



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

August 25, 2014

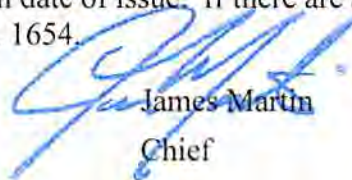
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100751, 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: ROWLAND LAND 23
Farm Name: ROWLAND LAND CO.
API Well Number: 47-8100751
Permit Type: Plugging
Date Issued: 08/25/2014

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

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 under the terms of that agreement.

8100751 P

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

Date: 7-8-14
Operator's Well
Well No. 131381 Rowland B-23
API Well No.: 47 081 - 00751

OK 17338
\$100⁰⁰

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: 1555 Watershed: Marsh Fork
Location: Marsh Fork County: Raleigh Quadrangle: Pilot Knob 7.5'
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 25978 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 7/18/14

PLUGGING PROGNOSIS

Rowland Land Co. #23 (131381)

Raleigh Co., West Virginia

API # 47-081-00751

District: Marsh Fork

BY: Craig Duckworth

DATE: 3/28/14

CURRENT STATUS:

9 5/8" csg @ 992 (cts)
 7" csg @ 2504' (175sks)
 4 1/2" csg @ 5891' (260sks)

TD @ 5910'

Fresh Water @ 50' **Salt Water @ 500'**
Salt Sand @ 1458' **Coal @ none reported**
Gas shows @ none reported
Oil Shows @ none reported **Elevation @ 1538'**
Stimulation: Perfs from 5834' to 2927'

1. Notify State Inspector, Gary Kennedy 304-382-8402, and 24 hrs prior to commencing operations.
2. TIH w/ tbg @ 5834'; Set 2394' C1A Cement Plug @ 5834' to 3440' Perfs.5834' to 3440')
3. TOOH w/ tbg @ 3440'; Gel hole @ 3440' to 3062'
4. TOOH w/ tbg @ 3062'; Set 262' C1A Cement Plug @ 3062' to 2800' (Perfs)
5. TOOH w/tbg Freepoint 4 1/2".Cut/shoot 4 1/2"at freepoint
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 @ 2800'; gel hole @ 2800' to 2550'
8. TOOH w/ tbg @ 2550'; Set 100' C1A Cement Plug @ 2550' to 2450' (4 1/2"cut & 7" csg set)
9. TOOH w/ tbg @ 2450'; gel hole @ 2450' to 1450'
10. TOOH w/ tbg @ 1450'; Set 100' C1A Cement Plug @ 1450' to1350' (Salt Sand @1458')
11. TOOH w/ tbg @ 1350'; gel hole @ 1350' to 1050'
12. TOOH w/tbg Freepoint 7".Cut/shoot 7"at freepoint
13. Set a 100' C1A Cement Plug 50' in/Out of cut. Perf all FW, Coal, Oil & Gas Shows below 7" cut. Do not omit any plugs
14. TIH w/ tbg @ 1050'; Set 110' C1A Cement Plug @ 1050' to 940 (7" cut & 9 5/8" set)
15. TOOH w/ tbg @ 940'; gel hole @ 940' to 500'
16. TOOH w/ tbg @ 500'; Set 100' C1A Cement Plug @ 500' to 400' (SW @ 500')
17. TOOH w/ tbg @ 400'; gel hole @ 400' to 200'
18. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (FW @ 50')
19. Top off as needed
20. Set Monument to WV-DEP Specifications
21. Reclaim Location & Road to WV-DEP Specifications.



