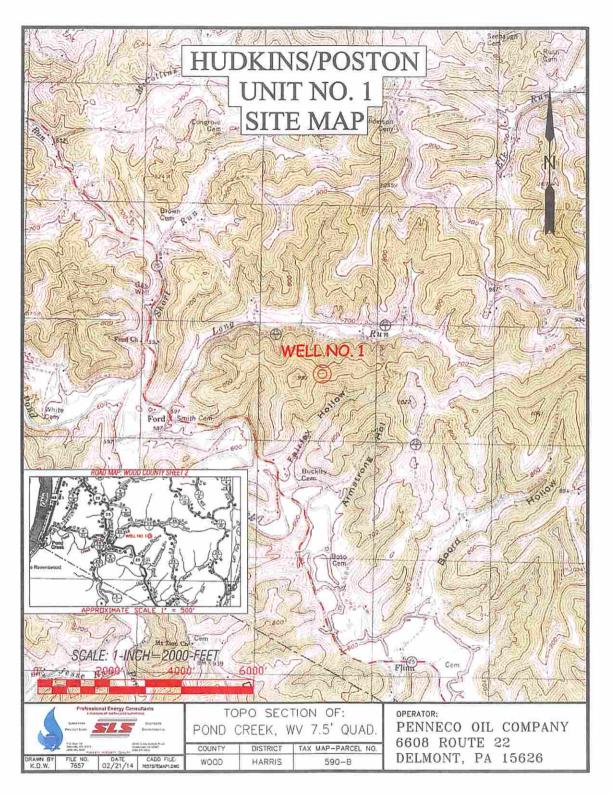
Office of Oil and Gas WV Dept. of Environmental Protection

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Received

SITING PLAN



Received

MAR 3 1 2014

03/06/2015

Office of Oil and Gas WV Dept. of Environmental Protection

Pit & Flare Lines

WW-9 Rev. 5/10

Pa	ge 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	49446003	3	
Watershed Long	Run and Fairfax Holk	ow_		Quadrangle _	Pond Creek	7.5'		
Elevation 843'		County_	Wood		Distr	ict <u>Harris</u>		_
Description of ant	icipated Pit Waste:	Drill Water	and Various	Formation Cutt	ings			
Do you anticipate	using more than 5,000	bbls of wate	r to complete	the proposed v	well work?	Yes	No X	_
	ner be used in the pit?							
• •	Land Applica Land Applica Underground Reuse (at AP X Off Site Dispo X Other (Expla	tion Injection (U I Number_ osal (Supply	form WW-9	for disposal lo	cation)			<u>ا</u>
-If oil bas Additives to be us Drill cuttings disp -If left in	nticipated for this well sed, what type? Synthed? Soap osal method? Leave it pit and plan to solidify or offsite name/permit	etic, petroleu 1 pit, landfill, 1 what mediu	m, etc removed off m will be use	site, etc. <u>Lea</u>	ve in Pit -	Encapsulated		v, WV_
August 1, 2005, b provisions of the p or regulation can l I certify application form a the information, I submitting false in Company Official	hat I understand and a yy the Office of Oil at sermit are enforceable ead to enforcement act under penalty of law and all attachments the believe that the infor formation, including the Signature (Typed Name)	nd Gas of the by law. Vio tion. that I have reto and that rmation is to the possibility	e West Virgi lations of any personally of based on m ne, accurate, of fine or im	pia Department y term or condi- examined and y inquiry of the and complete. prisonment.	t of Environ tion of the go am familiar ose individua I am awar	nental Protection and permit with the infection with the infection with the infection and the infection and the infection and the infection and infection an	tion. I underst and/or other ap ormation submi ly responsible f	and that the plicable law itted on this for obtaining
Subscribed and sw	rom before me this		day of			20		
My commission ex	opires							

