



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, April 28, 2017
WELL WORK PERMIT
Vertical / Plugging

PANTHER CREEK MINING, LLC (A)
3228 SUMMIT SQUARE PLACE
SUITE 180
LEXINGTON, KY 40509

Re: Permit approval for 20-S-115
47-039-01928-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 20-S-115
Farm Name: BLUE EAGLE LAND, LLC
U.S. WELL NUMBER: 47-039-01928-00-00
Vertical / Plugging
Date Issued: 4/28/2017

Promoting a healthy environment.

04/28/2017

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.

WW-4B
Rev. 2/01

- 1) Date Feb. 20, 2017
- 2) Operator's Well No. 20-S-115
- 3) API Well No. 47-039-01928

CK29702
10000

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 X or Underground storage _____) Deep _____ / Shallow _____

5) Location: Elevation 949.2' Watershed: Rattlesnake Hollow
District Malden County Kananwha Quadrangle Quick

6) Well Operator <u>Panther Creek Mining, LLC</u>	7) Designated Agent <u>Gary E. Acord</u>
Address <u>3228 Summit Square Place, Suite 180</u>	Address <u>P.O. Box 99</u>
<u>Lexington, KY 40509</u>	<u>Dawes, WV 25054</u>

8) Oil and Gas Inspector to be notified	9) Plugging Contractor
Name <u>Terry Urban</u>	Name <u>CJ's Well Service</u>
Address <u>P.O. Box 1207</u>	Address <u>1013 Cydney Circle</u>
<u>Clendenin, WV 25045</u>	<u>Oakwood, VA 24631</u>

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

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

RECEIVED
Office of Oil and Gas

Work order approved by inspector 

APR 03 2017
Date 3-15-17
WV Department of
Environmental Protection

PLUGGING PROGNOSIS

Well #20-S-115
API# 47-039-01928
Malden District, Kanawha

Current Status

Elevation: 949.02'
Total Depth: 1695'
Active: Yes
Plugged: No

Procedure for Plugging

- 1) Notify state inspector, Terry Urban, @ 304-549-5915, before starting.
- 2) The purpose of this plugging is to allow for cover up of the well within a future refuse area.
- 3) Cleanout hole to 1,695' (Original T.D.)
- 4) Locate free point, cut casing, and pull from hole. *≈ 1300'*
- 5) Pump Class "A" Cement from 1,695' – 1,425' (T.D. to 100' above Gas Producing Formation.)
- 6) Pump Class "A" Cement ~~or "Gel"~~ from 1,425' – surface.
- 7) Depending on site conditions, plugging procedures may be modified after approval of the inspector.
- 8) All changes to the plugging procedures will be noted in the plugging affidavit.
- 9) Erect permanent monument with API number. *PER WV STATE CODE REQUIREMENTS. SEE ATTACHMENT*
- 10) Reclaim the site and access road.

Terry Urban
3-15-17

RECEIVED
Office of Oil and Gas

APR 03 2017

WV Department of
Environmental Protection

PERMANENT MARKER

should contain the name, address and telephone number of the person filing the comment, the well operator's name and well number, and the approximate location of the proposed well site including district and county as indicated in the permit application. Comments may be accompanied by other pertinent documents in support of the comment. Other than as prescribed in this rule, no particular form for the comment is prescribed.

5.5. Identification Markings.

5.5.a. Every well shall have attached or stamped, in a permanent manner, the API identification number which consists of the state (47), county (001 through 109), and permit number. Such number shall be no less than one-half (1/2) inch in height and detectable by any interested person approaching the well. Any additional information the well operator may desire to display may be incorporated in the permanent identification plat or stamp in such a manner that it will not confuse or distort the permanent API identification number.

5.5.b. Except as provided below, upon the completion of the plugging and filling of any abandoned well, a permanent monument or marker consisting of a length of pipe (minimum diameter size six (6) inches) filled with concrete (or the equivalent thereof if approved by the Chief) shall be erected over the well; the marker shall extend no less than thirty (30) inches above the surface and not less than ten (10) feet below the surface and into the well, and shall be sealed with concrete for the purpose of making the marker permanent. The API well identification number which consists of the state (47), county (001 through 109), and permit number shall be attached or stamped in a permanent manner to said monument; and such numbering shall be no less than one half (1/2) inch in height and detectable by any interested person approaching the marker. The erection of the marker shall in no way interfere with the bleeder pipe from the well where such pipe is required, or the vent or other device installed pursuant to W. Va. Code § 22-6-24. Such manner shall be accurately described on Form WR-38, "Affidavit of Plugging and Filling Well" (see subsection 13.10 below) as to time and manner of plugging and filling the well, and shall be approved by the Chief as a satisfactory landmark that may be used as such in the location of adjacent wells. Two (2) permanent reference points with courses and distances from the abandoned well shall be designated and prescribed on the plat required by subdivision 5.2.d above in the form prescribed by section 9 below, accompanying Form WW-4, "Notice of Intention to Plug and Abandon a Well," if any change in the plat is necessary, accompanying Form IV-38, "Affidavit of Plugging and Filling Well" (see subsection 13.10 below).

5.6. Parties Responsible. All contractors and drillers, including all service companies carrying on business or doing work in oil and gas fields in West Virginia, as well as lease holders and operators generally, shall take notice of and are hereby directed to observe and apply the provisions of W. Va. Code § 22-6 and this rule; and all contractors, drillers, service companies and operators shall be held responsible for violations thereof.

5.7. Evidence of Performance.

5.7.a. After the completion of the work authorized to be done by any permit required by W. Va. Code § 22-6-6, the permittee shall comply with filing requirements of W. Va. Code § 22-6-22 and section 12 of this rule.

