



**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

March 26, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10900627, 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.

A blue ink signature of James Martin.

James Martin  
Chief

Operator's Well No: A-5-1380  
Farm Name: CUB CREEK COAL CO.  
**API Well Number: 47-10900627**  
**Permit Type: Plugging**  
Date Issued: 03/26/2014

Promoting a healthy environment.

03/28/2014

## 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

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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.

*CK 306126  
10000*

*109 00627P*

Date: February 27, 2014  
Operator's Well  
Well No. 130381 Cub Creek Coal A 5  
API Well No.: 47 109 - 00627

**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: 1207 Watershed: Right Fork of Muzzle Creek  
Location: Huff Creek 5 County: Wyoming 10<sup>th</sup> Quadrangle: Gilbert 7.5 363  
District:         

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

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

8) Oil & Gas Ross Eller  
Name: 121 Brierhill Drive  
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.**

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Office of Oil and Gas  
MAR 06 2014  
WV Department of  
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

03/28/2014

PLUGGING PROGNOSIS

130381

Wyoming County, West Virginia  
API # 47-109-00627

BY: Beau Fry  
DATE: 12/11/13

CURRENT STATUS:

- 13 3/8" csg @ 91'
- 10 3/4" csg @ 672'
- 5 1/2" csg @ 3598' - 5 1/2" x 7" packer @ 3,569' - Cemented to 3609'
- 2 3/8" tubing @ 3675' ? 3657' ?
- TD @ 3636'

Oil Shows - None Reported FW Shows - 15', 35', 110' Coal Shows - 110'-113', 98' - 245'-247', 725' - 727' Salt Sand Not Reported on record Gas shows - 3568'-3610' Berea gas show and frac, 2422' - 2500' Slate Shell gas show, 1367'-1425' Sand show. Elevation - 1204'

Stimulation: Frac the Berea

1. Notify State Inspector, **Ross Eller**, 1-304-932-6844 48 hrs prior to commencing operations.
2. TOOH w/ tubing and Packer @ 3569', check condition and re tally pipe on the way back in hole.
3. TIH w/ 2" tubing @ 3568'; set 268' C1A cement plug @ 3568' to 3300'. ( Berea Show and frac, 5 1/2" csg pt)
4. TOOH w/ 2" tubing @ 3300'; Gel hole @ 3300' to 2422'.
- ~~5. TOOH w/ 2" tubing, Free Point 5.1/2" csg, cut 5.1/2" csg @ free point, TOOH w/ 5 1/2" csg.~~
- ~~6. Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops, Gas, Oil, Coal & FW shows below 5 1/2" cut and do not omit any plugs shown.~~
7. TIH w/ 2" tubing @ 2422'; set 100' C1A cement plug @ 2422' to 2322'. ( Gas show Slate Shell)
8. TOOH w/ 2" tubing @ 2322'; Gel hole @ 2322' to 1367'.
9. TOOH w/ 2" tubing @ 1367'; set 367' C1A cement plug @ 1367' to 1000'. ( gas show ,Elevation plug)
10. TOOH w/ 2" tubing @ 1997'; Gel hole @ 1000' to 800'.
11. TOOH w/ 2" tubing @ 800'; set 200' C1A cement plug @ 800' to 600'. ( Coal show, 10 3/4" csg pt)
12. TOOH w/ 2" tubing @ 600'; Gel hole @ 600' to 310'.
13. TOOH w/ 2" tubing, Free Point 10 3/4" csg, cut 10 3/4" csg @ free point, TOOH w/ 10 3/4" csg. Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas, Oil, Coal, Elevation & FW shows below 10 3/4" cut and do not omit any plugs shown.
14. TIH w/ 2" tubing @ 310'; set 310' C1A cement plug to surface. (3 FW shows, 3 Coal show, 13,3/8" csg pt).
15. Top off as needed.
16. Set Monument to WV - DEP Specifications
17. Reclaim Location & Roads to WV - DEP Specifications.

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3a) 5 1/2" CASING HAS A LEAD PACKER ON BOTTOM WITH A R/L NIPPLE AT 3031'. IF YOU CAN ROTATE OUT OF PACKER, PULL 3031' OF 5 1/2" CASING OUT OF HOLE. IF NOT CUT 5 1/2" @ FREE POINT, FREE POINT SHOULD BE @ 3300' OR ABOVE. SET 100' C1A PLUG IN/OUT OF CUT. CONTINUE TO 4. NOTING THAT HOLE WILL BE GELLED FROM THIS POINT TO 2422', CONT TO 7. CONT TO 7.

