



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

February 06, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-9101289, issued to ICG TYGART VALLEY, LLC, 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: LEER 1301
Farm Name: ADLINGTON, LINDA & BENNET
API Well Number: 47-9101289
Permit Type: Vertical Well
Date Issued: 02/06/2014

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

1) Well Operator: ICG Tygart Valley, LLC 494504946 Taylor Knottsville Thornton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Leer 1301 3) Elevation: 1508.1'

4) Well Type: (a) Oil _____ or Gas X _____
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow X _____

5) Proposed Target Formation(s): Haverty Proposed Target Depth: 5,500'

6) Proposed Total Depth: 5,950 Feet Formation at Proposed Total Depth: Haverty

7) Approximate fresh water strata depths: 75'

8) Approximate salt water depths: None shown on offset records

9) Approximate coal seam depths: None shown on offset records

10) Approximate void depths, (coal, Karst, other): None shown on offset records

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

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Drill and fracture stimulate new shallow, conventional production well.

13) **CASING AND TUBING PROGRAM**

Ernest Reynolds
1-9-14

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor	13-3/8	J-55	52#	35'	35'	Sanded In
Fresh Water	9-5/8	J-55	32#	310'	310'	CTS
Coal						
Intermediate	7	J-55	20#	1700'	1700'	CTS
Production	4.5	MCS	10.5#	5950'	5500'	300 Cu Ft CBL Poz
Tubing						
Liners						

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Office of Oil and Gas
JAN 16 2014

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

WV Department of
Environmental Protection
02/07/2014

9101289

WW-2A
(Rev. 6-07)

1.) Date: _____
2.) Operator's Well Number Leer 1301
State 47- County _____ Permit _____
3.) API Well No.: _____

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

4) Surface Owner(s) to be served: W
(a) Name Linda Adlington and Pamela Bennett
Address RR 1 Box 447
Grafton, WV 26354
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris
Address P.O. Box 522
Buckhannon, WV 26201
Telephone 304-553-6087

5) (a) Coal Operator W
Name ICG Tygart Valley, LLC
Address 2708 Cranberry Square
Morgantown, WV 26508
(b) Coal Owner(s) with Declaration W
Name Coalquest Development, LLC
Address One City Place Drive, Suite 300
St. Louis, Missouri 63141
(c) Coal Lessee with Declaration
Name N/A
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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

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

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

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

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

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

Well Operator ICG Tygart Valley, LLC
By: Charles E. Duckworth
Its: Designated Agent
Address 1200 Tygart Drive
Grafton, WV 26354
Telephone 304-594-4204

Subscribed and sworn before me this 13 day of January

Thomas Gregory Nair
My Commission Expires December 22, 2019



Oil and Gas Privacy Notice

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

02/07/2014

9101289

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Taylor

Operator
Operator well number

ICG Tygart Valley, LLC
Leer 1301

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Linda Maxine Adlington Date 1-14-14
Signature
Linda Maxine Adlington
Print Name

Company Name _____
By _____
Its _____
Signature _____
Date _____

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02/07/2014

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Taylor

Operator
Operator well number

ICG Tygart Valley, LLC
Leer 1301

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Patricia J. Bennett Date 1-14-14

Signature

Company Name
By
Its

Patricia J. Bennett

Print Name

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JAN 16 2014
Date
Signature
Date

WV Department of
Environmental Protection

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Taylor
Operator ICG Tygart Valley, LLC Operator's Well Number Leer 1301

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

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

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

WAIVER

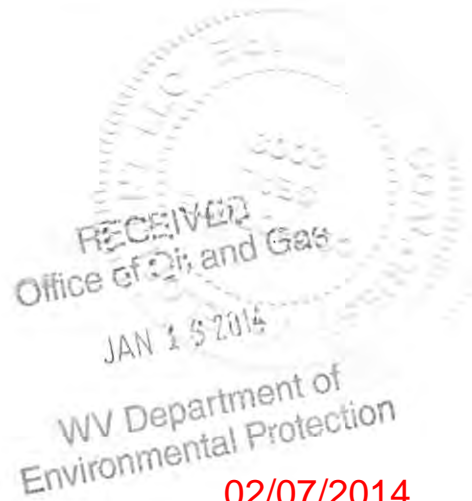
The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date _____

