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**west virginia** department of environmental protection

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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 27, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8100837, 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: 131521, A-52, GW-1995  
Farm Name: ROWLAND LAND CO., LTD.  
**API Well Number: 47-8100837**  
**Permit Type: Plugging**  
Date Issued: 06/27/2014

**Promoting a healthy environment.**

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

8100837A

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

Date: April 11, 2014  
Operator's Well \_\_\_\_\_  
Well No. 131521 Rowland ASZ  
API Well No.: 47 081 - 00837

CK 17284  
100

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: 2712 Watershed: Hazy Creek  
Location: Marsh Fork County: Raleigh Quadrangle: Pilot Knob  
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 Gary Kennedy  
Name: P.O. Box 268  
Address: Nimitz, WV 25978

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.**

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WV Department of  
Environmental Protection

*gn ok*

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 \_\_\_\_\_ Date \_\_\_\_\_

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

Date: April 11, 2014  
Operator's Well  
Well No. 131521  
API Well No.: 47 081 - 00837

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: 2712 Watershed: Hazy Creek  
Location: Marsh Fork County: Raleigh Quadrangle: Pilot Knob  
District:         

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

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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 *Gary Kennedy* Date 4/15/14

## PLUGGING PROGNOSIS

**Rowland Land Co."A" #52 (131521)**

Raleigh County, West Virginia  
 API # 47-081-00837  
 District: Marsh Fork

BY: Craig Duckworth  
 DATE: 3/19/13

**CURRENT STATUS:**

13 3/8" csg @ 78'  
 9 5/8" csg @ 1820' cts  
 7" csg @ 3801' cts  
 4 1/2" csg @ 7243'  
 2 3/8" tbg @ 3404'

**TD @ 7255' Plugged back to 3404' see part.plug affidavit**

Fresh Water @ 112'                      Salt Water @ 5700'  
 Salt Sand @ 1982'                      Coal @ 1025'-1028', 1130'-1133'

Gas shows @ none reported

Oil Shows @ none reported              Elevation @ 2712'

**Stimulation:** Maxon-Ravencliff (perforated 3010'-3392')

1. Notify State Inspector, Gary Kennedy 304-382-8402, and 24 hrs prior to commencing operations.
2. TOOH w/tbg to check conduction
3. TIH w/ tbg @ 3404'; Set 444' C1A Cement Plug @ 3404' to 2960' (Maxon-Ravencliff Perfs @ 3392'-3010')
4. TOOH w/ tbg @ 2960'; Gel hole @ 2960' to 1870' )
5. TOOH w/tbg Freepoint 4 1/2". Cut/shoot 4 1/2" at freepoint (freepoint approx. 1870')
6. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 4 1/2" cut. Do not omit any plugs.
7. TIH w/ tbg @ 1982'; Set 212' C1A Cement Plug @ 1982' to 1770' (4 1/2" cut & 9 5/8" @ 1820' & Salt Sand @ 1982')
8. TOOH w/ tbg @ 1770'; gel hole @ 1770' to 1183'
9. TOOH w/ tbg @ 1183'; Set 208' C1A Cement Plug @ 1183' to 975' (Coal 1133'-1130', 1028'-1025')
10. TOOH w/ tbg @ 975' gel hole @ 975' to 200'
11. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (FW @ 112' & Surface)
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

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OK QWM  
 6/26/14

8100837P

ROWLAND LAND CO. A-52

Details of original completion perforated intervals, fracturing or stimulating, physical ( nge, etc.:

- Lower Huron                      Perforated 5587-6347' (128 holes).  
Frac'd with 50,000# sand, 133 BLW, 725 MCF N<sub>2</sub>.
- Upper Devonian                      Perforated 4790-5370' (80 holes).  
Frac'd with 50,000# sand, 133 BLW, 738 MCF N<sub>2</sub>.
- Maxon-Ravencliff                      Perforated 3010-3392' (66 holes).  
Frac'd with 50,000# sand, 123 BLW, 980 MCF N<sub>2</sub>.

