



---

**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

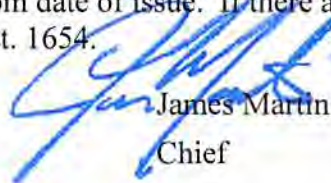
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-500977, 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: 460131 (FEDERAL COAL 10696)

Farm Name: FEDERAL COAL COMPANY

**API Well Number: 47-500977**

**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.

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

Date: April 11, 2014  
Operator's Well  
Well No. 460131 Federal Coal 10696  
API Well No.: 47 005 - 00977

*CK 17284  
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:   1131   Watershed: Whites Creek  
Location:            Crook   County:            Boone   Quadrangle:            Wharton    
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   Ross Eller    
Name:   121 Brierhill Dr    
Address:   Beckley, WV 25801  

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 \_\_\_\_\_

Date \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
APR 11 2014  
WV Department of  
Environmental Protection

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

Date: April 11, 2014  
Operator's Well  
Well No. 460131 Federal Coal 10696  
API Well No.: 47 005 - 00977

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: 1131 Watershed: Whites Creek  
Location: Crook County: Boone Quadrangle: Wharton  
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 Ross Eller  
Name: 121 Brierhill Dr  
Address: Beckley, WV 25801
- 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

Date 4/16/14

PLUGGING PROGNOSIS

**Shonk # 14 (460131)**

Kanawha, County, W.V.  
API # 47-039-04624

BY: Beau Fry  
DATE: 3/24/14

**CURRENT STATUS:**

12 3/4" @ 31' cmt w/ 12 cuft  
8 5/8" @ 1640' cmt w/ 502 cuft  
4 1/2" @ 2848' (194 sks)

Elevation @ 1177'  
Fresh Water @ 90'  
Gas Shows @ None reported  
Oil Shows @ None Reported  
Salt Sand top @ Est 1543'  
Coal @ 80'-85'  
Stimulation @ Frac - L Weir Perfs @ 2627'-2696'

1. Notify inspector, Terry Urban, 304-549-5915 24 hrs. prior to commencing operations.
2. TIH w/ tubing to 2700'; Set 300' C1A Cement Plug @ 2700' to 2400' (L Weir Perf). *GEL HOLE FROM 2850' - 2700'*
3. TOOH w/ tubing @ 2400', Gel Hole @ 2400' to 2100'.
4. TOOH w/ tubing, Free Point 4.5" csg, cut 4.5" csg @ Free Point, TOOH w/ 4.5" csg.
5. 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.
6. TIH w/ tubing @ 2100'; Set 100' C1A Cement Plug @ 2100' to 2000' (Insurance plug).
7. TOOH w/ tubing @ 2000', Gel Hole @ 2000' to 1750'.
8. TOOH w/ tubing @ 1750'; Set 310' C1A Cement Plug @ 1750' to 1440' (8 5/8" csg pt Est top of Salt Sand)
9. TOOH w/ tubing @ 447'; Gel Hole @ 1440' to 800'.
10. TOOH w/ tubing, Free Point 8 5/8" csg, cut 8 5/8" csg @ Free Point, TOOH w/ 8 5/8" csg.
11. 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 5/8" cut. Do not omit any plugs shown below.
12. TIH w/ tubing @ 800'; Set 100' C1A Cement Plug @ 800' to 700'. (Insurance plug)
13. TOOH w/ tubing @ 700'; Gel Hole @ 700' to 200' <sup>250'</sup>
14. TOOH w/ tubing @ ~~200'~~ <sup>250'</sup>; Set ~~200'~~ <sup>250'</sup> C1A cement plug @ ~~200'~~ <sup>2</sup> to Surface'. (+ Coal Show I FW show, 12 3/4" csg pt)
15. Top off as needed
16. Set monument to WV DEP specs
17. Reclaim Location to WV DEP Specifications.

