

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: 47-10701747, 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: GENE TOWNSEND #1

Farm Name: TOWNSEND, GENE W.

API Well Number: 47-10701747 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.
- 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

July 10, 2014

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

RE: Application for Deep Well Permit – API #47-107-01747

COMPANY: Penneco Oil Company

FARM: Townsend #1

COUNTY Wood DISTRICT: Harris QUAD: Lubeck

The application for the above company is **approved to drill to Rose Hill formation.**

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) ck# 17911

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

					107	2	444	
1) Well Operato	r: Penn	eco Oil C	ompany	494460033	Wood	Harris	Lubeck 7.5'	
				Operator ID	County	District	Quadrangle	
2) Operator's W	/ell Numb	er: Towns	send No. 1		3) Elevation	868'		
4) Well Type: (a	a) Oil	or Ga	sX		(
(t	(b) If Gas: Production X / Underground Storage							
		Deep	/ S	hallow				
5) Proposed Target Formation(s): Rose Hill Proposed Target Depth: 5,712' 6) Proposed Total Depth: 5,765' Feet Formation at Proposed Total Depth: Rose Hill 7) Approximate fresh water strata depths: 209', 260' 8) Approximate salt water depths: 1248', 1317', 1437'								
9) Approximate	coal sea	m depths	S: None					
10) Approximat	e void de	pths,(coa	al, Karst, other):	None				
11) Does land	contain co	al seam	s tributary to acti	ive mine? N	0			
12) Describe pro	posed we	ll work an	d fracturing metho	ods in detail (a	ttach additiona	I sheets if nee	eded)	
Drill and fracture st	imulate ne	w deep, co	nventional gas well	l			 :	
incité.					THE PARTY.			
13) TYPE S	PECIFIC	· ·	SING AND TUE	FOOTAGE	<u>am</u> Intervals	CEME	NT (MINDE	
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	$=$ \sim \sim \sim \sim \sim	
Conductor	20"	MC-50	81.3 #	30'	30'	CTS	7 (10)	
Fresh Water	13 3/8"	H-40	48.0 #	360'	360'	CTS	3/19	
Coal	9 5/8"	H-40	32.3 #	1520'	1520'	CTS	5 //	
Intermediate	7"	J-55	23 #	2115'	2115'	CTS	; /	
Production	4 1/2"	MAV65	10.5#	5712'	5675'	270 sa	cks	
Tubing						Red	ceived	
Liners						1 10	R 3 1 2014	
	Fackers. Killu.							
Size	s:					Of	fice of Oil and Gas	

	W-2A ev. 6-07)		1). Date:	:			_	
4	00.001)		2.) Oper	ator's Wel	l Number	Townsend	No. 1	
					State	County		Permit
			3.) API V	Vell No.:	47-			
		STATE	OF WEST VIRG	SINIA				
	DEPA	ARTMENT OF ENVIRONMEN					GAS	;
		NOTICE AND APPLICA	TION FOR A W	ELL WO	RK PERI	TIN		
4)		ner(s) to be served:	5) (a) Coal Ope	erator				
	(a) Name	Gene Townsend	Name					
	Address	1805 Lee Creek Road	Address					
		Belleville, WV 26133						
	(b) Name		(b) Coal Ov	wner(s) wit	h Declara	tion		
	Address		Name	Gene W. Tow	nsend			
			Address	1805 Lee Cre	ek Road			
		A		Bollovilla MA	26133			

Name (c) Name Address Address 6) Inspector Jamie Stevens (c) Coal Lessee with Declaration Address Name 105 Kentuck Road Address Kenna, WV 25248 Telephone 304-206-7775 TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator Penneco Oil Company Notary Public, State Of West Virginia Ву Stephen K. Schuman Lois A Brown 1552 Little Sandy Road Bruceton Mills WV 26525 Its: Designated Agent Address 6608 Route 22 Delmont, PA 15626 Telephone 724-468-8232 Subscribed and sworn before me this 1846 day of Notary Public My Commission Expires

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of out regulatory gous. 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 Office of Oil and Gas

Oil and Gas Privacy Notice

WV Dept. of Environmental Protection 03/06/2015

10701747

3145	(Domestic Mail O	MAIL _{TM} REC	overage Provided)
H 1	For delivery informa	tion visit our website	at www.usps.coms
	OFF	IGIAL	. USE
2370	Postage	\$ 140	
	Gertified Fee	330	Postmark
	Return Receipt Fee (Endorsement Required)	2.70	Here
	Restricted Delivery Fee (Endorsement Required)		
1710	Total Postage & Fees	\$ 7.40	
m	GENE TO	WNSEND	
7013		5 LEE CREEK	ROAD
	City, State, ZIP+4 BEL	LEVILLE, WV	26133
	PS Form 3800, August	2006	See Reverse for Instructions
			0.0

18149	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: GENE TOWNSEND 1805 LEE CREEK ROAD BELLEVILLE, WV 26133	A. Signature X
	3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes
2. Article Number (Transfer from service label)	רארב מוכבן בסססן סב
PS Form 3811, February 2004 Domestic Re	turn Receipt 102595-02-M-1540

Received

MAR 3 1 2014

Office of Oil and Gas WV Dept. of Environmental Protection

P46E 02E2 T000 0T2T ET02

SMITH LAND SURVEYING, INC.

P.O. Box 150 Glenville, WV 26351

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GENE TOWNSEND 1805 LEE CREEK ROAD BELLEVILLE, WV 26133

Completed Children Completed Children C



Print Name

SURFACE OWNER WAIVER

			SURFACE OWNER WAIVE	.N				
	County	Wood	Operator	Penneco Oil Co	mpany			
	## # \$ \$ # \ # *		Operator well nu	mber Townsend No	1			
		INSTRUCTIONS	TO SURFACE OWNERS NAM	ED ON PAGE WW2-A				
	If the surface appeared on to be the only or permits are various true owner immore. Chief, Office of Department of	tract is owned by more than he Sheriff's tax ticket on the wner who will actually recei lid for 24 months. If you do mediately if you know who it NOTE: YOU WHERE TO FILE CO f Oil and Gas Environmental Protection	WW2A is applying for a permit three persons, then these maland or because you actually ove these materials.) See Chanot own any interest in the suries. Also, please notify the well aRE NOT REQUIRED TO FILED TO MMENTS AND OBTAIN ADD	terials were served on y ccupy the surface tract. opter 22 of the West Vir face tract, please forward operator and the Office of EANY COMMENT.	you because your name In either case, you may rginia Code. Well work of these materials to the of Oil and Gas.			
	601 57 th St. St.							
	Charleston, WV 25304 (304) 926-0450 Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a dequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time. Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments. The Chief has the power to deny or condition a well work permit based on comments on the following grounds: 1) The proposed well work will constitute a hazard to the safety of persons. 2) The soil erosion and sediment control plan is not adequate or effective; 3) Damage would occur to publicly owned lands or resources; 4) The proposed well work fails to protect fresh water sources or supplies; 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation". If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should							
	List o		es. The Office maintains a list					
	to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy. VOLUNTARY STATEMENT OF NO OBJECTION I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through including a work order on F orm WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein. I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.							
	FOR EXECUT	TON BY A NATURAL PERS	ON FO	OR EXECUTION BY A C	ORPORATION, ETC.			
	Benell	Journall	Date 44-2014 Company	RE	CEIVED			
/	S	Signature	By Its	Office	Date			
(gerva wi	TOWNSEND	Ita	AP	R 11 2014 Date			

Environmental Protectate

Signature

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County_Wood Operator_Penneco Oil Company	Operator's Well Numbe	Townsend No. 1				
INSTRUCTIONS TO CO	OAL OPERATOR, OWNE	ER, OR LESSEE				
To the coal operator, owner, or less any objection you wish to make or are receivith the Chief of the Office of Oil and Gaby the Office. Mail objections to:	uired to make by WV Co	de 22-6-15, 16 or 17, must be filed				
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 operator/ owner/ lessee/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.						
FOR EXECUTION BY A NATURAL PERSON	FOR EX	ECUTION BY A CORPORATION, ETC.				
Marcell Journal Date Signature	Company Name By					
Col. ▼ Profession States	Its	Date				
	Sig	nature Date				

Office of Oil and Gas

APR 11 1814

WV Department of Environmental Protection

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**, its successors or assigns, for the drilling and operation of a deep well from the production of oil or gas at the location shown on the attached plat or survey. Easement must be passable by two wheel drive vehicle at all times past Candice Fleak's house and garage, except when snow or ice covered.

Executed this day of, 2014.
Genew Townsand
Betty Jo Toursend
State of West Virginia
County of To-Wit
I, <u>Enca Courts</u> , a Notary Public in and for the aforesaid County and State, do hereby certify that <u>Gene and Betty Townsend</u> , whose name is signed to the writing above, bearing date on the <u>Uth</u> day of <u>April</u> ,
2014, has this day acknowledged the same before me, in my said County and State.
Given under my hand this day of
My Commercial Protection Environmental Protection

Operator's Well Number	Townsend No.
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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
Gene W. Townsend	Penneco Oil Company	1/8	Please see attached
		ý	E
		1/	

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

Received

MAR 3 1 2014

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: Bv:Its: Penneco Oil Company

Stephen K. Schuman, Designated Agent

OIL AND GAS LEASE

This AGREEMENT is made and entered into this 10th day of March, 2011, by and between Gene W. Townsend and Betty Jo Townsend, husband and wife, whether one or more hereinafter referred to as Lessor, and Penneco Pipeline Corporation, a Pennsylvania corporation with its principal office located at 6608 Route 22, Delmont, PA 15626, hereinafter referred to as Lessee.

1. LEASING CLAUSE. In consideration of Ten Dollars (\$10.00) cash paid to the Lessor, the receipt of which is hereby acknowledged, and the covenants and agreements herein, Lessor grants, demises, leases and lets exclusively to Lessee for the purposes hereinafter stated all that certain tract of land situate in the District of Harris, County of Wood, State of West Virginia, on or near the waters of Lee Creek, and containing, 111.425 acres which is more fully described in that certain Deed from John S. Cather, Special Commissioner to Gene W. Townsend and Betty Jo Townsend and recorded in said clerk's office in Deed Book 723 at page 084 and and being land depicted by Tax Map 02-410, parcel E, and now or formerly bounded as follows:

On the North by Charles R. Flinn, 02-410-A1;

On the South by Lee Creek Road, small tracts and David M. Kemp;

On the East by Pleasant Hill Church Road. 02-410-C and 02-410-A1; and

On the West by Ralph J. Blair, Blaine Auville.

The foregoing property is hereinafter referred to as the premises, leased premises, leased property or the like.

2. PURPOSES. This lease is granted for the purposes of exploring for, drilling for, producing and operating for, transporting and marketing oil, gas, natural gasoline, coalbed methane, casing-head gas, condensate, related hydrocarbons, and all products produced therewith or therefrom, ("Oil and Gas") by methods now known or hereafter discovered. Lessor hereby grants Lessee the exclusive right to enter in, on and under the premises to: (i) conduct geological and geophysical surveys and explorations, and seismic testing; (ii) drill vertically, directionally, and horizontally, on, under and through the premises, operate for, treat, produce and market Oil and Gas; (ii) inject gas, air, water, and other substances to recover and produce Oil and Gas; (iii) drill wells, deepen, hydraulic fracture, complete, recomplete, treat and recondition drilled, producing and abandoned wells, and re-abandon wells on said land; (iv) transport through the premises Oil and Gas produced from the premises and from other property; (v) construct, use, maintain, operate, change, replace, repair and remove roads, pipelines, drips, tanks, stations, cathodic protection devices, houses for equipment, gates, meters, separators, regulators, electric lines, transformers and facilities, and other facilities; and (vi) all other rights and privileges necessary, incident to, or convenient for the economical operation of said land alone and conjointly with other lands for the exploration, production and transportation of Oil and Gas.

No well shall be drilled by the Lessee within two hundred feet (200') of any dwelling house now on said land except by the consent of the owner of the house.

Lessor agrees that except with the advanced written consent of Lessee, no house, outbuilding, well, or other structure will be construed or erected within two hundred feet (200') of any well, tank, line or other equipment or facility placed on said premises by Lessee.

3. TERM. This lease shall be in force for Five (5) years from an effective date of March 22, 2011 (herein referred to as "primary term"), and as long after the primary term as operations relating to the search or exploration for oil or gas are conducted on the premises or lands pooled therewith, or as long as oil or gas is capable of production therefrom or from lands pooled therewith, or this lease is maintained in force pursuant to any other provision hereof (the "secondary term"). The term "operations" in this lease means drilling of a well, the re-working, deepening or plugging back of a well or hole, completion, recompletion, fracturing, work in preparation for such activity, or other work conducted in an effort to obtain or re-establish production of Oil and Gas. Operations shall be deemed to be commenced when the first material is placed on the leased premises or when the first work, other than surveying, occurs on the premises which is necessary for such operations, and shall be considered to be "continuously prosecuted" if not more than one hundred eighty (180) days shall elapse between the completion or abandonment of one well or hole and the commencement of operations for another well or hole. If Lessee produces Oil and Gas from the premises or lands pooled therewith, drills a well capable of producing oil and gas on the premises, or pools or unitizes the premises with other property on which a well capable of production is situate, then any such well capable of producing Oil and Gas will continue this lease in force until surrendered. If a well is not producing, shut-in payments shall be made as hereinafter provided, and shut-in payments will continue this lease in full force and effect notwithstanding failure to produce a well or market production. The Lessor agrees that the consideration paid at the time of execution of this Lease, and royalty or shut-in royalty as provided herein, is full and adequate consideration for this Lease. There is no obligation to drill on the premises or to pool the premises with other property.

RIGHT TO EXTEND PRIMARY TERM. Lessee may, at its option, extend the primary term for an additional <u>NA</u> year period by the tender before the expiration of the initial primary term provided above, of an amount equal to the amount paid Lessor by Lessee at the execution hereof.

4. OPERATIONS. If, at the expiration of the primary term, a well capable of producing Oil and Gas is not located on the leased premises or on acreage pooled therewith, but Lessee is then engaged in operations or shall have completed a dry hole thereon within the primary term, this lease shall remain in force so long as operations are prosecuted with no cessation of more than ninety (90) consecutive days and, if operations result in a well capable of production of Oil and Gas this lease shall continue thereafter until abandoned. Lessee is granted the right, but does not have an obligation, to conduct operations on the leased premises. Any roadways and/or pipelines installed during the term of this lease, shall extend beyond the termination of this lease upon payment by Lessee to Lessor, as additional consideration for said easement rights, the amount of One (\$1.00) Dollar per foot, for any pipeline installed upon said property or the amount of (\$2.00) Dollars, per foot, for any road installed upon said property. The aforesaid easement rights shall be extended so long as the same are maintained and utilized by Lessee, its successors and assigns.

5. ROYALTIES. The royalty provided by this Lease is one eighth of the amount sold calculated at the wellhead by subtracting post production expenses from the amount received by Lessee. Lessor shall have the right to take one eighth of production in kind at the wellhead, provided that Lessor does not impede the production of Lessee's Oil and Garange (6/2015) Lessor must pay all costs incurred as a result of such election, including all costs to gather production. If Lessor does not elect to take royalty production in kind or impedes Lessee's production, then Lessee will market the royalty production and pay Lessor a royalty as provided herein.

If oil or gas is sold as produced at the wellhead, Lessee will pay Lessor an amount equal tender eighth (1/8th) of the price received by Lessee from the sale at the wellhead. The "wellhead" is the place where the well enters the ground at the surface.

surface.

Office of Oil and Gas.
If oil or gas is not sold at the wellhead, but transported from the well-to-page the Environmental Protection.

the price received at the wellhead by deducting from gross sales proceeds all costs and charges of transporting, treating, and processing the gas from the proceeds received at the point of sale.

Costs of Transportation and Marketing are Deducted from Sale Proceeds. In calculating the price received by Lessee from the sale of gas at the wellhead, the Lessor's royalty shall bear one eighth (1/8th) portion of transportation and processing costs and other costs incurred between the wellhead and the point of sale. When determining the amount of royalty due the actual and reasonable amounts paid or incurred for the following are deductible and will not be included in volumes sold or proceeds received when royalty is calculated:

- (i) <u>Gas Gathering and Transportation</u>. All third party costs, losses and charges in connection with transporting gas from the wellhead to the place where the gas is sold. Some of these deductible amounts are sometimes referred to as firm or interruptible gathering or transportation, compression, fuel, shrink, retainage or lost or unaccounted for; and
- (ii) <u>Processing and Dehydration</u>. All costs, losses and charges in connection with processing, removing butanes, ethanes and other liquid hydrocarbons, sulfur, water, hydrogen sulfide, and other substances, or otherwise treating any oil or gas produced from the premises, including costs incurred by Lessee that are paid to third parties; and
- (iii) <u>Transporting and Storing Oil</u>. Costs, losses and charges in connection with transporting oil to market (whether by truck or pipeline), and of storing oil off of the leased premises before sale.

