



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

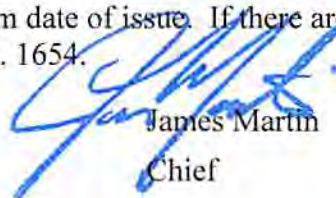
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100750, 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: 131351 ROWLAND 13
Farm Name: ROWLAND LAND CO.
API Well Number: 47-8100750
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

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.

8100750P

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

Date: 4-21-14
Operator's Well _____
Well No. 131351 Rowland B 13
API Well No.: 47 081 - 00750

ck# 17285
#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: 1409 Watershed: Marsh Fork
Location: Marsh Fork 2 County: Raleigh 41 Quadrangle: Pilot Knob 547
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.

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. 131351 Rowland B 13
API Well No.: 47 081 - 00750

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 Liquid Injection Waste Disposal:
If Gas, Production Or Underground storage Deep Shallow

5) Elevation: 1409 Watershed: Marsh Fork
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

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10) Work Order: The work order for the manner of plugging this well is as follows:
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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 5/7/14

PLUGGING PROGNOSIS

Rowland Land Co."B" #13 (131351)

Raleigh County, West Virginia

API # 47-081-00750

District: Marsh Fork

BY: Craig Duckworth

DATE: 3/5/13

CURRENT STATUS:

9 5/8" csg @ 896' (365sks) cts

7" csg @ 2379' (175sks) cts

4 1/2" csg @ 5890' (260sks)

TD @ 5900'

Fresh Water @ 50'

Salt Water @ 500'

Salt Sand @ 1508'

Coal @ none reported

Gas shows @ none reported

Oil Shows @ none reported

Elevation @ 1414'

Stimulation: Devonian Shale (Perfs 5862'-5226', 5070'-4462', 4415'-4175', 3457'-3453')
Lower Weir (Perfs 2982'-2957')

1. Notify State Inspector, Gary Kennedy 304-382-8402, and 24 hrs prior to commencing operations.
2. TIH w/ tbg @ 5890'; Set 714' C1A Cement Plug @ 5890' to 5176' (Devonian Shale Perfs @ 5862'-5226')
3. TOOH w/ tbg @ 5226'; Gel hole @ 5226' to 5120'
4. TOOH w/ tbg @ 5120'; Set 995' C1A Cement Plug @ 5120' to 4125' (Devonian Shale Perfs @ 5070'-4462', 4415'-4175')
5. TOOH w/ tbg @ 4125'; Gel hole @ 4125' to 3507'
6. TOOH w/ tbg @ 3507'; Set 107' C1A Cement Plug @ 3507' to 3400' (Devonian Shale Perfs @ 3457'-3453')
7. TOOH w/ tbg @ 3400'; gel hole @ 3400' to 3032'
8. TOOH w/ tbg @ 3032'; Set 100' C1A Cement Plug @ 3032' to 2907' (Lower Weir Perfs @ 2982'-2957')
9. TOOH w/ tbg @ 2907'; gel hole @ 2907' to 2429'
10. TOOH w/tbg Freepoint 4 1/2". Cut/shoot 4 1/2" at freepoint (freepoint approx. 2379')
11. 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.
12. TIH w/ tbg @ 2429'; Set 100' C1A Cement Plug @ 2429' to 2329' (4 1/2" cut & 7" @ 2379')
13. TOOH w/ tbg @ 2329'; gel hole @ 2329' to 1508'
14. TOOH w/ tbg @ 1508'; Set 100' C1A Cement Plug @ 1508' to 1408' (Salt Sand @ 1508')
15. TOOH w/ tbg @ 1408'; gel hole @ 1408' to 946'
16. TOOH w/ tbg @ 946'; Set 100' C1A Cement Plug @ 946' to 846' (9 5/8" @ 896')
17. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 9 5/8". Do not omit any plugs.
18. TOOH w/ tbg @ 846'; gel hole @ 846' to 550'

