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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

Friday, September 23, 2016  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY  
120 PROFESSIONAL PLACE  
BUILDING II  
BRIDGEPORT, WV 26330

Re: Permit approval for (12181)S-152161  
47-001-00956-00-00

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: (12181)S-152161  
Farm Name: SANDERSON, CHAS.&RAYELDA  
U.S. WELL NUMBER: 47-001-00956-00-00  
Vertical / Plugging  
Date Issued: 9/23/2016

Promoting a healthy environment.

09/23/2016

## 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.

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### 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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

100956A

SK 20672 \$400.00

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

Date: August 8, 2016  
Operator's Well  
Well No. 152161 (Reed #12181A)  
API Well No.: 47 001 - 00956

**STATE OF WEST VIRGINIA  
DIVISION 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) Elevation: 1396 ft. Watershed: Taylor Drain  
Location: Pleasant County: Barbour Quadrangle: Phillipi  
District:         

6) Well Operator EQT Production Company  
Address: 120 Professional Place  
Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place  
Bridgeport, WV 26330

8) Oil & Gas Kenneth Greynolds  
Name: 613 Broad Run Road  
Address: Jane Lew, WV 26378

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 *James Greynolds* Date 9-12-16

09/23/2016

PLUGGING PROGNOSIS

Reed, A. #12181A (152161)  
Barbour Co. WV  
District, Pleasant  
API # 47- 001- 00956

BY: Craig Duckworth  
DATE: 7/18/16

**CURRENT STATUS:**

11 3/4" csg @ 270' (cts)  
8 5/8" csg @ 1809' (cts)  
4 1/2" csg @ 4345' (220 sks)

Elevation @ 1416'

**TD: 4352'**

Fresh Water @ 40', 460' Coal @ 103', 185', 245', 470'  
Saltwater @ none reported  
Gas shows @ 4038', 3881', 3224', 2849'

1. Notify State Inspector, **Kenneth Greynolds @ (304) 206-6613**, 48 hrs. Prior to commencing operations.
2. Check TD w/wireline
3. TIH w/tbg to 4345' or actable TD', set 545' C1A cement plug from 4345' to 3800'.  
(Gas shows @ 4038', 3881') *WAIT 4 HOURS, TAG PLUG ADD CEMENT IF NEEDED. gwin*
4. *4 1/2" TOC ABOVE 2600'*
5. ~~TOOH~~ w/tbg to 3800', gel hole 3800' to 3274'
6. TOOH w/tbg to 3274' set 200' C1A cement plug from 3274' to 3047', (Gas Show @ 3224').
7. TOOH w/tbg to 3047' gel hole 3047' to 2900'.
8. TOOH w/tbg to 2900' set 200' C1A cement plug from 2900' to 2700'. (Gas Show @ 2849')
9. TOOH w/tbg, Free point 4 1/2" csg, cut csg @ free point, TOOH w/csg.
10. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs
11. TIH w/tbg to 2150', set 200' C1A cement plug 2150' to 1950'. (4 1/2" csg cut).
12. TOOH w/tbg to 1950' gel hole 1950' to 1850'
13. TOOH w/tbg to 1850' set 100' C1A cement plug from 1850' to 1750', (8 5/8" @ 1809' cts)
14. ~~Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs~~  
*8 5/8" CTS.*

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15. TOOH w/tbg to 1750' gel hole 1750' to 1415'
16. TOOH w/tbg to 1415' set 200' C1A cement plug from 1415' to 1215' ( Elev.@ 1415')
17. TOOH w/tbg to 1215' gel hole from 1215' to 700'.
18. TOOH w/tbg to 700' set 100' C1A cement plug from 700' to 600' (Safety Plug).
19. TOOH w/tbg to 600' gel hole from 600' to 470'
20. TOOH w/tbg to 470', set 470' C1A cement plug 470' to 0'. (11 3/4" csg @ 270', Coal Shows @ 470', 245', 185', 103', FW @ 40', 460').
21. Erect monument with API#
22. Reclaim location and road to WV-DEP specifications.

