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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

January 24, 2014

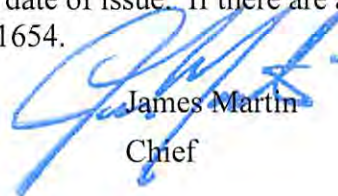
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3901839, issued to BLUE CREEK GAS 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: A-2  
Farm Name: BLUE CREEK GAS CO.  
**API Well Number: 47-3901839**  
**Permit Type: Plugging**  
Date Issued: 01/24/2014

**Promoting a healthy environment.**

1) Date 12/9/2013  
2) Operator's Well No. 2 A  
3) API Well No. 47-39-1839

STATE OF WEST VIRGINIA  
DEPARTMENT 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      or Underground storage     ) Deep      / Shallow     

5) Location: Elevation 1103' Watershed       
District Elk <sup>04</sup> County Kanawha Quadrangle       
3A

6) Well Operator Blue Creek Gas 7) Designated Agent Steve Rubin  
Address 1700 Pennsulvana Ave. Address 1700 Pennsulvana Ave.  
Charleston, WV. Charleston, WV.

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Terry Urban Name Duckworth Well Service  
Address P.O.Box 1207 Address P.O.Box 6871  
Charleston, WV. 25045 Charleston, WV 25362

10) Work Order: The work order for the manner of plugging this well is as follows:

Cement 1900' - 1800'  
Cement 1405' - 1305' 7" seat.  
Cement 1000' - 900' 4 1/2" cut.  
Cement 460' - 360' 8" seat.  
Cement 100' - 0"

Will Remove All  
Free pipe  
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Office of Oil and Gas  
JAN 17 2014  
WV Department of  
Environmental Protection

Gel between all plugs.  
Erect monument with API numbers.



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

Work order approved by inspector Terry Urban Date 1-10-14

1) Date: 12-9-2013  
2) Operator's Well Number 2-A  
3) API Well No.: 47 - 39 - 1839-P

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

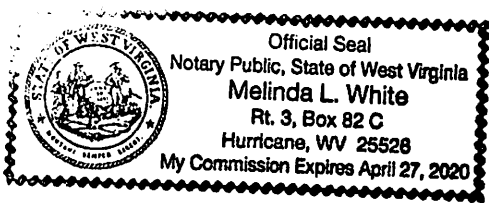
4) Surface Owner(s) to be served.	5) (a) Coal Operator
(a) Name <u>Blue Eagle Land</u>	Name _____
Address <u>13 Kan. Blvd. W.</u>	Address _____
(b) Name <u>Suite 200</u>	(b) Coal Owner(s) with Declaration
Address <u>Charleston, WV 25302</u>	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
5) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name _____
Telephone _____	Address _____
Address <u>Clenden, WV 25045</u>	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 reverse 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 Department 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 Blue Creek Gas  
By: [Signature]  
Its: President  
Address 1700 Pennsylvania Ave  
Charleston, WV  
Telephone 304-342-0141

Subscribed and sworn before me this 9th day of January 2014  
Melinda L. White Notary Public  
My Commission Expires April 27, 2020

**Oil and Gas Privacy Notice**  
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 [depprivacyoffice@wv.gov](mailto:depprivacyoffice@wv.gov).

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WV Department of Environmental Protection

Form CG-16



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

Quadrangle Clendenin-S.W.

Permit No. KAN-1639

WELL RECORD

Oil or Gas Well Gas

Company BLUE CREEK GAS COMPANY  
 Address P. O. Box 6357, Charleston, W. Va.  
 Farm Blue Creek Coal & Land Co. Acres 2389  
 Location (waters) \_\_\_\_\_  
 Well No. 1-A Elev. 1103  
 District Rik County Kanawha  
 The surface of tract is owned in fee by Union Carbide  
Chemical Co. Address So. Charleston  
W. Va.  
 Mineral rights are owned by None  
 Address \_\_\_\_\_  
 Drilling commenced March 15, 1962  
 Drilling completed April 12, 1962  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
 Volume 100,000 Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. hrs.  
 Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
 WELL ACIDIZED \_\_\_\_\_  
 WELL FRACTURED April 16, 1962 by Dowell

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packerc
12			
10	29'	29'	Size of
8 1/2	412'	412'	
6 1/2 7"	1,355	- -	Depth set
5 3/16 4 1/2"	1,910	1,910	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

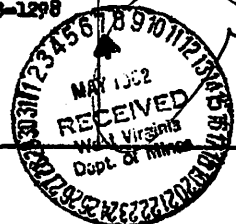
CASING CEMENTED 4 1/2" SIZE 1910 No. PL-13-62 Date 30 sacks cement by Dowell

