



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, August 21, 2018
WELL WORK PERMIT
Vertical / New Drill

ALLIED ENERGY, INC.
35 RIDGEWOOD BLVD

BELPRE, OH 45714 000

Re: Permit approval for VALENTINE 7
47-085-10326-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: VALENTINE 7
Farm Name: BETTY W. METZ
U.S. WELL NUMBER: 47-085-10326-00-00
Vertical New Drill
Date Issued: 8/21/2018

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.

47-085-10326

Ch# 1162
\$650⁰⁰

WW - 2B
(Rev. 8/10)

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

1) Well Operator: ALLIED ENERGY, INC. 309558 085-Ritchie 02-Grant 544-Petroleum
Operator ID County District Quadrangle

2) Operator's Well Number: Valentine #7 3) Elevation: 818'

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

5) Proposed Target Formation(s): 5th Sand Proposed Target Depth: 2680'

6) Proposed Total Depth: 4000 Feet Formation at Proposed Total Depth: Devonian Shale

7) Approximate fresh water strata depths: 165' offset well

8) Approximate salt water depths: 1150' offset well

9) Approximate coal seam depths: 600' offset well 085-05168 (COAL SEAM 1')

10) Approximate void depths,(coal, Karst, other): N/A on offset

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)
WELL NEVER DRILLED. Drill to depth of 4000'. Run electric log to determine oil/gas zone to complete well, most likely 5th Sand. Run cement bond log, perforate casing, conduct slick water, one stage, 5000 bbl frac into formation.

13) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8	A-500	48#	42'	42'	CTS
Fresh Water	9 5/8	A-500	26#	<u>400'</u>	<u>400'</u>	CTS
Coal	7"	A-500	17#	1600'	1600'	CTS
Intermediate						
Production	4 1/2"	J-55	10.5#	<u>TD ≈ 4000'</u>	<u>TD ≈ 4000'</u>	<u>TAC 300' ABOVE FRACK ZONE</u>
Tubing						
Liners						

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

08/24/2018



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date January 7, 1983
Operator's Well No. 1
Farm Florence Valentine #
API No. 47 - 085 - 5168 F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 696 Watershed Goose Creek
District: Grant County Ritchie Quadrangle Petroleum

COMPANY Rendova Oil Co.
ADDRESS P. O. Box 3106, Midland, Tx. 79702
DESIGNATED AGENT G. W. Townsend
ADDRESS 5th & Green St., Parkersburg, W. Va.
SURFACE OWNER F. Valentine
ADDRESS Harrisville, W. Va.
MINERAL RIGHTS OWNER F. Valentine
ADDRESS Harrisville, W. Va.
OIL AND GAS INSPECTOR FOR THIS WORK Paul Goodnight
ADDRESS Smithville, W. Va.
PERMIT ISSUED 5/8/81
DRILLING COMMENCED 5/21/81
DRILLING COMPLETED 5/29/82
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Conn.			
13-10"			
9 5/8			
8 5/8	1333.35	1333.35	504
7			
5 1/2			
4 1/2	5174.85	5174.85	858
3			
2			
Liners used			

RECEIVED
MAY 21 2010
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil & Gas

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4320-5128 feet
Depth of completed well 5174.85 feet Rotary X / Cable
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 4320-5128 feet
Gas: Initial open flow 80 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 80 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1200 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

08/24/2018

FORM IV-35
(REVERSE)

- 85-05168F

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
PERFORATIONS: 24 Total, 0.39" Entry Holes, @ 4320, 4332, 4345, 4338, 4351, 4354, 4374, 4378, 4569, 4928, 4950, 4970, 5000, 5025, 5050, 5079, 5088, 5100, 5103, 5108, 5116, 5123, 5128.

ACID: 1000 g, 15% H.E.

FRACTURING: 225 Bbls 2% KCl w/ 400,000 scf Nitrogen, 15,000# - 80/100 Sd;
25,000#-20/40 Sd.

