



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, June 7, 2021

WELL WORK PLUGGING PERMIT
Vertical Plugging

PILLAR ENERGY, LLC
1244 MARTINS BRANCH RD
CHARLESTON, WV 25312

Re: Permit approval for 3969
47-039-02048-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 3969
Farm Name: BLACK LAND COAL CO.
U.S. WELL NUMBER: 47-039-02048-00-00
Vertical Plugging
Date Issued: 6/7/2021

Promoting a healthy environment.

06/11/2021

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4703902048P

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

06/11/2021

4703902048P

WW-4B
Rev. 2/01

1) Date January 4, 2021
2) Operator's
Well No. Black Band Coal 3969
3) API Well No. 47-039 - 02048

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 1208.53' Watershed Davis Creek - Upper Kanawha River
District Loudon County Kanawha Quadrangle Charleston WV C6

6) Well Operator Pillar Energy, LLC 7) Designated Agent Jeff Isner
Address 1244 Martins Branch Rd Address 1244 Martins Branch Rd
Charleston, WV 25312 Charleston, WV 25312

8) Oil and Gas Inspector to be notified Name Terry Urban
Address 601 57th St, SE ROBINSON
Charleston, WV 25304 Clendenin WV
25045

9) Plugging Contractor Name Pillar Energy, LLC
Address 1244 Martins Branch Rd
Charleston, WV 25312

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

SEE ATTACHED *gmm*

gmm
[Signature]

*If well head change out does not work Operator
to Cover all Oil & Gas formation including Salt & Elevation
Freshwater & Coal Displace all with 4% Gel*

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JAN 19 2021

WV Department of
Environmental Protection

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

Work order approved by inspector *[Signature]* Date 1-11-21

06/11/2021

Black Band Coal 5 (3969)
 API# 47-039-02048
 Elevation: 1209' GL
 Latitude/Longitude: 38.236997, -81.639236

Black Band Coal 5 (3969) Well Data (Drilled 0/1929, Deepened October 1965)

Casing: 10" ?? ppf Surface csg @ 356' GL.
~~8-1/4" ?? ppf Intermediate Csg @ 1250'~~ POOH after setting 6-5/8"
 6-5/8" ?? ppf Intermediate Csg @ 1579' GL.
 4-1/2" 11.6 ppf Production Csg @ 5621' GL, Cmntd w/ 100 sx

TD: 5672'

Perforations: 5575' – 5579' (14 holes)

Coal: 60' – 65', & 190' – 193'

Fresh Water Shows: 130'-35'

Salt Water Shows: 915'-20'

Gas/Oil Shows: 1400' – 04', 1581' -1635', & 5575' - 79'

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MAY 21 2021

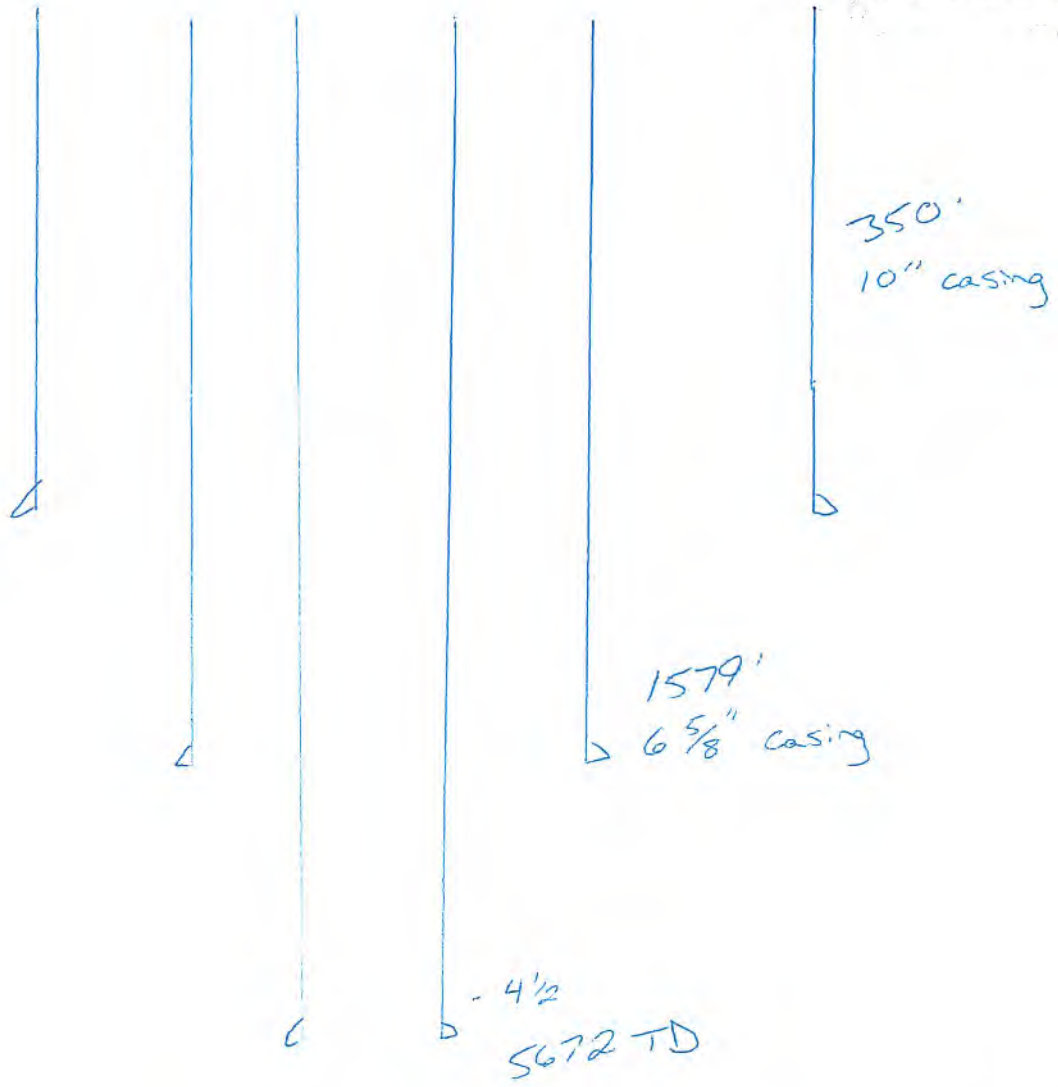
WV Department of
 Environmental Protection