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

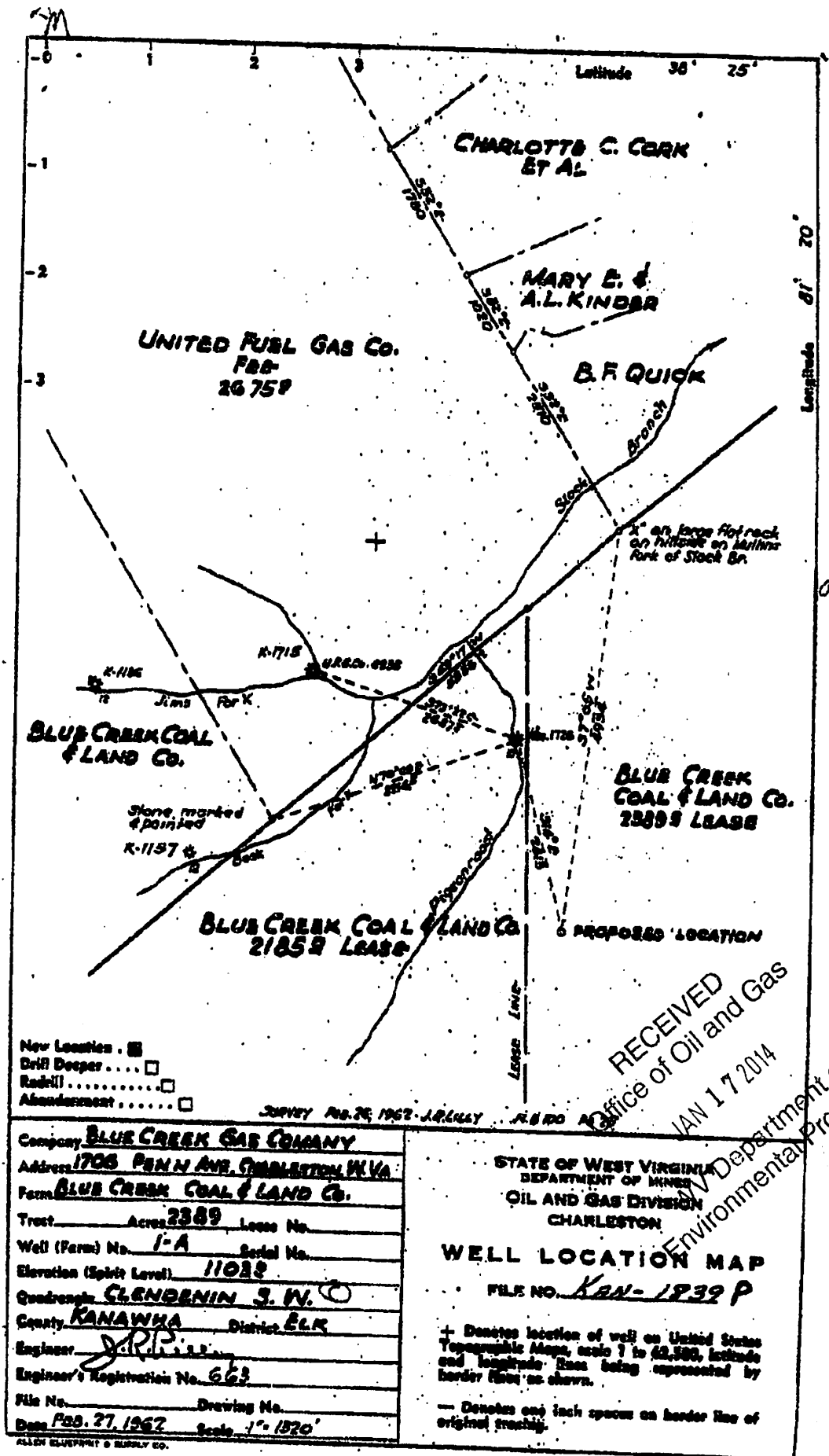
RESULT AFTER TREATMENT 1,800 MCF  
 ROCK PRESSURE AFTER TREATMENT 165% - 48 hrs.  
 Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface	Yellow	Soft	0	10			
Sand	Gray	Soft	10	58			
Coal	Black	Soft	58	60	Water		
Sand	Gray	Soft	60	80			
Slate & Shells	Black	Med	80	140			
Sand	Gray	Med	140	165			
Coal	Black	Soft	165	168			
Slate	Blue	Soft	168	186			
Sand	Gray	Med	186	200			
Slate	Dark	Soft	200	225	Water		
Sand	Gray	Soft	225	300			
Lime	Dark	Med	300	330			
Sand	Gray	Med	330	344			
Coal	Black	Soft	344	347			
Slate & Shells	Dark	Med	347	559			
Sand	Gray	Med	555	630	Water		
Slate & Shells	Dark	Med	630	653			
Sand	Gray	Med	653	695			
Slate & Shells	Dark	Med	695	745			
Sand	Gray	Med	745	917			
Slate & Shells	Dark	Med	917	940	Gas	950	
Salt Sand	Gray	Hard	940	1143	Water	975	Hole Full
Slate & Shells	Dark	Med	1143	1218	Water	1028-1050	
Sand	Gray	Hard	1218	1344	Water	1293-1298	
Slate	Dark	Soft	1344	1348			
Lime	Gray	Hard	1348	1362			
Sand	Gray	Hard	1362	1404			
Rock	Red	Med	1404	1443			
Slate & Shells	Dark	Soft	1443	1465			