Received

	Dalling Daniel Marking
Meeting Date:	Drilling Deeper Meeting
	Hudkins/Poston Unit # 1
NAME	TITLE
	Penneco DRILLING REPRESENTATIVE
	Penneco SITE SUPERVISOR/REPRESENTATIVE
	STATE INSPECTOR
	DRILLING CONTRACTOR REPRESENTATIVE
	Received
	1,000,700
	MAR 3 1 2014
	1

Office of Oil and Gas
WV Dept. of Environmental Protection

Sign In Sheet

Rig / Well

County / State

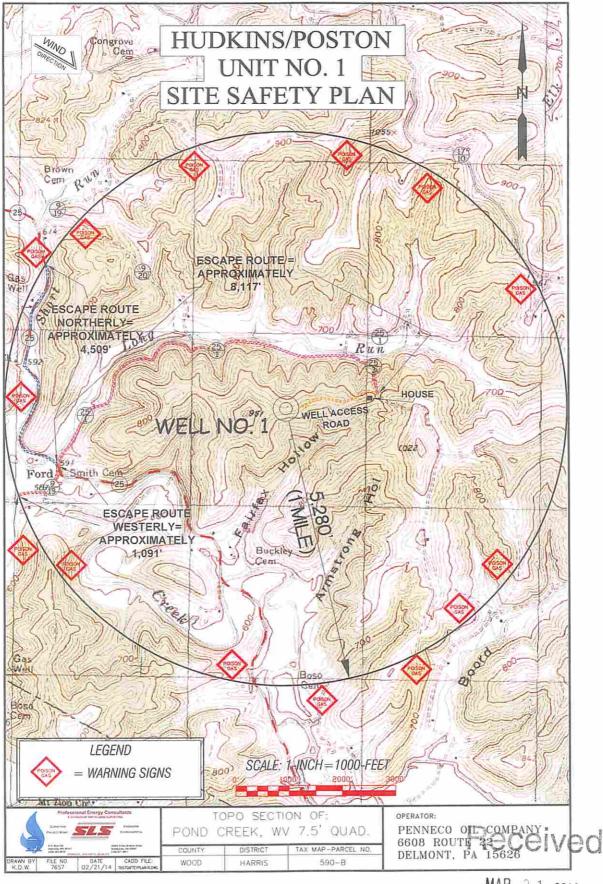
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EVACUATION PLAN



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:

- 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.

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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- 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 (SO₂). Under certain conditions this gas may be equally as dangerous as H₂S. A pump type detector device, which determines the percent of SO₂ in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO₂ 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.

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SAFETY MEETING SCHEDULE

DATE	Number Of Workers Attended	SAFETY TOPIC DISCUSSED – Hudkins/Poston Unit # 1
	- 	
-		
	+	
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		Receive
		receive
	+	MAR 3 1 2014

LIST OF EMERGENCY PHONE NUMBERS

Penneco Oil Company

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

Hydrogen Sulfide Safety Technicians

Total Safety US, Inc.		Phone: 724-745-1919
2445 West Pike Street	Primary Call #724-745-1919	Fax: 724-745-6088
Suite 200		
Houston, PA 15342		
Total Safety US, Inc.		Phone: 724-745-1919
2445 West Pike Street		Cell: 412-737-3950
Suite 200		
Houston, PA 15342		
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 (304)-424-2111	
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Ambulance Services (911)

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

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	Customer Service Chief: James Martin	Phone (304) 926-0450 Fax (304) 926-0452	
Oil and Gas Management			
601 57 th Street, SE Charleston, WV 25304			
West Virginia Department of Environmental Protection Division of Air Quality	Phone Number	(304) 926-0499 Ext. 1227 Rec	eived
601 57 th Street, SE Charleston, WV 25304		MAR	3 1 2014

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.

