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**west virginia** department of environmental protection

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

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

July 17, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-501001, 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: 460301 (FEDERAL COAL 10879)

Farm Name: FEDERAL COAL

**API Well Number: 47-501001**

**Permit Type: Plugging**

Date Issued: 07/17/2014

**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.

Date: April 11, 2014  
Operator's Well  
Well No. 460301 Federal Coal 10879  
API Well No.: 47 005 - 01001

*CK 17289  
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  Liquid Injection  Waste Disposal:   
If Gas, Production  Or Underground storage  Deep  Shallow
- 5) Elevation: 1441 Watershed: Hazy Creek  
Location: Crook County: Boone Quadrangle: Williams Mountain  
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 Ross Eller 9) Plugging Contractor:  
Name: 121 Brierhill Dr Name: HydroCarbon Well Service  
Address: Beckley, WV 25801 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.**

*OK gwm*

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 \_\_\_\_\_

## PLUGGING PROGNOSIS

**Federal Coal Co. # 10879 (460301)**

Boone County, W.V.  
 District: Crook  
 API # 47-005-01001

BY: Craig Duckworth  
 DATE: 2/17/14 updated 7/10/14

RECEIVED  
 Office of Oil and Gas

JUL 10 2014

WV Department of  
 Environmental Protection

**CURRENT STATUS:**

11" @ 342' (cem. w/31 sks)  
 8 1/4" @ 1956' (cem. w/35 sks)  
 4 1/2" @ 3187' (cem. w/185sks)  
 Elevation @ 1423'

**TD 3195'**

Fresh Water @ 610'  
 Gas Shows @ 2875' – 3095' (Weir), 2735' (Big Lime)  
 Oil Shows @ None Reported  
 Salt Sand top @ 1390'  
 Coal @ 45' - 48', 195' - 198', 239' – 240', 290' – 293', 540' – 542', 605' – 610'  
 Stimulation @ None Reported

1. Notify inspector, **Ross Eller, 304-932-6844**, 24 hrs. Prior to commencing operations.
2. TIH w/ tubing to 3180'; Set 545' C1A Cement Plug @ 3180' to 2635' (**Gas Show @ 3095' – 2875 Weir & 2735' Big Lime**).
3. TOOH w/ tubing @ 2635', Gel Hole @ 2635' to 2100'.
4. TOOH w/ tubing, Free Point 4.5" csg, cut 4.5" csg @ Free Point, TOOH w/ 4.5" csg.
5. TIH w/ tubing to 2100'; Set 200' C1A Cement Plug @ 2100' to 1900' (**4 1/2" csg cut**).
6. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 4.5" cut. Do not omit any plugs shown below.
7. TIH w/ tubing @ 1900', Gel Hole @ 1900' to 1800'.
8. TOOH w/ tubing. Attempt to pull 8 1/4" csg. If unable to pull free point and cut 8 1/4" at free point
9. TOOH w/ tbg @ 1800'; Set 100' C1A Cement Plug @ 1800' to 1700' (**8 1/4" csg cut**)
10. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 8 1/4" cut. Do not omit any plugs shown below
11. TIH w/ tubing @ 1700', Gel Hole @ 1700' to 1390'
12. TOOH w/ tubing @ 1390'; Set 100' C1A Cement Plug @ 1390' to 1290' (**Salt Sand @ 1390'**).
13. TOOH w/ tubing @ 1290', Gel Hole @ 1290' to 660'.
14. TOOH w/ tubing @ 660'; Set 100' C1A cement plug @ 660' to 560' (**Fresh Water @ 610'**)
15. TOOH w/ tubing @ 560'; Gel Hole @ 560' to 392'.
16. TOOH w/ tubing. Attempt to free point 11" and cut @ free point
17. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 11" cut. Do not omit any plugs shown below
18. TIH w/ tubing @ 392'; Set 392' C1A cement plug @ 392' to 0'. (**11" csg @ 342 & 11" cut, Coal @ 293' - 290', 240' – 239', 198' – 195' 48' - 45'.**)
19. Top off as needed
20. Set monument to WV DEP specs
21. Reclaim Location to WV DEP Specifications.

