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

June 02, 2015

WELL WORK PERMIT

Rework-Brine Disposal

This permit, API Well Number: 47-3902210, issued to VIKING ENERGY CORPORATION, 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: 20320
Farm Name: COLUMBIA GAS
API Well Number: 47-3902210
Permit Type: Rework-Brine Disposal
Date Issued: 06/02/2015

Promoting a healthy environment.

39 02210 W

PERMIT CONDITIONS

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

CONDITIONS

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

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

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

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

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

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

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

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

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FORM WW-3 (A)
1/12

1) Date:
2) Operator's Well No. Wallace #1 Disposal
3) API Well No.: 47 - 039 - 02210
State County Permit
4) UIC Permit No. 2D0392210

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Owner(S) To Be Served
(a) Name Viking Energy Corporation
Address P O Box 13366
Sissonville, WV 25320
(b) Name
Address
(c) Name
Address

6) Inspector Terry Urban
Address P O Box 1207
Charleston, WV 25046
Telephone 304-549-5915

7) (a) Coal Operator
Name N/A
Address

7) (b) Coal Owner(S) With Declaration Of Record
Name Viking Energy Corporation
Address P O Box 13366
Sissonville, WV 25320
Name
Address

7) (c) Coal Lessee with Declaration Of Record
Name N/A
Address

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

(1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
(2) The plat (surveyor's map) showing the well location on Form WW-6; and
(3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____ 20 ____ .

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B)] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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 Viking Energy Corporation
Address P O Box 13366
Sissonville, WV 25320
By: Michael Pinkerton
Its: President
Signature: Michael Pinkerton

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Office of Oil and Gas
MAY 14 2015
WV Department of
Environmental Protection

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WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County 039 Kanawha

Operator Viking Energy Corporation
Operator well number Wallace #1 Disposal

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through ___ including a work order on Form WW-2B / 3A, 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

_____ Date _____
Signature

02210
Print Name

FOR EXECUTION BY A CORPORATION, ETC.

Company Name: Viking Energy Corporation
By: Michael Pinkerton
Its: President
Date: 5/13/15
Michael Pinkerton
Signature

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WV Department of Environmental Protection

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WW-2A / 3A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County 030 Kanawha
Operator Viking Energy Corporation Operator's Well Number Wallace #1 Disposal

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW-2A / 3A. 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

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION, ETC.

Company Name ~~N/A~~ Viking Energy Corporation
By Michael Pinkerton
Its President Date

Michael Pinkerton 5/13/15
Signature Date

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MAY 14 2015
WV Department of
Environmental Protection

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WW-2A1
(Rev. 1/11)

Operator's Well Number Wallace #1 Disposal

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
Columbia Gas Transmission	Viking Energy Corporation	N/A	DB 2721/817

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.

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WV Department of
Environmental Protection

Well Operator: Viking Energy Corporation
By: Its: Michael Pinkerton, President

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WW-2B1
(5-12)

Well No. Wallace #1 Disposal

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 Sturm Environmental
Sampling Contractor

Well Operator Viking Energy Corporation
Address P O Box 13366
Sissonville, WV 25320
Telephone 304-988-1161

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.

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NAME	ADDRESS	Map/ PARCEL	Caller	Call Date	Phone #	Water Tested Y/N?	Date Tested/Results
William &Evangeline Bartlett	2 Maranatha AC Charleston, WV 25312	13/166.6					
Herbert & Brenda Brooks	12 Wildwood Way Charleston, WV 25312	13/166.17					
Basil Carpenter	637 Call Road Charleston, WV 25312	13/96.1					
Basil Carpenter	637 Call Road Charleston, WV 25312	13/98.3					
Eric & Tonya Haynes	RT5 Box 414 Charleston, WV 25312	13/166.13					
Eric & Tonya Haynes	RT5 Box 414 Charleston, WV 25312	13/166.14					
Eric & Tonya Haynes	RT5 Box 414 Charleston, WV 25312	13/166.15					
Eric & Tonya Haynes	RT5 Box 414 Charleston, WV 25312	13/164.01					
Eric & Tonya Haynes	RT5 Box 414 Charleston, WV 25312	13/164.02					
Eric & Tonya Haynes	100 Kingsbrooke Lane Charleston, WV 25312	13/166.01					
Eric & Tonya Haynes	100 Kingsbrooke Lane Charleston, WV 25312	13/166.10					
Eric & Tonya Haynes	100 Kingsbrooke Lane Charleston, WV 25312	13/166.16					