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 23
Farm Rowland Land Co
API No. 47 - 081 - 0751

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1538 Watershed Shunata Creek
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
Dillon ADDRESS P.O.Box 1526
Sophia, W.Va
PERMIT ISSUED 12/4/86
DRILLING COMMENCED 12/30/86
DRILLING COMPLETED 1/9/87

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	43	0	0
9 5/8	992	992	375 sks
8 5/8			
7	2504	2504	175 sks
5 1/2			
4 1/2	5891	5891	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 5910 feet Rotary X / 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 Weir Pay zone depth 2927 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 49 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 770 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 3544 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 150 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 770 psig (surface measurement) after 24 hours shut in

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Office of Oil and Gas
JUL 08 2014
WV Department of
Environmental Protection
08/29/2014

8100751P

FORM IV-35
(REVERSE)

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

2927-3062 perf w/ 44 holes frac w/ 45,000# 20/50 sd + 750 gal 15% acid + 805,000 scf n2
 3544-3554 perf w/ 21 holes frac w/ 30,000# 20/50 sd + 500 gal 15% acid + 500,000 scf n2
 3752-5023 perf w/ 45 -oles frac w/ 40,000# 20/50 sd + 1,000 gal 15% acid + 1,256,000 scf n2
 5081-5834 perf w/ 33 holes frac w/ 12,000# 20/50 sd + 1,000 gal 15% acid + 804,000 scf n2

RECEIVED
AUG 11 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
sandstone & shale			0	1458	
salt sand			1458	1623	
shale			1623	1707	
salt sand			1707	1928	
shale & sand			1928	2403	
little lime			2403	2461	
slate & lime			2461	2509	
big lime			2509	2854	
shale			2854	2918	
weir			2918	3071	
grey shale			3071	3314	
sunbury shle			3314	3343	
sandy siltstone & shale			3343	3543	
gordon			3543	3552	
grey & brown shale			3552	5910	TD 5910 KB

RECEIVED
Office of Oil and Gas

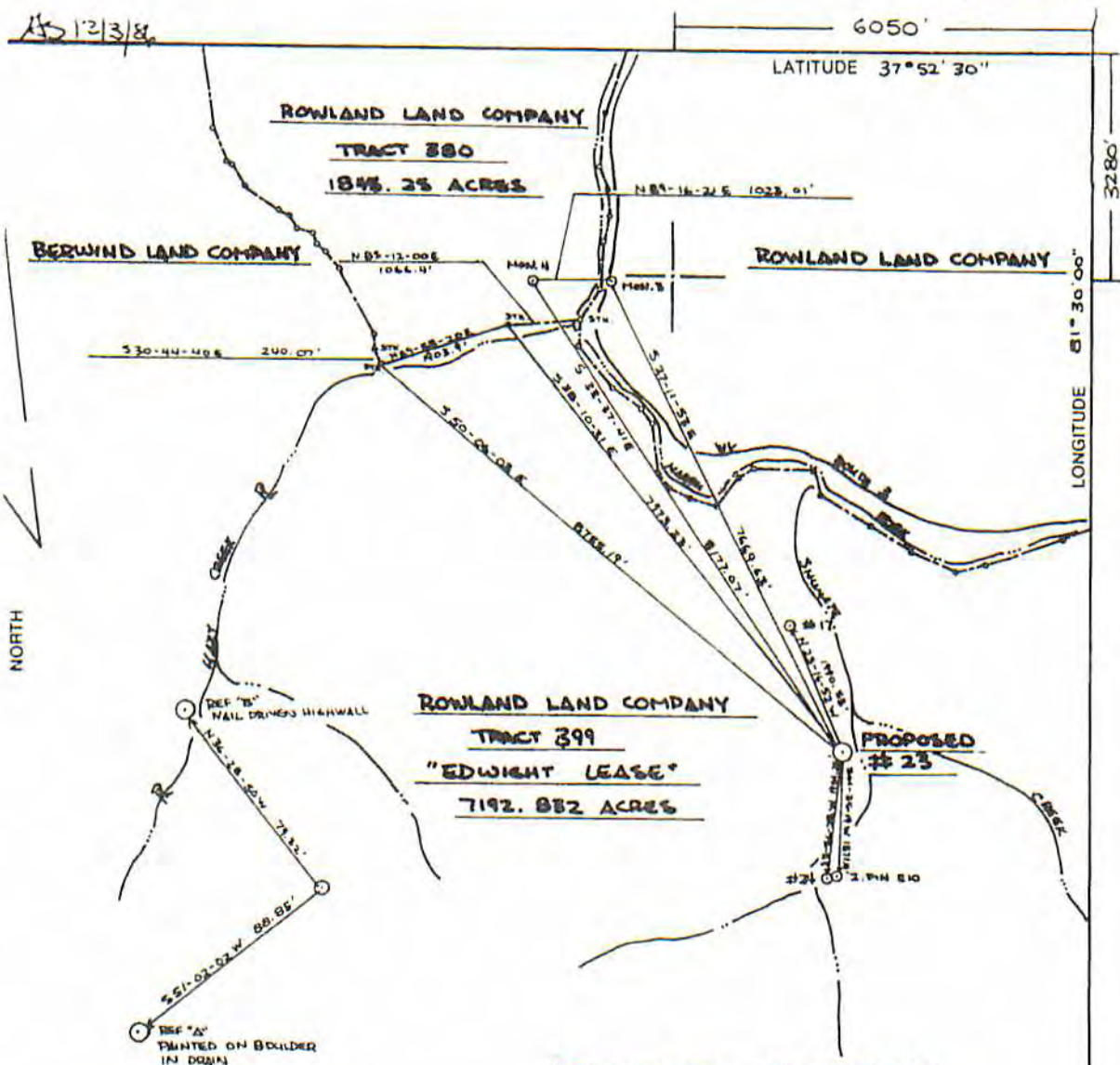
(Attach separate sheets as necessary)