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Spudder   
Cable Tools   
Storage

FEYTONA

100-1001-REV. 460301

WELL RECORD

Oil or Gas Well  Gas (KIND)

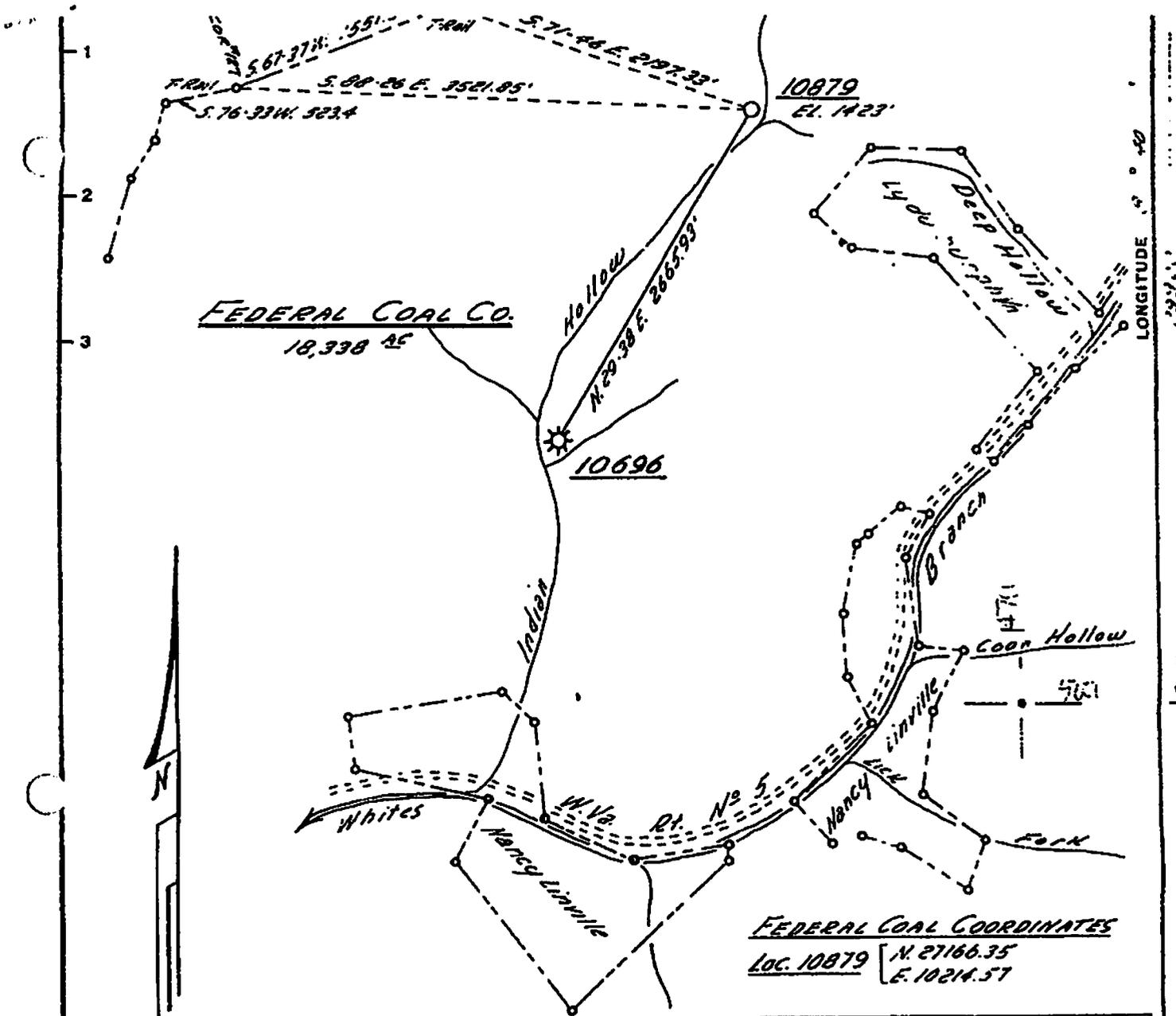
Company Consolidated Gas Supply Corporation  
 Address Clarksburg, W. Va.  
 Federal Coal Company Acres 18,338  
 cation (waters) \_\_\_\_\_  
 Well No. 10879 Hole #2 Elev. 1123'  
 District Crook, County Boone  
 Is surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced 8-8-67  
 Drilling completed 9-9-67  
 Shot Not shot From \_\_\_\_\_ To \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
 Show in Big Logs & Weir \_\_\_\_\_ Co. Ft.  
 Rock Pressure 425 lbs. 24 hrs.  
 Well Acidized (Details) Yes 11-6-67 w/3000 Gal.  
 Well Fractured (Details) Weir - 44,000# Sand, 100 gal. mud acid  
665 bbl fluid 2,000 H.H.P.  
 Result After Treatment (Initial open flow or bbls.) 440 M  
 Rock Pressure After Treatment 485# 1 1/2 days HOURS  
 Fresh Water See log Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Weir & Big Line Depth \_\_\_\_\_ See log