JWM  
3/25/2014

03/28/2014

Cub Creek Coal # 4

10900627A

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 16

Quadrangle Gilbert 7 SE  
Permit No. WYO-627

WELL RECORD

Oil or Gas Well gas  
(KIND)

Company Columbian Fuel Corporation  
Address Box 873, Charleston 23, W. Va.  
Farm Cub Creek Coal Co Acres 1466, 23  
Location (waters) Little Huff Creek  
Well No. 5 - GW-1380 Elev. 1204.25'  
District Huff Creek County Wyoming  
The surface of tract is owned in fee by A. F. Leckie, Sr., et al  
79 E. State Street Address Columbus 15, Ohio  
Mineral rights are owned by same  
(for further add. contact C. F. Corp)  
Address

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	28'	28'	Kind of Packer
18"			Lead Btm. Hole
1 3/8" 48#	91'7"	91'7"	Size of P-1/2x7"
3/4" 32#	672'11"	672'11"	
8 3/4" 23#	268'15"	pulled	Depth set 3,569'
5 3/16" 14#	3598'5"	3598'5"	SLM
3			Perf. top
2 3/8" 4#	3657'	3657'	Perf. bottom
Lines Used w/	2" cage as siphon		Perf. top
	string		Perf. bottom

Drilling commenced 10-2-62  
Drilling completed 1-18-63  
Date Shot not shot From To  
With  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ show \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
WELL ACIDIZED not acidized  
WELL FRACTURED see reverse side

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
see reverse side

COAL WAS ENCOUNTERED AT 98 FEET 12 INCHES  
110 FEET 36 INCHES 245 FEET 24 INCHES  
725 FEET 24 INCHES FEET INCHES

RESULT AFTER TREATMENT 283,000 cubic feet (Berea)  
ROCK PRESSURE AFTER TREATMENT 48 hours 660#  
Fresh Water 15' 35' 110' Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	25	F. water	15'	hole full
Sand			25	53	F. water	35'	hole full
Slate			53	90			
Sand			90	98			
Show of Coal			98	99			
Slate			99	105			
Sand			105	110	F. water	110'	hole full
Coal			110	113			
Sand			113	220			
Slate			220	245			
Coal			245	247			
Slate and Shells			247	378			
Sand			378	446			
Slate and Shells			446	487			
Sand			487	663			
Slate			663	668			
Sand			668	725	675'DLM=668'SLM,		
Coal			725	727			
Sand			727	832			
Slate			832	837			
Sand			837	922			
Slate			922	927			
Sand			927	937			
Slate			937	940			
Sand			940	945			
Slate			945	1015			
Sand			1015	1127			



(over)

03/28/2014

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1127	1132			
Sand			1132	1172			
Slate			1172	1178			
Sand			1178	1225			
Slate and Shells			1225	1263			
Sand			1263	1342			
Slate and Shells			1342	1350			
Sand			1350	1360			
Slate and Shells			1360	1367			
Sand			1367	1425	Gas	1400'	show
Slate and Shells			1425	1445			
Sand			1445	1455			
Red Rock			1455	1460			
Slate and Shells			1460	1548			
Sand			1548	1590			
Slate			1590	1665			
Sand			1665	1709			
Slate			1709	1780			
Sand			1780	1786			
Slate and Shells			1786	1805			
Lime			1805	1825			
Red Lime			1825	1877			
Slate and Shells			1877	1890			
Sand			1890	1940			
Red Rock			1940	2065			
Sand			2065	2255			
Red Rock			2255	2275			
Slate			2275	2355			
Red Rock			2355	2382			
Lime			2382	2422			
Slate and Shells			2422	2500 DLM			
				2487 SLM	Gas	2547'	15 MCF
Lime			2487 SLM	2986	2659'SLM=2672'DLM		
Red Sand			2986	3070			
Slate and Shells			3070	3103			
Grey Sand			3103	3253			
Slate and Shells			3253	3551			
Shale			3551	3568			
Berea Sand			3568	3610	3569'SLM=3570'DLM		
Slate			3610	3612	Gas	3576-80'	show
Lime			3612	3636			
Total depth-----				3636'			
Filled with cement to-----				3609'			
<b>FRACTURED THE BEREA 1-21-63</b>							
Pumped in 1500 gallons acid-displaced slowly after loaded hole at 600#-broke down with 2 Allison's at 1,000#. Pumped in 53,000# sand at 1,000# - 39 bbls/min. Pressure at end dropped to 850#. Started sand 1/2#/gallon-went to 2-1/2#/gallon maximum. Used 871 bbls. water and sand, 1103 bbls. water total, 1 drum TMN, 1 drum T-08. 15 minutes, after Shut, down 200#-opened-flowed and died. Swabbed. Final open flow 45/10 W. 2" = 283MCF.							
<b>CASING RECORD</b>							
10-19-62	Ran 10-3/4" casing with shoe 668'SLM. Gelled with 10 bags Gel, 4 bags Gelflake, 4 bags cotton seed hulls and 14 bags Baroid Mud.						
12-15-62	Ran 7" casing at 2659'SLM on shoe-set in 20' red mud.						
1-8-63	Ran 5-1/2" casing 3569'SLM--R/L nipple at 3031' with Lead Packer on bottom. Cemented with 15 sacks.						

