



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: 47-9700608, 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 penalties 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: 10284
Farm Name: ZICKAFOOSE, L.
API Well Number: 47-9700608
Permit Type: Plugging
Date Issued: 06/16/2016

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.

1) Date _____, 2016
2) Operator's
Well No. Zickafoose #10284
3) API Well No. 47-097 - 00608

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 ____/ Shallowx

5) Location: Elevation 1407.13 Watershed Buckhannon River
District Warren - 65 County Upshur Quadrangle Century - 287

6) Well Operator Consol Gas Company 7) Designated Agent Anthony Kendziora
Address 1000 Consol Energy Drive Address 1 Dominion Drive
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Bryan Harris Name Contractor Services Inc. (CSI)
Address P.O. Box 157 Address 929 Charleston Rd.
Volga, WV 26238 Spencer, WV 25776

10) Work Order: The work order for the manner of plugging this well is as follows:
Please see attached pages.

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

Work order approved by inspector Bryan Harris

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Environmental Protection
Date 5-9-16
06/17/2016

Plugging Work Order for Permit 47-097-00608

CNX Gas - Well 10284

1. The wellbore will be cleaned out to the total depth. All plugging shall comply with WV Code Chapter 22 Article 6.
2. Verify 4-1/2" TD (~4165')
3. TIH w/ 2-3/8" EUE work string to TD and establish circulation
4. Pump cement plug from TD ~4185' to 3700' (Benson plug)
5. Displace cement with water to 3700'
6. TOH w/ 2-3/8" EUE work string. Wait on cement before pulling 4-1/2"
7. TIH with wireline, TD and verify bottom cement plug, bond log 4-1/2 casing to T.O.C.
8. Cut 4-1/2" above old T.O.C. (est. ~3675'), pull up 2 feet
9. Through 4-1/2 casing, pump 60 bbl 6% gel spacer ahead, 100' Cement Plug across cut @ (~3675'), displace with 6% gel
10. Pull up to 2539'
11. Pump cement plug 2539' to 2439', 6% gel to 1600' (cover gas show @ 2489')
12. TOH w/ 4-1/2" casing
13. TIH with wireline and "Split Shot" a 7" collar above the packer (~1900')
14. Attempt to pull all 7" casing above "split shot"
15. TOH w/ 7" casing
16. (If unable to Pull 7", perforate w/4 holes every 100' from 1900' to 1500')
17. (Freepoint and Cut 7" and 8-5/8" @ ~1000' and pull together)
18. (If unable to pull 8-5/8" perforate w/4 holes every 100' from 1400' to 300')
19. (If unable to pull @ 1000', Cut 7" and 8-5/8" @ 300' and pull)
20. TIH w/ 2-3/8" EUE work string to 1793'
21. Pump cement plug from 1793' to 1308', 6% gel to 500' (cover gas shows @ 1743', 1709', water show @ 1750', & Elevation @ 1408')
22. Pull up to 952'
23. Pump cement plug from 952' to 852', (cover gas show @ 902')
24. Pull up to 800' circulate hole with 6% gel to surface
25. TOH w/2-3/8" EUE work string
26. Attempt to Pull all 10-3/4" casing 251'
27. TOH w/ 10-3/4" casing
28. (If unable to pull 10-3/4" casing, perf w/ 4 holes each @ 200, & 100')
29. TIH w/ 2-3/8" EUE work string to 650'
30. Pump cement plug from 650' to surface (cover water shows @ 595', 30', and 9') *✓ conc @ 369' & 48'*
31. TOH with 2-3/8" EUE, and top off cement to surface
32. Install 6" x 14" monument (10' below grade, 4' above grade) API 47-097-00608
33. The disturbed areas shall be graded, seeded and mulched as required. Site to be reclaimed as soon as possible.