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NAME	ADDRESS	Map/ PARCEL	Caller	Call Date	Phone #	Water Tested Y/N?	Date Tested/Results
Lloyd & Linda Haynes	RT 5 Box 414 Charleston, WV 25312	13/164					
Lloyd & Linda Haynes	RT 5 Box 414 Charleston, WV 25312	13/165.01					
Lloyd & Linda Haynes	RT 5 Box 414 Charleston, WV 25312	13/165					
Scott Haynes	RR 5 Box 416 Tuppers Ck Charleston, WV 25312	13/96					
Maranatha Baptist Church	1 Maranatha Acres Charleston, WV 25312	13/166					
Maranatha Baptist Church	1 Maranatha Acres Charleston, WV 25312	13/166.05					

39 022100

NAME	ADDRESS	Map/ PARCEL	Caller	Call Date	Phone #	Water Tested Y/N?	Date Tested/Results
Nicholas Mosser Kathryn Miller	5110 MacCorkle Ave SE South Charleston, WV 25309	13/166.03					
Njaka Chibueze	2820 Gillespie Lane Grand Prairie, TX 75052	13/98					
Ralph & Sarah Shamblin	334 C Call Road Sissonville, WV 25320	13/166.07					
Smart Properties LLC	PO Box 9143 So. Charleston, WV 25309	13/166.08					
Smart Properties LLC	PO Box 9143 So. Charleston, WV 25309	13/186					
Tomahawk Land LLC	700 Chappell Rd. Charleston, WV 25304	13/183					
Tomahawk Land LLC	PO Box 18387 So. Charleston, WV 25303	13/183.01					
Elizabeth Wherle Dollie Walker	333 ½ Call Road Charleston, WV 25312	13/99.,01					
Orville & Ollie Walker	2020 Kaye Neva Lane Charleston, WV 25312	13/99					

CK# 1145
$650.00

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FORM WW-3 (B)
1/12

1) Date:
2) Operator's Well No. Wallace #1 Disposal
3) API Well No.: 47 - 039 Kanawha - 02210
State County Permit
4) UIC Permit No. 2D0392210

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) WELL TYPE: Liquid Injection [ ] / Gas Injection (not storage) [ ] / Waste Disposal [✓]
6) LOCATION: Elevation: Watershed: Tuppers Creek
District: Poca County Kanawha Quadrangle Pocatalico
7) WELL OPERATOR: Viking Energy Corporation
Address P O Box 13366
Sissonville, WV 25320
8) DESIGNATED AGENT Michael Pinkerton
Address P O Box 13366
Sissonville, WV 25320
9) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Terry Urban
Address P O Box 1207
Charleston, WV 25046
10) DRILLING CONTRACTOR
Name
Address

11) PROPOSED WELL WORK Drill [ ] / Drill deeper [ ] / Redrill [ ] / Stimulate [ ]
Plug off old formation [ ] / Perforate new formation [ ] Convert [ ]
Other physical change in well (specify) Cement squeeze job behind 5 1/2" casing, possibly insert 3 1/2" casing inside the 5 1/2" and cement 1000'
12) GEOLOGIC TARGET FORMATION Newburg Depth 5557 Feet (top) to 5574 Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 5584 Feet
14) Approximate water strata depths: Fresh 140' Feet Salt 1600' Feet
15) Approximate coal seam depths: N/A
16) Is coal being mined in the area? Yes No
17) Virgin reservoir pressure in target formation 2125 psig Source well record
18) Estimated reservoir fracture pressure 2125 psig (BHFP)
19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 180 bbl Bottom hole pressure 4831
20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Brine water
21) FILTERS (IF ANY) 100 micron, 25 micron, 10 micrion
22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For Drilling	Left In Well	CEMENT FILL-UP OR SACKS (CU. FT.)	PACKERS
Conductor	20"					15'	15'	cement to surface CTS	Kinds
Fresh Water	13 3/8"	H-40	48			241'	241'	cement to surface CTS	Back Set Lock
Coal									Sizes
Intermediate	8 5/8"	J-55	24			1738'	1738'	CTS	5 1/2"
Production	5 1/2"	N-80	17			5514'	5514'	CTS	Depths set
Tubing	2 3/8"	J-55	4.7			5462'	5462'	CTS TOL@4430'	5459'
Liners									Perforations
									Top Bottom