RECEIVED  
Office of Oil and Gas

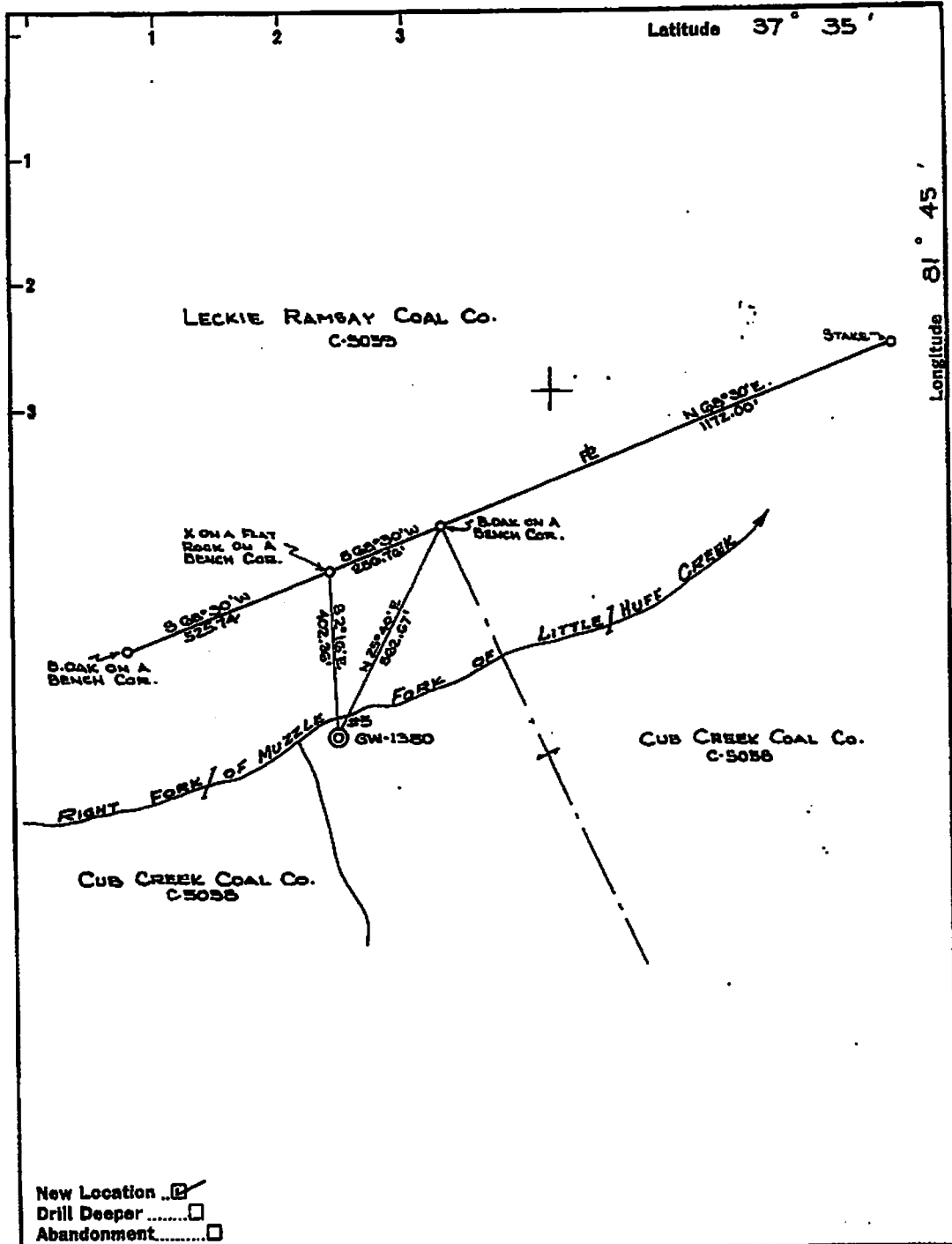
Date February 15 19 63

APPROVED Columbian Fuel Corporation, Owner  
By W. S. Moore, Division Superintendent  
(Title)

MAR 6 2014

WV Department of  
Environmental Protection

03/28/2014



New Location   
 Drill Deeper   
 Abandonment

Company COLUMBIAN CARBON Co.  
 Address Box 873 CHARLESTON, W.VA.  
 Farm CUB CREEK COAL Co.  
 Tract \_\_\_\_\_ Acres 1466.23 Lease No. C-5058  
 Well (Farm) No. 5 Serial No. GW-1380  
 Elevation (Spirit Level) 1204.25'  
 Quadrangle GILBERT 7 SE S 304 W 318  
 County WYOMING District HUFF CREEK  
 Engineer W. J. [Signature]  
 Engineer's Registration No. 2113  
 File No. \_\_\_\_\_ Drawing No. W-17-62  
 Date 4-30-62 Scale 1" = 300'

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

WELL LOCATION MAP  
 FILE NO. W40-627

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

- Denotes one inch spaces on border line of original tracing.