5.7.b. In addition to the requirements of subdivision 5.7.a, following completion of plugging a well, the permittee shall also comply with the affidavit requirements of W. Va. Code § 22-6-23 and subsection 13.10 below.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Quadrangle CLENDENIN

WELL RECORD

Permit No. KAN-1928

Oil or Gas Well Gas
(KIND)

Company Spartan Gas Company
Address P.O. Box 766 - Charleston, W. Va.
Farm Union Carbide Corp. Acres 3,080
Location (waters) Rattlesnake Hollow
Well No. 20 - S-115 Elev. 911.47
District Malden County Kanawha
The surface of tract is owned in fee by Union Carbide Corp. Address So. Chas., W. Va.
Mineral rights are owned by Same Address _____
Drilling commenced December 26, 1962
Drilling completed January 28, 1963
Date Shot _____ From _____ To _____
With _____
Open Flow 5 /10ths Water in 2 Inch
_____ /10ths Merc. in _____ Inch
Volume 94 M. Cu. Ft.
Rock Pressure 315 lbs. 19 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	36' 4"	36' 4"	Size of
8 3/4	101'	101'	
6 3/4	1384'	None	Depth set
5 3/16			
4 1/2"	1683'	1683'	Perf. top <u>1525'</u>
2			Perf. bottom <u>1532'</u>
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 4 1/2" SIZE _____ No. Ft. _____ Date _____
29 Sacks - Well Service, Inc.

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED Through perforations at 1525-1532 with 550 Bbls. Water, 25,000# 20-40 Sand - 250 Gal. Mud Acid

RESULT AFTER TREATMENT 750 MCF
ROCK PRESSURE AFTER TREATMENT Not Taken

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	10			
Sand			10	65			
Slate & Shells			65	85			
Sand			85	100			
Slate & Shells			100	120			
Sand			120	165			
Slate			165	304			
Sand Broken			304	372			
Slate			372	415			
Sand			415	605			
Slate & Shells			605	630			
Sand			630	1057			
Slate			1057	1065			
Sand Broken			1065	1080			
Slate			1080	1088			
Red Rock			1088	1092			
Slate & Shells			1092	1110			
Red Rock			1110	1129			
Slate & Shells			1129	1150			
Sand			1150	1168			
Slate			1168	1180			
Red Rock			1180	1186			
Slate			1186	1226			
Red Rock			1226	1242			
Maxon Sand			1242	1299			
Slate			1299	1300			
Little Lime			1300	1333			
Slate			1333	1345			

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728-742 3 20
777-786
Department of Environmental Protection
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West Virginia
Dept. of Mines
FEB 1963

04/28/2017

Formation	Color	Hard or Soft	Top <i>b</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1345	1357			
Slate			1357	1360			
Lime			1360	1373			
Slate			1373	1375			
Big Lime			1375	1520			
Gray Injun Sand			1520	1542			
Red Injun Sand			1542	1564			
Slate & Shells			1564	1623			
Weir Sand			1623	1634			
Slate & Shells			1634	1695			
Total Depth			1695				
					Gas:		
							146 M - Blow down to 94 M.
	1/30/63						- Ran and cemented 4 1/2" casing at 1675. Circulated 7 Bags Aquagel ahead of cement. Used 29 sacks H. Early. Float Collar at 1641.

Date February 25 04/28/2017 19 63

APPROVED SPARTAN GAS COMPANY Owner
 By William T. Ziebold (Title)

GEOLOGICAL INFORMATION SHEET

APPLICATION CAMPELLE'S CREEK

HOLE NUMBER WV93-013 (#5) UTM ZONE Ø QUADRANGLE QUICK
 LATITUDE Ø Ø Ø " UTME COORDINATE Ø
 LONGITUDE Ø Ø Ø " UTMN COORDINATE Ø
 DRILLER HIGNITE, J. D. DATE 4 / 26 / 93

 LAST FIRST MI

TYPE-CORE CHIP _____ HIGHWALL _____ AUGER _____ G-LOG _____ OTHER _____
 UNIT OF MEASURE - FEET & INCHES _____ FEET & TENTHS METRIC _____

LOG SHEET

PAGE 1 OF 4 PAGES

ROCK CODE	ELEVATION	UNIT THICKNESS	CUMULATIVE THICKNESS	N.P.	P.A.	SAMPLE NO.	COMMENTS
	1148.56						
001	1125.56	23.00	23.00				CASING OR SURFACE MATERIAL
001	1105.56	20.00	43.00				ROTARY
544	1083.86	21.70	64.70				GRAY MASSIVE SANDSTONE
3	1083.16	0.70	65.40				BONEY COAL
133	1079.26	3.90	69.30				LT GRAY SHALE W/COAL STREAKS
748	1059.26	20.00	89.30				GRAY SANDSTONE W/COAL BANDS
540	1045.56	13.70	103.00				GRAY SANDSTONE
748	1037.86	7.70	110.70				GRAY SANDSTONE W/COAL BANDS
020	1037.61	0.25	110.95				COAL
748	1037.41	0.20	111.15				GRAY SANDSTONE W/COAL BANDS
023	1037.11	0.30	111.45				BONEY COAL
133	1036.06	1.05	112.50				LT GRAY SHALE W/COAL STREAKS
137	1035.06	1.00	113.50				FIRECLAY
334	1032.56	2.50	116.00				LT GRAY MASSIVE SANDY SHALE
748	998.56	34.00	150.00				GRAY SANDSTONE W/COAL BANDS
540	988.56	10.00	160.00				GRAY SANDSTONE
334	977.66	10.90	170.90				LT GRAY MASSIVE SANDY SHALE
124	970.66	7.00	177.90				DARK GRAY SHALE
020	970.36	0.30	178.20				COAL
134	969.16	1.20	179.40				LIGHT GRAY SHALE
334	966.66	2.50	181.90				LT GRAY MASSIVE SANDY SHALE
540	965.56	1.10	183.00				GRAY SANDSTONE
334	961.16	4.40	187.40				LT GRAY MASSIVE SANDY SHALE
134	948.86	12.30	199.70				LIGHT GRAY SHALE
540	945.56	3.30	203.00				GRAY SANDSTONE
334	944.36	1.20	204.20				LT GRAY MASSIVE SANDY SHALE
540	940.36	4.00	208.20				GRAY SANDSTONE
134	936.46	3.90	212.10				LIGHT GRAY SHALE
24	935.96	0.50	212.60				DARK GRAY SHALE
28	935.06	0.90	213.50				COAL WITH SHALE STREAKS
133	934.66	0.40	213.90				LT GRAY SHALE W/COAL STREAKS
020	934.41	0.25	214.15				COAL
134	934.36	0.05	214.20				LIGHT GRAY SHALE
020	933.31	1.05	215.25				COAL