Department  
Office of Oil & Gas  
AUG 19 2016

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WR-35

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Permitting  
Office of Oil & Gas  
JAN 15 1997

State of West Virginia  
Division of Environmental Protection  
Division of Environmental Protection  
Section of Oil and Gas

06-Aug-96  
API #47-001-00956F

Well Operator's Report of Well Work

Reed 12181  
Farm Name: Sanderson, Chas. & Rayelda Operator Well No.: (12181) S-152161  
Location: Elevation: 1416.0 Quadrangle: Philippi  
District: Pleasant County: Barbour  
Latitude: 625 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude: 800 Feet West of 80 Deg. 2 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, OS-2  
ASHLAND, KY 41114-0391

Agent: James L. Stephens

Inspector: Phillip Tracy

Permit Issued: 10-04-96  
Well Work Commenced: 10-10-96  
Well Work Completed: 10-24-96  
Verbal Plugging  
Permission granted on:  
Rotary Cable Rig  
Total Depth (feet) 4352'  
Fresh water depths (ft) 40', 460'  
Salt water depths (ft) None  
Is coal being mined in area (Y/N)? Y  
Coal Depths (ft): 103', 185', 245', 470'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 11 3/4"	270'	270'	CTS
8 5/8"	1809'	1809'	CTS
4 1/2"	4345'	4345'	220 sks

NOTE: RECOMPLETION  
2959-2969'

OPEN FLOW DATA

Producing formation	Speechly Warren	Pay zone depth (ft)	2635-2639
Gas: Initial open flow	94 Mcf/d	Oil: Initial open flow	Bbl/d
Final open flow	15 Mcf/d	Final open flow	Bbl/d
Time of open flow between initial and final tests		3	Hours
Static Rock Pressure	720	psig (surface pressure) after	96 Hours

Second Producing formation		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 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 FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Ashland Exploration, Inc.

Office of Oil & Gas

By: Deanna M. Rose, Asst. Eng.  
Date: 01-08-97

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Philippi

100956P

BAR-956F

Set 4 1/2" Alpha CIBP @ 4140'. Dump 10' cmt on top of CIBP from 4130-4140'. Perf 4 squeeze holes @ 3065-3066'. Pump 175  
sx CI A cement.

Perf Speechly with 3 1/8" HCG .37 jets 23H/2959-2969. 75Q foam frac Speechly using 25,700# 20/40 sand and 323,000 scf N<sub>2</sub> @  
15,000 scf/m. BD @ 3056, ATP 3220 @ 16 B/M foam, MTP 3333, ISIP 2929, 10 min 2849, TF 86 bbl..

Perf Warren with 3 1/8" HCG .37 jets under lubricator 9H/2635-2639. 75Q foam frac Warren using 5000# 20/40 sand and 150,000  
scf N<sub>2</sub> @ 14,100 scf/m. BD @ 3524, ATP 3440 @ 16 B/M foam, MTP 3608, ISIP 3359, 10 min 2805, TF 58 bbl.

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**RECEIVED**  
SEP 27 1978

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Philippi

Permit No. BAR-956  
47-001

Company	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
<u>Consolidated Gas Supply Corp.</u>	Size <u>20-16</u>			
<u>Address 445 W. Main St., Clarksburg, WV</u>	Cond. <u>13/16" 11 3/4"</u>	<u>270'</u>	<u>270'</u>	To surface
<u>Farm Alfred Reed Acres 1/8</u>	<u>9 5/8</u>			
<u>Location (waters) Taylor Drain</u>	<u>8 5/8</u>	<u>1300'</u>	<u>1300'</u>	To surface
<u>Well No. 12181 Elev. 1116'</u>	<u>7</u>			
<u>District Pleasant County Barbour</u>	<u>5 1/2</u>			
<u>The surface of tract is owned in fee by Charles E. Sanderson</u>	<u>4 1/2</u>	<u>4345'</u>	<u>4345'</u>	220 Sks.
<u>Address Rt. 3, Philippi, WV</u>	<u>3</u>			
<u>Mineral rights are owned by Alfred Reed, Agt.</u>	<u>2</u>			
<u>Address Rt. 3, Box 189, Philippi, WV</u>	<u>Liners Used</u>			
<u>Drilling Commenced June 20, 1978</u>				
<u>Drilling Completed June 27, 1978</u>				
<u>Initial open flow 60M cu. ft. bbls.</u>				
<u>Final production 1205M cu. ft. per day bbls.</u>				
<u>Well open 1 hrs. before test 1000 RP.</u>				

Well treatment details:

Attach copy of cementing record.

Well fractured in Bensen with 50,000# sand, 750 bbls. of water & 500 gals. 15% HCL.  
Perforations: 4156 - 4161 with 15 holes.