The work order for the manner of partially plugging this well was as follows:

- (1) Received verbal approval to partially plug well from Mike Lewis, WV Dept. of Energy, Oil and Gas Division.
- (2) Notified State Inspector, Rodney Dillon, of proposed work.
- (3) Moved in and rigged up Well Tech Rig #290 and Dowell Schlumberger cementing equipment.
- (4) Ran in hole with 2-3/8" tubing to 6350'. Mixed and pumped 70 sacks Class A cement (15.6 ppg, 1.18 cu ft/sk) down 2-3/8" tubing. Slurry volume = 14.7 bbl. Abandoned Lower Huron (5735-6347'; 128 holes) with cement plug from 6350' to 5404'.
- (5) Pulled out of hole with 2-3/8" tubing to 5372'. Mixed and pumped 55 sacks Class A cement (15.6 ppg, 1.18 cu ft/sk) down 2-3/8" tubing. Slurry volume = 11.6 bbl. Abandoned Gordon Sand and Upper Devonian Shale (4790-5370'; 80 holes) with cement plug from 5372' to 4628'.
- (6) Ran in hole with Baker 7" X 2-3/8" 3BB Model "K-1" cement retainer and 2-3/8" tubing. Set retainer at 3598'. Mixed and pumped 25 sacks Class A cement (15.6 ppg, 1.18 cu ft/sk) down 2-3/8" tubing. Slurry volume = 5.3 bbl. Pumped 20 sacks cement (4.2 bbl) through retainer. Pulled 2-3/8" tubing out of retainer. Pumped 5 sacks cement (1.1 bbl) on top of retainer.
- (7) Set 2-3/8" tubing at 3404'. Produced well from Maxon Sand (3386-3392'; 25 holes) and Ravencliff Sand (3010-3020'; 41 holes).

SEE ATTACHED LOG OF WELL

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ROWLAND LAND CO. A-52

Details of Perforated Intervals, Fracturing or Stimulating, Physical Change, Etc:

Lower Huron: Perforated 5587-6347 (128 Holes).  
 Frac'd W/50,000# Sand, 133 BLW, 726 MCFN<sub>2</sub>.

Upper Devonian: Perforated 4790-5370 (80 Holes).  
 Frac'd W/50,000# Sand, 133 BLW, 738 MCFN<sub>2</sub>.

Macon-Ravenclyff: Perforated 3010-3392 (66 Holes).  
 Frac'd W/50,000# Sand, 123 BLW, 980 MCFN<sub>2</sub>.

WELL LOG

<u>FORMATION</u>	<u>TOP (FT)</u>	<u>BOTTOM (FT)</u>
SAND	0	230
SILTSTONE	230	306
SAND	306	409
SILTSTONE	409	555
SAND	555	630
SILTSTONE	630	725
SAND	725	824
SILTSTONE	824	1025
COAL	1025	1036
SILTSTONE	1036	1130
COAL	1130	1136
SILTSTONE	1136	1182
SAND	1182	1280
SILTSTONE	1280	1300
SAND	1300	1316
SILTSTONE	1316	1403
SAND	1403	1434
SILTSTONE	1434	1520
SAND	1520	1584
SILTSTONE	1584	1654
SAND	1654	1692
SILTSTONE	1692	1730
SAND	1730	1759
SILTSTONE	1759	1982
SAND	1982	2028
SHALE	2028	2078
SILTSTONE	2078	2256
SAND	2256	2318
SILTSTONE	2318	2362
SAND	2362	2423
SILTSTONE	2423	2510
SAND	2510	2529
SHALE	2529	2561
SILTSTONE	2561	2850

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 DEPARTMENT OF ENERGY

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WV Department of  
 Environmental Protection

ROWLAND LAND CO. A-52

WELL LOG

<u>FORMATION</u>	<u>TOP (FT)</u>	<u>BOTTOM (FT)</u>
RAVENCLIFF	2850	3042
SILTSTONE	3042	3092
AVIS L.S.	3092	3128
SHALE	3128	3198
UPPER MAXTON	3198	3386
MIDDLE MAXTON	3386	3474
SILTSTONE	3474	3662
LITTLE LIME	3662	3758
BIG LIME	3758	4104
SILTSTONE	4104	4194
UPPER WEIR	4194	4248
LOWER WEIR	4248	4356
SHALE	4356	4586
SUNBURY	4586	4600
DEVONIAN SHALE	4600	4788
GORDON	4788	4801
DEVONIAN SHALE	4801	5694
LOWER HURON	5694	6348
JAVA	6348	6776
RHINESTREET	6776	7200
MARCELLUS	7200	7229