In some instances the foregoing deductible charges are assessed as an amount or percentage of natural gas in decatherms or thousand cubic feet (volume deductions).

Royalty Payable on Gas Produced, Saved and Marketed. The royalty will be calculated using the amount of Oil and Gas the Lessee sells and is paid for from the premises but not on free gas, liquids lost, used or retained by the processor in connection with processing, gas used as fuel, or amounts that may be used or lost or unaccounted for and for which sales proceeds are not realized. Royalty will not be due on Oil and Gas injected to enhance recovery.

- 6. GAS EXCEPTED. Lessor hereby excepts and reserves from any well on said land producing gas Five Hundred Fifty Thousand (£50,000) cubic feet of gas per year, or such part thereof as Lessor requires for his own use in dwelling house on said land, at Lessor's own risk; subject, however, to the use, operation, pumping and right of abandonment by Lessee of its wells and pipelines on the premises and the terms of the executed GAS USE RIDER attached hereto and made a part of this lease. In the absence of such GAS USE RIDER, the right to take gas herein shall terminate. Lessor may at his own expense and upon written application, secure such gas by a service line laid to and connected either to any such well on said land or to Lessee's pipeline leading from such well to market, the point of connection to be designated by Lessee.
- 7. <u>SHUT-IN PAYMENTS</u>. If there is an unplugged Oil and Gas well or wells on the leased premises or on lands pooled therewith and oil and gas is not sold therefrom for any period longer than six months, this lease shall not terminate, but the Lessee shall pay as shut-in royalty for constructive production a sum equal to Fifty Dollars per well per month. Such shut-in royalty shall be due within a reasonable time following the shut-in period.
- 8. <u>DELAY RENTAL</u>: Lessee covenants and agrees to pay a rental at the rate of \$40.00 Dollars per acre annually, in advance, until a well producing oil and/or gas is drilled. The first delay rental payment shall be made within sixty (60) days of this Lease. Any rental paid for the time beyond the date of drilling of a well shall be credited upon the first royalty due upon the same. It is agreed that Lessee may drill or not drill on the leased premises, as it may elect, and that the consideration and rentals paid and to be paid, constitute adequate compensation for such privilege.
 - 9. PAYMENTS AND SUBDIVISION: All rental and royalty payments are to be mailed to:

Gene W. Townsend and/or Betty Jo Townsend, 1805 Lee Creek Road, Belleville, WV 26133

who is (are) hereby appointed agent(s) if designated as "Agent", to receive and receipt for the same and to receive notices given by Lessee. Lessee shall not be obligated to make payments or give notices to more parties than the lessor Agents designated in this paragraph. Lessee shall not be obligated to make payments to any individual payee or agent hereunder until such payments equal the sum of One Hundred Dollars (\$100.00), and if a lesser amount is due, payments shall be made at least once each calendar year. Lessee shall not be obligated to see to the application of any monies paid to Lessor or to the Agent(s) designated herein. The depositing of payments hereunder in any post office mail addressed as above set forth shall be deemed payment or tender hereunder. Notwithstanding the death of Lessor, payment or tender to the deceased Lessor shall be binding on the heirs, devisees, executors, administrators and personal representatives of Lessor and its successors in interest.

If the leased premises are now or shall hereafter be owned in severalty or in separate tracts, the leased premises nevertheless shall be developed and operated as one (1) lease, and all rentals, royalties and payments provided for shall be treated as an entirety and shall be divided among, and paid to, such separate owners of the Oil and Gas in the proportion that the acreage owned by each such separate owner bears to the entire leased acreage regardless of the location of any well on the premises. Failure to pay or error in paying any rental or other payment due hereunder shall not constitute a ground for forfeiture of this lease and shall not affect the obligation to make such payment, and Lessee shall not be considered in default on account thereof until Lessor has first given Lessee written notice of the non-payment and Lessee shall have failed to make payment for a period of sixty (60) days after receipt of such notice.

- 10. UNITIZATION. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the premises with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee, Lessor, or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization or order. A well drilled on any land pooled or unitized with land leased hereby shall be considered for all purposes of this lease (excepting only free gas rights, if any) a well drilled on the premises. Where Lessee forms a unit by contract right, it may, at its sole option, place of record a copy of its declaration of unitization. Lessor shall be provided with notice of the formation of unit(s) if required by the appropriate governmental authority. Lessee is granted the right to change the size, shape and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production of the net proceeds realized from the production of such unit, such proportional share of the royalty from each unit well as the number of the lease premises net acres included in the unit bears to the total number of acres in the unit; and for such purposes, Lessee may, at it's option, definitively rely on the acreage calculation of the local property tax assessment authorities. Drilling operations in preparation for drilling, production, or shut-in production from the unit, or payment of royalty or delay rental shall have the same effect upon the term of this lease as if a well were located the lease leasehold premises. A well may be drilled on the premises and completed on other property. The rights and obligations
- of this paragraph are subject to the pooling and spacing orders and provisions of governmental agencies with jurisdiction.

 11. SURRENDER. Lessee shall have the right to surrender this lease at any time as to the part or parts of the premises and with respect to the portion surrendered thereafter shall be released and discharged from all tarments, obligations, covenants and conditions herein, and this lease shall be terminated as to the land in respect to which a surrender is made. Recordation of a surrender in the proper county shall be, and be accepted and legal surrender of the Lessee's rights under this lease as to the land in respect to which the surrender is made.
 - 12. TITLE, CONVEYANCE OF PREMISES. Lessor hereby warrants generally and agrees to defend the title to

the property herein leased. Lessor hereby warrants that (i) the leased premises are not encumbered by any enforceable oil or gas lease of record or otherwise and that (ii) Lessor is not currently receiving any bonus, delay or other rental, production royalty or shut-in royalty or other payment as the result of any prior Oil and Gas lease(s) covering any or all of the subject property, and that (iii) any wells drilled upon the leased premises or upon any lands with which the leased premises have been combined or pooled in a drilling or production unit have been plugged and abandoned. Lessor further covenants and agrees that if Lessor's title to the leased premises shall come into dispute or litigation, or, if, in the judgment of Lessee, there are bona fide adverse claims to the Oil and Gas leased hereby or the rentals or royalties herein, then Lessee, at its option, may withhold the payment of rentals or royalties until final adjudication or other settlement of such dispute, litigation, claims or claim, or institute proceedings to resolve the same. Lessee, at its option, may pay and discharge any taxes, mortgages or other lien or liens existing, levied, assessed or which may hereafter come into existence or be levied or assessed on or against the premises, and, in the event it exercises such option, Lessee shall be subrogated to the lien and any and all rights of any holder or holders thereof, and may reimburse itself by applying to the discharge of any such mortgage, tax, or other lien or liens, any rental or royalty accruing hereunder. Lessor further agrees to notify Lessee in case of notice of any adverse claim or suit filed affecting the title to the leased premises or affecting all or any part of the rentals or royalties hereunder, and in the event suit is not pending, Lessee may file same, and in either event Lessee may hold the rentals and royalties until the ownership is determined by final decree of a court of competent jurisdiction without in anywise affecting its rights hereunder. In case of a conveyance of all or a part of the leased premises, Lessee may continue to make payments to Lessor until furnished with a certified copy of any such deed of conveyance or other documents or proof to enable the Lessee to identify the land conveyed and the parties to whom conveyed; or on written notice of any such conveyance the Lessee may hold all payments until furnished with documents or proof, and in case of any division shall apportion the rental according to acreage.

13. FEDERAL AND STATE LAWS, FORCE MAJEURE. All express or implied covenants of this lease shall be subject to all Federal and State Laws, Executive Orders, Rules and Regulations and this lease shall not be terminated, in whole or in part, nor Lessee held liable in damage, for failure to comply herewith, if compliance is prevented by, or if such failure is result of any such law, order, rule or regulation, whether or not subsequently determined to be invalid, or if prevented by an Act of God, of the public enemy, labor disputes, inability to obtain material, failure of transportation, or other cause beyond the control of the Lessee. Lessee's obligations shall be suspended so long as any of the abovementioned causes persist, and Lessee shall have ninety (90) days after the cessation of such cause in which to resume performance of this lease.

If, during the term of this lease, oil or gas is discovered on the premises, but Lessee is prevented from producing the same by reason of the causes set out in this section, this lease shall nevertheless be considered as producing and shall continue in full force and effect until Lessee is permitted to produce and market the Oil and Gas, and as long thereafter as a well is capable of production, or drilling or re-working operations are continued as elsewhere herein provided.

14. <u>BREACH OF OBLIGATIONS</u>. The breach by Lessee of any obligations arising hereunder shall not work a forfeiture or termination of this lease nor cause a termination or reversion of the estate created hereby nor be grounds for cancellation hereof in whole or in part unless Lessor shall notify Lessee in writing of the facts relied upon in claiming a breach hereof, and Lessee, if in default, shall have sixty (60) days after receipt of such notice in which to commence the compliance with the obligations imposed by virtue of this instrument, and if Lessee shall fail to do so, then Lessor shall have grounds for action in arbitration for such remedy to which Lessor may be entitled.

It is agreed that this lease shall never be terminated, forfeited or cancelled for failure to perform in whole or in part any of its implied covenants, conditions or stipulations, until it shall have been first finally judicially determined such failure exists, and after such final determination, Lessee is given a reasonable time therefrom to comply with any such covenants, conditions or stipulations.

- 15. OUTSTANDING INTERESTS. The royalty and rents payable hereunder equals the total royalty and rentals payable to all the owners of all the Oil and Gas in place underlying the entire premises. Should Lessor own a lesser interest than the full and complete ownership of all the Oil and Gas, then Lessor shall receive such portion of the rentals or one eighth royalty as Lessor's interest bears to one hundred percent of the Oil and Gas estate. Lessee shall not be required in any event to increase the rental or royalty payments hereunder by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by Lessor or predecessors in title or otherwise; and if the Lessor does not have title to one hundred percent of all of the Oil and Gas underlying the leased premises. Lessor shall refund to Lessee such part of all payments made by the Lessee hereunder, as shall be proportionate to the outstanding title, and payments thereafter to be made shall be reduced.
- 16. METERING, USE OF WATER, OIL AND GAS IN PRODUCTION AND MARKETING. Gas produced from the premises may be measured by a single meter, and that meter need not be on the premises. Gas may be measured by a master meter, and it is not necessary to meter every well on the premises, so long as a reasonable method of allocation is used and the total amount delivered at the master meter is reasonably allocated among all the wells behind the master meter. If a master meter is used and line loss occurs, Lessee may reasonably deduct and allocate line loss, if any, that occurs on or off the premises, to meters behind the master meter and pay royalty on the net amount of gas allocated to the well at the wellhead after allowance for line loss and unaccounted for gas.

Oil and Gas produced from the premises may be used in drilling, producing, compressing, treating, processing, gathering and transporting oil or gas to market on or off the premises, and royalty will not be payable on the amount so used.

Lessee shall have the right to use water on and off the premises in connection with its operations, to construct and use damns and impoundments, and fracture and complete wells.

Lessee shall have the privilege of using Oil and Gas, rock, surface rock from the leased premises to construct roads and run all machinery necessary for drilling and operating for Oil and Gas and the abandoning of any well on said premises, and at any time removing all machinery and fixtures placed on said premises, all without payment therefore. For example, but not by way of limitation, gas may be used for fuel for compression without payment of royalty on the gas used.

17. ARBITRATION. Any and all claims in connection with this lease shall be submitted to arbitration with a panel of three arbitrators, and arbitration shall be the exclusive method of resolving all disputes in connection with this 22606/2015 and all rights, obligations and operations pursuant thereto. The Lessor will choose one arbitrator the Lessee will choose a second arbitrator, and the two arbitrators chosen will choose the third arbitrator. In the event are fait for choose in arbitrator within forty days of demand for arbitration, one or more arbitrators may be appointed by any state of tederal court in West Virginia in any jurisdiction in which any portion of the leased premises is situate. Arbitration shall then occur with reasonable dispatch in accordance with the rules of the American Arbitration Association, and in the county seat of the county where a majority of the leased premises is situate.

18. ENTIRE CONTRACT. This lease and ADDENDUM TO OIL AND GAS LEASE embodies the entire contract and agreement between Lessor and Lessee, and no warranties, representations, promises or inducements not herein and Gas

expressed have been made or relied upon by either party. The terms and conditions hereof shall extend to respective heirs, executors, administrators, successors and assigns of the parties hereto.

WITNESS the following signatures and seals the day and year first written.

Witness:

PENNECO PIPELINE CORPORATION

Ben L. Wallace

THIS INSTRUMENT PREPARED BY:

Shannon S. Johnson Whose Address Is: 6608 Route 22 Delmont, PA 15626

(West Virginia Acknowledgement - Individual) STATE OF WEST VIRGINIA § COUNTY OF WOOD

AIS INSTRUMENT PREPARED BY:
annon S. Johnson
hose Address Is:
08 Route 22
Ilmont, PA 15626

Lest Virginia Acknowledgement – Individual)
ATE OF WEST VIRGINIA

SOUNTY OF WOOD

The foregoing instrument was acknowledged before me this 10th day of March, Will, by Gene W. Townsend and Betty Jo Townsend.

Betty Jo Townsend.

Given under my hand and Notary Public Seal, this 10th day of March, A.D. 2011.

(Notary Seal)

JARRETT J. BARNHOUSE

My Commission Expires: November 2015 2019

COMMONWEALTH OF PENNSYLVANIA)

OWELL

COUNTY OF WESTMORELAND

On this, the day of hay, 2011, before me, a Notary Public, the undersigned officer, personally appeared Ben L. Wallace, who acknowledged himself to be the Chief Operating Officer of Penneco Pipeline Corporation, and that as such Chief Operating Officer, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation by himself as Chief Operating Officer.

In witness whereof, I hereunto set my hand and official seal.

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Eileen M Staub Notary Public Salem Twp.. Westmoreland County My Commission Expires May 15, 2013

Member, Pennsylvania Association of Notaries

Motory Public

03/06/2015

Received

MAR 3 1 2014

ADDENDUM TO OIL AND GAS LEASE

THIS ADDENDUM is attached hereto and made a part of that certain OIL AND GAS LEASE dated the 10th day of March, 2011 by and between Gene W. Townsend and Betty Jo Townsend as LESSOR(S) and Penneco Pipeline Corporation, as Lessee.

- 19.) In the event it is determined by the parties that Lessee's drilling operations have adversely or permanently affected the quality of Lessor's domestic water supply the Lessee shall, at its own expense, use reasonable and customary means to repair or correct such damages.
- 20.) Any fence or portion thereof, that is removed for access to the leased premises will be replaced by a fence of like quality. If permanent access is deemed necessary a gate will be installed at the point of entry and keys to such gate made available to Lessor.
- 21.) The surface disturbed areas on the leased premises will be restored as nearly as is practically possible to original contour and condition. Lessee shall maintain all reclaimed areas which were disturbed as a result of Lessee's operations herein in a workmanlike manner consistent with the statutes and regulations then governing such operations.
- 22.) Lessor and Lessee shall mutually agree to the location of roads drill-sites and pads as well as the location of pipelines and/or flow-lines provided that such approvals from the landowner are not unreasonably withheld.
- 23.) Lessee agrees to indemnify and hold harmless Lessor from all claims, damages, liabilities, causes of action or demand for personal injury or property damage arising from Lessee's operations on the leased premises excepting such claims that are attributable to Lessor's own intentional conduct or negligence.
- 24.) In the event of a conflict between the terms of this OIL AND GAS LEASE and the terms of this ADDENDUM TO OIL AND GAS LEASE, the additional terms shall be deemed to supersede the terms of the OIL AND GAS LEASE.

 24.) This OIL AND GAS LEASE is a Top Lease and O subordinate to the presently
- 24.) This OIL AND GAS LEASE is a Top Lease and Subordinate to two presently existing Oil and Gas Leases dated January 30, 2008 and recorded at Death Book 1124 at Page 635 and 637 respectively of the Office of the Recorder's at Word County and State of West Virginia the primary term of which was most recently extended and amended by instruments of extension dated March 21, 2010 and recorded at Deed Book 1150 and Page 026 and Deed Book 1150, Page 027 respectively of the Office of the Recorder's at Wood County and State of West Virginia, the primary term of both of which expires March 21, 2011. Lessors hereby covenant and agree that they will not extend, amend or modify said existing Lease. Upon termination of said Lease and provided said Lease is not held in force beyond said primary term by production, drilling and/or other provisions, Lessee will, within Thirty (30) days of such termination of pre-existing Lease pay Lessors the delay rental amount agreed to.

