



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, August 24, 2017
WELL WORK PERMIT
Vertical / Re-Work

ALLIED ENERGY, INC.
35 RIDGEWOOD BLVD

BELPRE, OH 45714 000

Re: Permit approval for VALENTINE 2
47-085-09955-00-00

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

Operator's Well Number: VALENTINE 2
Farm Name: METZ, BETTY W.
U.S. WELL NUMBER: 47-085-09955-00-00
Vertical / Re-Work
Date Issued: 8/24/2017

Promoting a healthy environment.

08/25/2017

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

8509955W

CK# 1159
\$650.00

API: 47-085-09955

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

Re-work FRACTURE

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

2) Operator's Well Number: Valentine #2 3) Elevation: 679'

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

5) Proposed Target Formation(s): Gordon Sand Proposed Target Depth: 2650'

6) Proposed Total Depth: 3000' Feet Formation at Proposed Total Depth: Gordon

7) Approximate fresh water strata depths: 15' see attached WR-35 and page from Daily Drilling Report

8) Approximate salt water depths: none reported

9) Approximate coal seam depths: 610", 990', 1030', 1300'

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

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 came in with no frac. REVIEW electric log to determine oil/gas zones in which to frac well.
Cement 4 1/2" ± perf casing, then conduct a slick water, 3 stage, 3000 to 5000 bbl
 frac into the appropriate formations.

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'	R2	43#	36'	36'	Sanded in
Fresh Water	9 5/8	R3	26#	336'	336'	150 sks - CTS
Coal						
Intermediate	7"	R3	17#	1356'	1356'	200sks CTS
Production	4 1/2"	R3	9.5#	<u>2982'</u>	<u>2982'</u>	<u>≈ 75 SKS or CTS</u>
Tubing						RECEIVED
Liners						Office of Oil and Gas

6 bbl circulated to pit

JUL 31 2017

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

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

API 47-085-09955 County 085-Ritchie District 02-Grant
Quad 544-Petroleum Pad Name _____ Field/Pool Name _____
Farm name Betty W. Metz Well Number Valentine #2
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 _____

Elevation (ft) 679' 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 N/A
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other N/A
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 01/19/2012 Date drilling commenced 03/28/2012 Date drilling ceased 04/01/2012
Date completion activities began N/A Date completion activities ceased N/A
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 15' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 610, 990, 1030, 1300' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by: _____

AUG 11 2017

WR-35
Rev. 8/23/13

API 47-085 - 09955

Farm name Betty W. Metz

Well number Valentine #2

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	15"	13 3/8"	36'	N	R2 / 43#		Sanded In
Surface	12 1/4"	9 5/8"	336'	N	R3 / 26#		Cement to Surface
Coal							
Intermediate 1	8 7/8"	7"	1356'	N	R3 / 17#		CTS, 6 bbl circ to pit
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	2982'	N	R3 / 9.5#		UNKNOWN
Tubing							
Packer type and depth set							

Comment Details WILL BOND LOG 4 1/2" TO DETERMINE TOC BEFORE PERFORATING AND FRACTURING.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	A	160	15.6#	1.18		Surface	
Coal							
Intermediate 1	A	100 1% gel / 2% gel	15.2 / 14.7	1.26 / 1.36		Surface	
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) _____ Loggers TD (ft) _____
 Deepest formation penetrated _____ Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS RECEIVED Office of Oil and Gas

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS AUG 11 2017

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED WV Department of Environmental Protection

85 099 55W

TDC DAILY DRILLING REPORT

Report No.	5	Days since Spud	5	Project Type	New Well	Supervisor	Mike Weiford
Date:	4/1/2012	Well	Valentine 2	API #	47-085-09955	County/State	Ritchie
Rig	TDC Rig #5	Operator			Allied		