Received

APR 22 2014

OK
g.w.m.
4/26/14

OK
2/2/14

19. TOOH w/ tbg @ 550'; Set 100' CIA Cement Plug @ 550' to 450' (Salt Water @ 500')
20. TOOH w/ tbg @ 450'; gel hole @ 450' to 200'
21. TOOH w/ tbg @ 200'; Set 200' CIA Cement Plug @ 200' to 0' (FW @ 50' & Surface)
22. Top off as needed
23. Set Monument to WV-DEP Specifications
24. Reclaim Location & Road to WV-DEP Specifications

Received

APR 22 2014

8100750 P



IV-35 (Rev 8-81)

RECEIVED
AUG 11 1987

State of West Virginia
Department of Mines
Oil and Gas Division

Date April 6, 1987
Operator's Well No. Rowland 13
Farm Rowland Land Co
API No. 47 - 081 - 0750

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow)

LOCATION: Elevation: 1414 Watershed Marsh Fork
District: Marsh Fork County Raleigh Quadrangle Pilot Knob 7.5

COMPANY Allegheny & Western Energy Corp
ADDRESS P.O. Box 2587, Charleston, W.Va., 25329
DESIGNATED AGENT Dennis L. Mann
ADDRESS P.O. Box 2587, Charleston, W.Va., 25329
SURFACE OWNER Rowland Land Co
ADDRESS 1033 Quarrier ST, Charleston, W.Va
MINERAL RIGHTS OWNER Same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Rodney P.O. Box 1526
Dillon ADDRESS Sophia, W.Va
PERMIT ISSUED 12/4/86
DRILLING COMMENCED 12/21/86
DRILLING COMPLETED 1/7/87

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	64	64	150 sks
9 5/8"	896	896	375 sks
8 5/8"			
7"	2379	2379	175 sks
5 1/2"			
4 1/2"	5890	5890	260 sks
3"			
2"			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5300 feet
Depth of completed well 5900 feet Rotary / Cable Tools _____
Water strata depth: Fresh 50 feet; Salt 500 feet
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Lower Weir Pay zone depth 2957 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow 201 Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 800 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

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Second producing formation Devonian Shale Pay zone depth 3453 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow 550 Mcf/d Oil: Final open flow _____ Ebl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 800 psig (surface measurement) after 24 hours shut in

APR 22 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

(Continue on reverse side)

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2957-2982 perf w/ 21 holes frac w/ 45,000# 20/50 sd + 1,000 gal 15% acid + 635,000 scf n2
 3453-3457 perf w/ 9 holes frac w/ 30,000# 20/50 sd + 500 gal 15% acid + 290,000 scf n2
 4175-4415 perf w/ 15 holes frac w/ 45,000# 20/50 sd + 1,000 gal 15% acid + 1,015,000 scf n2
 4462-5070 perf w/ 24 holes frac w/ 45,000# 20/50 sd + 1,000 gal 15% acid + 1,054,000 scf n2
 5226-5862 perf w/ 19 holes frac w/ 45,000# 20/50 sd + 1,000 gal 15% acid + 1,200,000 scf n2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
shale & sand			0	1508	<p style="text-align: center;">RECEIVED AUG 11 1987</p> <p style="text-align: center;">DIVISION OF OIL & GAS DEPARTMENT OF ENERGY</p> <p style="text-align: center;">TD 5900 KB</p> <p style="text-align: center;">Received</p> <p style="text-align: center;">APR 22 2014</p> <p style="text-align: center;">Office of Oil and Gas WV Dept. of Environmental Protection</p>
salt sand			1508	1632	
shale			1632	1689	
salt sand			1689	1852	
shale & sand			1852	2324	
little lime			2324	2384	
slate & lime			2384	2419	
big lime			2419	2772	
shale			2772	2845	
upper weir			2845	2897	
shale			2897	2927	
lower weir			2927	2990	
shale			2990	3238	
sunbury shale			3238	3252	
sandy siltstone & shale			3252	3454	
gordon			3454	3468	
gray & brown shale			3468	5900	