Work Order approved by Inspector *Bryan Harris*

Date: *5-9-16* Office of *Oil and Gas*

Note: All cement will be Class A, no additives. All spacers between plugs will be 6% gel.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 34

97006087

Quadrangle PHILIPPA

Permit No. UPS - 608

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm Lona Zickafoose Acres 565
Location (waters) _____
Well No. 10284 Elev. 1408
District Warren County Upshur
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 6-1-60
Drilling completed 8-17-60
Date Shot Not Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 38 M Cu. Ft.
Rock Pressure 1360 lbs. 12 hrs.
Oil Show only bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED 8-25-60

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	251	251	Size of
8 1/2	1180	1180	
6 3/4	1917	1917	Depth set
5 1/2	4162	4162	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
8-5/8" csg. cemented w/45 bags. 4 1/2" csg. cemented w/55 bags.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
46 FEET 24 INCHES 366 FEET 36 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT 4,464 M
ROCK PRESSURE AFTER TREATMENT Same
Fresh Water 9 and 30 Feet Salt Water 595 and 1750 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy Soil			0	7			
Gravel Bed			7	11	Water	9'	
Sand			11	19			
Slate (White)			19	46	Water	30'	
COAL			46	48			
Lime (Blue)			48	75			
Slate			75	138			
Red Rock			138	176			
Slate & Shale			176	205			
Sand			205	218			
Slate			218	253			
Red Rock			253	258			
Slate & Shale			258	295			
Sand			295	366			
COAL			366	369			
Sand			369	420			
Lime (Gritty)			420	495			
Slate & Shale			495	536			
Sand (Brown)			536	610	Water	595'	
Slate & Shale			610	634			
Sand			634	676			
Slate			676	685			
Sand			685	814			
Lime (Broken)			814	872			
Sand			872	925			
Lime (Broken)			925	965			
Lime (Gritty)			965	990			
Slate & Shale			990	1054			
Sand			1054	1114			

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WV Department of Environmental Protection
06/17/2016

9700608P

Formation	Color	Hard or Soft	Top 34	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime (Blue)			1111	1122			
Red Rock			1122	1143			
Lime (Blue)			1143	1154			
Red Rock			1154	1223			
Lime (Blue)			1223	1232			
Lime (Gritty)			1232	1252			
Sand			1252	1292			
Red Rock			1292	1395			
Slate			1395	1411			
LITTLE LIME			1411	1429			
Slate			1429	1450			
Red Rock			1450	1457			
BIG LIME			1457	1665			
Lime (Blue)			1665	1682			
Lime (Brown)			1682	1702			
GANTZ (TOP)			1702	1840	Water	1750'	
Gritty Lime			1840	1899			
Lime (Pink)			1899	1918			
Lime (Blue)			1918	1955			
Red Lime & Slate			1955	2043			
Lime (Gritty)			2043	2082			
Lime (Red)			2082	2185			
SECOND SAND			2185	2280			
Slate & Shale			2280	3193			
Lime (Gritty)			3193	3720			
SAND HILEY			3720	3780			
Lime (Grey)			3780	4068			
BENSON			4068	4111	Gas	4098-4106	
Slate & Shells			4111	4117			
Shale			4117	4150			
Slate & Shells			4150				
Total Depth				4165			1 1/2" csg. hung 3' off bottom.