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 All  
 Sgn' of White  
 White  
 Comm'd  
 Diller



(over)



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

SURVEY No. 26, 1962 J.R. KELLY A.B. RO

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 JAN 17 2014  
 WV Department of Environmental Protection

Company <b>BLUE CREEK GAS COMPANY</b>	
Address <b>1706 PENN AVE, CHARLESTON, W. VA.</b>	
Farm <b>BLUE CREEK COAL &amp; LAND CO.</b>	
Treat	Acres <b>2389</b> Lease No.
Well (Farm) No. <b>1-A</b>	Serial No.
Elevation (Spot Level) <b>11028</b>	
Quadrange <b>CLANDENIN S. IV.</b>	
County <b>KANAWHA</b>	District <b>ELK</b>
Engineer <b>J.R. KELLY</b>	
Engineer's Registration No. <b>663</b>	
File No.	Drawing No.
Date <b>Feb. 27, 1962</b>	Scale <b>1" = 1570'</b>

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. **KAN-1939 P**

+ 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 any inch spaces on border line of original tracing.

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Blue Creek Gas OP Code \_\_\_\_\_

Watershed \_\_\_\_\_ Quadrangle \_\_\_\_\_

Elevation 1103' County Kanawha District Elk

Description of anticipated Pit Waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? \_\_\_\_\_

*NO PIT*

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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 Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term 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 \_\_\_\_\_

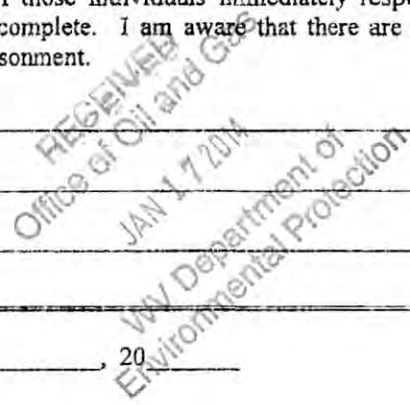
Company Official (Typed Name) Steve Rubin

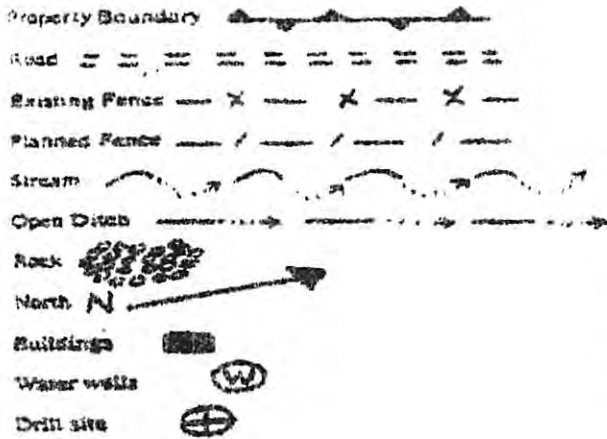
Company Official Title President

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

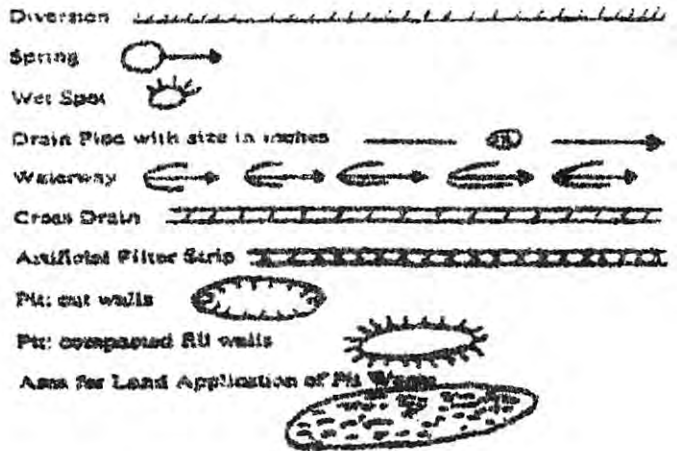
Notary Public

My commission expires \_\_\_\_\_





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1/4 Prevegetation pH \_\_\_\_\_