Black Band Coal 5 (3969) Procedure:

1. Notify State Inspector, Terry Urban – (304)-549-5915 - Terry.W.Urban@wv.gov 24 hours prior to commencing operations.
2. Prep location.
3. MIRU service rig, steel pits, and other ancillary equipment.
4. Blow well down and check for H2S, load hole w/ FW to kill well if necessary.
5. RIH w/ work string 5600'
6. Pump 5 BBI 6% gel.
7. Set 100' latex cement plug F/ 5600' T/ 5500'. (Perfs @ 5575' - 5579').
8. TOOH to 4000', WOC 8 hrs, RIH & tag plug, add cement if needed.
9. Circulate 6% gel from TOC to surface.
10. 4-1/2" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed, with 6% gel spotted between each plug.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
11. Perform Freepoint on 6-5/8" csg and note where free.
12. 6-5/8" casing will be pulled, or ripped and removed from well bore where free. The following cement plugs set will be set, w/ 6% gel spotted between each plug.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 150' plug F/ 1650' – T/ 1500'.
 - c. 100' plug F/ 1450' – T/ 1350'. (Perfs required @ 1450' if 6-5/8" csg is present)
 - d. 100' plug F/ 1250' – T/ 1150'. (Perfs required @ 1250' if 6-5/8" csg is present)
 - e. 100' plug F/ 950' – T/ 850'. (Perfs required @ 950' if 6-5/8" csg is present)
13. 10" casing will be pulled, or ripped and removed from well bore where free. The following cement plugs set will be set, w/ 6% gel spotted between each plug.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 200' plug F/ 200' – T/ surface'. Perforations are required at 200', 150' & 75' if 10" csg is still present.
14. Erect a monument to WV DEP specifications (CSR 35-4-5.5 – sub "b").
15. Reclaim location and roads to WV DEP Specifications.

Elevation 1241.35

4703902048P



- Plug 50' above and below producing formation
- Estimate plug where we rip or cut 4 1/2 @ TOC 4628'
- Freepoint and attempt to pull 6 5/8"
- Run gel spacers in between plugs
- Erect a monument to WVDEP specifications

HZS!

Operator will cover with Cement a k
Oil & Gas bearing formation including Salt zones & Elevation
Freshwater & Coal Displace All 6% Gel

