



**west virginia** department of environmental protection

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

June 27, 2014

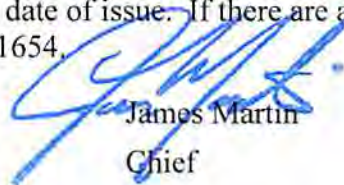
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8100963, 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: 109-S-144661  
Farm Name: ROWLAND LAND COMPANY  
**API Well Number: 47-8100963**  
**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.

8100963P

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

Date: 4.21.14  
Operator's Well \_\_\_\_\_  
Well No. 144661 Rowland A 109  
API Well No.: 47 081 - 00963

CK#17285  
# 100<sup>00</sup>

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: 2553 Watershed: Slip Ridge Branch  
Location: Clear Fork 1 County: Raleigh 81 Quadrangle: Dorothy 325  
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 25979

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.**

Received  
APR 22 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection

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

Date: 4-21-14  
Operator's Well  
Well No. 144681 Rowland A 109  
API Well No.: 47 081 - 00963

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: 2553 Watershed: Slip Ridge Branch  
Location: Clear Fork County: Raleigh Quadrangle: Dorothy  
District: \_\_\_\_\_
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place Address: 120 Professional Place  
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas Gary Kennedy 9) Plugging Contractor:  
Name: P.O. Box 268 Name: HydroCarbon Well Service  
Address: Nimitz, WV 25979 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

Gary Kennedy

Date 4/25/14

8100963P

PLUGGING PROGNOSIS

**Rowland Land Co." A " #109 (144661)**

Raleigh County, West Virginia  
API # 47-081-00963  
District: Clear Fork

BY: Craig Duckworth  
DATE: 3/19/13

**CURRENT STATUS:**

16" csg @ 40'  
8 5/8" csg @ 2130' cts  
4 1/2" csg @ 5931'  
2 3/8" tbg @ 5806'

**TD @ 6005'**

**Fresh Water @ 535'**                      **Salt Water @ none reported**  
**Salt Sand @ 1635'**                      **Coal @ 631'-628', 548'-545', 433', 364'-358', 207'**  
**Gas shows @ none reported**  
**Oil Shows @ none reported**                      **Elevation @ 2550'**  
**Stimulation:** L. Devonian (Perfs. 5857'-5505'), U. Devonian (Perfs. 5296'-5157')

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 @ 5857'; Set 402' C1A Cement Plug @ 5857' to 5455' (L.Devonian Perfs 5857'-5505')
4. TOOH w/ tbg @ 5455'; Gel hole @ 5455' to 5346'
5. TOOH w/ tbg @ 5346'; Set 239' C1A Cement Plug @ 5346' to 5107' (U.Devonian Perfs 5296'-5157')
6. TOOH w/ tbg @ 5107'; gel hole @ 5107' to 3497'
7. TOOH w/tbg Freepoint 4 1/2". Cut/shoot 4 1/2" at freepoint (freepoint approx. 3497')
8. 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.
9. TIH w/ tbg @ 3497'; Set 100' C1A Cement Plug @ 3497' to 3397' (4 1/2" cut)
10. TOOH w/ tbg @ 3397'; gel hole @ 3397' to 2180'
11. TOOH w/ tbg @ 2180'; Set 208' C1A Cement Plug @ 2180' to 2080' (8 5/8" @ 2130')
12. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 8 5/8" cut. Do not omit any plugs
13. TOOH w/ tbg @ 2080' gel hole @ 2080' to 1635'
14. TOOH w/ tbg @ 1635'; Set 100' C1A Cement Plug @ 1635' to 1535' (Salt Sand @ 1635')
15. TOOH w/ tbg @ 1535'; gel hole @ 1535' to 681'
16. TOOH w/ tbg @ 681'; Set 373' C1A Cement Plug @ 681' to 308' (Coal 631'-628', 548'-545', 433', 364'-358' FW @ 535')
17. TOOH w/ tbg @ 308'; gel hole @ 308' to 257'
18. TOOH w/ tbg @ 257'; Set 257' C1A Cement Plug @ 257' to 0' (Coal 207' Surface)
19. Top off as needed
20. Set Monument to WV-DEP Specifications
21. Reclaim Location & Road to WV-DEP Specifications.