WELL LOG

FORMATION: COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
			Including indication of all fres and salt water, coal, oil and ga
Clay & Mud	0	30	
Ss & Gravel	30	80	
Ls; W	80	90	
Red Shale & Ss.	90	250	
Sandstone	250	299	
Red Shale	299	599	
Coal, thin	599	600	
Shale	600	700	
Dunkard Ss.	700	725	
Shale	725	925	
Sand, Cow Run	925	1000	
Shale, dg	1000	1120	
Salt Sand	1120	1275	
Shale	1275	1350	
Sandstone	1350	1455	
Shale, dg	1455	1520	
Big Lime	1520	1000	
Big Injun	1600	1700	
Catskill Sd.	1700	2100	
Berea Sd.	2103	2106	
Top, Devonian Shale	2106		
Devonian Shale	2106	TD	

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Office of Oil & Gas
MAY 21 2010
WV Department of
Environmental Protection

(Attach separate sheets as necessary)

RENDOVA OIL COMPANY
Well Operator
By: [Signature]
Date: 1/7/03

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including

08/24/2018

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

WELL NOT DRILLED

API 47-085-10065 County 085 - Ritchie District 02 - Grant
Quad 544 - Petroleum Pad Name _____ Field/Pool Name _____
Farm name Betty W. Metz Well Number Valentine #7
Operator (as registered with the OOG) ALLIED ENERGY, INC.
Address 35 Ridgewood Blvd City Belpre State OH Zip 45714-8218

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

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Office of Oil and Gas

JUL 13 2017

WV Department of
Environmental Protection

Elevation (ft) _____ GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Date permit issued _____ Date drilling commenced _____ Date drilling ceased _____
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

Completed by David W. Wiggers, Bookkeeper Telephone (304) 628-3672 Reviewed by: _____
Signature David W. Wiggers Title Agent for Allied Energy, Inc. Date 7 July 2017 **08/24/2018**

WW-2A
(Rev. 6-14)

1.) Date: _____
2.) Operator's Well Number Valentine #7
State County Permit
3.) API Well No.: 47- 085 - 10326

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: / 5) (a) Coal Operator
(a) Name Betty W. Metz Name N/A
Address 95 Paul Metz Lane Address _____
Petroleum, WV 26161-6441
(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name N/A
Address _____
(c) Name _____ Name N/A
Address _____ Address _____
6) Inspector Michael Goff (c) Coal Lessee with Declaration
Address P. O. Box 134 Name N/A
Petroleum, WV 26412-0134 Address _____
Telephone (304) 549-9823

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
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 ALLIED ENERGY, INC.
By: David W. Wiggers David W. Wiggers
Its: Agent
Address: 35 Ridgewood Blvd
Belpre, OH 45714-8218
Telephone: (740) 423-8820
Email: dwwiggers@yahoo.com

Subscribed and sworn before me this 30 day of May, 2017

Holland G. Massey Notary Public
My Commission Expires 12-7-2021

Oil and Gas Privacy Notice

Affidavit of Personal Service

State of West Virginia
County of Wood

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of –

- (1) Notice on Form WW-2(A) X / WW-3(A) ___ / WW-4(A) ___ / WW-5(A) ___ / WW-6(A) ___
 - (2) Application on Form WW-2(B) X / WW-3(B) ___ / WW-4(B) ___ / WW-5(B) ___ / WW-6(B) ___
 - (3) Plat showing the well location on Form WW-6, and
 - (4) Construction and Reclamation Plan on Form WW-9
- all with respect to operator's Well No. Valentine #7, located in Grant District, Ritchie County, West Virginia, upon the person or organization named –

Betty W. Metz

– by delivering the same in Ritchie County, State of West Virginia on the 23rd day of May, 2017 in the manner specified below.

(COMPLETE THE APPROPRIATE SECTION)

For an individual:

Handing it to him ___ / her X / or, because he ___ / she ___ / refused to take it when offered it, by leaving it in his ___ / her ___ / presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

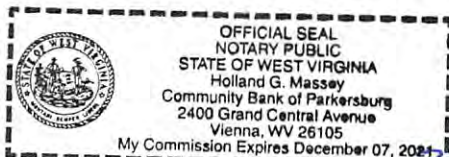
Handing it to _____, a partner of the partnership or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee ___ / officer ___ / director ___ / attorney in fact ___ / named _____.



David W Wiggers

(Signature of person executing service)

Taken, subscribed and sworn before me this 30 day of May, 2017.

My commission expires: 12-7-2021

Holland G. Massey
Notary Public

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County 085 - Ritchie

Operator ALLIED ENERGY, INC.
Operator well number Valentine #7

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, 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.

Betty W. Metz
Signature

Betty W. Metz
Print Name

Date 5/17/17

Company Name _____
By _____
Its _____ Date _____

Signature _____ Date _____

08/24/2018

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County 085-Ritchie
Operator ALLIED ENERGY, INC.