Stackton

GEOLOGICAL INFORMATION SHEET

APPLIC, ON CAMPBELLS CREEK

HOLE NUMBER WV93-013 (#5) UTM ZONE Ø QUADRANGLE QUICK
 LATITUDE Ø Ø ' Ø " UTME COORDINATE Ø
 LONGITUDE Ø Ø ' Ø " UTMN COORDINATE Ø
 DRILLER HIGNITE, J. D. DATE 4 / 26 / 93

 LAST FIRST MI

TYPE-CORE X CHIP ___ HIGHWALL ___ AUGER ___ G-LOG ___ OTHER ___

UNIT OF MEASURE - FEET & INCHES ___ FEET & TENTHS X METRIC ___

LOG SHEET

PAGE 2 OF 4 PAGES

ROCK CODE	ELEVATION	UNIT THICKNESS	CUMULATIVE THICKNESS	N.P.	P.A.	SAMPLE NO.	COMMENTS
114	933.06	0.25	215.50				BLACK SHALE
020	932.41	0.65	216.15				COAL
124	931.46	0.95	217.10				DARK GRAY SHALE
020	929.91	1.55	218.65				COAL
3	929.51	0.40	219.05				BONEY COAL
123	929.06	0.45	219.50				DARK GRAY SHALE W/COAL STREAKS
020	927.71	1.35	220.85				COAL
134	925.56	2.15	223.00				LIGHT GRAY SHALE
134	923.86	1.70	224.70				SOFT GRAY SHALE
334	916.06	7.80	232.50				LT GRAY MASSIVE SANDY SHALE
544	885.56	30.50	263.00				GRAY MASSIVE SANDSTONE
748	881.21	4.35	267.35				GRAY SANDSTONE W/COAL BANLS
020	880.86	0.35	267.70				COAL
133	878.86	2.00	269.70				LT GRAY SHALE W/COAL STREAKS
134	877.36	1.50	271.20				SOFT GRAY SHALE
134	872.66	4.70	275.90				LIGHT GRAY SHALE
334	869.16	3.50	279.40				LT GRAY MASSIVE SANDY SHALE
020	869.01	0.15	279.55				COAL W/SANDSTONE STRS
020	868.26	0.75	280.30				COAL
134	867.86	0.40	280.70				LIGHT GRAY SHALE
540	854.36	13.50	294.20				GRAY SANDSTONE
543	850.46	3.90	298.10				GRAY SANDSTONE W/SHALE STREAKS
748	845.56	4.90	303.00				GRAY SANDSTONE W/COAL BANLS
540	831.56	14.00	317.00				GRAY SANDSTONE
748	828.96	2.60	319.60				GRAY SANDSTONE W/COAL BANLS
134	823.46	5.50	325.10				LIGHT GRAY SHALE
020	822.41	1.05	326.15				COAL
114	821.61	0.80	326.95				BLACK SHALE
020	821.16	0.45	327.40				COAL
134	817.86	3.30	330.70				SOFT GRAY SHALE
134	817.06	0.80	331.50				GRAY CLAY
134	813.76	3.30	334.80				LIGHT GRAY SHALE
020	813.36	0.40	335.20				COAL
134	811.96	1.40	336.60				LIGHT GRAY SHALE

GEOLOGICAL INFORMATION SHEET

APPLIC/ ON CAMPBELLS CREEK

HOLE NUMBER NV93-013 (#5) UTM ZONE Ø QUADRANGLE QUICK
 LATITUDE Ø Ø ' Ø " UTME COORDINATE Ø
 LONGITUDE Ø Ø ' Ø " UTMN COORDINATE Ø
 DRILLER HIGNITE, J. D. DATE 4 / 26 / 93

 LAST FIRST MI

TYPE-CORE X CHIP HIGHWALL AUGER G-LOG OTHER
 UNIT OF MEASURE - FEET & INCHES FEET & TENTHS X METRIC

LOG SHEET

PAGE 3 OF 4 PAGES

ROCK CODE	ELEVATION	UNIT THICKNESS	CUMULATIVE THICKNESS	N.P.	P.A.	SAMPLE NO.	COMMENTS
540	805.56	5.40	342.00				GRAY SANDSTONE
334	805.56	1.00	343.00				LT GRAY MASSIVE SANDY SHALE
134	799.26	6.30	349.30				LIGHT GRAY SHALE
134	796.66	2.60	351.90				GRAY SHALE W/FOSSILS
Ø	796.06	0.60	352.50				COAL W/PYRITE STRS
133	795.26	0.80	353.30				LT GRAY SHALE W/COAL STREAKS
134	794.06	1.20	354.50				LIGHT GRAY SHALE
134	791.76	2.30	356.80				SOFT GRAY SHALE
134	787.76	4.00	360.80				LIGHT GRAY SHALE
334	783.56	4.20	365.00				LT GRAY MASSIVE SANDY SHALE
540	769.36	14.20	379.20				GRAY SANDSTONE
114	767.66	1.70	380.90				BLACK SHALE
028	767.51	0.15	381.05				COAL WITH SHALE STREAKS
020	766.66	0.85	381.90				COAL W/PYRITE STRS
134	765.56	1.10	383.00				LIGHT GRAY SHALE
134	760.76	4.80	387.80				SOFT GRAY SHALE
334	757.26	3.50	391.30				LT GRAY MASSIVE SANDY SHALE
134	753.56	3.70	395.00				LIGHT GRAY SHALE
748	739.26	14.30	409.30				GRAY SANDSTONE W/COAL BANDS
023	738.96	0.30	409.60				BONEY COAL
124	737.56	1.40	411.00				DARK GRAY SHALE
134	736.76	0.80	411.80				SOFT GRAY SHALE
134	736.36	0.40	412.20				LIGHT GRAY SHALE
334	733.76	2.60	414.80				LT GRAY MASSIVE SANDY SHALE
124	731.26	2.50	417.30				DARK GRAY SHALE
113	730.76	0.50	417.80				BLACK SHALE WITH COAL STREAKS
023	730.36	0.40	418.20				BONEY COAL
134	728.06	1.40	419.60				LIGHT GRAY SHALE
334	705.56	23.40	443.00				LT GRAY MASSIVE SANDY SHALE
74	693.56	12.00	455.00				LIGHT GRAY SHALE
13	692.16	1.40	456.40				BONEY COAL
134	690.76	1.40	457.80				LIGHT GRAY SHALE
334	686.76	4.00	461.80				LT GRAY MASSIVE SANDY SHALE
540	684.16	2.60	464.40				GRAY SANDSTONE