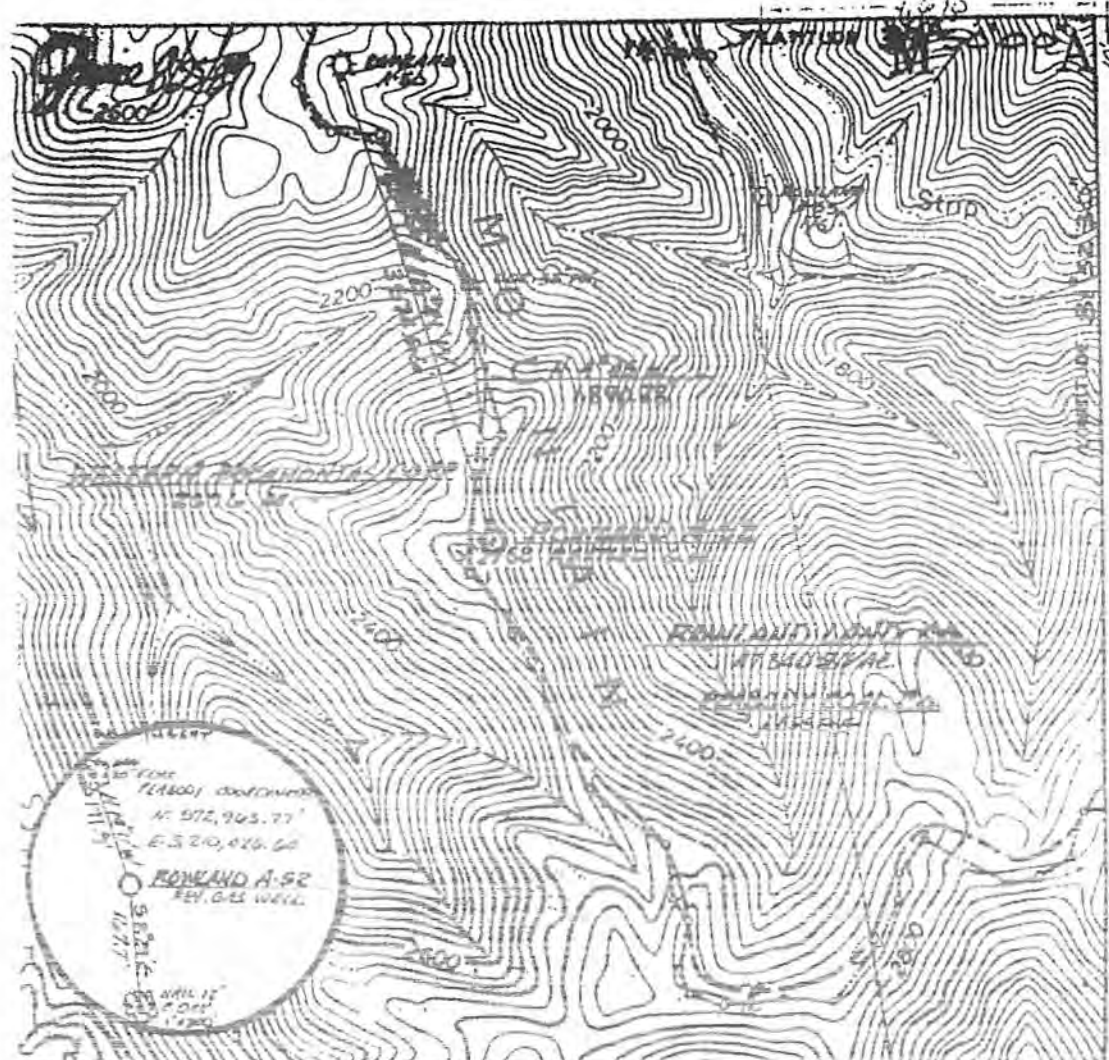
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FILE NO. BMS R-R  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION FE. CO. SL. 1996/97  
BEARBODY COAL CO. MONTICALLY DIV.