Received

APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

OK  
3/26/14

WR-35  
Division of Environmental Protection  
Permitting  
Office of Oil & Gas  
AUG 29 94

29-Sep-93  
API # 47-081-00963

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

Well Operator's Report of Well Work

Farm Name: ROWLAND LAND COMPANY Operator Well No.: 109-S-144661

Location: Elevation: 2,550.80 Quadrangle: DOROTHY

District: CLEAR FORK County: RALEIGH  
Latitude: 2300 Feet South of 37 Deg. 55 Min. Sec.  
Longitude: 5800 Feet West of 81 Deg. 25 Min. Sec.

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, AT-6  
ASHLAND, KY 41114-0391

Agent: B. E. Widener

Inspector: RODNEY DILLON  
Permit Issued: 10-08-93  
Well Work Commenced: 12-23-93  
Well Work Completed: 07-18-94  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 6005  
Fresh water depths (ft) Damp 535

Salt water depths (ft) \_\_\_\_\_  
Sand 11635'

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 207, 358-364, 433, 545-548  
828-631

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	40'	40'	11.8
8 1/2"	2130'	2130'	654
4 1/2"	5931'	5931'	516
2 1/2"	5806'	5806'	

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OPEN FLOW DATA

Office of Oil and Gas  
WV Dept. of Environmental Protection

Producing formation Devonian Shale Pay zone depth (ft) 5157-5857  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow -- Bbl/d  
Final open flow 298 MCF/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static Rock Pressure 490 psig (surface pressure) after 72 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 FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Ashland Exploration, Inc.  
By: James L. Stephens James L. Stephens, Eng. Tech.  
Date: 7/26/94

*Handwritten signature/initials*

RAL-963

<u>Formation or Rock Type</u>	<u>Ton</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	2161
Pennington	2161	3083
Princeton	2329	2319
M. Maxton	2707	2755
L. Maxton	3001	3069
Little Lime	3083	3187
Big Lime	3187	3507
Borden	3507	3989
M. Weir	3623	3699
Sunbury Shale	4085	4102
Berea	4102	4135
Devonian Shale	4102	T.D.
Gordon	4291	4313

Drillers TD 6005  
 Loggers TD 5946  
 85/8 cmt'd to surface on primary job.

Perf L. Devonian using 3 1/2" HCG .39 jets 1 spf @ 5857, 5837, 5827, 5825, 6791, 5768, 5720, 5713, 5670, 5657, 5653, 5645, 5579, 5539, 5537, 5518, 5505, 17 holes total. Pump 300 gal 8% HCl-Fe acid, 90-75Q FF L. Devonian using 123,400# 20/40 sand, 822,000 scf N<sub>2</sub> @ 24000, 27000, 25500, 24300 scf/min. BD 2562, ATP 3650, ATR 34 BPM, MTP 3916, ISIP 2576, TF 200 Bbls.