Will use latex Cement

[Signature] 1-13-21 RECEIVED
Office of Oil and Gas

JAN 19

06/11/2021
WV Department of
Environmental Protection

4703902048P

Form 1 3-21-24-3-29

Lease No. 16715

A4

Map Square 60

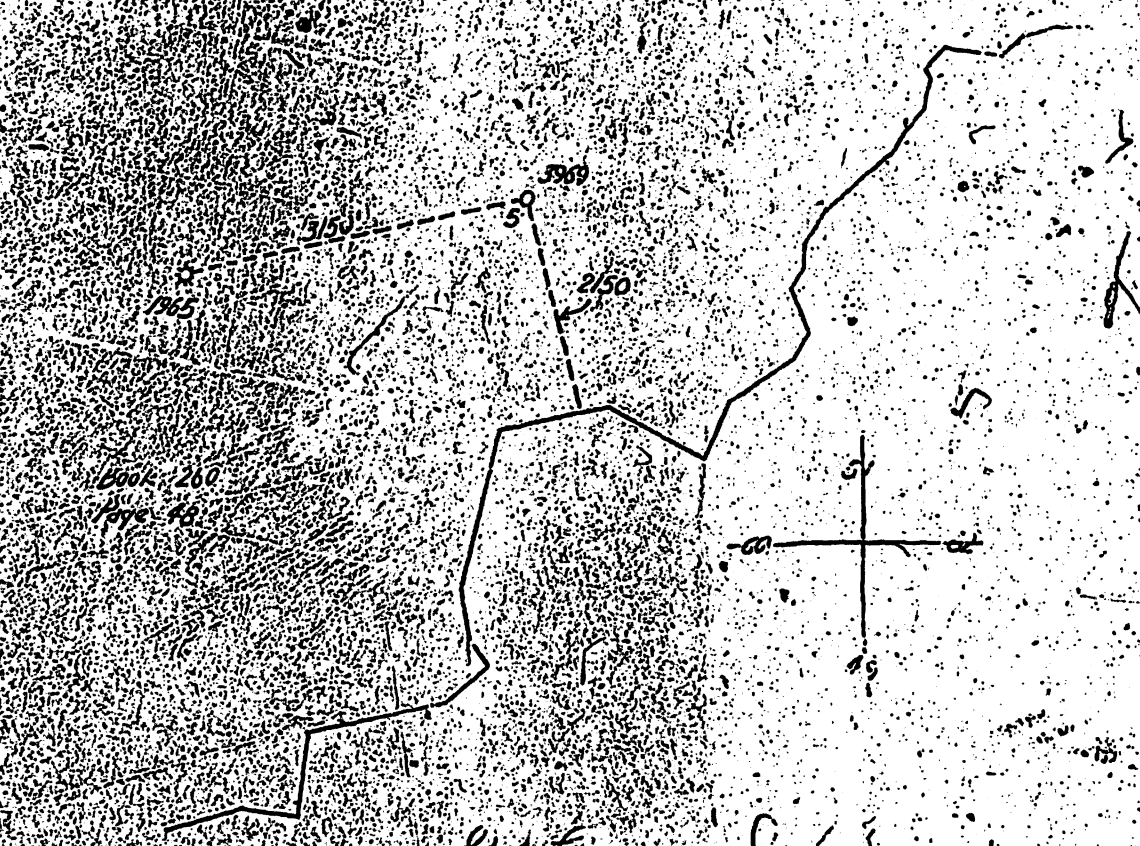
UNITED FUEL GAS COMPANY

WELL LOCATION Kanawha FIELD _____
 Well No. 3969 Block and Lot Farm; 1207 Acres. On _____
Luden Dist. Kanawha Co. W. Va. State _____
 Scale 1" = 1320'
 Location made by S. P. Ferrell Date May 6, 1919
 Elevation 1210 Approx

Operator: _____
 Recorder: _____
 Club: _____
 Inspector: _____

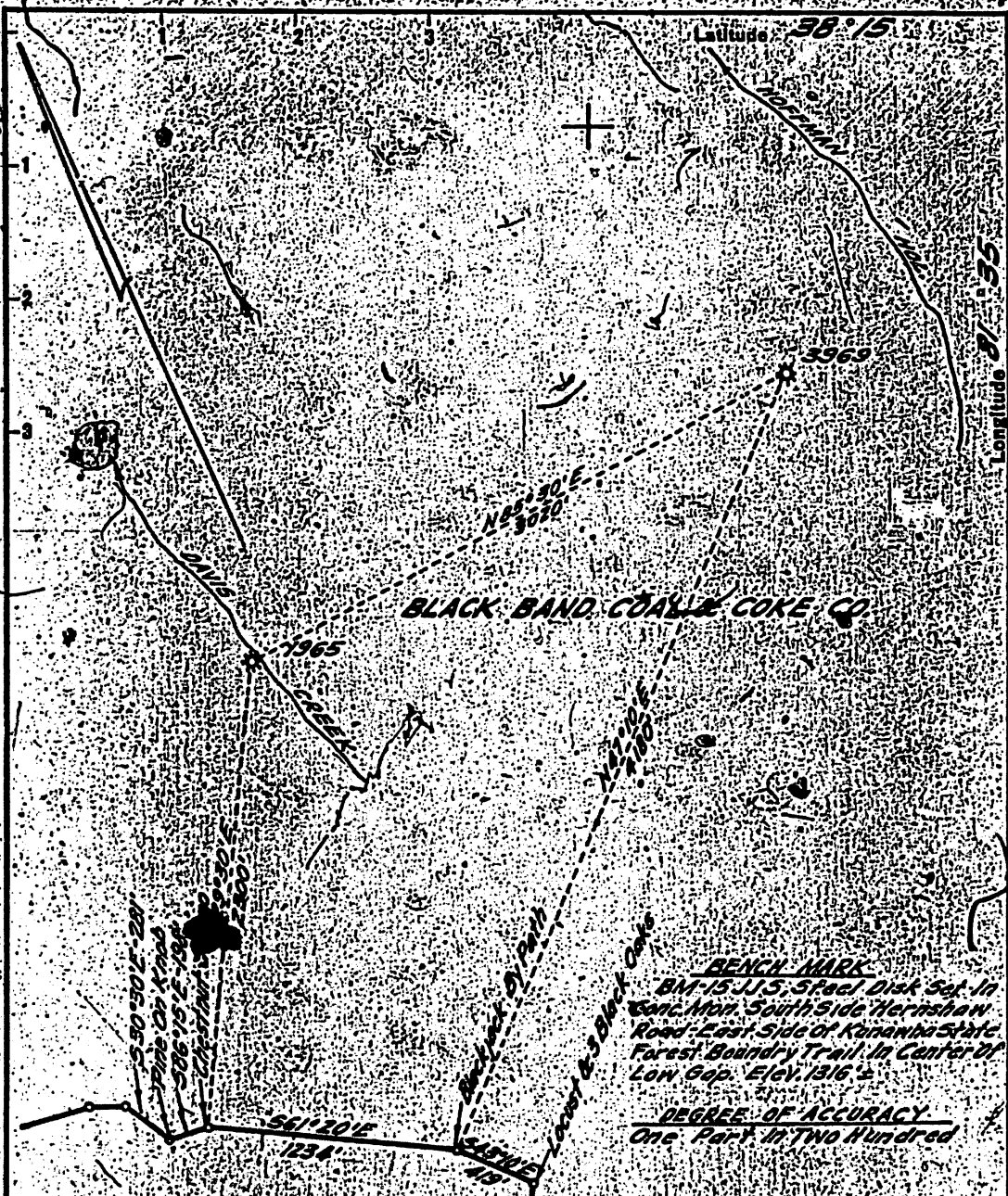
buildings within 200 or 200'