Witness:		LESSOR:
	d	Sens W Townsond 03/06/2015
	Received	Gene W. Tomasons
	MAR 3 1 2014	Betty Jo Townsend Betty Jo Townsend
	Office of Oil and Gas	Doug of Iovidolia

WW-2B1	
(5-12)	

Well	No.	Townsend No. 1	

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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

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

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

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

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

Certified Labora	atory Name	Reliance Labs	
Sampling Cont	rator Penneco Oil C 6608 Route 2 Delmont, PA	Smith Land Surveying, Inc Environmental Division	
			Received
Well Operator	Penneco Oil Co	mpany	144B 2 1 2224
Address	6608 Route 22		MAR 3 1 2014
	Delmont, PA 1	5626	
Telephone	724-468-8230		Office of Oil and Gas
•			WV Dent of Environmental Protection

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.

NOTE: There appears to be 11 +/- potable water sources within 1,500', therefore tests will be offered and samples taken as required.

03/06/2015

P.O. BOX 150, GLENVILLE, WV 26351

3041 482-3634 . FAX 402-5650

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR:	PENNECO GAS CO	OMPANY	
LEASE NAME	AND NUMBER:	Townsend #1 WELL PAD	

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed we I 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

(304)-X63 Source: <u>014</u> Certified	Wate	r Well
U/4 Certified	(3rd)	10/24/14
(304)-863	3-8434	
Source:	Wate	r Well
014 Certified	(3rd)_	10/24/14
(304)-863	3-3806	
Source:	Water	r Well
014 Certified	(3rd)_	10/24/14
(304)-300	1-2918	
Source.	Water	· Well
il 4 Certified	(3rd)_	10/24/14
	(304)-86) (304)-304 (304)-304 (304)-304	(304)-863-8434 Source: Wate 014 Certified (3rd) (304)-863-3806 Source: Wate 014 Certified (3rd) (304)-300-2918 Source: Wate (304)-300-2918

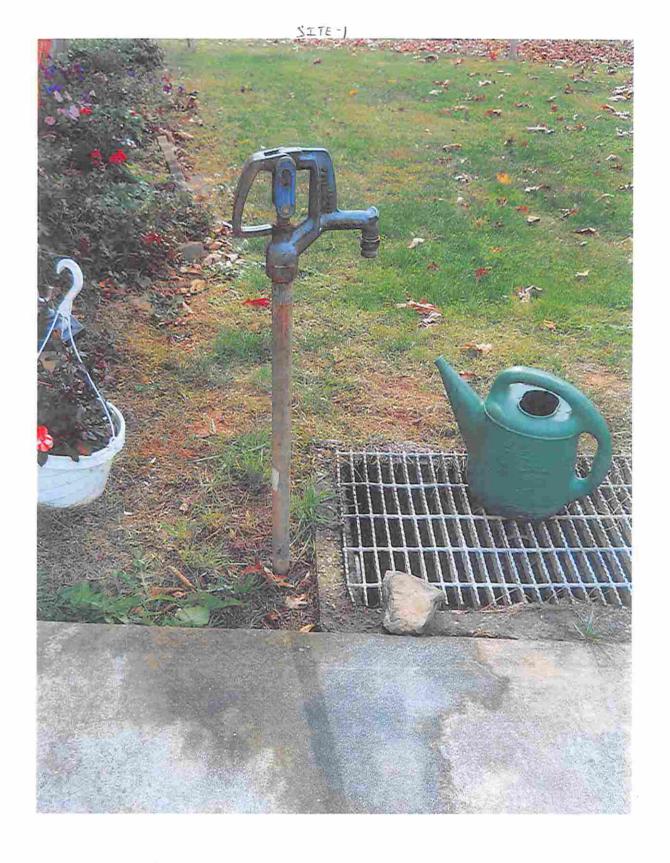
7659 PENNI CO TOWNSEND, waterfinal pe 1

Site. 5	Spacing	4540"	Owner/O	ccupant.	Richara	l Bonar		
Address:	177 digger L					Ph	(3(14)-3	300-2918
Field Contact					ate Located	11/21/201	√ Source:	Water Well
								ied (3rd) 10/24/14
Comments								· · · · · · · · · · · · · · · · · · ·
	Lat: 39.148							
	Long: 81.71	6389						
Site 6	Spacing	2360	_ Owner/C	Occupant	David I			
Address	1868 Lee cre				 .	Ph		
Field Contac					ate Located			
If No, declined	by who		_Let:er/Noti	ce Date: 19	a <u>10/28/2014</u>	2nd 111:3.	<i>I 2014</i> Certif	fied (3rd) 10/24/14
Comments	Tax Map 4	0, Parcel	15					
	Lat: 39,131	866						
	Long 81.70	14304						·
	_							
Site	-		_		Eva Sm			
Address	1772 Lee er					Ph		
Field Contac					ate Located		_Source:_	
					at 10/28/2015	2 2nd 11/3	1/2014 Certil	fied (3rd) 10/24/14
Comments				114				
	Tax Map 4	0, Parcels	1-1 and 14					
						· · · · · · · · · · · · · · · · · · ·		
Site x	Spacing		Owner/C	occupant.	Gary Si	muth		
	1850 Lee er		_	-		Ph		
Field Contac					ate Located	N/A	Source	Unknown
								fied (3rd) 10/24/14
								400, Parcels G. H
and I								
	No respons	e to certific	d letter as a	1:				
			-	•	George			
Address	1841 Lee cre					Ph:		
Field Contact					ate Located		_Source _	Unknown
Il No, declined I	•		-		k. <u>10/28/2014</u>	2nd 10/31	2014 Conf	ied (3rd) 10:24:14
Comments								
	No respons	· to certific	d letter as o	<u>/</u>				
Site (II)	Spacing		Owner/O	ccupant	Chris W	aldron		
	870 pleasant		-			Ph.		
Field Contact					ate Located	N. A	Source	Unknown
If No, declined t								ied (3rd) 10:24:14
Comments								
	No response			,				

7657 PLNNI CO TOWNSEND waterfinal, pg 2

Site	Spacing	Owner/Occupar	nt. <i>Blair</i>	ie Auvill	<u>ر.</u>		
Address.	10687 Harri:	v HWY. Belleville, WV 26133			Ph		
ield Contact	Date	N/A Located: No	Date Locat	ed	V/A	_Source	Unknown
f No, declined b	y who	Letter/Notice Date:	1st 10/28/20	<u>///</u> 2nd	10:31	/2014 Certifi	ed (3rd) 10:24/1-
Comments	Tax Map 40	0. Parcels A9 and B					
 	No response	to certified letter as of :					
Site. /2	Spacing	Owner/Occupa	nt.		Ph		
Field Contact	Date	Located:	Date Local	ted	-	Source	
II No. declined t Comments	by who	Letter/Notice Date:	1st	2nd		Certif	ed (3rd)
Site: 13	Spacing	Owner/Occupa	nt		Ph:		
Field Contact	Date	Located	Date Local	ted		Source:	
	oy who	Letter/Notice Date	1st	2nd		Certif	ed (3rd)
Sile. //	Spacing	Owner/Occupar	nt		Ph		
Field Contact	Date	Located	Date Local	had	- ' ''	Source	
		Letter/Notice Date					
Site 15	Spacing	Owner/Occupar	nt		0.		
Nudress	Date		D=4- 1		. Pfi	Carrage	
		Lotter/Notice Date:					
Site. 16	Spacing	Owner/Occupan	ıt				
Address					Ph:		
		Located Letter/Notice Date	Date Local	eu			ed (3rd)

7657 PLNNI CO TOWNSI ND,waterfinal, pg.3





2044 Meadowbrotk Raad | ²⁷ ○ Box 4657 Bridgeport, WV 20330 Phone: 304 842 5285 | Fax: 304 842 5351

Martinsburg Laboratory

Ridgefeld Euspess Center | 25 Comson Circle Markesburg VV 25403 Phone 304 596 2004 | Fax 304 596 2986

Certhopices: Wv Department of Houtiff #, 0(004, 0044, 1), WV Department of Energyments (Sychology #, 15), 1914 Mts Department of Energement #, 330, 332 | US Energyments Protection agency #, WV00042, WV40006.

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

Thursday, November 13, 2014

Page 2 of 5

GLENVILLE

WW

26351-

Lab Number: 221238-2014-DW Sample ID: (7659) BETTY TOWNSEND

Parameter	Value	Units	Mothod	Date/Time A	Date/Time Analyzed		MRL	MCL
Analyte Group: Inorganics								
E. Cali (Chromogenic)	ABSENT		SM9223B-97	10/29/2014	15.51	GP!		
To al Colform (Chromogenic)	ABSENT		SM9223B-97	10/29/2014	15.51	GP.		
pΗ	#7.45	5.U	SM4500H+B-00	10/29/2014	15 15	KV		
Tot if Aluminum	ND	mg/l-	EPA 200.8 R5.4	11/6/2014	13:34	MC	0.01	(0.05)
Fotal Arsenic	ND	mg/I	EPA 200.8 R5.4	11/6/2014	13 34	MC	0.005	0.01
Total Banum	0.119	mg/l	EPA 200.8 R5.4	11/6/2014	13.34	MC	3.31	2
Fotal Calcium	33.6	Tigeri	EPA 200 8 R5 4	13/6/2014	13 34	MC	0.01	
Total Chionde	141	Egen	EPA 300 0 R2 1	10/31/2014	1:20	KID	0.15	[250]
Fotal Dissolved Solids	720	mg/l	SM2540C-97	10/31/2014	9.15	GP.	10	[500]
Fotal Iron	ND	mg/t	EPA 200 8 R5.4	11/6/2014	13.34	MC	0.1	[0.3]
Total Manganese	140	mg/I	EPA 200 8 R5.4	11/6/2014	13 34	MC	0.01	[0.05]
Total Sodium	296	mg/I	EPA 200 8 R5 4	11/12/2014	11.52	THE	0.01	[20]
Total Sulfate	31.1	1000/5	EPA 300 0 R2 1	10/31/2014	1.50	KD	0.5	[250]
Total Surfactani	ND	mg/L	SM5540C-00	10/30/2014	12 35	CT	0.2	[0.5]

Remarks:

100992018 11500 Date Sample Collected Sample Submitted By: Date Sample Received 10/29/2014 Sample temp, upon receipt: 5/2 Deg C 10200014

Date Sample received: 52 Deg C. ND = Not Detected at the MDL or MRL.

MDL - Minimum Celectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Limit, USEPA Regulated MCL - Maximum Contaminant Limit, Non-Regulated

Miched Code: STANDARD NETHODS 19th EQ. BS EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83, US. EPA METHODS FOR THE DETERMINATION OF METALS IN CONTROMENTAL SAMPLES, MAY 1994. TEST METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Western that the Certification of Laboratories Analyzing Dinning Water, Shi ED. In accordance with EPA Regulations, all reports, including row data and quality control data, are maintained by the Laboratory for a minimum of 5 years.

(ACT): The swapper meets searchards and 55 of The Coultering and EC Cot by the Sales of West Organization of College (Acquisitions). Simple invested by College (ACT): No or fact Organization of College (ACT): The Conference of College (ACT): Simple invested by College (ACT): ACT or College (ACT): A C



2044 Meadowbrook Foad | P D Box 4657 Undgeport WV 25330 Phone 304 842 5285 (Fire 304 842 5351

Martinsburg Laboratory

Ridget etd Business Center) 25 Chmson Circle Martinsburg WV 25403 Prone 364 596 2084 | Fax 304 596 2086

Centifications: WV Department of treatm & 20056, 00482 (WV Department of Environmental Protection 6, 104, 301 MU Department of Environment 6, 100, 302 (US Environmental Englishman agency 6, WV00642, W640080)

SMITH LAND SURVEYING, INC. P D BOX 150

Thursday, November 13, 2014

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GLENVILLE

WV

Lab Number: 221238-2014-DW Sample ID: (7659) BETTY TOWNSEND

Parameter	Value	Units	Method	Date/Time Analyzod		Analyst	MRL	MCL
Analyte Group: <u>Total Petroleur</u>	n Hydrocarbor	15						
PH-DRO	NO	engri	SW8015B/3535A	11/6/2014	14.29	MC	9	
IP4-ORO	ND	(1927)	SW8015B/3535A	11/6/2014	14.29	MG	-1	
> Terphenyl (Surrogate)	135	75%	SW8015B	11/6/2014	14:29	MG		
Benzerie	ND	ings	SW8021B/5030B	11/6/2014	14:04	MC	0.0025	0.005
Ethylbenzene	ND	mgff	SW8021B/5030B	11/6/2014	14.04	ME	0.005	0.70
foluene	ND	mg/l	SW8021B/5030B	11/6/2014	14 04	MC	0.005	1.0
P4-G80	ND	ing/l	SW80158/5030B	11/6/2014	14.04	MC	0.2	
(ytenes	ND	(1957)	SW6021B/5030B	11/6/2014	14:04	MC	0.005	10)
4-Bromochlorobenzene (Surrogate	110	76	SW8021B	11/6/2014	14:04	MC		

Remarks:

Date Sample Collected 10/09/2011 19 30 Sample Submitted By Date Sample Received D-MORTE 1002NG3314

Sample temp, upon receipt: \$2.0=g.0. MDL - Minimum Detectable Limit. Sample twee, spon receipt. 3-2 (m.) G.

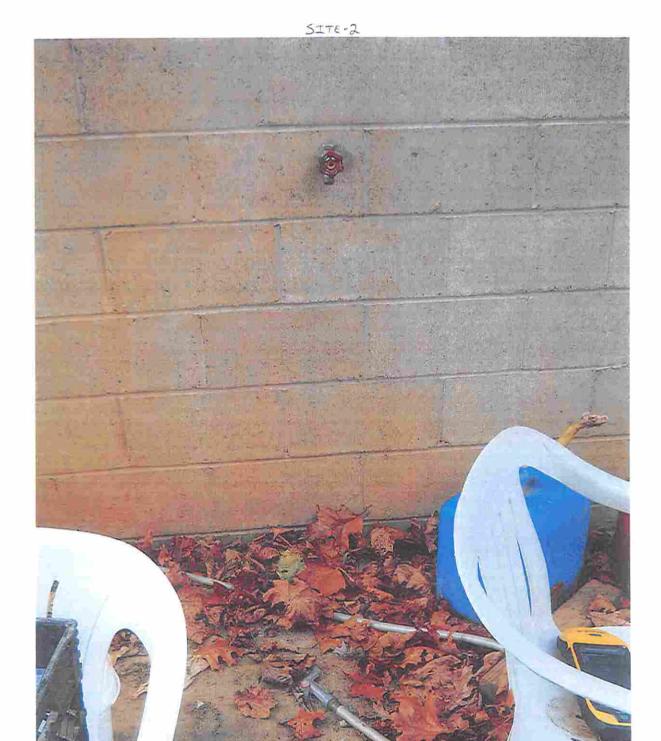
NDL: Ministerin Detectable Livel.

NO - Not Detected at the MOL or MRI.

IMALE - Maximum Contaminant Level, USEPA Regulated [MCL] - Maximum Contaminant Level, Nin Regulated

'Memod Code: STANDARD METHODS 1971 ED; US EPA METHODS FOR THE CHIMICAL ANALYSIS OF WATER AND WASTES, Rev. 83, US EPA METHODS FOR THE DETERMINATION
OF METACS IN LANGUAGE MINES AND THE SETS METHODS FOR STANDARD STORM WASTES, Rev. 83, US EPA Manual for Certification of Laboratories Analyzing
Drivating Water, fin ED. In accordance with EPA Regulations, all reports, including raw state and quality centrel data, are maintained by the Laboratory for a minimiser of 5 years.

1(2) T. The sample merics standards are for Total Coloror and C. Cell by the Sales of West Virginia 64-3-10, Cede of State Regulations
adopted and Y-2020 by the Universe for Indian Feath. Sample are satisfying and explosing virginial processing and processin





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Cedeciations, WV Department of Health #, 00344, 00467 | WV Department of Environmental Protection #, 156, 161, 260 Department of Environment #, 156, 307 | US Chalamenterial Protection Agency #, WV00547, WV00567

SMITH LAND SURVEYING, INC. P O BOX 150

Thursday, November 13, 2014

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GLENVALLE

WV

26351

Lab Number: 221239-2014-DW Sample ID: (7659) RANDALL BROWN

Parameter	Value	Value Units Method Date/Time Analyza		natyzod	Analyst	MRL	MCL	
Analyte Group: Inorganics								
E Coli (Chromogenia)	ABSENT		SM9223B-97	10/29/2014	15.51	CP		
Total Costorm (Chromogenic)	ABSENT		SM9223B-97	10/29/2014	15.51	CP		
aH	# 6 78	SU	SM4500H+B-00	10/29/2014	15.15	KV		
Total Aluminum	ND	nger	EPA 200 8 R5 4	11/6/2014	13.09	MC	0.01	[0.05]
Total Arsenic	ND	2302/6	EPA 200 8 R5 4	11/6/2014	131 (29)	MIL	0.005	0.01
Total Banum	0.132	110/	EPA 200 B R5.4	11/6/2014	13.09	MC	0.01	2
Total Calgum	26.5	Tig/f	EPA 200 8 R5.4	11/6/2014	13.09	MC	0.01	
Fetal Chloride	18.4	Tag/l	EPA 300 0 R2 1	10/31/2014	11.55	KD	0.15	[250]
Fotal Dissolved Solids	452	THEAT	SM2540C-97	10/31/2014	0.15	CP	10	[500]
Fotal Iron	D 100	mg/l	EPA 200 8 R5 4	11/6/2014	13.09	MG	0.1	[0.3]
Foral Manganese	ND	mgn	EPA 200.8 R5.4	11/6/2014	13.09	MC	0.01	10.051
Total Sodium	1261	mg/l	EPA 200 8 RS 4	11/12/2014	11.58	TH	0.01	[20]
Torul Sulfate	60.5	mg/i	EPA 300 0 R2 1	10/31/2014	11.55	KD	0.5	[250]
Toral Surfactant	810	man	SM5540C-00	10/30/2014	12 35	CT	0.2	[0.5]

Remarks:

Dat i Sample Collected Sample Submitted By: Data Sample Received DMORE

Sample temp, upon receipt 5.2 limb -MD - Meimum Detectable Limit

NO - Not Detected at the MDs. or MRt.