OK  
9/22/14  
6/26/14

AS LONG AS THE CURRENT STATUS OF CASING IS CORRECT,  
IT DOES NOT MATCH THE WELL RECORD YOU SENT WITH APPLICATION.  
9/22/14

RECEIVED  
Office of Oil and Gas  
APR 11 2014  
WV Department of  
Environmental Protection

500977 P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 2

Spydler   
Cable Tools   
Storage

Quadrangle BALD KNOB

WELL RECORD

Permit No. B00-977 460131

Oil or Gas Well Gas  
(KIND)

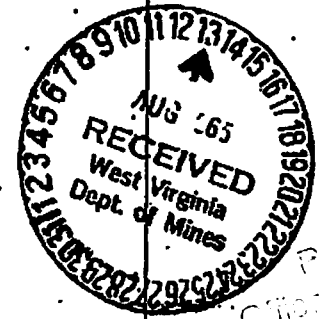
Company Consolidated Gas Supply Corp.  
 Address Clarksburg, W. Va.  
 Farm Federal Coal Co. Acres 18,338  
 Location (waters) \_\_\_\_\_  
 Well No. 10696 Elev. 1110'  
 District Crook, County Boone  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced 2-13-65  
 Drilling completed 4-18-65  
 Date Shot Not shot From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
 Volume 11 M Cu. Ft.  
 Rock Pressure 3924 lbs. 2 1/2 hrs.  
 Oil 2500 Small bbls., 1st 24 hrs.  
 WELL ACIDIZED No  
 WELL FRACTURED 5-25-65

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	<u>40</u>	<u>40</u>	
10	<u>497</u>	<u>497</u>	Size of
8 1/4	<u>1808</u>	<u>1808</u>	
6 1/4			Depth set
<del>5 3/8</del> <u>4 1/2</u>	<u>2850</u>	<u>2850</u>	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
4 1/2" casing cemented with 165 bags  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
See log  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT 735 M  
 ROCK PRESSURE AFTER TREATMENT 410# in 14 days  
 Fresh Water See log Feet \_\_\_\_\_ Salt Water See log Feet \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	40			
Sand, Gray			40	84			
<u>Coal</u>			84	87			
Slate & Shells			87	120			
Sand			120	185			
Slate			185	212			
Sand			212	217			
<u>Coal</u>			217	220			
Slate			220	228			
Sand			228	250			
Slate			250	255			
Sand			255	265			
Slate			265	325			
Sand2			325	341			
Slate			341	350			
Lime			350	365			
S			365	386			
Sand			386	424			
Slate			424	432			
Lime			432	445			
Slate			445	475			
Sand			475	504			
Slate			504	518			
Sand							