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
11" XWBK	342	342	Size of
8 1/4	1956	1956	Depth set
6 1/4			
5 3/16			
4 1/4	3187	3187	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. 11" w/31 bags 8" w/35 bags  
 CASING CEMENTED. SIZE No. Ft. Date  
 Amount of cement used (bags) 42" with 185 bags  
 Name of Service Co. Well Service Inc. - Halliburton  
 COAL WAS ENCOUNTERED AT. FEET INCHES  
 FEET INCHES FEET INCHES  
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			0	45			
Coal			45	48			
Sand & Shale			48	195			
Coal			195	198			
Sand & Shale			198	239			
Coal			239	240			
Sand & shale			240	290			
Coal			290	293			
Sand & Shale			293	510			
Coal			510	542			
Sand & Shale			542	605			
Coal			605	610	Water		
Sand & Shale			610	1900	Water		
Lime			1900	1910			
Sand & Shale			1910	2155			
Marion Sand			2155	2315	Water		
Sand & Shale			2315	2480			
Big Line			2480	2835	Gas		
Sh			2835	2875			
WEIR			2875	3095	Gas		
Slate & Shells			3095	3203			
TOTAL DEPTH				3195'			

610  
1390'  
RECEIVED  
Office of Oil and Gas  
Big Line (2735)  
APR 2 1968  
Department of Environmental Protection



**FEDERAL COAL CO.**  
18,338 AC

**FEDERAL COAL COORDINATES**  
Loc. 10879 [N. 27166.35  
E. 10214.57

Minimum Error of Closure  $1''$  in 200'  
 Source of Elevation U.S.C.F.G.S. B.M. #K 186 STD. DISC IN  
 BRIDGE WALL IN MOUTH OF INDIAN HOLLOW.  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowl-  
 edge and belief and shows all the information required by paragraph 6 of the rules  
 and regulations of the oil and gas section of the mining laws of West Virginia."

New Location.....  
 Drill Deeper.....  
 Abandonment.....

MAP SHEET 162W 5-99 W-62 F.B. 1417 P. 12-14

Company	CONSOL. GAS SUPPLY CORP.		
Address	CLARKSBURG, W. VA.		
Farm	FEDERAL COAL COMPANY		
Tract	Acres	18,338	Lease No. 46408
Well (Farm) No.	Serial No.	10879	
Elevation (Spirit Level)	1423'		
Quadrangle	PEYTONA S.W.		
County	BOONE	District	CROOK

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS  
 OIL AND GAS DIVISION  
 CHARLESTON  
 APR 11 2014  
**WELL LOCATION MAP**  
 FILE NO. *Boo-1001*  
 Department of Environmental Protection  
 † Denotes location of well on United States  
 Topographic Maps, scale 1 to 62 500 latitude

1) Date: April 11, 2014  
2) Operator's Well Number  
460301 Federal Coal 10879  
3) API Well No.: 47 005 - 01001  
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 Federal Coal Co Inc  
Address 601 Sixth Ave  
Suite 200  
St Albans WV 25177  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Ross Eller  
Address 121 Brierhill Dr  
Beckley, WV 25801  
Telephone 304.932.6844

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Federal Coal Co Inc  
601 Sixth Ave  
Address Suite 200  
St Albans WV 25177  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name Pine Ridge Coal Company LLC  
Address 500 Lee St E  
Suite 202  
Charleston, WV 25301

**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.

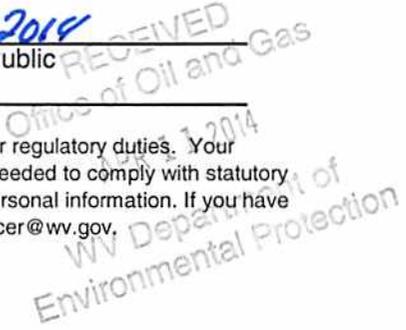
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental 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  
Victoria J. Roark  
Permitting Supervisor  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 9 day of April, 2014  
My Commission Expires: 9-24-22



Notary Public  
*[Signature]*



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).