MD. Meimum Detectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USCIPA Regulated [MCL] = Naximum Contaminant Level, Ivon Regulated

MCI, - Naximum Contaminant Level, USEPA Regulated [MCI] - Naximum Contaminant Level, Ann Regulated

'Method Code: STANDARD METHODS 19TH ED, US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 23, US EPA METHODS FOR THE DETERMINATION
OF METALS BY ENVIRONMENT ALL, SAMPLES, May 1994, TEST METHODS FOR EVALUATING SOLID WASTES, SW 846, 3rd ED; USEPA Menual for Certification of Laboratories Analyzing
brisking Water, Mh ED, in accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the Jaboratory for a minimum of 5 years

#GELL. This sample menus darkdoods site. Trafe Coldition and E. Calkby the Date of Word Migna; 64:310. Of Table Regulations

#GELL 2005 by the Broads of Michael Standard and the manipular while Videous and Michael Standard and the manipular while Videous and Standard and Standard and the minimum control of the previous standard allower observables of the minimum control data and provided standard and the minimum control data and standard and the minimum control data and standard and the minimum control data and standard and the secondard and the minimum control data and standard and the secondard and the minimum control data and standard and the secondard an



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Gentications, WV Department of Health # 10054-10040 | WV Department of Liverprometral Presidence 4 150, 1811 MO Department of Environment # 120, 207 | US Environmental Protection Reports # WY00047 VGH0001

SMITH LAND SURVEYING INC. P 3 BOX 150

Thursday, November 13, 2014

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GLENVILLE

WV

Lab Number: 221239-2014-DW Sample ID: (7659) RANDALL BROWN

26351

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	Hydrocarbons							
IP4-DRO	NO	ngn	SW8015B/3535A	11/6/2014	15.26	MC	1	
rPH - ORO	ND	ngn	SW80158/3535A	11/6/2014	15.26	MC	1	
-Terphenyl (Surrogate)	115	76	SW80158	11/6/2014	15.25	MC		
Benzene	ND	ng/i	SW80218/5030B	11/6/2014	14.40	MC	0.0025	0.005
ir ytbenzene	ND	ngñ	SW80218/5030B	11/6/2014	14:40	MC	0.005	0.70
foliene	ND	rig/l	SW80218/5030B	11/6/2014	14/40	MC	0.005	1.0
IPH - GRO	ND	'ng/I	SW80158/5030B	11/6/2014	14 40	MO	0.2	
Cylenes	NO	ng/I	SW8021B/5030B	11/6/2014	14 40	MC	0.005	10
4-Bromochlerobenzene (Surrogate)	117	%+	SW80218	11/6/2014	14:40	MG		

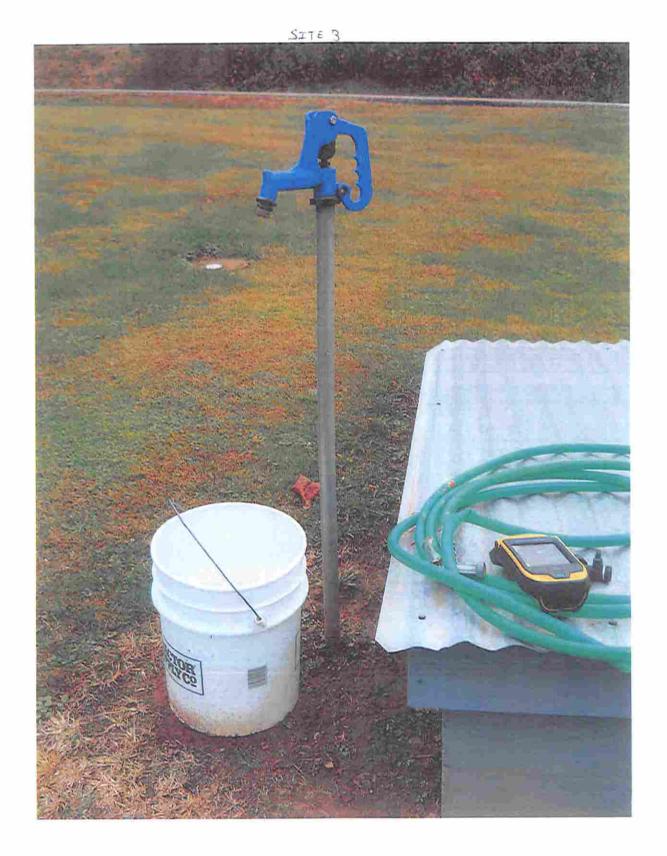
Remarks:

Dat / Sample Collected Sample Submitted By TD/29909014 Data Sample Received 100'00'014 Sample temp is pointed 5.2 Carg C.

NO - Not Detected at the MOL or MRL

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

MCL - Maximum Contaminant Level, USEPA Regulated (MCL) - Naximum Contaminant Level, USEPA Regulated (MCL) - Naximum Contaminant Level, USEPA Main and Laboratory Contaminant Level, USEPA Maria to Level, USEPA Maria to Contaminant Level, USEPA Maria to Level, USEP





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Destinations, WV Department of North # 00354-00443 | WV Department of Environmental Protection # 155, 1nt MC Department of Environment # 306, 337 | US Environmental Protection Alpung # WV00642, WV00463

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

Thursday, November 13, 2014

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GLENVILLE

WV

26351

Lab Number: 221425-2014-DW Sample ID: (7659) - LARRY SELLARS (1)

Parameter	Value	Units	Method	Method Date/Time An		Analyst	MRL	MCL
Analyte Group: Inorganics								
E Coli (Chromogenic)	ABSENT		SM9223B-97	10/31/2014	16:35	CP		
Total Goliform (Chromogenic)	ABSENT		SM9223B-97	10/31/2014	16:35	CP		
off.	#761	5.0	SM4500H+B-00	11/4/2014	14:55	KV		
Total Aluminum	ND:	mari	EPA 200.8 R5.4	11/6/2014	14 34	MC	0.01	[0.05]
Total Arsenic	ND	ng/f	EPA 200 8 R5 4	11/6/2014	14.34	MC	0.005	UUT
fotal Blamam	0.053	TIG/F	EPA 200 8 R5 4	11/6/2014	14:34	MC	0.01	2
fotal Calcium	74.3	192/1	EPA 200 8 R5 4	11/5/2014	14.34	MC	0.01	
Total Chloride	63.5	TH371	EPA 300 0 R2 1	11/4/2014	16.40	KD	0.15	[250]
Total Dissolved Solids	540	DOC	SM2540C-97	11/3/2014	1145	GP.	10	[500]
Total from	0.349	ng#	EPA 200.8 R5.4	11/6/2014	14:34	MC	0.7	[0.3]
fotal Manganese	NO	mg/l	EPA 200.8 R5.4	11/6/2014	14/34	MC	0.01	[0.05]
otal Sodium	129	Nger	EPA 200 8 R5.4	11/12/2014	12:04	TH	0.01	[20]
To al Sulfate	76.6	(TEG)/1	EPA 300.0 R2 1	11/4/2014	16:40	KĐ	0.5	[250]
Total Surfactant	ND	mg/I	SM5540C-00	10/31/2014	16.00	CT	0.2	[0.5]

Remarks:

Date Sample Collected. 1001/2014 D MCKCC Sample Submitted By: Date Sample Received 1901/0814 Sample temp, upon receipt 8.2 Deg C :13.20

ND + Not Detected at the MOL or MRL

MDL - Minimum Detectable Limit MRL - Misimum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated (MCL) - Maximum Contaminant Level, Non-Regulated

MCE- Maximum Contaminant Level, USEPA Regulated (MCE) - Maximum Contaminant Level, Non-Regulated

'Method Code: STANDARD METHODS 19DH EQ; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83, US EPA METHODS FOR THE DETERMINATION OF METALS ON EXPRONMENTAL SAMPLES, May 1904, TEST METHODS FOR EVALUATING SOLID WASTE, SW 8466, 3nd ED. USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, recluding raw data and qualify control data, are maintained by the lateratory for a minimum of 5 years, 10011. This surgest made a standards sen for Topic College and 2. College the State of Week Water, 5th ED. In accordance with EPA Regulations and the College of the State of Week Water, 5th ED. In accordance is the Topic College and 2. College the State of Week Water, 5th ED. In accordance with EPA Regulations and the State of Week Water, 5th ED. In accordance with EPA Regulations and the State of Week Water, 5th ED. In accordance with EPA Regulations and the State of Week Water, 5th EPA Regulations and the State of Week Water



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Centricitions, WV Oxportment of Hisper # 90354-00443 | WV Department of Environmental Protection # 15th 18th MD Expertment of Environment #, 190-337 | US Environmental Protection Repress #, WW0004C, WW00001

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

Thursday, November 13, 2014

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GLENVILLE

WW

26351-

Lab Number: 221425-2014-DW Sample ID: (7659) - LARRY SELLARS (1)

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: <u>Total Petroleum</u>	Hydrocarbons							
PH-DRO	ND	mg/l	SW8015B/3535A	11/6/2014	17.31	MG	1	
PH - ORO	ND	mg/l	SW8015B/3535A	11/6/2014	17.31	MG	1.	
-Terphenyl (Surrogate)	97.5	76	SW8015B	11/6/2014	17.31	MC		
lenzene	NO	rng/L	SW8021B/5030B	11/6/2014	15 40	MC	0.0025	0.005
thytbenzene	NO	rrsg/L	SW8021B/5030B	11/0/2014	15 40	MC	0.005	0.70
oluene	ND	mgal	SW8021B/5030B	11/6/2014	15.40	MC	0.005	1.0
PH-GRO	ND.	mg/l	SW8015B/5030B	11/6/2014	15.40	MC	0.2	
ylenes	ND	1007	SW8021B/5030B	11/6/2014	15 40	MC	0.005	10
4-3romochiorobenzene (Surrogate)	112	160	SW8021B	11/6/2014	15.40	MC		

Remarks:

Date Sample Collected 10/21/2014 D MOKEL Sample Submitted fly 10011/2014 3320 Date Sample Received Sample temp, upon receipt: #2 Deg C

ND - Not Detected at the MDL or MRI.

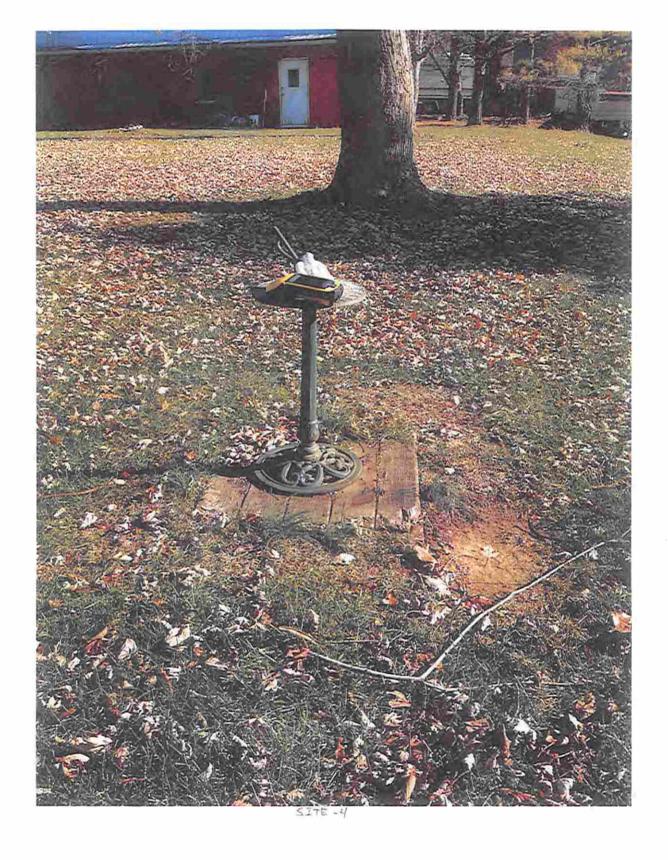
MDE - Minimum Detectable Limit MRE - Minimum Reporting Limit MCE - Maximum Contaminant Level, USEPA Regulated [MCL] - Maximum Contaminant Level, Non-Regulated

MCL. Maximum Contaminant Level, USEPA Regulation. [MCL] - Maximum Contaminant Level, Non-Regulated.

"Method Code: STANDARD MCDHODS 19TH CD, US CPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 63, US EPA METHODS FOR THE DETERMINATION OF MCTALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW.844, 3rd ED, USEPA Mannal for Certification of Laboratories Analysing Drivening Water, 5th ED, in accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the Laboratory for a merinium of 5 years, MCLIE, This sample meets standards in the Total Colderin and E. Coik by the Salde of Vived Syrgens Ind.3.10 Code of Battle Regulations and Code of Salde Regulations and Syrgens Ind.3.10 Code of Battle Regulations.

NOTE: 150 or No Detector indicates that the managebase value in collected in Section 1990 (1990) (1990

an inter-





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Cestifications: WW Department of Health # (80044-00442.] WV Department of Environments From the 1-94-94. MD Department of Environment # 105-037.] US Environments Projection Agency is WW000C, A0400401.

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

Monday, December 08, 2014

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GLENVILLE.

WW

26351

Lab Number: 222784-2014-DW Sample ID: (7659) BOWAR H2O WELL (1)

Paramoter	Value	Juits	Method	Date/Time A	Date/Time Analyzed		MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT		SM9223B-97	11/21/2014	16 36	CP		
Total Conform (Chromogenic)	ABSENT		SM9223B-97	11/21/2014	16.36	CF ²		
bl-1	# 6.84	SU	SM4500H+B-00	12/1/2014	13.15	KV		
fotal Alumeium	NO	ing/l	EPA 200 8 R5 4	12/1/2014	12.49	TH	0.01	[0.05]
fotal Arsenic	ND	mg/l	EPA 200.8 R5.4	12/1/2014	12:49	TH	0.005	0.01
Total Banum	0.104	175(37)	EPA 200.8 R5.4	12/1/2014	12:49	TH	0.01	12
otal Calcium	70.3	rng/l	EPA 200.8 R5.4	12/1/2014	12:49	TH	0.01	
fetal Chiorde	14.0	rng/l	EPA 300.0 R2 1	11/24/2014	17.27	KD	0.15	[250]
Total Dissolved Solids	444	mg/l	SM2540C-97	11/26/2014	5.45	CE:	10	[500]
Total Iron	0.529	mg/l	EPA 200.8 R5.4	12/1/2014	12.49	TH	0.1	[0.3]
fotal Manganese	0.105	mg/t	EPA 200.8 R5.4	12/1/2014	12.49	THE	0.01	[0.05]
Total Sodium	31.6	mg#	EPA 200 8 R5 4	12/1/2014	12.49	TH	0.01	[20]
liotal Sulfate	56.4	mg/l	EPA 300.0 R2 1	11/24/2014	17.27	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/21/2014	16 00	CT	0.2	[0.5]

Remarks:

ascruranta. Date Sample Collected 10.43 Sample Submitted By D. MOREE 11/21/2014 Date Sample Received: 11/21/2014 Sample temp upon receipt: 11 8 Deg C 113,25

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 [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] = Maximum Contaminant Level, USEPA Maximum Contaminant Contamina



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Certifications: Wv Debletzens of Heads # 30354, 90463. [WV Debletzens of Environmental Prosection # 15s. 103 6/3 Depletzens of Environment # 355, 357 [US Environmental Protection Agency # WV30342 WV00341