JUL 08 2014

Allegheny & Western Energy Corp
 Well Operator WV Department of Environmental Protection
 By: *[Signature]*
 Date: April 6, 1987

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

08/29/2014



REFERENCES 1" = 50'

PEABODY COAL COORDINATES:
 N: 585426.32
 E: 3220544.52

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FILE NO. <u>86-081-018</u> DRAWING NO. <u>04083</u> SCALE <u>1" = 2000'</u> MINIMUM DEGREE OF ACCURACY <u>1 IN 5000</u> PROVEN SOURCE OF ELEVATION <u>BY N-404 ON EAST BRIDGE ABT. IN DRAUGHT</u> ELEVATION = <u>904.637</u>	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) <u>Roy James Copper</u> R.P.E. <u>9456</u> L.L.S.	
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE 30 OCTOBER, 1986
 OPERATOR'S WELL NO. ROWLAND # 73
 API WELL NO. 47-081-0751

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

LOCATION: ELEVATION 1533.9' WATER SHED SHUMATE CREEK OF MARSH FORK
 DISTRICT MARSH FORK COUNTY RALEIGH

QUADRANGLE PILOT KNOB 7.5'

SURFACE OWNER ROWLAND LAND COMPANY ACREAGE 7192.832
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 15000

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 MURCELLUS SHALE ESTIMATED DEPTH 5300'
 WELL OPERATOR ALLEGHENY + WESTERN DESIGNATED AGENT DENNIS L. MANN
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587

CHARLESTON, WEST VIRGINIA 25329 CHARLESTON, WEST VIRGINIA 25329

Office of Oil and Gas
 WV Department of Environmental Protection

08/29/2014

1) Date: 7-8-14
 2) Operator's Well Number
131381 Rowland B-23
 3) API Well No.: 47 081 - 00751
 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 Street
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 Company LLC
 Address 405 Capitol Street
Suite 609
Charleston, WV 25301
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name Performance Coal Company
 Address Alpha Natural Resources
300 Running Right Rd
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:
 OFFICIAL SEAL By:
 STATE OF WEST VIRGINIA
 NOTARY PUBLIC
 Nicholas L. Bumgardner
 Rt. 1, Box 4
 Liberty, WV 25124
 My Commission Expires July 27, 2018
 Telephone: _____
 Subscribed and sworn before me this _____ day of _____, 2014
 My Commission Expires: 7/27/2018

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

[Signature]
 RECEIVED
 Office of Oil and Gas
 JUL 08 2014
 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.