Lat. 38° 14' 14"
Long. 81° 38' 22"



Approved M. J. A. 1919 G. A. Cunningham Engineer
 Approved _____ 19____ President

(53)



BENCH MARK
 BM-15-115, 5' Incl. Disk Set in
 Conc. Man. South Side Hermitage
 Road East Side of Kanawha State
 Forest Boundary Trail in Center of
 Low Gap. Elev. 1316 1/2

DEGREE OF ACCURACY
 One Part in Two Hundred

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Seybert R. Jewell

New Location
 Drill Deeper
 Abandonment

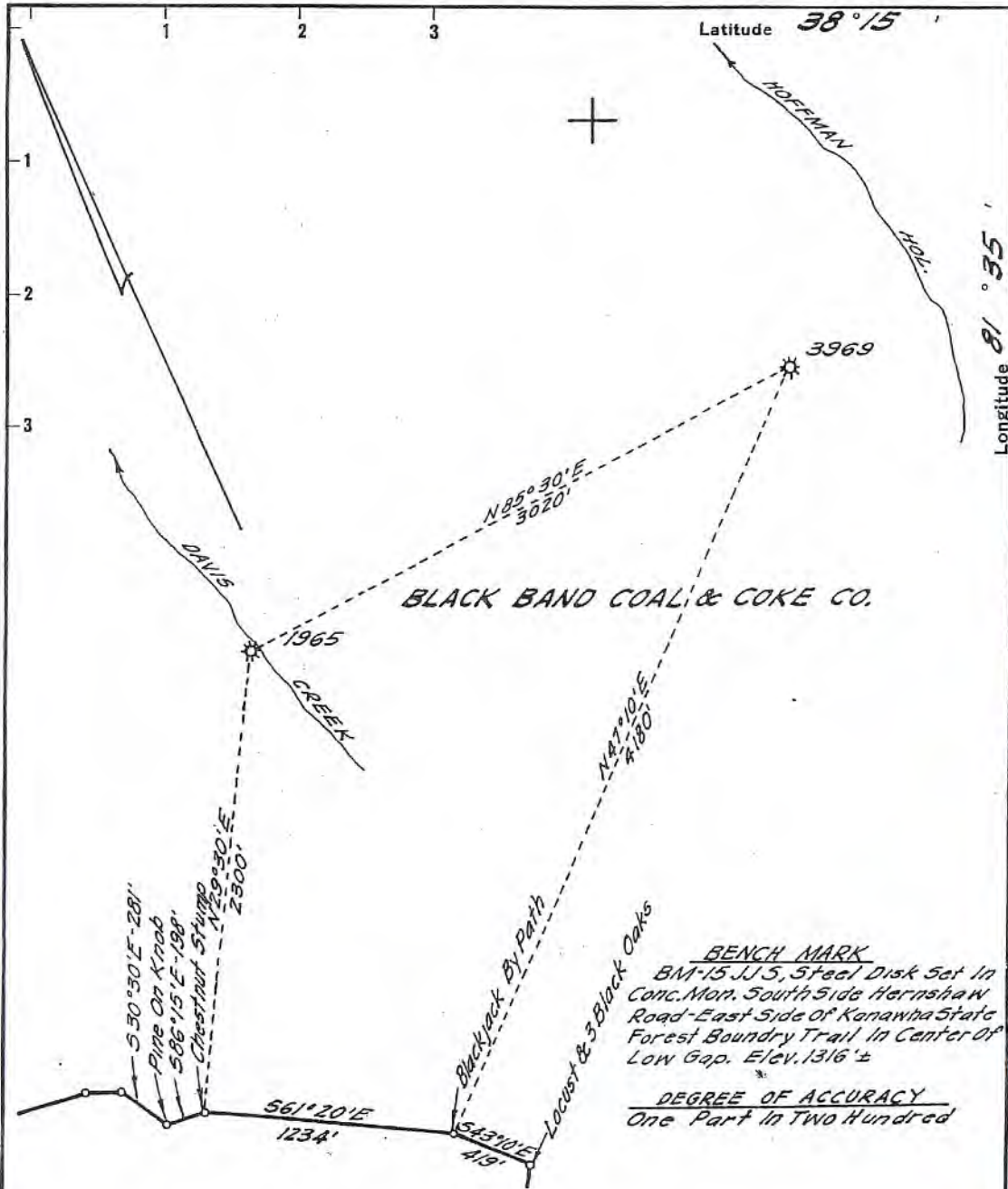
Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Form BLACK BAND COAL & COKE CO.
 Tract Acres 12007 Lease No. 16715
 Well (Farm) No. 5 Serial No. 3969
 Elevation (Spirit Level) 1208.53'
 Quadrangle PEYTONA
 County KANAWHA District LOUDON
 Engineer Seybert R. Jewell
 Engineer's Registration No. 2580
 File No. 60-51 Drawing No. _____
 Date JUNE 23, '65 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. KAN-2048-D