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

Monday, December 08, 2014

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GLENVILLE

WW

26351

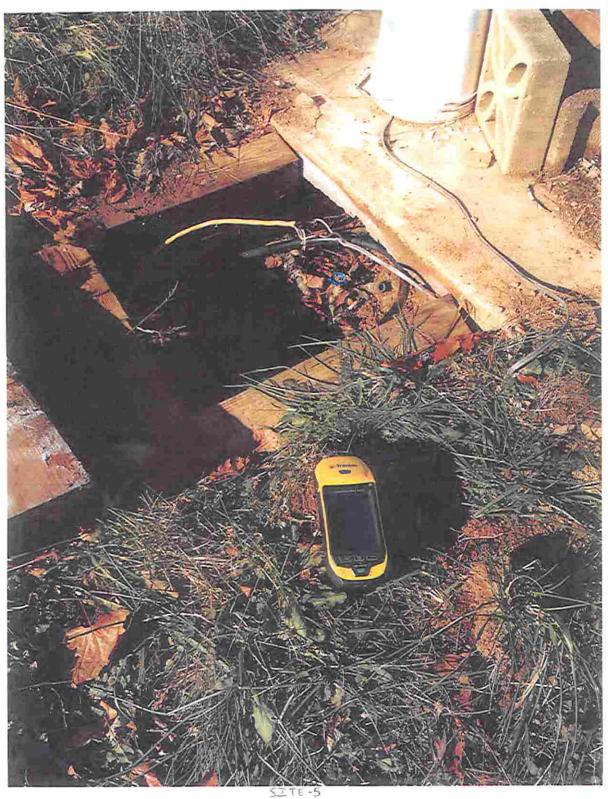
Lab Number: 222784-2014-DW Sample ID: (7659) BOWAR H2O WELL (1)

Parameter	Valuo	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: <u>Total Petroleu</u>	m Hydrocarbon	2						
PH-DRO	ND	mg/I	SW8015B/3535A	12/5/2014	11.55	MC	1	
PH-ORO	ND	/ng/l	SW8015B/3535A	12/5/2014	11.55	MG	1	
-Terphenyl (Surrogate)	99.0	96	SW8015B	12/5/2014	11.55	MG		
Serviene	ND	reg/i	SW8021B/5030B	11/26/2014	11.07	MC	0.0025	0.005
thylbenzene	ND	ring/2	SW8021B/5030B	11/26/2014	11:07	MC	0.005	0.70
oluene	ND	neg/t	SVV8021B/5030B	11/26/2014	11 37	MG	0.005	1.0
PH - GRO	ND	negri	SW8015B/5030B	11/26/2014	11 07	MC	0.2	
lylenes	ND	mg/l	SW8021B/5030B	11/26/2014	11 07	MC	0.005	10
4-Bremochlorobenzene (Surregate	2) 106-	150	SW8021B	11/26/2014	11.07	MG		

Remarks:

11/2/1/2014 10-81 Date Sample Collected: D MOKES Sample Submitted By

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, N





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Destructions, WV Department of Health # 10054-00443 T WV Department of Environmental Protection # 15h -this erdal Protection Agency # WV00042 WN000901 MD Department of Environment # 305, 337 | 455 Environ

SMITH LAND SURVEYING, INC. P O BOX 150

Monday, December 08, 2014

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GLENVILLE.

WV

26351

Lab Number: 222785-2014-DW Sample ID: (7659) BOWAR H2O WELL (2)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Inorganics								
E Coli (Chromogenic)	ABSENT		SM9223B-97	11/21/2014	16.06	CP		
To at Colforn (Chromogenic)	ABSENT		SM9223B-97	11/21/2014	16:06	CP		
H	#.6.93	SU	SM4500H+B-00	12/1/2014	13 15	KV		
Total Aluminum	ND	erig/I	EPA 200 8 R5 4	12/1/2014	12:53	TH	0.01	[0.05]
Total Arsenic	0.012	mga	EPA 200.8 R5 4	12/1/2014	12.53	714	0.005	0.01
Fotal Barium	0.025	mgd	EPA 200 8 R5.4	12/1/2014	12.53	TH	0.01	2
Total Calcium	124	figer.	EPA 200 8 R5 4	12/1/2014	12.53	TH	0.01	
Total Chloride	33.0	rrig/I	EPA 300 0 R2 1	11/25/2014	1.15	KD	0.15	[250]
Fotal Dissolved Solids	1084	mg/t	SM2540C-97	11/26/2014	8.45	GP	10	[500]
Fotal from	1.89	mg/t	EPA 200.8 R5.4	12/1/2014	12 53	TH	0.1	[0.3]
Total Manganese	0.869	mg/l	EPA 200 8 R5 4	12/1/2014	12.53	Tit	0.01	[0.05]
Total Sodium	115	mg/l	EPA 200 8 R5.4	12/1/2014	12.53	TH	0.01	[20]
Total Sulfate	397	mig/l	EPA 300 0 R2 1	11/25/2014	1.15	KD	0.5	[250]
Total Surfactant	ND	mg/l	SM5540C-00	11/21/2014	16.00	CT	0.2	[0.5]

Remarks:

110/10/014 D-MORGE Date Sample Collected: Sample Submitted By: 112212016 1375

Date Sample Received: 11/23/2016 Sample temp, upon receipt: 11.4 Deg.C

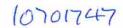
ND = Not Detected at the MDL or MRL

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

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

Michigal Code: STANDARD METHODS 19th EQ, US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Nev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR REVALUATING SOLID WASTE, SW 446, 3nd CD; USEPA Mannaif for Certification of Laboratories Analyzing Dissisting Water, Shi ED, in accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by this Laboratory for a minimum of 5 years, NOTE: The sample mones standards with EVE Took Content and E. Cort by the Date of Winst Village, od-21 IS Copie of State Hequilities, and RESISTAND AND

ALT: N





2044 Meadowbrook Rend | P.O. Box 4657 Bridgeport, WV 26336 Phone 304 842 5265 | Fax 304 842 5351

Martinsburg Laboratory

Redgebeld Business Center (25 Crimison Circle) Martinsburg, WV 25403 Phone 304 596 2084 | Fax: 304 596 2086

Derthications VW Department of Hearth # (8054-00443-) WV Department of Environmental Protection # 15n-181 MD Department of Environment # (30, 337-) US Environmental Protection Reports # (W000042-W000001

SMITH LAND SURVEYING, INC. P 0 BOX 150

Monday, Docember 08, 2014

Page 5 of 5

GLENVILLE

WW

26351

Lab Number: 222785-2014-DW Sample ID: (7659) BOWAR H2O WELL (2)

Parameter	Value	Units	Method	Date/Time Analyzed		Analyst	MRL	MCL
Analyte Group: Total Petroleum	Hydrocarbon	b.						
TPH - DRO	ND	rrig/I	SW8015B/3535A	12/5/2014	12.36	MC.	1	
TRH ORO	ND	rrsg/l	SW8015B/3535A	12/5/2014	12.36	MC	1	
-Terphenyl (Surrogate)	111	1%	SW8015B	12/5/2014	12:36	MG		
Benzene	NO	rrig/I	SW8021B/5030B	11/26/2014	12 44	MC	0.0025	0.005
thylbenzene	ND	mg/l	SW80218/5030B	11/26/2014	11 44	MC	0.005	0.70
foluene	ND	mg/l	SW8021B/5030B	11/26/2014	17.44	MC	0.005	1.0
PH - GRO	ND	ers(2/1	SW8015B/5030B	11/26/2014	11 44	AAC.	0.2	
Cylenes	ND	ragit	SW8021B/5030B	11/26/2014	11 44	MC	0.005	10
r4-Bromochlorobenzene (Surrogate)	106	%	SW8021B	11/26/2014	11.44	MC.		

Remarks:

11030014 1000 DEMORES Sample Submitted By Date Sample Received: 11/21/2014 Sample Irenp, upon receipt: 11.4 Deg C MDL - Minimum Detectable Limit MCL - Maximum Parts 1525

ND = Not Detected at the MDL or MRL

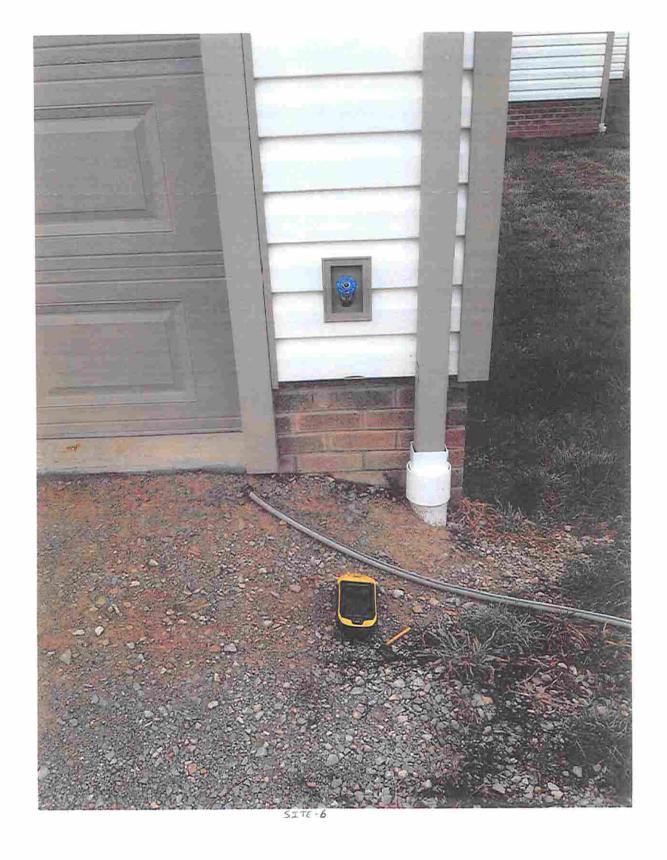
MDL Minimum Detectable Limit MRL - Minimum Reporting Limit MCL - Maximum Contaminant Level, USCPA floquiated [MCL] = Maximum Contaminant Level, Non-Regulated

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

*Method Code: STANDARD METHODS 19th EQ. US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 61, US EPA METHODS FOR THE DETERMINATION
OF METALS IN EXPROMENTAL SAMPLES, May 1961; EST METHODS FOR EVALUATIONS SOLD WASTE, KW-Ade, and ED, USEPA Manual for Certification of Cabinations Analyzing
Diriking Water, 5th ED. In accordance with EPA Regulations, at reports, including aswistat and quality control data, are maintained by the fationatory for a reminum of 5 years.

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Reliance Laboratories, Inc.

2044 Meadowbrook Road | P.O. Box 4657 Bridgeport, WV 26333 Phone, 304-042 5285 | Fax. 304-042 5351

Martinsburg Laboratory

Ridgefield Business Center (25 Comson Circle Martiniburg, WV 25403 Phone, 304 596 2084 | Fax: 304 596 2086

Senfications, WV Department of Meath # 00054-00443 | WV Department of Environmental Procession # 159-1011 MD Department of Environment # 306, 337 | ES Environmental Procedure Agency # WV0004, WV00000

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

Monday, December 15, 2014

Page 2 of 3

GLENVILLE,

WV

26351

Lab Number: 223262-2014-DW Sample ID: (7659) KEMP H2O WELL

Parameter	Value	Units	Method	Date/Time A	nalyzed	Analyst	MRL	MCL
Analyte Group: Inorganics								
E. Coli (Chromogenic)	ABSENT.		SM9223B-97	12/4/2014	13.54	CP		
Total Coliform (Chromogenic)	ABSENT		SM9223B-97	12/4/2014	13.54	CP		
4-	#7.44	SU	SM4500H+B-00	12/4/2014	16 15	KV		
otal Aluminum	ND	rng/l	EPA 200 8 R5.4	12/11/2014	12:53	THE	0.01	[0.05]
otal Arsenic	0.018	mg/t	EPA 200.8 R5.4	12/11/2014	12.53	TH	0.005	0.01
otal Banum	1.17	mg/t	EPA 200 8 R5.4	12/11/2014	12.53	TH	0.01	2
otal Calcium	6.43	mg#	EPA 200 8 R5 4	12/11/2014	12.53	TH	0.01	
otal Chloride	4.56	mga	EPA 300 0 R2 1	12/8/2014	18:52	KD.	0.15	[250]
otal Disselved Solids	298	mga	SM2540C-97	12/5/2014	9:00	CP	10	[500]
otal tren	ND	mg#	EPA 200.8 R5.4	12/11/2014	12.53	TH	0.1	[0.3]
otal Manganese	ND	mg/t	EPA 200 8 R5 4	12/11/2014	12:53	THE	0.01	[0.05]
ofal Sodium	100	mg#	EPA 200.8 R5.4	12/11/2014	12:53	TH	0.01	[20]
atal Sutfate	4.02	mg/li	EPA 300 0 R2 1	12/8/2014	18:52	KD	0.5	[250]
Total Surfactant	ND:	mg/l	SM5540C-00	12/4/2014	15 25	KD	0.2	[0.5]

Remarks:

12/4/2014 DIMOKET Date Sample Collected 16.00 Sample Submitted By: Date Sample Received 12/4/2014 3200

Sample temp, upon receipt: 10.8 Deg □ ND - Not Detected at the MDL or MPL MDL - Minumum Detectable Limit MRL - Monmum Reporting Limit MCL - Maximum Contaminant Level, USEPA Regulated (MCL) - Maximum Contaminant Level, Non-Regulated

MCL - Maximum Contaminant Liver, USEPA Regulated [MCL] - Maximum Contaminant Liver, Net-Regulated [MCL] - Maximum Contaminant Liver, USEPA Regulated [MCL] - Maximum Contaminant Liver, Net-Regulated Net-Regulated



Reliance Laboratories, Inc.

2044 Meadowbrook Food | P.O. Box 4957 Bridgeport, WV 26336 Phone, 304 842 5285 | Fax, 304 842 5351

Martinsburg Laboratory

Ridgefield (Nusiness Center | 25 Cronson Circle Multinsburg, WV 25403. Phone: 304-596-2084 | Fax: 304-596-2086.

Certifications, WV Department of Health # 00354, 00443, J. WV Department of Environmental Environment, 150, 101, MCD Department of Environment # 130, 337, J. US Environment# Protection Agency # WVG0042, VPVG0041

SMITH LAND SURVEYING, INC.

P.O. BOX 150

Monday, Docember 15, 2014

Page 3 of 3

GLENVILLE,

WV

26351

Lab Number: 223262-2014-DW Sample ID: (7659) KEMP H2O WELL

Parameter	Value	Units	Method	Date/Time An	alyzed	Analyst	MRL	MGL.
Analyte Group: <u>Total Petroleun</u>	Hydrocarbons							
IPH-DRO	NO	ng/I	SW8015B/3535A	12/10/2014	14:35	MC	1	
IPH - ORO	NO	ng/l	SW8015B/3535A	12/10/2014	14.35	MC	1	
-Terphenyl (Surrogate)	111	16	SW8015B	12/10/2014	14.35	MC		
Be/tzene	ND	ngn	SW8021B/5030B	12/4/2014	15 22	MC	0.0025	0.005
Ethylbenzene	ND	mg/l	SW8021B/5030B	12/4/2014	15.22	MC	0.005	0.70
Totuene	ND	ng/l	SW8021B/5030B	12/4/2014	15:22	MC	0.005	1.0
TPH - GRO	140	тел	SW8015B/5030B	12/4/2014	15.22	MC	0.2	
Kylenes	ND	1107/1	SW8021B/5030B	12/4/2014	15:22	MC	0.005	10
4-Bramochiorobenzene (Surrogate)	87.4	36	SW8021B	12/4/2014	15:22	MC		

Remarks:

Date Sample Collected (20002)354 record DMOREL Date Sample Received 12/8/2014:

Sample temp, upon receipt. 10 8 Deg ⊂ MDL - Minimum Detectable Limit.

NO - 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:

"Method Code: STANDARD MILTHODS 197H ED; Us EPA METHODS FOR THE CHMICAL ANALYSIS OF WATER AND WASTES, Rev. 63, LS EPA METHODS FOR THE DETERMINATION OF MICHAEL STATES. SET METHODS FOR THE DETERMINATION OF MICHAEL STATES. SET METHODS FOR INVALIDATION OF MICHAEL STATES. SET METHODS FOR INVALIDATION OF MICHAEL STATES. SET METHODS FOR INVALIDATION OF MATERIAL STATES. SET METHODS

P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

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: 10/16/14

Left/sent by: <u>Daniel McKee</u>

Well Number: Townsend Lease Well No. 1

Tax Map / Parcel: 410/11 and 14 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.