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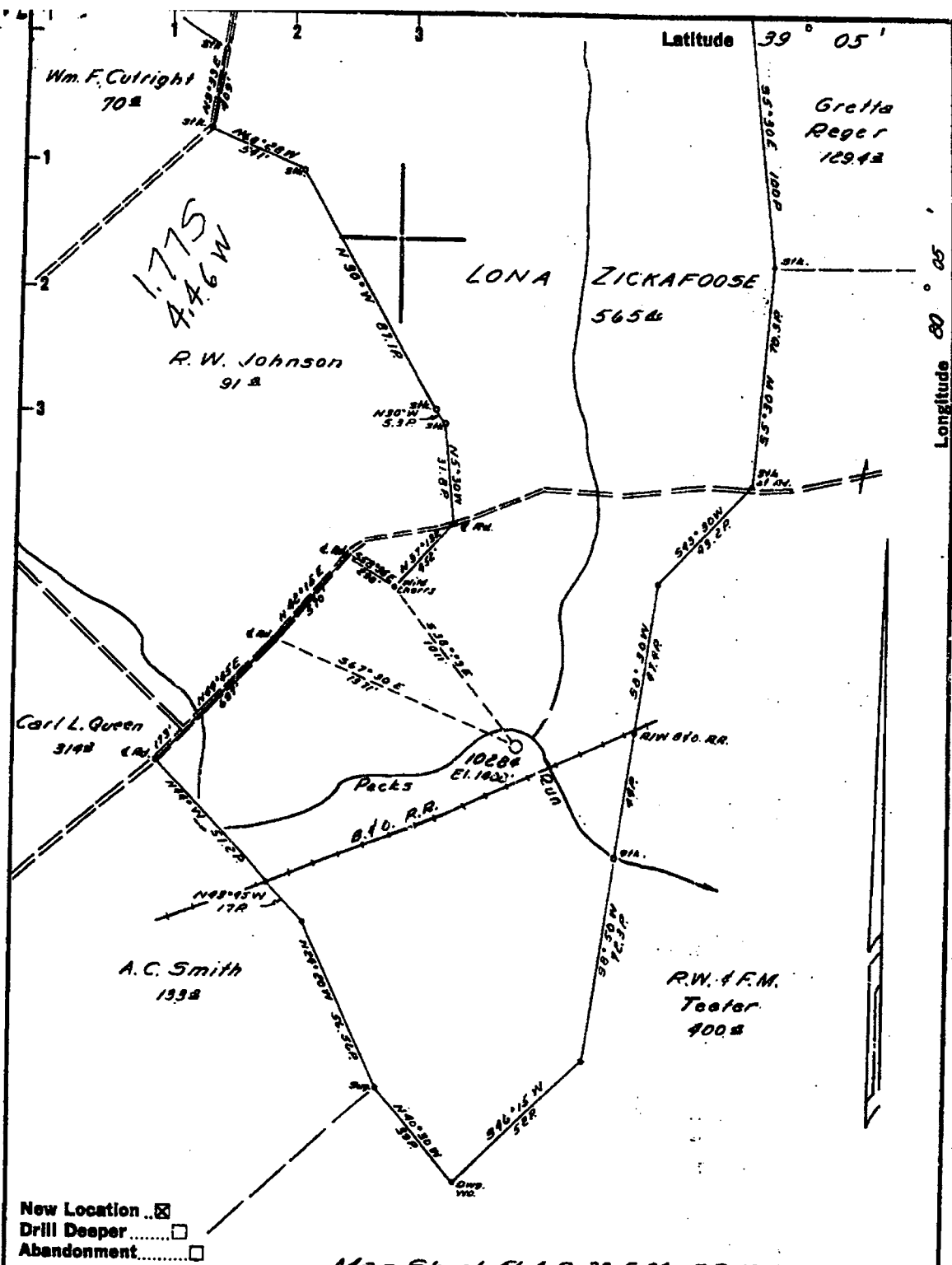
Date November 29, 19 60 Office of Oil and Gas

APPROVED Hope Natural Gas Company MAY 1 8 2016

By [Signature]

(Title) WV Department of Environmental Protection 06/17/2016

97006089



New Location
 Drill Deeper
 Abandonment

Map Sheet 56-A 5-28 E-24, FB 1210, R 15

Company HOPE NATURAL GAS CO.
 Address CLARKSBURG, W. VA.
 Farm LONA ZICKAFOOSE
 Tract _____ Acres 565 Lease No. 56676
 Well (Farm) No. _____ Serial No. 10284
 Elevation (Spirit Level) 1408'
 Quadrangle PHILIPPI - SC
 County UPSHUR District WARREN
 Engineer Guy H. Bradley
 Engineer's Registration No. 2425
 File No. _____ Drawing No. _____
 Date 4-25-60 Scale 1" = 40 Poles

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. UPS-685

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on screening of original tracing.