Received

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 5,760°	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

Received

MAR 3 1 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Geologic Prognosis

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

Elevation (Ground): 843', 853' KB			
Pormation Tops:	Depth	Thickness	Pay/Show
Big Lime	1664	45'	•
Big Injan	1709*	462'	•
Sunbury Shale	2235'	18,	poss Sg
Beren	2253*	4'	poss Sg/So
Lo Huron undiff.	2257'	1,107'	poss Sg 2,989° 3,001°
Lower Huron	3,3641	533'	poss Sg 3,430° 3,595°
Java Fm.	3,897'	385'	
Rhinestreet Sh.	4,2821	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.	5,3321	25'	poss Sg/pay
McKenzie	5,3571	298'	poss 8g 5,469°
GAS CHECK	5.525		
Big Six Sa.	5,655'	34'	poss Sg
Rose Hill Sb.	5,689'	272'	•
Tuscarora Ss Grp	5,961'	210'	poss Sg 6,077'
Junista Fm.	6,171'	505'	•
Martinsburg Sh.	6,6761	1,063'	•
Utica Sh.	7,7391	145'	poss Sg/So
GAS CHECK	2.900'		
Trenton Ls.	7,884'	145'	poss Sg/80
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 Sidewali Neutron Porosity: TD to casing seat

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

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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:

Universal Well Services: Cement and Cementing:

> Brad Rowley, Engineer Cell: (814) 952-0126 Office: (814) 938-2951

Weatherford: Electric Logging:

Dave Sommerville, Sales Engineer Office: (724) 354-3090

Cell: 9724) 388-2577

Pipe and Supplies: McJunkin-Red Man Corporation:

(304) 472-3565 Buckhannon yard: (724) 349-6823 (412) 289-2444 Indiana Office: Don Hudson; cell

Mud Logging: Geosearch Logging:

H2S Safety: Total Safety

(724) 745-1919 Office Derek Kaiser: District Manager (412) 737-3950 cell

CONTACTS:

Oil and Gas Inspector: **JAMIE STEVENS: (304) 206-7775**

Rig Phone:

_ . . Office: (724)-468-8232 PENNECO:

Fax: (724) 468-8230

Office: (724) 468-8232 Cell: (724) 640-5213 Manager: Bill Baughman

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

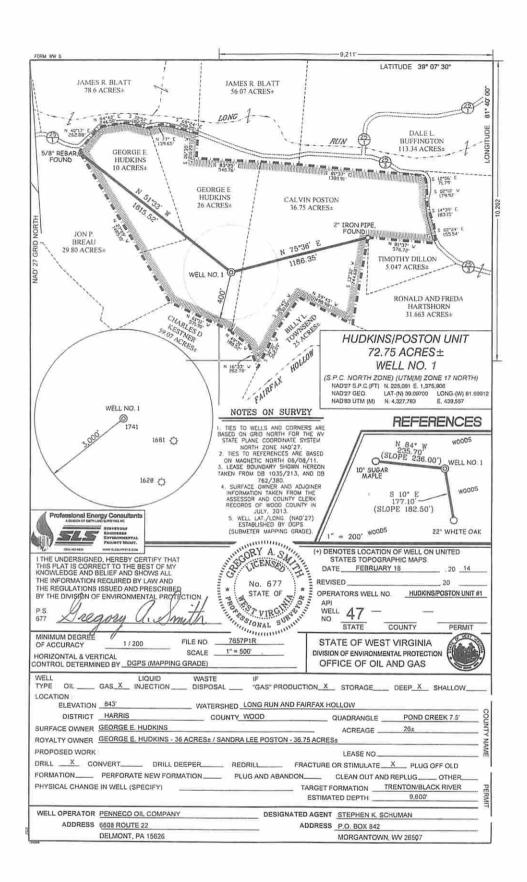
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator	Penneco Oil Company			49	94460033	Wood	Harris	Pond Creek 7.5'
				0	perator ID	County	District	Quadrangle
2) Operator's Wel 4) Well Type: (a)			3) Elevation: <u>843'</u>					
(b) l	lf Gas: Pro	duction	X / Underground	Storage				
		Deep	/ SI	nallow	_			
6) Proposed Tota 7) Approximate fr 8)Approximate sa 9) Approximate co 10) Approximate v	I Depth: _ <u>s</u> esh water s ilt water de pal seam d void depth ntain coal s	3600 Feet strata deptlepths: 6 lepths: 8 lepths: 8 lepths: 10 lept	st, other): None	oposed Total D	epth: <u>Trentor</u>	n/Black Rive		on
								
