



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 27, 2014

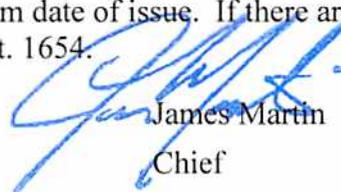
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100769, 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 20
Farm Name: ROWLAND LAND CO.
API Well Number: 47-8100769
Permit Type: Plugging
Date Issued: 08/27/2014

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 under the terms of that agreement.

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

Date: 7-15-14
Operator's Well _____
Well No. 131371 (Rowland B-20)
API Well No.: 47 081 - 00769

CK 17839
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: 1019' Watershed: Marsh Fork
Location: Marsh Fork County: Raleigh Quadrangle: Whitesville 7.5'
District: _____

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

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas 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.

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. #20 (131371)

Raleigh Co., West Virginia

API # 47-081-00769

District: Marsh Fork

BY: Craig Duckworth

DATE: 3/28/14

CURRENT STATUS:

9 5/8" csg @ 380' (cts)
 7" csg @ 1683' (250sks)
 4 1/2" csg @ 5443' (235sks)

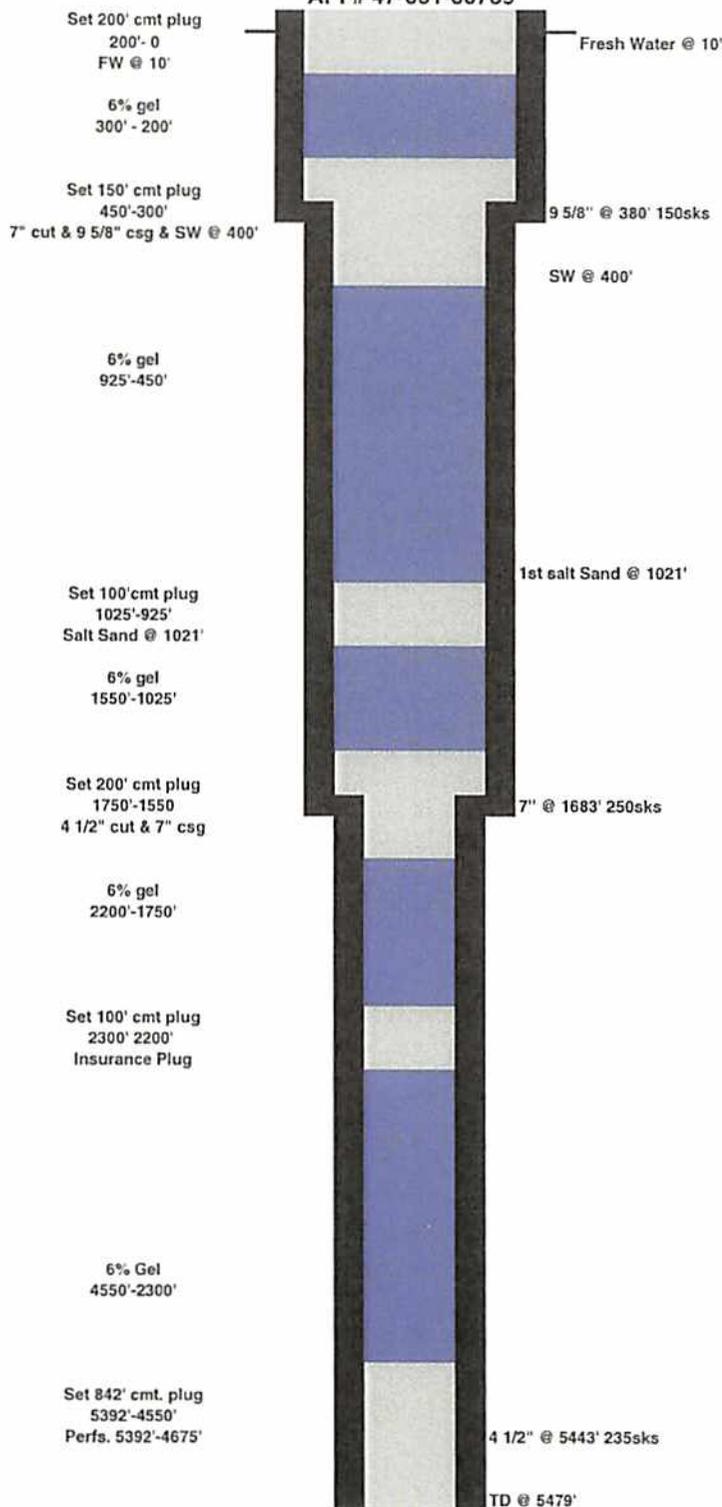
TD @ 5479'

