



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

October 20, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1301189, issued to EQT PRODUCTION 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: 9827
Farm Name: BENNETT, LOUIS
API Well Number: 47-1301189
Permit Type: Plugging
Date Issued: 10/20/2015

Promoting a healthy environment.

10/23/2015

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1301189P

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date: September 21, 2015
Operator's Well
Well No. 149271 (Louis Bennett #9827)
API Well No.: 47 013 - 01189

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

CK # 19879
\$100.00

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil Gas Liquid Injection Waste Disposal:
If Gas, Production Or Underground storage Deep Shallow
- 5) Elevation: 297 ft. Watershed: Right Fork Crummies Creek
Location: Lee County: Calhoun Quadrangle: Millstone
District: _____
- 6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330
- 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330
- 8) Oil & Gas Joe Taylor
Name: 1478 Claylick Road
Address: Ripley, WV 25271
- 9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

OFFICE USE ONLY

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 10-2-15

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Office of Oil and Gas

10-18-2015

WV Department of
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10/23/2015

PLUGGING PROGNOSIS

L. Bennett # 9827
149271
District, Lee
Calhoun, Co. WV
API # 47-013-01189
BY: R.Green
DATE: 08/24/15

CURRENT STATUS:

Elevation @ 960'
TD at 2171'
10" csg @ 250' (pulled)
8 1/4" csg @ 892'
6 5/8" csg @ 1941'
Fresh Water, none recorded.
Coal, none recorded.
Saltwater @ 1529'.
Gas shows @ 1609 to 1616, 2037' to 2067'.

1a.
Spot Gas.

1. Notify State Inspector Joe Taylor 304-380-7469 24 hrs. prior to commencing operations.
2. TIH tbg to 2100', set 250' CIA cement plug, 2100' to 1850'. (gas show @ 2037', 6 5/8" casing seat).
3. TOOH tbg to 1850', gel hole 1850' to 1750'. TOOH tbg.
4. Cut 6 5/8" casing @ 1750', TOOH casing.
5. Set 100' CIA cement plug 50in/out of cut; perforate all freshwater, saltwater, coal, and oil and gas shows below cut. Do not omit any plugs.
6. TOOH tbg to 1625' set 200' CIA cement plug, 1625' to 1425'. (Gas show @ 1609', saltwater @ 1529').
7. TOOH tbg to 1425' gel hole, 1425' to 1150'.
8. TOOH tbg to 1150' set 350' CIA cement plug, 1150' to 800', (elevation @ 960', 8 1/4" casing seat @ 892'. TOOH tbg.
9. Cut 8 1/4" casing @ 700', TOOH casing, set 100' CIA cement plug, 50'in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below casing cut. Do not omit any plugs.
10. TOOH tbg to 300' set 300' CIA cement plug 300' to surface.
11. Erect monument with API #.
12. Reclaim road, location to WV-DEP specifications.

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10/23/2015

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4 1413 0110 1

WELL RECORD

Permit No. 149271 Oil or Gas Well Gas

Company Rona Natural Gas Company

Address 145 West Main St., Clarksburg, W. Va.

Form Leola Bennett Area 2456

Location (waters) _____

Well No. 2822 Elev. 860'

District Lee County Calhoun

The surface of tract is owned by _____

Mineral rights are owned by _____

Drilling commenced 10-28-53

Drilling completed 11-2-53

Date Shot 12-4-53 From 2037 To 2062

Well 120 Gts.