13)		CASING	AND TUBING PR	OGRAM				
TYPE SPI	ECIFICATI	ONS	FOOTA	GE INTERV	ALS CEI	MENT		
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in W	ell Fill-	up (Cu. Ft.)
Conductor	20"	MC-50	81.30#	30'	30,	СТ	;	
Fresh Water	16"	H-40	65.0#	350'	350'	СТ	3	
Coal	11 3/4"	H-40	42.0#	1650'	1650'	стя	3	
Intermediate	8 5/8"	J-55	32.0#	4630'	4630'	СТ	3	
Production	4 ½"	MAV65	10.5#	9600'	9600'	By 4-11	/ Rule 35 C	SR
Tubing								
Liners								
	ind izes						Depti	hs Set

Optional 5 1/2" casing, N-80 17lb 9600'

Received



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BOP Requirements

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

Casing String – 20"Casing String – 16"Casing String – 11.75"Rotating Head OnlyBOP Type – AnnularBOP Type - Annular

Size – 20" Size – 16" Size – 11.75"

Pressure Rating – 500 psi Pressure Rating – 5000 psi Pressure Rating – 5000 psi

BOP Type – Double Rams BOP Type – Double Rams

Size - 8.625" Size - 4 1/2"

Pressure Rating – 10000 psi 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.

Received

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.

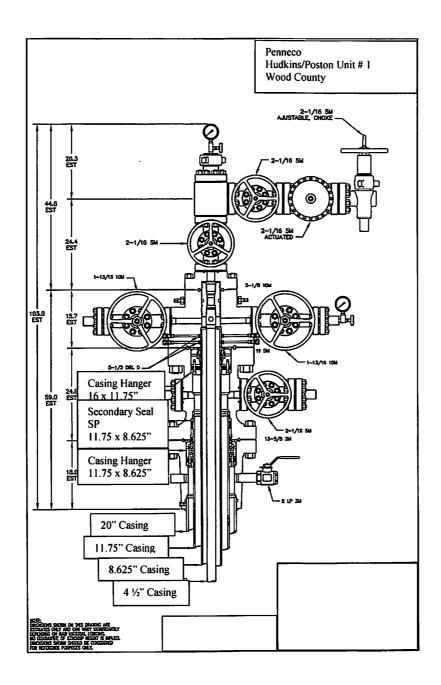
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Wellhead Assembly

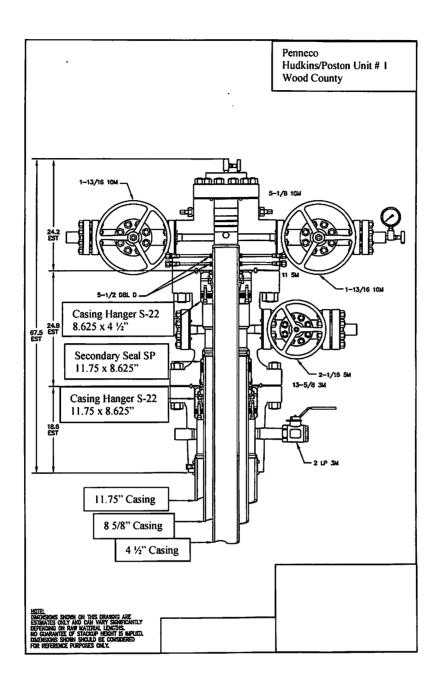
The Christmas tree section is to be designed depending upon the well completion type (i.e., 8.625", 4 ½", tubing, or combination thereof).