24) APPLICANT'S OPERATING RIGHTS were acquired from Columbia Gas Transmission
by deed x / lease / other contract / dated 11/15/2008 of record in the
Kanawha County Clerk's office in Deed Book 2721 Page 817

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See Back Page
Terry Urban

Company Name: Viking Energy

RE Wallace injection well
Permit # Permit pending
County Kanawha

Reason for Work-over; A pressure test was attempted on the Wallace Inj. Well as it appeared that the packer had failed

Remedial procedure to date;

1) Packer was released and tripped out of hole and rebuilt.

2) Packer was made up to the tubing and tripped in hole. It was set at 2500 ft, an annular test performed. Test held. Tripping in was resumed at 1000 ft intervals setting packer and annular testing to ensure tubing string was good. The pressure test failed at 4500 ft. After the test failed the packer was released and reset in stages with subsequent pressure tests. It was found that the test held at 4381 but failed at 4413 ft. Results indicate a leak in the 5 1/2 casing between 4381 and 4413 ft.

Proposed remedial operations

1) Run in hole and set a drillable bridge plug at 4450 (+/-) ft. (not to be set in a collar)

2) Perform a squeeze cement job as follows;

   1) Establish an injection rate with fresh water.
   2) Calculate cement volume (not to be less than 50 sks.) based on casing capacity, injection rate a pressure
   3) Mix and pump cement, drop wiper plug and displace to a maximum depth of 4381 ft.
   4) Wait on cement 8 hrs minimum.

3) Rig up power swivel and related equipment
4) Trip in hole with 4 7/8 bit and drill out cement.
5) Pressure test casing (bridge plug is still in place)
6) If test is sucessful. Drill out drillable bridge plug and run to bottom.
7) Run in hole and set packer at +/- 5450 ft notify state inspector 24 hrs in advance and conduct an M
8) Return well to service

Note: if pressure test after squeeze in step 5 fails locate the additional leak using the packer isolation p again. At that point if it is determined the leak has been satisfactorily located perform a second squeez repeat process, steps 2 through 5 Setting the bridge plug below the located leak. Or if determined, a li may be required to be run. Exact procedure would have to be determined after squeezing. Initial desig follows.

1) Set bridge plug in 5 1/2 @ +/- 5475 ft
2) Run 3 1/2 pipe to plug pick up one ft and cement back 500 ft.
3) Run CBL

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4) Drill out cement and packer
5) Run pipe and a packer and set 10 ft from bottom of 3 1/2
6) Notify State inspector 24 hrs in advance and perform MIT test
7) Return well to service

This is Not the exact way this Happened. Some Facts of what happened are Not in this explanation. You will Contact the office OR Inspector before any more well work is to be done

24hr Notice before

6-2-15

3902210W

WW-9
(2/15)

API Number 47 - 039 - 02210
Operator's Well No. Wallace #1 Disposal

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Viking Energy Corporation OP Code 51440

Watershed (HUC 10) Tuppers Creek Quadrangle Pocatalico

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: Fresh Water

Will a synthetic liner be used in the pit? Yes ☐ No ☑ If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- ____ Land Application
- ■ Underground Injection (UIC Permit Number 2D0392210)
- ____ Reuse (at API Number ____)
- ____ Off Site Disposal (Supply form WW-9 for disposal location)
- ____ Other (Explain ____