Open Flow _____

Volume 321 M

Rock Pressure 1750

OG Name _____

Fresh water Rona recorded

Salt water 1529'

Core and Tubing	Used in Drilling	Left in Well	Feet
18			Kind of Factor
10	250'	None	Size of
6 1/2	892'	892'	Depth out
6 1/4	1941'	1941'	
2			Feet top
2			Feet bottom
2			Feet top
2			Feet bottom

GASING CEMENTED _____ SOLE No. Ft. _____ Date _____

No. generating down _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Head in Feet	Top	Bottom	Oil Gas or Water	Depth Feet	Remarks
Surface			0	16			
Sand			16	48			
Red Rock			48	56			
Slate			56	90			
Sand			90	108			
Slate			108	124			
Sand			124	178			
Slate			178	234			
Red Rock			234	254			
Slate			254	300			
Sand			300	348			
Red Rock			348	385			
Lime			385	405			
Red Rock			405	500			
Sand			500	538			
Pink Rock			538	585			
Sand			585	594			
Slate			594	606			
Red Rock			606	690			
Slate			690	706			
Sand			706	730			
Slate			730	861			
LITTLE DUNBAR			861	927			
Slate			927	965			
BIG DUNBAR			965	1018			
Slate			1018	1022			
Sand			1022	1077			
Slate			1077	1130			
GAS SAND			1130	1281			
Slate			1281	1415			
2nd SALT			1415	1502			
Slate			1502	1529			
Sand			1529	1552	Water	1529-52 2	Slrs. Weak end
Slate			1552	1565			
3rd SALT			1565	1621	Gas	1609-16	
Slate			1621	1624			
Sand			1624	1652			
Slate			1652	1730			
MAKIN			1730	1823			
Red Lime			1823	1836			
Slate			1836	1850			
LITTLE LINE			1850	1881			
Lime Monday			1881	1890			
Slate			1890	1905			
BIG LINE			1905	2005	Gas	2037-67	321 M
BIG LINE			2005	2067			
Slate			2067	2171			
F.D.			2171				



CAL-1189

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Coal and Gas

SEP 28 2015

Department of
Mines and Geology

Date December 30 1953

APPROVED Rona Natural Gas Company

1301189P

WW-4-A
Revised 6/07

1) Date: September 21, 2015
2) Operator's Well Number
149271 (Louis Bennett #9827)
3) API Well No.: 47 013 - 01189
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name <u>Teddy A. Parsons</u>	Name <u>None</u>
Address <u>406 Right Crummies Creek Road</u>	Address _____
<u>Arnoldsburg, WV 25234</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>H. M. Bennett, Jr. Trustee</u>
_____	Address <u>P. O. Box 166</u>
_____	<u>Weston, WV 26452</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>None</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>(304) 380-7469</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.

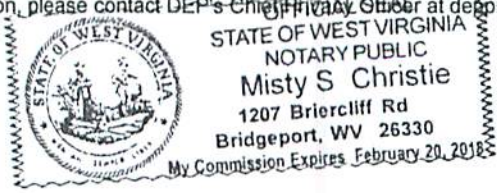
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Division 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:	<u>EQT Production Company</u>
By:	<u>Victoria J. Roark</u>
Its:	<u>Permitting Supervisor</u>
Address:	<u>PO Box 280</u>
	<u>Bridgeport, WV 26330</u>
Telephone:	<u>(304) 848-0076</u>

Subscribed and sworn before me this 22nd day of September, 2015
Misty S. Christie Notary Public
 My Commission Expires: 2/20/18

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



SEP 23 2015
WV Dep. 10/23/2015
Environmental Protection

1301189A

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____

Watershed: Right Fork Crummies Creek Quadrangle: Millstone

Elevation: 297 ft County: Calhoun District: Lee

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml 20 ml JW

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number _____
- Reuse (at API Number) _____
- Offsite Disposal Permit #. _____
- Other: Explain _____

All pits must be lined with a minimum of 20 mil thickness synthetic liner

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

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

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

Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 *Victoria Roark*

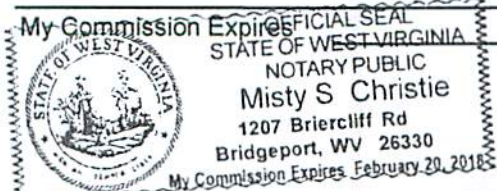
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 20th day of September, 2015

