



**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

April 15, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5900499, 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: 656596 (USSC#13) (13-1698)  
Farm Name: POCAHONTAS LAND CORPORA  
**API Well Number: 47-5900499**  
**Permit Type: Plugging**  
Date Issued: 04/15/2014

# 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.

5900499A

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

Date: 3-26-14  
Operator's Well \_\_\_\_\_  
Well No. 656596 (USSC #13)  
API Well No.: 47 059 - 00499

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: 1479' Watershed: Pigeon Creek  
Location: Magnolia County: Mingo Quadrangle: Barnabus 7.5'  
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 Jeremy James  
Name: P.O. Box 147  
Address: Ona, WV 25545

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 4-3-14

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Office of Oil and Gas

APR 14 2014

WV Department of Environmental Protection 04/18/2014

PLUGGING PROGNOSIS

656596 Us Steele Corp # 13 - # 1698

Mingo County, West Virginia  
API # 47-059-00499

BY: Beau Fry  
DATE: 12/16/13

CURRENT STATUS:

- 10 3/4" csg @ 500'
- 8 5/8" csg @ 2000'
- 6 5/8" csg @ 2847' 7"x8 5/8" - Packer @ 2847'
- 3 1/2" tubing @ 3052' - packer @ 2863'
- TD @ 3052'

Oil Shows - None Reported FW Shows - None reported Coal Shows - 100'-102', 170'-174', 261'-264'  
1" Salt Sand top @ Not on record Gas shows - 2725'-3052' Lime Gas show, 1400'- 1958' Sand gas show Elevation 1475'

Stimulation:

1. Notify State Inspector, Jeremy James, 1-304-951-2596 48 hrs prior to commencing operations.
2. Attempt to pull Tubing and Packer, If Tubing and Packer will not pull, TIH w/ Wireline @ 2863', Cut tubing @ 2863' and TOOH w/Tubing and check condition.
3. TIH w/ tubing @ 2863'; set 263' C1A cement plug @ 2863' to 2600'. ( Lime gas show, 6 5/8" csg pt, Packer).
4. TOOH w/ tubing @ 2600'; Gel hole @ 2600' to 2050'.
5. TOOH w/ tubing, Free Point 6 5/8" csg, cut 6 5/8" csg, cut @ free point, TOOH w/ 6 5/8" csg.
6. Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas, Oil ,Coal, Elevation & FW shows below 6 5/8" cut and do not omit any plugs shown.
7. TIH w/ tubing @ 2050'; set 100' C1A cement plug @ 2050' to 1950'. (8 5/8" csg pt.)
8. TOOH w/ tubing @ 1950'; Gel hole @ 1950' to 1400'.
9. TOOH w/ tubing, Free Point 8 5/8" csg, cut 8 5/8" csg @ free point, TOOH w/ 8 5/8" csg.
10. Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas, Oil ,Coal, Elevation & FW shows below 8 5/8" cut and do not omit any plugs shown.
11. TIH w/ tubing @ 1400'; set 100' C1A cement plug @ 1400' to 1300'. (Sand gas show, Elevation plug)
12. TOOH w/ tubing @ 1300'; Gel hole @ 1300' to 550'.
13. TOOH w/ tubing @ 550'; set 100' C1A cement plug @ 550' to 450'. (10 3/4" csg pt)
14. TOOH w/ tubing @ 450'; Gel hole @ 450' to 320'.
15. TOOH w/ tubing, Free Point 10 3/4" csg, cut 10 3/4" csg @ free point, TOOH w/ 10 3/4" csg.
16. Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas, Oil ,Coal, Elevation & FW shows below 10 3/4" cut and do not omit any plugs shown.
17. TIH w/ tubing @ 320'; set 320' C1A cement plug @ 320' to surface'. (3 coal shows)
18. Top off as needed.
19. Set Monument to WV - DEP Specifications
20. Reclaim Location & Roads to WV - DEP Specifications.

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Er: [unclear] 04/18/2014

US steel copy #10

5900499P

4/12/57



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 3

RECEIVED MAR 25 1957 UNITED CARBON CO. GEOLOGICAL DEPT.