Company Name CoalQuest Development LLC
By Jan S. Ploetz
Its Secretary Date Jan 10, 2014
[Signature] Date Jan 10, 2014



9101289

WW-2A1
(Rev. 1/11)

Operator's Well Number Leer 1301

**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
S.L. Shackelford & Lillian Shackelford	Consolidated Gas Supply Corporation	1/8	27/478
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	W.I.	5/555
Consolidated Gas Transmission Corporation	CNG Development Company	W.I.	6/443
CNG Development Company	J & J Enterprises, Inc.	W.I.	Unrecorded Agreement
CNG Producing Company	CNG Development Company	W.I.	49/33
CNG Producing Company changed name to	Dominion Exploration and Production, Inc.	W.I.	
CNX Gas Company	ICG Tygart Valley by Farmout on 12/20/13	W.I.	Not yet recorded

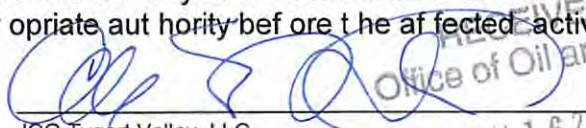
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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

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

Well Operator:
By: Its:



 ICG Tygart Valley, LLC
 Designated Agent

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 02/07/2014

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Georgianna Thompson
TAYLOR County 02:54:32 PM
Instrument No 2014002765
Date Recorded 02/05/2014
Document Type LE
Pages Recorded 5
Book-Page 65-41
Recording Fee \$5.00
Additional \$6.00

FEB 6 2014

WV Department of
Environmental Protection

MEMORANDUM OF FARMOUT AGREEMENT

THIS MEMORANDUM OF FARMOUT AGREEMENT ("**Memorandum**") is made this 27th day of January, 20 14, by and between CNX Gas Company LLC, a Virginia limited liability company, located at 1000 CONSOL Energy Drive, Canonsburg, Pennsylvania 15317 ("**Farmor**") and ICG Tygart Valley, LLC, a Delaware limited liability company, with its principal place of business at One CityPlace Drive, Suite 300, St. Louis, Missouri 63141 ("**Farmee**"). Grantor and Grantee may each be referred to herein as a "**Party**" and collectively as the "**Parties**."

RECITALS:

WHEREAS, the Parties entered into a Well Option Agreement dated September 19, 2013 ("**Option Agreement**"), whereby Farmor granted Farmee the right to purchase certain wells from Farmor for plugging in connection with Farmee's mining operations, and further provided for terms and conditions related to preservation of the underlying CNX Leases; and

WHEREAS, one method for preservation of a CNX Lease under the Option Agreement includes the drilling of a replacement well capable of holding the CNX Lease ("**Replacement Well**"); and

WHEREAS, under the terms of that certain Wellbore Farmout Agreement of even date herewith ("**Farmout**"), Farmor granted Farmee the right to drill and complete one Replacement Well on the land located in Knottsville District, Taylor County, West Virginia, as more particularly described on Exhibit A attached hereto and made a part hereof ("**Property**"), in exchange for Farmee's agreement to comply with the terms of the Farmout and convey to Farmor any successful Replacement Well drilled thereunder; and

WHEREAS, in lieu of recording the Farmout in its entirety, the Parties have executed, acknowledged, and delivered this Memorandum pursuant to W.Va. Code § 40-1-8.

1. **Incorporation of Recitals.** The Parties hereto acknowledge the accuracy of the foregoing recitals, the substance of which is hereby incorporated into this Memorandum by reference.
2. **Date of Agreement and Effective Date.** The Farmout is dated and is effective as of January 27, 2014 (the "**Effective Date**").
3. **Description of Property Affected By the Agreement.** The Farmout applies to the Property.



4. **Term.** The Farmout shall be in effect for a term of twelve (12) months from the Effective Date, unless Farmee is in the process of drilling or connecting the Replacement Well at the end of the initial term, in which event it will be extended, unless sooner terminated or surrendered under the terms and conditions of the Farmout or related agreements.

5. **Capitalized Terms.** Any capitalized terms not defined herein have the meaning ascribed to them in the Farmout.