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WELLHEAD SCHEMATIC



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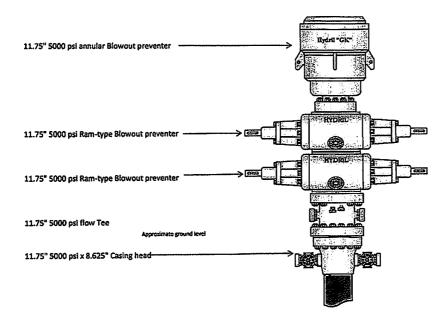
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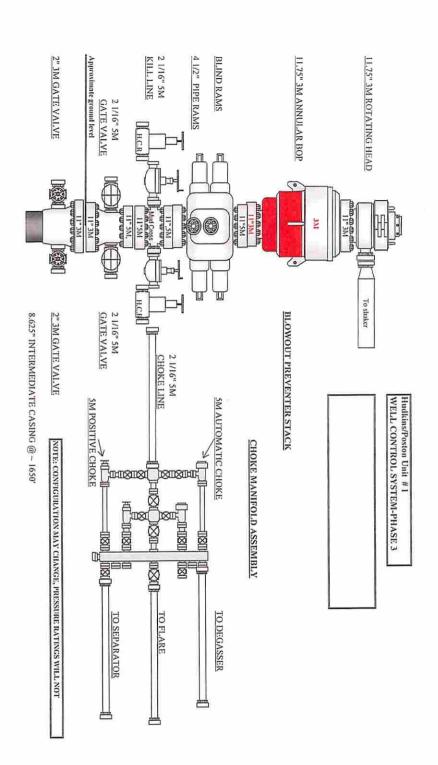
Office of Oil and Gas
WV Dept. of Environmental Protection

Well Flaring and Killing Operations

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



Received



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MAR 3 1 2014

Office of Oil and Gas WV Dept. of Environmental Protection

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.

Received

H₂S Safety Services Equipment List

Hydrogen Sulfide Safety Package – Contained on location in Total Safety H₂S Equipment Trailer, unless otherwise noted:

Respiratory Safety Systems

QTY	DESCRIPTION
1 24	Trailer with 10 bottle cascade system and associated manifolds. 30-minute pressure demand SCBA with Pigtail (4 Primary safe briefing area, 4 Secondary Safe Briefing Area, 4 floor with
9	one of these for derrick man) 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 ₂ S 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	
3	H_2S Sensors – located at rig floor, cellar, shakers, drillers console, and pit
•	H ₂ S Sensors – located at rig floor, cellar, shakers, drillers console, and pit Explosion Proof Alarms (Light and Siren)
2	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors
	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S)
2	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S) Sensidyne/Gastech Manual Pump Type Detector
2 1 1 8	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S) Sensidyne/Gastech Manual Pump Type Detector Boxes H ₂ S Tubes Various Ranges
2 1 1 8 2	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S) Sensidyne/Gastech Manual Pump Type Detector Boxes H ₂ S Tubes Various Ranges Boxes SO ₂ Tubes Various Ranges
2 1 1 8 2 1	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S) Sensidyne/Gastech Manual Pump Type Detector Boxes H ₂ S Tubes Various Ranges Boxes SO ₂ Tubes Various Ranges Calibration Gas
2 1 1 8 2	Explosion Proof Alarms (Light and Siren) Personal H ₂ S monitors Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S) Sensidyne/Gastech Manual Pump Type Detector Boxes H ₂ S Tubes Various Ranges Boxes SO ₂ Tubes Various Ranges

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Additional Safety Related Equipment