8100757P

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Restricted Delivery Fee (Endorsement Required)	
Total	

Postmark Here

Performance Coal Company
Alpha Natural Resources
 300 Running Right Rd.
 Julian, WV 25521
 123531, 122481, 131381 plugging

PS Form 3800, August 2006 See Reverse for Instructions

Performance Coal Company
Alpha Natural Resources
300 Running Right Rd.
Julian, WV 25521
123531, 122481, 131381 plugging

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 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:
 Performance Coal Company
 Alpha Natural Resources
 300 Running Right Rd.
 Julian, WV 25521
 123531, 122481, 131381 plugging

2. Article Number 7014 0510 0000 4438 5136
 (Transfer from service label)

3. Service Type
 Certified Mail®
 Registered Mail®
 Insured Mail®
 Restricted Delivery®
 Return Receipt for Merchandise

4. Restricted Delivery? (Extra Fee) Yes No

PS Form 3811, July 2013 Domestic Return Receipt

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Office of Oil and Gas
JUL 08 0 2014
WV Department of
Environmental Protection

08/29/2014

8100751P

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

Sent to: **Rowland Land Company LLC**
 405 Capitol Street
 Suite 609
 Charleston, WV 25301
 123531, 131381 plugging

Postmark Here

PS Form 3800, August 2006 See Reverse for Instructions

Rowland Land Company LLC
405 Capitol Street
Suite 609
Charleston, WV 25301
123531, 131381 plugging

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

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
 Rowland Land Company LLC
 405 Capitol Street
 Suite 609
 Charleston, WV 25301
 123531, 131381 plugging

2. Article Number: 7014 0510 0000 4438 5129
 (Transfer from service label)

3. Service Type:
 Certified Mail®
 Certified Mail® Express™
 Registered
 Insured Mail
 Return Receipt for Merchandise

4. Restricted Delivery? (Extra Fee)
 Yes
 No

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

B. Received by (Printed Name):
 C. Date of Delivery:
 X Addressed to Agent

COMPLETE THIS SECTION ON DELIVERY

A. Signature

PS Form 3811, July 2013 Domestic Return Receipt

RECEIVED
Office of Oil and Gas
JUL 08 2014
WV Department of
Environmental Protection

08/29/2014

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 7.5'
Elevation: 1555 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.? 2000, 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? _____

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

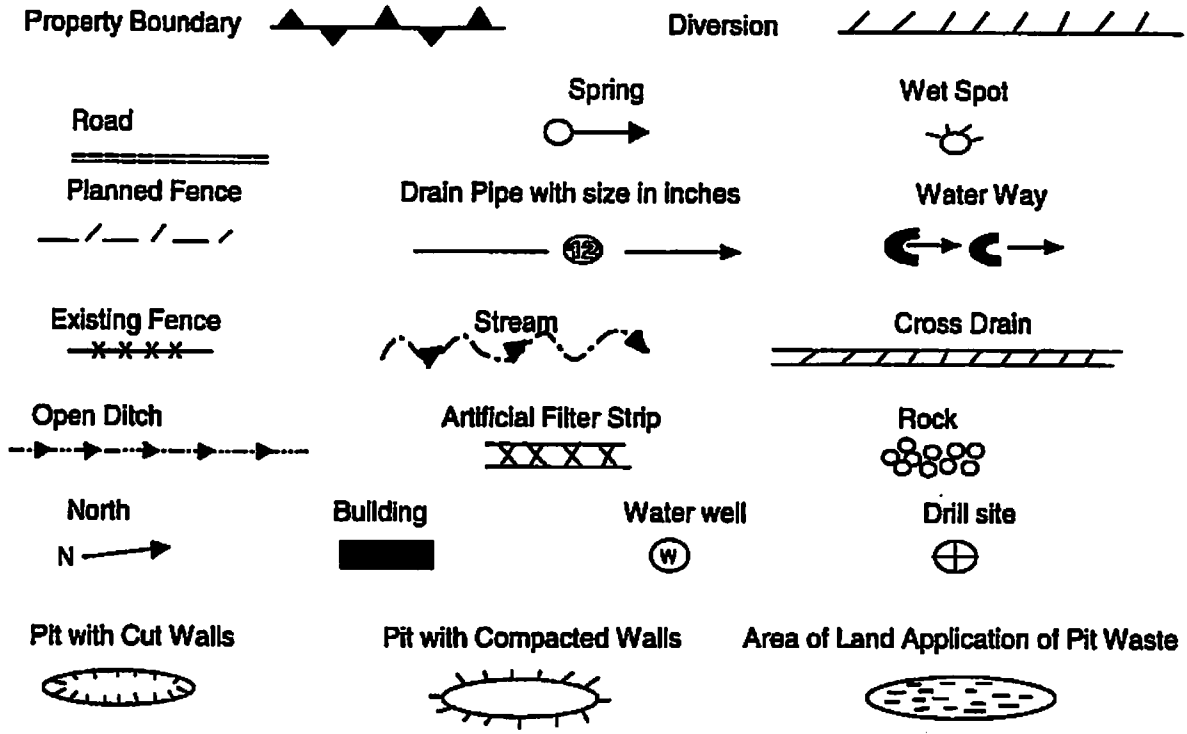
Subscribed and sworn before me this 7 day of JULY, 2014

