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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> 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

Wednesday, November 30, 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 DOLOMITE 1 CBM  
47-047-02207-00-00

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: DOLOMITE 1 CBM  
Farm Name: GOPHER SURVEYING COMPANY  
U.S. WELL NUMBER: 47-047-02207-00-00  
Coal Bed Methane Well / Plugging  
Date Issued: 11/30/2016

## 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

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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.

A702207CP

RECEIVED  
Office of Oil and Gas

OCT 26 2016

WV Department of  
Environmental Protection

WW-4B  
Rev. 2/01

1) Date August 23rd, 2016  
2) Operator's  
Well No. DOLOMITE-#1  
3) API Well No. .47-907 - 0287

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 1795 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 pit. Provide Vac-Truck  
 RIH with Cable tools to verify TD inside 4-1/2" casing. (+ or - 2140 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 - 2140 Ft. Load 4-1/2" casing to surface with 6% gel fluid  
 Spot 100 Ft Cement Plug from 2140 Ft - 2040 Ft. Displace cement to 2140 Ft with 6% gel  
 Pull 1-1/2" tubing to 1850 Ft and load hole with 6% Gel. Bottoms Up Circulation (Coal 1209' to 1814')  
 Spot 750 Ft. Cement Plug from 1850 Ft. - 1150 Ft. (2 plugs 1850'-1450' & 1450'-1150')  
 Displace cement to 1800 Ft and 1450 Ft. with 6% gel. Circulate hole volume with 6% gel from 1000 Ft to surface.  
 Pull tubing to 100 Ft circulate cement to surface. Top off 4-1/2 and set 4" monument 4 Ft. above GL unless specified other.  
300 FT 7" MONUMENT.

OK

*JMM*

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

12/02/2016

4702207c P

7 WR-35

API# 047-047-02207C

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. Dolomite #1 CBM  
Location: Elevation: 1795.00' Quadrangle: Jaeger 7.5  
District: Sandy River County: McDowell  
Latitude: 909 Feet South of 37 Degrees 30 Minutes 0 Seconds  
Longitude: 6,640 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: 2/18/2007  
Well work Completed: 2/20/2007  
Verbal Plugging Permission granted on: N/A  
Rotary X Cable Tool      Rig  
Total Depth (ft): LTD- 2202' DTD- 2202'  
Fresh Water Depths (ft): None  
Salt Water Depths (ft): None

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"			
12 3/4"	22'	22'	
9 5/8"	618.0'	618.0'	295 cf
7"	1060.0'	1060.0'	242 cf
4 1/2"		2146.0'	321 cf

CTS  
CTS  
CTS

Is coal being mined in area: No  
Coal Depths: 1209', 1386', 1498', 1607', 1747', 1790', 1814'

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

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

OCT 28 2009  
WV Department of Environmental Protection

7 WR-35

API# 047-047-02207C

Page 3

## Formation Depths taken from Gamma Ray Log

Strata	Depths	Remarks
Overburden	0' -- 5'	
Sandy Shale	5' -- 40'	
Sandstone	40' -- 67'	
Shale	67' -- 156'	Open hole not logged for "coals" before
Sand & Shale	156' -- 382'	setting 9 5/8" and 7" casings - Drillers' did not record
Shale	382' -- 432'	any "coals" while drilling hole.
Sandstone	432' -- 475'	
Shale	475' -- 570'	
Sandstone	570' -- 610'	
Shale	610' -- 635'	
Sandstone	635' -- 655'	
Sandy Shale	655' -- 736'	
Sandstone	736' -- 774'	
Shale	774' -- 833'	
Sandy Shale	833' -- 883'	
Sandstone	883' -- 927'	
Sand & Shale	927' -- 1209'	
Coal	1209' -- 1214'	
Sand & Shale	1214' -- 1308'	
Sandstone	1308' -- 1386'	
Coal	1386' -- 1389'	
Sandy Shale	1389' -- 1498'	
Coal	1498' -- 1510'	
Shale	1510' -- 1607'	
Coal	1607' -- 1612'	
Shale	1612' -- 1630'	
Sandstone	1630' -- 1747'	
Coal	1747' -- 1750'	
Shale	1750' -- 1762'	
Sandstone	1762' -- 1790'	
Coal	1790' -- 1793'	
Shale	1793' -- 1814'	
Coal	1814' -- 1816'	
Sandstone	1816' -- 1940'	
Sand & Shale	1940' -- 1995'	
Shale	1995' -- TD	

