



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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Thursday, November 17, 2016
WELL WORK PERMIT
Coal Bed Methane Well / Plugging

NORTHPORT PRODUCTION COMPANY
3501 FRENCH PARK DRIVE, SUITE B

EDMOND, OK 730347290

Re: Permit approval for EPIDOTE 1
47-047-02167-00-00

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: EPIDOTE 1
Farm Name: GOPHER SURVEY COMPANY
U.S. WELL NUMBER: 47-047-02167-00-00
Coal Bed Methane Well / Plugging
Date Issued: 11/17/2016

Promoting a healthy environment.

11/18/2016

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

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OCT 26 2016

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WW-4B
Rev. 2/01

1) Date August 23rd, 20 16
2) Operator's
Well No. EPDOTE-#1
3) API Well No. 47-247 - 22187

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil X / Gas / Liquid injection / Waste disposal
(If "Gas, Production X or Underground storage) Deep / Shallow
- 5) Location: Elevation 1742 Watershed JOHNNYCAKE BRACH OF TUG FORK
District SANDY RIVER County McDOWELL Quadrangle IAEGER
- 6) Well Operator Northport Production Co. 7) Designated Agent John Vaughan
Address 3501 French Park Drive, Suite B Address 3501 French Park Drive, Suite B
Edmond, OK 73034-7290 Edmond, OK 73034-7290
- 8) Oil and Gas Inspector to be notified
Name Brian K. Ferguson
Address 708 Manor Drive
Beckley, WV 25801
- 9) Plugging Contractor
Name Francis Brothers, LLC
Address 622 North Church Street
Ripley, WV 25271

10) Work Order: The work order for the manner of plugging this well is as follows:
 MORU Service Rig. Set up metal pit. Construct flowline from well to ^{TANK} pit. Provide Vac-Truck.
 RIH with Cable tools to verify TD inside 4-1/2" casing. (+ or - 2048 Ft.) 4-1/2" casing is CTS on records. Run CBL confirming cement top in 4-1/2" annulus.
 RIH with 1-1/2" tubing to + or - 2040 Ft. Load 4-1/2" casing to surface with 6% gel fluid
 Spot 100 Ft Cement Plug from 2040 Ft - 1940 Ft. Displace cement to 2040 Ft with 6% gel
 Pull 1-1/2" tubing to 1800 Ft and load hole with 6% Gel. Bottoms Up Circulation (Coal 1749' to 1084')
 Spot 750 Ft. Cement Plug from 1800 Ft. - 1050 Ft. (2 plugs 1800'-1400' & 1400'-1050')
 Displace cement to 1800 Ft and 1400 Ft. with 6% gel. Circulate hole volume with 6% gel from 1000 Ft to surface.
 Pull tubing to ^{300'} 100 Ft circulate cement to surface. Top off 4-1/2 and set ^{4"} monument 4 Ft. above GL unless specified other.

SET 7" MONUMENT.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date _____

OK gwm (NO PIT)

0086

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WR-35

API# 047-047-02167C

State of West Virginia
 DEPARTMENT OF ENERGY
 Division of Oil and Gas
 Well Operator's Report of Well Work

Farm Name: Marko Land Operator Well No. Epidote #1 CBM
 Location: Elevation: 1742.00' Quadrangle: Jaeger 7.5
 District: Sandy River County: McDowell
 Latitude: 1,313 Feet South of 37 Degrees 30 Minutes 0 Seconds
 Longitude: 5,680 Feet West of 81 Degrees 47 Minutes 30 Seconds

Company: Northport Production Company
2601 NW Expressway St. Suite 902-E
Oklahoma City, Oklahoma 73112

Agent: W. T. White
 Inspector: Joe McCourt
 Permit Issued: 6/23/2006
 Well work Commenced: 2/14/2007
 Well work Completed: 2/16/2007
 Verbal Plugging Permission granted on: N/A
 Rotary Cable Tool Rig
 Total Depth (ft): LTD- 2134' DTD- 2135'
 Fresh Water Depths (ft): None
 Salt Water Depths (ft): None
 Is coal being mined in area: No
 Coal Depths: 1084', 1318', 1428', 1476', 1542', 1670', 1749'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"			
12 3/4"	22'	22'	
9 5/8"	661.0'	661.0'	357 cf
7"	1016.0'	1016.0'	226 cf
4 1/2"		2048.0'	349 cf

CS
CTS
CTS

OPEN FLOW DATA:

Producing formation(s): See Next Pay zone depth (ft) See Next
 Gas: Initial open flow No Show MCF/D Oil: Initial open flow 0 Bbl/d
 Final open flow No Show MCF/D Final open flow 0 Bbl/d
 Time of open flow between initial and final tests: 0 Hours
 Static rock pressure 0 psig (surface pressure) after 0 Hours

Second producing formation(s): See Next Pay zone depth (ft) See Next
 Gas: Initial open flow See Next MCF/D Oil: Initial open flow See Next Bbl/d
 Final open flow See Next MCF/D Final open flow See Next Bbl/d
 Time of open flow between initial and final tests: See Next Hours
 Static rock pressure See Next psig (surface pressure) after See Next Hours

NOTE: ON THE BACK OF THIS FORM PUT THE FOLLOWING; 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.)THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

RECEIVED
 Office of Oil & Gas
 OCT 28 2009

FOR: Northport Production Company
 BY: Designated Agent *Tou White*
 DATE: 4-20-07

WV Department of
 Environmental Protection

11/18/2016

WR-35

API# 047-047-02167C

Page 3

Formation Depths taken from Gamma Ray Log

Strata	Depths	Remarks
Overburden	0' -- 5'	
Sandy Shale	5' -- 145'	
Sandstone	145' -- 163'	Open hole not logged for "coals" before setting 9 5/8" and 7" casings - Drillers' did not record any "coals" while drilling hole.
Shale	163' -- 215'	
Sand & Shale	215' -- 298'	
Shale	298' -- 347'	
Sandstone	347' -- 410'	
Shale	410' -- 500'	
Sandstone	500' -- 690'	
Shale	690' -- 790'	
Sandstone	790' -- 807'	
Sandy Shale	807' -- 830'	
Sandstone	830' -- 860'	
Shale	860' -- 898'	
Sandy Shale	898' -- 994'	
Sandstone	994' -- 927'	
Sand & Shale	927' -- 1084'	
Coal	1084' -- 1087'	
Sand & Shale	1087' -- 1130'	
Sandstone	1130' -- 1318'	
Coal	1318' -- 1322'	
Sandy Shale	1322' -- 1428'	
Coal	1428' -- 1430'	
Shale	1430' -- 1476'	
Coal	1476' -- 1486'	
Shale	1486' -- 1542'	
Coal	1542' -- 1548'	
Shale	1548' -- 1560'	
Sandstone	1560' -- 1670'	
Coal	1670' -- 1673'	
Shale	1673' -- 1690'	
Sand & Shale	1690' -- 1749'	
Coal	1749' -- 1752'	
Sand & Shale	1752' -- 1933'	
Shale	1933' -- TD	

Total Depth: 2134'Well Logged by: Weatherford Wireline Services, Inc.RECEIVED
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OCT 26 2016

WV Department of
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WW-4A
Revised 6-07

1) Date: September 16, 2016
2) Operator's Well Number
EPIDOTE-#1 CBM
3) API Well No.: 47 - 047 - 02167

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>William Davis, Jr. and Linda Davis</u>	Name _____
Address <u>150 Beaver Springs Lane</u>	Address _____
<u>Clover, SC 29710</u>	
(b) Name <u>Arthur Thornsberry and Virginia M. Thornsberry</u>	(b) Coal Owner(s) with Declaration
Address <u>HCR 60 Box 180</u>	Name <u>Marco Land Co.</u>
<u>Iaeger, WV 24844</u>	Address <u>P.O. Box 1223</u>
	<u>Iaeger, WV 24844</u>
(c) Name <u>Tug Fork Land Co.</u>	Name _____
Address <u>P.O. Box 542</u>	Address _____
<u>Welch, WV 24801</u>	
6) Inspector <u>Brian Ferguson</u>	(c) Coal Lessee with Declaration
Address <u>708 Manor Drive</u>	Name _____
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>304-550-6265</u>	

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any 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 permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 mailing or delivery to the Chief.

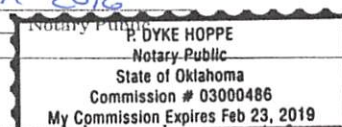
Well Operator Northport Production Company
 By: [Signature]
 Its: Vice President
 Address 3501 Foreach Parks Drive, Ste B
Edmond, OK 73034
 Telephone 405-848-1212

Subscribed and sworn before me this 14th day of September 2016

My Commission Expires 2/23/19

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address, and telephone number, for 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.