4/14/15

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. No drilling will take place

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

Additives to be used in drilling medium? Acid

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No drilling

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

-Landfill or offsite name/permit number? ____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 Michael Pinkerton

Company Official (Typed Name) Michael Pinkerton

Company Official Title President

Subscribed and sworn before me this 14 day of May, 2015

Mark T. Wo Notary Public

My commission expires 9-8-2019

3902210W

Form WW-9

Operator's Well No. Wallace #1 Disposal

Viking Energy Corporation

Proposed Revegetation Treatment: Acres Disturbed N/A Prevegetation pH N/A

Lime N/A Tons/acre or to correct to pH N/A

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
work area is all gravel		Same	

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

Title: Field Insp Oil & Gas Date: 5-14-15

Field Reviewed? (✓) Yes ( ) No

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Office of Oil and Gas
MAY 14 2015
WV Department of
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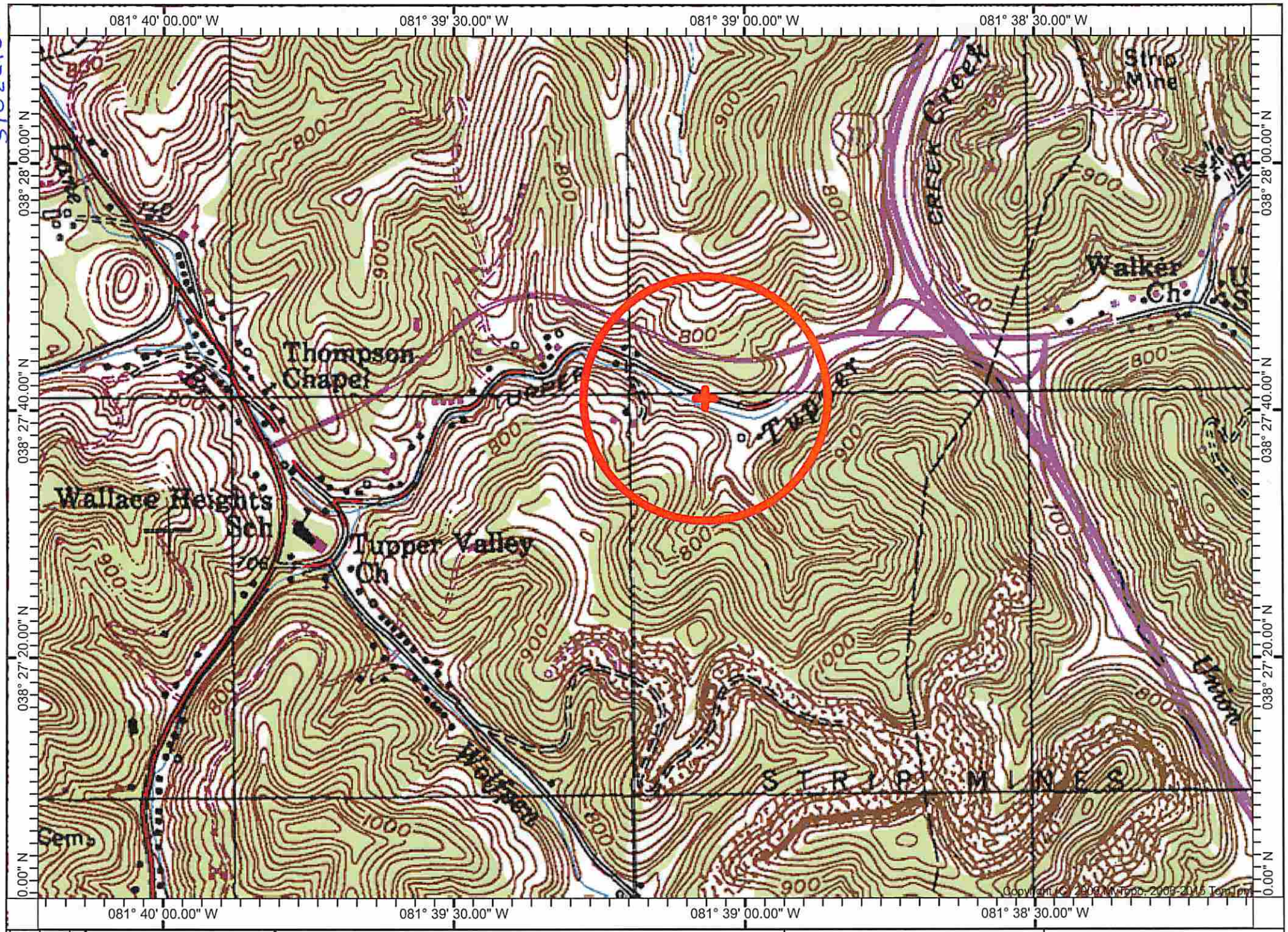