6. **Modifications.** In the event the Farmout is amended or supplemented by written instrument executed by the Parties thereto or the rights or obligations granted thereunder shall be assigned or terminated in any manner permitted under the terms thereof, then, without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned, or terminated, as the case may be.

7. **Counterparts.** This Memorandum may be executed in any number of counterparts, each of which, when executed, shall be deemed to be an original, and all of which, when assembled together, shall constitute one and the same instrument.

THIS MEMORANDUM OF FARMOUT AGREEMENT IS NOT A COMPLETE SUMMARY OF THE FARMOUT AGREEMENT. IN THE EVENT OF A CONFLICT BETWEEN THE TERMS OF THIS MEMORANDUM AND THE FARMOUT AGREEMENT, THE TERMS AND PROVISIONS OF THE FARMOUT AGREEMENT SHALL CONTROL.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

[Signature and Acknowledgement Pages Follow.]

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IN WITNESS WHEREOF, the Parties hereto have caused their authorized representatives to execute this Memorandum as of the date first above written.

FARMOR:

CNX Gas Company LLC,
a Virginia limited liability company

By: [Signature]
By: LuAnn Datesh
Its: Vice President mwf

COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF WASHINGTON,

On this, the 27th day of January, 2014, before me, the undersigned officer, personally appeared LuAnn Datesh, who acknowledged himself/herself to be the Vice President of CNX Gas Company, a Virginia limited liability company, and that being authorized to do so, executed this instrument for the purposes therein contained by signing the name of the company by himself/herself as said officer.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

My Commission expires: June 20 2016

(NOTARIAL SEAL)

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Suzanne M. Burt, Notary Public
Cecil Twp., Washington County
My Commission Expires June 20, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

[Signature]
NOTARY PUBLIC

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WV Department of
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IN WITNESS WHEREOF, the Parties hereto have caused their authorized representatives to execute this Memorandum as of the date first above written.

FARMEE:

ICG Tygart Valley, LLC,
a Delaware limited liability company

By: A. Scott Boylen
Its: President & GM

STATE OF West Virginia,
COUNTY OF Taylor

On this, the 5 day of Feb, 2014 before me, the undersigned officer, personally appeared A. Scott Boylen who acknowledged himself/herself to be the President & GM of ICG Tygart Valley, LLC, a Delaware limited liability Co, and that being authorized to do so, executed this instrument for the purposes therein contained by signing the name of the company by himself/herself as said officer.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

My commission expires: Feb 15 2021

(NOTARIAL SEAL)  Heather F. Keener
NOTARY PUBLIC

THIS INSTRUMENT PREPARED BY:
Ryan J. Morgan
Steptoe & Johnson PLLC
P. O. Box 1588
Charleston, West Virginia 25326

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0150

Exhibit A

DESCRIPTION OF PROPERTY

The property on which Farmee shall have the right to drill one Replacement Well is shown on the attached map and said interest was conveyed to Farmor by the following instrument:

By instrument dated July 20, 1965, and recorded August 5, 1965, in Lease Book 27, Page 478, S.L. Shackelford and Lillian Shackelford, his wife, leased for oil and gas purposes unto Consolidated Gas Supply Corporation a tract or parcel of land containing 50 acres, more or less, located in Knottsville District, Taylor County, West Virginia.

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Ex. A

Cig

02/07/2014

WW-2B1
(5-12)

Well No. Leer 1301

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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

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

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

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

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

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

Well Operator ICG Tygart Valley, LLC
Address 2708 Cranberry Square
Morgantown, WV 26508
Telephone 304-594-4204

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 13 potable water sources within 1000', therefore tests will be offered and samples taken as required.

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02/07/2014



OPERATOR: ICG Tygart Valley, LLC
LEASE NAME AND NUMBER: Shackelford Lease Well No. Leer 1301

COMMENTS

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the proposed well site. The following landowners will be notified of the opportunity to request a water sample.

*Please note that the following information is subject to change upon field inspection.