Coal was encountered at 103' 185' 215' 470' Feet 36" 48" 35" 60" Inches  
Fresh water 40' 460' Feet Salt Water None Feet  
Producing Sand Bensen Depth 4161'

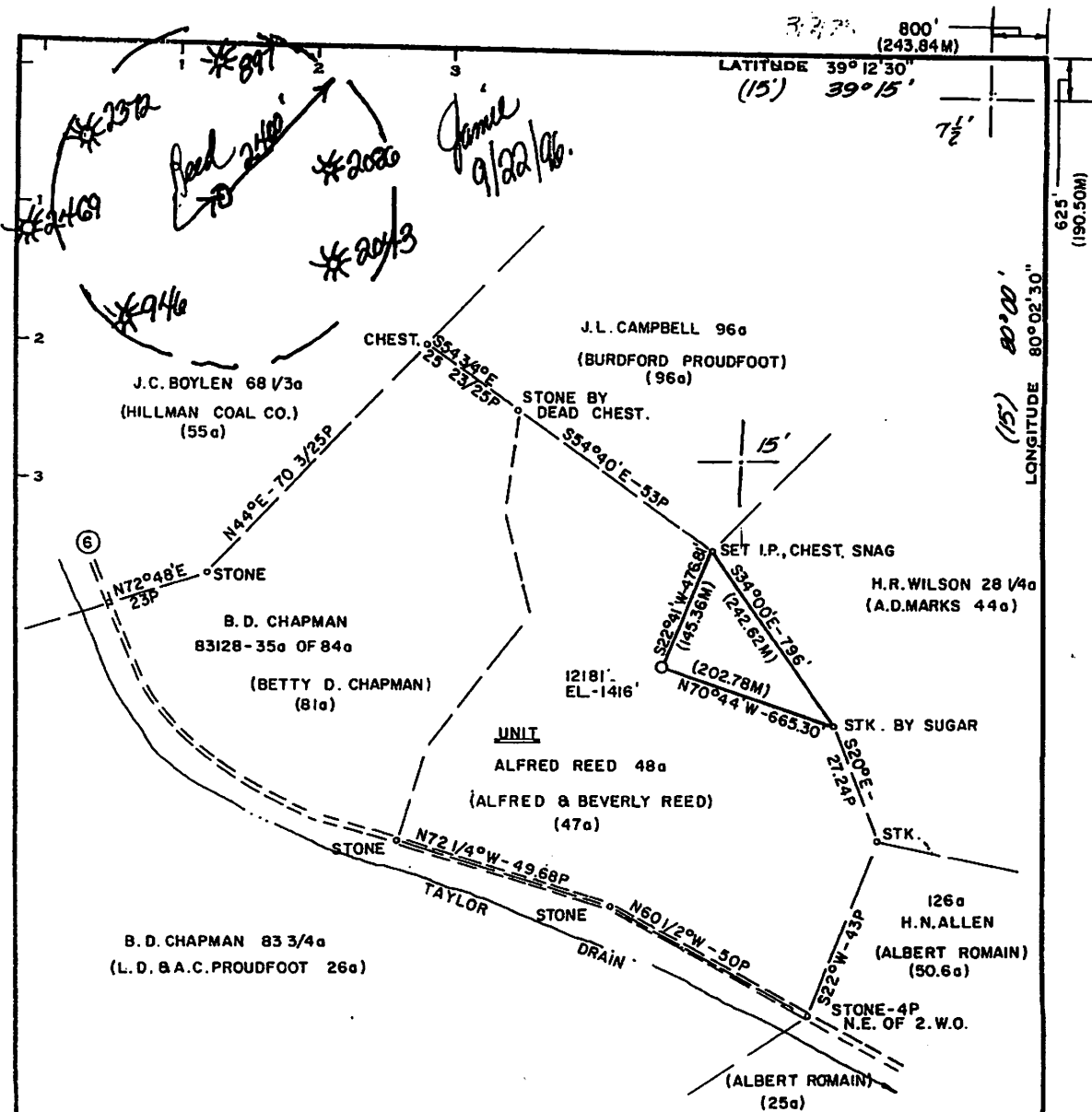
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			0	5		
Shale & Sand			5	50	Water	40' Damp
Red Rock & Shale			50	68		
Red Rock			68	70		
Shale & Sand			70	103		
Coal			103	106		
Sand			106	110		
Red Rock			110	125		
Sand			125	185		
Coal			185	189		
Sand			189	200		
Red Rock			200	210		
Shale & Sand			210	215		
Coal			215	248		
Shale & Sand			248	470	Water	460' Damp
Coal			470	475		
Sand & Shale			475	935		
Red Rock & Shale			935	1040		
Sand & Shale			1040	1280		
Big Lime			1280	1385	Gas	2849' 133M
Sand & Shale			1385	1950	Gas	3224' 9LM
Shale & Red Rock			1950	2165	Gas	3881' 60M
Sand & Shale			2165	4160	Gas	4038' 60M
Bensen			4160	4200		
Shale			4200	4352	T.D.	