GEOLOGICAL INFORMATION SHEET

APPLIC/ ON CAMPBELLS CREEK

HOLE NUMBER WV93-013 (#5) UTM ZONE Ø QUADRANGLE QUICK
 LATITUDE Ø Ø ' Ø " UTMF COORDINATE Ø
 LONGITUDE Ø Ø ' Ø " UTMN COORDINATE Ø
 DRILLER HIGNITE, J. D. DATE 4 / 26 / 93

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 UNIT OF MEASURE - FEET & INCHES ___ FEET & TENTHS X METRIC ___

LOG SHEET

PAGE 4 OF 4 PAGES

ROCK CODE	ELEVATION	UNIT THICKNESS	CUMULATIVE THICKNESS	N.P.	P.A.	SAMPLE NO.	COMMENTS
124	678.96	5.20	469.60				DARK GRAY SHALE
134	670.96	8.00	477.60				LIGHT GRAY SHALE
114	670.71	0.25	477.85				BLACK SHALE
020	669.86	0.85	478.70				COAL
74	667.86	2.00	480.70				LIGHT GRAY SHALE
74	662.86	5.00	485.70				LT GRAY MASSIVE SANDY SHALE
124	638.96	23.90	509.60				DARK GRAY SHALE
023	638.56	0.40	510.00				BONEY COAL
334	634.66	3.90	513.90				LT GRAY MASSIVE SANDY SHALE
023	633.56	1.10	515.00				BONEY COAL
134	630.56	3.00	518.00				LIGHT GRAY SHALE
543	607.26	23.30	541.30				GRAY SANDSTONE W/SHALE STREAKS
134	605.56	1.70	543.00				LIGHT GRAY SHALE
124	597.26	8.30	551.30				DARK GRAY SHALE
334	595.36	1.90	553.20				DARK GRAY SANDY SHALE
124	594.76	0.60	553.80				DARK GRAY SHALE
020	594.36	0.40	554.20				COAL
134	592.71	1.65	555.85				SOFT GRAY SHALE
023	592.05	0.65	556.50				BONEY COAL
134	585.56	6.50	563.00				LIGHT GRAY SHALE
124	579.66	5.90	568.90				DARK GRAY SHALE
134	579.06	0.60	569.50				SOFT GRAY SHALE
124	575.56	3.50	573.00				DARK GRAY SHALE
114	575.06	0.50	573.50				BLACK SHALE
020	572.81	2.25	575.75				COAL - #2 GAS
133	572.66	0.15	575.90				LT GRAY SHALE W/COAL STREAKS
020	572.06	0.60	576.50				COAL
134	570.66	1.40	577.90				LIGHT GRAY SHALE
544	545.56	25.10	603.00				GRAY MASSIVE SANDSTONE

↑ No. 2 Gas ↓

3.0'

3901928P

WW-4A
Revised 6-07

- 1.) Date 2/20/17
- 2.) Operator's Well Number 20-S-115
- 3.) API Well No.: 47-039-01928

**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:
 (a) Name Blue Eagle Land, LLC.
 Address 148 Bristol East Rd.
Bristol, VA 24202

(b) Name _____
 Address _____

(c) Name _____
 Address _____

6) Inspector Terry Urban
 Address P.O. Box 268
Clendenin, WV 25045
 Telephone 304-549-5915

5) (a) Coal Operator
 Name Blue Creek Mining, LLC.
 Address 3228 Summit Square Place, Suite 180
Lexington, KY 40509

(b) Coal Owner(s) with Declaration
 (a) Name Blue Eagle Land, LLC.
 Address 148 Bristol East Rd.
Bristol, VA 24202

Name _____
 Address _____

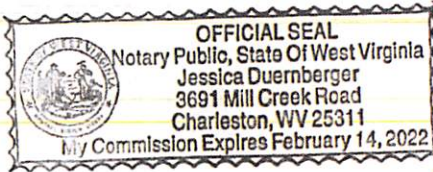
(c) Coal Lessee with Declaration
 Name Blue Creek Mining, LLC.C
 Address 3228 Summit Square Place, Suite 180
Lexington, KY 40509

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 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 Panther Creek Mining, LLC
 By: Gary Acord
 Its: Agent
 Address P.O. Box 99
Dawes, WV. 25054
 Telephone 304-205-8847

Subscribed and sworn before me this 21 day of February, 2017
Jessica Duernberger
 My Commission Expires 2/14/2022

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Office of Oil and Gas

APR 03 2017

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 depprivacyoffier@wv.gov

04/28/2017

SURFACE OWNER WAIVER

Operator's Well Number: 20-S-115

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

Signature Date

FOR EXECUTION BY A CORPORATION,

Name Blue Eagle Land, LLC
By *David E. Kunk*
Its Agent
Date 3-27-17

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04/28/2017

3901928 P

WW-4B

API No.: 47-039-01928

Farm Name: Blue Creek C & L

Well No.: 20-S-115

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 3-27-17

Blue Eagle Land, LLC

By: David C. Kunkle

Its Agent

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WV Department of
Environmental Protection

04/28/2017

WW-4B

API No. 47-039-01928

3901928P

Farm Name Blue Eagle Land, LLC.

