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**west virginia** department of environmental protection

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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

October 02, 2013

**WELL WORK PERMIT**

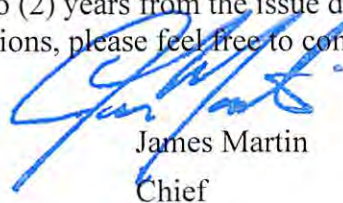
**Vertical Well**

This permit, API Well Number: 47-8510065, issued to ALLIED ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: VALENTINE 7  
Farm Name: METZ, BETTY W.  
**API Well Number: 47-8510065**  
**Permit Type: Vertical Well**  
Date Issued: 10/02/2013

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 Ritchie Grant Petroleum  
Operator ID County District Quadrangle

2) Operator's Well Number: Valentine 7 3) Elevation: 859'

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

5) Proposed Target Formation(s): Devonian Shale Proposed Target Depth: 3600'

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

7) Approximate fresh water strata depths: 206' offset well

8) Approximate salt water depths: 1191' offset well

9) Approximate coal seam depths: N/A

10) Approximate void depths,(coal, Karst, other): \_\_\_\_\_

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

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

Drill to a depth of 4000'. Run electric logs to determine the oil/gas zones to complete the well in, most likely, the Devonian Shale formation.  
Run a cement bond log, then perforate the casing and conduct a slick water, 1 stage 5000 barrel frac into the formation or 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		48#	42'	42'	C.T.S.
Fresh Water	9 5/8	A-500	26#	400'	400'	C.T.S.
Coal	7	A-500	17#	1600'	1600'	C.T.S.
Intermediate						
Production	4 1/2	J-55	10.5#	TD		~4000'
Tubing						
Liners						

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

WV Department of  
Environmental Protection

*[Signature]*  
8-28-13 10/04/2013



8510065

WW-2A  
(Rev. 6-07)

1). Date: 8/12/13  
2.) Operator's Well Number F. Valentine 7  
State County Permit  
3.) API Well No.: 47- 085 - 10065

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, Address Rt. 1 Box 143, Petroleum, WV 26161  
5) (a) Coal Operator Name, Address  
(b) Coal Owner(s) with Declaration Name, Address  
(c) Coal Lessee with Declaration Name, Address  
6) Inspector David Cowan, Address Rt. 1 Box 202, Harrisville, WV 26362, Telephone (304) 628-4016

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

OR  
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: David W. Wiggers /David W. Wiggers  
Its: Agent  
Address 35 Ridgewood Blvd., Belpre, OH 45714  
Telephone (740) 423-8820

Subscribed and sworn before me this 13th day of August

My Commission Expires August 13, 2022  
Oil and Gas Privacy Notice

RECEIVED  
Notary Public, State of West Virginia  
Lisa A Duskey  
Community Bank of Parkersburg  
631 Juliana Street  
PO Box 988  
Parkersburg WV 26101  
My Commission Expires August 13, 2022

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

10/04/2013





WW-2B1  
(5-12)

Well No. F. 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 contactor chosen to collect sample.

Certified Laboratory Name Reliance Laboratories, Bridgeport, WV  
Sampling Contractor Smith Land Service

Well Operator Allied Energy Inc.  
Address Rt. 1 Box 30-A  
Petroleum, WV 26161  
Telephone (304) 628-3672

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 Metz  
Rt. 1 Box 143  
Petroleum, WV  
26161

RECEIVED  
Office of Oil & Gas  
SEP 10 2013  
WV Department of  
Environmental Protection

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

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

Operator Name Allied Energy Inc. OP Code 309558

Watershed Goose Creek Quadrangle Petroleum

Elevation 859' County Ritchie District Petroleum

Description of anticipated Pit Waste: Drilling fluid

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No x *5000*

Will a synthetic liner be used in the pit? yes. If so, what mil.? 40 mil 20 mil

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

Additives to be used? \_\_\_\_\_

Will closed loop system be used? No

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

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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