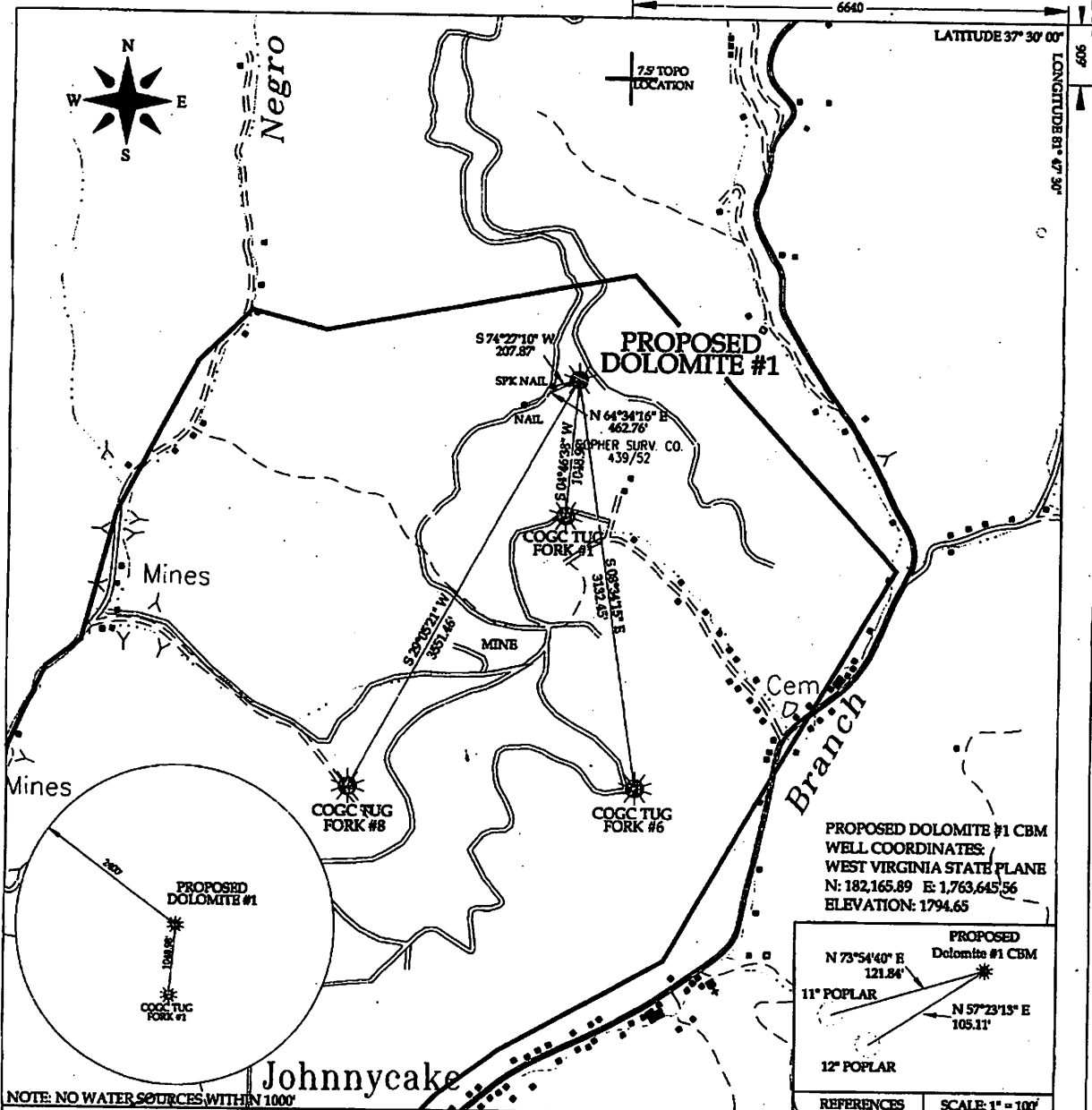
Total Depth: 2202'Well Logged by: Weatherford Wireline Services, Inc.RECEIVED  
Office of Oil & Gas