Well No. 20-S-115

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

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WAIVER

The undersigned coal operator X / owner / lessee X / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 3/28/2017

Blue Creek Mining, LLC.
By: Harold A. Morris, PE
Its Manager of Engineering

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04/28/2017

39019284

WW-9
(5/16)

API Number 47 - 039 - 01928
Operator's Well No. 20-S-115

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Panther Creek Mining, LLC. OP Code

Watershed (HUC 10) Rattlesnake Quadrangle Quick

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Pit will be built for precautionary purposes

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh Water

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? None

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

-Landfill or offsite name/permit number?

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Mark Morris, P.E.

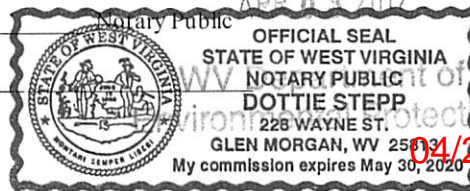
Company Official (Typed Name) Mark Morris

Company Official Title Engineering Manager

Subscribed and sworn before me this 28th day of March, 2017

Dottie Stepp

My commission expires 5/30/2020



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Seed Type	lbs/acre	Seed Type	lbs/acre

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

[Handwritten Signature]

Comments: _____

Title: _____

Inspector [Signature]

Date: _____

3-15-17

Field Reviewed? Yes No

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04/28/2017

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

Operator Name: Blue Creek Mining, LLC.
Watershed (HUC 10): Rattlesnake Hollow Quad: Quick
Farm Name: Blue Eagle Land, LLC.

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Plugging of gas well. Water used during drilling is pumped through a pipe and discharged into a lined pit. The pit is designed to hold approximately 150% of the anticipated drilling water. The slurry (drilling water and cuttings) in the pit is allowed to solidify and any remaining water will be sampled by a certified lab before the pit is reclaimed. The only water anticipated to be discharged to the pit is the drilling water. Brine water is not expected to be encountered while drilling and plugging the well. Water discharged into the pit may be used to mix the cement used to plug the well.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Water used during drilling is pumped through a pipe and discharged into a lined pit. The pit is designed to hold approximately 150% of the anticipated drilling water. The slurry (drilling water and cuttings) in the pit is allowed to solidify and any remaining water will be sampled by a certified lab before the pit is reclaimed. Straw bales, oil absorption pads, and silt fence will be available on the mine property in case of spills.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

The closest body of water is the rattlesnake toe pond that is approximately 3,484 ft. from the well site. This toe pond discharges into an in stream pond Rattlesnake pond #1, which is approximately 3,500 ft. from the well site.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

Mining and processing operations - storage tanks regulated under two GPP plans.

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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04/28/2017

Rattlesnake Hollow is sampled bimonthly. The adjacent watershed, Five mile hollow is also sampled bimonthly. The results of the bimonthly samplings is submitted to the WV DEP.

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or for fill material.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Each employee and contractor involved in the drilling and plugging of the well operation will be trained on the proper environmental procedures of the job. The proper environmental procedures of the job are as follows: The pit and area around the pit will be visually examined daily for leaks and tears. If a leak or tear is observed, discharge to the pit will cease until proper repairs can be made to the pit or liner. Drilling equipment will be inspected each day before work begins to ensure there is no fluid leaks. Straw bales, oil absorption pads, and silt fences will be available on the drilling site in case of spills. Any contaminated materials will be properly disposed of in specially marked containers. If there is any remaining water in the pit, it will be analyzed by a lab before the pit is reclaimed.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