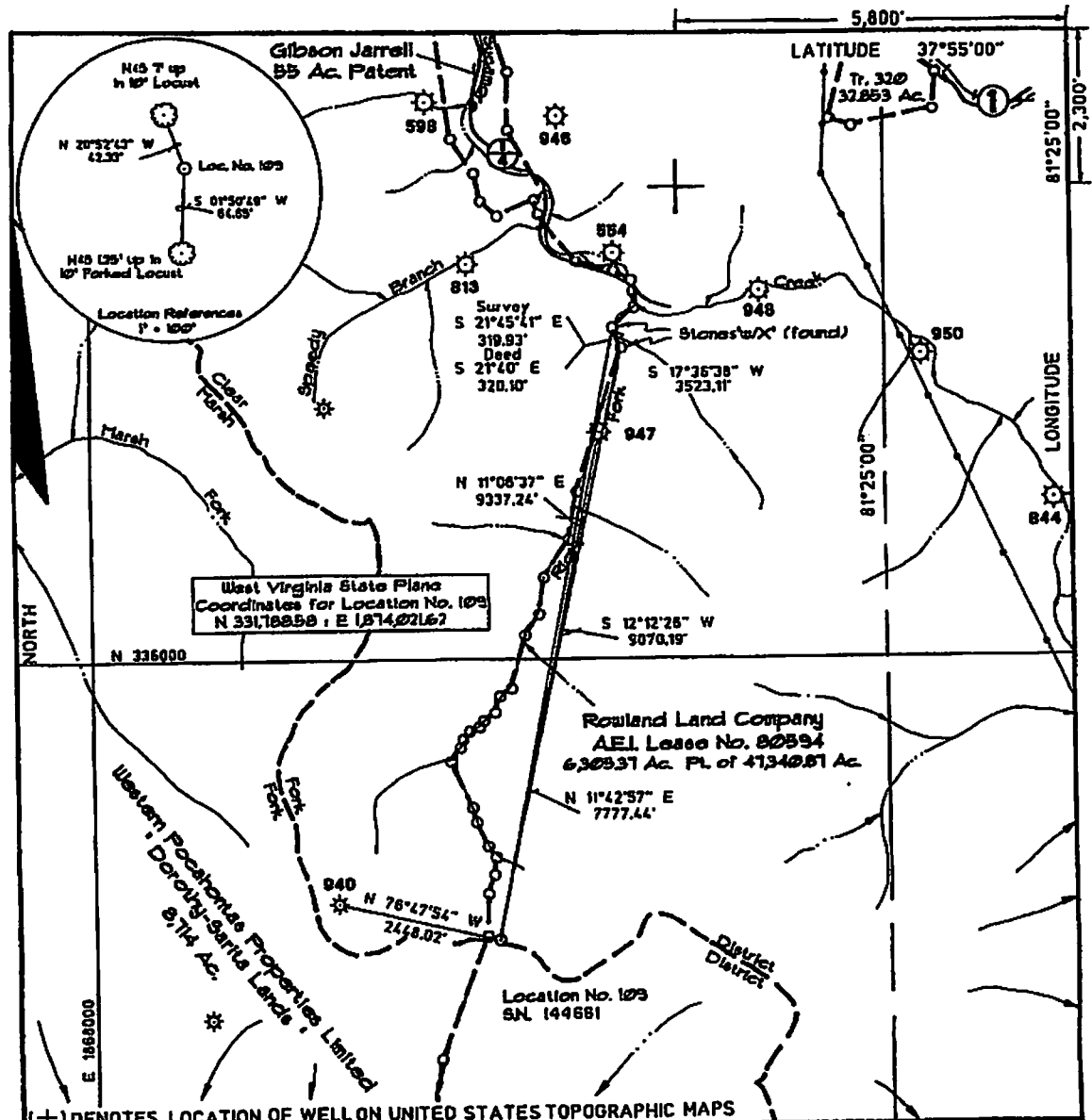
Perf U. Dev. using 3 1/2" HCG .39 jets sf 1 spf @ 5296, 5290, 5285, 5283, 5271, 5267, 5260, 5241, 5231, 5221, 5212, 5196, 5194, 5188, 5181, 5174, 5172, 5157 (18 holes total). Pump 500 gal 8% HCl-Fe acid, 90-75Q FF U. Dev. using 103,900# 20/40 sand, 790,000 scf N<sub>2</sub> @ 24400, 29100, 27400, 21600 scf/min. BD @ 2537, ATP 3850 @ 34 BPM foam, MTP 4208, ISIP 3832, TF 182 Bbl.

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APR 22 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection

3100963P



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1:45086  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM 1 UE-1044.1'  
 Elev. 1244.651

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) *Ronald L. Eastman*  
 R.P.E. \_\_\_\_\_ L.L.S. 50



**STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION**

DATE June 22 19 93  
 OPERATOR'S WELL NO. Rouland Land Co. #109  
 API WELL NO. SN 144661

**47-081-0963**  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 2990.81 WATER SHED Right Fork of Sycamore Creek of Clear Fork of Big Coal River  
 DISTRICT Clear Fork COUNTY Raleigh  
 QUADRANGLE Dorothy

SURFACE OWNER Rouland Land Company, Ltd. ACREAGE 6,308.37  
 OIL & GAS ROYALTY OWNER Rouland Land Company, Ltd. LEASE ACREAGE 41,340.87

