west virginia department of environmental protection

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

June 16, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3301560, issued to CONSOL GAS COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 8041
Farm Name: LANHAM, A.
API Well Number: 47-3301560
Permit Type: Plugging
Date Issued: 06/16/2016

Promoting a healthy environment.

3301560P

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.

3301560P

WW-4B
Rev. 2/01

1) Date _____, 2016
2) Operator's
Well No. Lanham #8041
3) API Well No. 47- 033 - 01560

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 ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1161.05 Watershed Middle West Fork Creek
District Union - 03 County Harrison Quadrangle West Milford - 669

6) Well Operator Consol Gas Company
Address 1000 Consol Energy Drive
Canonsburg, PA 15317

7) Designated Agent Anthony Kendziora
Address 1 Dominion Drive
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201

9) Plugging Contractor
Name Contractor Services Inc. (CSI)
Address 929 Charleston Rd.
Spencer, WV 25776

10) Work Order: The work order for the manner of plugging this well is as follows:

Please see attached pages.

RECEIVED
Office of Oil and Gas
MAY 18 2016
WV Department of
Environmental Protection

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

Work order approved by inspector [signature] Date 5/12/16

3301560P

Plugging Work Order for Permit 47-033-01560

CNX Gas – #8041

TD ≈ 2310

1. The wellbore will be cleaned out to the total depth. All plugging shall comply with WV Code Chapter 22 Article 6.
2. Verify 2" tubing TD (~2376'), if necessary, pump ~50 bbls 6% gel to control well.
3. Unseat packer @ 2310' and TOH, if unable to unseat, cut 2" above packer (~2300').
4. TOH 2" production tubing.
5. TIH w/ 2-3/8" PH-6 work string to TD. Gel hole with 6% gel.
6. Pump bottom cement plug from TD to ~1375'.
7. TOH w/ 2-3/8" PH-6 work string. Wait on cement.
8. Attempt to pull 5-3/16" (1375'), if unable to pull
9. Verify TOC via bond log and determine free point of 5-3/16"
10. Free point & split shot collar (~1370'). TOH w/ 5-3/16".
11. Attempt to pull 6-5/8" (~1345') If unable to pull.
12. Bond log 6-5/8" to determine free point.
13. Free point and split shot collar (~1340') TOOH w/6-5/8". TRY TO PULL 8 1/4".
14. Perforate 8-1/4" w/4 shots every 100' from 930' to surface.
15. TIH w/2-3/8" PH-6 work string and tag TOC (~1375')
16. Cement to surface in three stages.
17. TOOH w/work string and top off with cement.
18. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-033-01560
19. The disturbed areas shall be graded, seeded and mulched as required. Site to be reclaimed as soon as possible.

<u>Note-Records indicate bailer was LIH at 2060'</u>.

Work Order approved by Inspector SDW Date: 5/12/16

Note: All cement will be Class A. All spacers between plugs will be 6% gel.

3301560P

Well No. [illegible] ...ELLEN GAS COMPANY July 31 1913

Harrison District A. J. Lehman Farm

Commenced 7-10-1913 REPAIRS N. S. 15 E. 10 W. Completed 7-30-1913

55

CASING AND TUBING RECORD

Size	Amount in Well Before Repairs	Amount in Well After Repairs	Amount Pulled	Amount Put in Well	Amount Left in Well	Disposition of Amount Pulled
8 5/4	930				930	
6 5/8	1345				1345	
5 3/16		1966		1966	1966	
2		2310		2310	2310	

WELL RECORD OCT 21 1913 C.A.K.
LEASE RECORD
LEASE BOOK
WELL MAP AUG 2 1913 J.C.L.
LOCATION MAP SEP 2 1913 H.H.S.
LOCATION BOOK
CONTRACTORS PLAT
CONTRACTOR
TITLE

AUG 30 1913 H.H.S.