Fresh Water @ 10' Salt Water @ 400'
 Salt Sand @ 1021' Coal @ none reported
 Gas shows @ none reported
 Oil Shows @ none reported Elevation @ 1006'
 Stimulation: Perfs 5392' to 4675'

1. Notify State Inspector, Gary Kennedy 304-382-8402, and 24 hrs prior to commencing operations.
2. TIH w/ tbg @ 5392'; Set 842' C1A Cement Plug @ 5392' to 4550' Perfs. 5392' to 4675')
3. TOOH w/ tbg @ 4550'; Gel hole @ 4550' to 2300'
4. TOOH w/ tbg @ 2300'; Set 100' C1A Cement Plug @ 2300' to 2200' (Insurance plug)
5. TOOH w/ tbg @ 2200'; gel hole @ 2200' to 1750'
6. TOOH w/ tbg Freepoint 4 1/2". Cut/shoot 4 1/2" at freepoint
7. 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.
8. TIH w/ tbg @ 1750'; Set 200' C1A Cement Plug @ 1750' to 1550' (4 1/2" cut & 7" csg set)
9. TOOH w/ tbg @ 1550'; gel hole @ 1550' to 1025'
10. TOOH w/ tbg @ 1025'; Set 100' C1A Cement Plug @ 1025' to 925' (Salt Sand @ 1021')
11. TOOH w/ tbg @ 925'; gel hole @ 925' to 450'
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 @ 450'; Set 150' C1A Cement Plug @ 450' to 300' (7" cut & 9 5/8" set & SW @ 400')
15. TOOH w/ tbg @ 300'; gel hole @ 300' to 200'
16. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (FW @ 10')
17. Top off as needed
18. Set Monument to WV-DEP Specifications
19. Reclaim Location & Road to WV-DEP Specifications.

Rowland Land Co. # 20 (131 371)

API # 47-081-00769



C1A Cement
6 % Gel
packers
open hole

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Office of Oil and Gas
JUL 17 2014
WV Department of
Environmental Protection

FEB 03 1988

8100769P

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Farm Rowland Land Co
API No. 47 - 081 - 0769

131371

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: 1006.4 Watershed Marsh Fork of big Coal River
District: Marsh Fork County Raleigh Quadrangle Whitesville 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 Sophia, W.Va
PERMIT ISSUED 6/17/87
DRILLING COMMENCED 8/20/87
DRILLING COMPLETED 8/30/87
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	40	0	0
9 5/8"	380	380	150 sks
8 5/8"	1683	1683	250 sks
7"			
5 1/2"			
4 1/2"	5443	5443	235 sks
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5290 feet
Depth of completed well 5479 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 10 feet; Salt 400 feet
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3155 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 474 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 900 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

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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	1021	
saltsand			1021	1266	
shale			1266	1301	
salt sand			1301	1694	
shale & sand			1694	1752	
little lime			1752	1834	
big lime			1834	2295	
shale			2295	2353	
weir			2353	2510	
shale			2510	2740	
sunbury shale			2740	2766	
sandy shale			2766	2954	
gordon			2954	2973	
grey & brown shale			2973	5479	TD 5479 KB.

(Attach separate sheets as necessary)