N	Decl. 7.72° W Datum: NAD83	Map Name: POCATALICO Created: 05/14/15 08:00:30 AM	Scale: 1 inch = 1,000 ft. Contour Interval: 20 Feet

0 1000 FEET

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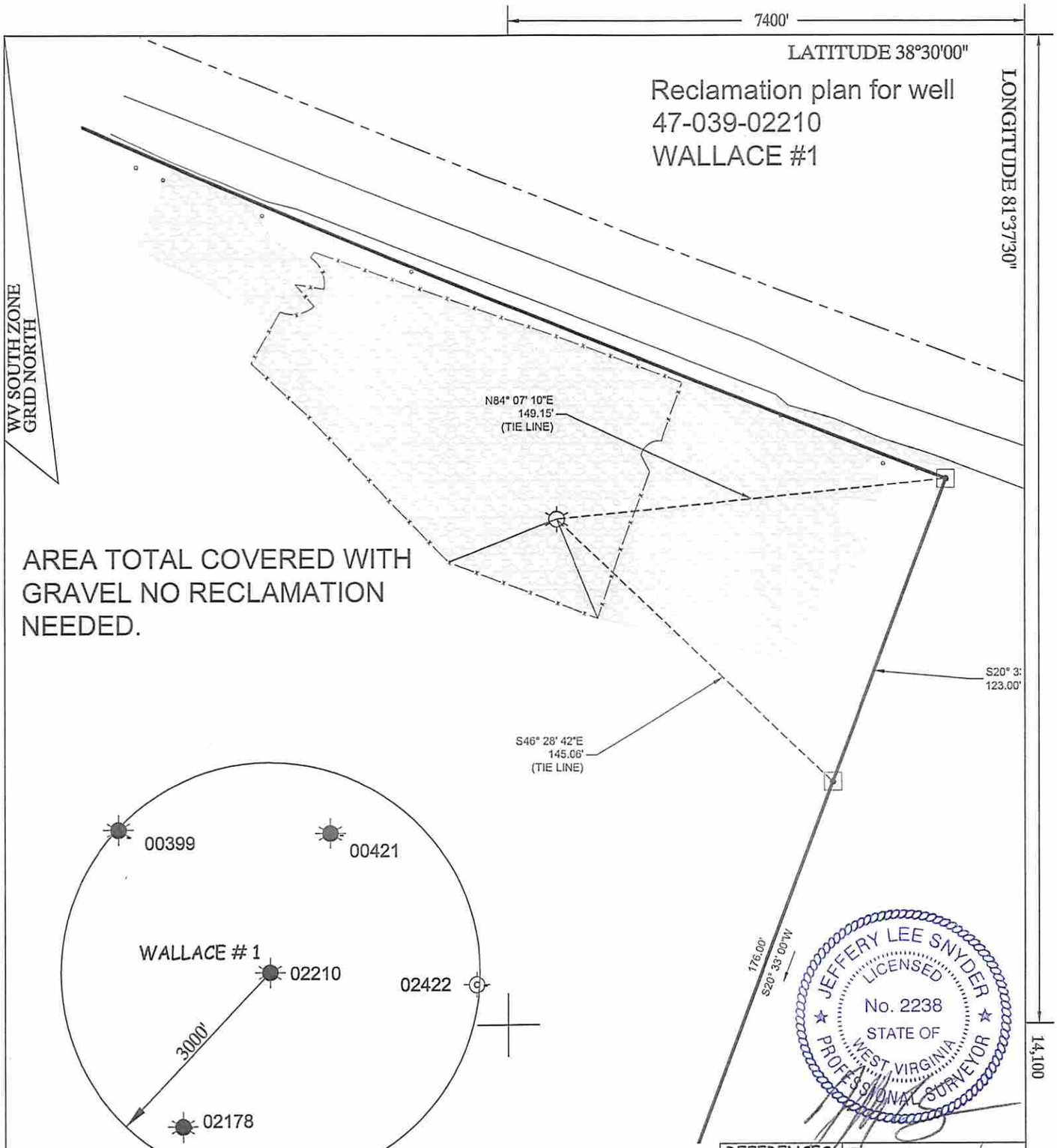
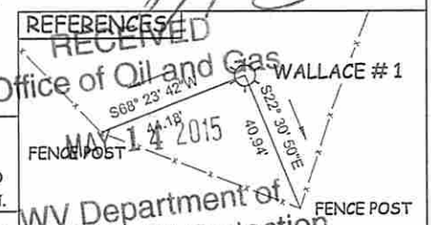