11/18/2016

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WW-4A Supplemental Page (#1)
Revised 6-07

1) Date: September 16, 2016
2) Operator's Well Number
EPIDOTE-#1 CBM
3) API Well No.: 47 - 047 - 02167

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Greg Reynolds & Holly Reynolds</u>	Name _____
Address <u>P. O. Box 614</u>	Address _____
<u>Jaeger, WV 24844</u>	
(b) Name <u>Nancy Stacy</u>	(b) Coal Owner(s) with Declaration
Address <u>P.O. Box 170</u>	Name <u>Marco Land Co.</u>
<u>Justice, WV 24851</u>	Address <u>P.O. Box 1223</u>
	<u>Jaeger, WV 24844</u>
(c) Name <u>Judith Lawson & Charles Lawson</u>	Name _____
Address <u>HCR 68 Box 58</u>	Address _____
<u>Jaeger, WV 24844</u>	
6) Inspector <u>Brian Ferguson</u>	(c) Coal Lessee with Declaration
Address <u>708 Manor Drive</u>	Name _____
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>304-550-6265</u>	

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

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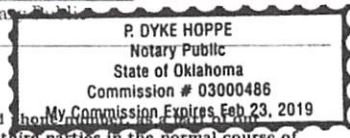
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Well Operator NORTHPOET PRODUCTION COMPANY
 By: [Signature]
 Its: Vice President
 Address 3501 Forest Park Drive, Ste B
Edmond, OK 73034
 Telephone 405-843-1212

Subscribed and sworn before me this 19th day of September 2016

My Commission Expires 2/23/19

Oil and Gas Privacy Notice



The Office of Oil and Gas processes your personal information, such as name, address and phone number, for 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.

11/18/2016

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WW-4A Supplemental Page (#2)
Revised 6-07

1) Date: September 16, 2016
2) Operator's Well Number
EPIDOTE #1 CBM

3) API Well No.: 47 047 02167

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Frank Roberts and Brenda Roberts</u>	Name _____
Address <u>P.O. Box 1051</u>	Address _____
<u>Iaeger, WV 24844</u>	
(b) Name <u>Charles Lawson and Sandi Lawson</u>	(b) Coal Owner(s) with Declaration
Address <u>P.O. Box 745</u>	Name <u>Marco Land Co.</u>
<u>Iaeger, WV 24844</u>	Address <u>P.O. Box 1223</u>
	<u>Iaeger, WV 24844</u>
(c) Name <u>Russell King</u>	Name _____
Address <u>HCR 68 Box 96</u>	Address _____
<u>Iaeger, WV 24844</u>	
6) Inspector <u>Brian Ferguson</u>	(c) Coal Lessee with Declaration
Address <u>708 Manor Drive</u>	Name _____
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>304-550-6265</u>	

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Well Operator Northeast Production Company
 By: [Signature]
 Its: Vice President
 Address 3501 French Park Drive, Ste. B
Edmond, OK 73034
 Telephone 405-848-1217

Subscribed and sworn before me this 19th day of September 2016

My Commission Expires 2/23/19

Oil and Gas Privacy Notice

Notary Public P. DYKE HOPPE
 Notary Public
 State of Oklahoma
 Commission # 03000486
 My Commission Expires Feb 23, 2019

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, for 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.

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WW-9
(5/16)

API Number 47 - 047 - 02167
Operator's Well No. EPIDOTE-#1

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

Operator Name Northport Production Company OP Code NA

Watershed (HUC 10) Johncake Branch of Tug Fork Quadrangle JAEGER 7.5

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: Less than 20 BBLS. Metal Pit to gather any overflow

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 24-105-2-3619 SW#W #19)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: JU Stripping Head With Flow Line to Metal Pit

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Class A Cement & 6% Bentonite Gel

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

Additives to be used in drilling medium? Class A Cement and 6% Gel for Plugging Material Only

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No Cuttings Involved. 6% Gel From Displacement Only

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) No Solids Involved.

-Landfill or offsite name/permit number? NA

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 [Signature]

Company Official (Typed Name) JOHN VAUGHAN

Company Official Title VICE PRESIDENT

Subscribed and sworn before me this 30th day of AUGUST, 2016

My commission expires 2-23-19



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Form WW-9

Operator's Well No. EPIDOTE-#1

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____
 Lime 2 Tons/acre or to correct to pH 6.5
 Fertilizer type 19-19-19
 Fertilizer amount 1/3 Tons lbs/acre
 Mulch 60 Bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		KY 31	40
		Ladino Clover	5
		Annual Rye	15