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAN 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 MINES

SIGNED: Kenneth D. Pinn  
 RPE ELS 537-50



• DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 ORN IV B  
 8781



DATE JUNE 14 1989  
 OPERATOR'S WELL NO. ROWLAND A-52 REV  
 API WELL NO. C.W. 16, 1998  
47 081  
 STATE W.V. PERMIT 0837-PP  
Revised

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE OIL \_\_\_ GAS X LIQ. INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 IF GAS PROD. ON X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION ELEVATION 2112.51' WATERSHED Hazy Creek - Marsh Fork - Big Coal River  
 DISTRICT MARSH FORK COUNTY RALEIGH  
 QUADRANGLE PILOT KNOR  
 REAL ESTATE OWNER ROWLAND LAND CO. ACREAGE Pl. 47,340.87  
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE \_\_\_  
 LEASE NO. WV-389  
 PROPOSED WORK DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDEVELOP \_\_\_ FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION. PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL SPECIFY \_\_\_\_\_

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PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR OXY USA Inc. DESIGNATED AGENT DELBERT G. OLIVER  
 ADDRESS P.O. BOX 873 ADDRESS P.O. BOX 873  
CHARLESTON, W.V. 25323 CHARLESTON, W.V. 25323

WV Department of Environmental Protection

81 00837A

WW-4-A  
Revised 6/07

1) Date: April 11, 2014  
2) Operator's Well Number 131521 Rowland A 52  
3) API Well No.: 47 081 - 00837  
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 Rowland Land Co LLC  
Address 405 Capitol St  
Suite 609  
Charleston, WV 25301  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Gary Kennedy  
Address P.O. Box 268  
Nimitz, WV 25978  
Telephone 304.382.8402

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Rowland Land Co LLC  
Address 405 Capitol St  
Suite 609  
Charleston, WV 25301  
(c) Coal Lessee with Declaration  
Name Performance Coal Co  
Address Alpha Natural Resources  
300 Running Right Road  
Julian WV 25521

**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:  
By Victoria J. Roark  
Its Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 9 day of April, 2014  
Pamela Sykes Notary Public  
My Commission Expires: 8-24-22

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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Rowland Land Co., LLC 45 Capitol St. Suite 609 Charleston, WV 25301		
Sent 7 Street or PO City, State, ZIP+4		
131521 Plugging		

Rowland Land Co., LLC  
Charleston, WV 25301

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

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature <b>X</b> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p>Rowland Land Co., LLC 45 Capitol St. Suite 609 Charleston, WV 25301</p> <p>131521 Plugging</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7013 2630 0001 4239 3462</p>			
PS Form 3811, July 2013		Domestic Return Receipt	

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Total		
Performance Coal Co Alpha Natural Resources 300 Running Right Road Julian, WV 25521		
Sent To		
Street, or PO Box		
City, State		

Performance Coal Co  
Alpha Natural Resources  
300 Running Right Road  
Julian, WV 25521

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

PS Form 3811, July 2013  
Domestic Return Receipt

2. Article Number (Transfer from service label)  
7013 2630 0001 4239 3499

1. Article Addressed to:  
Performance Coal Co  
Alpha Natural Resources  
300 Running Right Road  
Julian, WV 25521  
131521 Plugging

**SENDER: COMPLETE THIS SECTION**

■ 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.

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee

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: \_\_\_\_\_

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

4. Restricted Delivery? (Extra Fee)  Yes  No

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**EQT**

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

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Gary Kennedy  
P.O. Box 268  
Nimitz, WV 25978

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WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_