W40-627

1090627A

WW-4-A  
Revised 6/07

1) Date: February 27, 2014  
2) Operator's Well Number  
130381 Cub Creek Coal A 5  
3) API Well No.: 47 109 - 00627  
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 Rodney G. Hatfield  
Address P O Box 683  
Hanover, WV 24839  
(b) Name Paul & Shirley Cook  
Address P O Box 166  
Hanover, WV 24839  
See Attached  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Ross Eller  
Address 121 Brierhill Drive  
Beckley, WV 25801  
Telephone 304-932-6844

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name M/M GHD LANDS INC.  
Address P O Box 545  
202 Welk Court  
Summersville, WV 26651  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

**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: \_\_\_\_\_  
Notary Public  
Nicholas L. Bumgardner  
Rt. 1, Box 4  
Liberty, WV 25124  
My Commission Expires July \_\_\_\_\_

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

Subscribed and sworn before me this 27 day of FEBRUARY, 2014  
My Commission Expires 6/27/2018

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Office of Oil and Gas  
MAR 06 2014  
WV Department of Environmental Protection

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)

03/28/2014



10900627A

WW2-A

**Additional Surface Owners**

Audrey Riffle ✓  
P O Box 173  
Hanover, WV 24839

Norman & Vertie Fuller ✓  
P O Box 25  
Hanover, WV 24839

James & Jewell Lively ✓  
P O Box 141  
Justice, WV 24851

Gladys & Mildren Vanover heir, et al ✓  
General Delivery  
Hanover, WV 24839

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WV Department of  
Environmental Protection

03/28/2014

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Sent To: Rodney Hatfield ✓  
 PO Box 683  
 Hanover, WV 24839

Street, A or PO Box: 130381 Plugging  
 City, State: 1863031

PS Form 3800, August 2006 See Reverse for Instructions

Rodney Hatfield  
PO Box 683  
Hanover, WV 24839

2. Article Number 7012 3460 0003 3365 0630  
 (Transfer from service label)  
 PS Form 3811, February 2004  
 Domestic Return Receipt

**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  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes  No

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to: Rodney Hatfield  
 PO Box 683  
 Hanover, WV 24839

2. Article Number 7012 3460 0003 3365 0630  
 (Transfer from service label)  
 PS Form 3811, February 2004  
 Domestic Return Receipt

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes  No

RECEIVED  
 Office of Oil and Gas  
 PO Box 683  
 Rodney Hatfield  
 Hanover, WV 24839  
 MAR 09 2014

Print your name and address on the reverse.  
 Attach this card to the back of the mailpiece.  
 Attach this card to the front if space permits.  
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.

10900627P

neopost  
03/04/2014  
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Vicki Roark  
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here

To  
 Paul & Shirley Cook  
 PO Box 166  
 Hanover, WV 24839

Sen  
 Street or P.O.  
 City

PS Form 3800, August 2006 See Reverse for Instructions

Paul & Shirley Cook  
PO Box 166  
Hanover, WV 24839

PS Form 3811, February 2004  
(Transfer from service label)  
7012 3460 0003

**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  Express Mail  Registered  Return Receipt for Merchandise  Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes  No

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 WV Department of Environmental Protection  
 Paul & Shirley Cook  
 PO Box 166  
 Hanover, WV 24839

2. Article Number  
 (Transfer from service label)  
 7012 3460 0003

RECEIVED  
 Office of Oil and Gas  
 Paul & Shirley Cook  
 PO Box 166  
 Hanover, WV 24839  
 MAR 06 2014

130381 Plugline

03/28/2014



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Bridgeport, WV 26330

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Ross Eller  
121 Brierhill Drive  
Beckley, WV 25801



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

M/M GHD Lands INC.  
 PO Box 545  
 202 Welk Court  
 Summersville, WV 26651

130381 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

M/M GHD Land INC.  
PO Box 545  
202 Welk Court  
Summersville, WV 26651

Vicki Roark  
115 Professional Building  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 M/M GHD Lands INC.  
 PO Box 545  
 202 Welk Court  
 Summersville, WV 26651  
 130381 Plugging

2. Article Number  
 7012 3460 0003 3365 0593  
*(Transfer from service label)*

3. Service Type  
 Certified Mail  
 Registered  
 Insured Mail  
 Return Receipt for Merchandise  
 C.O.D.  
 Restricted Delivery? (Extra Fee)  Yes

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

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

A. Signature \_\_\_\_\_  
 Agent  
 Addressee

**COMPLETE THIS SECTION ON DELIVERY**

PS Form 3811, February 2004  
 Domestic Return Receipt  
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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