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

Company Official Signature David W Wiggers

Company Official (Typed Name) David W. Wiggers

Company Official Title Agent

Subscribed and sworn before me this 13th day of August, 20 13

*Handwritten signature of Lisa A Duskey*

Notary

My commission expires August 13, 2022



RECEIVED  
Office of Oil & Gas

SEP 10 2013

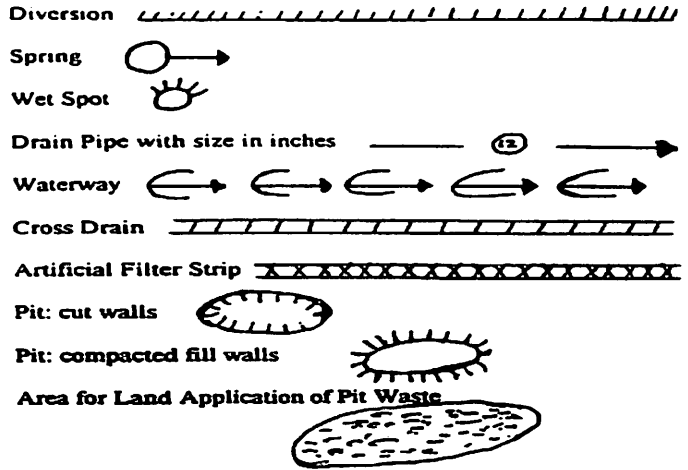
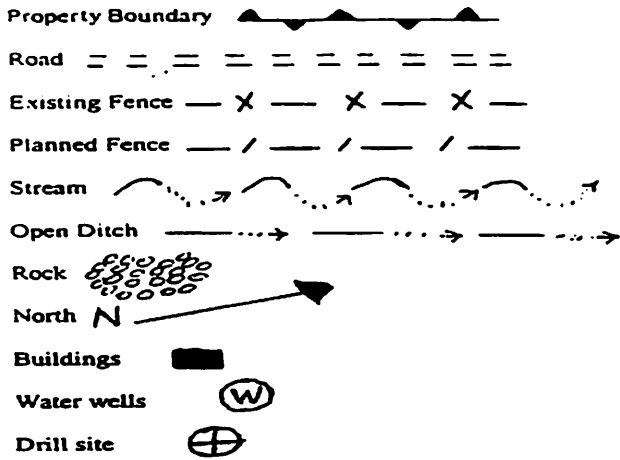
WV Department of Environmental Protection

Official Seal  
Notary Public, State of West Virginia  
Lisa A Duskey  
Community Bank of Parkersburg  
631 Juliana Street  
PO Box 988  
Parkersburg WV 26101  
My Commission Expires August 13, 2022

10/04/2013



LEGEND



Proposed Revegetation Treatment: Acres Disturbed Less than 1 acre Prevegetation pH 6.0  
 Lime 2 Tons/acre or to correct to pH 6.5  
 Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)  
 Mulch 90 Bales Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Contractors Mix	100	Contractors Mix	100

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *David Wilson*

Comments: *provide mulch all out area no less than 2 Yrs per acre, install all ERS control*