501001P

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0411102286

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7013 2630 0001 4239 3468

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Postage	\$		Postmark Here
Certified Fee			
Return Receipt Fee (Endorsement Required)			
Restricted Delivery Fee (Endorsement Required)			
Total Postage			
Sent To: Federal Coal Co Inc 601 Sixth Ave Suite 200 St Albans, WV 25177 460301 & 460131 Plugging			

601 Sixth Ave  
Suite 200  
St Albans, WV 25177

PS Form 3800, August 2009

See Reverse for Instructions

- 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:  
Federal Coal Co Inc  
601 Sixth Ave  
Suite 200  
St Albans, WV 25177  
460301 & 460131 Plugging

2. Article Number  
(Transfer from service label)

7013 2630 0001 4239 3468

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  X  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<sup>®</sup>  Priority Mail Express<sup>™</sup>  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

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

501 001 P

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04/10/2014  
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\$08.03  
US POSTAGE  
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7013 2630 0001 4239 3475

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**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Post	Pine Ridge Coal Company, LLC	
Sent To	500 Lee St. E.	
Street, Apt. 1 or PO Box #	Suite 202	
City, State, Z	Charleston, WV 25301	460301 & 460131 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

Pine Ridge Coal Company, LLC  
500 Lee St. E.  
Suite 202  
Charleston, WV 25301

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature: <b>X</b> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below: _____</p>
<p>1. Article Addressed to:</p> <p>Pine Ridge Coal Company, LLC 500 Lee St. E. Suite 202 Charleston, WV 25301 460301 &amp; 460131 Plugging</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>
<p>2. Article Number (Transfer from service)</p> <p>7013 2630 0001 4239 3475</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

PS Form 3811, July 2013 Domestic Return Receipt

RECEIVED  
LET MAIL AND GAMES

501001 P



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

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04/10/2014

US POSTAGE



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\$02.24<sup>0</sup>

ZIP 26330  
041110228892

Ross Eller  
121 Brierhill Dr  
Beckley, WV 25801

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Department of Oil and Gas

WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
460301 Federal Coal 10879  
3) API Well No.: 47 005 - 01001

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM**  
**GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_  
Watershed: Hazy Creek Quadrangle: Williams Mountain  
Elevation: 1441 County: Boone District: Crook

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X  
Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml 20 ml.

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number \_\_\_\_\_
- Reuse (at API Number) \_\_\_\_\_
- Offsite Disposal Permit #. \_\_\_\_\_
- Other: Explain \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. \_\_\_\_\_  
If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used? \_\_\_\_\_

Will closed loop system be used? \_\_\_\_\_

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. \_\_\_\_\_  
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust \_\_\_\_\_  
Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria Roark*

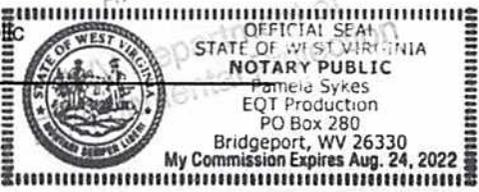
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 9 day of April, 2014