QTY	<u>Description</u>
2 1 1 1 6	Windsocks with Pole and Bracket Set Well Condition Sign w/Green, Yellow, Red Flags Primary Safe Briefing Area Sign Secondary Safe Briefing Area Sign Operating Condition Signs for Work Areas & Living Quarters MSDS sheets shale be posted in the Supervisors trailer and will be readily available to anyone
٦	Trailer with Breathing Air Cascade Will Also Include the Following This equipment will be part of the H ₂ S equipment stored in the trailer, when on location
1 1 1 1 1 2	Oxygen Resuscitator Flare Gun, with 10 cartridges First aid kit Eye wash station Litter Safety Harness w/150' Safety line

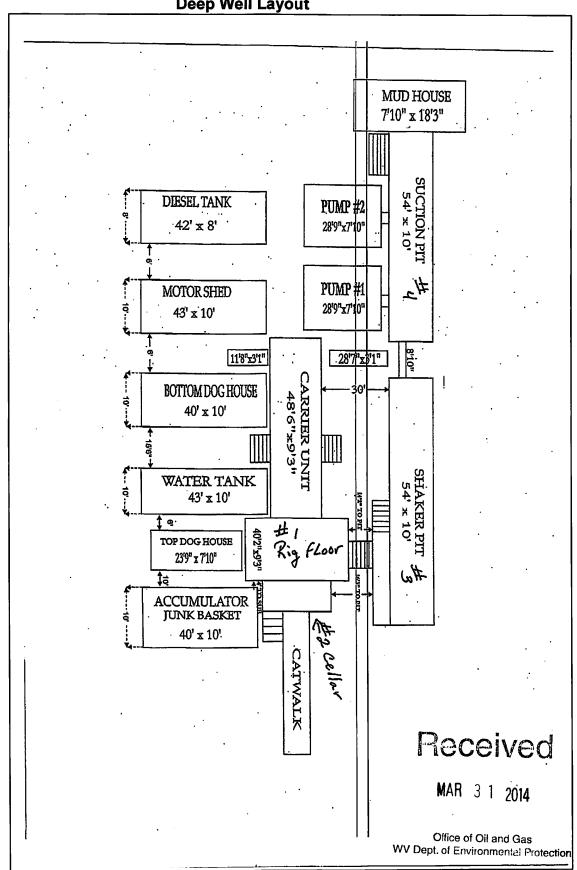
H₂S Training Statement

On site personnel will be trained in H₂S safety by independent training contractors. H₂S qualified personnel will be present during the drilling and/or presence of H₂S.