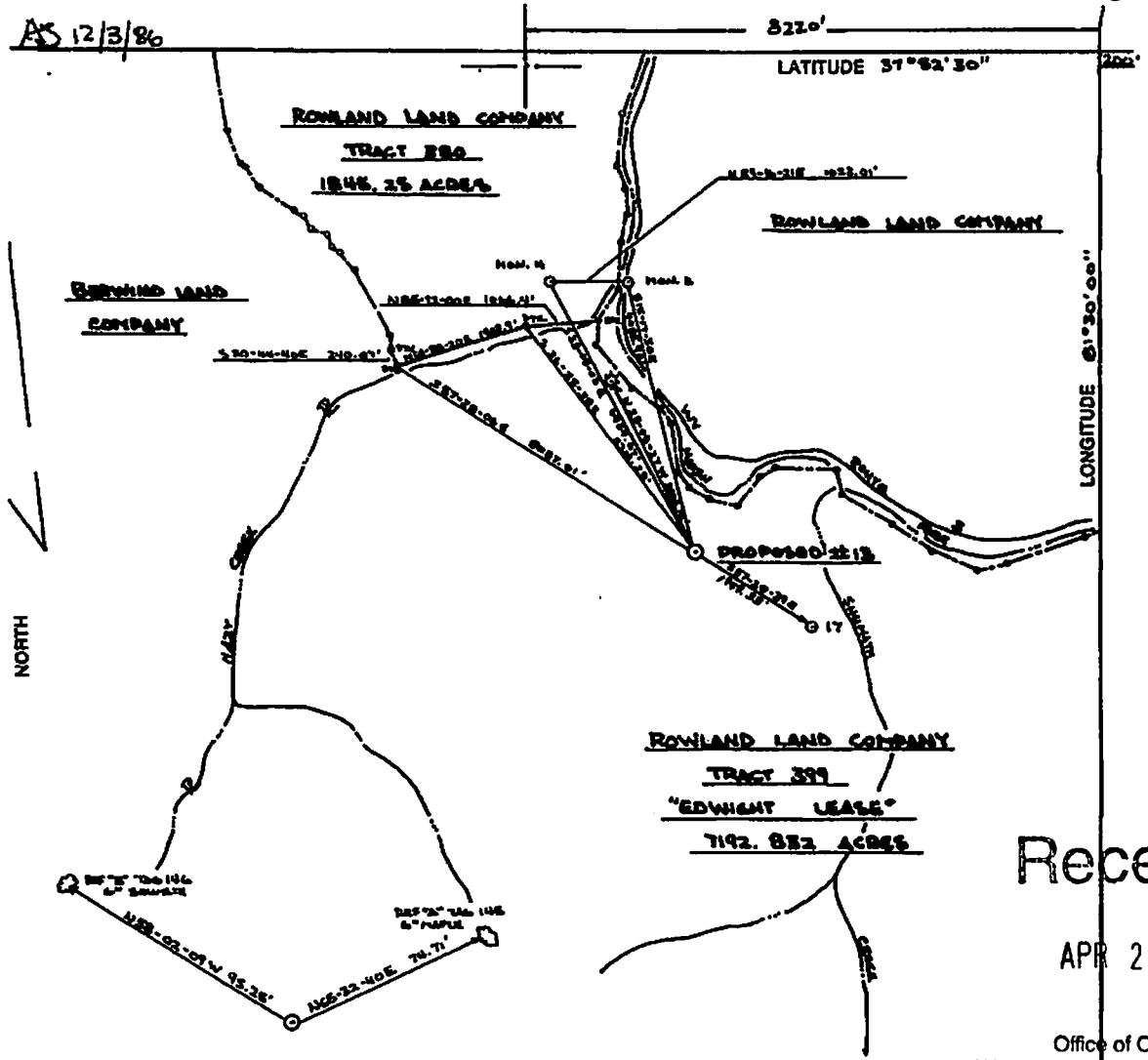
(Attach separate sheets as necessary)

Allegheny & Western Energy Corp
Well Operator

By: David L. Mc... Vice President

Date: April 6, 1987

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic record of all formations including



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WV Dept. of Environmental Protection

REFERENCES

1" = 50'

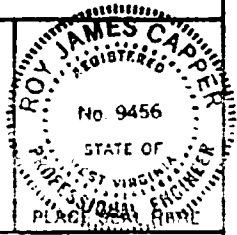
PEARODY COAL COORDINATES:

N: 588306.62
E: 321816.88

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

FILE NO. 86-081-016
 DRAWING NO. 86051
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1" IN 5000
 PROVEN SOURCE OF ELEVATION SPR N-MAN ON BRASS APT. IN EDWIGHT (ELEVATION) 988.437'

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 LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Roy James Capper
 R.P.E. 14456 I.S.