OCT 28 2009

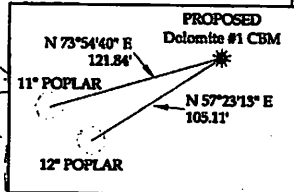
WV Department of  
Environmental Protection

12/02/2016

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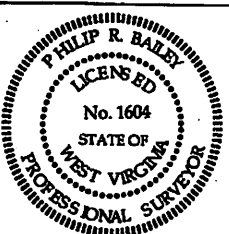


PROPOSED DOLOMITE #1 CBM WELL COORDINATES WEST VIRGINIA STATE PLANE  
 N: 182,165.89 E: 1,763,645.56  
 ELEVATION: 1794.65



NOTE: NO WATER SOURCES WITHIN 1000'

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 DIVISION OF ENVIRONMENTAL PROTECTION.  
 (SIGNED) Philip Bailey  
 R.P.E. \_\_\_\_\_ R.P.S. X



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPO MAPS  
 DATE December 15, 20 06  
 OPERATOR'S WELL NO. DOLOMITE #1 CBM  
 API WELL No. 47 - 047 - 02207c  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1:113,517  
 FILE NO.: LSL-G512-05  
 SCALE: 1" = 1000'  
 PROVEN SOURCE OF ELEVATION: \_\_\_\_\_  
 TRIG LEVELING FROM KNOWN GPS MONUMENT: \_\_\_\_\_ DRAWING NO. DOLOMITE1plat.dwg

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

WELL TYPE: OIL \_\_\_\_\_ GAS X-CBM LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION \_\_\_\_\_ X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1794.67 WATER SHED Johnnyeake Branch of the Tug Fork River  
 DISTRICT SANDY RIVER COUNTY McDOWELL  
 QUADRANGLE IAEGER  
 SURFACE OWNER Gopher Surveying Co., Inc. ACREAGE 12±  
 OIL & GAS ROYALTY OWNER Marco Land Co. LEASE ACREAGE 1200±  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
 FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION NEW RIVER & POCAHONTAS COAL ESTIMATED DEPTH 2175'  
 WELL OPERATOR NORTHPORT PRODUCTION COMPANY DESIGNATED AGENT TOM WHITE  
 ADDRESS 2601 NW EXPRESSWAY, SUITE 902-B ADDRESS: 1 MEADOW RD  
OKLAHOMA CITY, OK 73112 DUNBAR, WV 25064

12/02/2016

RECEIVED  
Office of Oil and Gas

NOV 22 2016

WV Department of  
Environmental Protection

WW-1A  
Revised 6-07

1) Date: September 16, 2016  
2) Operator's Well Number  
DOLOMITE #1 CBM  
3) API Well No.: 47 047 02207

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 Thornberry and Virginia M. Thornberry</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>HCR 60 Box 180</u> ✓	Name <u>Marco Land Co.</u> ✓
<u>Jaeger, WV 24844</u>	Address <u>P.O. Box 1223</u> ✓
(c) Name <u>Tug Fork Land Co.</u> ✓	<u>Jaeger, WV 24844</u>
Address <u>P.O. Box 549</u> ✓	Name _____
<u>Welch, WV 24601</u>	Address _____
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-1B, 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 reverse side. However, you are not required to take any action at all.

Take note 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 Northeast Production Company  
 By: [Signature]  
 Its: Vice President  
 Address 3501 French Park Dr, Ste B  
Edmond, OK 73034  
 Telephone 405-848-1212

Subscribed and sworn before me this 19<sup>th</sup> day of September 2016

My Commission Expires 2/23/19

Notary \_\_\_\_\_

Oil and Gas Privacy Notice

**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 phone numbers, in the normal course of 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).