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Office of Oil and Gas

Allegheny & Western Energy Corp

Well Operator

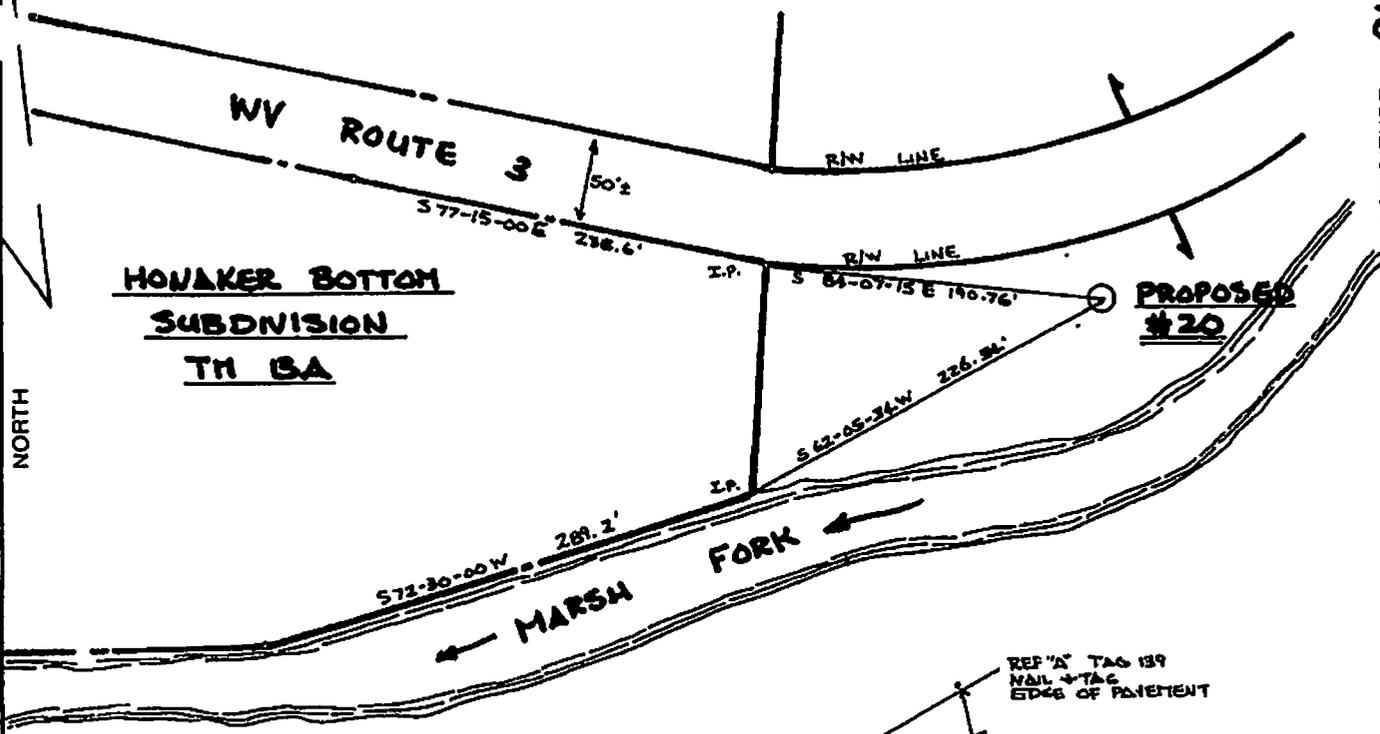
JUL 17 2014

By: Dennis G. Mc... Vice President
Date: December 1, 1997
WV Dept. of Environmental Protection

ROWLAND LAND COMPANY, LTD.
P/O TR 4 PARCEL 10

LONGITUDE 81°30'00"

14850'



HONAKER BOTTOM
SUBDIVISION
TR 3A

SURVEY TIES

ROWLAND #20 TO ROWLAND #19: N 77-40-31 W 1682.84'
 MONUMENT #3 TO ROWLAND #20: S 6-44-36 E 6579.18'
 MONUMENT #4 TO ROWLAND #20: S 65-23-31 E 7789.82'

COAL COORDINATES

N: 588990.9
 E: 3223098.37

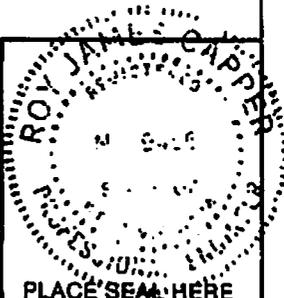
REFERENCES

1" = 50'

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

FILE NO. AW-081-018
 DRAWING NO. _____
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY 1 IN 10000
 PROVEN SOURCE OF ELEVATION BM AT EDWIGHT BRIDGE (985')

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. 9/26 L.L.S. _____



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE 4 MAY RECEIVED 19 87
 OPERATOR'S WELL NO. ROWLAND #20
 API WELL NO. of Oil and Gas
47-081-0769
 STATE WV COUNTY T 2014 PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1006.4 WATERSHED MARSH FORK OF BIG COAL RIVER
 DISTRICT MARSH FORK COUNTY RAVENN
 QUADRANGLE WHITESVILLE 7.5'
 SURFACE OWNER ROWLAND LAND COMPANY, LTD. Department of Environmental Protection
 OIL & GAS ROYALTY OWNER SAME ACREAGE 3950.56
 LEASE ACREAGE 15,000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW

COUNTY NAME

1) Date: 7-15-14
2) Operator's Well Number
131371 (Rowland B-20)
3) API Well No.: 47 081 - 00769
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 1405 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
1405 Capitol Street
Address 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.