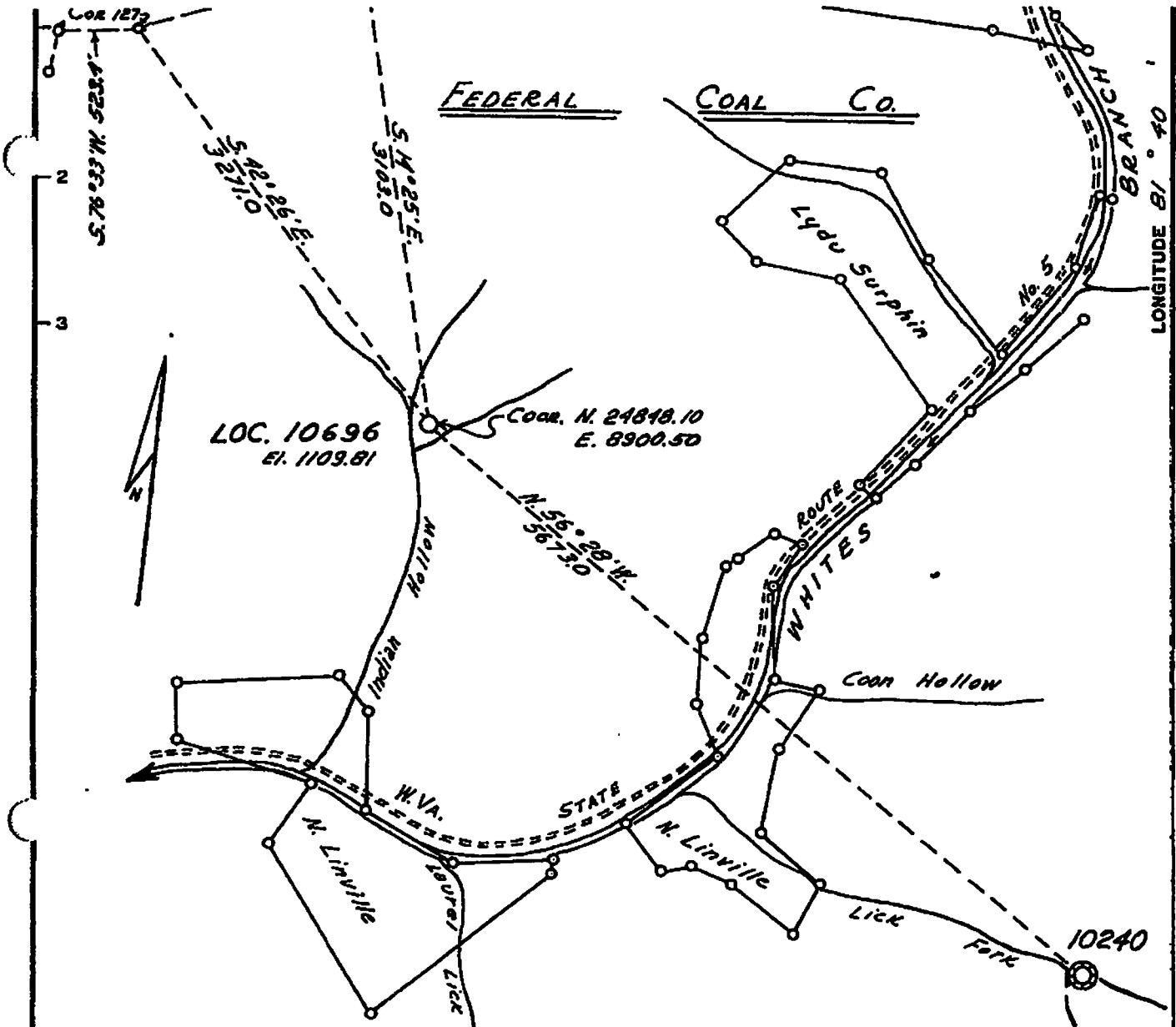


RECEIVED  
 Office of Oil and Gas  
 APR 11 2014  
 Dept. of Energy and Environmental Protection

Sand	815	880		
Plate	880	900		
Sand	900	915		
Slate Shells	915	965		
Sand, Salt	985	1,218		
Slate & Shells	1,218	1,245		
Gritty Lime	1,245	1,280		
Slate	1,260	1,330		
Lime	1,330	1,368		
Sand	1,368	1,580		
Gritty Lime	1,580	1,600		
Sand	1,600	1,645		
G. Lime	1,645	1,703		
Sand	1,703	1,755		
Slate	1,755	1,802		
Gritty Lime	1,802	1,855		
Maxton Sand	1,855	2,033		
Slate & Shells	2,033	2,095		
Red Rock	2,095	2,125		
Slate & Shells	2,125	2,180		
Lt. Lime	2,180	2,215		
Big Lime	2,215	2,518		
Red Injun	2,518	2,550		
Gray Inj.	2,550	2,570		
Slate & Shells	2,570	2,630		
Weir Sand	2,630	2,844	Gas	2713-21'
Slate & Shells	2,844	2,962		
Br. Shale	2,962	2,972		
Berea Sand	2,972	2,985		
Slate & Shells	2,985	3,027		
Depth		3,027		

Well was cemented back solid to 2850' Present Total Depth

RECEIVED  
 Office of Oil and Gas  
 APR 11 2014  
 W/ Department of  
 Environmental Protection