Operator's Well Number Valentine #7

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 N/A
By _____
Its _____

Date

Signature

Date

**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
Betty W. Metz	Allied Energy, Inc.	12.5%	LB 247 / 913

**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: David W. Wiggers
 ALLIED ENERGY, INC.
 By: Its: David W. Wiggers, Agent

WW-2B1
(5-12)

Well No. Valentine #7

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 contractor chosen to collect sample.

Certified Laboratory Name	<u>Reliance Laboratories, Bridgeport, WV</u>
Sampling Contractor	<u>Smith Land Surveying, Glenville, WV</u>

Well Operator	<u>ALLIED ENERGY, INC.</u>
Address	<u>35 Ridgewood Blvd</u>
	<u>Belpre, OH 45714-8218</u>
Telephone	<u>(740) 423-8820</u>

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.

Betty W. Metz
95 Paul Metz Lane
Petroleum, WV 26161-6441

08/24/2018

JUL 30 2018

WW-9
(5/16)

WV Department of
Environmental Protection

API Number 47 - 085 - 10326
Operator's Well No. Valentine #7

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ALLIED ENERGY, INC. OP Code 309558

Watershed (HUC 10) Goose Creek Quadrangle 544 - Petroleum

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: Two pits, 1. Solid material drill cuttings 2. Fresh and/or salt water from drilling

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (or API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

MAG
7-25-18

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? None

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Test, treat to correct pH, allow to dry and bury

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

-Landfill or offsite name/permit number? No

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 April 1, 2016, 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 David W. Wiggers

Company Official (Typed Name) David W. Wiggers, Agent for Allied Energy, Inc.

Company Official Title Bookkeeper

Subscribed and sworn before me this 29th day of November, 2017

Holland G. Massey

Notary Public



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Holland G. Massey
Community Bank of Parkersburg
2400 Grand Central Avenue
Vienna, WV 26105
My Commission Expires December 07, 2018

My commission expires Dec. 7, 2021

08/24/2018

Proposed Revegetation Treatment: Acres Disturbed one and one-half acre Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 600 lbs/acre

Mulch 90 bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Contractor's Mix	100	Contractor's Mix	100

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: Reseed * mulch any disturbed areas.

Title: Oil & Gas Inspector Date: 7-25-18

Field Reviewed? Yes No

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Environmental Protection

08/24/2018

WW-9- GPP
Rev. 5/16

Page one of two
API Number 47 - 085 - _____
Operator's Well No. Valentine #7

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

Operator Name: ALLIED ENERGY, INC.

Watershed (HUC 10): Goose Creek

Quad: 544 - Petroleum

Farm Name: Betty W. Metz

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Excess fluids to be directed to lined pit(s). Upon reaching TD, with casing and cementing completed, fluids in pit will be tested, treated, aerated, and sprayed across land (as rain) not allowed to puddle and/or pond. Solid drill cuttings will be left to dry in pit(s) then be buried on site.

Inadequate pit size, pit liner not large enough to contain contents of pit.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Pit(s) have dikes sufficient to contain effluent from drilling process and pits are lined with 30 ml plastic.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Goose creek is closest body of water at approximately 700 feet from well site.

The distance from the Well Head Protection Area to the discharge area is between 30- to 50-feet to the pit(s).

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

WV Department of
Environmental Protection

All pit(s) have sufficient volume to contain well waste and are lined with 20 mil plastic. Water tanks are moved to well sites to hold any excess fresh and/or salt water from the well.

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

08/24/2018

At this time we are not aware of any issues with groundwater.
The closest water well is approximately a quarter of a mile away.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for fill or deicing at any well.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Rig operator is directed to only use the pit as needed
Liquids will be tested, treated, brought to the correct pH, then aerated and sprayed (as rain) across the landscape without making puddles or ponds.
Solids will be left to dry and buried on site.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Inspections will be daily during the drilling process, and on a weekly basis during the ongoing production of the well, monitored by the well tender and Field Manager.