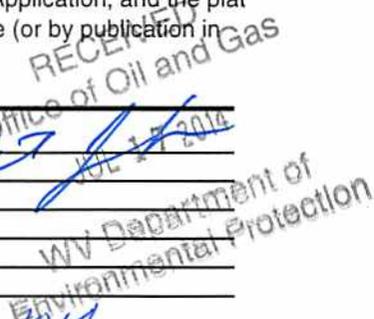
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental 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: _____
By: _____
Its: _____
Address: _____
Telephone: _____

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

Subscribed and sworn before me this 15 day of July, 2014
My Commission Expires: 7/27/2018 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.



8100769 P

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"> 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. 	<p>A. Signature <input type="checkbox"/> Agent X <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 style="text-align: center;">Rowland Land Company LLC 1405 Capitol Street Suite 609 Charleston, WV 25301 131371 plugging</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number 7013 2630 0002 2366 4159 (Transfer from service to _____)</p>	
PS Form 3811, February 2004	Domestic Return Receipt 102595-02-M-1540

PS Form 3800, August 2006 See Reverse for Instructions

Rowland Land Company LLC
1405 Capitol Street
Suite 609
Charleston, WV 25301
131371 plugging

City or P.O. Box
Street
Sent
To

7013 2630 0002 2366 4159

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

Postmark Here

OFFICIAL USE

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

U.S. Postal Service™
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CERTIFIED MAIL™

Rowland Land Company LLC
1405 Capitol Street
Suite 609
Charleston, WV 25301
131371 plugging

neopost[®]
07/15/2014
US POSTAGE

FIRST-CLASS MAIL
ZIP 26330
041L10228892

\$07.61¹⁰

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> 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. 	<p>A. Signature X <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 style="text-align: center;">Performance Coal Company Alpha Natural Resources 300 Running Right Rd. Julian, WV 25521 131371 Plugging</p>	<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center;">7013 2630 0002 2366 4155</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

CERTIFIED MAIL™



7013 2630 0002 2366 4155
7013 2630 0002 2366 4155

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only: No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

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

Performance Coal Company
Alpha Natural Resources
300 Running Right Rd.
Julian, WV 25521
131371 Plugging

City, State or PO Box, Zip
To: _____

PS Form 3800, August 2006 See Reverse for Instructions

Performance Coal Company
Alpha Natural Resources
300 Running Right Rd.
Julian, WV 25521
131371 Plugging

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Office of Oil and Gas
JUL 17 2014
WV Department of
Environmental Protection

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07/15/2014
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041110228892

**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: Whitesville 7.5'

Elevation: 1019' 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.? 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? _____

Will closed loop system be used? _____

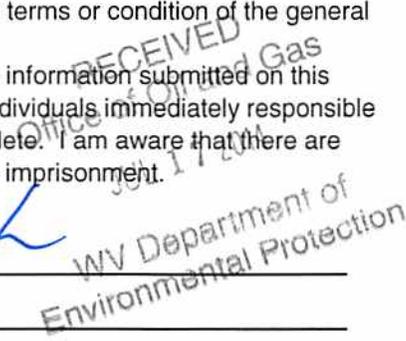
Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

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.



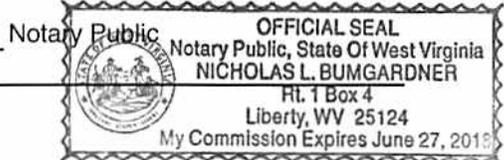
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