16 Quadrangle Hatewan

Permit No. MIN-1099

WELL RECORD

Oil or Gas Well Gas

Company Carnegie Natural Gas Company  
Address 1015 Frick Building, Pittsburgh, Pa.  
Farm United States Steel Corp. Acres 1 1/2  
Location (waters)  
Well No. 13-1698 Elev. 1475.05  
District Magnolia County Mingo  
The surface of tract is owned in fee by United States Steel Corp. 525 Wm. Penn Place Pittsburgh, Pa.  
Mineral rights are owned by United States Steel Corp. 525 Wm. Penn Place Pittsburgh, Pa.

Table with columns: Casing and Tubing, Used In Drilling, Left In Well, Packers. Includes rows for 10-3/8", 8 1/2", and 8" casing sizes.

Drilling commenced November 12, 1950  
Drilling completed January 18, 1957  
Date Spool From To  
With  
Open Flow 10ths Water in inch  
10ths Merc. in inch  
Volume 21,500 cu. ft.  
Rock Pressure 640 lbs. 48 hrs.  
Oil  
WELL ABANDONED January 31, 1957, WCO (John M. Howell)  
WELL FRACURED

Table with columns: CASING CEMENTED, SIZE, No. Ft., Date. Includes notes on coal encountered at 200 feet and 170 feet.

ROCKS AFTER TREATMENT 128,000 cubic feet  
ROCK PRESSURE AFTER TREATMENT 625 in 7 days  
Rock Water From To Salt Water 1500, 1500 Feet 1500'

Large stratigraphic log table with columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Lists formations like Soil, Sand, Lime, Slate and Shells, Coal, Sand, and various shale types.



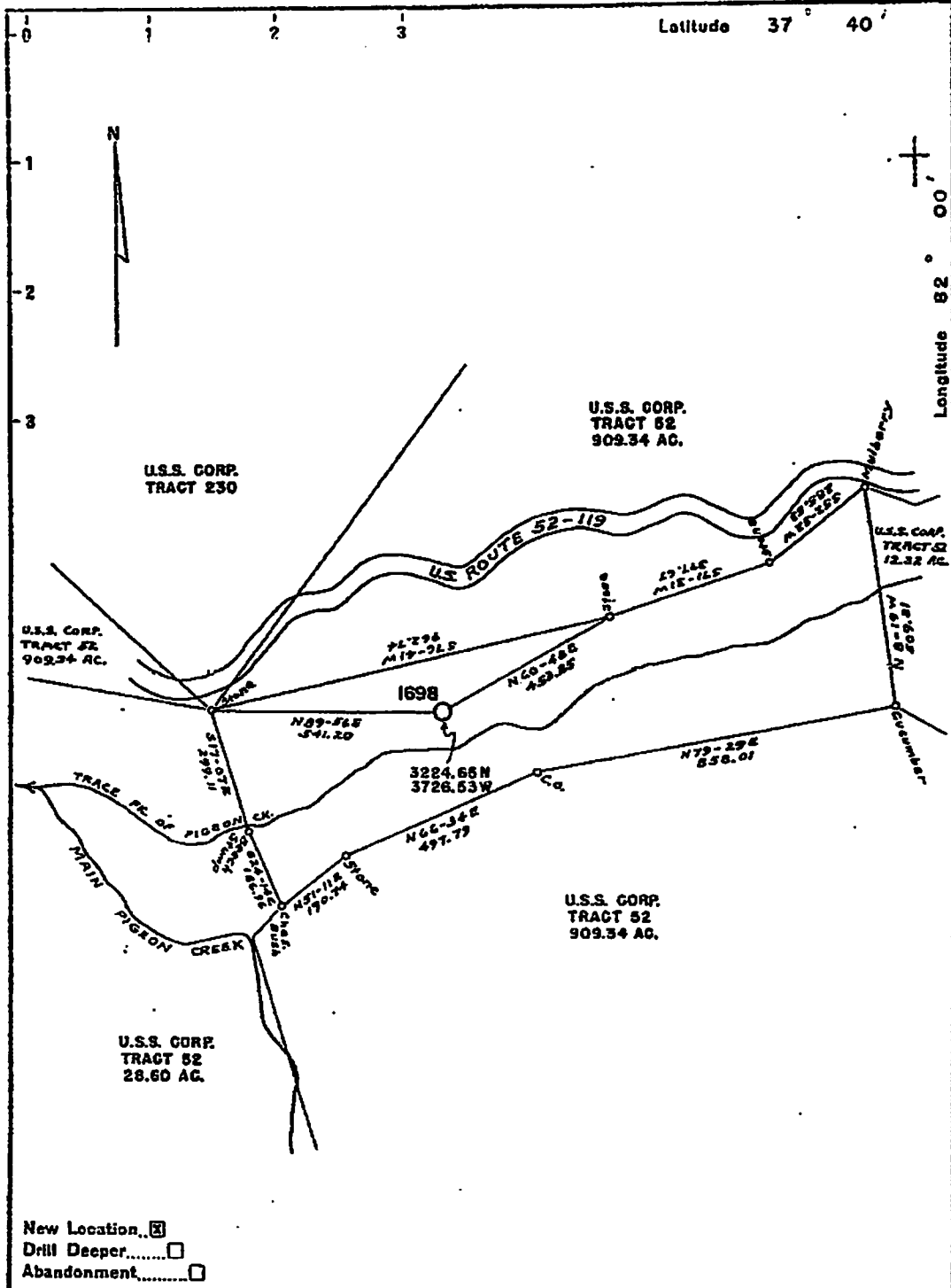
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Formation	Color	Hard or Soft	Top $\frac{3}{4}$	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand (broken)			839	862			
Sand			862	902			
Slate and Shells			902	916			
Sand			916	1000			
Slate and Shells			1000	1031			
Sand			1031	1124			
Slate and Shells			1124	1150			
Lime			1150	1165			
Sand			1165	1272			
Slate and Shells			1272	1300			
Sand			1300	1321			
Slate and Shells			1321	1400			
Sand			1400	1958	Water	1530'	1 bailer per hr.
Lime			1958	1978	Gas	1585'	Show
Red Rock			1978	1992	Water	1590'	Hole full
Lime (broken)			1992	2004			
Sand			2004	2024			
Slate and Shells			2024	2038			
Sandy Lime			2038	2130			
Slate and Shells			2130	2160			
Lime			2160	2199			
Sand			2199	2214			
Lime			2214	2245			
Red Rock			2245	2274			
Sandy Lime			2274	2305			
Red Rock			2305	2345			
Sand			2345	2365			
Lime (broken)			2365	2465			
Sand			2465	2563			
Slate and Shells			2563	2643			
Lime			2643	2670			
Sand			2670	2700			
Slate			2700	2725			
Lime			2725	3055	Gas	2993'	Smell
Red Sand			3055		Gas	3035'	21,060 cu. ft.
Total Depth				3063			
Filled up with cement to				3052			