Signature: David W. Wiggers

Date: 11/29/17

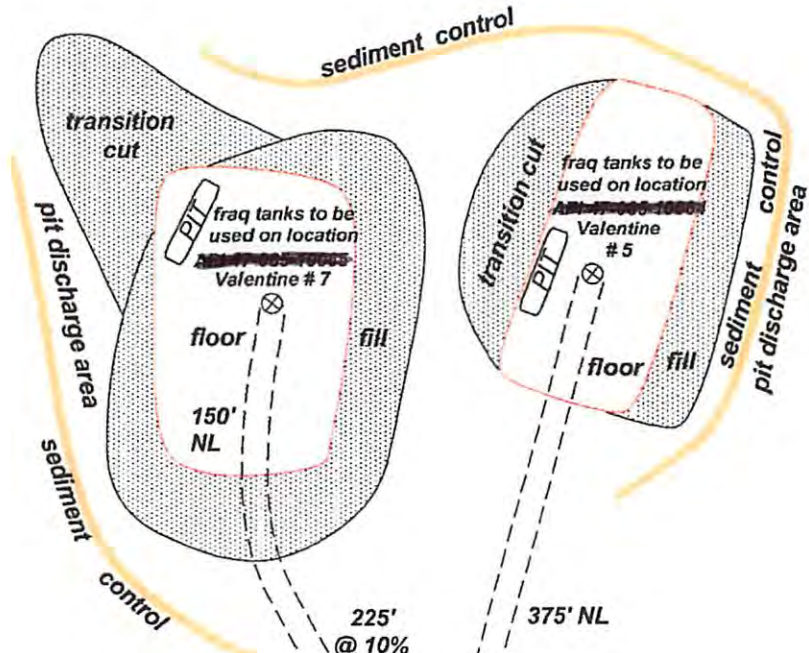
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47-085-10326



- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.