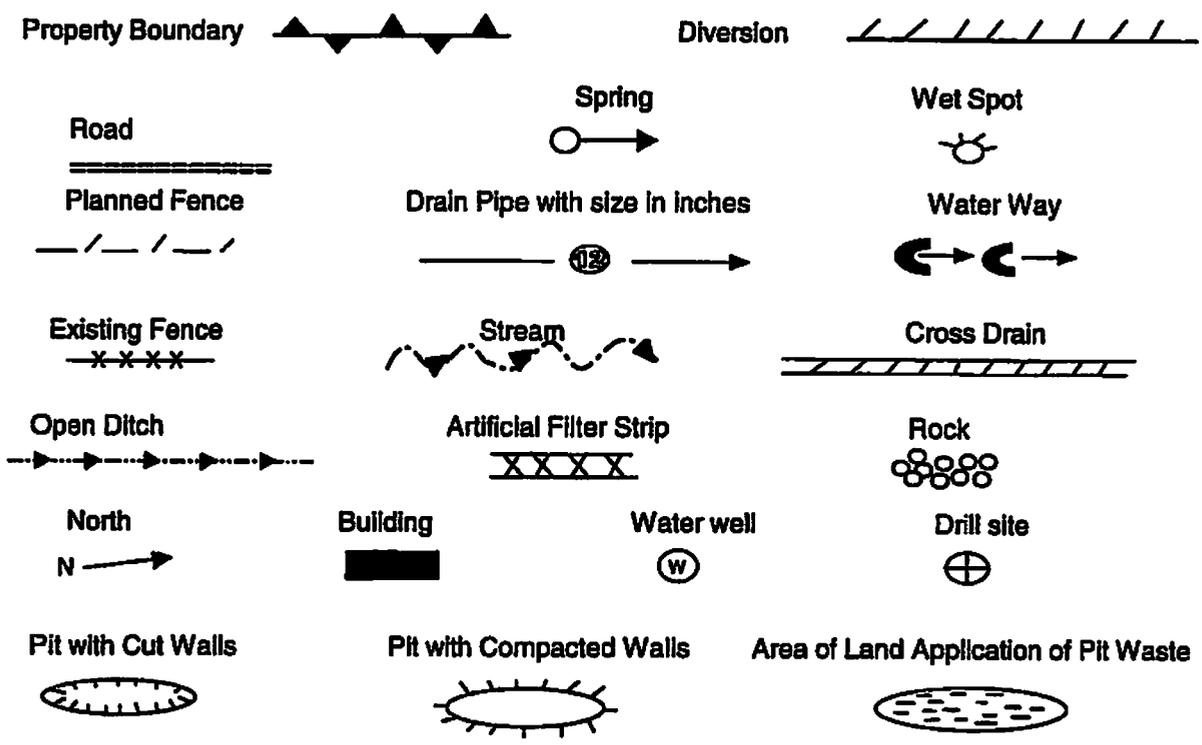
Subscribed and sworn before me this 14 day of JULY, 2014

My Commission Expires 7/27/2018



OPERATOR'S WELL NO.:
131371 (Rowland B-20)

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: *Shing Kennedy*

Comments: _____

Title: Inspector Date: 7/18/14
Field Reviewed? 2 Yes No

8100769P

Topo Quad: Whitesville 7.5'

Scale: 1" = 2000'