VOLUME AND PRESSURE TEST

Before Repairs: Opening	Liquid Used	Reading	Pressure: Rock or Minute	Pounds	After Repair: Size Opening	Liquid Used	Reading	Pressure: Rock or Minute	Pounds
None taken					2"		3 lbs	Rock	510

Names of Drillers	Time (Days)	Names of Tool Dressers	Time (Days)
J. E. Coleman	19	J. E. Jamison	19
R. B. Kestler	16	W. J. McCay	19

If well is drilled deeper, insert below the record of deeper drilling

Formation	Top	Bottom	Formation	Top	Bottom
Well drilled down from 30 for sand					
Started drilling at 1964					
Fifth Stray	2064	2090			
Gordon	2115	2131			
Fourth ✓	2191	2207			
Gas		2192			
Fifth ✓	2260	2284			
Gas	2263	X 2270			
Total Depth		2310			

SHOOTING RECORD

Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot: Reading	Liquid	Opening	Test After Shot: Reading	Liquid	Opening	Test taken after shot No. Hours	By Whom Shot

PACKER RECORD

Kind	Amount Anchor	Amount Above Anchor	
8 OH		1966	first packer set at
6 anchor	189 1/12	2120 11/12	" " "

Tubing Record if Well Never Previously Tubed

Tubed	Size	Amount Put in Well
7-13	2	2310

Rem: Well was drilled down by H.M.C. Drg. String #31. Pulled max of pull 8 5/4" Casg.

RECEIVED Office of Oil and Gas MAY 18 2016 WV Department of Environmental Protection

NOTE.—Whenever a well is shot, tubed, drilled deeper or in any manner repaired, fill out this report so far as it relates to work done and properly.

Chas. Caveman
Foreman.

033-1560

33015600P

RESERVE GAS COMPANY.

LOCATION FOR WELL No. 246 8041

Harrison DISTRICT

On [illegible] Farm, on waters of Sycamore Creek

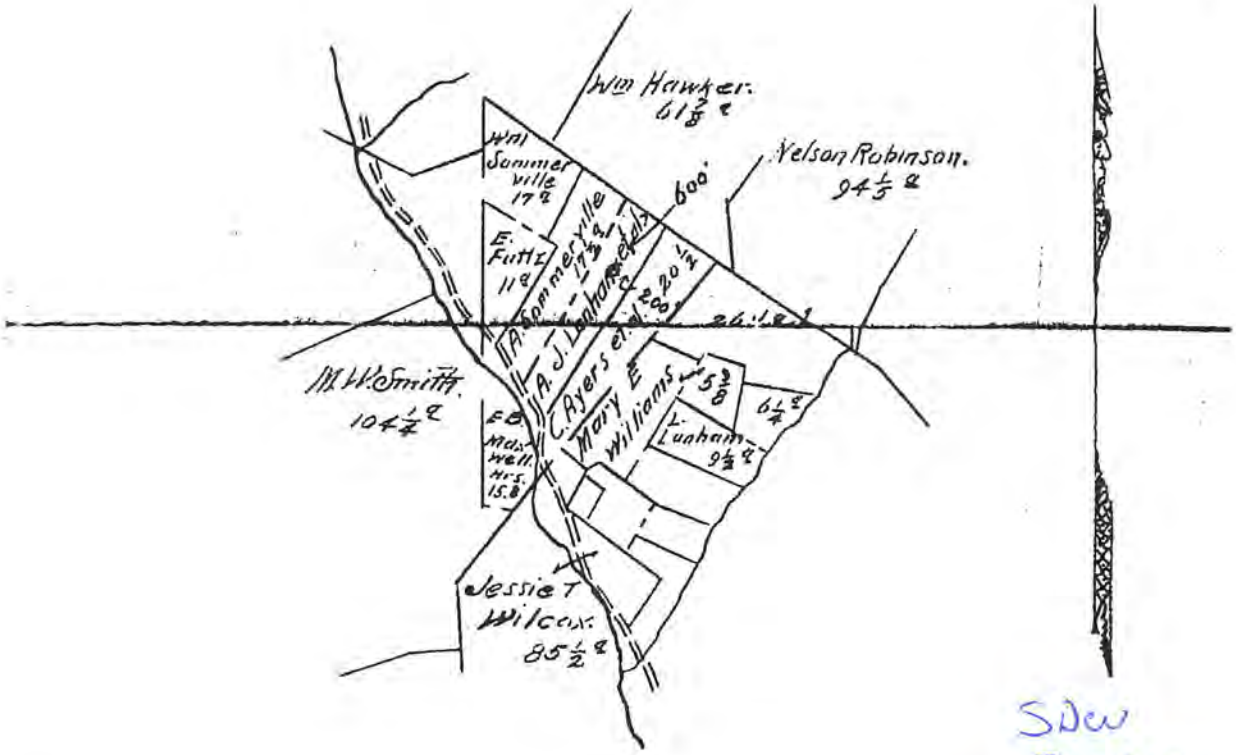
[illegible] District, Harrison County, West Virginia.