2) Operator's Well Number

**131521**

3) API Well No.: 47 081 - 00837

**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: Hazy Creek Quadrangle: Pilot Knob

Elevation: 2712 County: Raleigh District: Marsh Fork

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

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

9 day of April

2014

My Commission Expires

8-24-22

Notary Public

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Office of Oil and Gas

APR 11 2014

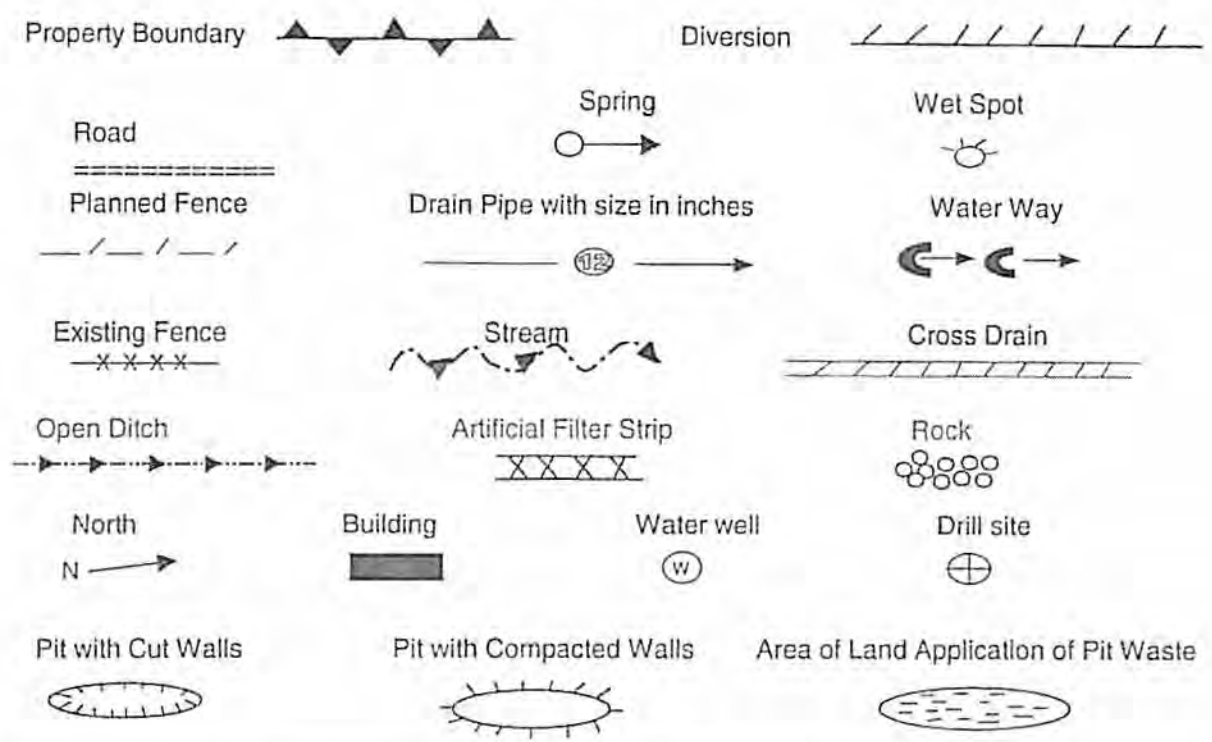
WV Department of  
Environmental Protection



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

OPERATOR'S WELL NO.:  
131521

**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: *Wm Kennedy*

Comments: \_\_\_\_\_

Title: *Inspector* Date: *4/12/07*  
Field Reviewed? Yes  No

Topo Quad: Pilot Knob 7.5'

Scale: 1" = 2000'