KBM 10' above G. L. (over)  
\* Indicates Electric Log tops in the remarks section.

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Minimum Error of Closure 1' IN 200'  
 Source of Elevation ROAD FORK EL-1391' PHILIPPI 7 1/2 TOPO.

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

- REVISED LOC
- New Location
- Drill Deeper
- Abandonment

Ashland Exploration, Inc.  
 P.O. box 391-Ashland, Ky 41114-0391  
 Surface: Charles & Rayelda Sanderson

Tract            Acres 48 Lease No. 93127  
 Well (Farm) No.            Serial No. 12181  
 Elevation (Spirit Level) 1416'  
 Quadrangle PHILIPPI 7 1/2'  
 County BARBOUR District PLEASANT  
 Engineer Daniel M Redcliffe  
 Engineer's Registration No. L.L.S 74  
 File No.            Drawing No.             
 Date 2-13-78 Scale 1"=500'

SIB E31

F.B. 1898 PG. 6-7  
 F.B. 1784 PG. 35-40

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 NITRO, WEST VIRGINIA 25143

WELL LOCATION MAP  
 AR (WV) 47-001-009567  
 Well drilled in 1978 by  
 Consolidated Resources  
 TD 4352 Production from  
 Benson's squeeze + 1/2 frac  
 Riley Speech of completion  
 with Benson, Phillipi 5

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WW-4-A  
Revised 6/07

1) Date: August 8, 2016  
2) Operator's Well Number  
152161 (Reed #12181A)  
3) API Well No.: 47 001 - 00956  
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:  
(a) Name Kevin L. Keene, Richard L. & Esther Keene  
Address 110 Sunset Circle Lane  
Philippi, WV 26416  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Kenneth Greynolds  
Address 613 Broad Run Road  
Jane Lew, WV 26378  
Telephone (304) 206-6613

5) (a) Coal Operator:  
Name Wolf Run Mining Co., LLC  
Address 1 Edmiston, Suite 211  
Buckhannon, WV 26201  
(b) Coal Owner(s) with Declaration  
Name Kevin L. Keene, Richard L. & Esther Keene  
Address 110 Sunset Circle Lane  
Philippi, WV 26416  
(c) Coal Lessee with Declaration  
Name Arch Coal / Ark Land Company  
Address c/o Vaughn R. Miller  
Arc Land Northern Appalachia  
100 Tygart Drive  
Grafton, WV 26354

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

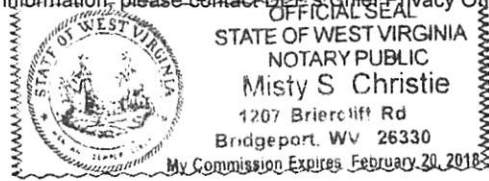
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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: EQT Production Company  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 8<sup>th</sup> day of August, 2016  
Misty S. Christie Notary Public  
My Commission Expires: 2/2018

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](mailto:depprivacyofficer@wv.gov).



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

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): Taylor Drain Quadrangle: Phillipi

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes\_\_\_ NoX

Will a pit be used? Yes X No\_\_\_

If so, please describe anticipated pit waste:

**Formation Fluids**

Will a synthetic liner be used in the pit? Yes X No\_\_\_ Is so, what ml.? 20 10ml

Proposed Disposal Method for Treated Pit Wastes:

- \_\_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP)
- \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)
- X Reuse (at API Number -- Various \_\_\_\_\_)
- X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
- \_\_\_\_\_ Other: (Explain \_\_\_\_\_)

Will closed loop system be used ? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

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? \_\_\_\_\_

Permittee shall provide written notice to the Office of the 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 Division 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

Company Official Signature *Vicki Roark*

Company Official (Typed Name) Vicki Roark

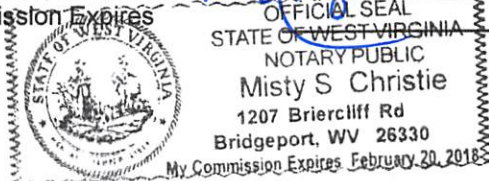
Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 8th day of August