To: Audrey Riffle  
 PO Box 173  
 Hanover, WV 24839

San: \_\_\_\_\_  
 Street or P.O. Box: \_\_\_\_\_  
 City, State, ZIP+4®: 130381 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

Audrey Riffle  
PO Box 73  
Hanover, WV 24839

Vicki Roark  
115 Professional Building  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to: Audrey Riffle  
 PO Box 173  
 Hanover, WV 24839

2. Article Number (Transfer from service label): 7012 3460 0003 3365 0609

3. Service Type:  Certified Mail  Express Mail  Registered  Insured Mail

4. Restricted Delivery? (Extra Fee)  Yes  No

**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:

PS Form 3811, February 2004  
 Domestic Return Receipt 102595-02-M-1540

03/28/2014

10900627P

03/04/2014  
US POSTAGE  
\$07.61<sup>02</sup>  
ZIP 26330  
041110228892

7012 3460 0003 3365 0586  
7012 3460 0003 3365 0586

Vicki Roark  
115 Professional Building  
Bridgeport, WV 26330

U.S. Postal Service™  
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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
<b>Total</b>		

Norman & Vertie Fuller  
PO Box 25  
Hanover, WV 24839

Sent To  
Street, PO B  
City, Sta  
130381 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

Norman & Vertie Fuller  
PO Box 25  
Hanover, WV 24839

PS Form 3811, February 2004  
Domestic Return  
2. Article Number  
(Transfer from service label)  
7012 3460 1

1. Article Addressed to:  
MAR 05 2014  
Office of Oil and Gas  
Norman & Vertie Fuller  
PO Box 25  
Hanover, WV 24839

2. Attach this card to the back of the mailpiece, or on the front if space permits.

3. Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.

4. Print your name and address on the reverse of this card to you. If we can return the card to you, attach this card to the back of the mailpiece.

3. Service Type

Certified Mail  
 Express Mail  
 Registered  
 Insured Mail  
 Return Receipt for Merchandise  
 C.O.D.

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 \_\_\_\_\_

A. Signature **X**  
 Addressee  
 Agent

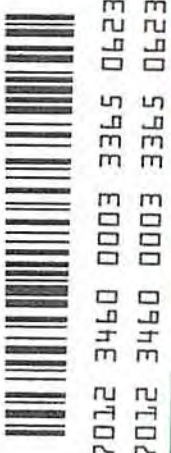
COMPLETE THIS SECTION ON DELIVERY

SENDER: COMPLETE THIS SECTION

03/28/2014

10900627P

neopost®  
03/04/2014  
FIRST-CLASS MAIL  
\$07.61  
US POSTAGE  
ZIP 26330  
041L10228892



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

James & Jewel Lively  
 PO Box 141  
 Justice, WV 24851

130381 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

James & Jewel Lively  
PO Box 141  
Justice, WV 24851

Vicki Roark  
115 Professional Building  
Bridgeport, WV 26330

**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  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes  No

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 James & Jewel Lively  
 PO Box 141  
 Justice, WV 24851

2. Article Number  
 7012 3460 0003 3365 0623

PS Form 3811, February 2004  
 Domestic Return Receipt  
 (Transfer from service label)

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 Office of Oil and Gas  
 James & Jewel Lively  
 PO Box 141  
 Justice, WV 24851  
 MAR 06 2014

03/28/2014



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US POSTAGE  
FIRST-CLASS MAIL  
\$07.61<sup>9</sup>  
ZIP 26330  
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7012 3460 0003 3365 0616  
7012 3460 0003 3365 0616

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

Gladys & Mildren Vanover heirs, et al  
General Delivery  
Hanover, WV 24839 ✓  
130381 Plugging  
PS Form 3800, August 2006 See Reverse for Instructions

Gladys & Mildren Vanover heirs, et al  
General Delivery  
Hanover, WV 24839

Vicki Roark  
115 Professional Building  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to: Gladys & Mildren Vanover heirs, et al  
 2. Article Number: 7012 3460 0003 3365 0616  
 3. Service Type:  Certified Mail  Express Mail  Registered  Insured Mail  
 4. Restricted Delivery? (Extra Fee)  Yes  No

**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:

RECEIVED  
Office of Oil and Gas  
Hanover, WV 24839  
Gladys & Mildren Vanover heirs, et al  
130381 Plugging  
03/26/2014  
WV Department of Environmental Protection

10900627A

WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
130381 Cub Creek Coal A 5  
3) API Well No.: 47 109 - 00627

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: Right Fork of Muzzle Creek Quadrangle: Gilbert 7.5  
Elevation: 1207 County: Wyoming District: Huff Creek

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.? 30 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 [Signature]  
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