(+) DENOTES LOCATION OF WELL
ON UNITED STATES TOPOGRAPHIC MAPS

REFERENCES



SCALE 1" = 50'

RECEIVED
Office of Oil and Gas
MAY 14 2015
WV Department of
Environmental Protection

JOB # 15-500-18
DRAWING # 15-500-18
SCALE 1" = 150'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 PERSCRIBED BY THE DEPTARTMENT OF ENVIRONMENTAL PROTECTION.

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

WHITE BROTHERS CONSULTING LLC.
447 CALL ROAD SUITE 216
CHARELSTON, WV 25312

JEFFERY LEE SNYDER PS. 2238

DATE 5-13-15
OPERATOR'S WELL# WALLACE #1
API WELL #
47 - 039 - 2D0392210
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL X
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
LOCATION: ELEVATION 674.16 WATERSHED TUPPERS CREEK DISTRICT UNION COUNTY kANAWHA
QUADRANGLE POCATALICO 7.5' LAT. 38°27'41" LONG 81°39'04"
SURFACE OWNER VIKING ENERGY CORPORATION ACREAGE 4.27 ACRES +/-
OIL & GAS ROYALTY OWNER VIKING ENERGY CORPORATION LEASE ACREAGE 4.27 ACRES +/-
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG & ABANDON ___
CLEAN OUT & REPLUG ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) REWORK WELL (SPECIFIC IN PERMIT)
TARGET FORMATION NEWBURG ESTIMATED DEPTH 5584'
WELL OPERATOR VIKING ENERGY CORPORATION DESIGNATED AGENT MICHAEL PINKERTON
ADDRESS P.O. BOX 13366 ADDRESS P.O. BOX 13366
SISSONVILLE, WV 25320 SISSONVILLE, WV 25320