+ 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.



New Location
 Drill Deeper
 Abandonment

Seybert R. Hewell

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm BLACK BAND COAL & COKE CO.
 Tract _____ Acres 12007 Lease No. 16715
 Well (Farm) No. 5 Serial No. 3969
 Elevation (Spirit Level) 1208.53'
 Quadrangle PEYTONA
 County KANAWHA District LOUDON
 Engineer Seybert R. Hewell
 Engineer's Registration No. 2529
 File No. 60-51 Drawing No. _____
 Date JUNE 23, '65 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. KAN-2048-D

+ 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.

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JUN 19 1965

WV Department of Environmental Protection

06/11/2021



Select County: Select datatypes: (Check All)

Enter Permit #:

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 39 Permit = 02048

Report Time: Friday, March 12, 2021 12:11:14 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_16	LAT_DD	LONG_DD	UTME	UTMN
4703902048	Kanawha	2048	Louden	Racine	Peytona	38.236997	-81.639236	444057.6	4232304

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4703902048	7/27/1929	Original Loc	Completed	Black Band Coal & Coke	5	3969				United Fuel Gas Co.			
4703902048	10/27/1965	Drilled Deeper	Completed	Blank Bnd C&C	5	3969				United Fuel Gas Co.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEV	G_AFT
4703902048	7/27/1929	6/13/1929	1208	Ground Level	Hmshw-Bull Crk	Big Lime		Development Well	Development Well	Gas	Cable Tool	Nat/Open H	1697		1697		184	0
4703902048	10/27/1965	10/9/1965	1208	Ground Level	Kanawha Frst	McKenzie Fm		Development Well	Development Well	Gas	Rotary	Fractured	5623		3526		0	2477