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: _____

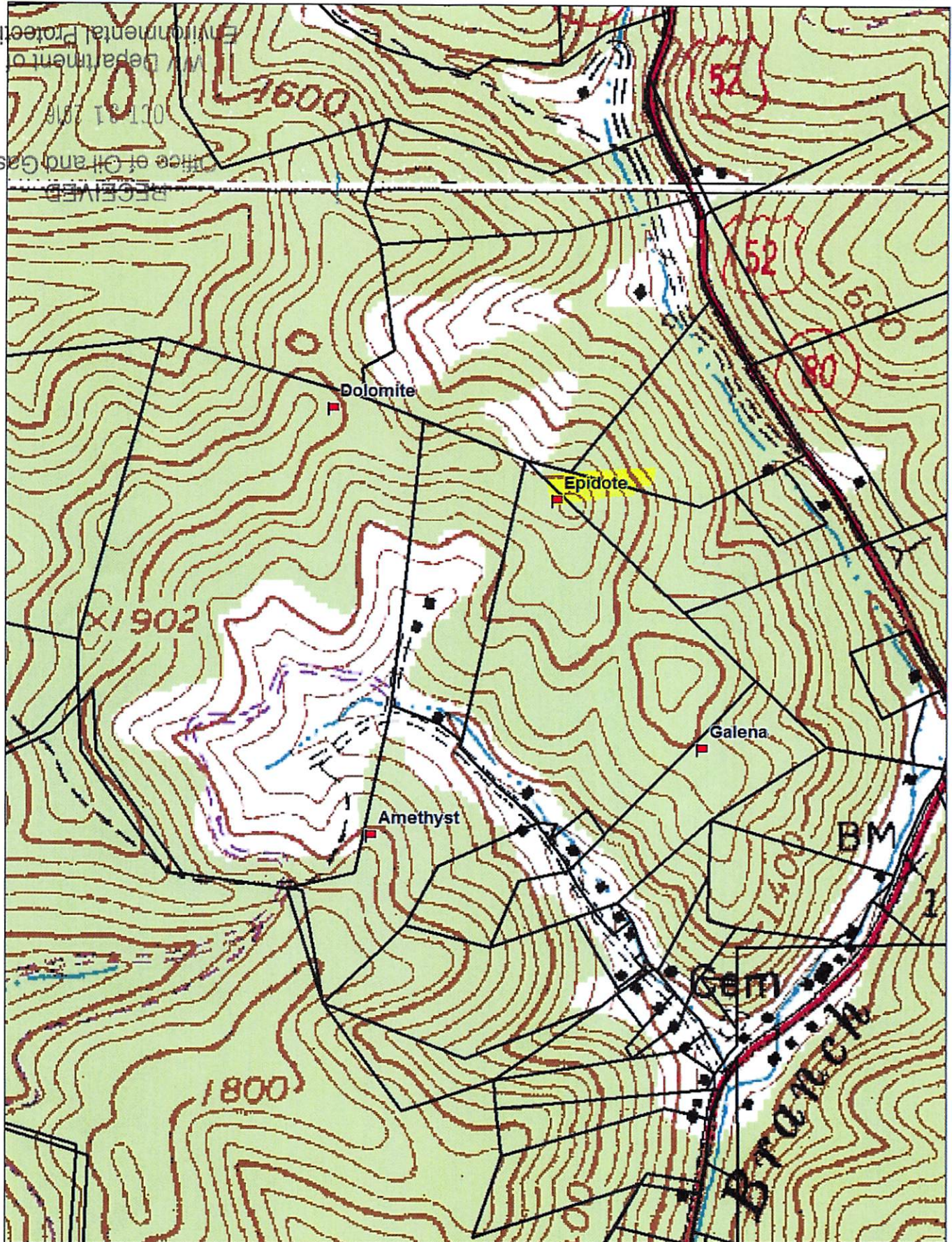
Comments: NA. Hauling any excess fluids to disposal facility.

Reclamation will be to parameters accepted after drilling operations (current conditions) unless WVDEP has additional requirements.

Title: [Signature] Date: 8/30/16

Field Reviewed? () Yes () No

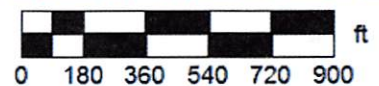
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OCT 11 2016