Minimum Error of Closure. . . . . 1 in 200  
 Source of Elevation. . . . . FROM USC & GS BM = K186  
 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 knowledge 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 162 W 5-99 N-62 BK. 1329 P 2-6

Company	HOPE NATURAL GAS CO.		
Address	CLARKSBURG, W. VA.		
Farm	FEDERAL COAL CO.		
Tract	Acres	Lease No.	
	18.348	46408	
Well (Farm) No.	Serial No. 10696		
Elevation (Spirit Level)	1109.81		
Quadrangle	BALD KNOB N.W.		
County	District		
BOONE	CROOK		

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. Boo-977

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border



500977A

WW-4-A  
Revised 6/07

1) Date: April 11, 2014  
2) Operator's Well Number  
460131 Federal Coal 10696  
3) API Well No.: 47 005 - 00977  
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 Brierrhill 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  
Address 601 Sixth Ave  
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:  
By: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2014  
My Commission Expires: 8-24-22

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

RECEIVED  
Office of Oil and Gas  
WV Department of  
Environmental Protection  
APR 11 2014

500977P

RECEIVED  
Department of Oil and Gas  
APR 11 2014  
Environmental Protection  
WV Department of

FIRST-CLASS  
\$08.0  
ZIP 2631  
041L1022E

recpost.4f  
04/10/2014  
US POSTAGE



7013 2630 0001 4239 3468  
7013 2630 0001 4239 3468

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

**OFFICIAL USE**

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

Postmark Here

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

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

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. 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 3468

PS Form 3811, July 2013

Domestic Return Receipt

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

500971A

WV Department of Environmental Protection  
APR 11 2014  
Office of Oil and Gas  
FIRST CLASS MV  
\$08.03  
negpost  
04/10/2014  
US POSTAGE  
ZIP 26330  
0411102266E

7013 2630 0001 4239 3475  
7013 2630 0001 4239 3475

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

**OFFICIAL USE**

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

Postmark Here

Sent to Pine Ridge Coal Company, LLC  
 500 Lee St. E.  
 Suite 202  
 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          If YES, enter delivery address below: <input type="checkbox"/> No</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  <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>
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	

**EQT**

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

Ross Eller  
121 Brierhill Dr  
Beckley, WV 25801

RECEIVED  
Office of Oil and Gas  
APR 11 2014  
WV Department of  
Environmental Protection