Depth at Report Time (0600)	Ftg Past 24 Hrs.			Total Ftg	Drilling Medium	Bit Information (Size / Type - Serial Number)	
	Vertical						
Elevation	679'	225	2780	3005	Air	1	Smith Hammer 15' Smith Bit
Estimated TD	3000'					2	Smith Hammer 12 1/4" FFDB CR072648
Target Formation	Gordon					3	Smith Impax 8 AH0296 8 7/8" FFDB SA3159
Surveys						4	Atlas Copco QL 60 50154 6 3/8" Drill King FFDB 49197
Bbl's of Used Product (Cumulative)	SOAP	0	1	Fuel Measurement		5	
	Hydraulic Oil	0	0	40"		6	
	Motor Oil	0	0			7	
				Water Tank #1	N/A		
				Water Tank #2	N/A		

Casing and Cement Summary						
String	Size (OD)	Weight (#/ft)	Grade	Setting Depth	Cement Amount (sks - Lead / Tail)	Type & Yield (cf/sk)
Conductor	13 3/8"	43	R2	36'	Sanded In	N/A
Surface	9 5/8"	26	R3	336'	150 sks Class A Cement	Cement to surface
Surface						
Intermediate	7"	17	R3	1356'	200 sks Class A Cement	Cement to surface. 6 bbl circulated to pit.
Production	4 1/2"	9.5	R3	3000'	Not cased	

Current Operation (0600)			RDMO
Time		Total Hours	24 hrs Forecast - RDMO
Start	End		Activity Details *Safety Meeting and Rig Check performed at the start of each shift.
6:00	8:00	2	Drill 6 3/8" hole. TD @ 8:00 @ 3005'.
8:00	9:00	1	Clean hole.
9:00	12:00	3	TOH
12:00	12:30	0.5	Hook up log truck.
12:30	15:00	2.5	Log hole. Loggers TD 3036'.
15:00	16:00	1	Nipple down, take 7" open hole gas measurement, install 7"x2" swage, 2" valve, bull plug, needle valve and gauge.
16:00	6:00	14	Rig down, clean up, prepare to move rig.
Total Hours:		24	

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July 31, 2017

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AUG 01 2014

Additional Information	Details
Fresh Water	15'
Salt Water	
Gas Checks / Amount	Gas and Oil smell @ 1330', 1730, 2900.
Surveys	
Other Notable Information	Coal @ 610, 990, 1030, 1300.

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WV D 08/25/2017
Environmental Protection

850 9955W

WW-2A
(Rev. 6-14)

1). Date: _____
2.) Operator's Well Number Valentine #2
State County Permit
3.) API Well No.: 47- 085 - 09955

**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: (a) Name Betty W. Metz *Hand Delivered* Address 95 Paul Metz Lane
Petroleum, WV 26161-6441
(b) Name _____ Address _____
(c) Name _____ Address _____
6) Inspector Michael D. Goff Address ~~4725 Auburn Dr~~ P.O. Box 134
Pullman, WV 26421-8808 Telephone [304] 549-9823
5) (a) Coal Operator Name N/A Address _____
(b) Coal Owner(s) with Declaration Name _____ Address _____
(c) Coal Lessee with Declaration Name _____ Address _____

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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:

- _____ 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.

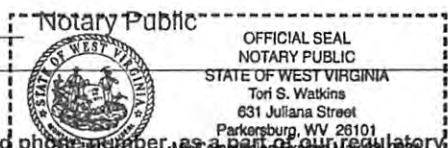
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true,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

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

Well Operator ALLIED ENERGY, INC.
By: Daniel 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 25 day of April 2017, ALLIED ENERGY, INC.

Tori S. Watkins
My Commission Expires May 23 2021
Oil and Gas Privacy Notice



08/25/2017

8509955W

WW-70
Rev. 7/01

Well Name: Valentine #2
API: 47-085-09955

Affidavit of Personal Service

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JUL 31 2017

State of West Virginia
County of Wood

WV Department of
Environmental Protection

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 #2, 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:

[X] 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 23 day of May, 2017.