Signature: 6 va M. Smith Date: 10 - 26-2014





7013 1710 0001 2370 3390

RANDALL LEE BROWN SAI 71763 LEE CREEK RD BELLEVILLE, WV 26133



ional Energy



150 / 26351



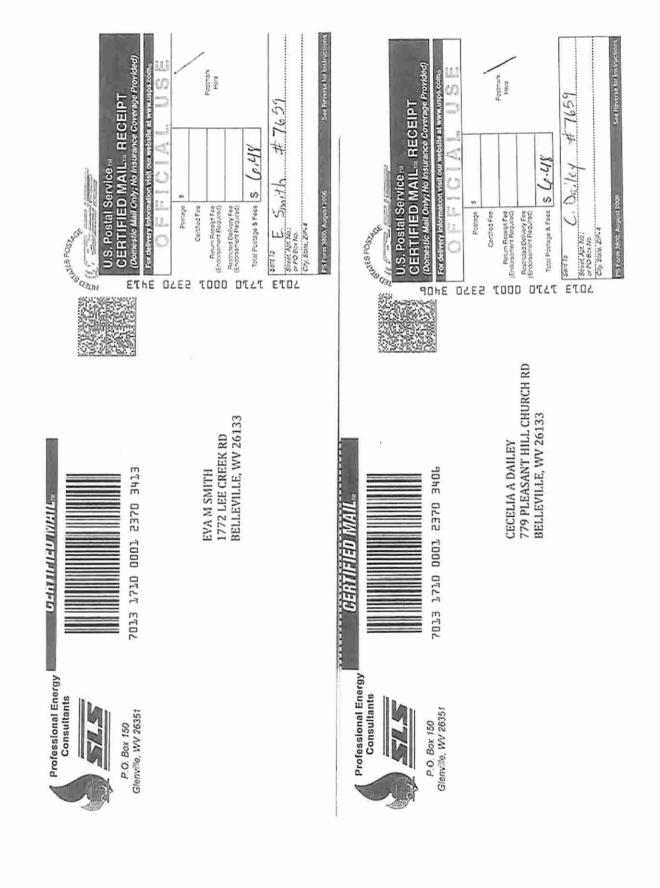
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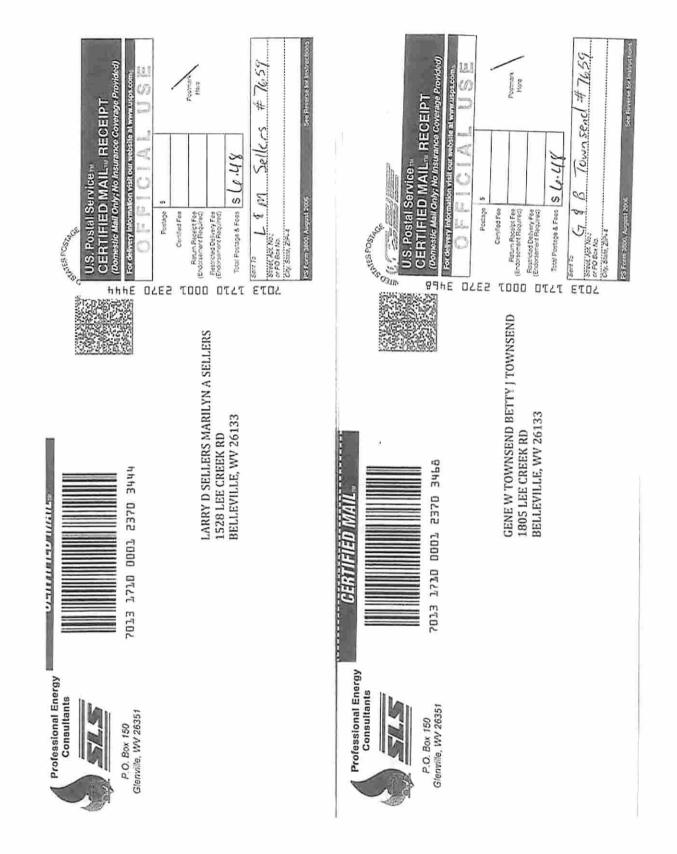
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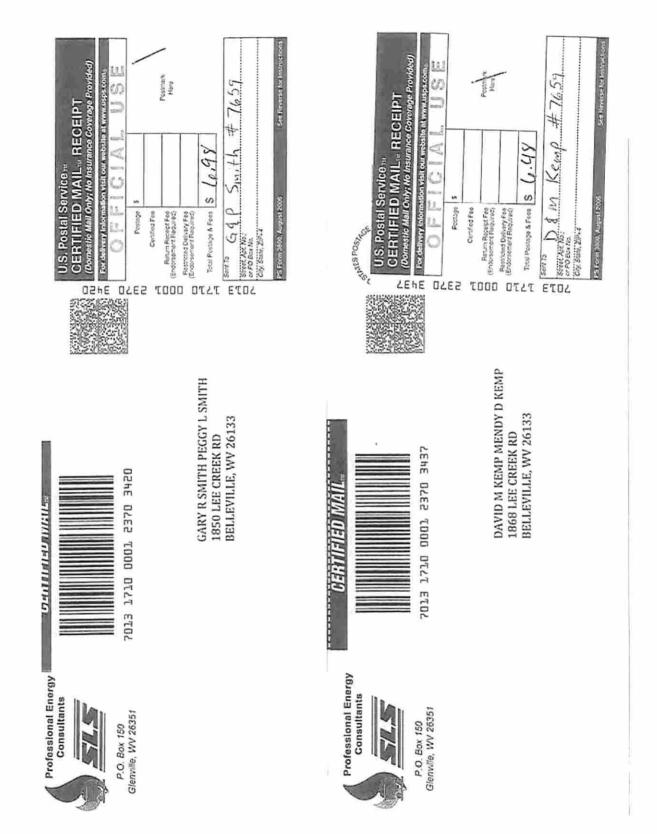


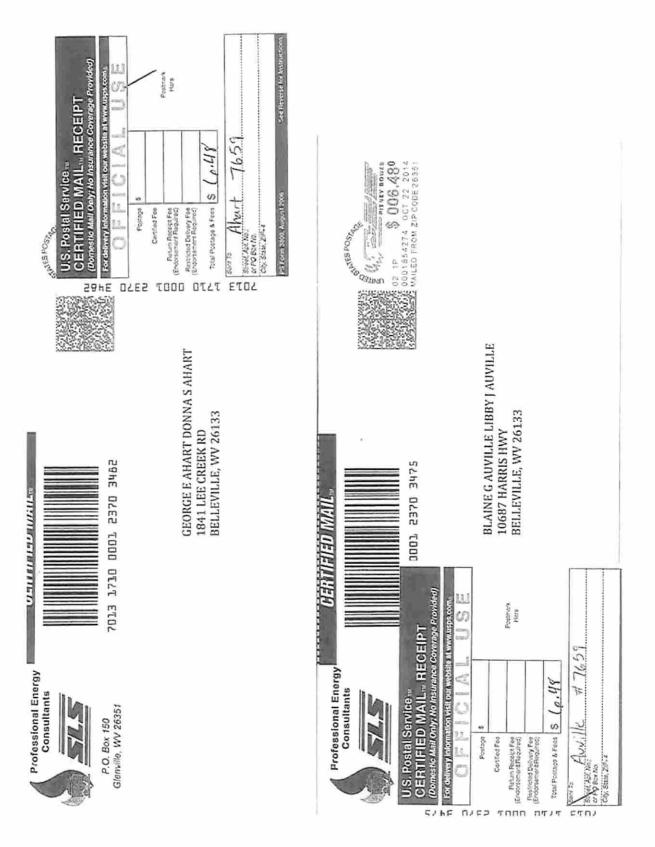
CHRIS E WALDRON MARCELLA L WALDRON 870 PLEASANT HILL CHURCH RD BELLEVILLE, WV 26133











Professional Energy
Consultants
P.O. Box 150
Gienville, WV 26351



RICHARD F BONAR DEBORAH K BONAR 177 DIGGER DR BELLEVILLE, WV 26133



WW-9
(5/13)

	Page of
API Number 47 -	4
Operator's Well No	O. Townsend No. 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)_South Fork of Lee Creek & Tributary of Middle Fork of Lee Creek QuadrangleLubeck 7.5'
Elevation 868' 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? YesX No If so, please describe anticipated pit waste: Drill water and various formation cuttings Will a synthetic liner be used in the pit? YesX No If so, what ml.? 60 Proposed Disposal Method For Treated Pit Wastes: X Land Application
Underground Injection (UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain_Solidified with cement and encapsulated and buried
Will closed loop system be used? No Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air/Water -If oil based, what type? Synthetic, petroleum, etc.
Additives to be used in drilling medium? Soap Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit - Encapsulated and buried
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_Cement -Landfill or offsite name/permit number?
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August I, 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 1946 day of March , 20/4 Notary Public
My commission expires August 22, 2017 Notary Public, State Of West Virginia Lois A Brown 3,006/20 1552 Little Sand Andre Bruceton Mills WV 26525 My commission expires August 22, 2017

Operator's Well No. Townsend #1

		LEGEND	
Property Bounds	ary	Diversion cerecularity	www.iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
Rond = = =		Spring O	
	× × ×	_	
Planned Fence	///		
Stream ,	1.7	Waterway C	\leftarrow
Open Ditch -			
Rock &			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N		Pit: cut walls	- Marie
Buildings	<u> </u>	Pit: compacted fill walls	
Water wells		Area for Land Application 6	
Drill site			
Lime 3	10-20-20 or equivalent) 1/	Prevegetation correct to pH 6.5 3 TON lbs/acre (500 lbs minimum) 2 Tons/acre Seed Mixtures	pH
	Area I		Area II
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOV	ER 5	ALSIKE CLOVER	5
ANNUAL RYE	15		
	location, pit and proposed an of involved 7.5' topographi		
Plan Approved by:		mes planes.	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT
Comments:	·· - · · · · · · · · ·		the three contracts with a contract and another than the second of the s
Title:		Date: 3/11/2	1914
		- The first of the first of	
Field Reviewed?	, //		
Feet is	Yes	()No	03/06/20

10701747

Form WW-9

Gene Townsend Lease

2014

3 1

Office of Oil and Gas

MAR

CONSTRUCTION HERE BEGIN NEW

of. page

SCALE

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

CUT & STACK ALL MARKETABLE TIMBER

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL

Well No. 1 EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED

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

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

Received

475'±@ 300'±@ 37,581 0%-5% 100'±@ 09/0-50/0 1 150' ±@ \$ 03/0-S3/0 5%-10% 1135'4@ 10%-15% 325'+@ EXISTING DRIVEWAY WITH DRAININGE DEVICES IN PLACE TO HERE! INSTALL IN MINIMUNA of Environmental Protection 5%-10% JE5'+@ OVER HEAD 130'±@ 0010-5010 GARAGE | 365'±@

PIT NO WV De FILL 50000 DETAIL SICETCH SCHARGET שרוש FIELD FUR CUT è CINELIAM F/ELO FIELD る中 Q. 14

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SMITH LAND SURVEYING, INC.

Phone: (304) 462-5634 Fax: 462-5656 email: sls@slssurveys.com

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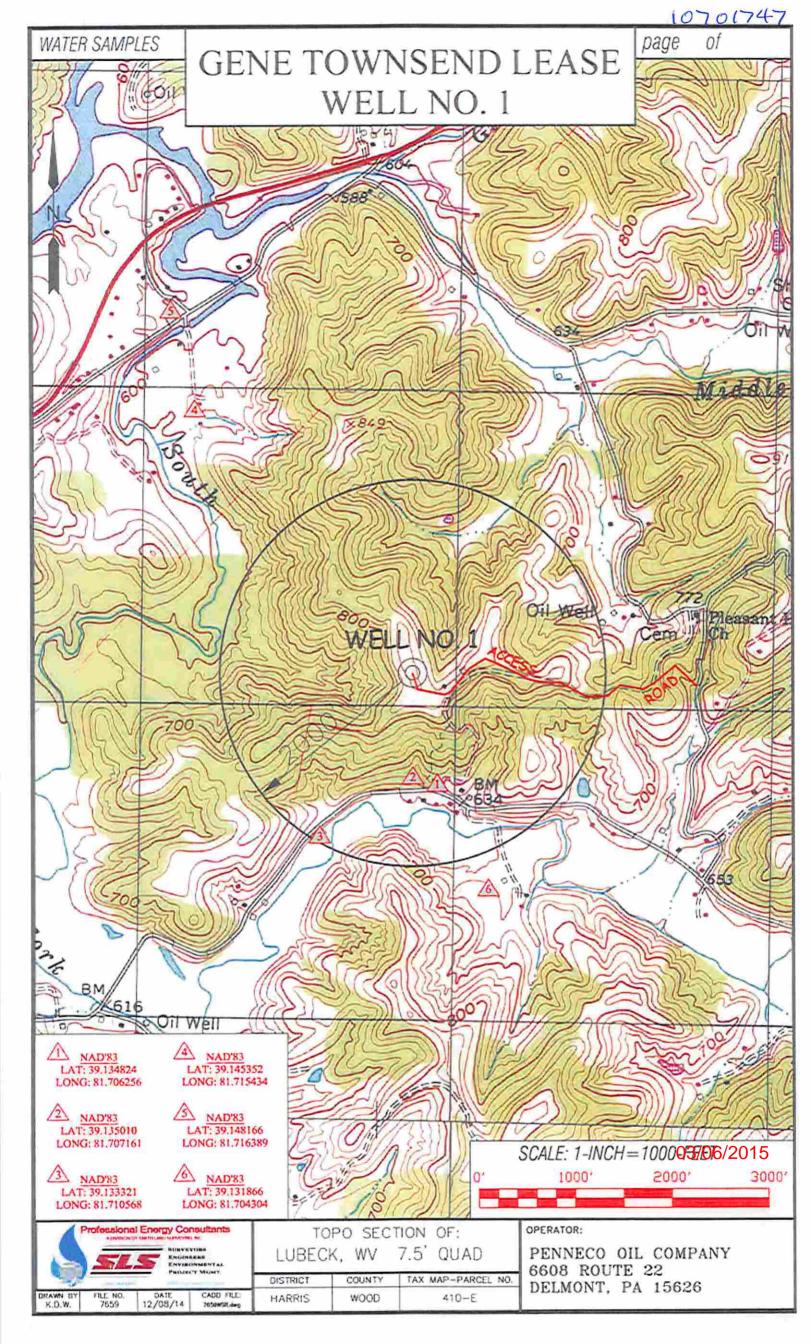
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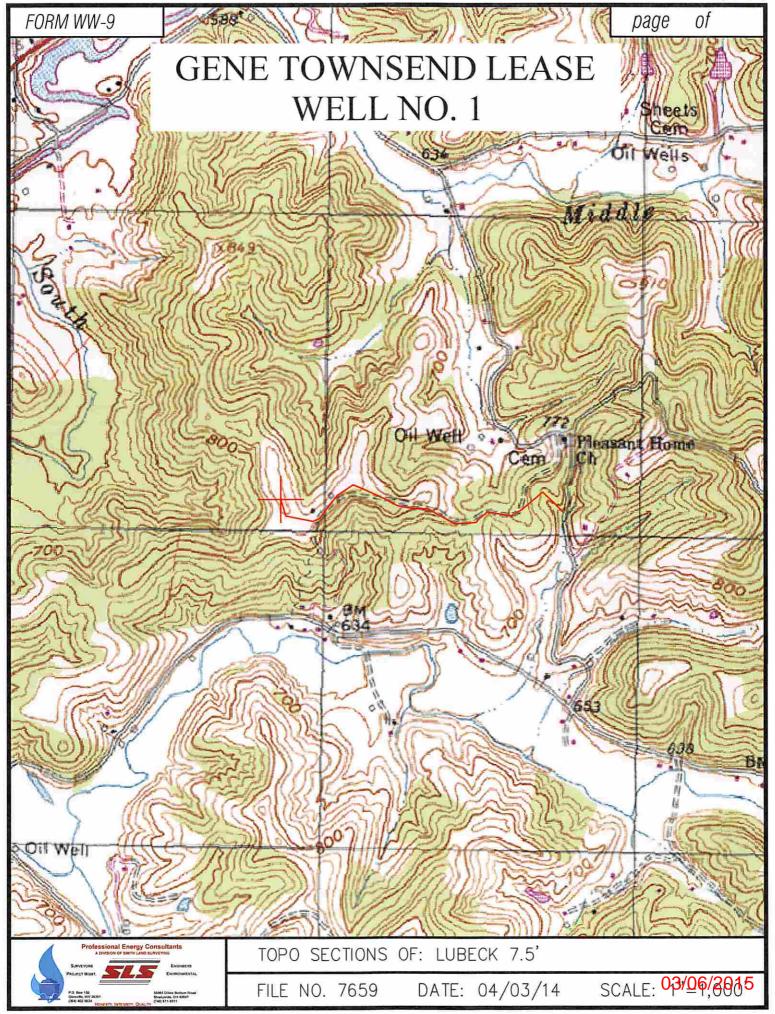
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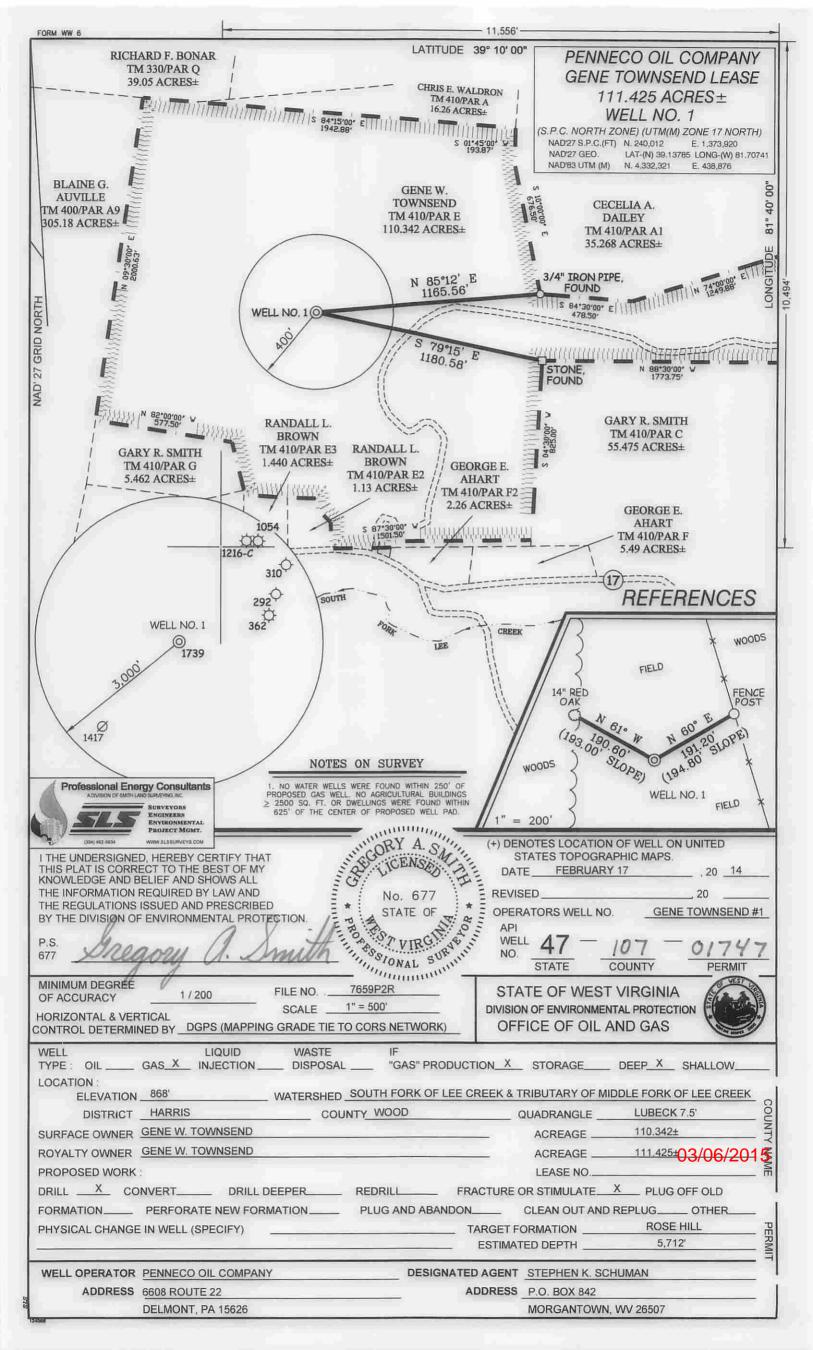
280'± @