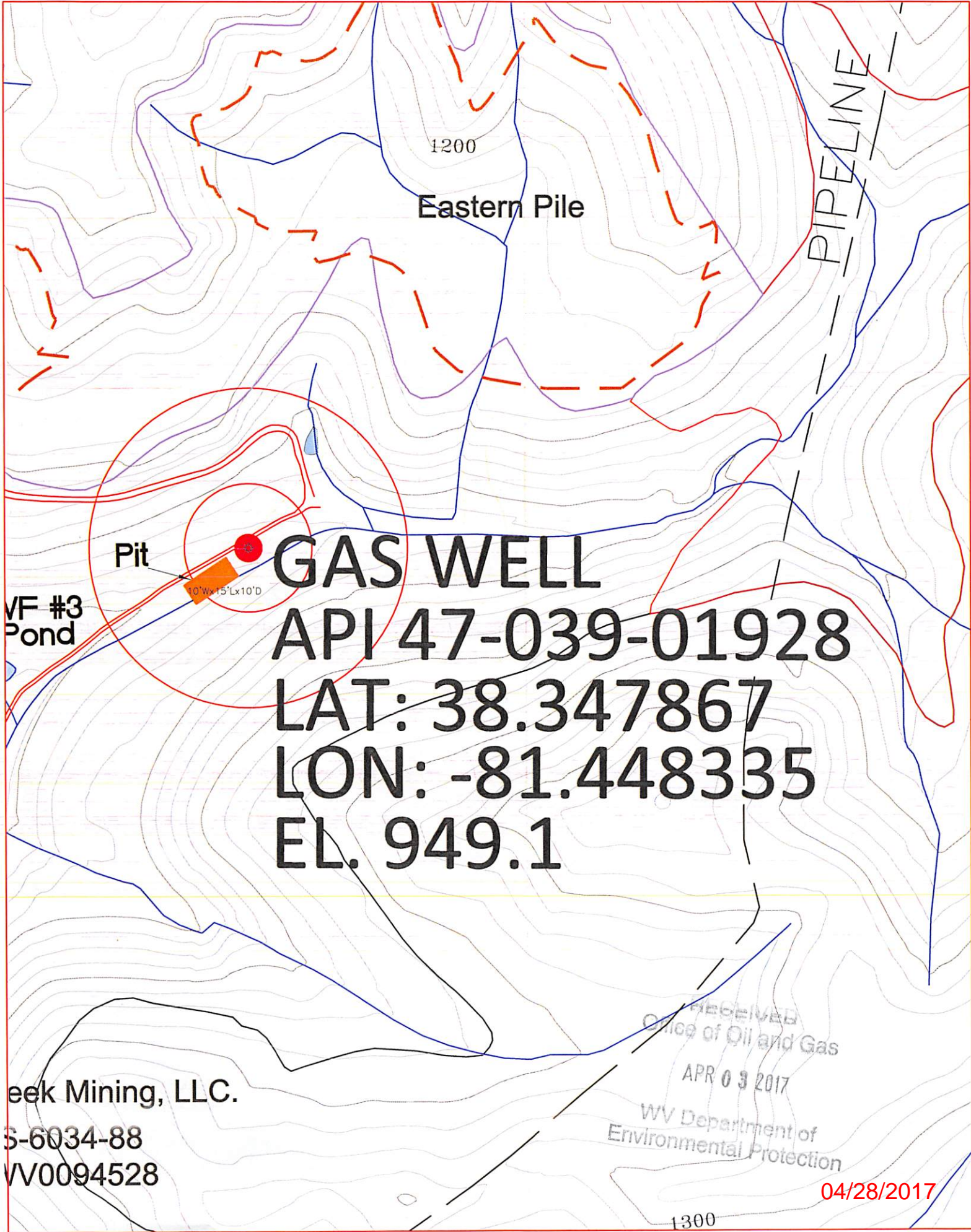
The pit and area around the pit will be visually inspected daily for leaks and tears. Any remaining water in the pit will be analyzed by a lab before the pit is reclaimed. Drilling equipment will be inspected each day before work begins to ensure the is no fluid leaks. Straw bales, oil absorption pads, and silt fence will be available on the drilling site in case of spills.

Signature: Maria A. Morris, P.E.

Date: 3/28/2017

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WV Department of
Environmental Protection
04/28/2017

3901928P



1200

Eastern Pile

PIPELINE

Pit

10'Wx15'Lx10'D

GAS WELL

API 47-039-01928

LAT: 38.347867

LON: -81.448335

EL. 949.1

VF #3 Pond

Peak Mining, LLC.