Completion and production activities will include Hydro-Fracing



Deep Well Layout



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

Name:	Address:	Number:	
Timothy Dillon	605 Hugh St.	(304) 428-4222	
Tax Map 590 Par. D1	Parkersburg, WV 26101		
Neva V. Smith	2508 Pond Creek Rd.	(304) 863-3511	
Tax Map 590 Par. A	Belleville, WV 26133		
Ronald W. Hartshorn	1908 Long Run Rd.	No Listing	
Tax Map 590 Par. D	Belleville, WV 26133		
Ronald E Stephens	2478 Big Pond Creek Rd.	(304) 863-3740	
Tax Map 590 Par. A2	Murraysville, WV 26164	` '	
Charles D Kestner	3091 Pond Creek Rd.	(304) 863-8832	
Tax Map 590 Par. B1	Ravenswood, WV 26164		
Chester D Smith	3206 10 th Ave.	(304) 428-7004	
Tax Map 590 Par. B2	Parkersburg, WV 26101		
Marvin Foggin	26 Short Run Rd.	(304) 863-6934	
Tax Map 540 Par. A	Belleville, WV 26133	` '	
James R Blatt	829 S Long Run Rd.	(304) 489-1765	
Tax Map 540 Par. C	Belleville, WV 26133		
Dale Buffington	38 Turn Around Rd.	(304) 679-3792	
Tax Map 540 Par. D	Belleville, WV 26133		
Amro Mortgage Group INC.	4242 N Harlem Ave.	No Listing	
Tax Map 540 Par. C1	Harwood Hts, IL 60706		
Gene Hoschar	2201 Homewood Rd.	(304) 863-8829	
Tax Map 540 Par. C1.1	Parkersburg, WV 26101		
David Starcher	2796 Pond Creek Rd.	(304) 863-6983	
Tax Map 640 Par. A	Belleville, WV 26133		
Daniel Thomas	P.O. Box 42	(304) 863-3135	
Tax Map 640 Par. B	Belleville, WV 26133		
Billy L. Townsend	3468 Big Pond Creek Rd.	(304) 863-5034	
Tax Map 640 Par. C	Ravenswood, WV 26164		
Jimmy Townsend	3010 Pond Creek Rd.	(304) 863-5594	
Tax Map 640 Par. C1	Belleville, WV 26133		
Billy L. Townsend	3468 Big Pond Creek Rd.	(304) 863-5034	
Tax Map 640 Par. C2	Ravenswood WV, 26164		
Mark A. Townsend	1665 Big Pond Creek Rd.	No Listing	
Tax Map 640 Par. C4	Murraysville, WV 26164		g
William D. Smith	5572 Pond Creek Rd.	(304) 863-8100 Rece	ved
Tax Map 580 Par. G	Murraysville, WV 26164	1,000	
Patricia S. Deal	P.O. Box 149	(304) 464-5381	2014
Tax Map 580 Par. H	Waverly, WV 26184	MAR 3 1	2014
Virgil F. Anderson	2285 Pond Creek Rd.	(304) 440-4395	
Tax Map 580 Par. I	Belleville, WV 26133	Office of Oil	and Gas
Linda L. Lemon	1488 Pond Creek Rd.	(304) 863-9507 WV Dept. of Environm	Bullar Fibles
Tax Map 580 Par. L	Belleville, WV 26133		

Name:	Address:	Phone:	
Sharon Smith	1939 Pond Creek Rd.	(304) 863-8480	
Tax Map 580 Par. G2	Belleville, WV 26133	(304) 803-8480	
Michael D. Stalnaker	1623 Pond Creek Rd.	(304) 863-9616	
Tax Map 580 Par. G3	Belleville, WV 26133	(301) 003 7010	
David B. Vance	1824 Pond Creek Rd.	No Listing	
Tax Map 580 Par. G4	Belleville, WV 26133	110 Eisting	
Ford Chapel Church	RR 1 Box 60-A	(304) 863-5554	
Tax Map 580 Par. G5	Belleville, WV 26133	(501) 005 5551	
Billy G. Stewart	1168 Greenbrier Creek Rd. (304) 429-4018		
Tax Map 580 Par. G6	Fort Gay, WV 25514	(60.) 125 1010	
Joyce Floyd	2289 Pond Creek Rd.	(304) 863-3586	
Tax Map 580 Par. I1	Belleville, WV 26133		
Ronald Friesenhengst	2071 Pond Creek Rd.	(304) 863-5779	
Tax Map 580 Par. I2	Belleville, WV 26133	(60.) 600 1	
Jason K Parsons	2277 Pond Creek Rd.	(304) 863-5370	
Tax Map 580 Par. I3	Belleville, WV 26133	(60.) 500 50.5	
Sherri L. Thomas	2065 Pond Creek Rd.	(304) 863-6947	
Tax Map 580 Par. I1A	Belleville, WV 26133	(60.)	
Inez E. Flinn	12 Oak Ln.	(304) 489-2205	
Tax Map 630 Par. C	Mineral Wells, WV 26150		
Herbert Galland	3697 Pond Creek Rd.	(304) 863-6521	
Tax Map 650 Par. C	Belleville, WV 26133		
Wanda Flinn	2038 Big Pond Creek	No Listing	
Tax Map 650 Par. D	Murraysville, WV 26164		
Roy G. Marcum	4023 5 th	(304) 781-5278	
Tax Map 600 Par. J	Huntington, WV 25710		
Jason M Brookover	44 Weatherby Ln.	(304) 863-9877	
Tax Map 600 Par. M	Washington, WV 26181		
Ronald Hartshorn	1908 Long Run Rd.	No Listing	
Tax Map 600 Par. O & R	Belleville, WV 26133		
Lewis R. Consigli	1600 28 th St.	(304) 295-5561	
Tax Map 600 Par. Q	Vienna, WV 26105		
Virgil W. Amos	502 Otto Run	No Listing	
Tax Map 660 Par. C	Murraysville, WV 26153		
Peggy Lee Smith	1850 Lee Creek Rd.	(304) 863-5694	
Tax Map 660 Par. F	Belleville, WV 26133		
Ron G. Quillen	3095 Wolfe Run Rd.	(304) 863-0383	
Tax Map 550 Par. E	Belleville, WV 26133		
Michael W. Alexander	3070 Wolfe Run Rd.	(304) 863-8979	
Tax Map 550 Par. C1	Belleville, WV 26133		
Duane N. Trembly	1106 28 th St.	(304) 295-8806	
Tax Map 550 Par. D2	Vienna, WV 26105	- Received -	