neopost  
04/10/2014  
**US POSTAGE** \$02.24<sup>00</sup>



FIRST-CLASS MAIL  
ZIP 26330  
041L10228892

500977P

**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: Whites Creek Quadrangle: Wharton

Elevation: 1131 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

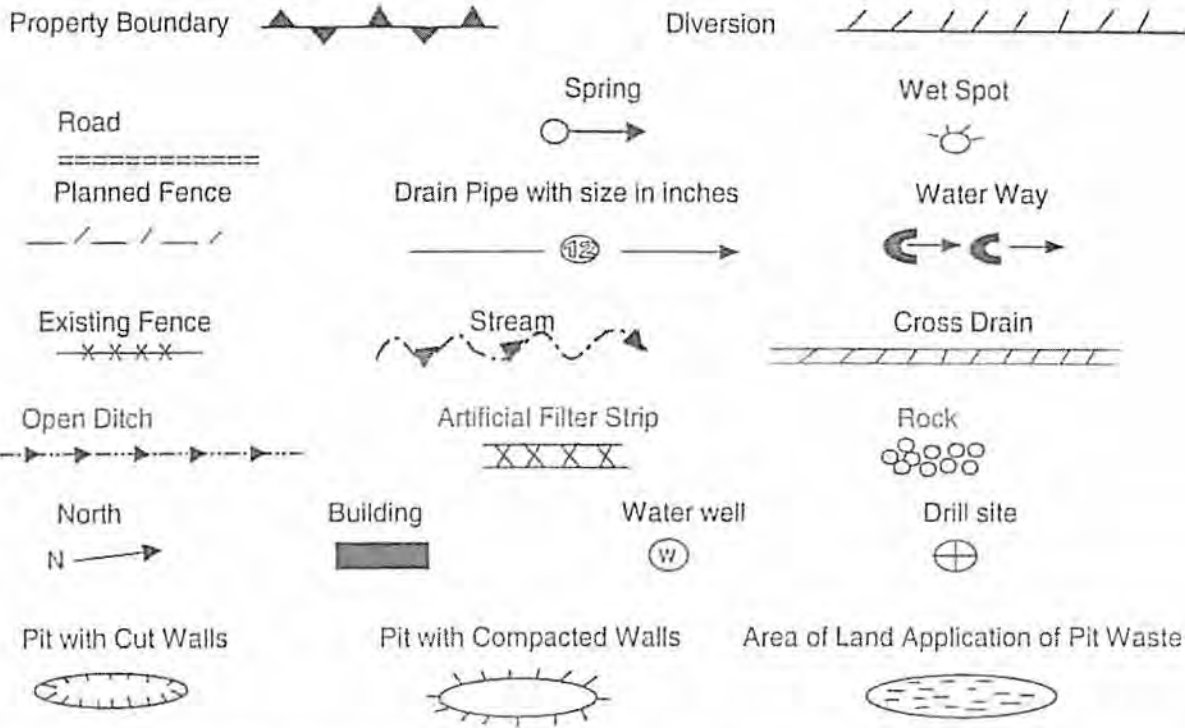
My Commission Expires 8-24-22

RECEIVED  
Office of Oil and Gas  
APR 11 2014

OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
**NOTARY PUBLIC**  
Pamela Sykes  
EQT Production  
PO Box 280  
Bridgeport, WV 26330  
My Commission Expires Aug. 24, 2022

OPERATOR'S WELL NO.:  
460131 Federal Coal 10696

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

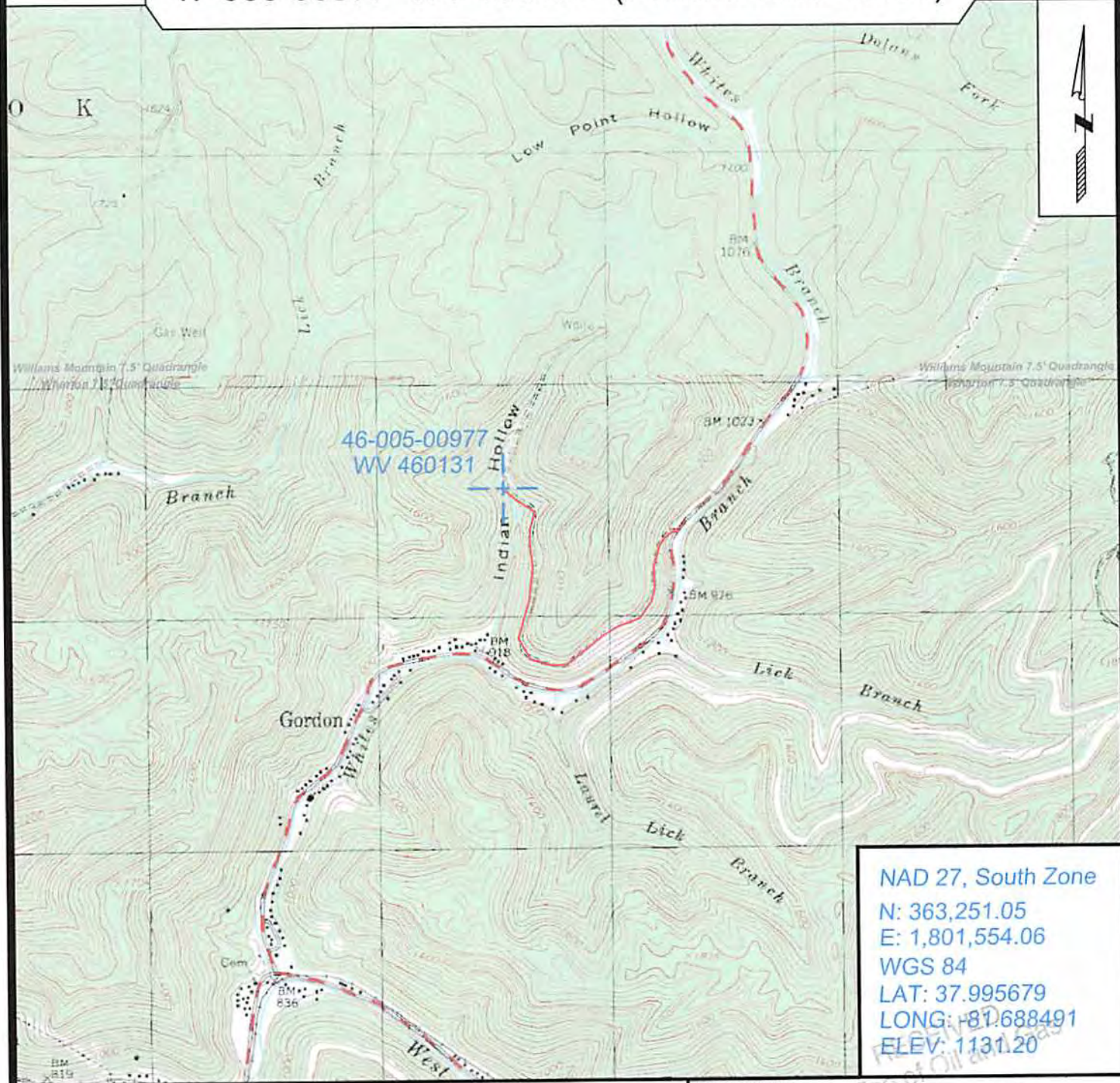
Title: W.D.S. S.A.D. Final Date: 4/16/14  
Field Reviewed? Yes  No