INDIVIDUAL CONTACTED OR NOTIFIED

Owner/Occupant: Ark Land Company
Address: 1 City Place Dr. Site 300 Saint Louis, MO 63141 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 43

Owner/Occupant: Kenneth C. & Elizabeth P. Mehlinger
Address: RR. 1 Box 444-A Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 44

Owner/Occupant: Samuel K. & Judith D. McDaniel
Address: RR. 1 Box 449-A Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 45

Owner/Occupant: Joseph B. Sessions
Address: RR. 1 Box 383-A Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 45.1

Owner/Occupant: Rita W. McDaniel (Life In Min) & Samuel K. & Judith D. McDaniel
Address: RR. 1 Box 449-A Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 47.5

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Environmental Protection
02/07/2014

Owner/Occupant: Linda Maxine Adlington & Pamela June Bennett
 Address: RR. 1 Box 447 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 50

Owner/Occupant: Linda Maxine Adlington & Pamela June Bennett
 Address: RR. 1 Box 447 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 51

Owner/Occupant: Norman W. & Linda M. Adlington
 Address: RR. 1 Box 447 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 51.1

Owner/Occupant: Roger W. & Pamela J. Bennett
 Address: RR. 1 Box 448 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 51.2

Owner/Occupant: Linda Maxine Adlington & Pamela June Bennett
 Address: RR. 1 Box 447 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 52

Owner/Occupant: Joshua C. & Amy M. Dunham
 Address: RR. 1 Box 446 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 52.1

Owner/Occupant: Shirley J. Newlon
 Address: RR. 4 Box 198 Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 53

Owner/Occupant: Bobby L & Buffy L Taylor
 Address: RR. 1 Box 442-A Grafton, WV 26354 Letter/Notice Date: _____
 Comments: Tax Map 9 Par. 53.1

Owner/Occupant: Shirley J. Newlon & Buffy L. Taylor
Address: RR. 4 Box 198 Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 53.2

Owner/Occupant: Dale & Linda Watkins
Address: RR. 1 Box 445 Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 53.3

Owner/Occupant: Jon'Paul Cain & Ark Land Company
Address: 2708 Cranberry Sq. Morgantown, WV 26508 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 53.4

Owner/Occupant: Frederick Calla D. Claghorn
Address: RR. 1 Box 443 Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 54