LEASE NO. 80594  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET INFORMATION Devonian Shale ESTIMATED DEPTH 6000' KB  
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT A. Ray Chandler  
 ADDRESS P.O. Box 391 ADDRESS Rt. 6 Box 118  
Ashland, Ky. 41114 Charleston, W.V. 25311

Received

APR 22 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection



8100963A

WW-4-A  
Revised 6/07

1) Date: 4-21-14  
2) Operator's Well Number  
144661 Rowland A 109  
3) API Well No.: 47 081 - 00963  
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 Company 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 25979  
Telephone 304.382.8402

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Rowland Land Company LLC  
405 Capitol St  
Address Suite 609  
Charleston, WV 25301  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name Performance Coal Company  
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.



Well Operator: EQT Production Company  
By: Victoria J. Roark  
Title: Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076  
Subscribed and sworn before me this 21 day of April, 2014  
My Commission Expires: 8-24-22 Notary Public

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).

APR 22 2014

84 00963 P



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

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



ZIP 26330  
041L10228892

neopost  
04/21/2014  
FIRST-CLASS MAIL  
**US POSTAGE**  
**\$02.24**

Received

APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

8100963A

FIRST-CLASS MAIL  
\$08.03  
ZIP 26330  
041110228692

neopost  
04/21/2014  
US POSTAGE

Rowland Land Company LLC  
Capitol St  
Suite 609  
Charleston, WV 25301

U.S. Postal Service™  
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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total Postage: Rowland Land Company LLC  
405 Capitol St  
Suite 609  
Charleston, WV 25301  
131351 & 144661 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

Received

APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

- 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.

1. Article Addressed to:  
Rowland Land Company LLC  
405 Capitol St  
Suite 609  
Charleston, WV 25301  
131351 & 144661 Plugging

**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:

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

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7013 2630 0001 4239 3390

PS Form 3811, July 2013 Domestic Return Receipt

7013 2630 0001 4239 3390  
7013 2630 0001 4239 3390

EQT  
PO Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

8100963A

04201001  
306039

Performance Coal Co  
Natural Resources  
300 Running Right Road  
WV 25521

**U.S. Postal Service™**  
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*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE



7013 2630 0001 4239 3406  
7013 2630 0001 4239 3406

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement)	

Postmark  
Here

Total Postage

**Sent To**  
 Performance Coal Co  
 Alpha Natural Resources  
 300 Running Right Road  
 Julian WV 25521  
 Street, Apt. No. or PO Box No. 131351 & 144661 Plugging  
 City, State, Zip

PS Form 3800, August 2006 See Reverse for Instructions

- 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.

1. Article Addressed to:

Performance Coal Co  
 Alpha Natural Resources  
 300 Running Right Road  
 Julian WV 25521  
 131351 & 144661 Plugging

2. Article Number  
 (Transfer from service label)

Received

APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

**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  
 If YES, enter delivery address below:  No

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

4. Restricted Delivery? (Extra Fee)  Yes

7013 2630 0001 4239 3406

**QT**  
Vicki Roark  
Box 280  
Edgeport, WV 26330

8100963 P

WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
144661 Rowland A 109  
3) API Well No.: 47 081 - 00963

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: Slip Ridge Branch Quadrangle: Dorothy  
Elevation: 2553 County: Raleigh District: Clear 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.? 20 10 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? \_\_\_\_\_

Received

Will closed loop system be used? \_\_\_\_\_ APR 22 2014

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? \_\_\_\_\_

Office of Oil and Gas  
WV Dept. of Environmental Protection

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.