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEV	G_AFT	O_BEV	O_AFT	WATER_QNTY
4703902048	7/27/1929	Show	Gas	Vertical	1400	Maxton	1404	Maxton	0	0			
4703902048	7/27/1929	Pay	Gas	Vertical	1581	Big Lime	1635	Big Lime	184	0			
4703902048	10/27/1965	Pay	Gas	Vertical	5575	Newburg	5579	Newburg	0	2477			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703902048	Columbia Gas Transmission Corp.	1980	6,577	481	529	378	511	452	590	0	0	0	1,515	925	1,196
4703902048	Columbia Gas Transmission Corp.	1981	5,656	725	475	714	652	602	572	483	363	133	2	0	935
4703902048	Columbia Gas Transmission Corp.	1982	2,528	416	555	706	364	370	98	0	0	0	0	0	19
4703902048	Columbia Gas Transmission Corp.	1983	93	0	0	0	0	0	0	0	0	0	0	0	17
4703902048	Columbia Gas Transmission Corp.	1984	2,161	93	233	148	152	726	103	158	347	0	0	0	201
4703902048	Columbia Gas Transmission Corp.	1985	3,017	633	414	484	404	611	426	45	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1986	2,743	368	480	362	425	205	504	399	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	1998	106	0	0	0	0	0	47	31	0	0	0	0	28
4703902048	Malcolm, D. C., Inc.	1999	75	0	31	0	0	0	17	0	27	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2000	92	0	13	17	0	0	23	0	21	0	0	0	18
4703902048	Malcolm, D. C., Inc.	2001	108	19	0	0	17	21	0	18	17	0	0	0	16
4703902048	Columbia Natural Resources, Inc. (CNR)	2002	145	26	19	0	0	21	0	17	23	0	0	0	18
4703902048	Malcolm, D. C., Inc.	2003	151	0	21	18	0	0	26	17	0	0	33	0	36
4703902048	Columbia Natural Resources, Inc. (CNR)	2004	139	17	21	0	0	16	0	15	0	31	0	0	17
4703902048	Columbia Natural Resources, Inc. (CNR)	2005	103	16	0	17	15	0	0	14	13	0	16	0	12
4703902048	Malcolm, D. C., Inc.	2006	106	17	15	0	0	12	14	0	13	16	0	12	7
4703902048	Malcolm, D. C., Inc.	2007	114	15	12	0	9	17	13	8	16	0	11	5	8
4703902048	Malcolm, D. C., Inc.	2008	108	12	0	9	15	16	11	0	16	9	12	0	8
4703902048	Malcolm, D. C., Inc.	2009	84	0	11	9	16	12	7	10	0	6	8	5	0
4703902048	Malcolm, D. C., Inc.	2010	83	10	11	0	14	10	9	11	0	7	5	0	6
4703902048	Malcolm, D. C., Inc.	2011	82	11	9	12	9	0	8	7	10	8	0	5	3
4703902048	Malcolm, D. C., Inc.	2012	64	9	10	13	10	7	0	8	11	0	0	0	3
4703902048	Pillar Energy, LLC	2013	81	10	11	12	9	0	6	8	0	3	9	8	5
4703902048	Pillar Energy, LLC	2014	83	10	11	0	14	10	9	11	0	7	5	0	6
4703902048	Pillar Energy, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703902048	Columbia Gas Transmission Corp.	1980	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Gas Transmission Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Columbia Natural Resources, Inc. (CNR)	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2001	82	11	9	12	9	0	8	7	10	8	0	5	3
4703902048	Columbia Natural Resources, Inc. (CNR)	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2003	81	10	11	12	9	0	6	8	0	3	9	8	5
4703902048	Columbia Natural Resources, Inc. (CNR)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Malcolm, D. C., Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2014													

4703902048 P

4703902048	Pillar Energy, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703902048	Malcolm, D. C., Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703902048	Pillar Energy, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4703902048	Pillar Energy, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703902048	Original Loc	unidentified coal	Well Record	60	Reasonable	5	Reasonable	1209	Ground Level
4703902048	Original Loc	unidentified coal	Well Record	190	Reasonable	3	Reasonable	1209	Ground Level
4703902048	Original Loc	1st Salt Sand	Well Record	775	Reasonable	40	Reasonable	1209	Ground Level
4703902048	Original Loc	2nd Salt Sand	Well Record	835	Reasonable	55	Reasonable	1209	Ground Level
4703902048	Original Loc	3rd Salt Sand	Well Record	895	Reasonable	185	Reasonable	1209	Ground Level
4703902048	Original Loc	Maxton	Well Record	1385	Reasonable	82	Reasonable	1209	Ground Level
4703902048	Original Loc	Little Lime	Lee Avary	1480	Reasonable	44	Reasonable	1209	Ground Level
4703902048	Original Loc	Pencil Cave	Lee Avary	1524	Reasonable	3	Reasonable	1209	Ground Level
4703902048	Original Loc	Greenbrier Group	Well Record	1527	Reasonable	170	Reasonable	1209	Ground Level
4703902048	Original Loc	Big Lime	Well Record	1527	Reasonable	170	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	Big Injun (Price&eq)	Well Record	1745	Reasonable	30	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	Berea Ss	Well Record	2190	Reasonable	3	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	Onondaga Ls	Well Record	4795	Reasonable	98	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	Criskany	Well Record	4893	Reasonable	10	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	Newburg	Well Record	5567	Reasonable	26	Reasonable	1209	Ground Level
4703902048	Drilled Deeper	McKenzie Fm	Well Record	5593	Reasonable	0	Reasonable	1209	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4703902048	70	5610			G.D.I.C.*	Y	N	70	5584	4750	5610			4750	5604			4750	5602			Y	Y

Comment: *logs:Caliper,Spontaneous Potential

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

Sample Information:

API	CUT1_TOP	CUT1_BOT	CUT2_TOP	CUT2_BOT	CORE1_TOP	CORE1_BOT	FM1_TOP	FM1_BOT	CORE2_TOP	CORE2_BOT	FM2_TOP	FM2_BOT	SMPL	THN_SEC1	SCAN1	SLAB1	PERM1	THN_SEC2	
4703902048	4610	5605																	

06/11/2021

McLaughlin, Jeffrey W

From: Bartley, Chris R
Sent: Friday, March 12, 2021 1:02 PM
To: McLaughlin, Jeffrey W
Subject: Re: surface owner waiver

That is my signature. I don't remember signing, but I sign a lot of things through the course of a day. It is my handwriting as well with the date, so I know it is mine.