0%-5% 14D'+@ 15%-20%

170'±@











DEEP WELL DRILLING PROCEDURES AND SITE SAFETY PLAN

Penneco Oil Company

Townsend #1

API#47- - 107-01747

Lubeck Quad, Harris District - Wood County, West Virginia

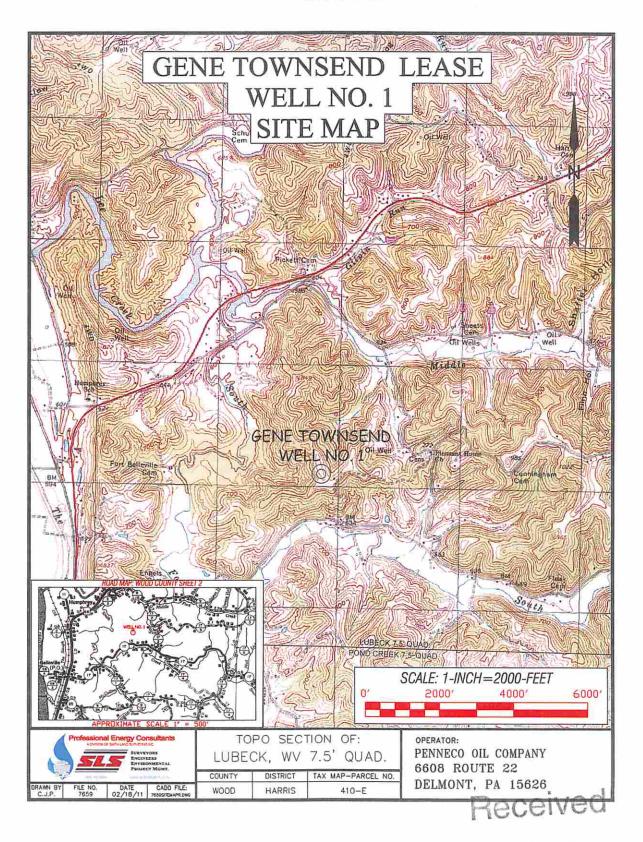
The Following Deep Well	Drilling Procedure and Si	te Safety Plan Approved By:	Claure 7/10/14
Ву:		Date:	
Title:	, Penneco		
Ву:		Date:	
Title:	. wvoog	Rec	eived

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Pit & Flare Lines	4
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H₂S sensors deep well layout	
List of Names	

Received

SITE PLAN



Pit and Flare Lines

ww	-9
Rev.	5/10

P	age	of	
API Number 47			
Operator's Well No.	Gene To	wnsend #1	

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

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

Operator Name Penneco Oil Company		OP Code	494460033
WatershedSouth Fork of Lee Creek & 1	Tributary of Middle Fork	of Lee Creek Quadrangle	Lubeck 7.5'
Elevation 868'	County Wood	Distr	ict <u>Harris</u>
Description of anticipated Pit Waste:D	orill Water and Various Fo	ormation Cuttings	
Do you anticipate using more than 5,000 b	bls of water to complete the	he proposed well work?	Yes No_X
Will a synthetic liner be used in the pit?	Yes . If	f so, what mil.? 30	
Reuse (at API) X Off Site Disposa	n jection (UIC Permit Nur	r disposal location)	
Drilling medium anticipated for this well? -If oil based, what type? Synthetic Additives to be used?	c, petroleum, etc it, landfill, removed offsit what medium will be used?	ze, etc. <u>Leave in Pit -</u> ? Cement, lime, sawdust	Encapsulated and buried Cement
August 1, 2005, by the Office of Oil and provisions of the permit are enforceable by or regulation can lead to enforcement action I certify under penalty of law the application form and all attachments therefore the information, I believe that the information submitting false information, including the	Gas of the West Virginia y law. Violations of any to n. nat I have personally ex- to and that, based on my in ation is true, accurate, at possibility of fine or impro-	a Department of Environment or condition of the go amined and am familiar inquiry of those individua and complete. I am awar isonment.	eneral permit and/or other applicable law with the information submitted on the last immediately responsible for obtaining that there are significant penalties for the control of the con
Company Official TitleChief Operating	g Officer		
Subscribed and sworn before me this	day of		20
		Not	tary Public
My commission expires			

Received

Meeting Date:	Drilling Deeper Meeting
	Townsend # 1
NAME	TITLE
	Penneco DRILLING REPRESENTATIVE
	Penneco SITE SUPERVISOR/REPRESENTATIVE
	STATE INSPECTOR
	DRILLING CONTRACTOR REPRESENTATIVE
	Received
	Heceived
	MAR 3 1 2014

Office of Oil and Gas WV Dept. of Environmental Protection

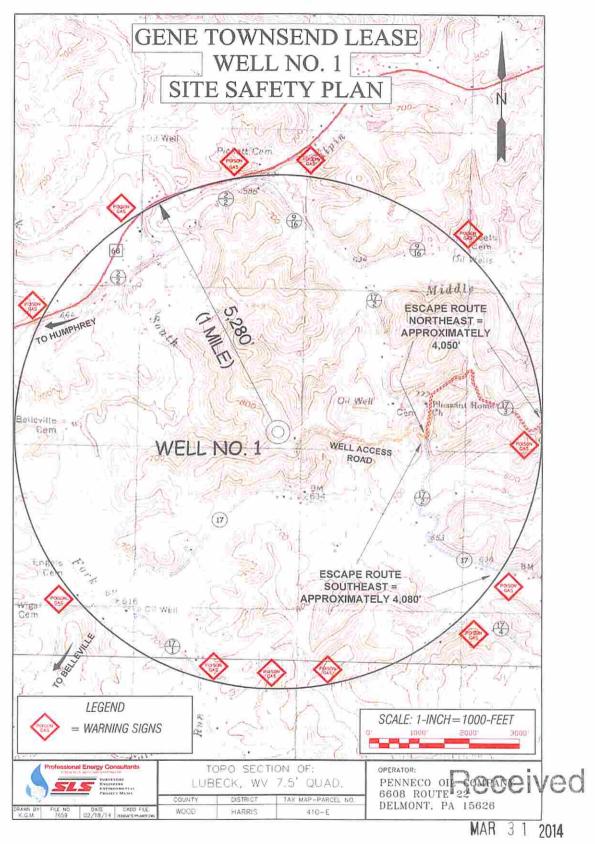
Sign In Sheet

Rig / Well County / State WBS

Date	Name (please print)	Company	Time		Were yo	u injured du visit?	uring your
			In	Out	Initial	NO	Yes

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Loute 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:

- 1. Penneco Oil Company representative will dispatch sufficient personnel to immediately warn each resident and transient's down-wind within radius of exposure from the well site. Then warn all residents in the radius of exposure. Additional evacuation zones may be necessary as the situation warrants.
- 2. The Penneco Oil Company's representative will immediately notify proper authorities, including the sheriff's office, highway patrol, and any other public officials as described above and will enlist their assistance in warning residents and transients in the calculated radius of exposure.
- 3. The Penneco Oil Company's representative will dispatch sufficient personnel to divert traffic in the vicinity away from the potentially dangerous area. A guard to the entrance of the well site will be posted to monitor essential and non-essential traffic.

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.

Received

- 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.

Received

SAFETY MEETING SCHEDULE

DATE	Number Of Workers Attended	SAFETY TOPIC DISCUSSED – Townsend # 1
		
<u></u>		
-		
_		
		Decree 6
		Received
- 		

LIST OF EMERGENCY PHONE NUMBERS

Office Phone

Penneco Oil Company

Penneco Oil Company 6608 Route 2 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			_
Joseph Petty, Principal	(304)-824-3432		

Hydrogen Sulfide Safety Technicians

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

Hospitals (911)

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

Cell Phone

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

Driving Directions

Townsend # 1

LAT / LONG (NAD 27): 39.13785 / 81.70741

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-33 W/W. Virginia 68 N., continue to follow W. Virginia 68 N., about 15.5 miles
- 5). Turn right onto Belleville-Rockport/Co Route 1/7, about 2.4 miles.
- 6). Turn left onto Co. Route 17/2 Pleasant Hill Church, about 0.5 miles.
- 7). Well road will be on the left, about 3,000 ft. to the well site

Received

TOWNSEND 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, 320# collapse rating
SURFACE: (FRESH WATER)	13.375"	16.0°	360°	0.330 wall, 48.0#, ST&C, H40 pipe, H40 cpl., 1,730# int. yield 322,000# joint strength, 740# collapse rating
COAL PROTECTION: (NO COAL)	9.625"	12.25"	1,520°	0.312 wall, 32.30#, ST&C, H40 pipe K55 cpl., 2,270# internal yield 254,000# joint strength 1,370# collapse rating
INTERMEDIATE:	7.00"	8.75"	2,115'	0.317 wall, 23.0#, ST&C, J55 pipe K55 cpl., 4,360# internal yield 313,000# joint strength, 3,270# collapse rating
PRODUCTION:	4.50"	6.25"	as per orders (+ or - 5,675')	0.220 wall, 10.5#, ST&C, MAV65 K55 cpl., 5,560# internal yield 140,000# joint strength, 4,250# collapse rating
TD HOLE:			5,712'	

Purpose: To drill and complete in Rose Hill Formation.

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Office of Oil and Gas
WV Dept. of Environmental Protection

Geologic Prognosis

ESTIMATED LOG Townsend No. 1, 47-107-0 Harris District, Wood County, WV

Elevation (Ground): 868', 878' KB			
Formation Tops:	Depth	Thickness	Pay/Show
Big Lime	1,392'	45'	•
Big Injun	1,437'	462'	•
Sunbury Shale	2,083'	18*	poss Sg
Berea	2,0991	121	poss Sg/So
Lo Haron undiff.	2,111'	1,107'	poss Sg/So 3,064°, 3,164°
Lower Huran	3,218'	539'	3,609° poss Soil
Java Fm.	3,757'	385°	poss 8g, 3,769°
Rhinestreet Sh.	4,1421	187	poss Sg
GAS CHECK	4.300'		
Onondaga Ls.	4,3291	931	poss Sg
Oriskany Ss.	4,422'	36'	poss Sg/pay
Helderberg	4,458'	196'	-
GAS CHECK	4.650'		
Salina	4,654'	535'	-
Newburg Ss.	5,1891	25'	posa Sg/pay
McKenzio	5,214'	298'	poss Sg
GAS CHECK	5.500		
Big Six Ss.	5,512'	341	pass Sg
Rose Hill Sh.	5,546*	5.712	
Total Depth		<u>5.712°</u>	

Possible freshwater flows: 269', 260' Possible sait water flows: 1,248', 1,317' and 1,437'

Logging Program:

Gamma Ray: TD to Surface Temperature: TD to esg. seat Dual Induction: TD to esg. seat

Compensated Density: TD to easing seat Sidewall Neutron Porosity: TD to easing seat

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

Other: Mud Log: 4,300' to TD Samples: every 10 feet from <u>4.360' to 4.560</u>'; <u>5.160' to TD</u>;

Casing Program:

Conductor: 20", 30° Range 3, 8 round, 81.3 lb., BTC, 0.375 well Grade MC50 pipe.

Surface: 13.375", 360' Range 3, 8 round 48.0 ib., ST&C, 0.330 wall Grade H40 pipe, H40 cpl. Coal Protection: 9 5/8", 1,520' Range 3, 8 round 32.3 lb., ST&C, 0.312 wall Grade H40 pipe, K55 cpl. Intermediate: 7.00°, 2,115, Range 3, 8 round, 23.0 lb., ST&C, 0.317 wall, J-55 pipe, K55 cpl. Production Casing: 4 1/2", 5,675' Range 3, 8 round, 19.5 lb, ST&C, Grade MAV65 pipe, K55 cpl. Tubing: As per orders.