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 WV Department of Environmental Protection
 06/17/2016

97006088

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Zickafoose #10284

3) API Well No.: 47 - 097 - 00608

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	Dominick & Joseph Larosa /	Name	_____
Address	P.O. Box 34668 Bethesda, MD 20827	Address	_____
(b) Name	_____	(b) Coal Owner(s) with Declaration	
Address	_____	Name	Dominick & Joseph Larosa /
(c) Name	_____	Address	P.O. Box 34668 Bethesda, MD 20827
Address	_____	Name	_____
		Address	_____
6) Inspector	Bryan Harris	(c) Coal Lessee with Declaration	
Address	PO Box 157 Volga, WV 26238	Name	Regal Coal Company c/o Virgil D. Larosa /
Telephone	304-553-6087	Address	P.O. Box 2198 Buckhannon, WV 26201

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

Subscribed and sworn before me this 29th day of April 2016
Lori L. Walker
 My Commission Expires February 23, 2016
 Notary Public

COMMONWEALTH OF PENNSYLVANIA
 RECEIVED NOTARIAL SEAL
 Lori L. Walker, Notary Public
 Richhill Twp., Greene County
 My Commission Expires Feb. 23, 2016
 MAY 18 2016

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 depprivacyofficer@wv.gov.

06/17/2016

API Number 47 - 097 - 00608
Operator's Well No. Zickafoose #10284

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) Buckhannon River Quadrangle Century

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. Tim

- 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

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

Lon L. Walker
Notary Public

My commission expires February 23, 2019

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

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
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
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: Bryan Harris