4702207c P

RECEIVED  
Office of Oil and Gas

NOV 22 2016

WV Department of  
Environmental Protection

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

1) Date: September 16, 2016  
2) Operator's Well Number  
DOLOMITE-#1 CBM  
3) API Well No.: 47 - 047 - 02207

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 &amp; 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 &amp; 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:

- (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 reverse 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 Northwest Production Company  
 By: [Signature]  
 Its: Vice President  
 Address 3501 French Park Drive, Ste B  
Edmond, OK 73034  
 Telephone 405-848-1212

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

My Commission Expires 2/23/19

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

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](mailto:depprivacyofficer@wv.gov).

12/02/2016



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

1) Date: September 16, 2016  
2) Operator's Well Number  
DOLOMITE #1 CBM  
3) API Well No.: 47 - 047 - 02207

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:	<input checked="" type="checkbox"/>	5) (a) Coal Operator	<input type="checkbox"/>
(a) Name	<u>Frank Roberts and Brenda Roberts</u>	Name	_____
Address	<u>P.O. Box 1051</u>	Address	_____
	<u>Jaeger, WV 24844</u>		_____
(b) Name	<u>Charles Lawson III</u>	(b) Coal Owner(s) with Declaration	<input checked="" type="checkbox"/>
Address	<u>P.O. Box 345</u>	Name	<u>Marco Land Co.</u>
	<u>Jaeger, WV 24844</u>	Address	<u>P.O. Box 1223</u>
			<u>Jaeger, WV 24844</u>
(c) Name	<u>Russell King</u>	Name	_____
Address	<u>HCR 68 Box 96</u>	Address	_____
	<u>Jaeger, WV 24844</u>		_____
6) Inspector	<u>Brian Ferguson</u>	(c) Coal Lessee with Declaration	<input type="checkbox"/>
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 reverse 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 NEATHEROT PRODUCTION COMPANY  
 By: [Signature]  
 Its: Vice President  
 Address: 3501 Fench Park Drive, Sta B  
Edmond, OK 73034  
 Telephone: 405-248-1317

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 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](mailto:depprivacyofficer@wv.gov).

4702207CP

WW-9  
(5/16)

API Number 47 - 047 - 02207  
Operator's Well No. DOLOMITE-#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) Johnnycake 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-CPP)
- Underground Injection ( UIC Permit Number 34-105-2-3619 SWW #19 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop systems 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

Permitter 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]

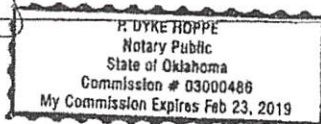
Company Official (Typed Name) JOHN VAUGHAN

Company Official Title VICE PRESIDENT

Subscribed and sworn before me this 30<sup>th</sup> day of AUGUST, 2016

[Signature] Notary Public

My commission expires \_\_\_\_\_



12/02/2016

Form WW-9

Operator's Well No. DOLOMITE-#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: 8/30/11