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*Misty S. Christie* Notary Public

My Commission Expires \_\_\_\_\_

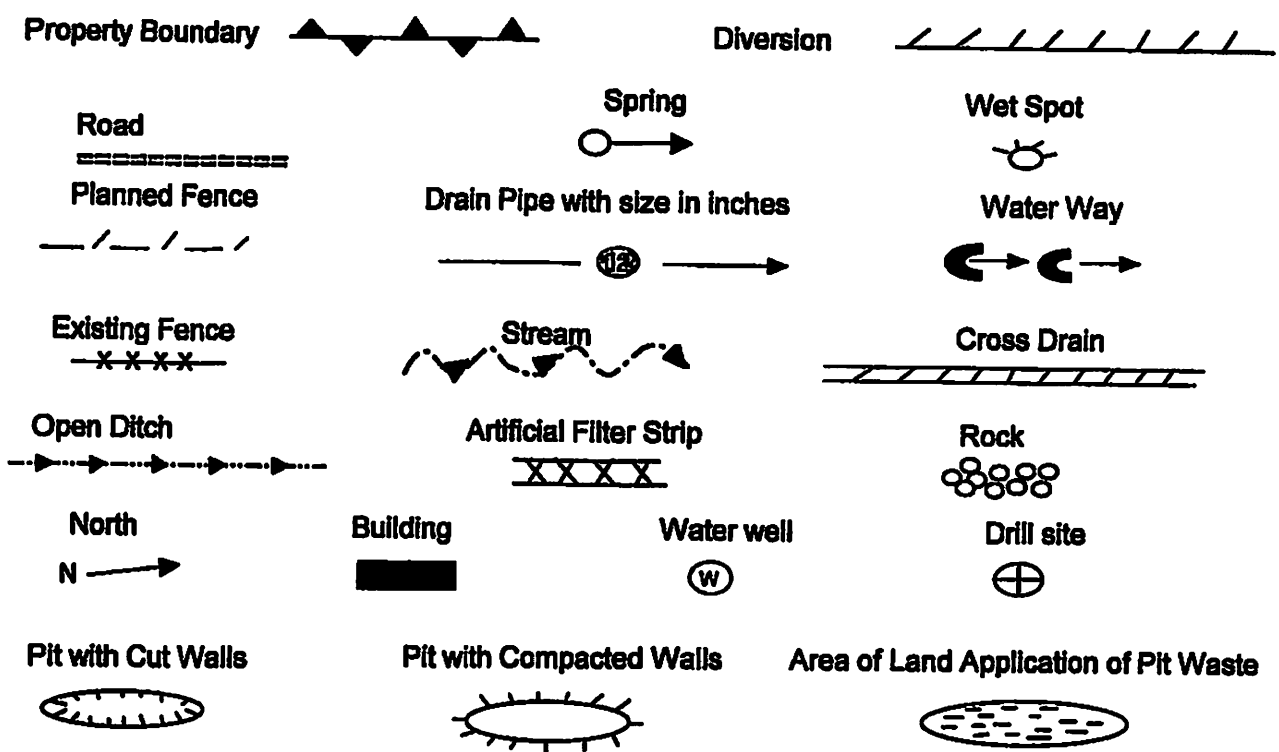


2/20/18

09/23/2016

**OPERATOR'S WELL NO.:**  
**152161 (Reed #12181A)**

**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		

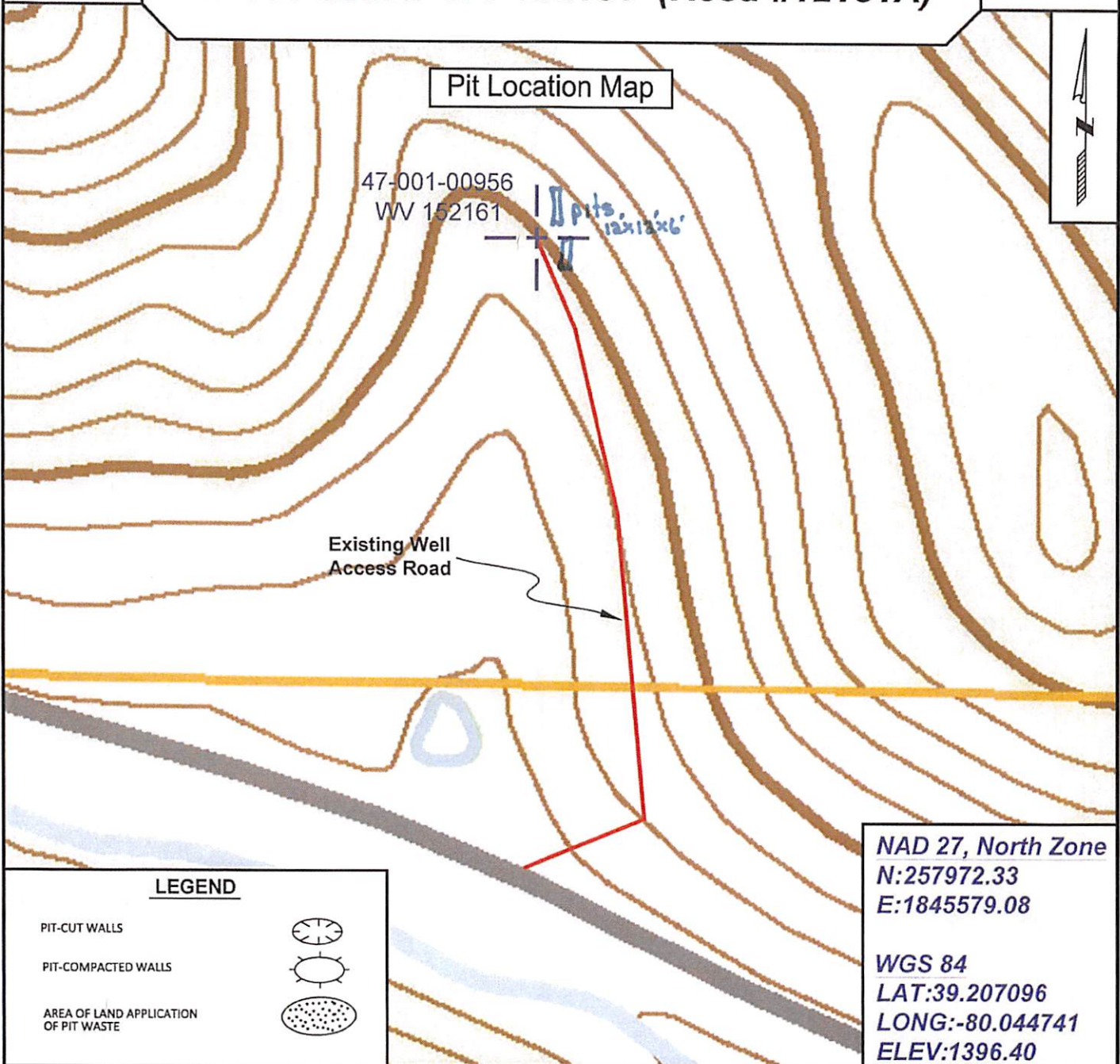
**ATTACH:**  
 Drawing(s) of road, location, pit and proposed area for land application.  
 Photocopies section of involved 7.5' topographic sheet.  
 Plan approved by: [Signature]  
 Comments: RECLAIM, RESEED AND MULCH 15M

Title: OLE GAS INSPECTION Date: 9-12-16  
 Field Reviewed? Yes  No

Topo Quad: Philippi 7.5' Scale: 1" = 200'  
 County: Barbour Date: August 12, 2016  
 District: Pleasant Project No: 163-10-00-16

### 47-001-00956 WV 152161 (Reed #12181A)

#### Pit Location Map






47-001-00956  
WV 152161

Pits  
12x12x6'

Existing Well  
Access Road

NAD 27, North Zone  
 N:257972.33  
 E:1845579.08  
 WGS 84  
 LAT:39.207096  
 LONG:-80.044741  
 ELEV:1396.40

#### LEGEND

- PIT-CUT WALLS 
- PIT-COMPACTED WALLS 
- AREA OF LAND APPLICATION OF PIT WASTE 



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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**EQT Production Water plan**  
**Offsite disposals**

**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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Topo Quad: Philippi 7.5'

Scale: 1" = 2000'