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE 29 OCTOBER 12 2014
 OPERATOR'S WELL NO. ROWLAND 613
 API WELL NO. 47 081 0750

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY RALEIGH PERMIT 15000
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1445.3 WATERSHED MARSH FORK COUNTY OF RALEIGH
 DISTRICT MARSH FORK COUNTY RALEIGH
 QUADRANGLE PLAT KNOR 7.5'

SURFACE OWNER ROWLAND LAND COMPANY ACREAGE 7192.882
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 15000
 LEASE NO. _____

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 FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5800'
 WELL OPERATOR AMERICAN & WESTERN DESIGNATED AGENT DENNIS L. HANN
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHARLESTON, WEST VIRGINIA 25309 CHARLESTON, WEST VIRGINIA 25309

8100750P

WW-4-A
Revised 6/07

- 1) Date: 4-21-14
- 2) Operator's Well Number
131351 Rowland B 13
- 3) API Well No.: 47 081 - 00750
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**

Received

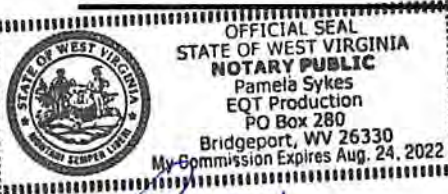
- 4) Surface Owner(s) to be served:
 - (a) Name Rowland Land Company LLC
Address 405 Capitol St
Suite 609
Charleston, WV 25301
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Gary Kennedy
Address P.O. Box 268
Nimitz WV 25978
Telephone 304.382.8402

- 5) (a) Coal Operator:
 - Name None APR 22 2014
 - Address _____
- (b) Coal Owner(s) with Declaration Office of Oil and Gas
WV Dept. of Environmental Protection
 - Name Rowland Land Company LLC
 - Address 405 Capitol St
Suite 609
Charleston, WV 25301
- (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 deprivacyofficer@wv.gov.



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

8100750A

neopost[®]
 04/21/2014

FIRST-CLASS MAIL

US POSTAGE

\$02.24⁰



ZIP 26330
 041L10228892

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

Received

APR 22 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection

8100750P

032 032
032 032

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

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For delivery information visit our website at www.usps.com

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement)	

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Here

Total Postage
 Sent To
 Street, Apt. #
 or PO Box No.
 City, State, Zi...
 131351 & 144661 Plugging

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)

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

Received

APR 22 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



7013 2630 0001 4239 3406
7013 2630 0001 4239 3406

7013 2630 0001 4239 3406

OT
Vicki Roark
Box 280
Edgeport, WV 26330

8100750 P

FIRST-CLASS MAIL
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04/21/2014
\$08.03
ZIP 26330
041L10228892



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

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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

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7013 2630 0001 4239 3390
7013 2630 0001 4239 3390

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

Total Postage: Rowland Land Company LLC

Sent To: 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.
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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
If YES, enter delivery address below: No

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

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



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Rowland B 13 - WV 131351 - API No. 47-081-00750

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 131351.

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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
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