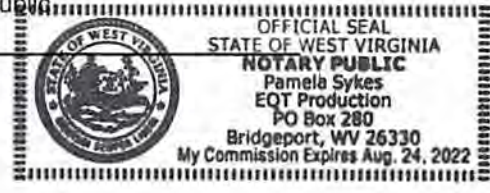
Company Official Signature \_\_\_\_\_

Company Official (Typed or Printed) Victoria Roark \_\_\_\_\_

Company Official Title Permitting Supervisor-WV \_\_\_\_\_

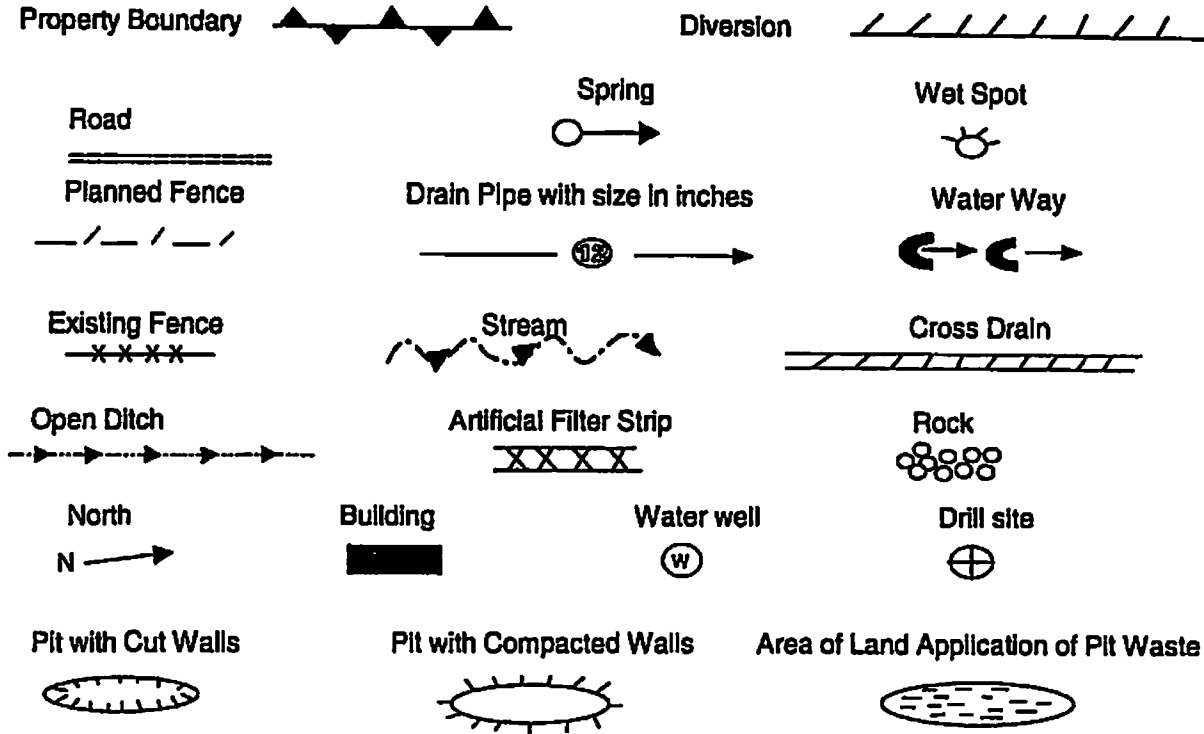
Subscribed and sworn before me this 21 day of April, 2014

[Signature] \_\_\_\_\_ Notary Public  
My Commission Expires 8-24-22



**OPERATOR'S WELL NO.:**  
**144661 Rowland A 109**

**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: *Henry Kennedy*

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

Title: *Luspectos* Date: \_\_\_\_\_

Field Reviewed? Yes  No

8100963P

Topo Quad: Dorothy 7.5'

Scale: 1" = 2000'