My commission expires: 12-7-2021

Holland G. Massey

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

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, 2021
08/25/2017

8509955W

WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County 085 - Ritchie Operator ALLIED ENERGY, INC.
Operator well number Valentine #2

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: Office of Oil and Gas

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JUL 31 2017

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

WV Department of
Environmental Protection

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

Date 5-23-17

Company Name N/A
By David W. Wiggers Date 5/23/17
Its

Betty W. Metz

Print Name

David W. Wiggers 5/23/17
Signature Date

08/25/2017

**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%	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

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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:

ALLIED ENERGY, INC.
David W. Wiggers David W. Wiggers
 Agent

8509955

WW-9
(5/16)

API Number 47 - 085 - 09955
Operator's Well No. Valentine #2

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 Any well effluent will be contained in tanks and disposed of properly, off-site.

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number 47-085-09965 / 47-085-09974 - No Land Application)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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

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

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-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 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) ALLIED ENERGY, INC.

Company Official Title David W. Wiggers, Agent

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Office of Oil and Gas

JUL 31 2017

Subscribed and sworn before me this 25 day of April

Tori S. Watkins

My commission expires May 23, 2021

WV Department of Environmental Protection

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Tori S. Watkins
631 Juliana Street
Parkersburg, WV 26101
My Commission Expires 05/23/2021

Proposed Revegetation Treatment: Acres Disturbed Less than one 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
<u>Contractor's Mix</u>	<u>100</u>	<u>Contractor's Mix</u>	<u>100</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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: _____

Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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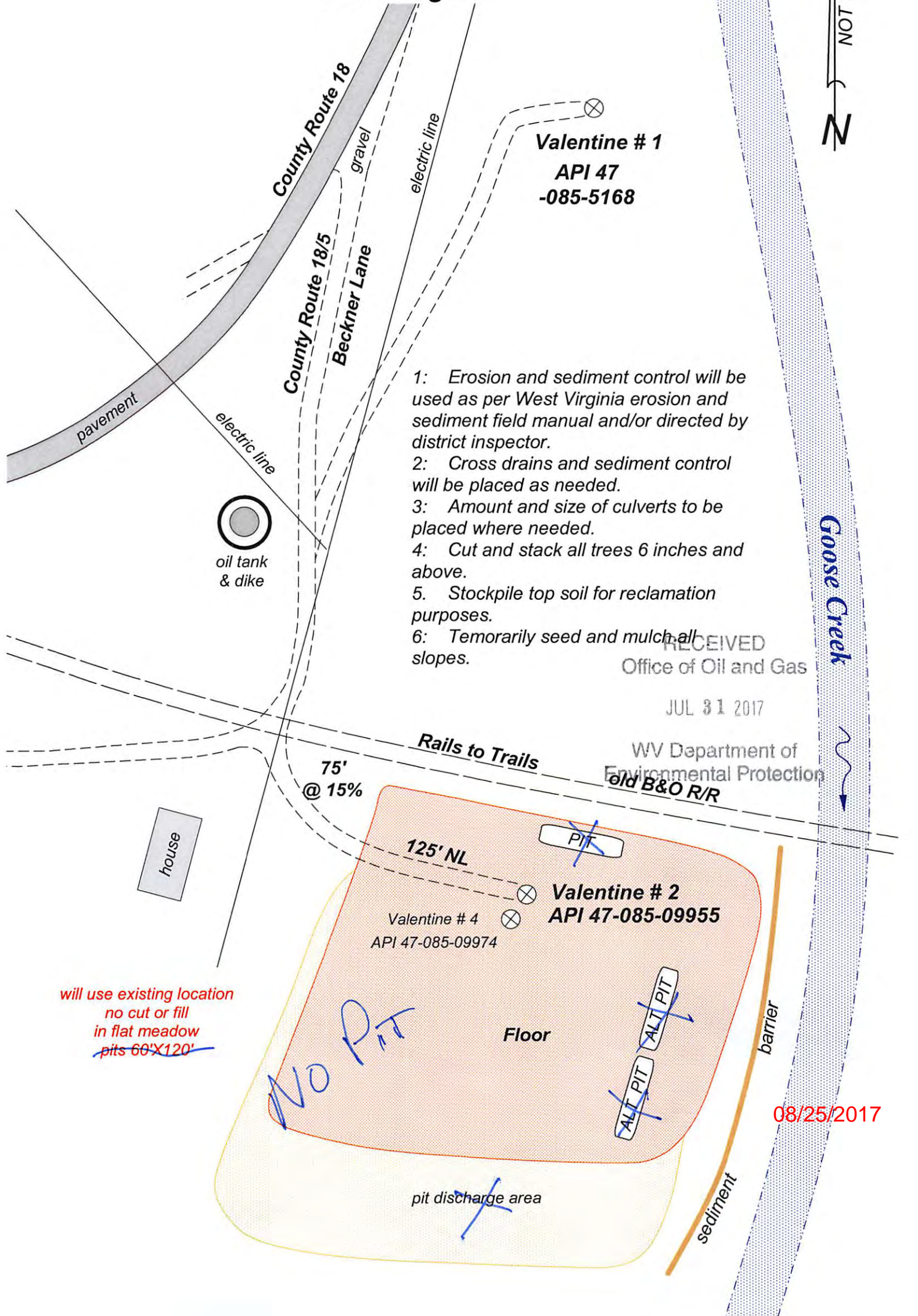
JUL 31 2017