Comments: _____

Title: Inspector

Date: 5-9-16

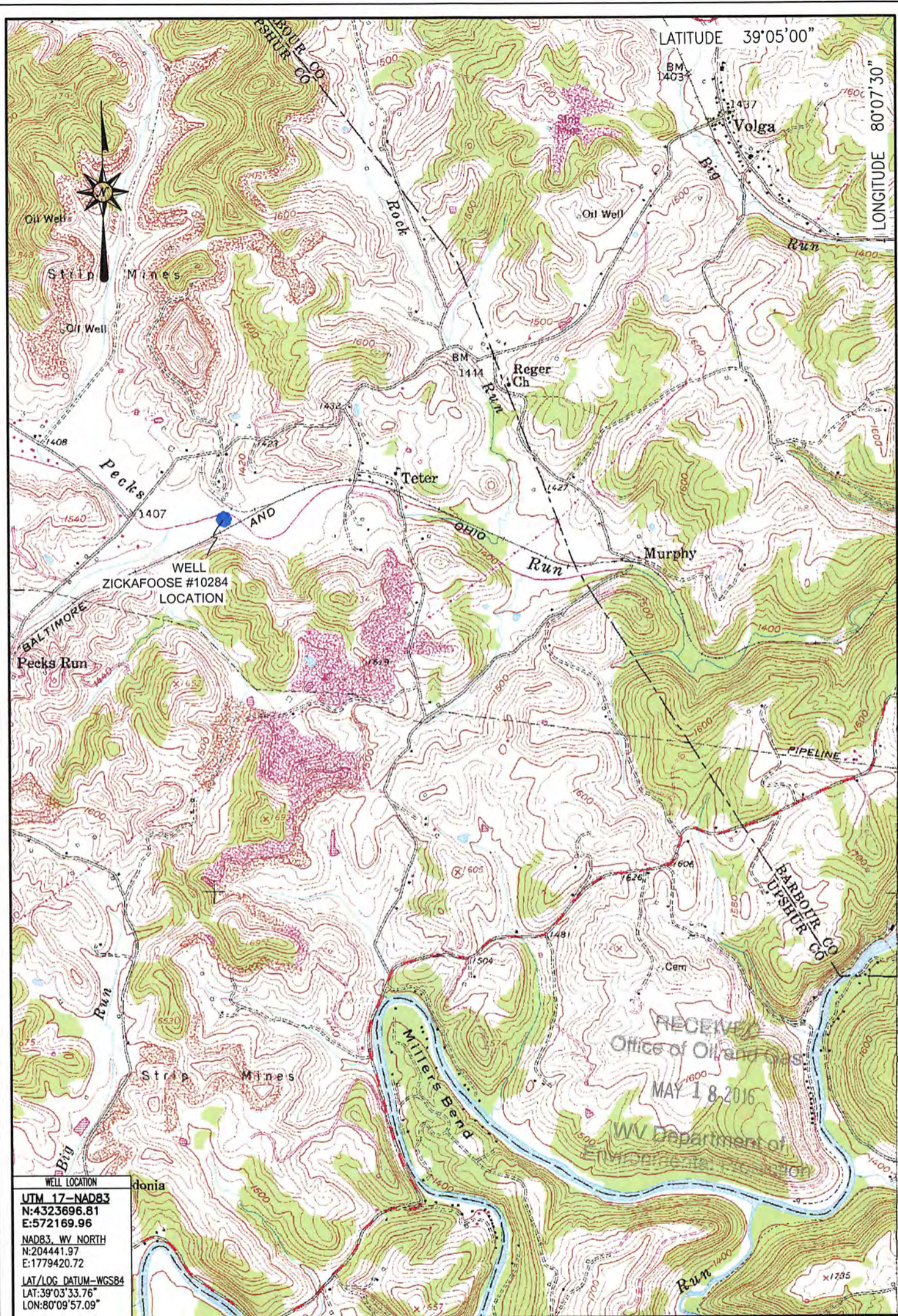
Field Reviewed? () Yes () No

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06/17/2016



LATITUDE 39°05'00"

LONGITUDE 80°07'30"



WELL
ZICKAFOOSE #10284
LOCATION

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WV Department of
Environmental Protection

WELL LOCATION
UTM 17-NAD83
N:4323696.81
E:572169.96
NAD83, WV NORTH
N:204441.97
E:1779420.72
LAT/LOG DATUM-WGS84
LAT:39°03'33.76"
LON:80°09'57.09"

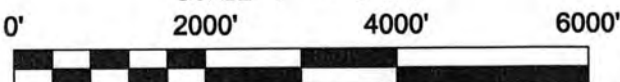
06/17/2016

LOCATION MAP
MARCH 28, 2016

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

ZICKAFOOSE #10284
CENTURY QUADRANGLE
WEST VIRGINIA

SCALE 1" = 2000'
0' 2000' 4000' 6000'