Lease No. 222 Acres 15 N. S. 15 E. 10 W.

Scale, one inch equals 80 Poles Sent to W.Y.C. 2-11-1910

Location to be 600 feet from Wm Hawker farm line and 200 feet from C Ayers et al.

033-1560



SDW 5/12/16

ENTERED LINE MAP 2/23 [illegible] BY [illegible]

ENTERED WELL BOOK GAK 3 31 '10 LEASE RECORD LEASE DOCKET WALL MAP 2/23/10 JEK WORKING MAP LOCATION BOOK

RESERVE None.

SPECIAL INSTRUCTIONS Cement 10" casing Complete well on or before June 7 1910

Location made 2-16-10 by A H Bradley As per plat, ~~except as noted~~. On field map.

2-19-10 Returned to Pittsburgh FLR 1

Location changed on account of

Authorized by Date 1 Signed

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3301560P

WW-4A
Revised 6-07

1) Date:
2) Operator's Well Number
Lanham #8041

3) API Well No.: 47 - 033 - 01560

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: James L. & Janet E. Robinson
Address: 2374 Sycamore Rd.
Clarksburg, WV 26301

(b) Name
Address

(c) Name
Address

6) Inspector: Sam Ward
Address: PO Box 2327
Buckhannon, WV 26201
Telephone: 304-389-7583

5) (a) Coal Operator
Name: n/a
Address

(b) Coal Owner(s) with Declaration
Name: n/a
Address

Name
Address

(c) Coal Lessee with Declaration
Name: n/a
Address

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: Consol Gas Company
By: Craig Neal
Its: VP Operations E&P
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Telephone: 1-724-485-3116

RECEIVED
Office of Oil & Gas
MAY 2 2016
WV Department of
Environmental Protection

Subscribed and sworn before me this 25th day of April 2016
Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My Commission Expires February 23, 2019

Oil and Gas Privacy Notice

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 depprivacyoffier@wv.gov.

3301560P

WW-9
(2/15)

API Number 47 - 033 - 01560
Operator's Well No. Lanham #8041

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) Middle West Fork Creek Quadrangle West Milford

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: N/A

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes: Any well effluent must be collected & disposed of properly. TPW

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ 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: N/A SDW 5/12/16

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 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 Craig Neal

Company Official (Typed Name) Craig Neal

Company Official Title VP Operations E&P, Consol Gas Company

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MAY 18 2016
WV Department of Environmental Protection

Subscribed and sworn before me this 25th day of April, 20 16

Lori L Walker Notary Public

My commission expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Greene County
My Commission Expires February 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