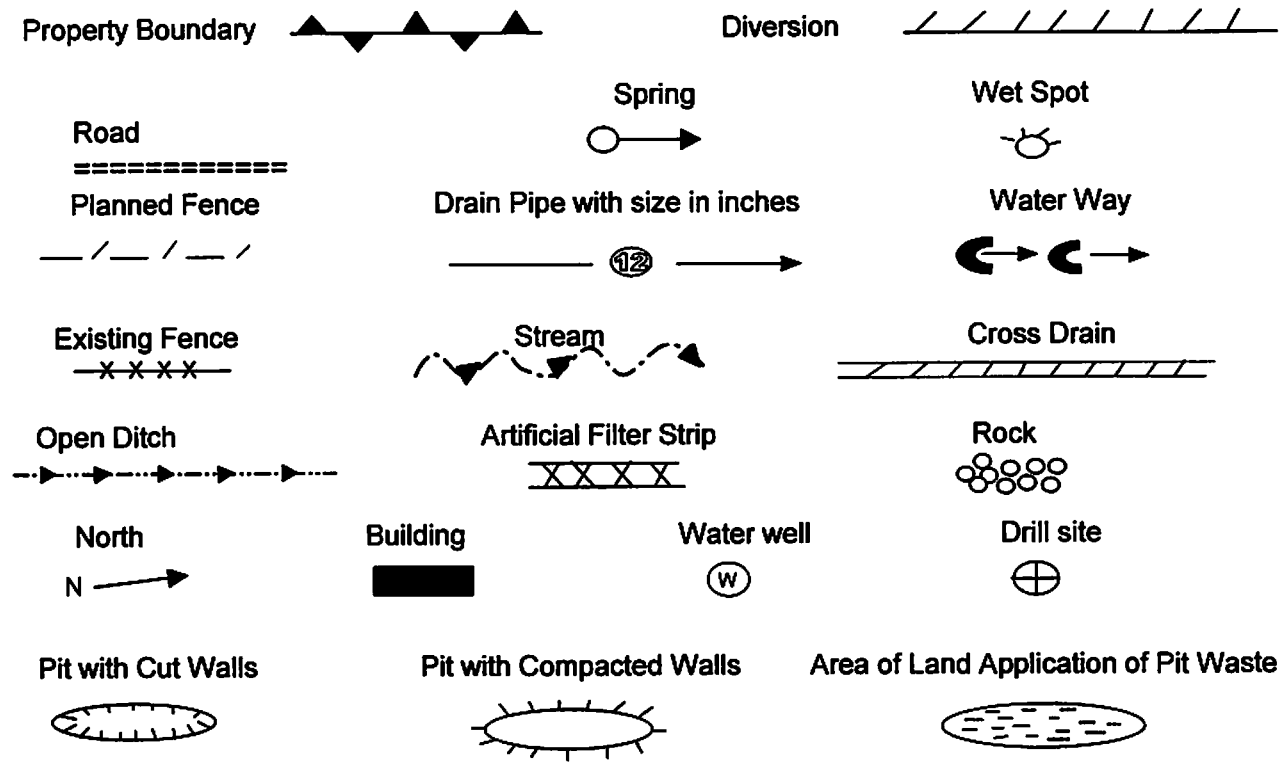
Subscribed and sworn before me this 27 day of FEBRUARY, 2014

My Commission Expires 6/27/2018

RECEIVED  
Office of Oil and Gas  
MAR 06 2014  
OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Nicholas L. Bumgardner  
Rt. 1, Box 4  
Liberty, WV 25110  
My Commission Expires July 27, 2018  
03/28/2014

**OPERATOR'S WELL NO.:**  
**130381 Cub Creek Coal A 5**

**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: \_\_\_\_\_  
Field Reviewed?        Yes        No

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

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WV Department of  
Environmental Protection  
03/28/2014

10900627P

Topo Quad: Gilbert 7.5'

Scale: 1" = 2000'