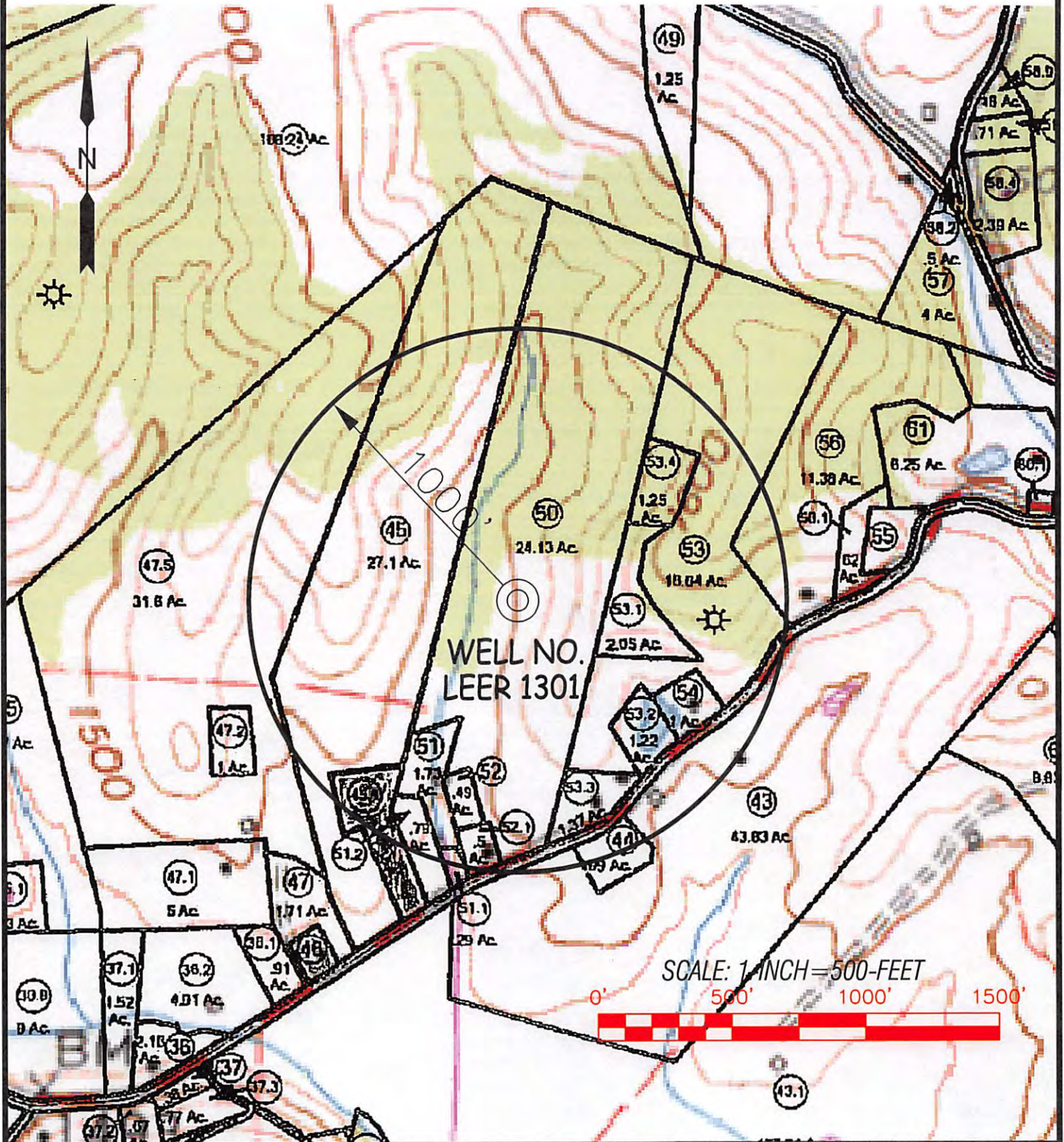
Owner/Occupant: Larry J. & Mary M. Shuttlesworth
Address: RR. 1 Box 441-A Grafton, WV 26354 Letter/Notice Date: _____
Comments: Tax Map 9 Par. 56

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____


Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

Owner/Occupant: _____
Address: _____ Letter/Notice Date: _____
Comments: _____

SHACKELFORD LEASE WELL NO. LEER 1301



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.



SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

DRAWN BY: K.D.W. FILE NO.: 8119 DATE: 12/30/13 CADD FILE: 8119WS1301.dwg

TOPO SECTION OF:
THORNTON, WV 7.5' QUAD.

COUNTY	DISTRICT	TAX MAP-PARCEL NO.
TAYLOR	KNOTTSVILLE	09-50

OPERATOR:
ICG TYGART VALLEY, LLC
2708 CRANBERRY SQUARE
MORGANTOWN, WV 26508
02/07/2014

9101289

WW-9
(5/13)

Page _____ of _____
API Number 47 - _____ - _____
Operator's Well No. Leer 1301

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ICG Tygart Valley, LLC OP Code 494504946

Watershed (HUC 10) Swamp Run of Sandy Creek Quadrangle Thornton 7.5'

Elevation 1508.1' County Taylor District Knottsville

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

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

If so, please describe anticipated pit waste: Rock cuttings/drilled solids, drilling and completion fluids

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? N/A

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

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

Additives to be used in drilling medium? Drilling Mud - sodium/calcium/potassium chloride(s), starch, xanthan gum, sodium bicarbonate, caustic soda, biocide

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in Pit

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

-Landfill or offsite name/permit number? _____

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

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

Company Official Signature [Signature]