225' @ 10%

375' NL

shed

house

375' @ 10%

175' @ 20%

gravel driveway

County Route 18

County Route 18/5

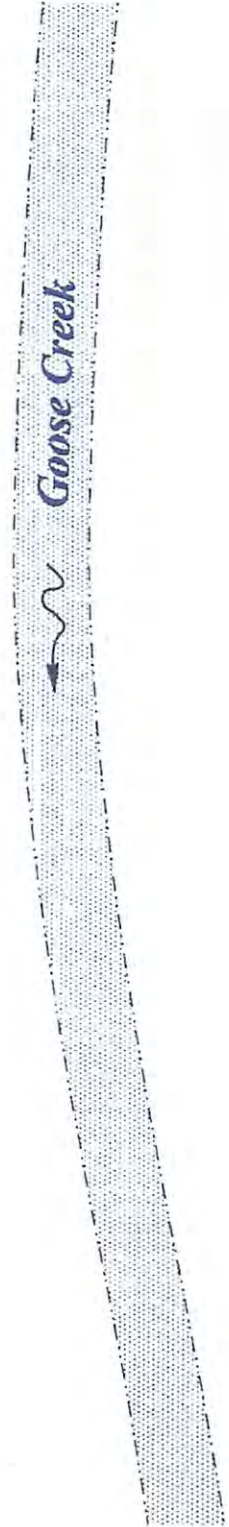
Paul Metz Lane

gravel

electric line

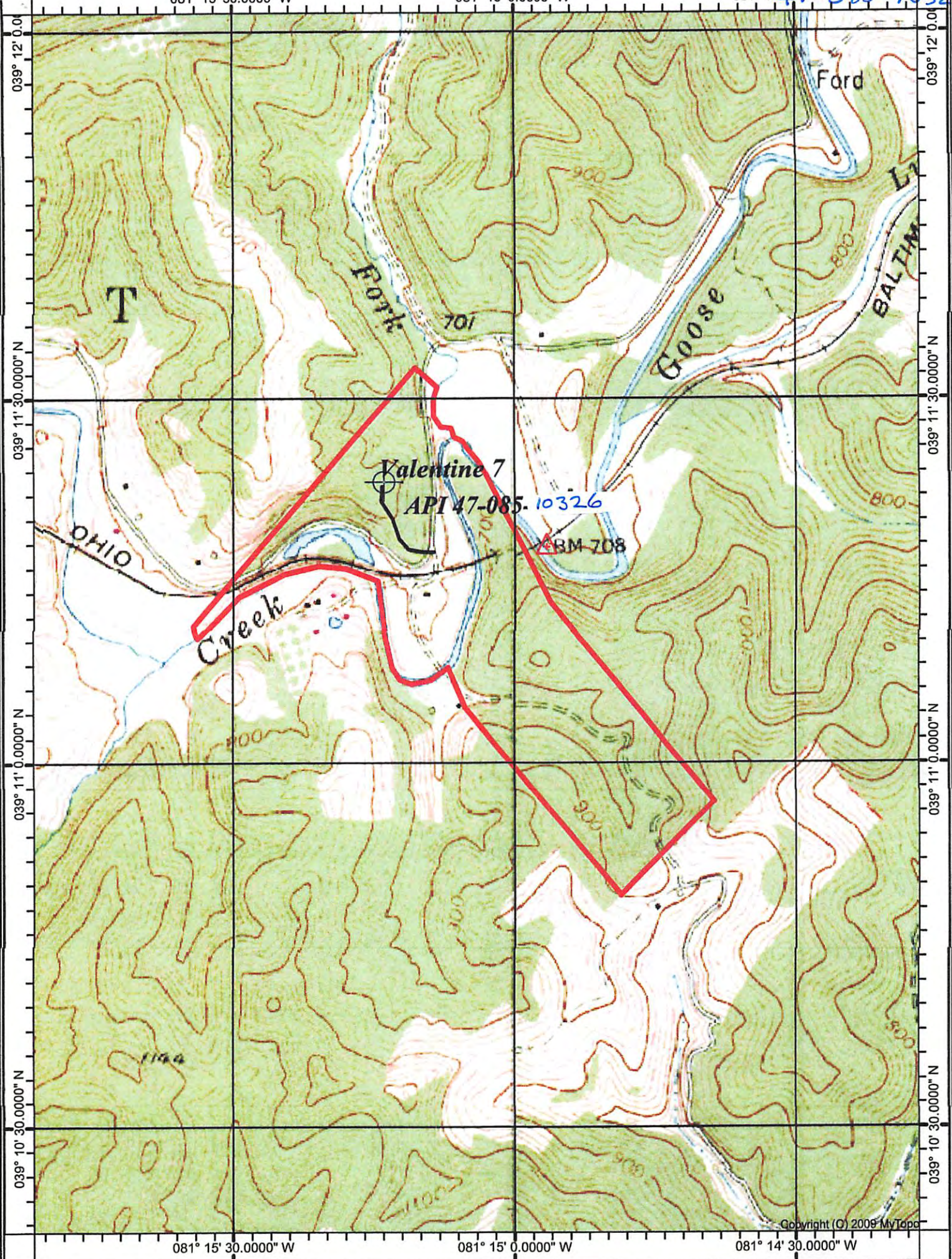
Valentine # 1

API 47
-085-5168



Allied Energy, Inc.
 Well: Valentine #7 API: 47-085-10326
 Florence Valentine 111.5 acre Lease
 Grant District Ritchie County
 West Virginia

47-085-10326



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08/24/2018

PETROLEUM QUADRANGLE

SCALE 1' = 1000'

ALLIED ENERGY, INC.

WELL: VALENTINE #7 API 47-085-~~10065~~ 10326
MARK & MARY MASON 111.5 ACRE LEASE

GRANT DISTRICT RITCHIE COUNTY WEST VIRGINIA

top hole 81°15' 11.52" (81.253200)

1110'