Chris

Christopher Bartley
Park Superintendent
Kanawha State Forest
7500 Kanawha State Forest Dr
Charleston, WV 25314
(304) 558-3500
Chris.R.Bartley@wv.gov

"Hard work, dedication, and desire don't guarantee you a thing, but without them, you don't stand a chance."

From: McLaughlin, Jeffrey W <Jeffrey.W.McLaughlin@wv.gov>
Sent: Friday, March 12, 2021 1:01 PM
To: Bartley, Chris R <Chris.R.Bartley@wv.gov>
Subject: surface owner waiver

Chris,

I received this surface owner waiver for oil and gas well work to the Black Band Coal 3969 well. Has this been signed by you or your staff?

Regards

Jeffrey W. McLaughlin

Jeff McLaughlin, B.S. Petroleum Eng.
Technical Analyst, Office of Oil & Gas
WV Dept. of Environmental Protection
Phone: 304-926-0499 Ext. 41110

From: 14265@wv.gov <14265@wv.gov>
Sent: Friday, March 12, 2021 1:09 PM

To: McLaughlin, Jeffrey W <Jeffrey.W.McLaughlin@wv.gov>
Subject: Message from KM_C458

UNITED FUEL GAS COMPANY
COMPANY

SERIAL WELL NO. 3969 LEASE NO. 16715 MAP SQUARE 60-51

RECORD OF WELL NO. <u>3969</u> on the <u>Lack Band Coal & Coke Company</u> farm of <u>12,007.9</u> Acres	CASING AND TUBING				TEST BEFORE SHOT
in <u>Loudon</u> District <u>Kanawha</u> County	SIZE <u>4-1/2"</u>	WEIGHT <u>11#</u>	USED IN DRILLING <u>5672'</u>	LEFT IN WELL <u>5672'</u>	/10 of Water in.....inch /10 of Merc. in.....inch Volume.....Cu. ft.
State of: <u>West Virginia</u>					TEST AFTER SHOT <u>frac.</u>
Field: <u>Central Division</u>					/10 of Water in.....inch
Rig Commenced By Contractor <u>19</u>					<u>16</u> /10 of Merc. in... <u>4"</u> inch
Rig Completed By Contractor <u>19</u>					Volume... <u>2,477 MCF</u> Cu. ft.
Drilling Commenced <u>October 9, 1965</u>					When Shut In Hours After Shot
Drilling Completed <u>October 27, 1965</u>					Rock Pressure <u>48 Hr. 2015#</u>
Drilling to cost _____ per foot					Date shot <u>frac. 10-29-65</u>
Contractor is: <u>Ray Brothers Corporation</u>					<u>688 Bbl. Sand Laden Fluid</u> Size of Torpedo <u>30,000# 20/40</u> <u>Sand, 750# J-111, 500#</u>
Address: <u>Charleston, West Virginia</u>	SHUT IN				Oil Flowed.....bbls. 1st 24 hrs.
	Date <u>November 22, 1965</u>				<u>J-84 & 20 Gal. F-52</u> Oil Pumped.....bbls. 1st 24 hrs.
Driller's Name <u>Jodie Parson</u>	<u>4 1/2"</u> in. Casing	Tubing or Casing			
<u>T.J. Muncy, Jr.</u>	Size of Packer... <u>4-1/2"</u>			Well abandoned and	
<u>George Ackman</u>	Kind of Packer... <u>Guide Shoe</u>			Plugged.....19	
Drilling Permit No. <u>KAN-2048-D</u>	1st. Perf. Set. <u>5575'</u> from <u>5579'</u>				
Elevation: <u>1241.35'</u>	2nd Perf. Set.from.....				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Begin Drilling at	1697'			
Big Lime	1697'	1745'	48'	
Injun	1745'	1775'	30'	
Shale	1775'	2190'	415'	
Berea	2190'	2193'	3'	
Shale	2193'	4795'	2602'	RECEIVED Office of Oil and Gas
Cornif. Lime	4795'	4893'	98'	JAN 19
Oriskany	4893'	4903'	10'	
Lime & Dolomite	4903'	5567'	664'	WV Department of Environmental Protection
Newburg	5567'	5593'	26'	
Lime & Dolomite	5593'	5623'	30'	
Total Depth	5623'			