3301560P

Form WW-9

Operator's Well No. Lanham #8041

Consol Gas Company

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH

Lime 2-3 Tons/acre or to correct to pH

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

Title: OOG Inspector Date: 5/6/16

Field Reviewed? ( ) Yes (X) No

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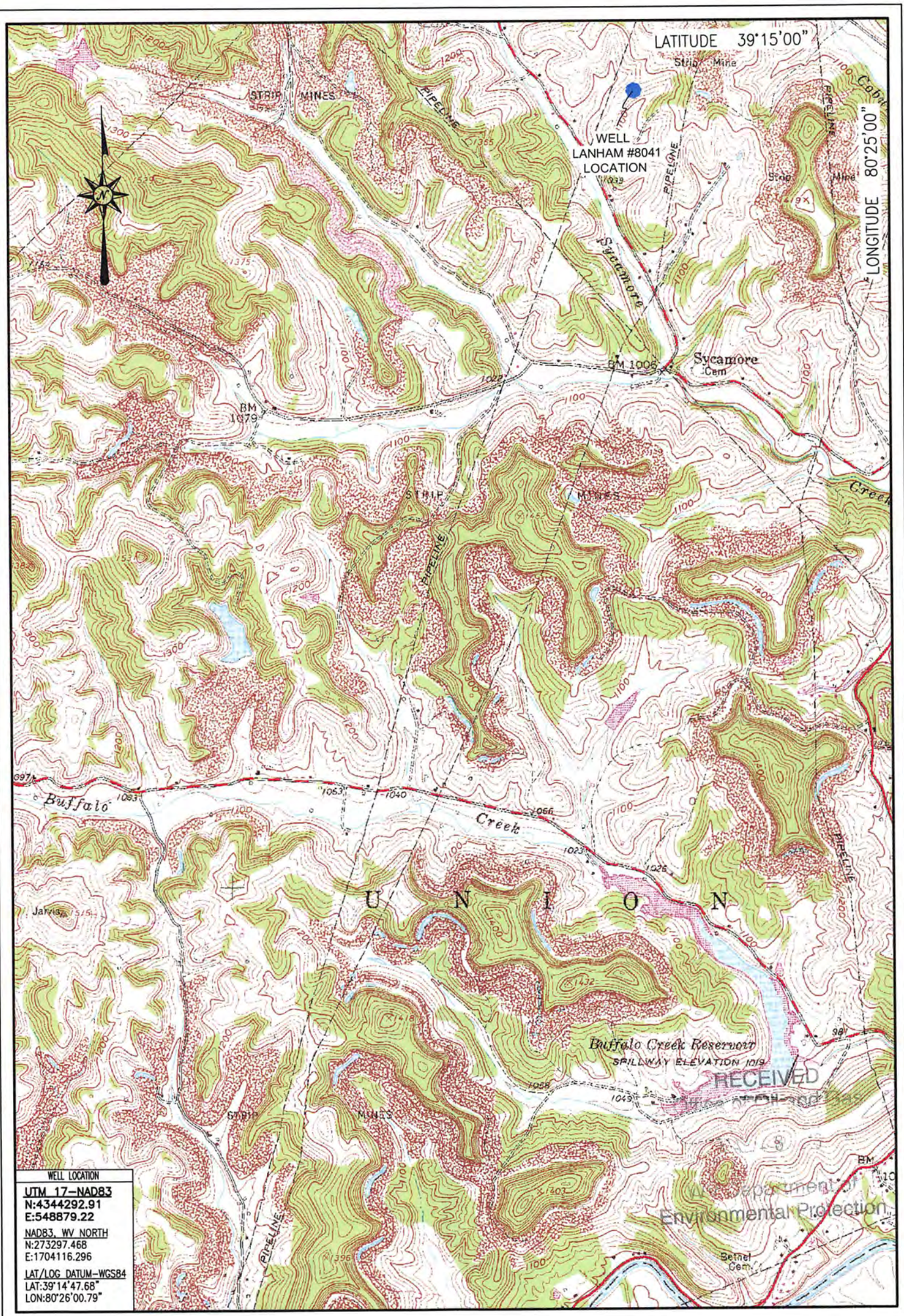
Office of Oil and Gas
MAY 18 2016
WV Department of
Environmental Protection

33015607



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Office of Oil and Gas
WV Department of
Environmental Protection

LOCATION MAP
MARCH 24, 2016

Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

LANHAM #8041
WEST MILFORD QUADRANGLE
WEST VIRGINIA

SCALE 1" = 2000'