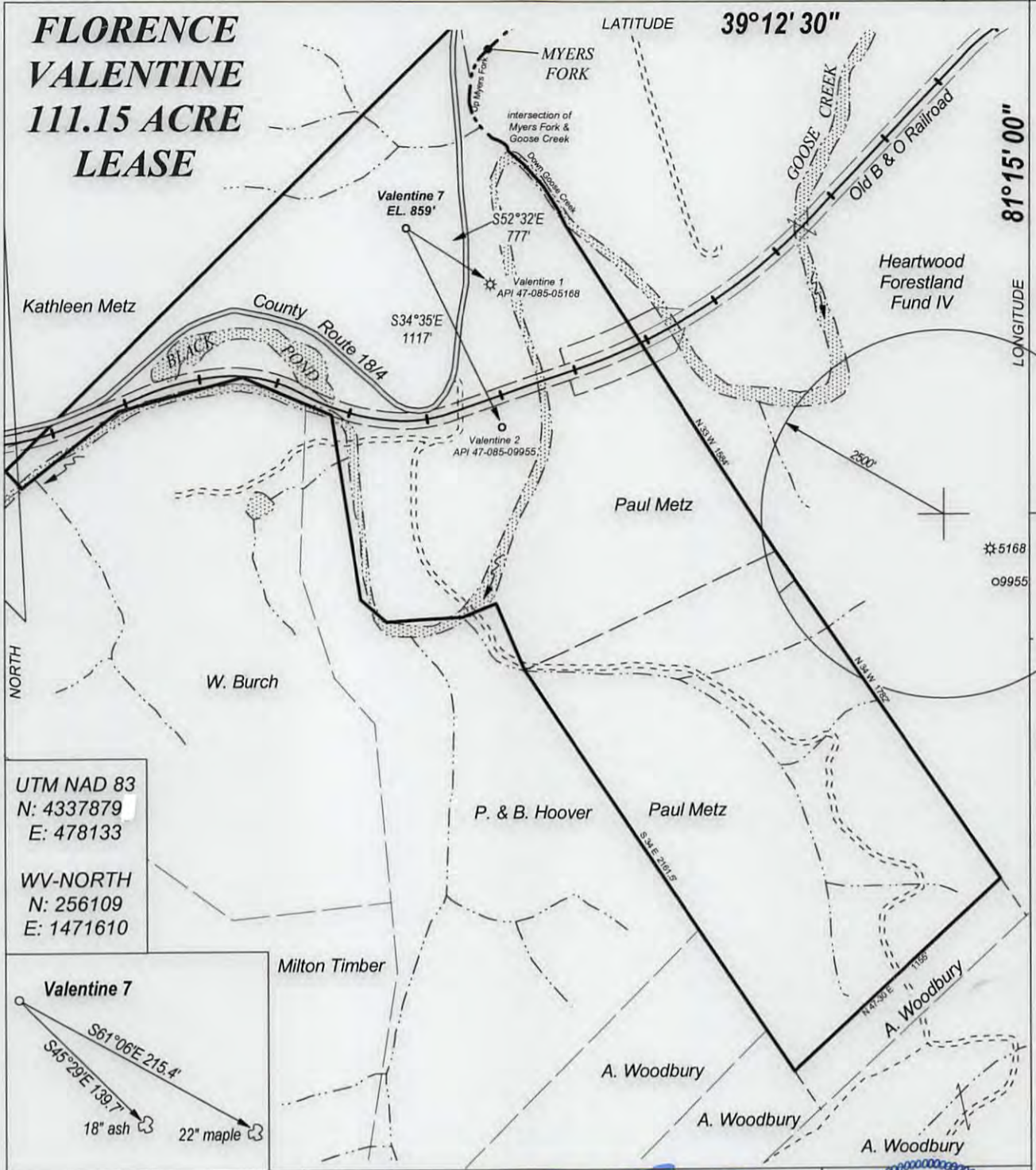
FLORENCE VALENTINE 111.15 ACRE LEASE

LATITUDE 39°12' 30"

81°15' 00"

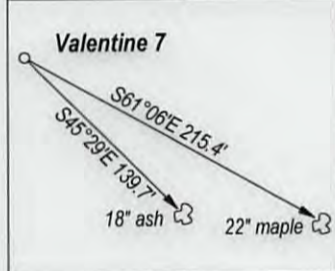
LONGITUDE 6690'

top hole 39°11' 23.44" (39.189844)



UTM NAD 83
 N: 4337879
 E: 478133

WV-NORTH
 N: 256109
 E: 1471610



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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 DEPARTMENT OF ENERGY.

(SIGNED) _____
 PROFESSIONAL SURVEYOR: 551



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

DATE MAY 6TH, 2017
 OPERATORS WELL NO. VALENTINE 7

API 47 - 085 10326
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF GAS) PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOATION: ELEVATION 859' WATER SHED GOOSE CREEK
 DISTRICT GRANT COUNTY RITCHIE QUADRANGLE PETROLEUM

SURFACE OWNER BETTY W. METZ ACREAGE 66.52
 OIL & GAS ROYALTY FLORENCE VALENTINE LEASE AC. 111.5

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____
 FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____
 PERFORATE NEW FORMATION _____
 OTHER PHYSICAL CHANGE IN WELL _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4000'

WELL OPERATOR ALLIED ENERGY, INC. DESIGNATED AGENT JON M. MAKEEVER
 ADDRESS P. O. BOX 3005 ADDRESS 273 MAIN ST, P.O. BOX 401
SARATOGA, CA 95070 CAIRO, WV 26337-0401

08/24/2018

FORM WW - 6

COUNTY NAME PERMIT