SERVICES:

Cement and Cementing: Universal Well Services:

Brad Rowley, Engineer Cell: (814) 982-0126 Office: (814) 938-2951

Electric Logging: Weatherford:

Dave Sommerville, Sales Engineer Office: (724) 354-3090 Cell: 9724) 388-2577

Pipe and Supplies: McJankin-Red Man Corporation:

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

Mud Logging: Geosearch Longing:

H28 Safety: Total Safety (724) 745-1919 Office (412) 737-3950 cell Berek Kaiser: District Manager

CONTACTS:

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

Rig Phone:

PENNECO: Office: (724)-468-8232 For: (724) 468-8230

Gealogist: Shannon Johnson (412) 657-5619 cell

(412) 784-1927 home

MOUNTAIN V:

Mike Shaver (304) 842-6320 Office (304) 203-7550 Mobile (304) 987-7550 Pager

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Office of Oil and Gas MW Dapt, of Environmental Protection WW - 2B (Rev. 8/10)

1) Well Operator

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

494460033

Wood

Harris

Lubeck 7.5'

Penneco Oil Company

			Op	erator ID C	ounty Di	strict Quadrangle	9
2) Operator's Well 4) Well Type: (a) 0	Number: _ Dil o	Gene Tow r Gas	<u>/nsend #1</u> 3) El	evation: <u>868'</u>			
(b) I	f Gas: Prod	uctionX	/ Underground	Storage			
	Ε	Оеер	/ Sh	nallow	_		
6) Proposed Total 7) Approximate fre 8) Approximate sa 9) Approximate co 10) Approximate v	Depth: _57 esh water selt water dependent depths, tain coal se	712 Feet trata depth oths: 1: oths: N (coal, Kars eams tribut	248' 1317' 1437' lone st, other): None tary to active mine?	posed Total D	epth: Rose F	Hill Shale	
							
	-						
13)		CASING	AND TUBING PRO	OGRAM			
TYPE SPE	CIFICATIO	NS	FOOTA	GE INTERV	ALS CEM	ENT	
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in We	II Fill -up (Cu. F	<u>-t.)</u>
Conductor	20"	MC-50	81.30#	30,	30'	CTS	
Fresh Water	13.375"	H-40	48.0#	360'	360'	стѕ	
Coal	9 .625"	H-40	32.30#	1520"	1520'	CTS	
Intermediate	7"	J-55	23.0#	2115'	2115'	CTS	
Production	4 1/2"	MAV 65	10.5#	5712'	5675'	By Rule 35 4-11.1	CSR
Tubing							
Liners							

Packers:

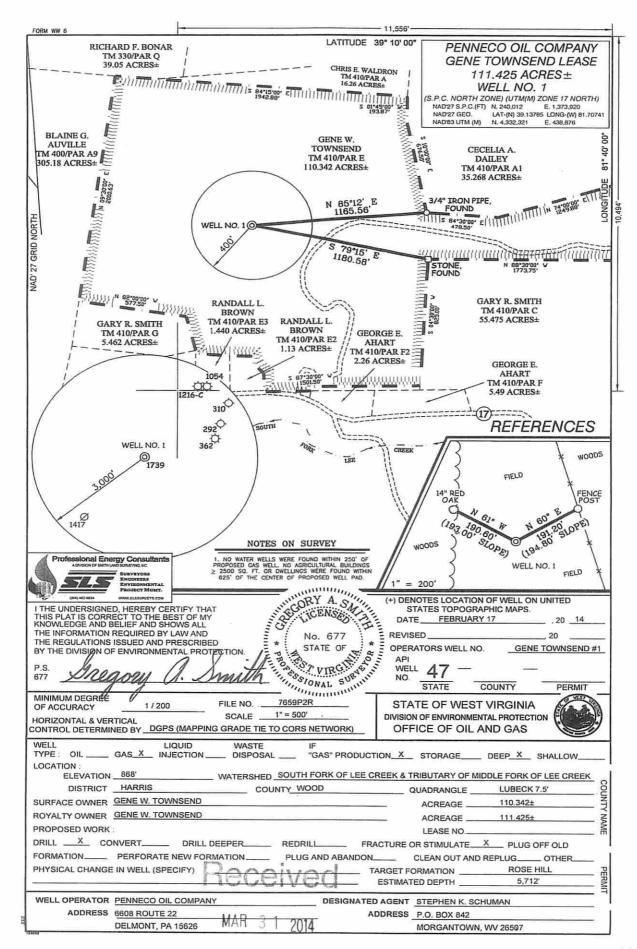
Kind

Sizes DepthSets

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BOP Requirements

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

Casing String – 20"

Rotating Head Only

BOP Type – Annular

Size – 20" Size – 13.375"

Pressure Rating – 500 psi Pressure Rating – 5000 psi

BOP Type – Double Rams BOP Type – Double Rams

Size - 9.625" Size - 7"

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 13.375" BOP stack will be installed when nippling up on the 13.375" 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 9.625" 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.



BOP Trained Personnel

Penneco Oil Company Representative
Penneco Oil Company Representative – Relief
Rig Supervisor
Rig Supervisor – Relief
WWD&C Standard Operations Guidelines

Toolpusher
Day Tour Driller
Night Tour Driller
Relief Driller

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.
- 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).
- 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.

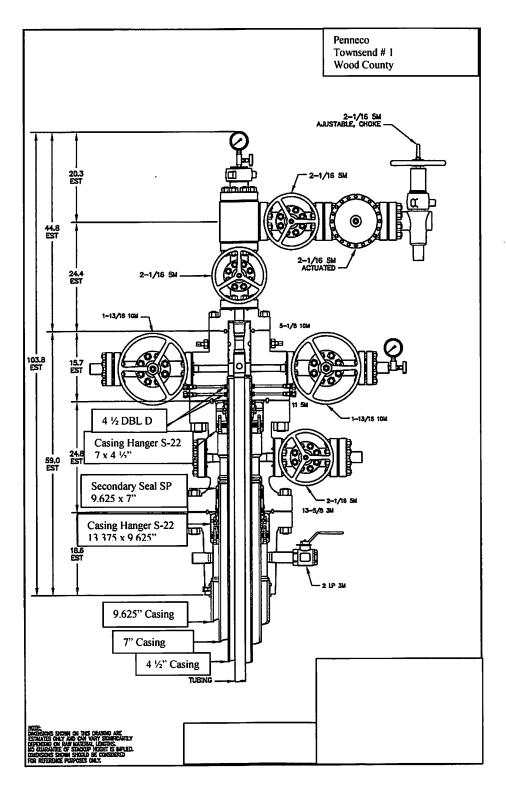
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Wellhead Assembly

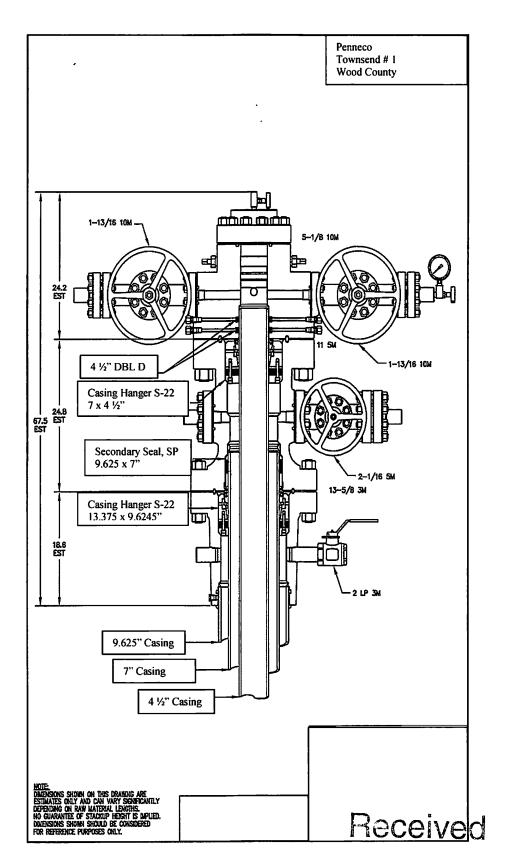
The Christmas tree section is to be designed depending upon the well completion type (i.e., 7", 4 $\frac{1}{2}$ ", tubing, or combination thereof).

Received

WELLHEAD SCHEMATIC

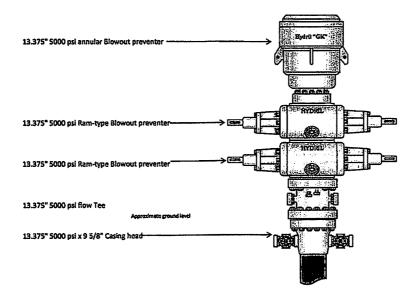


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Well Flaring and Killing Operations

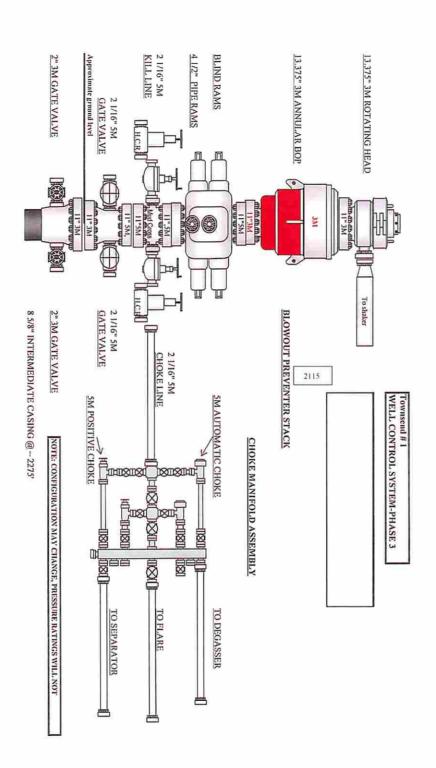
Penneco Proposed Blowout Preventer Schematic Townsen # 1 Wood County, West Virginia



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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.







H₂S Safety Services Equipment List

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

Respiratory Safety Systems

<u>QTY</u>	DESCRIPTION
1	Trailer with 10 bottle cascade system and associated manifolds.
24	30-minute pressure demand SCBA with Pigtail (4 – Primary safe briefing area, 4 – Secondary Safe Briefing Area, 4 – floor with one of these for derrick man)
9	Hose Line 5-minute Work Unit w/Escape Cylinder (1 in derrick, 6 on drill floor, 1 in mud pit wt area, 1 in shaker area)
1	Breathing air cascade of 8 bottles w/regulator (with hoses and manifolds rigged up to rig floor)
2	Refill lines to refill 30-minute units on location
2	6-man manifold that can be rigged up to work area on floor, if needed
6	25 foot hose lines
2	50 foot hose lines
100	feet of hose line to rig cascade up to 12 man manifold on floor
	Detection and Alarm Safety System
1	H 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	H ₂ S Sensors – located at rig floor, cellar, shakers, drillers console, and pit
3	Explosion Proof Alarms (Light and Siren)
2	Personal H ₂ S monitors
1	Portable Tri-Gas Hand Held Meter (O ₂ , LEL, H ₂ S)
1	Sensidyne/Gastech Manual Pump Type Detector
8	Boxes H ₂ S Tubes Various Ranges
2	Boxes SO ₂ Tubes Various Ranges
2	Calibration Gas
1	Set Paper Work for Records: Training, Cal, Inspection, other
30	H ₂ S Clip-on personnel monitors (Cricket type or similar)

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Additional Safety Related Equipment

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

Trailer with Breathing Air Cascade Will Also Include the Following

This equipment will be part of the H₂S equipment stored in the trailer, when on location

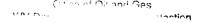
1	Oxygen Resuscitator
1	Flare Gun, with 10 cartridges
1	First aid kit
1	Eye wash station
1	Litter
2	Safety Harness w/150' Safety line

H₂S Training Statement

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

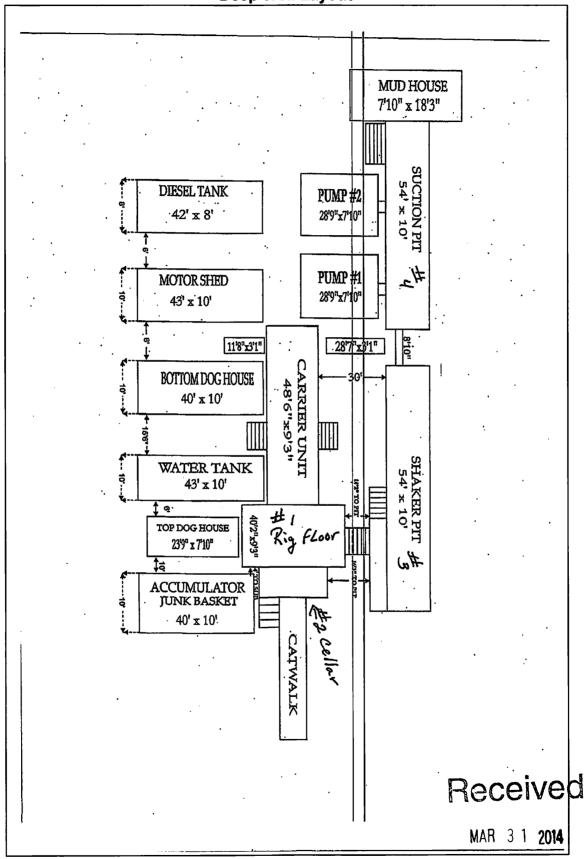
Completion and production activities will include Hydro-Facing.







Deep Well Layout



Office of Oil and Gas
WV Dept. of Environmental Protection

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

Name:	Address:	Phone Number:	
Gary R. & Peggy L. Smith	1850 Lee Creek Rd.	(304)-863-5694	
Map 410 Par # C	Belleville, WV. 26133		
Clyde L. Phillips	2280 Lee Creek Rd.	(304)-863-5127	
Map 410 Par # D	Belleville, WV. 26133		
Gene W. & Betty J. Townsend	1805 Lee Creek Rd.	(304)-863-6972	
Map 410 Par # E	Belleville, WV. 26133		
Randy G. & Barbara A.	230 Oak Valley Rd.	(304)-863-6268	
Townsend	Belleville, WV. 26133		
Map 410 Par K		(20.1) 200 200	
Cecelia A. Dailey	779 Pleasant Hill Church Rd.	(304)-863-8635	
Map 410 Par # A1	Belleville, WV. 26133	(004) 000 0505	
Eric S. & Candice L. Smith	2138 Lee Creek Rd.	(304)-863-3525	
Map 410 Par # C1	Belleville, WV. 26133	(004) 000 5040	
Raymond W. Stout	2295 Lee Creek Rd.	(304)-863-5046	
Map 410 Par # C2	Belleville, WV. 26133	(204) 202 8424	4
Randall Lee & Sandra Jo	1763 Lee Creek Rd.	(304)-863-8434	
Brown	Belleville, WV. 26133		
Map 410 Par # E2	1762 Log Crook Bri	(204) 962 9424	_
Randall L. & Sandra J. Brown	1763 Lee Creek Rd.	(304)-863-8434	
Map 410 Par # E3	Belleville, WV. 26133	(204) 962 6942	_
George E. & Donna Sue Ahart	1841 Lee Creek Rd.	(304)-863-6842	
Map 410 Par # F2	Belleville, WV. 26133 1772 Lee Creek Rd.	(204) 962 26EE	_
Eva M. Smith		(304)-863-3655	
Map 410 Par # I1	Belleville, WV. 26133	(304)-863-5694	
Gary R. & Peggy L. Smith Map 410 Par # I2	1850 Lee Creek Rd. Belleville, WV. 26133	(304)-603-5094	
Gary Roger & Peggy L. Smith	1850 Lee Creek Rd.	(304)-863-5694	-
Map 410 Par # I3	Belleville, WV. 26133	(304)-803-3094	
David M. & Mendy D. Kemp	1868 Lee Creek Rd.	(304)-861-0459	_
Map 410 Par # 15	Belleview, WV. 26133	(304)-001-0433	
Chris E. & Marcella L. Waldron	870 Pleasant Hill Church Rd.	(304)-863-0200	_
Map 410 Par # A1A	Belleville, WV. 26133	(004) 000 0200	
Candice J. Fleak	467 Pleasant Hill Church Rd.	(304)-863-9086	
Map 410 Par # E4A	Belleville, WV. 26133	(00.) 000 0000	
Wanda M. Flinn	4082 Pond Creek Rd.	No Listing	j
Map 260 Par # C	Ravenswood, WV. 26164		
Mark Douglas & Jill L. Shaffer	10392 Harris Hwy.	(304)-863-5908	
Map 260 Par # K	Belleville, WV. 26133	(,	
James G. Persinger	393 South Fork Ln.	(304)-863-5912	
Map 260 Par # C5	Belleville, WV. 26133	, ,	
Harvey A. Wigal	10105 Harris Hwy.	(304)-863-5436	
Map 260 Par # G1	Belleville, WV. 26133	· ·	
Jesse C. & Jason J.	219 South Fork Ln.	(304)-863-5907	
McKaughan	Belleville, WV. 26133	(304)-863-5087	
Map 260 Par # G2			
Gary F. & Karen Y. Fox	10229 Harris Hwy.	(304)-863-6337	
Map 260 Par # G3	Belleville, WV. 26133		
Robin W. & Amy L. West	161 S. Fork Ln.	(304)-863-0607	
Map 260 Par # G4	Belleville, WV. 26133		_
Gary F. & Karen Y. Fox	10229 Harris Hwy.	(304)-863-6337	
Map 260 Par # G5	Belleville, WV. 26133		4
C. Edwin & Barbara A.	10504 Harris Hwy.	(304)-863-8556	
Huffman	Belleville, WV. 26133		
Map # 260 Par # K1	4050411	(004) 000 0550	<u>_</u> _ •
C. Edwin & Barbara A.	10504 Harris Hwy.	(304)-863-8556	eceived
Huffman	Belleville, WV. 26133		
Map # 260 Par # K2	DD # 2	(204) 962 5554	4
Belleville Methodist Church	RR # 2	(304)-863-5554	AR 3 1 2014
Map 260 Par # G2A	Belleville, WV. 26133	· · · · · · · · · · · · · · · · · · ·	_ ` ` \ \\U ! 4

David K. & Aida L. Davis Map 260 Par # G7A	
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Mark E. & Debra Buckley Map 330 Par # N1	513 Middle fork Lee Creek Rd. Belleville, WV. 26133	(304)-863-8636
Richard W. & Belinda J. Greenburg Map 330 Par # N2	1262 Pleasant Hill Church Rd. Belleville, WV. 26133	(304)-863-3158
Philip S. & Jami D. Wicker Map 330 Par # O1	696 Middle Fork Lee Creek Rd. Belleville, WV. 26133	(304)-863-9222
Ida L & Kenneth Ankrom Map 330 Par # T1	974 Pleasant Hill Church Rd. Belleville, WV. 26133	(304)-863-8413
Belleville Baptist Church Map 330 Par # A1B	9877 Harris Hwy. Belleville, WV. 26133	(304)-863-0007
Ray Lee & Ellen N. Hofmann Map 340 Par # A	984 Middle Fork Lee Creek Rd. Belleville, WV. 26133	(304)-863-3229
Ray L. & E Nadine Hofmann Map 340 Par # I	984 Middle Fork Lee Creek Rd. Belleville, WV. 26133	(304)-863-3239

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