Title: *oil gas impinge* Date: *8-28-13* SEP 10 2013

Field Reviewed?  Yes  No

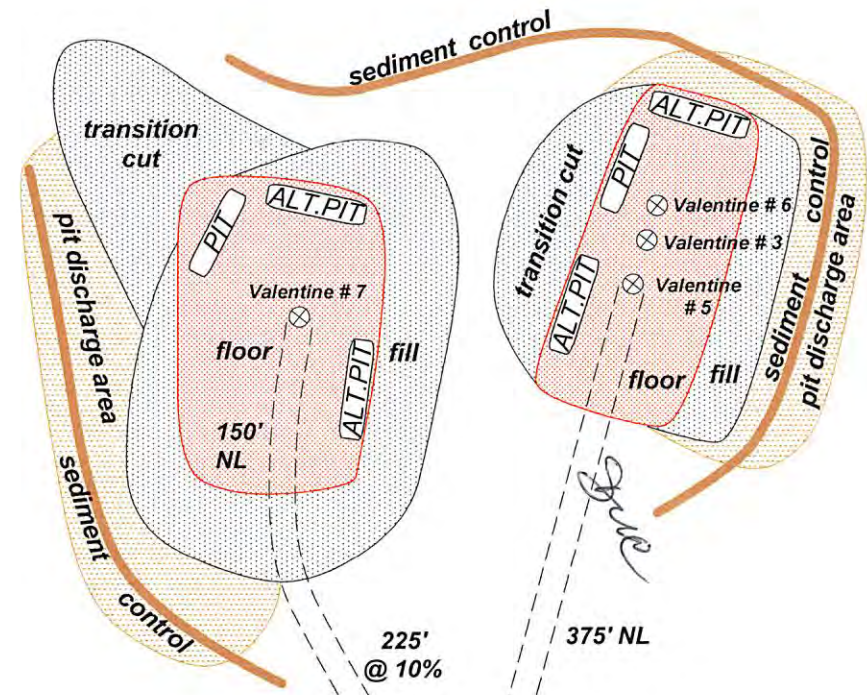
RECEIVED  
Office of Oil & Gas

WV Department of Environment & Conservation

10/04/2013

5900158

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.