County: Barbour

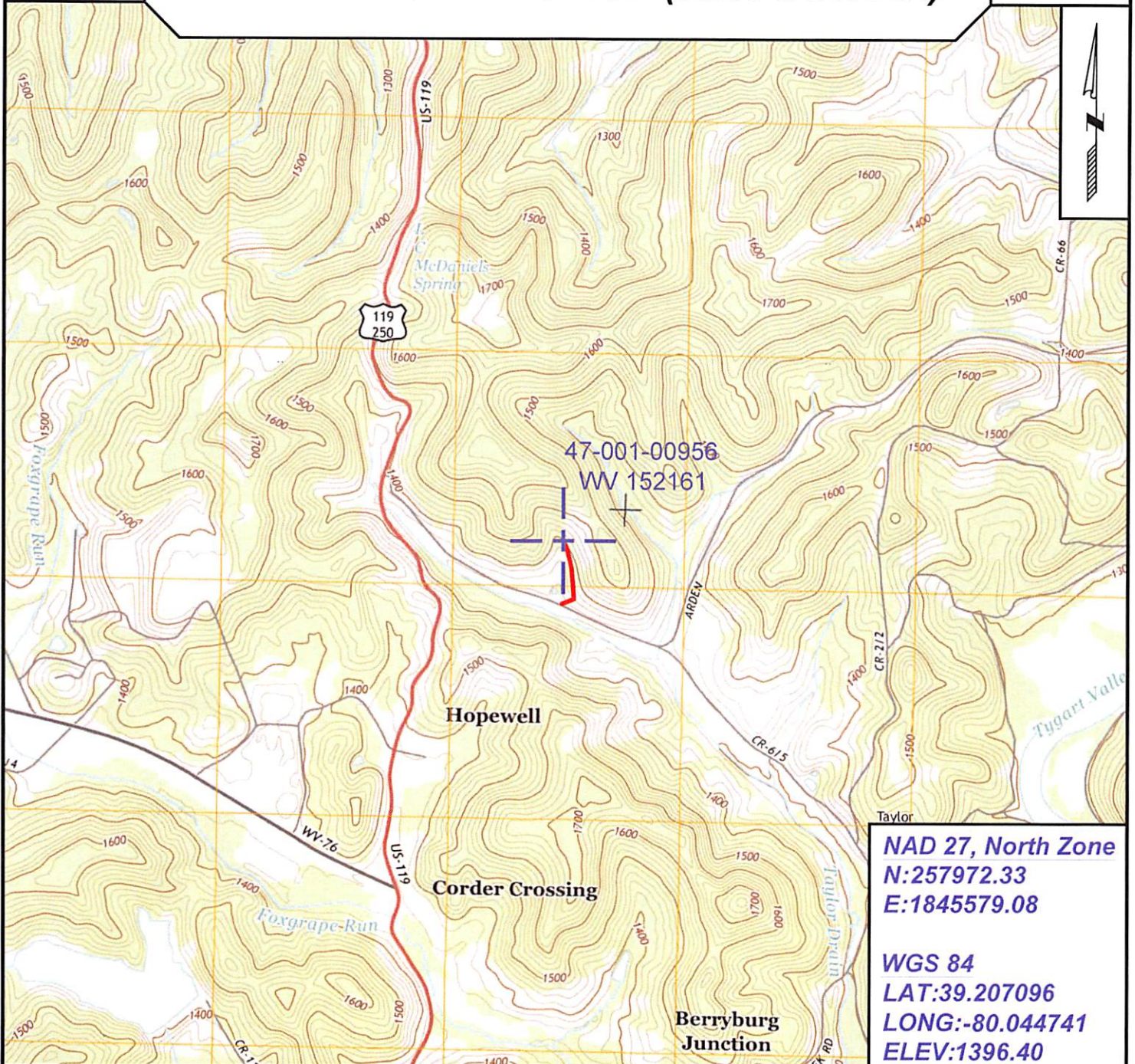
Date: July 26, 2016

District: Pleasant

Project No: 163-10-00-16

# 47-001-00956 WV 152161 (Reed #12181A)

Topo



**NAD 27, North Zone**  
**N:257972.33**  
**E:1845579.08**

**WGS 84**  
**LAT:39.207096**  
**LONG:-80.044741**  
**ELEV:1396.40**



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

Received  
 Office of Oil & Gas  
 AUG 19 2016

09/23/2016







## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Reed #12181A - WV 152161 - API No. 47-001-00956

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 400 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Public water

Site: 2 Spacing: 800 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Public water

Site: 3 Spacing: 780 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Unoccupied house

Site: 4 Spacing: 580 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Unoccupied mobile home

Site: 5 Spacing: 670 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Pond

Site: 6 Spacing: 680 +/- Owner: Kevin L. Keene - Richard L. and Esther Keene (Life Estate)  
 Address: 110 Sunset Circle Lane, Philippi, WV 26416 Phone No. \_\_\_\_\_  
 Comments: Public water