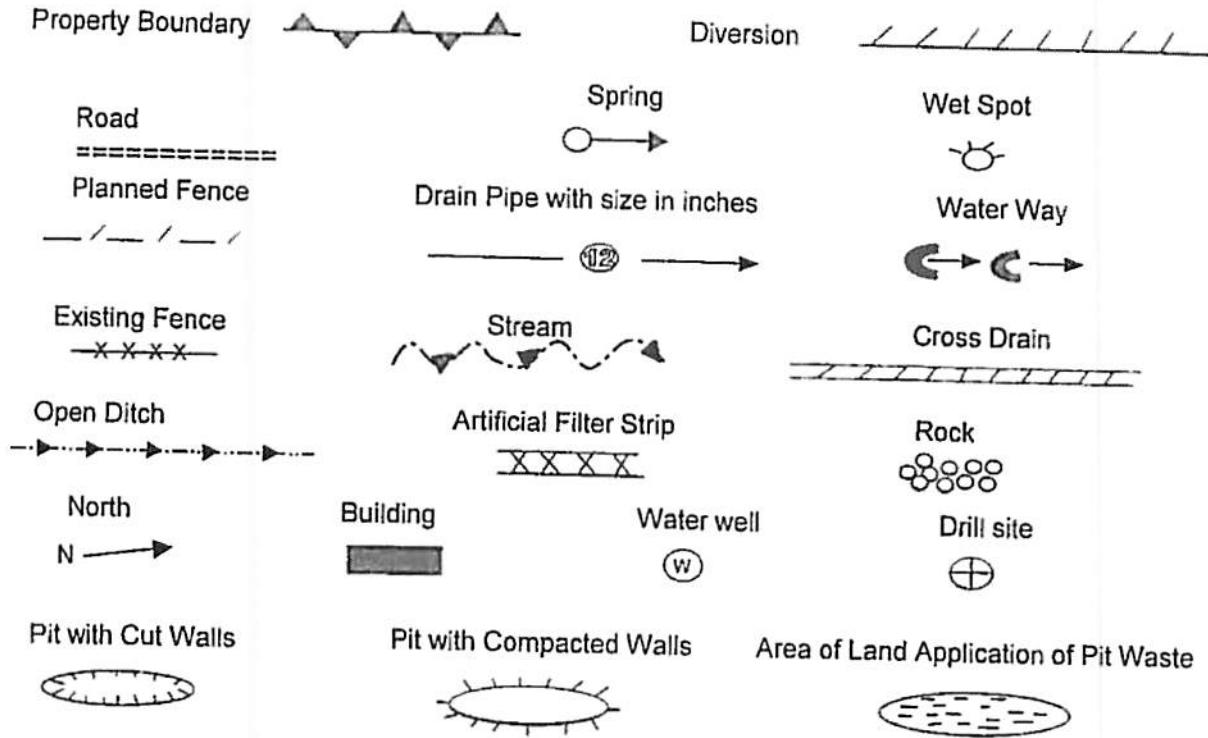
Misty S Christie Notary Public
2/20/18

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OPERATOR'S WELL NO.:
149271 (Louis Bennett #9827)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
Photocopies section of involved 7.5' topographic sheet

Plan approved by:

Comments: Sediment control to be in place at all times.