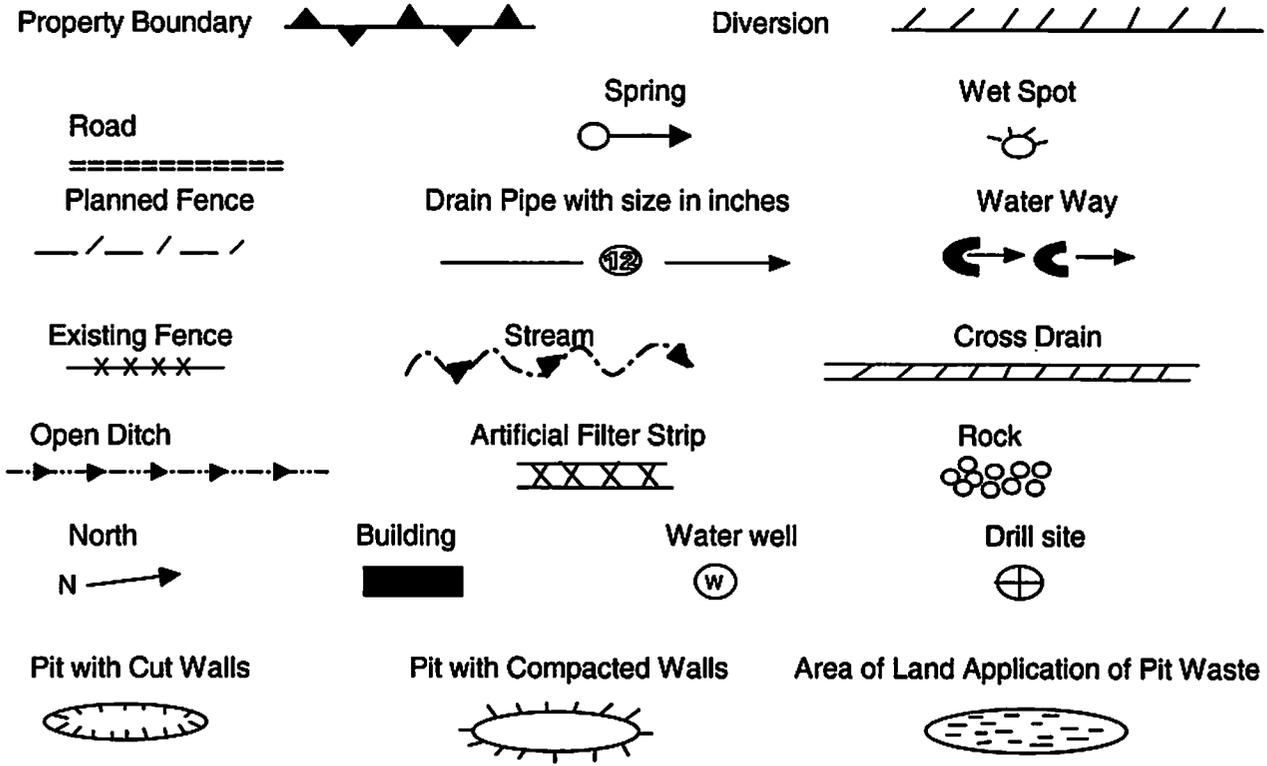
*Pamela Sykes* Notary Public  
My Commission Expires 8-24-22

RECEIVED  
Office of Oil and Gas  
APR 2 2014



**OPERATOR'S WELL NO.:**  
**460301 Federal Coal 10879**

**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: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed?        Yes        No

501001P

Topo Quad: Williams Mountain 7.5'

Scale: 1" = 2000'