County: Raleigh

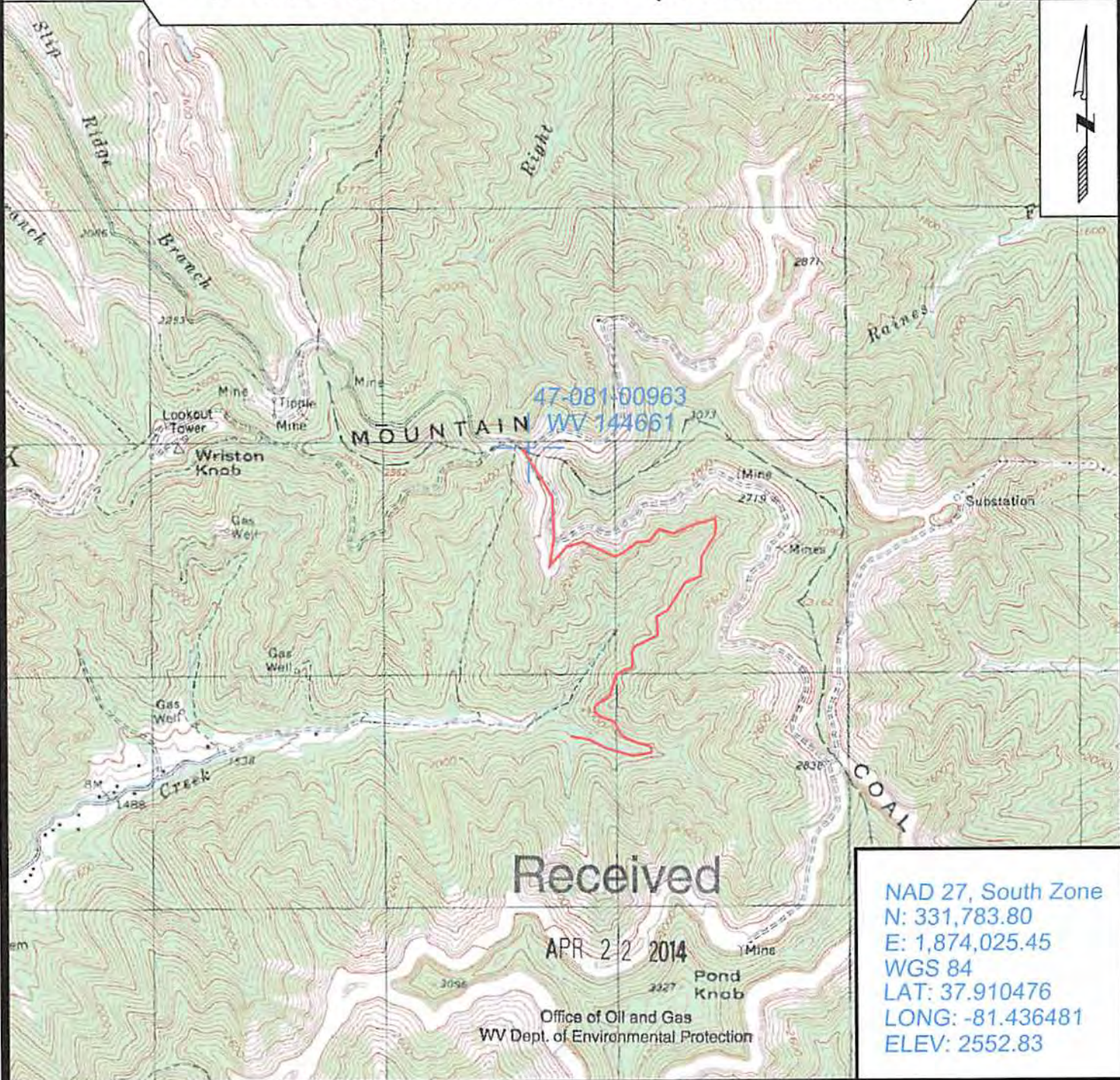
Date: March 7, 2014

District: Clear Fork

Project No: 23-06-00-08

47-081-00963 WV 144661 (Rowland A 109)

Topo



Received

APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

NAD 27, South Zone  
N: 331,783.80  
E: 1,874,025.45  
WGS 84  
LAT: 37.910476  
LONG: -81.436481  
ELEV: 2552.83



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

WW-7  
8-30-06



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

API: 47-081-00963 WELL NO.: WV 144661 (Rowland A 109)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh 81 DISTRICT: Clear Fork 1

QUADRANGLE: Dorothy 7.5' 325

SURFACE OWNER: Rowland Land Company, LLC

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

UTM GPS NORTHING: 4195972

UTM GPS EASTING: 461632 GPS ELEVATION: 778 m (2553 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]  
Signature  
4/14/14  
Date

PS# 2180  
Title

Received

APR 22 2014



8100963P



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Rowland A 109 - WV 144661 - API No. 47-081-00963

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 144661.