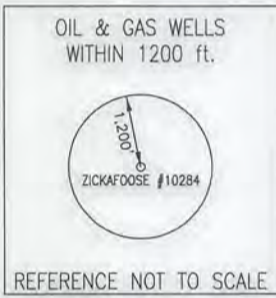
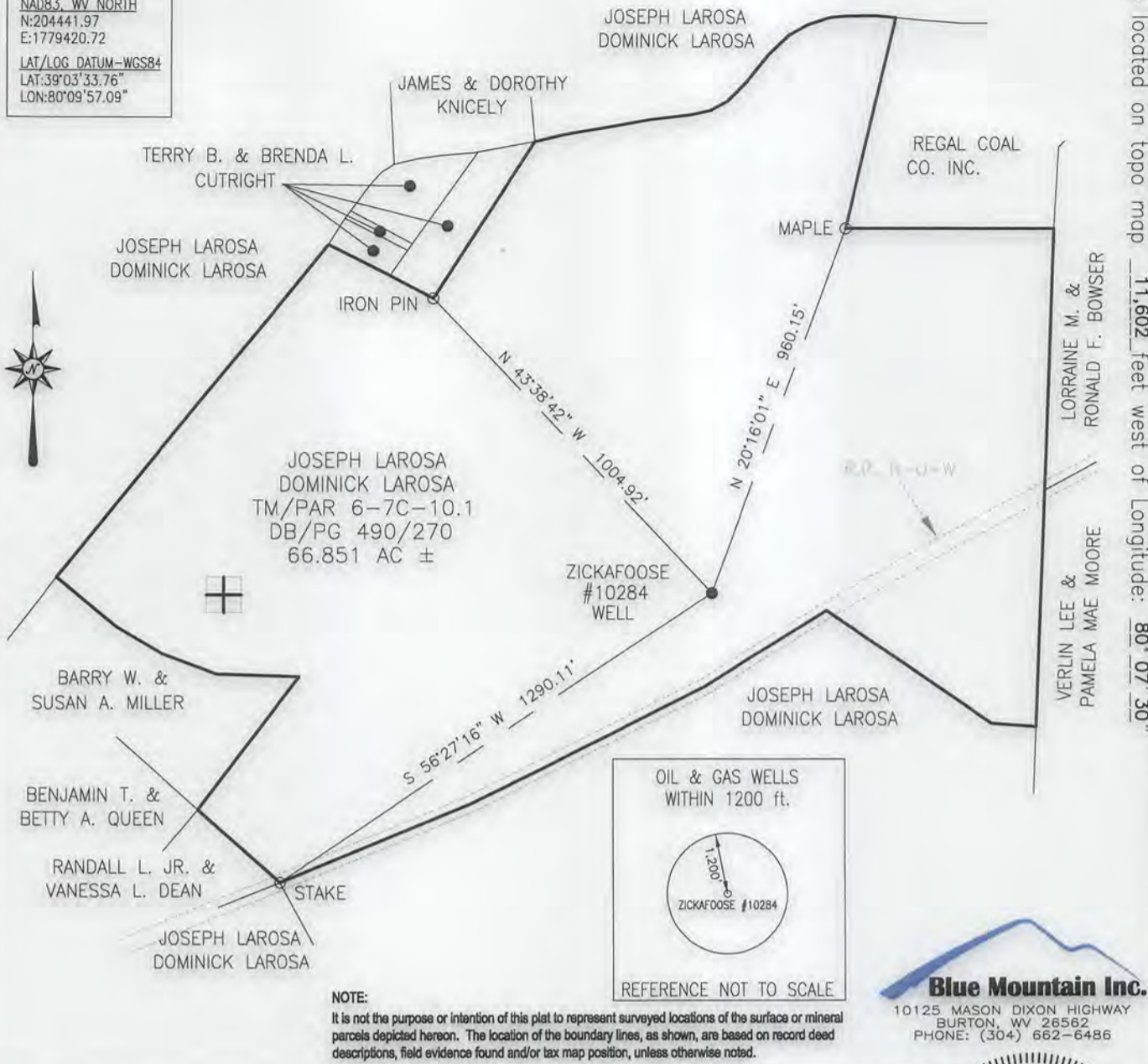


BLUE MOUNTAIN ENGINEERING

Well is located on topo map 8,725 feet south of Latitude: 39° 05' 00"

Well is located on topo map 11,602 feet west of Longitude: 80° 07' 30"

WELL LOCATION
UTM 17-NAD83
 N:4323696.81
 E:572169.96
 NAD83, WV NORTH
 N:204441.97
 E:1779420.72
 LAT/LOG DATUM-WGS84
 LAT:39°03'33.76"
 LON:80°09'57.09"



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.

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

FILE #: ZICKAFOOSE #10284
 DRAWING #: ZICKAFOOSE #10284
 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 28, 2016
 OPERATOR'S WELL #: ZICKAFOOSE #10284
 API WELL #: 47 097 00608 P
 STATE COUNTY PERMIT

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

WATERSHED: BUCKHANNON RIVER ELEVATION: 1407.13'

COUNTY/DISTRICT: UPSHUR/WARREN QUADRANGLE: CENTURY, WV 7.5'

SURFACE OWNER: JOSEPH LAROSA & DOMINICK LAROSA ACREAGE: 66.851±

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: BENSON ESTIMATED DEPTH: 4,165'±

WELL OPERATOR CONSOL GAS COMPANY DESIGNATED AGENT ANTHONY KENDZIORA
 Address 1000 CONSOL ENERGY DRIVE Address 1 DOMINION DRIVE
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

06/17/2016