County: Raleigh

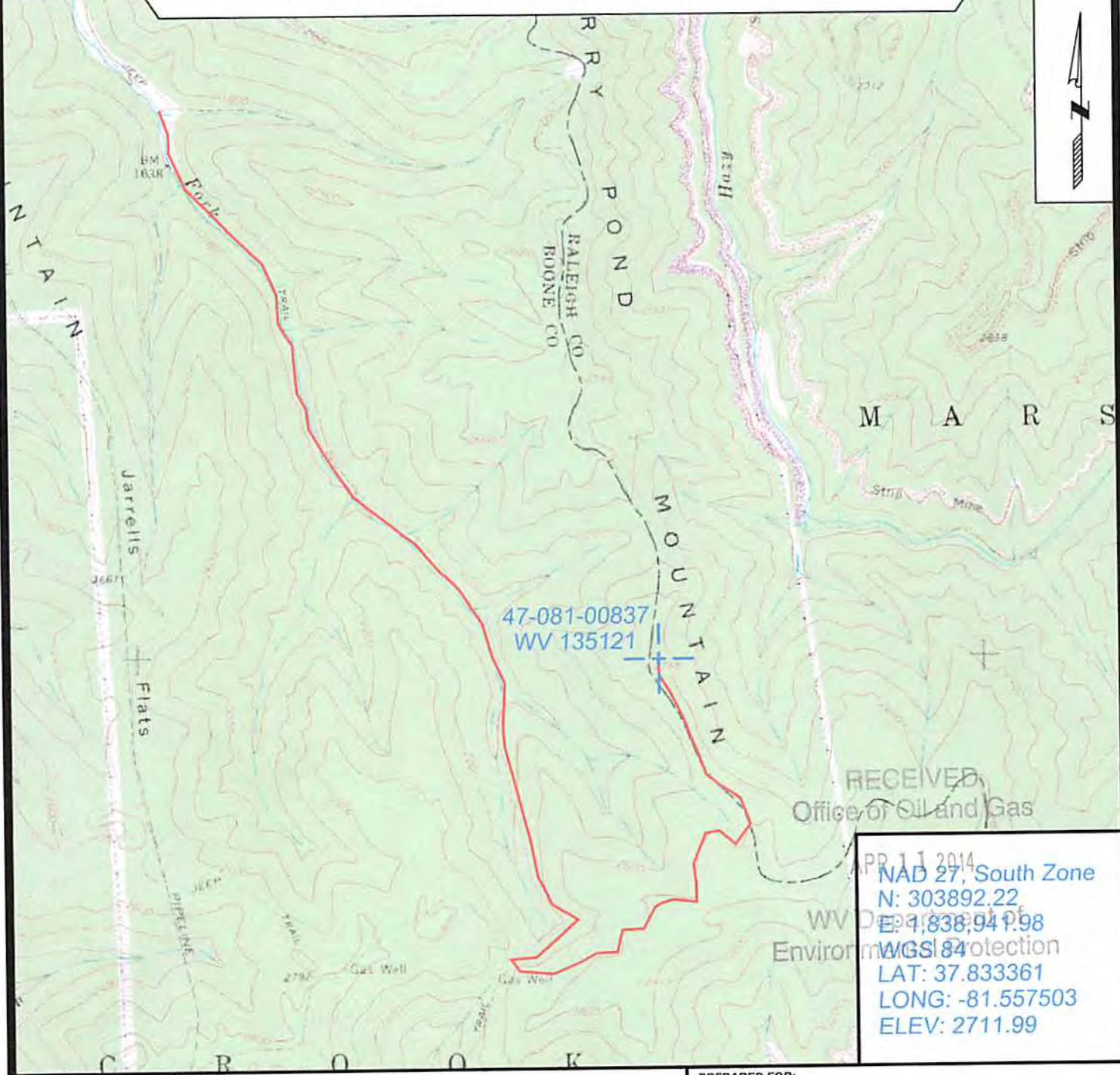
Date: March 21, 2014

District: Marsh Fork

Project No: 23-06-00-08

47-081-00837 WV 131521 (Rowland A 52)

Topo



APR 11 2014  
 NAD 27, South Zone  
 N: 303892.22  
 E: 1838941.98  
 WGS 84  
 LAT: 37.833361  
 LONG: -81.557503  
 ELEV: 2711.99



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



WW-7  
3-24-14



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

API: 47-081-00837 WELL NO.: WV 131521 (Rowland A 52)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh DISTRICT: Marsh Fork 2

QUADRANGLE: Pilot Knob 7.5' 547

SURFACE OWNER: Rowland Land Company, LLC

ROYALTY OWNER: Rowland Land Company, LLC, et al.

UTM GPS NORTHING: 4187473

UTM GPS EASTING: 450942 GPS ELEVATION: 826 m (2712 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:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. 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

Date

Title

RECEIVED  
Office of Oil and Gas

APR 11 2014

WV Department of  
Environmental Protection

81 00837P



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Rowland A 52 - WV 131521 - API No. 47-081-00837

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 131521.