Line 3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
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Contractors Mix

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

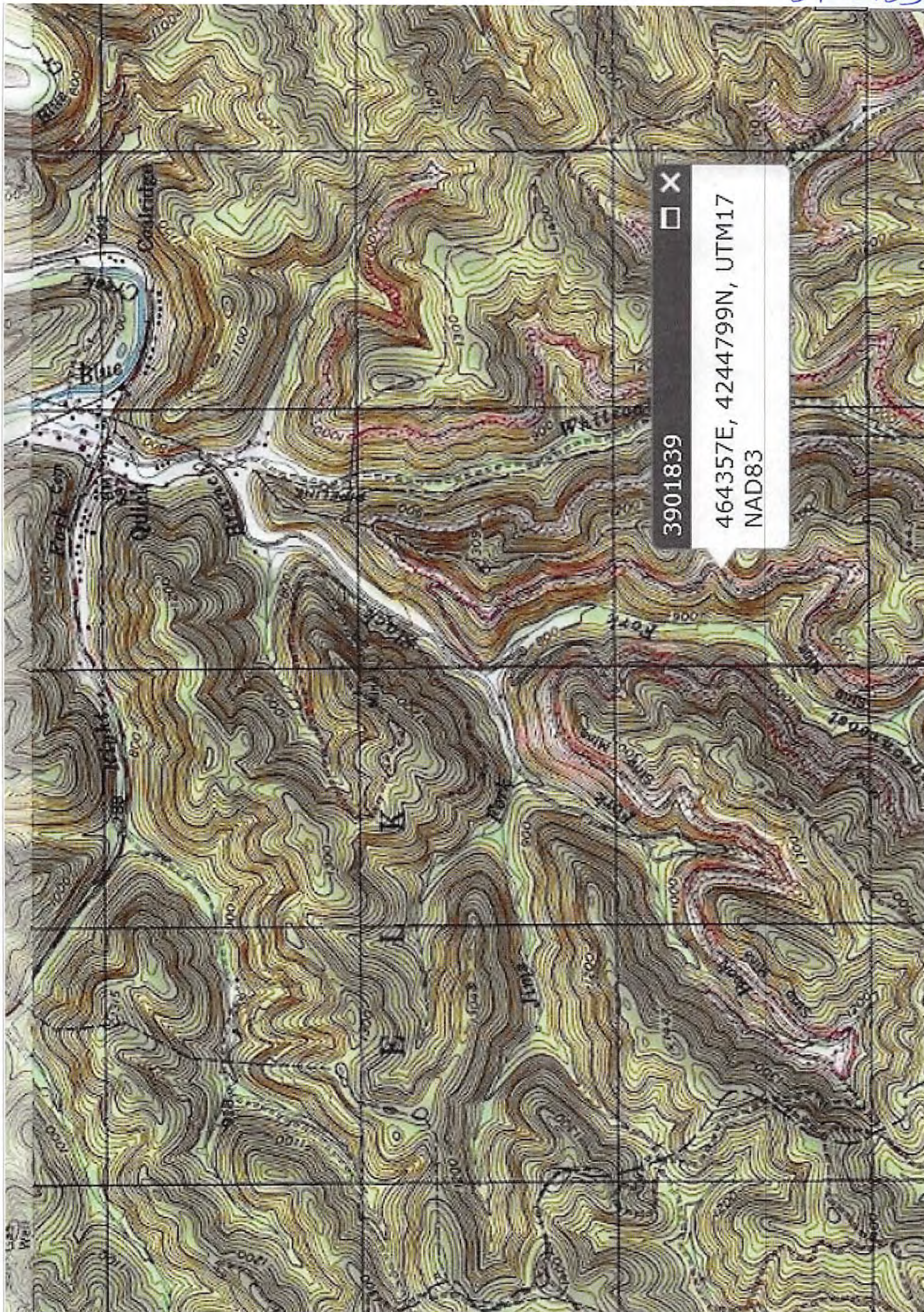
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

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

Title: Inspector Carl Lucas Date: 1-10-14

Field Reviewed?  Yes  No



3901839

464357E, 4244799N, UTM17

NAD83





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

API: 47-3901839 WELL NO.: 2-A

FARM NAME: Blue Creek Coal Land Co.

RESPONSIBLE PARTY NAME: Steve Rubin

COUNTY: Kanawha DISTRICT: EK

QUADRANGLE: \_\_\_\_\_

SURFACE OWNER: Union Carbide Chemical Co.

ROYALTY OWNER: Union Carbide Chemical Co.

UTM GPS NORTHING: ~~778~~ 0464357

UTM GPS EASTING: 42 44 799 GPS ELEVATION: 1177

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.

Steve Hackworth Contractor 1-13-14  
Signature Title Date