500977P

Topo Quad: Wharton 7.5' Scale: 1" = 2000'  
 County: Boone Date: April 1, 2014  
 District: Crook Project No: 140-16-00-07

47-005-00977 WV 460131 (Federal Coal 10696)

Topo



NAD 27, South Zone  
 N: 363,251.05  
 E: 1,801,554.06  
 WGS 84  
 LAT: 37.995679  
 LONG: -81.688491  
 ELEV: 1131.20



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:  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330

Office of Oil and Gas  
 April 11 2014  
 WV Department of Environmental Protection

WW-7  
4-02-14



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

API: 47-005-00977 WELL NO.: WV 460131 (Federal Coal 10696)  
FARM NAME: Federal Coal Company  
RESPONSIBLE PARTY NAME: EQT Production Company  
COUNTY: Boone 5 DISTRICT: Crook 1  
QUADRANGLE: Wharton 7.5' 673  
SURFACE OWNER: Federal Coal Company  
ROYALTY OWNER: Federal Coal Company, et al.  
UTM GPS NORTHING: 4205559  
UTM GPS EASTING: 439548 GPS ELEVATION: 345 m (1131 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 Ober  
Signature  
4/7/14  
Date

PS # 2180  
Title

RECEIVED  
Office of Oil and Gas  
APR 11 2014  
WV Department of Environmental Protection





## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Federal Coal 10696 - WV 460131 - API No. 47-005-00977

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 460131.

**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

RECEIVED  
Office of Oil and Gas  
West Virginia Department of  
Environmental Protection

500977A

Topo Quad: Wharton 7.5'

Scale: 1" = 2000'

County: Boone

Date: April 1, 2014

District: Crook

Project No: 140-16-00-07

Water

47-005-00977 WV 460131 (Federal Coal 10696)

0 potential water wells within 1000'

46-005-00977  
WV 460131

NAD 27, South Zone  
N: 363,251.05  
E: 1,801,554.06  
WGS 84  
LAT: 37.995679  
LONG: -81.688491  
ELEV: 1131.20



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:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330

APR 11 2014