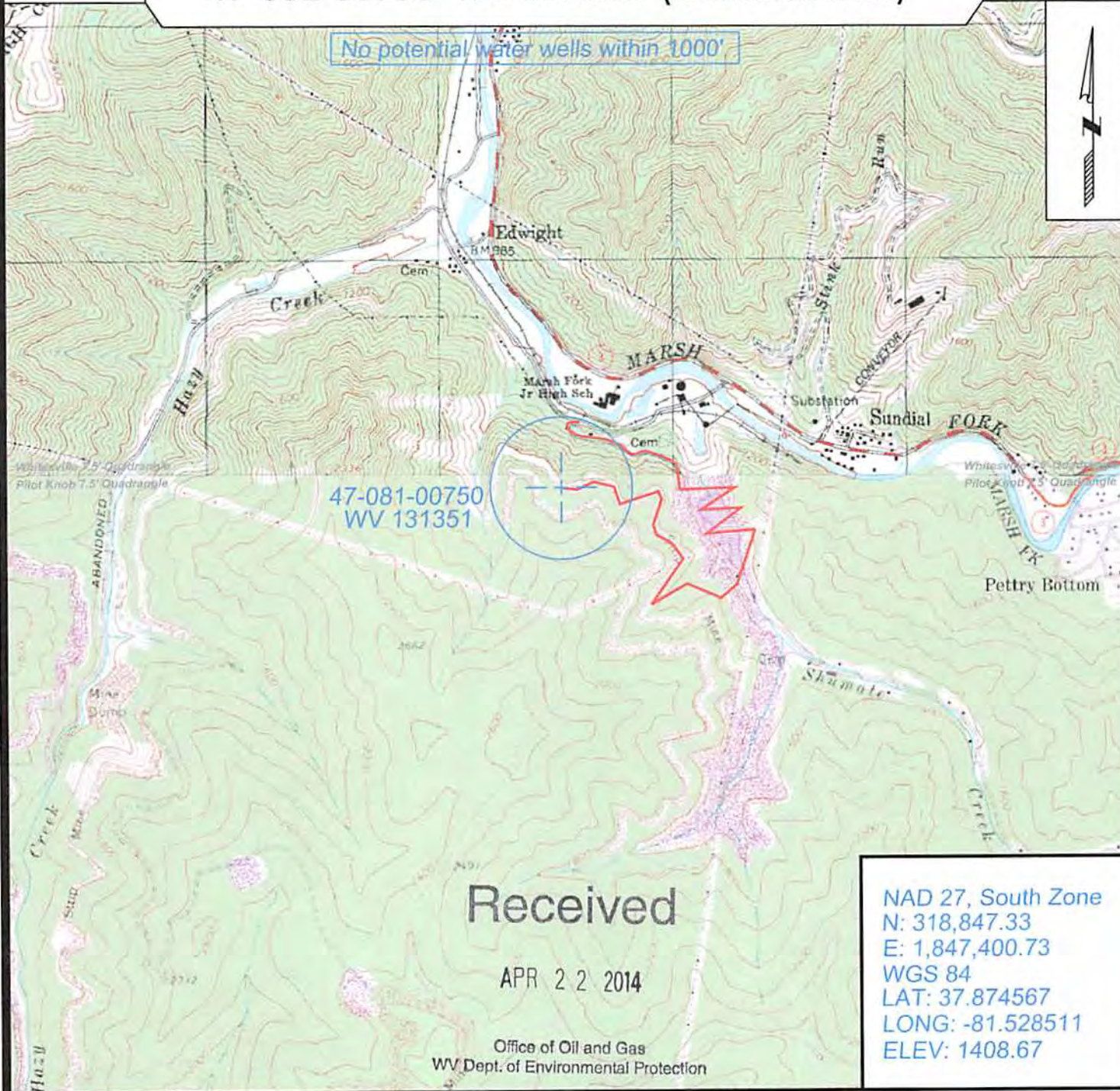
ALUM CREEK OFFICE
 P.O. Box 108 • 1413 Childress Road
 Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

Topo Quad: Pilot Knob 7.5' Scale: 1" = 2000'
 County: Raleigh Date: March 4, 2014
 District: Marsh Fork Project No: 23-06-00-08

Water

47-081-00750 WV 131351 (Rowland B 13)

No potential water wells within 1000'



47-081-00750
WV 131351

Received

APR 22 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

NAD 27, South Zone
 N: 318,847.33
 E: 1,847,400.73
 WGS 84
 LAT: 37.874567
 LONG: -81.528511
 ELEV: 1408.67

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

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



8100750P

WW-9
Revised 2/03

Page ____ of ____

2) Operator's Well Number

131351 Rowland B 13

3) API Well No.: 47 081 - 00750

**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: Marsh Fork Quadrangle: Pilot Knob

Elevation: 1409 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

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 *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