#### 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

#### MARTINSBURG OFFICE

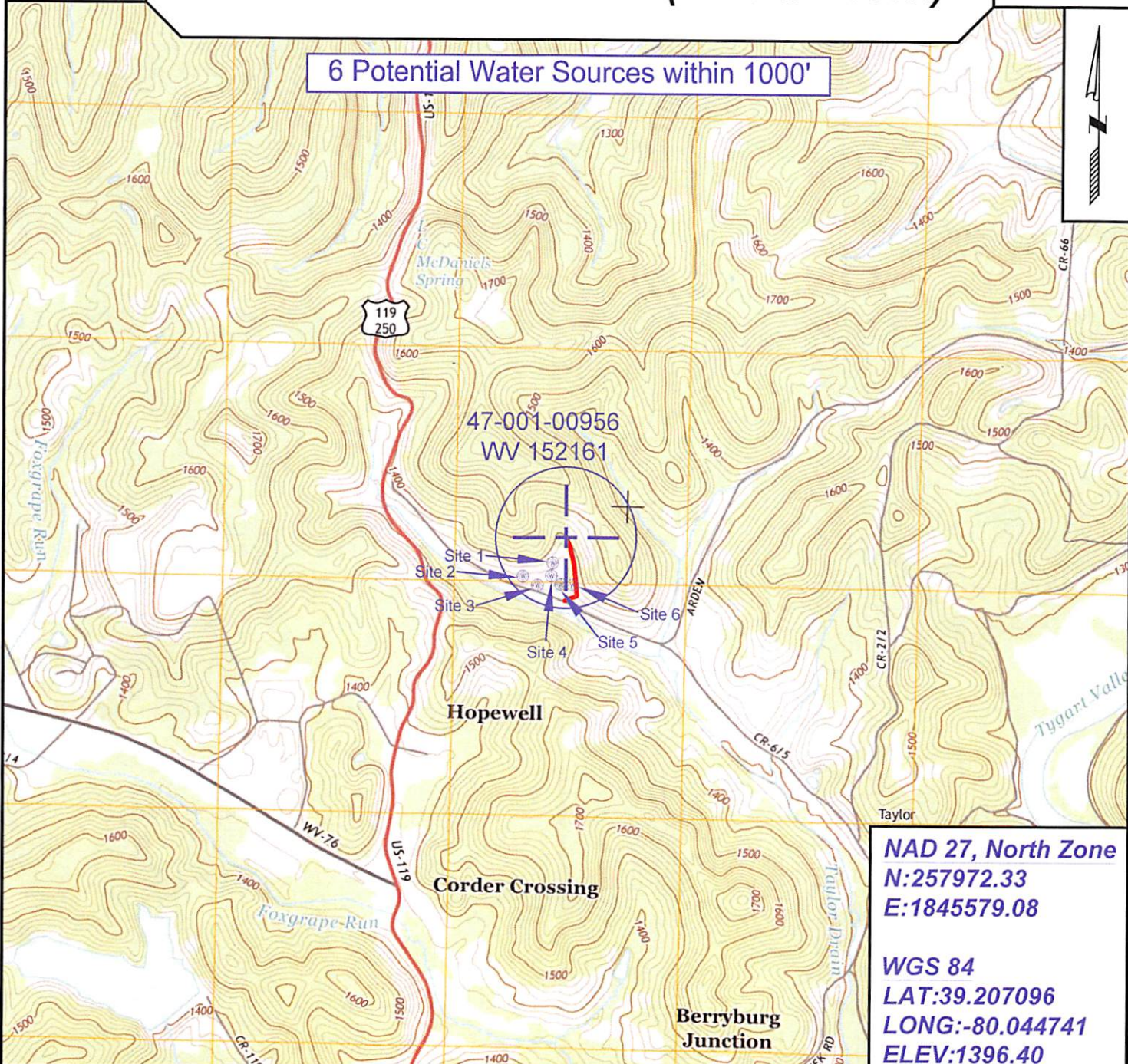
25 Lights Addition Drive  
 Martinsburg, WV 25404  
 phone: 304-901-2162  
 fax: 304-901-2182

Topo Quad: Philippi 7.5' Scale: 1" = 2000'  
 County: Barbour Date: July 26, 2016  
 District: Pleasant Project No: 163-10-00-16

Water

# 47-001-00956 WV 152161 (Reed #12181A)

6 Potential Water Sources within 1000'



**NAD 27, North Zone**  
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