County: Raleigh

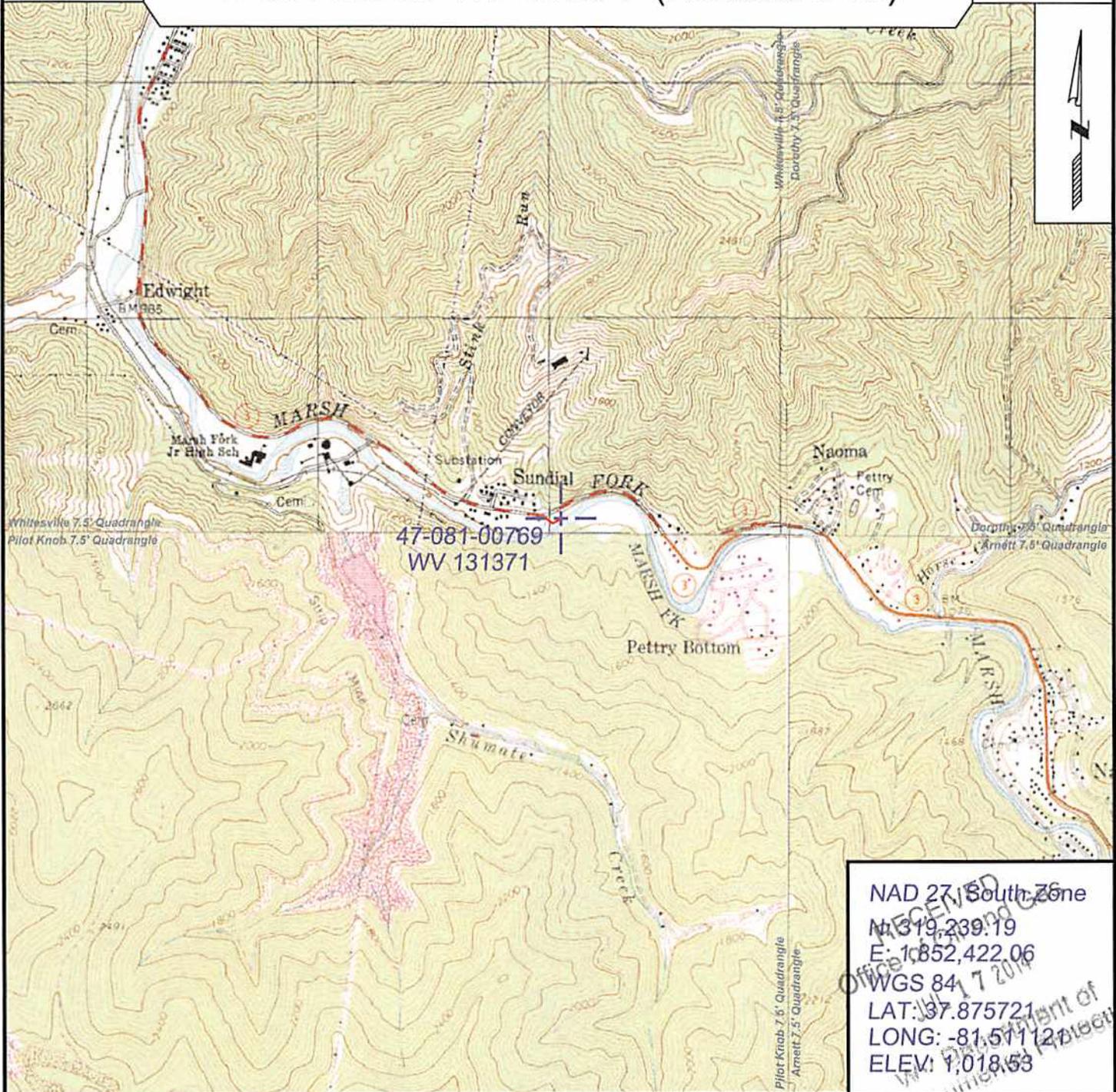
Date: June 5, 2014

District: Marsh Fork

Project No: 23-06-00-08

47-081-00769 WV 131371 (Rowland B-20)

Topo



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

8100769 P

WW-7
8-30-06



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

API: 47-081-00769 WELL NO.: WV 131371 (Rowland B-20)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Raleigh DISTRICT: Marsh Fork 2

QUADRANGLE: Whitesville 7.5' 677

SURFACE OWNER: Rowland Land Company, LLC

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

UTM GPS NORTHING: 4192149

UTM GPS EASTING: 455049 GPS ELEVATION: 310 m (1019 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

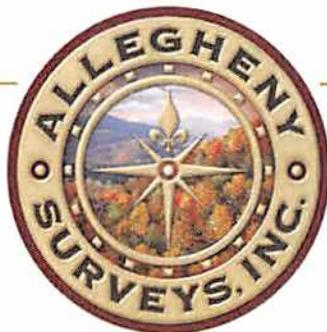
4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Stacy Olson
Signature

PS # 2180
Title

RECEIVED
Office of Oil and Gas
JUL 7 2014
RECEIVED
Office of Oil and Gas
WV Department of
7/3/14 2014
Date
Environmental Protection
WV Department of
Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Rowland B-20 WV 131371 API No. 47-081-00769

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 131371.

All potential water users within 1000' use Public Water.