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Date March 11 1967  
 APPROVED CARNEGIE NATURAL GAS COMPANY Owner  
 By [Signature] (Title) Land Agent  
 Department of Environmental Protection  
 MAR 18 2014  
 04/18/2014



New Location   
 Drill Deeper   
 Abandonment

Company <u>CARNEGIE NATURAL GAS</u>	
Address <u>1015 FRICK BLDG. PITTSBURGH 19, PA.</u>	
Farm <u>UNITED STATES STEEL CORPORATION</u>	
Tract <u>52</u>	Acres <u>14</u> Lease No. <u>17459</u>
Well (Farm) No. <u>13</u>	Serial No. <u>E-1698</u>
Elevation (Spirit Level) <u>1475.05'</u>	
Quadrangle <u>MATEWAN</u>	
County <u>MINGO</u>	District <u>MAGNOLIA</u>
Engineer <u>John C. Cook</u>	
Engineer's Registration No. <u>1850</u>	
File No. _____	Drawing No. _____
Date <u>10-29-56</u>	Scale <u>1" = 300'</u>

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

WELL LOCATION MAP

FILE NO. MIN-499

+ 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 border lines of original tracing.

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 MAR 28 2014  
 WV Department of  
 Environmental Protection  
 04/18/2014

WW-4-A  
Revised 6/07

- 1) Date: 3-26-14
- 2) Operator's Well Number  
656596 (USSC #13)
- 3) API Well No.: 47 059 - 00499  
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 Pocahontas Land Corporation ✓  
Address P.O. Box 1517  
Bluefield, WV 24701

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Jeremy James ✓  
Address P.O. Box 147  
Ona, WV 25545  
Telephone 304-951-2596

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name Pocahontas Land Corporation ✓  
P.O. Box 1517  
Address Bluefield, WV 24701

Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name Hampden Coal ✓  
Address P.O. Box 1389  
Gilbert, WV 25621

**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.



OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Pamela Sykes  
EQT Production  
PO Box 280  
Bridgeport, WV 26330  
My Commission Expires Aug. 24, 2022

Well Operator:  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_

25 day of March, 2014

Notary Public

My Commission Expires: 8-24-22

EQT Production Company  
Victoria J. Roark  
Permitting Supervisor  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

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West Virginia  
WV Department of  
Environmental Protection  
04/18/2014

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.