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APR 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

**BIRCH RIVER OFFICE**  
P.O. Box 438 • 237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
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**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 • 1413 Childress Road  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

8100963P

Topo Quad: Dorothy 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: March 7, 2014

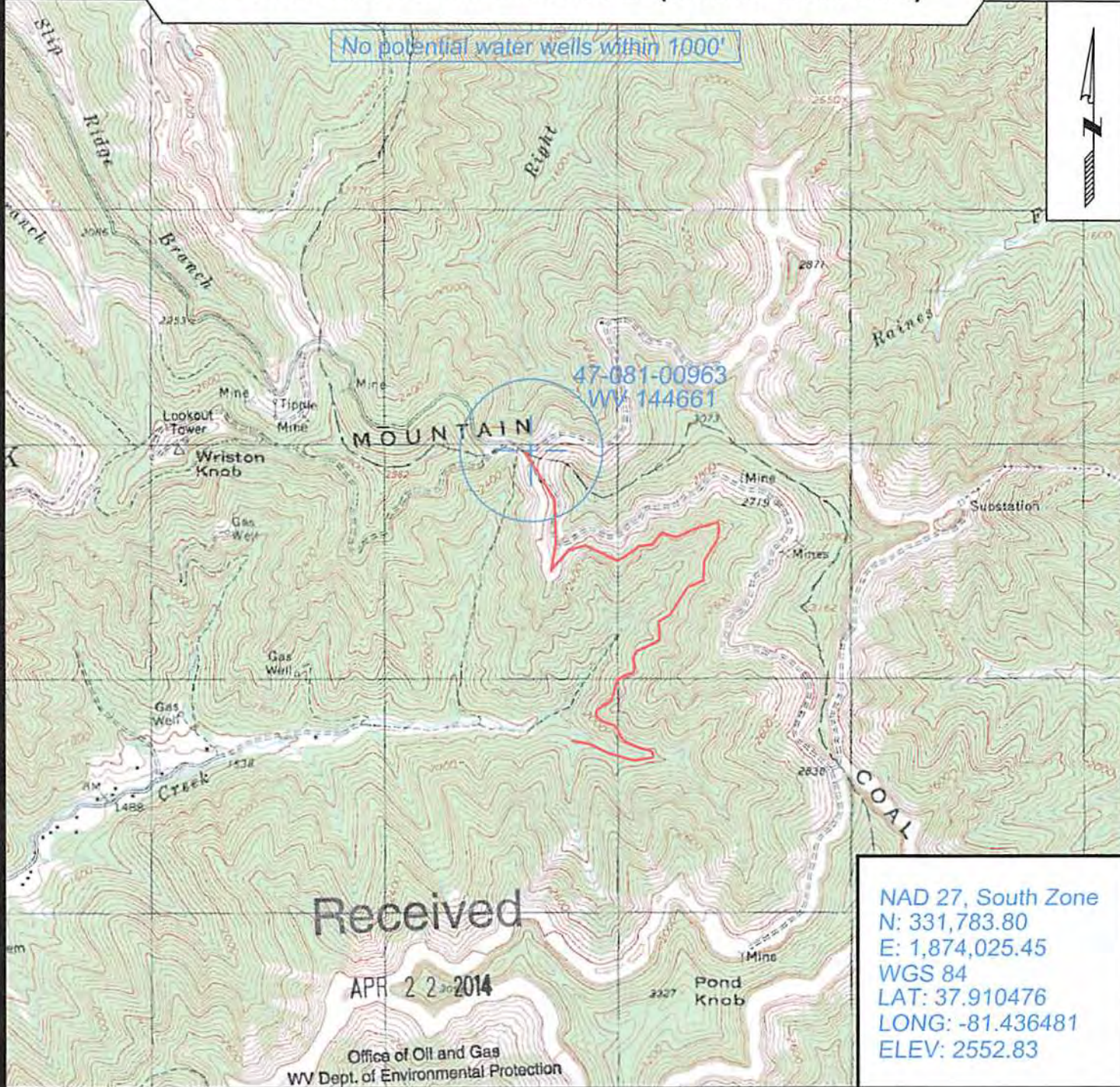
District: Clear Fork

Project No: 23-06-00-08

Water

47-081-00963 WV 144661 (Rowland A 109)

No potential water wells within 1000'



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