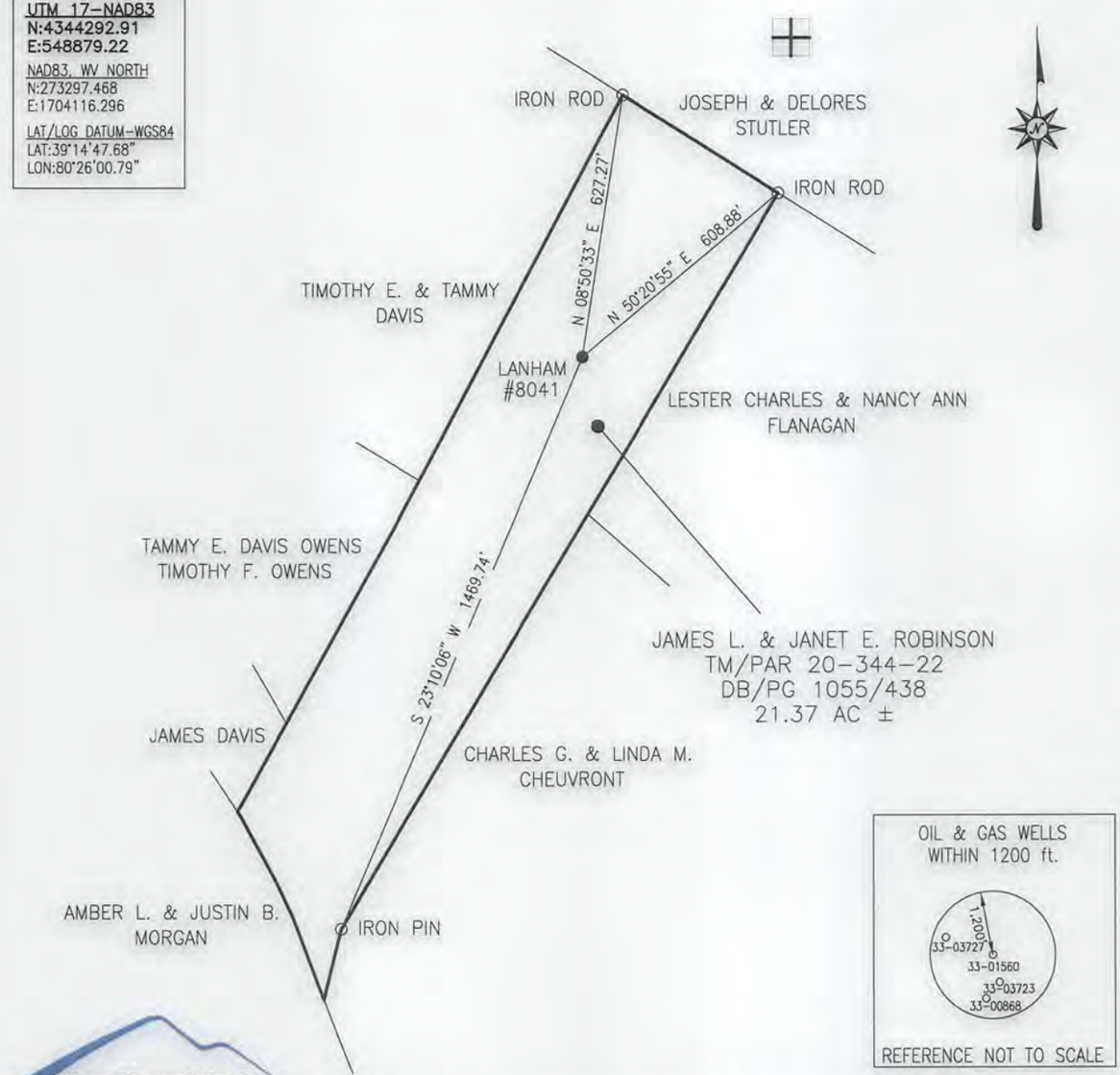
0' 2000' 4000' 6000'

BLUE MOUNTAIN ENGINEERING

Well is located on topo map 1,247 feet south of Latitude: 39° 15' 00"

Well is located on topo map 4,782 feet west of Longitude: 80° 25' 00"

WELL LOCATION
UTM 17-NAD83
N:4344292.91
E:548879.22
NAD83, WV NORTH
N:273297.468
E:1704116.296
LAT/LOG DATUM-WGS84
LAT:39°14'47.68"
LON:80°26'00.79"



Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

NOTE:
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE #: LANHAM #8041
DRAWING #: LANHAM #8041
SCALE: 1" = 400'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.

Signed: [signature]

R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX
LICENSED
No. 2000
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: MARCH 24, 2016
OPERATOR'S WELL #: LANHAM #8041
API WELL #: 47 (STATE) 033 (COUNTY) 01560 (PERMIT) P

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: MIDDLE WEST FORK CREEK ELEVATION: 1161.05'
COUNTY/DISTRICT: HARRISON/UNION QUADRANGLE: WEST MILFORD, WV 7.5'
SURFACE OWNER: JAMES L. & JANET E. ROBINSON ACREAGE: 21.37±
OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____

DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: FIFTH ESTIMATED DEPTH: 2,310'±

WELL OPERATOR CONSOL GAS COMPANY
Address 1000 CONSOL ENERGY DRIVE
City CANONSBURG State PA Zip Code 15317

DESIGNATED AGENT ANTHONY KENDZIORA
Address 1 DOMINION DRIVE
City JANE LEW State WV Zip Code 26378