COUNTY NAME PERMIT

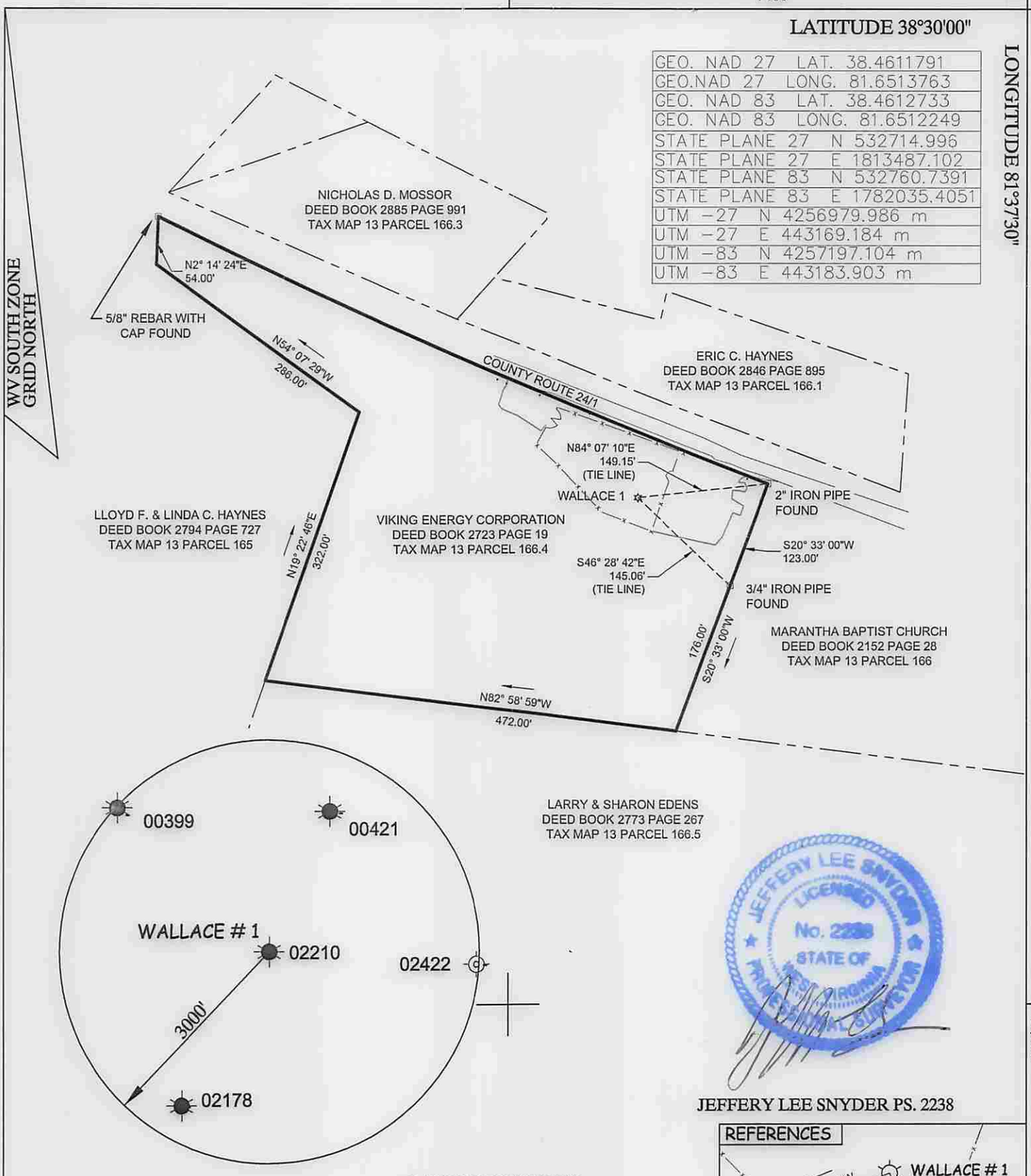
FORM WW-6

7400'

LATITUDE 38°30'00"

LONGITUDE 81°37'30"

GEO. NAD 27	LAT. 38.4611791
GEO.NAD 27	LONG. 81.6513763
GEO. NAD 83	LAT. 38.4612733
GEO. NAD 83	LONG. 81.6512249
STATE PLANE 27	N 532714.996
STATE PLANE 27	E 1813487.102
STATE PLANE 83	N 532760.7391
STATE PLANE 83	E 1782035.4051
UTM -27	N 4256979.986 m
UTM -27	E 443169.184 m
UTM -83	N 4257197.104 m
UTM -83	E 443183.903 m



14,100

JEFFERY LEE SNYDER PS. 2238

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

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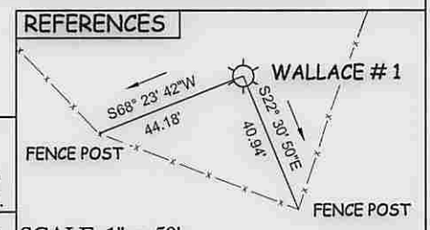

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