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Title: COG Inspector

Date: 10-2-15

OCT 08 2015

Field Reviewed? Yes No

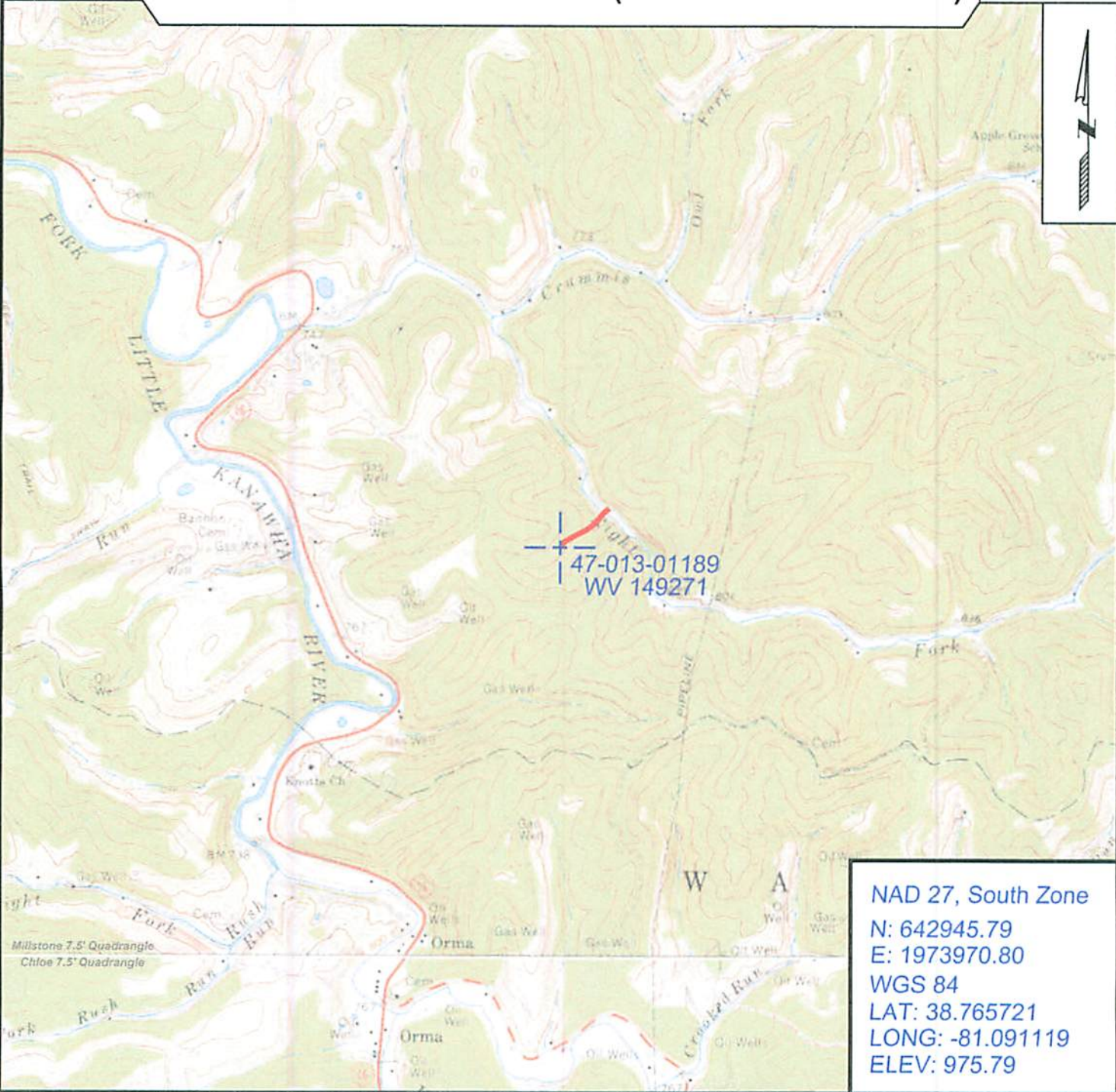
WV Department of
Environmental Protection
10/23/2015

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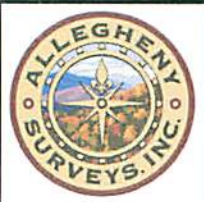
Topo Quad: Millstone 7.5' Scale: 1" = 2000'
 County: Calhoun Date: August 24, 2015
 District: Lee Project No: 178-28-00-15

47-013-01189 WV 149271 (Louis Bennett #9827)

Topo



NAD 27, South Zone
 N: 642945.79
 E: 1973970.80
 WGS 84
 LAT: 38.765721
 LONG: -81.091119
 ELEV: 975.79