RECEIVED
 Office of Oil and Gas
 JUL 17 2014
 WV Department of
 Environmental Protection

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

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

RANSON OFFICE

401 South Fairfax Blvd, Suite 3
 Ranson, WV 25438
 phone: 304-724-5008
 fax: 304-724-5010

Topo Quad: Whitesville 7.5'

Scale: 1" = 2000'

County: Raleigh

Date: June 5, 2014

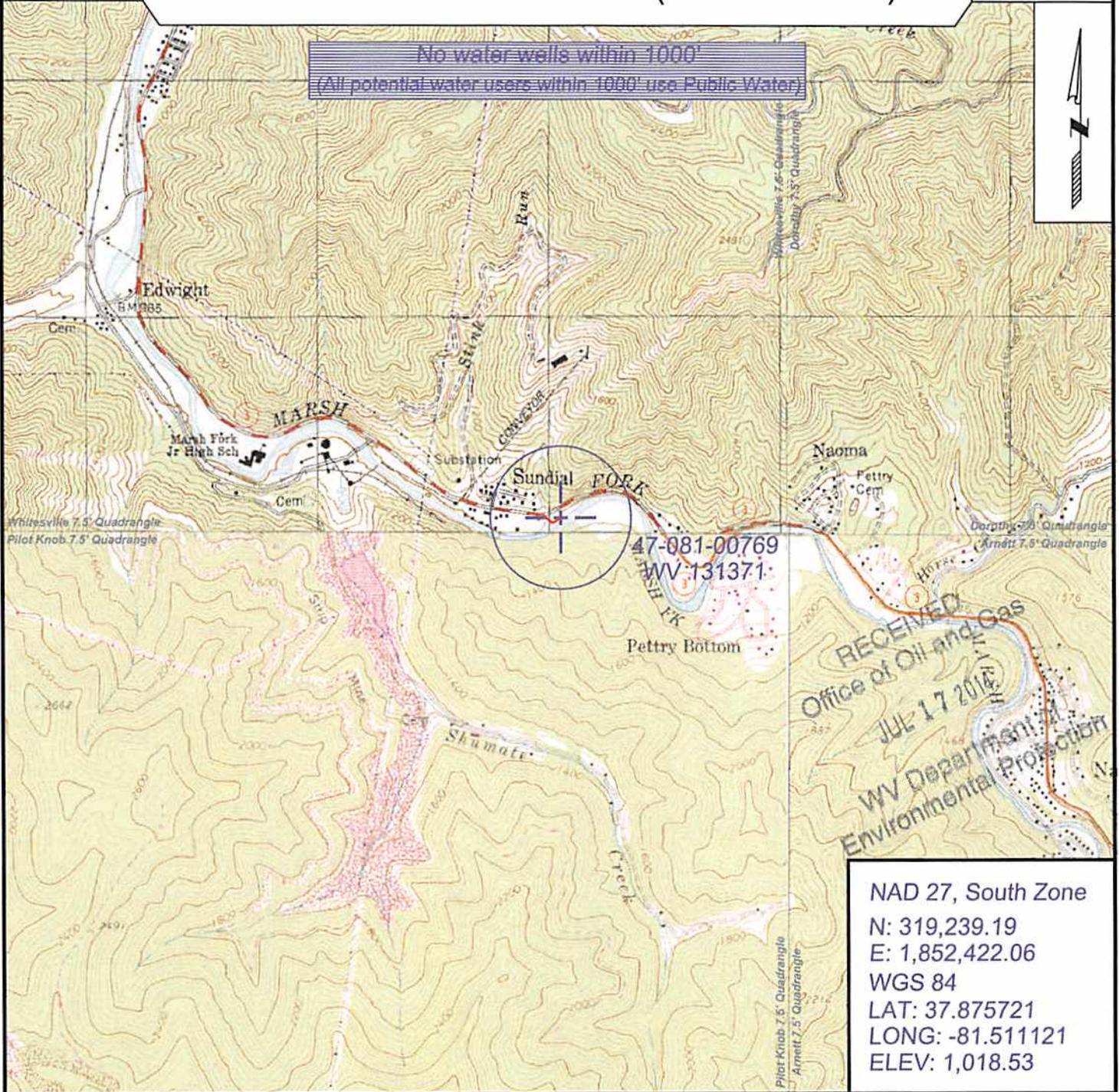
District: Marsh Fork

Project No: 23-06-00-08

Water

47-081-00769 WV 131371 (Rowland B-20)

No water wells within 1000'
(All potential water users within 1000' use Public Water)



NAD 27, South Zone
 N: 319,239.19
 E: 1,852,422.06
 WGS 84
 LAT: 37.875721
 LONG: -81.511121
 ELEV: 1,018.53



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