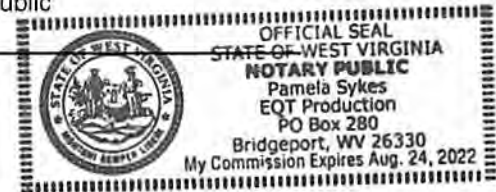
Company Official Title Permitting Supervisor-WV

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

Pamela Sykes

Notary Public

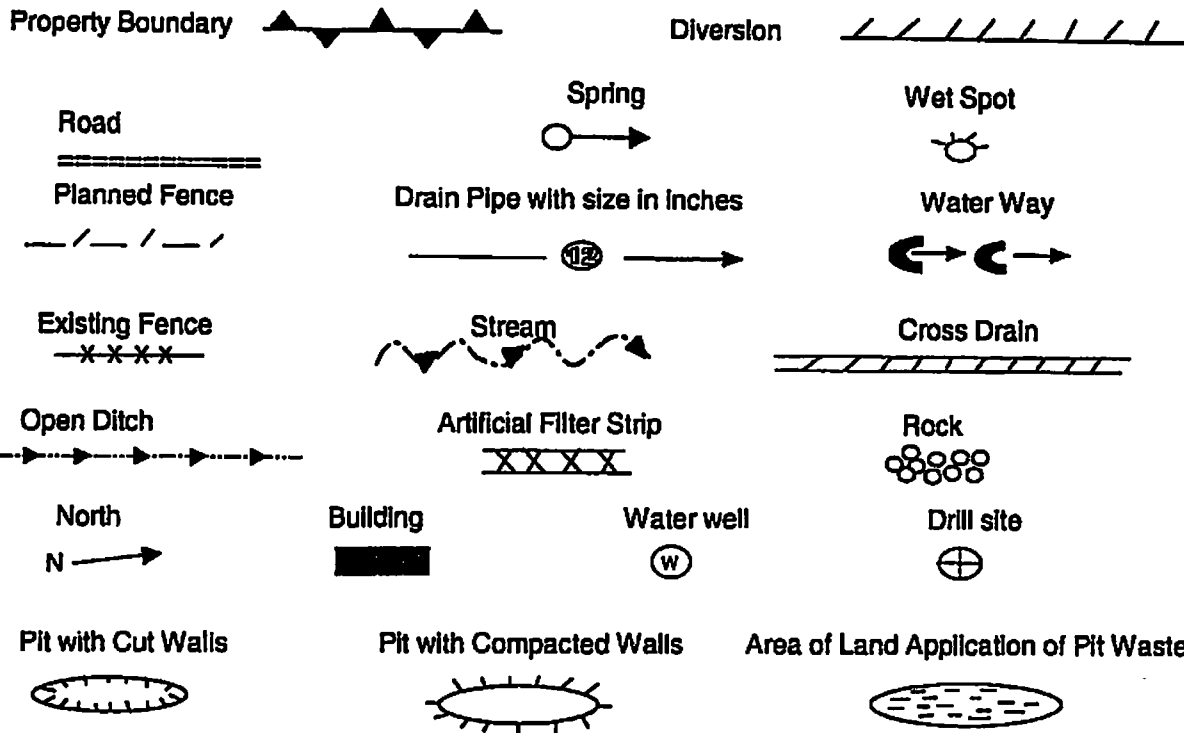
My Commission Expires 8-24-22



OPERATOR'S WELL NO.:

131351 Rowland B 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: *Jimmy Kennedy*

Comments: _____

Title: *Inspection* Date: *4/25/19*
 Field Reviewed? Yes No

8100750P

Topo Quad: Pilot Knob 7.5'

Scale: 1" = 2000'