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

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 10/23/2015

Topo Quad: Millstone 7.5' Scale: 1" = 2000'

County: Calhoun Date: August 24, 2015

District: Lee Project No: 178-28-00-15

47-013-01189 WV 149271 (Louis Bennett #9827)

Topo



47-013-01189
WV 149271

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OCT 08 2015

WV Department of
Environmental Protection

[Handwritten Signature]
10-2-15

NAD 27, South Zone
N. 642945.79
E: 1973970.80
WGS 84
LAT: 38.765721
LONG: -81.091119
ELEV: 975.79



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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1-800-482-8608
237 Birch River Road
Birch River, WV 26010
PH: (304) 649-8608
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

1301189P

WW-7
8-30-06



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

API: 47-013-01189 WELL NO.: WV 149271 (Louis Bennett #9827)

FARM NAME: Louis Bennett

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Calhoun DISTRICT: Lee

QUADRANGLE: Millstone 7.5'

SURFACE OWNER: Teddy A. Parsons

ROYALTY OWNER: H. M. Bennett, Jr. Trustee, et al.

UTM GPS NORTHING: 4290783

UTM GPS EASTING: 492084 GPS ELEVATION: 297 m (976 ft)

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:

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

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.

Steve O. Parsons
Signature

PS# 2180
Title

8/28/15
Date

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WV DEPARTMENT of Environmental Protection

1301189P



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Louis Bennett #9827 - WV 149271 - API No. 47-013-01189

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 149271.

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE
PO Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

RANSON OFFICE
401 South Fairfax Blvd, Suite 303
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5016

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10/23/2015

Topo Quad: Millstone 7.5'

Scale: 1" = 2000'