225'  
@ 10%

375' NL

shed

house

375'  
@ 10%

175'  
@ 20%

gravel driveway

County Route 18

County Route 18/5  
Beckner Lane

gravel

electric line

Valentine # 1

API 47  
-085-5168

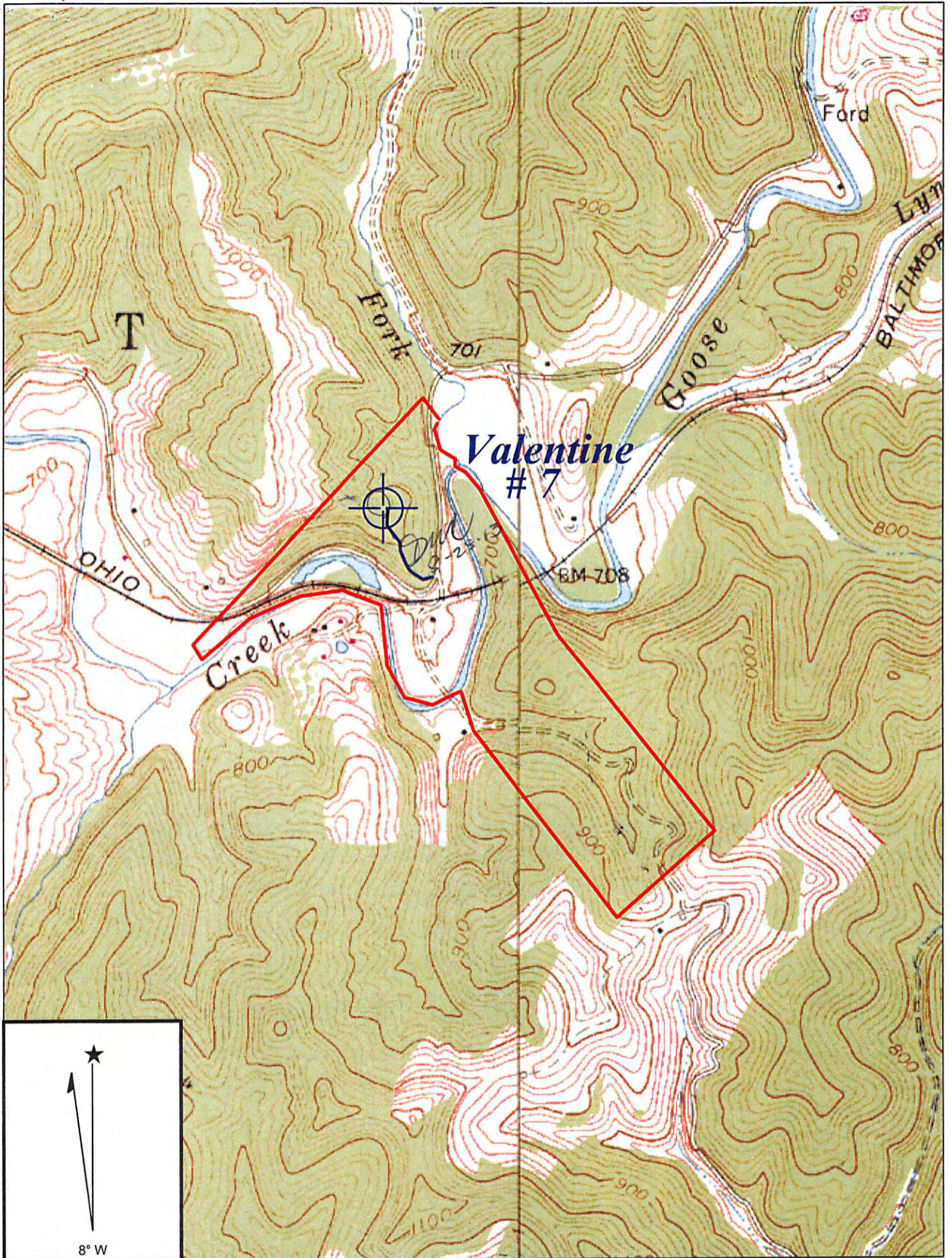
Goose Creek

**Allied Energy, Inc.**  
**Well: Valentine # 7**  
**Florence Valentine 111.5 Acre Lease**  
**Grant District Ritchie County**  
**West Virginia**

RECEIVED  
 DEPARTMENT OF OIL & GAS  
 SEP 10 2013







Copyright (C) 1997, Maptech, Inc.

**PETROLEUM QUADRANGLE**

SCALE 1" = 1000'

**ALLIED ENERGY, INC.**

WELL: VALENTINE 7  
FLORENCE VALENTINE 111.5 ACRE LEASE

GRANT DISTRICT RITCHIE COUNTY WEST VIRGINIA

RECEIVED  
Office of Oil & Gas 10/04/2013

SEP 10 2013

Department of  
Protection



bottom hole 81°15' 23.90" (81.256639)

1890'

top hole 81°15' 11.52" (81.253200)

1110'

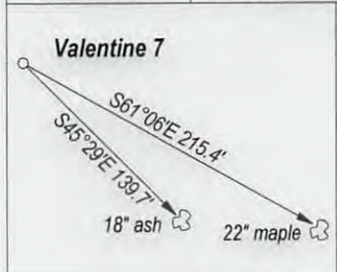
# FLORENCE VALENTINE 111.15 ACRE LEASE

LATITUDE 39°12' 30"

LONGITUDE 81°15' 00"



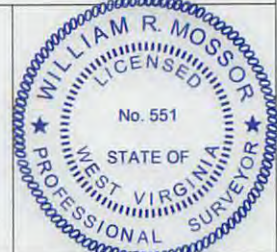
UTM NAD 83 meters top hole N: 4337879 E: 478089	UTM NAD 83 feet top hole N: 14231887 E: 1568534
bottom hole N: 4337736 E: 477851	bottom hole N: 14231418 E: 1568231



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 AUGUST 13TH, 2013  
 OPERATORS WELL NO. VALENTINE 7

API 47 - 085 - 10065  
 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 JACK MCCUNE  
 ADDRESS P. O. BOX 3005 ADDRESS 4695 WV HWY 5  
 SARATOGA, CA 95070 GLENVILLE, WV 26351

10/04/2013

FORM WW - 6

COUNTY NAME PERMIT