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08/25/2017

8509955W

Allied Energy, Inc.
Well: Valentine # 2 API 47-085-09955
Florence Valentine 111.5 Acre Lease
Grant District Ritchie County
West Virginia

NOT TO SCALE
 N



- 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.

RECEIVED
 Office of Oil and Gas
 JUL 31 2017

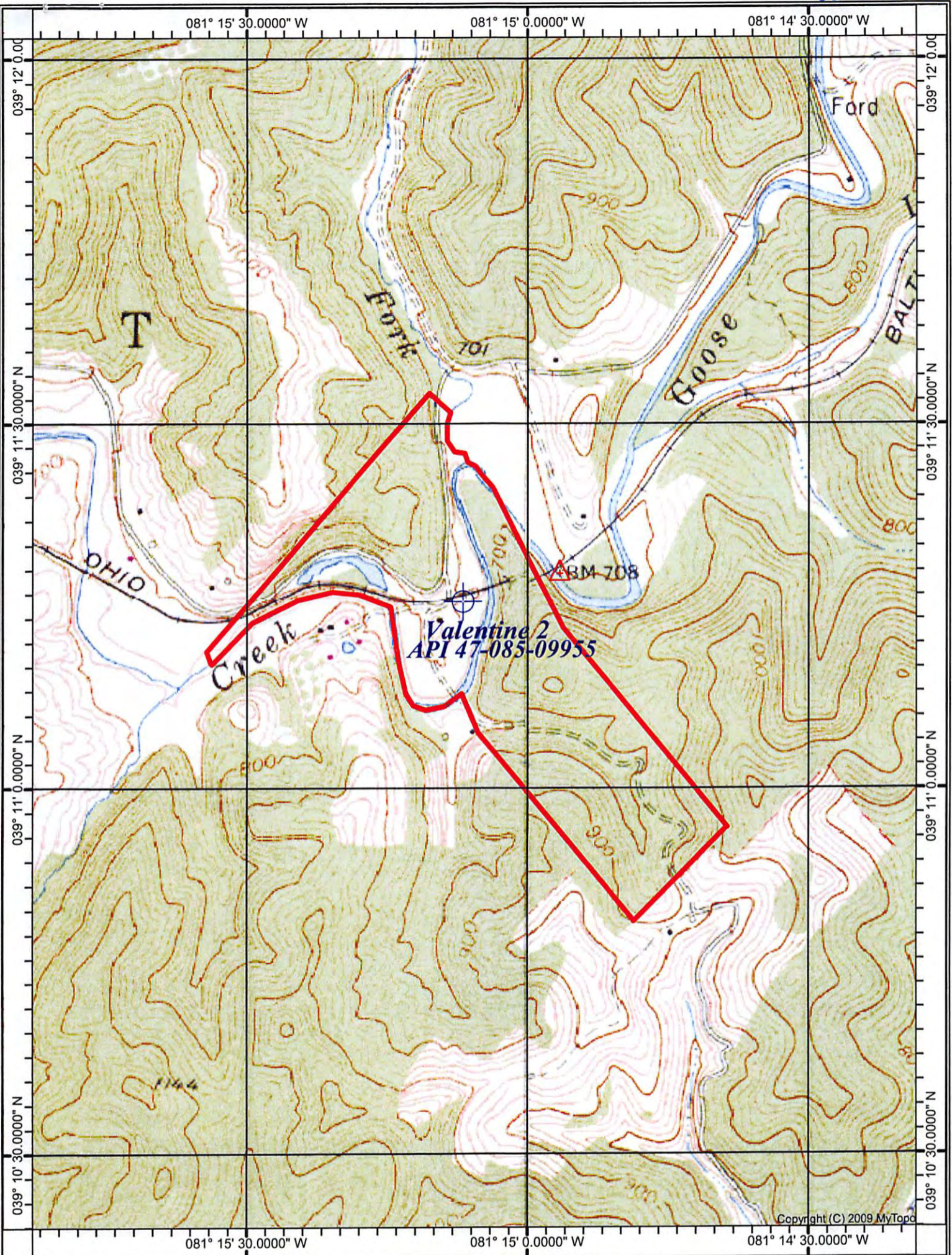
WV Department of
 Environmental Protection
 old B&O R/R