County: Wyoming

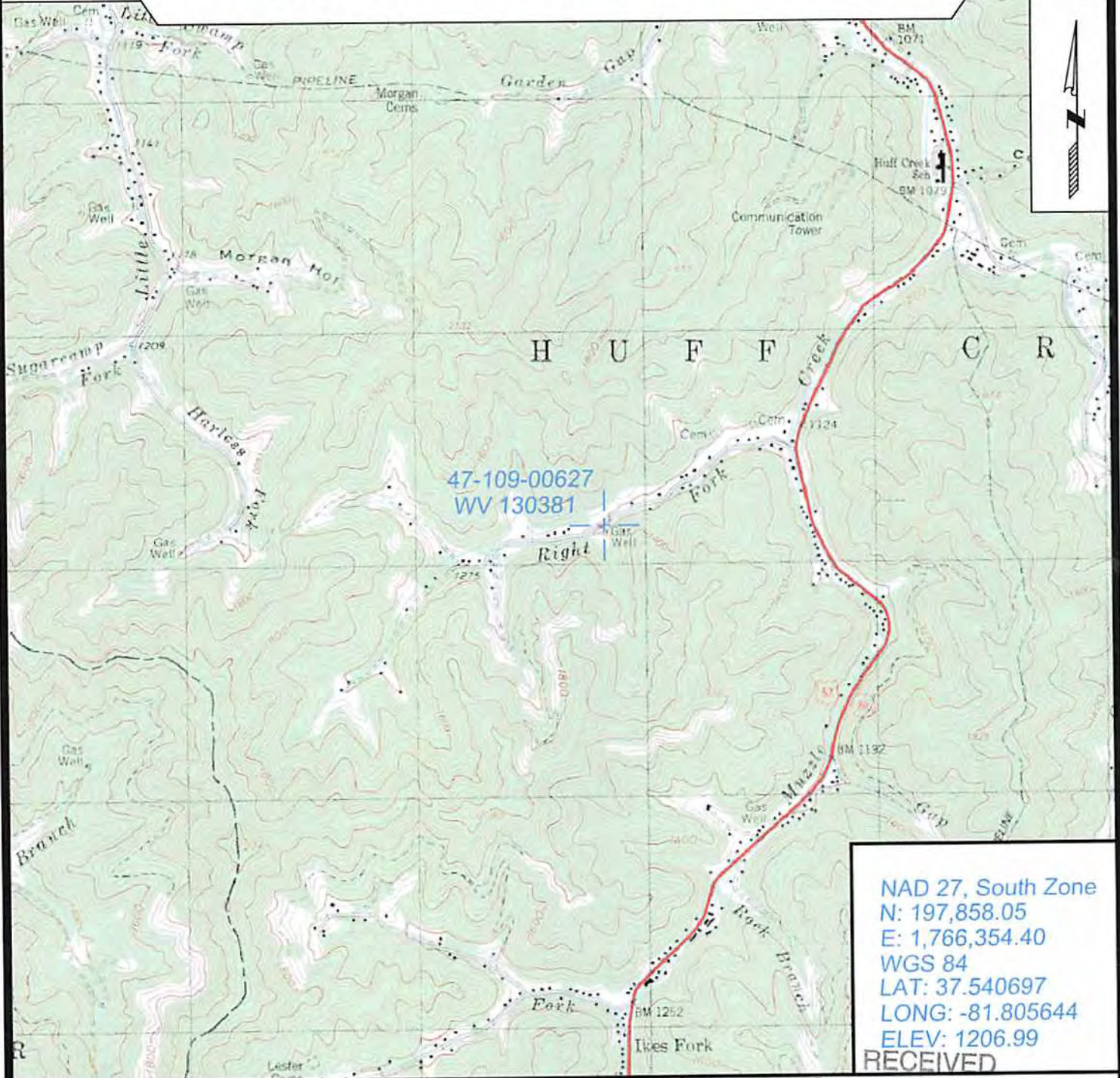
Date: February 7, 2014

District: Huff Creek

Project No: 22-22-00-08

47-109-00627 WV 130381 (Cub Creek Coal A 5)

Topo



NAD 27, South Zone  
 N: 197,858.05  
 E: 1,766,354.40  
 WGS 84  
 LAT: 37.540697  
 LONG: -81.805644  
 ELEV: 1206.99  
 RECEIVED



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 Oil and Gas  
**EQT Production Company**  
 MAR 06 2014  
 P.O. Box 280  
 Bridgeport, WV 26330  
 WV Department of Environment

03/28/2014

WW-7  
8-30-06



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

API: 47-109-00627 WELL NO.: WV 130381 (Cub Creek Coal A 5)

FARM NAME: Cub Creek Coal Co.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wyoming DISTRICT: Huff Creek

QUADRANGLE: Gilbert 7.5'

SURFACE OWNER: Rodney G. Hatfield

ROYALTY OWNER: Richwood Sewell Coal Co., et al.

UTM GPS NORTHING: 4155161

UTM GPS EASTING: 428827 GPS ELEVATION: 368 m (1207 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  : Post Processed Differential   
 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.

Signature *[Handwritten Signature]*  
 Date 2/10/14

Title PS # 2180

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Office of Oil and Gas  
MAR 06 2014  
WV Department of  
Environmental Protection  
03/28/2014

10900627P

Topo Quad: Gilbert 7.5'

Scale: 1" = 2000'