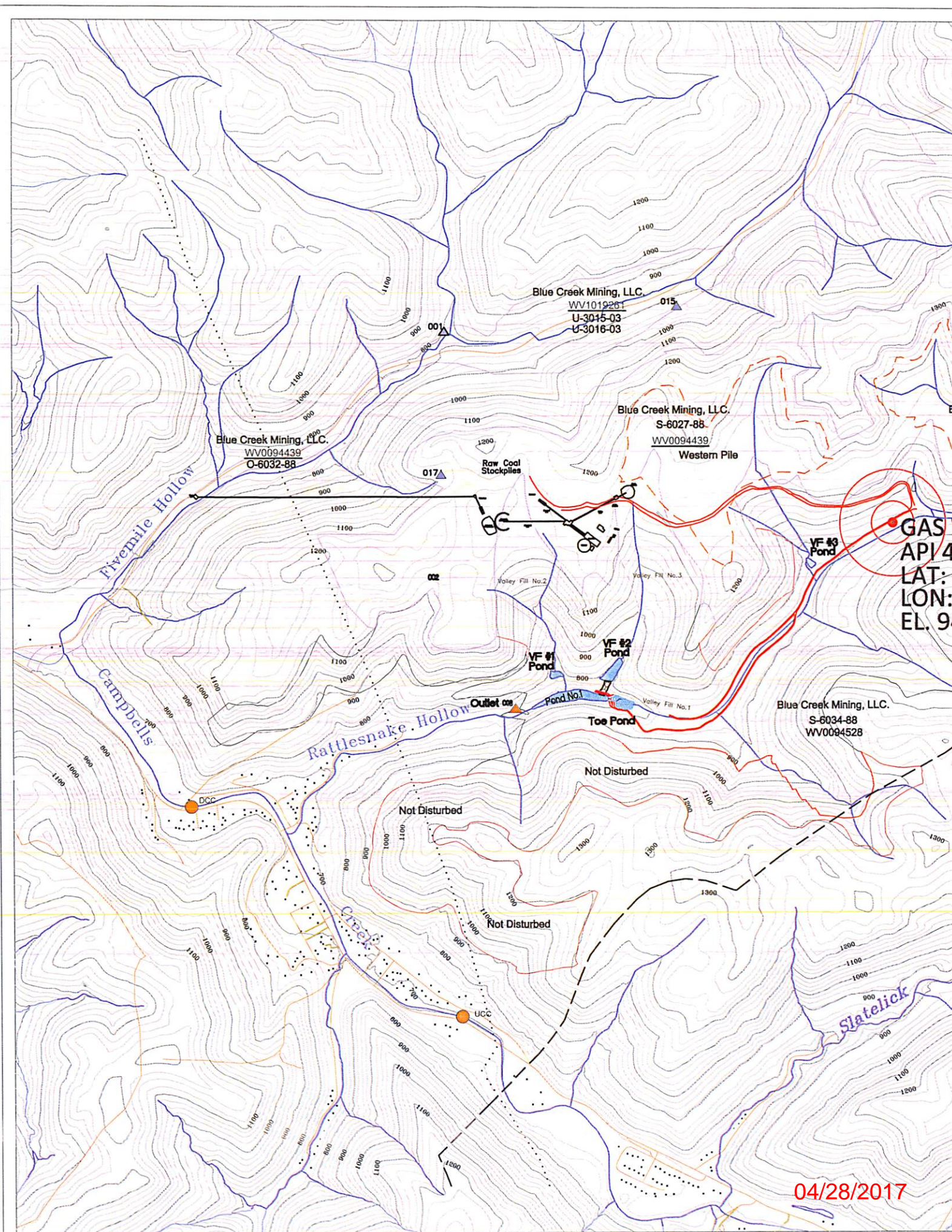
S-6034-88

WV0094528

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04/28/2017

1300



Blue Creek Mining, LLC.
WV0094439
O-6032-88

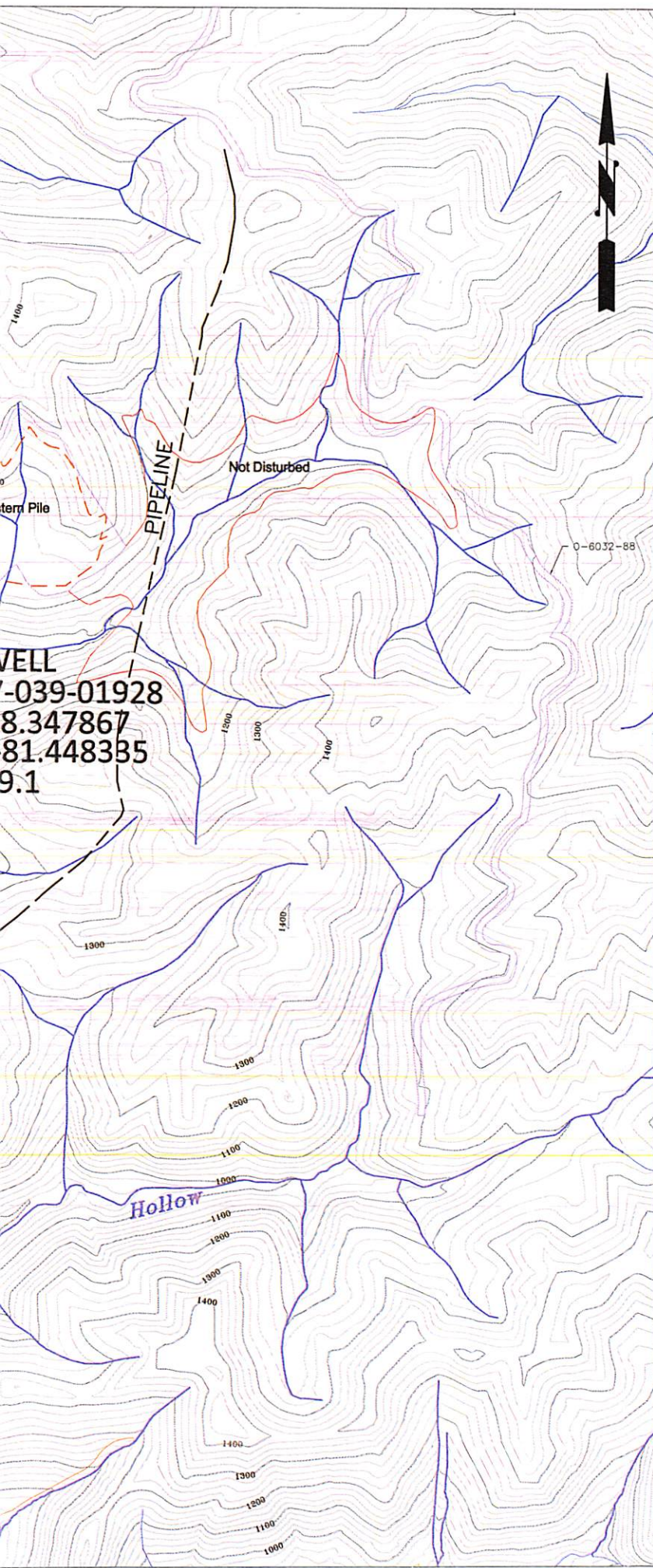
Blue Creek Mining, LLC.
WV1019261
U-3015-03
U-3018-03

Blue Creek Mining, LLC.
S-6027-88
WV0094439
Western Pile


Blue Creek Mining, LLC.
S-6034-88
WV0094528

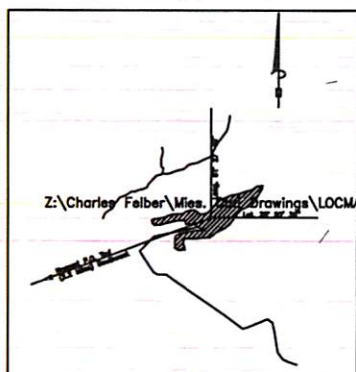
GASV
API 4
LAT: 3
LON: 94
EL: 94

04/28/2017



WELL
 039-01928
 8.347867
 81.448335
 9.1












LOCATION MAP
 WV GENERAL HIGHWAY MAP
 SCALE 1" = 1 MILE
 NPDES WV0094528
 Art. 3 Permit No. S-6034-88

QUICK USGS Quad. Post Office - Tad Malden District Kanawha County
 Receiving Streams: Rattlesnake Hollow of Campbelle Creek of the Kanawha River