Field Reviewed?  Yes  No



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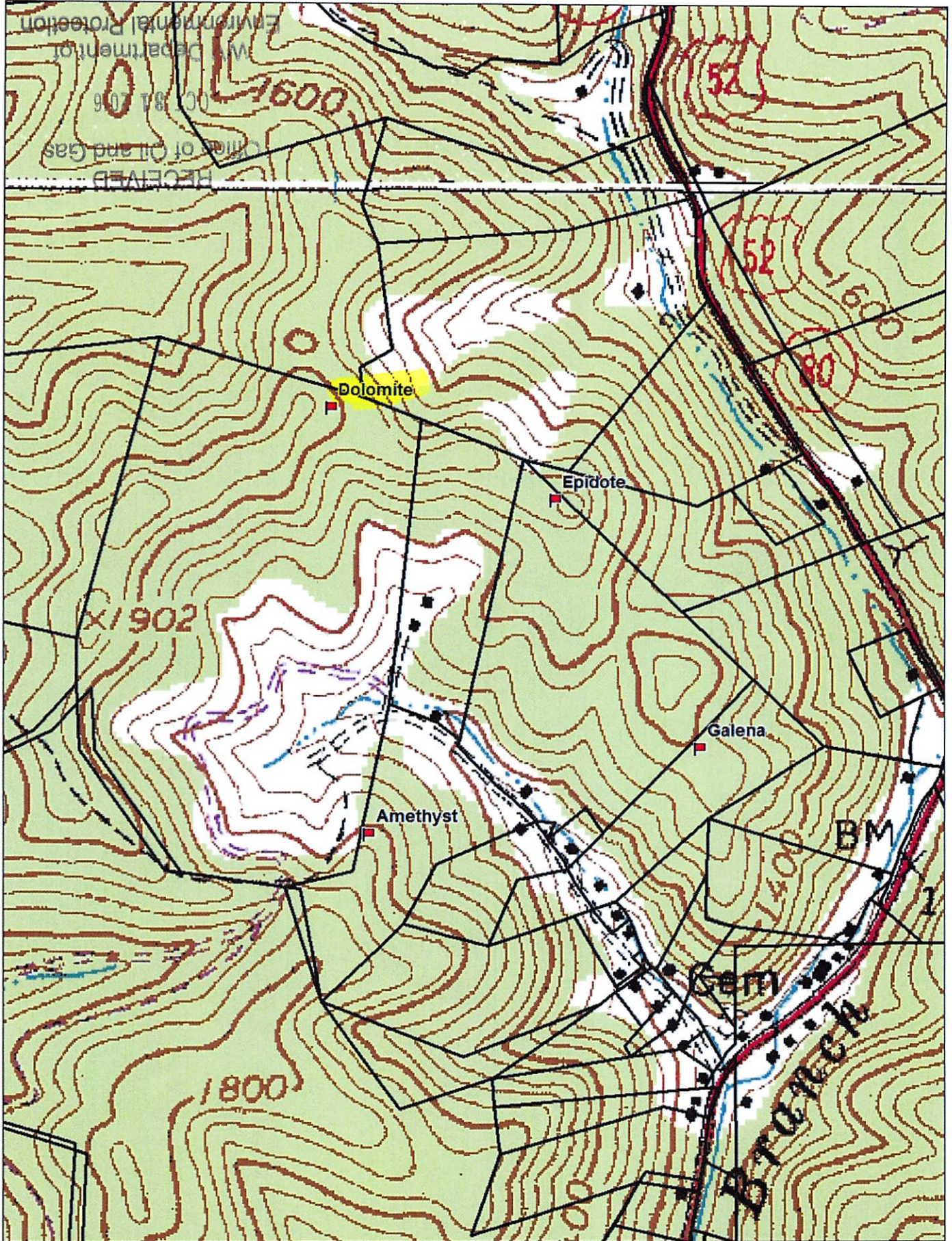
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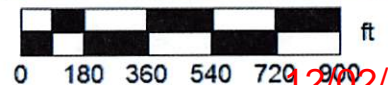
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4702207CP

NO EARTHEN PIT  
NO LAND APPLICATION

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 047 - 02207  
Operator's Well No. DOLOMITE-#1 CBM

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

Operator Name: NORTHPORT PRODUCTION COMPANY

Watershed (HUC 10): Johnnycake Branch of Tug Fork

Quad: IAEGER 7.5

Farm Name: MARCO LAND

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

Well will be plugged with a J U Stripping Head and Element on 4-1/2" production casing. A flow line will be connected from J U well head to metal pit for collection of any overflow gel during displacement of cement plugs.

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

Per above procedures all overflow gel will be collected in metal pit. No hazardous material is involved in this plugging operation. No solids are present. A dike will be constructed around metal pit for secondary containment and a vacuum truck will be on-site to collect all fluids returned to surface from the metal pit. Fluid will be hauled to disposal facility listed.

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

Collected fluids from the plugging procedure will be hauled to disposal facility.

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

Fluid recovered from well (6% gel) during spotting / displacement of cement plugs will be returned to metal pit. Well will be plugged with closed loop system - J U well head with element, flow line from well head to metal pit. Earthen dike will be constructed around metal pit for secondary containment. Vacuum truck will be on site for any spillage and for hauling excess fluid to disposal facility. No hazardous materials will be used in the plugging process.

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

12/02/2016

No EARTHEN PIT  
No LAMP APPLICATION

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 047 - 02207  
Operator's Well No. DOLOMITE-#1 CBM

We have no current ground water data for this well site. This well was drilled in 2007 and never completed and consequently has never produced. There is no surface equipment on site, only the visible wellhead with 4X2 swedge and 2" gate valve.