will use existing location
 no cut or fill
 in flat meadow
 pits 60'X120'

NO PIT

08/25/2017

85 09955W



PETROLEUM QUADRANGLE

SCALE 1' = 1000'

ALLIED ENERGY, INC.

08/25/2017

WELL: VALENTINE API 47-085-09955
MARK & MARY MASON 111.5 ACRE LEASE

GRANT DISTRICT RITCHIE COUNTY WEST VIRGINIA

top hole 81°15' 05.926" (81.251660)

450

FLORENCE VALENTINE 111.15 ACRE LEASE

D.M.P. = District-Map-Parcel

K Metz DB 265-358 S-34-29

Valentine 1 API 47-085-5168

Betty Metz DB 219-810 S-34-46

Heartwood Forestland DB 283-542 S-35-05

County Route 18/4
BLACK POND

N04°12'W 447'

N01°02'E 1201'

Valentine 2 EL. 679' 085-09955

Betty Metz DB 219-810 S-34-46

W. Burch DB 220-128 S-34-45

P. & B. Hoover DB 272-330 S-34-50

Betty Metz DB 219-810 S-34-46

Milton Timber DB 303-1019 S-34-45

A. Woodbury DB 294-790 S-35-15

A. Woodbury DB 294-790 S-35-15

A. Woodbury DB 294-790 S-35-15

UTM NAD. 83
N: 4337609
E: 478282

WV- NORTH
NAD. 83
N: 255229
E: 1472082

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) *William R. Mossor*
PROFESSIONAL SURVEYOR: 551



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

DATE APRIL 8TH, 2017
OPERATORS WELL NO. VALENTINE 2

API 47 - 085 - 09955 W
STATE COUNTY PERMIT

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

LOATION: ELEVATION 679' 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 CEMENT, BOND LOG, PERF., AND COMPLETE
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION 5TH SAND ESTIMATED DEPTH +/- 1700

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

FORM WW - 6

COUNTY NAME

PREMIT

08/25/2017

39°11' 14.722" (39.187423)

81°15' 00"

7580'

LONGITUDE

well plat location

well plat location

LATITUDE 39°12' 30"

MYERS FORK

intersection of Myers Fork & Goose Creek

Down Goose Creek

GOOSE CREEK

Old B & O Railroad

NORTH