County: Raleigh

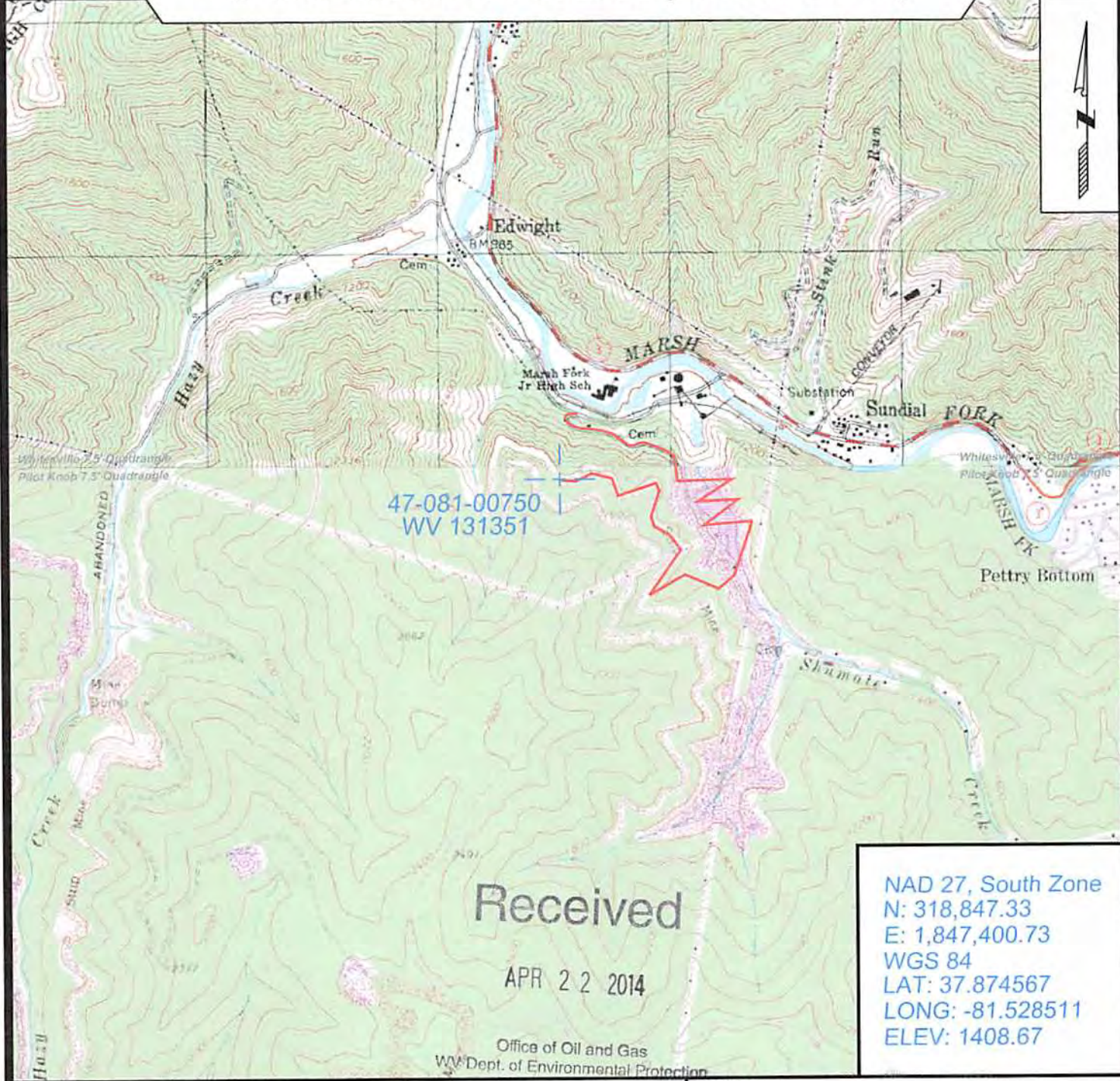
Date: March 4, 2014

District: Marsh Fork

Project No: 23-06-00-08

47-081-00750 WV 131351 (Rowland B 13)

Topo



NAD 27, South Zone
 N: 318,847.33
 E: 1,847,400.73
 WGS 84
 LAT: 37.874567
 LONG: -81.528511
 ELEV: 1408.67



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: 47-081-00750 WELL NO.: WV 131351 (Rowland B 13)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh 81 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: 4192030

UTM GPS EASTING: 453519 GPS ELEVATION: 429 m (1409 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.

Received

APR 22 2014

[Signature]
Signature
4/11/14
Date

PS # 2180
Title