Company Official (Typed Name) Charles E. Duckworth

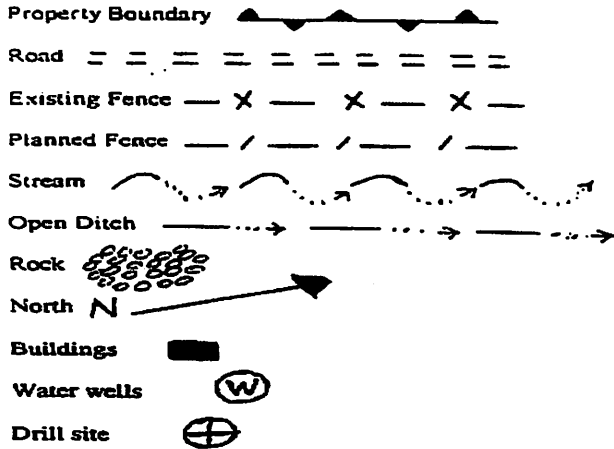
Company Official Title Designated Agent

Subscribed and sworn before me this 13 day of January 20 14

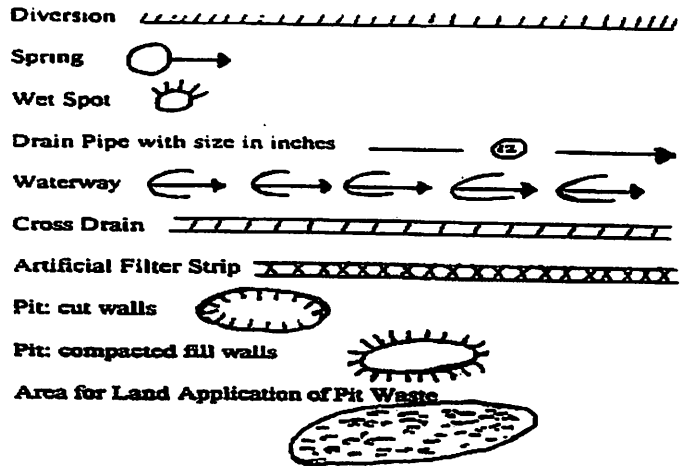
Thomas Gregory Nair
My commission expires December 22, 2019



RECEIVED
Office of Oil and Gas
JAN 16 2014
WV Department of
Environmental Protection
02/07/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.6 ± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

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

Mulch HAY 2 Tons/acre

Seed Mixtures

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

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

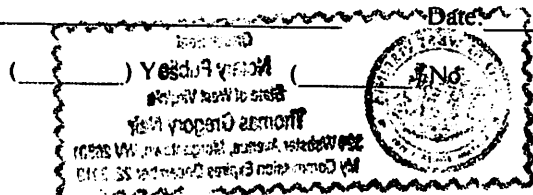
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? ()



9101289

WW-9
(5/13)

Page _____ of _____
API Number 47 - _____ - _____
Operator's Well No. Leer 1301

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

Permit Approved
1-9-14

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ICG Tygart Valley, LLC OP Code 494504946

Watershed (HUC 10) Swamp Run of Sandy Creek Quadrangle Thornton 7.5'

Elevation 1508.1' County Taylor District Knottsville

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

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

If so, please describe anticipated pit waste: Rock cuttings/drilled solids, drilling and completion fluids

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Company Official Signature _____

Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

RECEIVED
Office of Oil and Gas

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

JAN 16 2014

Notary Public

My commission expires _____

WV Department of
Environmental Protection
02/07/2014

SHACKELFORD LEASE WELL NO. LEER 1301

PROPOSED GAS WELL NO. LEER 1301

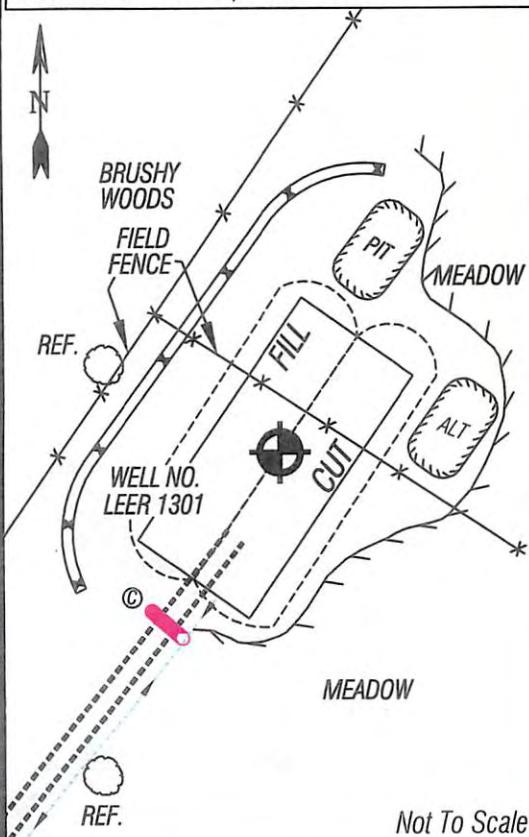
800' ± @
0-5% GRADE ±

50' ± @
5-10% GRADE ±

EXISTING CULVERT
TO BE UPGRADED
TO 15" MIN. CULVERT



Detail Sketch for Proposed Well No. LEER 1301



SCALE: 1"=500'