County: Wyoming

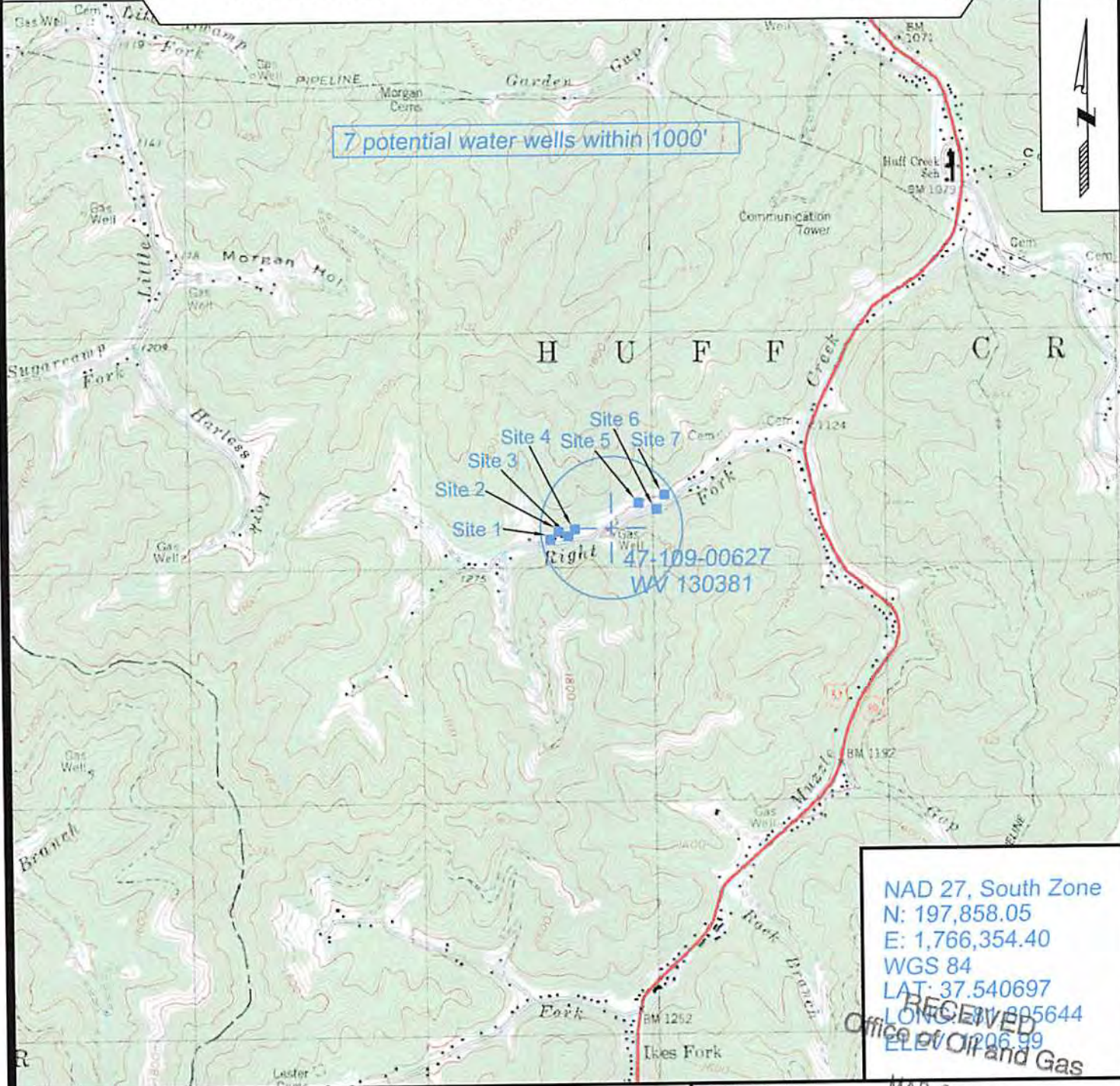
Date: February 7, 2014

District: Huff Creek

Project No: 22-22-00-08

Water

47-109-00627 WV 130381 (Cub Creek Coal A 5)



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 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**  
 Environmental Department  
 P.O. Box 280  
 Bridgeport, WV 26330

MAR 06 2014

03/28/2014



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Cub Creek Coal A 5 WV 130381 (47-109-00627)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

\*Please note that the following information is subject to change upon field inspection.

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 280' +/- Owner: Paul & Shirley Cook

Address: PO Box 166 Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

Site: 2 Spacing: 744' +/- Owner: Audrey Riffe

Address: PO Box 173 Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

Site: 3 Spacing: 616' +/- Owner: Norman & Vertie Fuller

Address: PO Box 25 Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

Site: 4 Spacing: 512' +/- Owner: James & Jewell Lively

Address: PO Box 141 Justice, WV 24851

Phone No. \_\_\_\_\_

Comments:

Site: 5 Spacing: 529' +/- Owner: Rodney Hatfield

Address: PO Box 683 Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

**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

RECEIVED  
Office of Oil and Gas  
P.O. Box 108 • 1415 Williams Road  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948  
MAR 06 2014

Site: 6 Spacing: 694' +/- Owner: Gladys & Mildren Vanover heirs, et al.

Address: General Delivery Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

Site: 7 Spacing: 890' +/- Owner: Rodney Hatfield

Address: PO Box 683 Hanover, WV 24839

Phone No. \_\_\_\_\_

Comments:

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