County: Calhoun

Date: August 25, 2015

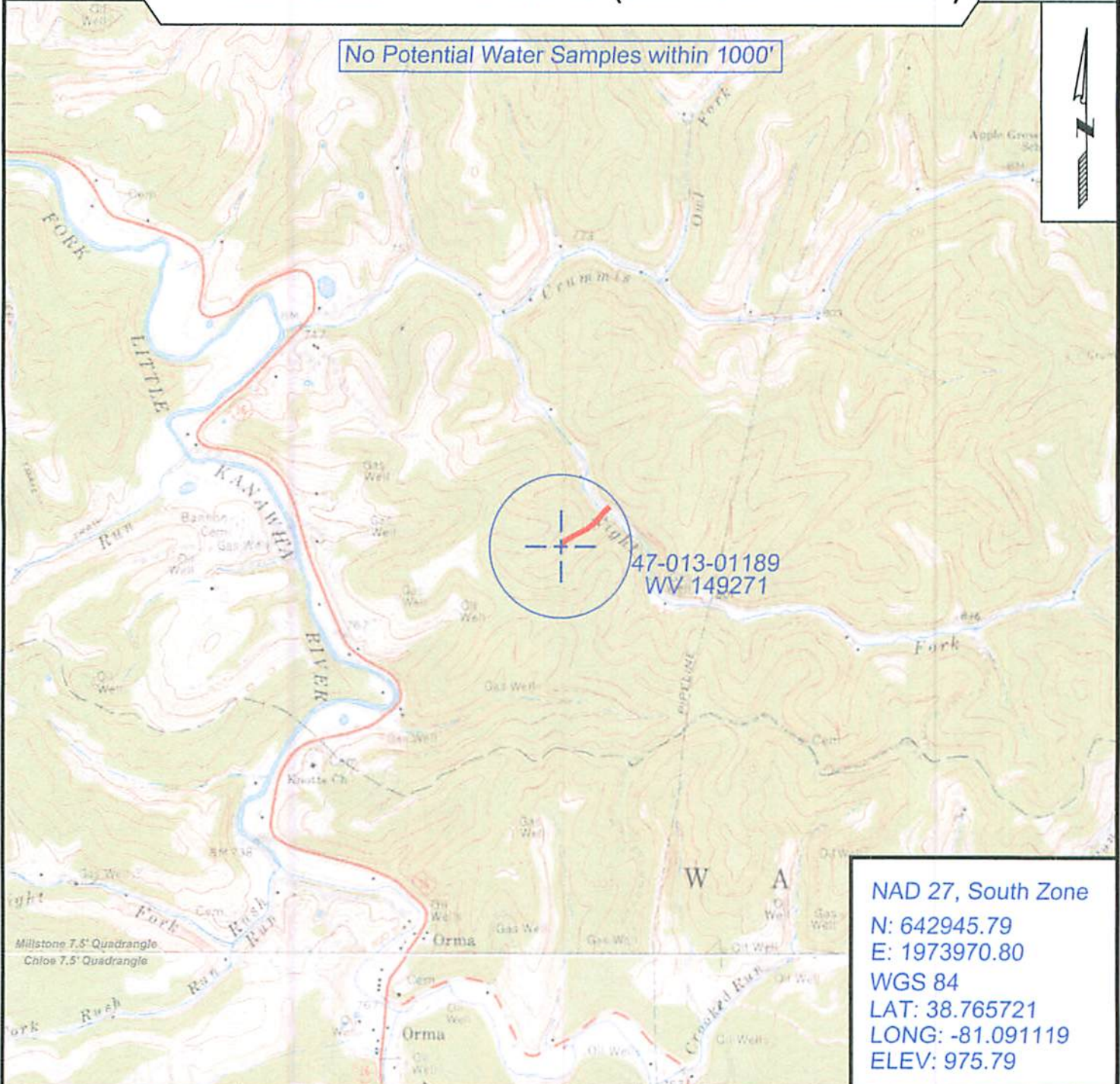
District: Lee

Project No: 178-28-00-15

Water

47-013-01189 WV 149271 (Louis Bennett #9827)

No Potential Water Samples within 1000'



NAD 27, South Zone
 N: 642945.79
 E: 1973970.80
 WGS 84
 LAT: 38.765721
 LONG: -81.091119
 ELEV: 975.79



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

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 SEP 23 2015
 WV DEP
 10/23/2015
 Environmental Protection



**Miss Utility of West Virginia (WV811)
(Exhibit A)
Directions to Gas Well No. WV 149271
API No. 47-013-01189**

- Beginning at the intersection of US Route 33 & 119 and WV State Route 16 near the town of Arnoldsburg, Calhoun County, WV. *(Point No. 1)*
- Proceed Southwest on WV State Route 16, for approximately 2.0 miles, to WV County Route 16/25, on the left. *(Point No. 2)*
- Turn left onto WV County Route 16/25 and proceed East, for approximately 0.6 mile, to the junction of WV County Route 5/7 on the left. *(Point No. 3)*
- Bear right to continue on WV County Route 16/25 and proceed Southeast, for approximately 0.7 mile, to the Well Access Road on the right. *(Point No. 4)*
- Turn right onto the Well Access Road and proceed Southwest, approximately 0.17 mile, arriving at Gas Well WV 149271. *(Point No. 5)*