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. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

02/07/2014

- = EXISTING CULVERT
- = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

DRAWN BY K.D.W.	FILE NO. 8119	DATE 12/27/13	CADD FILE: 8119REC.1301.dwg
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TOPO SECTION OF THORNTON 7.5'
USGS TOPO QUADRANGLE

WELL NO. LEER 1301
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)

N. 295,491
E. 1,865,734

DOROTHY FORMAN
(HEIRS) C/O KAREN
DUVALL
108.24 ACRES±

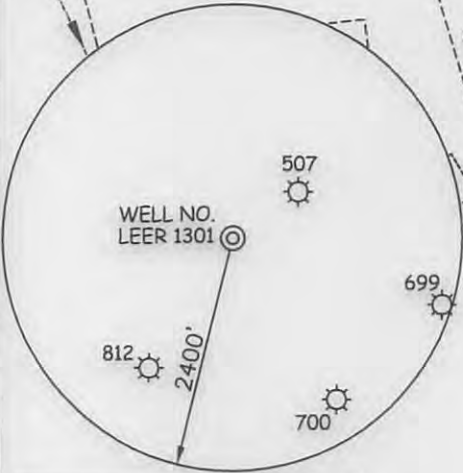
LAT=(N) 39.31032
LONG=(W) 79.97451

UTM (NAD83)(METERS)

N. 4,351,726
E. 588,428

A	ROGER W. BENNETT ET AL	0.79 ACRES±
B	NORMAN W. ADLINGTON ET AL	0.29 ACRES±
C	JOSHUA C. & AMY M. DUNHAM	0.50 ACRES±
D	LINDA M. ADLINGTON ET AL	0.49 ACRES±
E	LINDA M. ADLINGTON ET AL	1.73 ACRES±

SHACKELFORD LEASE WELL NO. LEER 1301



NOTES ON SURVEY

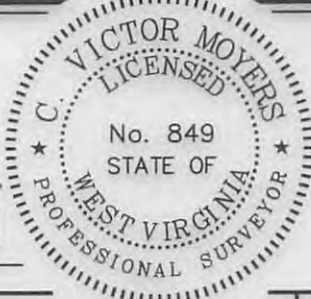
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12-19-13.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 91 PAGE 103, WELL PLAT 47-091-0507 DATED 05/20/85 AND OTHER ADJOINING DEEDS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY TIE TO COAL COMPANY CONTROL NETWORK STATIONS 14 & 15.

REFERENCES



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

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 26, 20 13
OPERATORS WELL NO. LEER 1301
API WELL NO. 47 - 91 - 01289
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8119P1301(479-63)
PROVEN SOURCE OF ELEVATION TIE TO COAL COMPANY CONTROL NETWORK STATIONS 14 & 15 SCALE 1" = 500'

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

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

LOCATION: ELEVATION 1508.1' WATERSHED SWAMP RUN OF SANDY CREEK
DISTRICT KNOTTSVILLE COUNTY TAYLOR QUADRANGLE THORNTON 7.5'

SURFACE OWNER LINDA ADLINGTON & PAMELA BENNETT ACREAGE 24.15±
ROYALTY OWNER LINDA ADLINGTON & PAMELA BENNETT ACREAGE 24.15±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION HAVERTY
ESTIMATED DEPTH 5,950'

WELL OPERATOR ICG TYGART VALLEY, LLC DESIGNATED AGENT CHARLES E. DUCKWORTH
ADDRESS 2708 CRANBERRY SQUARE ADDRESS 1200 TYGART DRIVE
MORGANTOWN, WV 26508 GRAFTON, WV 26354

COUNTY NAME
PERMIT

02/07/2014