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Jeremy James  
P.O. Box 147  
Ona, WV 25545



**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

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**Pocahontas Land Corporation**  
**P.O. Box 1517**  
**Bluefield, WV 24701**  
 656596 & 506664 plug

PS Form 3800, August 2006 See Reverse for Instructions

Pocahontas Land Corporation  
P.O. Box 1517  
Bluefield, WV 24701  
656596 & 506664 plug

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  X  
 B. Received by (Printed Name) \_\_\_\_\_  
 C. Date of Delivery \_\_\_\_\_  
 D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

**COMPLETE THIS SECTION**

1. Article Addressed to:  
 Pocahontas Land Corporation  
 P.O. Box 1517  
 Bluefield, WV 24701  
 656596 & 506664 plug

2. Article Number (Transfer from service label)  
 7013 2630 0001 4239 3222

3. Service Type  
 Certified Mail  
 Registered Mail  
 Insured Mail  
 Priority Mail Express™  
 Return Receipt for Merchandise  
 Return Receipt for Delivery  
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)  
 Yes  No

PS Form 3811, July 2013 Domestic Return Receipt

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

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Hampden Coal  
P.O. Box 1389  
Gilbert, WV 25621  
656596 & 506664 plug

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7013 2630 0001 4239 3239  
7013 2630 0001 4239 3239

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Total Post	

Sent To  
 Street, Apt. or PO Box  
 City, State

**Hampden Coal**  
**P.O. Box 1389**  
**Gilbert, WV 25621**  
**656596 & 506664 plug**

PS Form 3800, August 2006 See Reverse for Instructions

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

**Hampden Coal**  
**P.O. Box 1389**  
**Gilbert, WV 25621**  
**656596 & 506664 plug**

2. Article Number  
 (Transfer from service label)  
 7013 2630 0001 4239 3239

3. Service Type  
 Certified Mail™  
 Priority Mail Express™  
 Registered Mail™  
 Return Receipt for Merchandise  
 Insured Mail™  
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

A. Signature  Agent  Addressee  
 B. Received by (Printed Name) \_\_\_\_\_  
 C. Date of Delivery \_\_\_\_\_

**COMPLETE THIS SECTION ON DELIVERY**

Domestic Return Receipt PS Form 3811, July 2013

04/18/2014

2) Operator's Well Number

656596 (USSC #13)

3) API Well No.: 47 059 - 00499

**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: Pigeon Creek Quadrangle: Barnabus 7.5'

Elevation: 1479' County: Mingo District: Magnolia

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.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