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

Any waste material will be hauled to disposal facility. 6% gel water is the only anticipated waste produced from this plugging operation.

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.

All chemicals - Cement and Bentonite Gel will be sitting on secondary containment / plastic. All plugs will be set on closed loop system with any returns flowing to metal pit. Any spillage of fluid to be cleaned up with Vac-Truck on site and hauled to disposal facility.

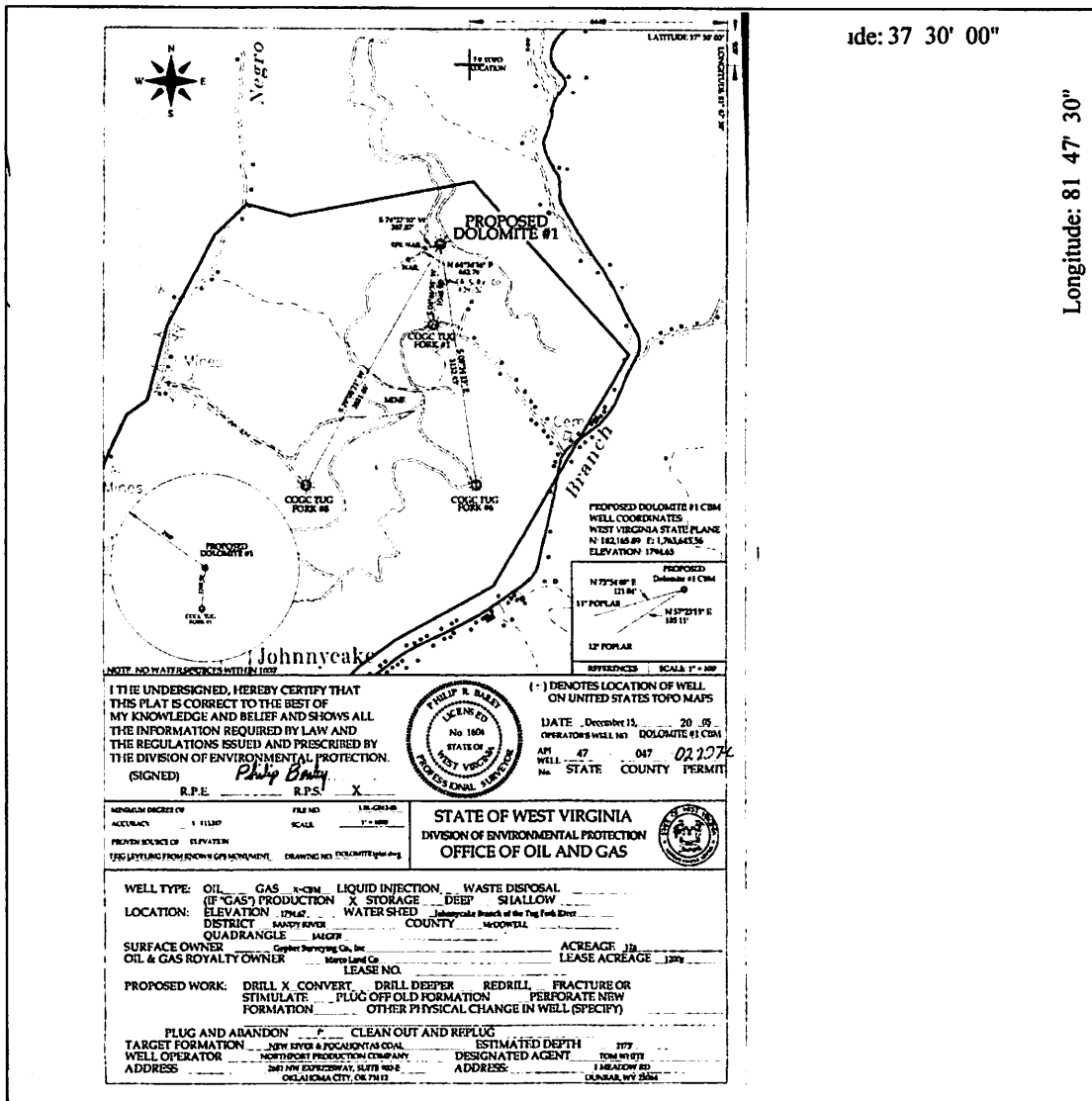
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Plugging operations for this well should involve 2 days. Connections from well to metal pit will be checked for tightness and cement and bentonite gel will be further contained on plastic.