Legend

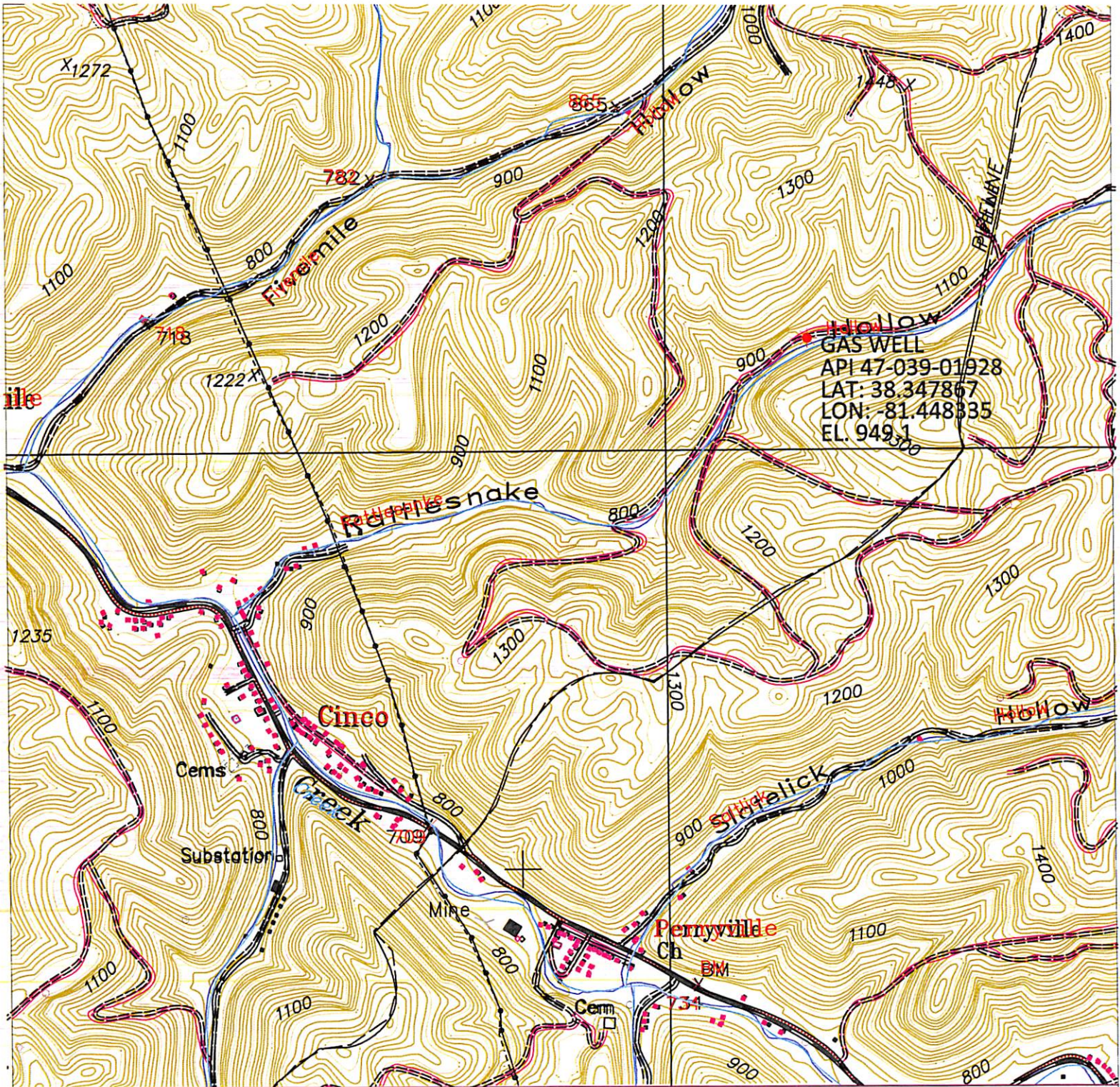
-  Natural Drainway
-  Road
-  Gas Well API 047-039-01928
-  Sediment Structures
-  DCC NPDES In-Stream Monitoring Point
-  008 NPDES Outfall Monitoring Points

State of West Virginia, County of: <u>Kanawha</u> Taken, Subscribed, and sworn to before me this _____ day of _____ Notary _____ My commission expires: _____	I, the undersigned, hereby certify that this map is correct and shows, to the best of my knowledge and belief, all the information required by the mining laws of the state. _____ Professional Engineer
---	--

DRAWN DATE BY 1/06 CJF REVISED DATE BY 9/06 CJF 6/11 GSB 2/14 GSB	 <p>Blue Creek Mining, LLC. 110 Catenary Coal Company Road Charleston, West Virginia 25308</p>	APR 11 2017 Rattlesnake Hollow Gas Well Location Map NPDES No. WV0094528 Environmental Protection
APPROVED DATE BY _____ _____	Malden District Quick Quadrangle Kanawha County	SCALE 0 500 FILE NO. WV0094528 Exhibit 14-III-A SHEET NO. 1 of 1

04/28/2017

3901928P



GAS WELL
 API 47-039-01928
 LAT: 38.347867
 LON: -81.448335
 EL. 949.1

- REFERENCES:
1. 7.5 MIN. U.S.G.S. TOPOGRAPHIC MAP OF QUICK QUADRANGLE, WEST VIRGINIA
 2. COORDINATES WEST VIRGINIA SOUTH-NAD 27

GAS WELL LOCATION MAP
API NO. 47-039-01928
MALDEN DISTRICT
KANAWHA COUNTY, WEST VIRGINIA

GAS WELL
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 Environmental Protection
 04/28/2017



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

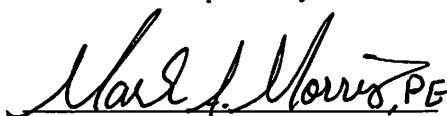
API: 47-039-01928 WELL NO.: 20-S-115
FARM NAME: Blue Eagle Land, LLC.
RESPONSIBLE PARTY NAME: Blue Creek Mining, LLC.
COUNTY: Kanawha DISTRICT: Malden
QUADRANGLE: Quick
SURFACE OWNER: Blue Eagle Land, LLC.
ROYALTY OWNER: Blue Eagle Land, LLC.
UTM GPS NORTHING: 4244518.9
UTM GPS EASTING: 460837.9 GPS ELEVATION: 949.1

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 X : Post Processed Differential _____
Real-Time Differential _____
Mapping Grade GPS X : 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

Engineering Manager
Title

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Office of Oil and Gas
3/28/2017
Date

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