County: Boone

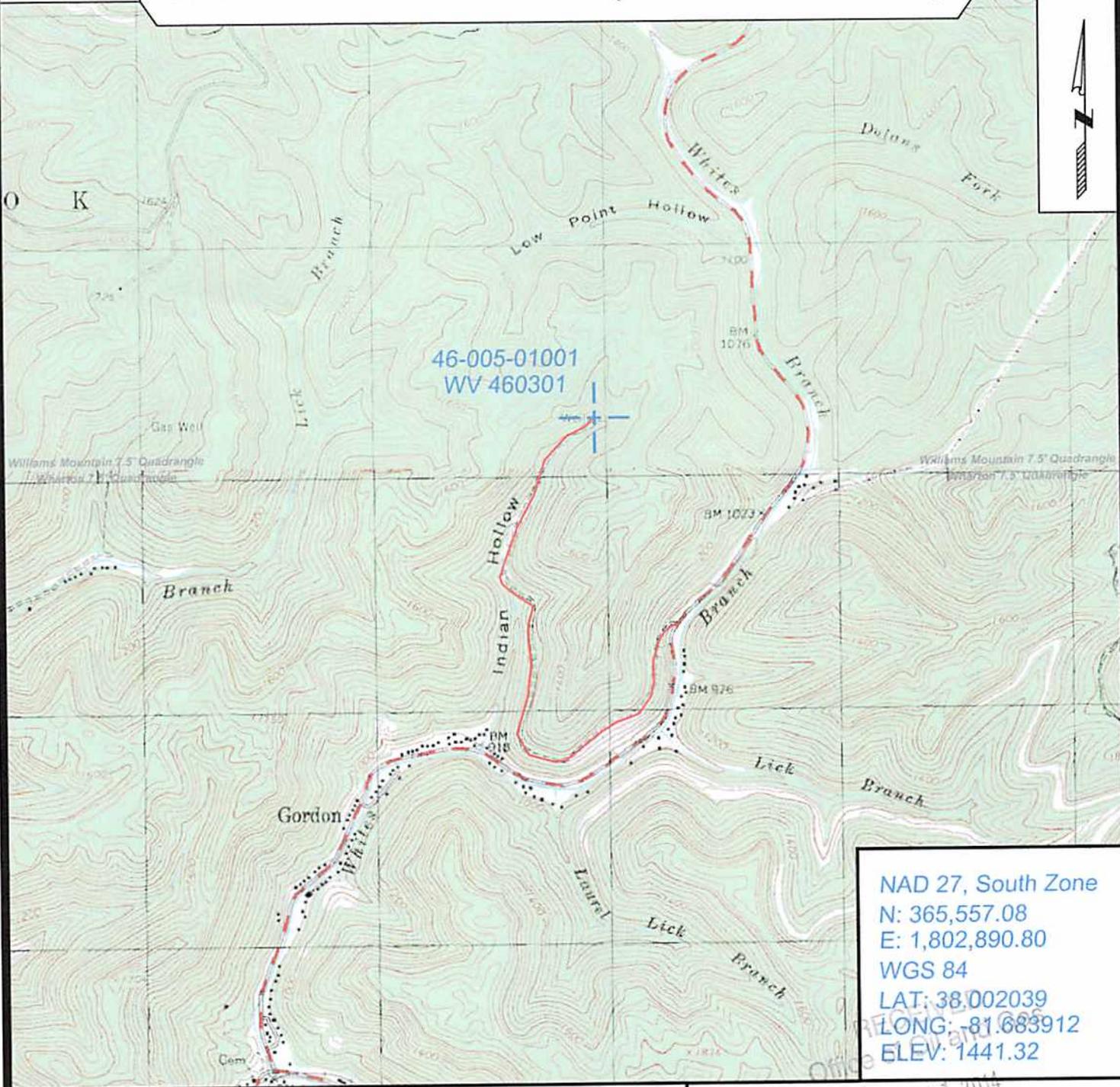
Date: April 2, 2014

District: Crook

Project No: 140-16-00-07

47-005-01001 WV 460301 (Federal Coal 10879)

Topo



NAD 27, South Zone  
 N: 365,557.08  
 E: 1,802,890.80  
 WGS 84  
 LAT: 38.002039  
 LONG: -81.683912  
 ELEV: 1441.32

PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330

APR 11 2014

West Virginia Department of Environmental Protection

SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
P.O. BOX 438  
BIRCH RIVER, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608



WW-7  
4-02-14



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

API: 47-005-01001 WELL NO.: WV 460301 (Federal Coal 10879)

FARM NAME: Federal Coal Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Boone DISTRICT: Crook 1

QUADRANGLE: Williams Mountain 7.5' 683

SURFACE OWNER: Federal Coal Company

ROYALTY OWNER: Federal Coal Company, et al.

UTM GPS NORTHING: 4206262

UTM GPS EASTING: 439956 GPS ELEVATION: 439 m (1441 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
- 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.

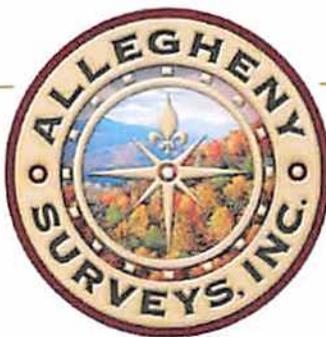
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Office of Oil and Gas

*Steve Osher*  
Signature  
4/7/14  
Date

PS # 2180  
Title

APR 11 2014

WV Department of  
Environmental Protection



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Federal Coal 10879 - WV 460301 - API No. 47-005-01001

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 460301.

**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  
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**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

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 WV Department of Environmental Protection

501001P

Topo Quad: Williams Mountain 7.5'

Scale: 1" = 2000'

County: Boone

Date: April 2, 2014

District: Crook

Project No: 140-16-00-07

Water

47-005-01001 WV 460301 (Federal Coal 10879)

0 potential water wells within 1000'

46-005-01001  
WV 460301



NAD 27, South Zone  
N: 365,557.08  
E: 1,802,890.80  
WGS 84  
LAT: 38.002039  
LONG: -81.683912  
ELEV: 1441.32



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
1-800-482-8606  
P.O. BOX 438  
BIRCH RIVER, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR: *Office of Environmental Protection*  
**EQT Production Company**  
P.O. Box 280  
Bridgeport, WV 26330  
APR 11 2014  
Office of Environmental Protection