Signature: 

Date: 8/30/16





Latitude: 37 30' 00"

Longitude: 81 47' 30"

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) Philip Bailey  
R.P.E. \_\_\_\_\_ L.L.S. X

DATE: December 13, 20 05  
OPERATOR'S WELL NO: DOLOMITE #1 CBM  
WELL NO: 47 047 02207  
STATE COUNTY PERMIT

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

WELL TYPE: OIL GAS X-CHM LIQUID INJECTION WASTE DISPOSAL  
(IF GAS) PRODUCTION X STORAGE DEEP SHALLOW  
LOCATION: ELEVATION: 1794.2 WATER SHED: Johnnycake Branch of the Tug Fork River  
DISTRICT: SANDY RIVER COUNTY: McDOWELL  
QUADRANGLE: laeger

SURFACE OWNER: Gruber Parsonage Co, Inc ACREAGE: 328  
OIL & GAS ROYALTY OWNER: Marco Land Co LEASE ACREAGE: 1200

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG  
TARGET FORMATION: NEW RIVER & POCAHONTAS COAL ESTIMATED DEPTH: 2272  
WELL OPERATOR: NORTHPORT PRODUCTION COMPANY DESIGNATED AGENT: JOHN VAUGHAN  
ADDRESS: 501 FRENCH PARK DRIVE, SUITE B, EDMOND, OK 73034 ADDRESS: 501 FRENCH PARK DRIVE, SUITE B, EDMOND, OK 73034

<p>FILE #: <u>LBL-G512-05</u></p> <p>DRAWING #: <u>DOLOMITE1 plat.dwg</u></p> <p>SCALE: <u>1" = 1000 Ft.</u></p> <p>MINIMUM DEGREE OF ACCURACY: <u>1:113,317</u></p> <p>PROVEN SOURCE OF ELEVATION: <u>Trig Leveling From</u></p>	<p>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 ENVIRONMENTAL PROTECTION.</p> <p>Signed: _____</p> <p>R.P.E.: _____ L.L.S.: _____</p>	<p>PLACE SEAL HERE</p>
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25304</p>		
<p>Well Type: <input type="checkbox"/> Oil <input type="checkbox"/> Waste Disposal <input type="checkbox"/> Production <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid Injection <input type="checkbox"/> Storage <input type="checkbox"/> Shallow</p>		
<p>WATERSHED: <u>Johnnycake Branch</u> ELEVATION: <u>1794.67</u></p> <p>COUNTY/DISTRICT: <u>McDowell / Sandy River</u> QUADRANGLE: <u>laeger</u></p> <p>SURFACE OWNER: <u>William Davis, Jr. &amp; Linda Davis</u> ACREAGE: <u>90</u></p> <p>OIL &amp; GAS ROYALTY OWNER: <u>Marco Land Co.</u> ACREAGE: <u>+ or - 1200</u></p> <p>DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG &amp; ABANDON <input checked="" type="checkbox"/> CLEAN OUT &amp; REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY): _____</p> <p>TARGET FORMATION: <u>New River and Pocahontas Coal</u> ESTIMATED DEPTH: <u>2202</u></p> <p>WELL OPERATOR: <u>Northport Production Co.</u> DESIGNATED AGENT: <u>John Vaughan</u> Address: <u>501 French Park Drive, Suite B</u> Address: <u>501 French Park Drive, Suite B</u> City: <u>Edmond</u> State: <u>OK</u> Zip Code: <u>73034</u> City: <u>Edmond</u> State: <u>OK</u> Zip Code: <u>73034</u></p>		

12/02/2016

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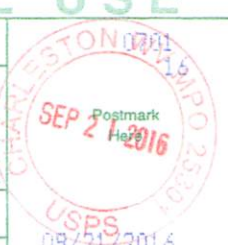
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