My Commission Expires 7/27/2018

RECEIVED
Office of Oil and Gas
JUL 28 2014
WV Department of Environmental Protection
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV 25124
My Commission Expires July 27, 2018
08/29/2014

OPERATOR'S WELL NO.:
131381 Rowland B-23

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: *John Kennedy*

Comments: _____

Title: *Inspector* Date: *7/18/14*
Field Reviewed? Yes No

Topo Quad: Pilot Knob 7.5'

Scale: 1" = 2000'

County: Raleigh

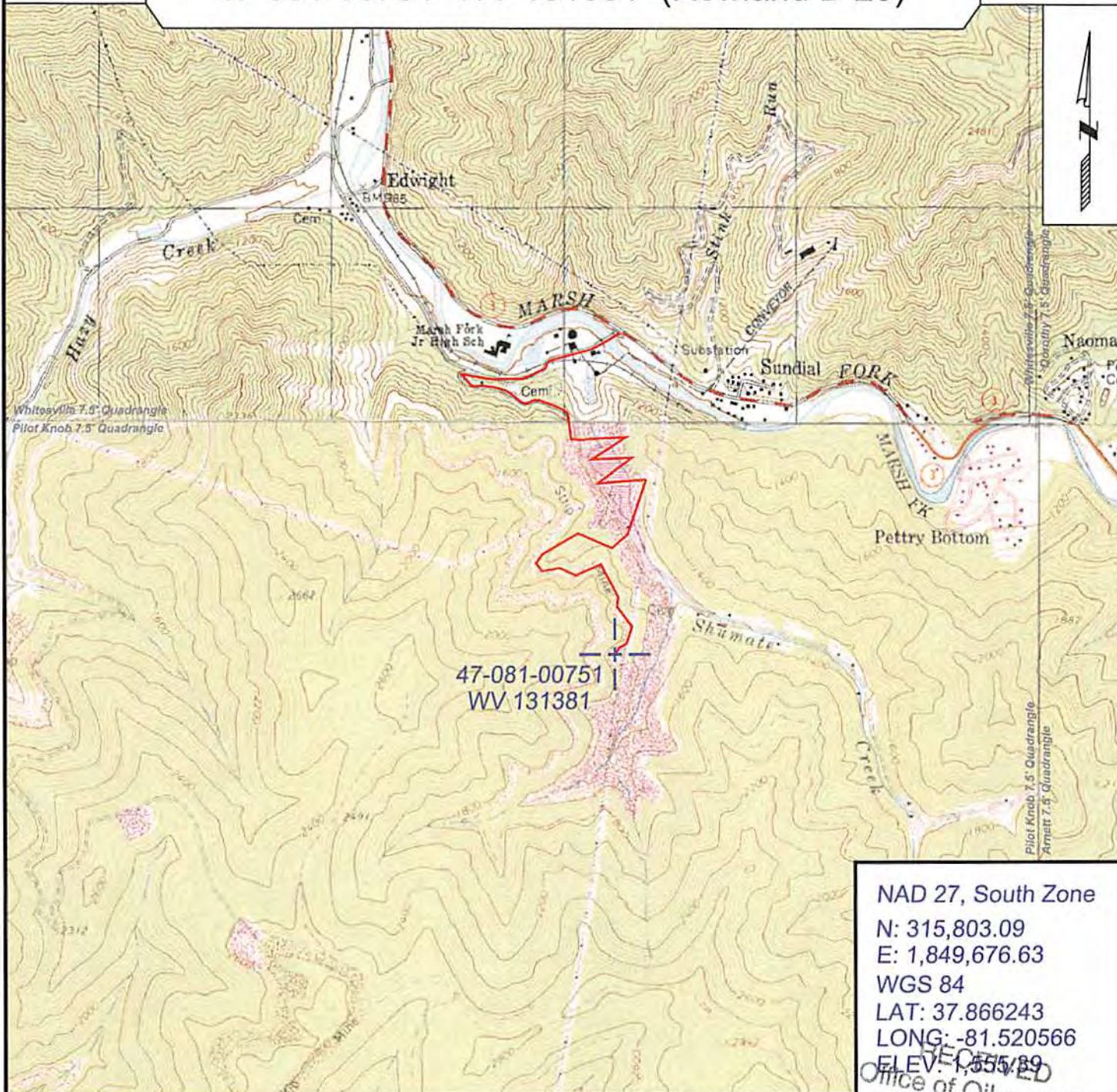
Date: June 5, 2014

District: Marsh Fork

Project No: 23-06-00-08

47-081-00751 WV 131381 (Rowland B-23)

Topo



NAD 27, South Zone
 N: 315,803.09
 E: 1,849,676.63
 WGS 84
 LAT: 37.866243
 LONG: -81.520566
 ELEV: 1,555.89

RECEIVED
 Office of Oil and Gas

PREPARED FOR:

EQT Production Company

JUL 8 2014
 P.O. Box 280
 Department of
 Bridgeport, WV 26100
 Environmental Protection



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

08/29/2014

WW-7
8-30-06



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

API: 47-081-00751 WELL NO.: WV 131381 (Rowland B-23)
FARM NAME: Rowland Land Company
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Raleigh DISTRICT: Marsh Fork ✓
QUADRANGLE: Pilot Knob 7.5' 347
SURFACE OWNER: Rowland Land Company, LLC
ROYALTY OWNER: Rowland Land Company, LLC, et al.
UTM GPS NORTHING: 4191102
UTM GPS EASTING: 454213 GPS ELEVATION: 474 m (1555 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.** RECEIVED
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. Office of Oil and Gas
JUL 08 2014

Steph Brown
Signature

PS # 2180
Title

6/29/14
Date
WV Department of Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Rowland Land Company B-23 WV 131381 API No. 47-081-00751

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 131381. A water well inventory was completed for WV 131351 and the only user of water in this area, Alpha Natural Resources, is supplied by Public Water.

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

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

ALUM CREEK OFFICE
PO. Box 108/113 Childress Road
Alum Creek, WV 26224
phone: 304-756-2949
fax: 304-756-2948

RECEIVED
Office of Oil and Gas
JUL 28 2014
WV Department of
Environmental Protection

08/29/2014

Topo Quad: Pilot Knob 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: June 5, 2014