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

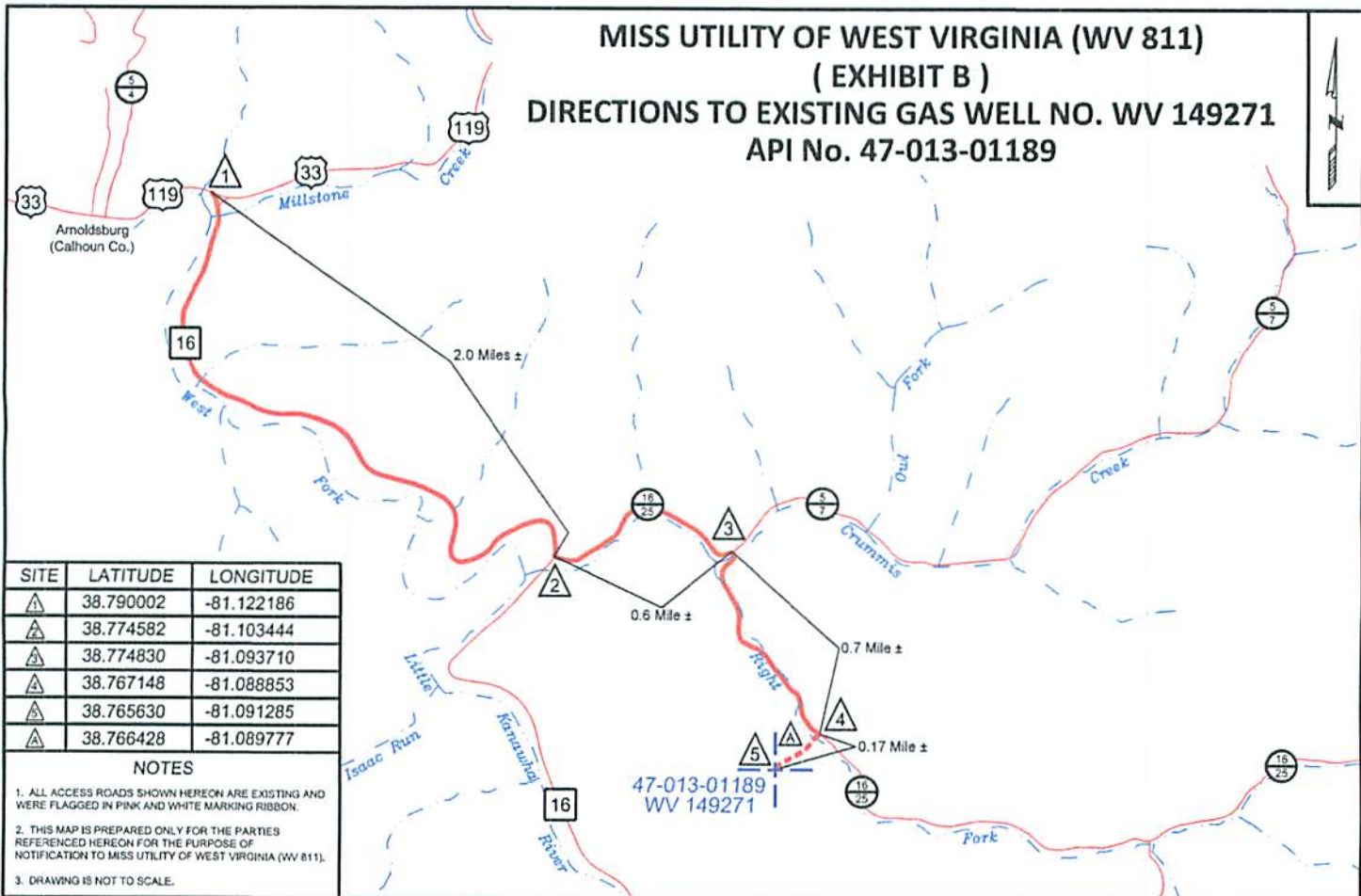
RANSON OFFICE
401 South Fairlay Blvd, Suite 3
Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010

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SEP 23 2015
WV Dept of Environmental Protection

10/23/2015

1301189A

**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)
DIRECTIONS TO EXISTING GAS WELL NO. WV 149271
API No. 47-013-01189**



SITE	LATITUDE	LONGITUDE
▲ 1	38.790002	-81.122186
▲ 2	38.774582	-81.103444
▲ 3	38.774830	-81.093710
▲ 4	38.767148	-81.088853
▲ 5	38.765630	-81.091285
▲ 6	38.766428	-81.089777

NOTES

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO MISS UTILITY OF WEST VIRGINIA (WV 811).
3. DRAWING IS NOT TO SCALE.

47-013-01189
WV 149271



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

County: Calhoun
District: Lee
Date: August 26, 2015
Project No: 178-28-00-15
FILE No: 178-15 WV 149271 MU B

PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330

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