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

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 25 day of March, 2014

*Pamela Sykes* Notary Public  
My Commission Expires 8-24-22

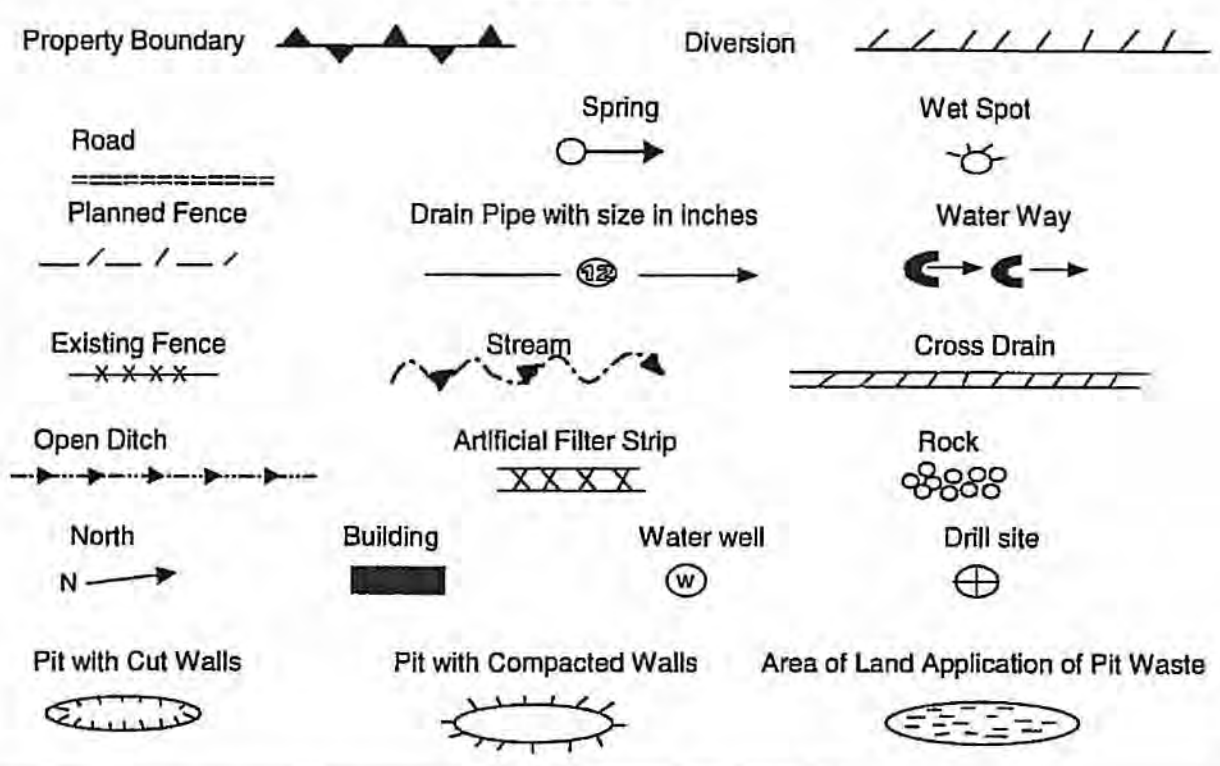
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MAR 28 2014

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STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Pamela Sykes  
EQT Production  
Bridgeport, WV 26330  
My Commission Expires Aug. 24, 2022

04/18/2014

**OPERATOR'S WELL NO.:**  
656596 (USSC #13)

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

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
KY-31	40	Orchard Grass	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: \_\_\_\_\_

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Office of Oil and Gas

APR 14 2014

Title: Inspector 006  
Field Reviewed?  Yes  No

Date: 4-7-14

WV Dept.  
Environment

Topo Quad: Barnabus 7.5'

Scale: 1" = 2000'