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.

Executed this <u>Alo</u> day of <u>Aug</u> , 2014.
Steep & Hunden
George E. Hudkins
Joan M. Hudkins
1
State of West Virginia
County of Gilmer
I, Danna S. M. Chicker. 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 day of
Given under my hand this 26th day of August, 2014.
. ,
Notary Public 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
State of West Virginia My commission expires January 22, 2023
County of <u>Collect</u>
I, Deana 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 <u>2011</u> day of <u>August</u> , 2014, has this day acknowledged the same before me, in my said County and State.
Given under my hand this 2014.
Notary Public

My Commission expires on:

Jan. 22, 2023

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



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.

Executed this 26 day of Queg , 2014.
Gent & Hughen
George E. Hudkins
Joan M. Gdudkins
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 20th 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.
Deana S. McVicker
My Commission expires on: Jan. 22, 2023 OFFICIAL SEAL Notary Public, State of West Virginia DEANNA S McVICKER 4230 Dusk Camp Run Road
State of West Virginia Sand Fork, WV 26430 My commission expires January 22, 2023
County of Gilmer
I, <u>Deanna S. McVicker</u> , 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 <u>2645</u> day of <u>August</u> , 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.
Notary Public
My Commission expires on: Jan. 22, 2023

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



Mark knowes
W000 County 03:35:41 PM
Instrument No 8578968
Date Recorded 08/26/2014
Document Type EASMT
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Additional \$6.00



LETTER OF TRANSMITTAL

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

	P.O. BOX 150, GLENVILLE, WV 26351 (304) 462-5634 • FAX (304) 462-5656						BATE S/29/14 JOB NO. 7657 ATTENTION Cindy Raines		
0:	WV D	WV DEP Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304				RE: Hudkins/Poston #1			
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	Charle								
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			:						
WE	ARE S	ENDING Y	OU ⊠ Atta	ched \Box	Under separat	e cover via		_the following items:	
		☐ Shop d	rawings	☐ Pri	nts	☐ Plans	☐ Samples	☐ Specifications	
		□ Сору о	f letter	☐ Ch	ange order			-	
	OPIES	DATE	NO.				DESCRIPTION		
_	1	· <u>-</u>		Origina	Recorded Cert	ificate of Cons	ent and Easement for Pe	enneco Hudkins/Poston #1	
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ТН	ESE AF	RE TRANSI	MITTED as ch	ecked be	elow:				
		☐ For ap	proval		☐ Approved a	s submitted	☐ Resubmit	copies for approval	
		⊠ For yo	our use		☐ Approved as			_copies for distribution	
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CC	PY TO	SLS Files							
	•			_		S	GNED: Deanna McVic	ker	

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



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