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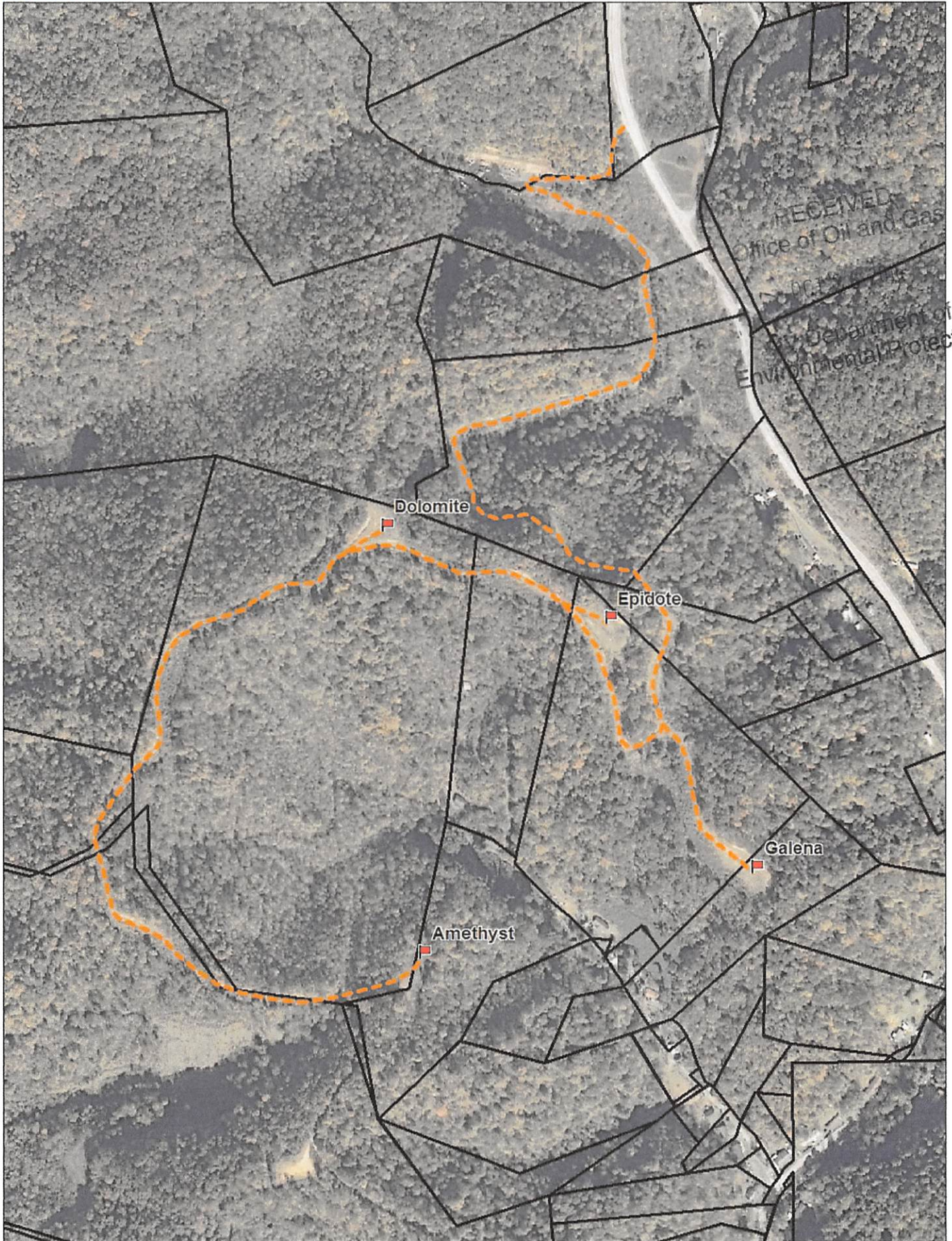
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Data Zoom 15-0

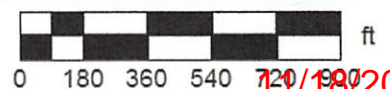
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Data Zoom 15-0

11/18/2016

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-47-02167-C WELL NO.: EP100-C #1

FARM NAME: REYNOLDS

RESPONSIBLE PARTY NAME: Jon Ullom

COUNTY: McDowell DISTRICT: SANDY RIVER

QUADRANGLE: HAEGER

SURFACE OWNER: GREG JOSEPH REYNOLDS - HOLLY DAWN REYNOLDS

ROYALTY OWNER: MARCO LAND CO.

UTM GPS NORTHING: 4150260 mN 1742.33'

UTM GPS EASTING: 428298 mE GPS ELEVATION: (531.06 m)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS ___ : Post Processed Differential ___
Real-Time Differential ___
Mapping Grade GPS X : Post Processed Differential ___
Real-Time Differential X
4. Letter size copy of the topography map showing the well location.

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Office of Oil and Gas

OCT 31 2016

WV Department of
Environmental Protection

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Jon Ullom Signature Operations Div. Title 10/26/16 Date