RECEIVED  
Office of Oil and Gas

APR 11 2014

**BIRCH RIVER OFFICE**  
P.O. 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**  
P.O. Box 108 • 1013 Childress Road  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

Topo Quad: Pilot Knob 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: March 21, 2014

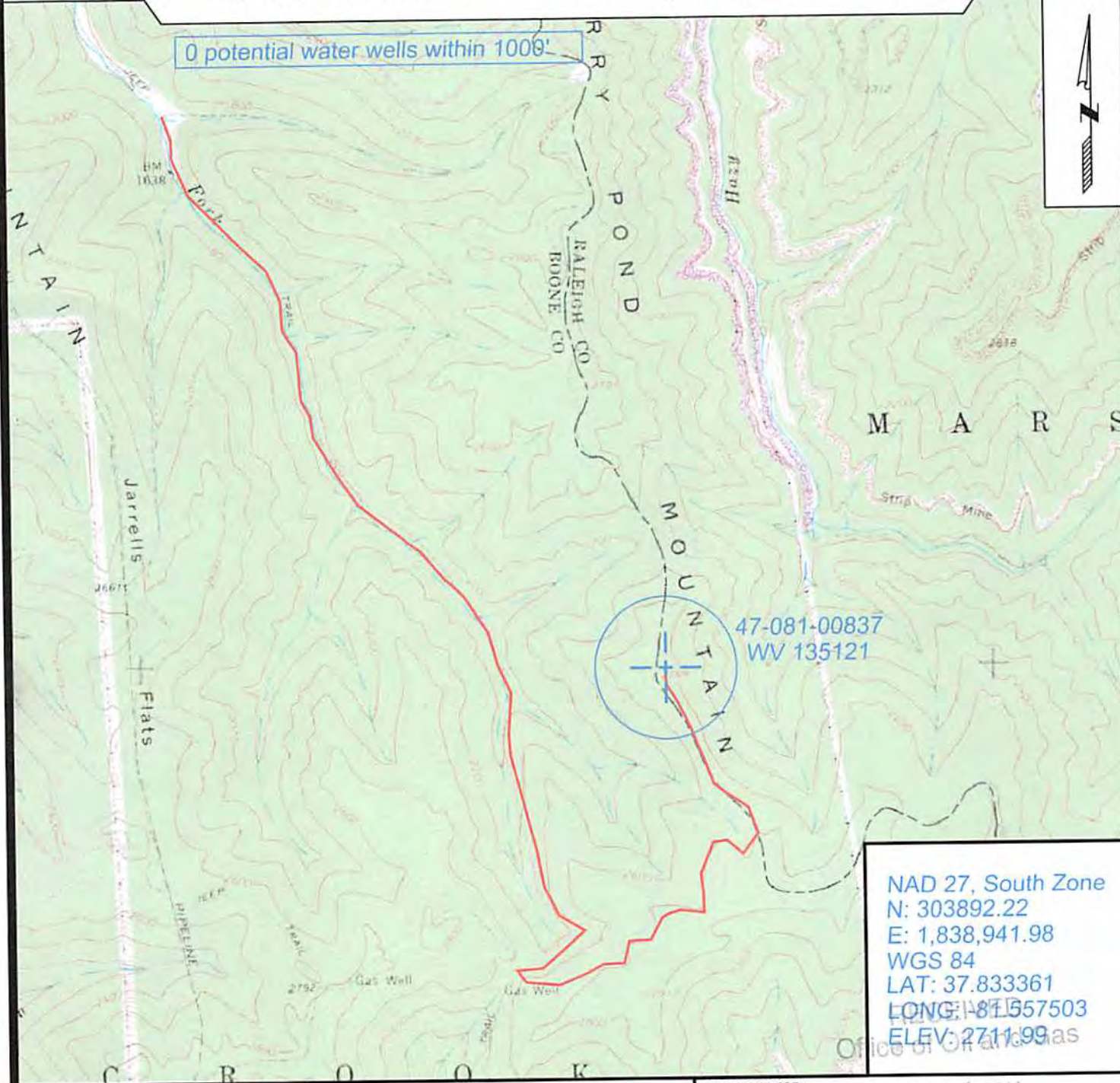
District: Marsh Fork

Project No: 23-06-00-08

Water

47-081-00837 WV 131521 (Rowland A 52)

0 potential water wells within 1000'



NAD 27, South Zone  
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 E: 1,838,941.98  
 WGS 84  
 LAT: 37.833361  
 LONG: -81.557503  
 ELEV: 2711.99

PREPARED FOR:

APR 11 2014

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