County: Mingo

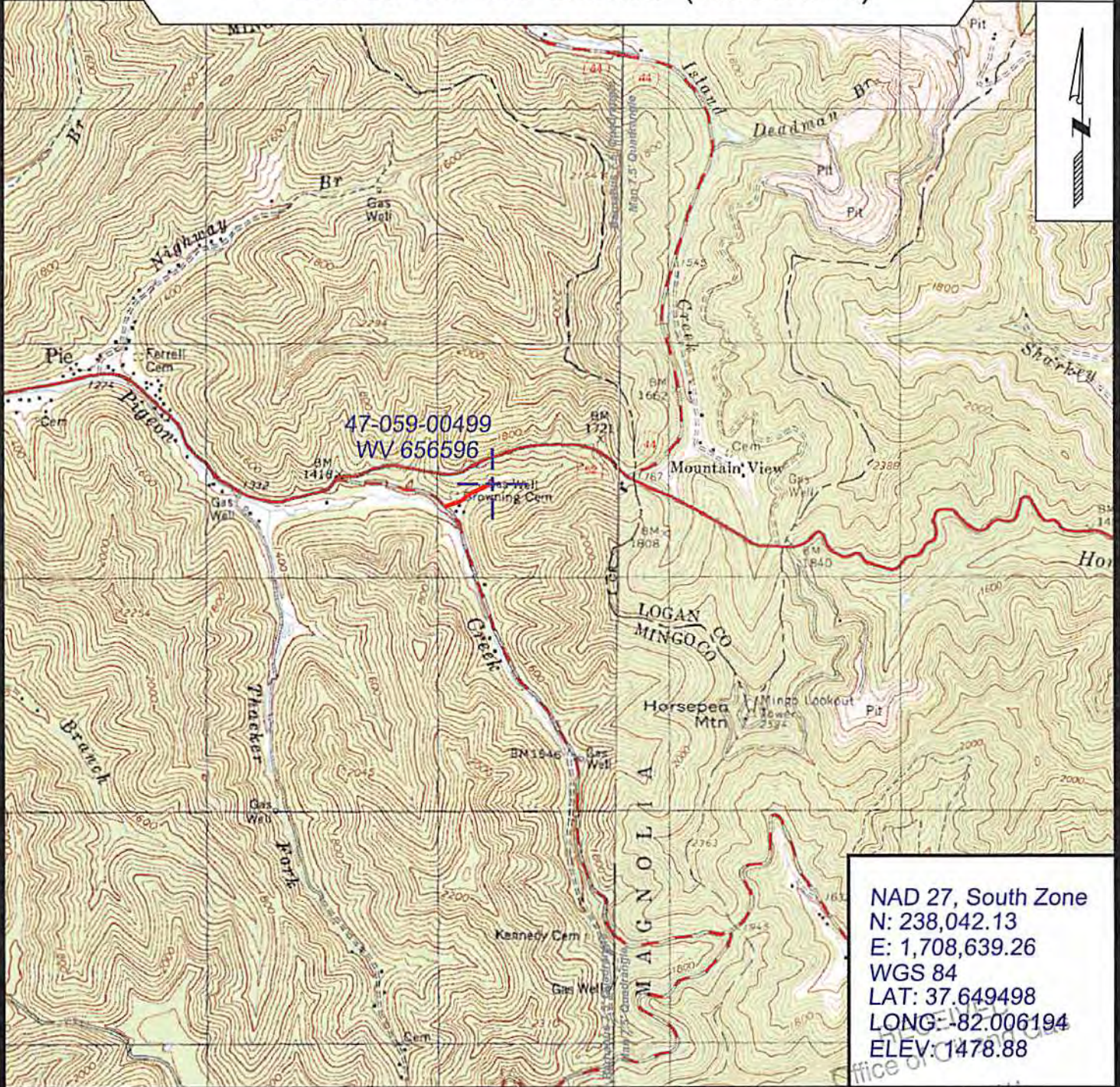
Date: March 18, 2014

District: Magnolia

Project No: 24-47-00-08

### 47-059-00499 WV 656596 (USSC #13)

Topo



47-059-00499  
WV 656596

NAD 27, South Zone  
 N: 238,042.13  
 E: 1,708,639.26  
 WGS 84  
 LAT: 37.649498  
 LONG: -82.006194  
 ELEV: 1478.88



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

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

MAR 28 2014  
 West Virginia Department of  
 Environmental Protection

WW-7  
3-19-14



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

API: 47-059-00499 WELL NO.: WV 656596 (USSC #13)

FARM NAME: United States Steel Corporation

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Mingo, DISTRICT: Magnolia

QUADRANGLE: Barnabus 7.5'

SURFACE OWNER: Pocahontas Land Company

ROYALTY OWNER: Penn Virginia Oil & Gas Corporation

UTM GPS NORTHING: 4167403.4

UTM GPS EASTING: 411238.9 GPS ELEVATION: 451 m (1479 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 North, 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 \_\_\_\_

4. 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.

Signature [Handwritten Signature]  
Date 3/24/14

Title PS # 2180

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04/18/2014



### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. USSC Well #13 WV 656596 (47-059-00499)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

\*Please note that the following information is subject to change upon field inspection.

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 560' +/- Owner: Pocahontas Land Company  
Address: PO Box 905820, Charlotte, NC 28290-5820 Phone No. \_\_\_\_\_  
Comments:

Site: 2 Spacing: 640' +/- Owner: Pocahontas Land Company  
Address: PO Box 905820, Charlotte, NC 28290-5820 Phone No. \_\_\_\_\_  
Comments:

Site: 3 Spacing: 570' +/- Owner: Pocahontas Land Company  
Address: PO Box 905820, Charlotte, NC 28290-5820 Phone No. \_\_\_\_\_  
Comments:

**BIRCH RIVER OFFICE**  
PO. Box 438 • 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

**CALDWELL OFFICE**  
212 Cumberland Street  
Caldwell, OH 43724  
phone: 740-305-5007  
fax: 740-305-5126

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

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04/18/2014



5900499A

Topo Quad: Barnabus 7.5'

Scale: 1" = 2000'