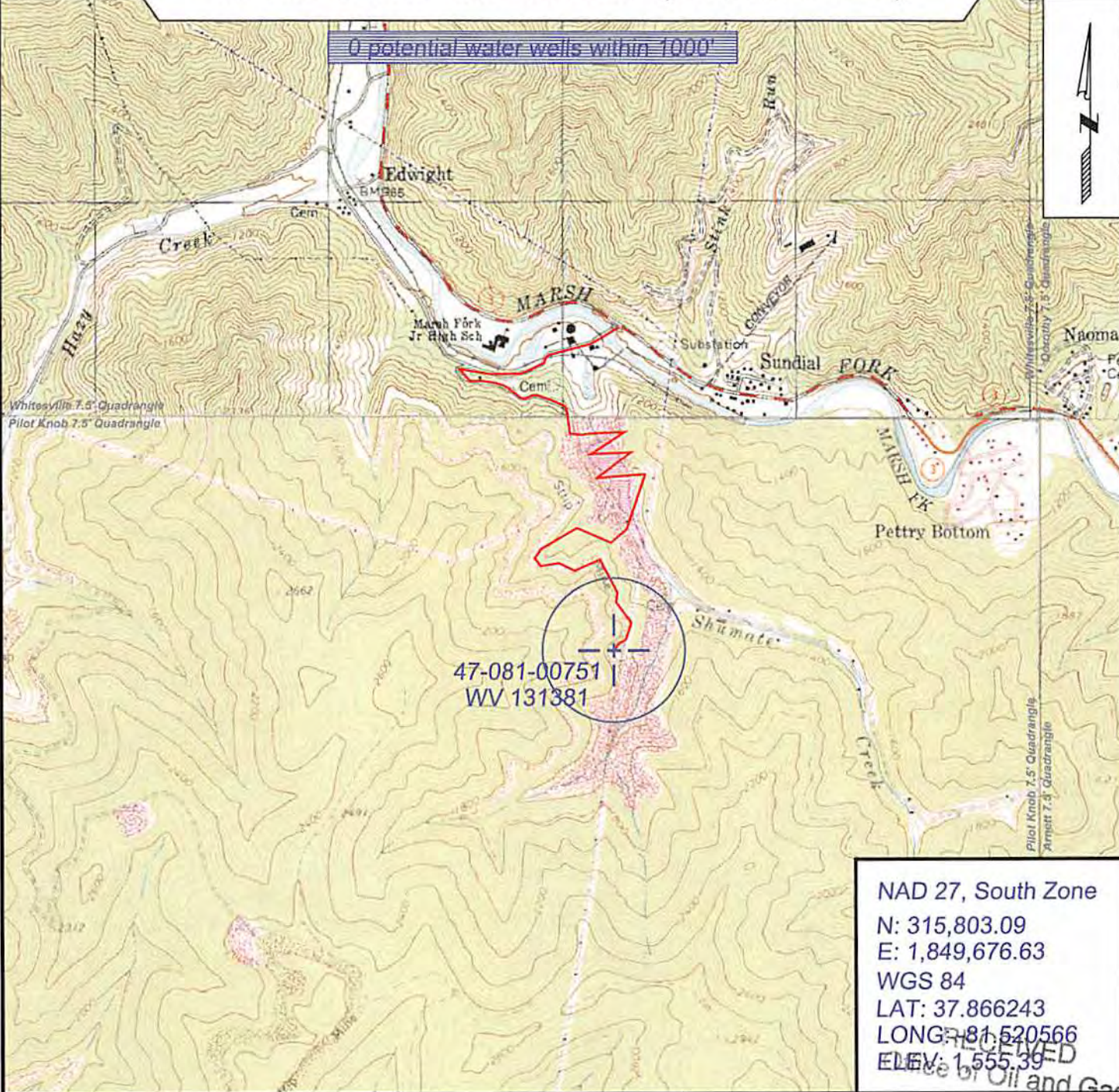
District: Marsh Fork

Project No: 23-06-00-08

Water

47-081-00751 WV 131381 (Rowland B-23)

0 potential water wells within 1000'



NAD 27, South Zone
 N: 315,803.09
 E: 1,849,676.63
 WGS 84
 LAT: 37.866243
 LONG: -81.520566
 ELEV: 1,555.39



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
 WV Department of Environmental Protection
 JUL 08 2014

08/29/2014