County: Mingo

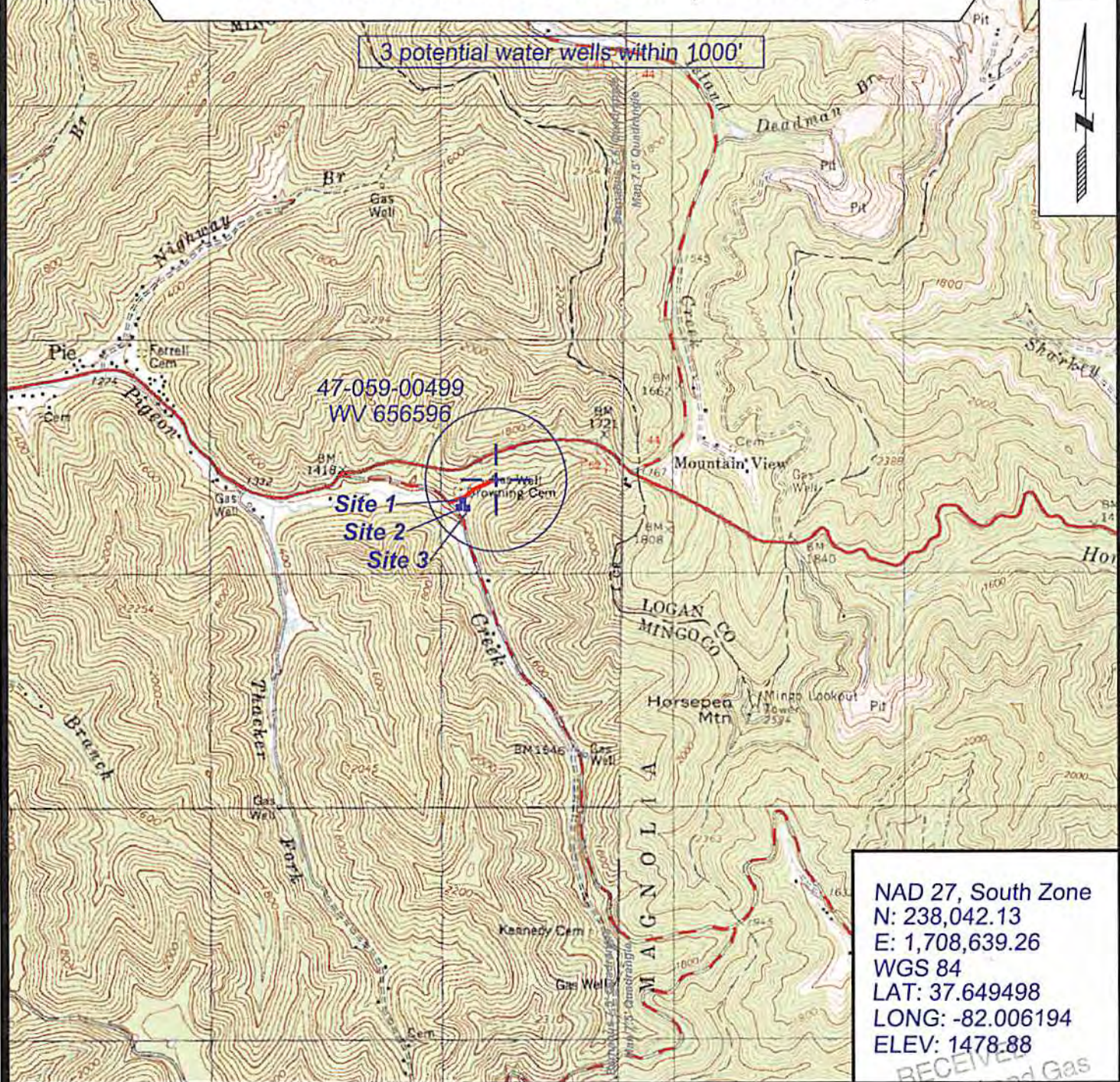
Date: March 18, 2014

District: Magnolia

Project No: 24-47-00-08

Water

# 47-059-00499 WV 656596 (USSC #13)



NAD 27, South Zone  
 N: 238,042.13  
 E: 1,708,639.26  
 WGS 84  
 LAT: 37.649498  
 LONG: -82.006194  
 ELEV: 1478.88



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

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

Office of Oil and Gas  
 WV Department of Environmental Protection  
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 MAY 15 2014  
 04/18/2014