APPROVED

R. S. Muncy
DIVISION SUPERINTENDENT

UNITED FUEL GAS COMPANY
COMPANY

SERIAL WELL NO. 3969

LEASE NO. 16715

MAP SQUARE 60-51

RECORD OF WELL NO. <u>3969</u> on the	CASING AND TUBING				TEST BEFORE SHOT
Black Band Coal & Coke Company	<u>12,007.9</u> Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL
in <u>Loudon</u> District		<u>4-1/2"</u>	<u>11#</u>	<u>5672'</u>	<u>5672'</u>
<u>Kanawha</u> County					
State of: <u>West Virginia</u>					
Field: <u>Central Division</u>					
Rig Commenced By Contractor <u>19</u>					<u>16</u> /10 of Water in <u>1"</u> inch
Rig Completed By Contractor <u>19</u>					Volume <u>2,477 MCF</u> Cu. ft.
Drilling Commenced <u>October 9, 1965</u>					When Shut In Hours After Shot
Drilling Completed <u>October 27, 1965</u>					Ruck Pressure <u>48 Hr. 2015#</u>
Drilling to cost per foot					Date <u>10-29-65</u>
Contractor is: <u>Ray Brothers Corporation</u>					<u>588 Bbl. Sand Laden Fluid</u>
Address: <u>Charleston, West Virginia</u>					Size of Torpedo <u>30,000# 20/40</u>
					<u>Sand, 750# J-11, 500#</u>
					Oil Flowed <u>1 bbl. 1st 24 hrs.</u>
					<u>J-84 & 20 Gal. F-52</u>
					Oil Pumped <u>bbls. 1st 24 hrs.</u>
Driller's Name <u>Jodie Parson</u>					
<u>T.J. Mancy, Jr.</u>					
<u>George Ackman</u>					
Drilling Permit No. <u>KAN-2048-D</u>					
Elevation: <u>1241.35'</u>					

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Begin Drilling at	1697'			
Big Lime	1697'	1745'	48'	
Injun	1745'	1775'	30'	
Shale	1775'	2190'	415'	
Berea	2190'	2193'	3'	
Shale	2193'	4795'	2602'	
Cornif. Lime	4795'	4893'	98'	
Oriakany	4893'	4903'	10'	
Lime & Dolomite	4903'	5567'	664'	
Newburg	5567'	5593'	26'	
Lime & Dolomite	5593'	5623'	30'	
Total Depth	5623'			

APPROVED

A. S. Mace
DIVISION SUPERINTENDENT



9
UNITED FUEL GAS COMPANY
 (INCORPORATED)

Serial Well No. **3969** sheet **28** Lease No. _____ Map Square _____

RECORD OF WELL No. 3969 in the Farm of _____ Acres _____ in the _____ District _____ County _____ State of _____		Casing and Tubing Size Used in Left in Drilling Well 30 30 30 31-4 32-8 33-11 47-8 4 3 3			TEST BEFORE SHUT _____ of Water in _____ Inch 10th _____ of Merc. in _____ Inch 10th _____ Volume _____ Cu. ft. TEST AFTER SHUT _____ of Water in _____ Inch 10th _____ of Merc. in _____ Inch 10th _____ Volume _____ Cu. ft. Hook pressure _____ Rate of Turn _____ Rise of Turbine _____ Oil Flowed _____ bbls. 1st 24 hrs. Oil Produced _____ bbls. 1st 24 hrs.	
Date Commenced _____ 192____ Date Completed _____ 192____ Drilling Commenced _____ 192____ Drilling Completed _____ 192____ Drilling to cost _____ per foot Contractor is _____ Address _____ Driller's Name _____		SHUT IN Kind of Facker _____ Kind of Facker _____ 1st Perf. Set _____ from _____ 2nd Perf. Set _____ from _____			Well abandoned and Plugged _____ 10 _____	

DRILLER'S RECORD CONTINUED

Formation	Top	Bottom	Thickness	Remarks
Sand	1295	1353	58	
Slate	1353	1356	3	
Pink Rock	1356	1368	12	
Slate & Shells	1368	1385	17	
Maxon Sand	1385	1467	82	
Gas	1400	1404		Steel line Gas tested 4/10 water in 1"
Slate & Shells	1467	1480	13	
Lime	1480	1524	44	
Slate Break	1524	1527	3	
Big Lime	1527			not drilled through the Big Lime
6 5/8" casing set		1579		Steel line measure
Gas	1581	1588		24/10 water in 1"
Gas	1620	1635		14/10 " " 2"
Total Depth		1697		Steel line measure

WORK ORDER

DATE June 11, 1965 1521-1671-5089-66 BUDGET NO. 104 WORK ORDER NO. 1670-13
 DATE ISSUED June 17, 1965
 COMPANY United Fuel Gas Company DEPT. Production DIVISION Central
 TITLE Well 3969 - Part Removal ORIGINAL INSTALLATION DATE 1929
 PURPOSE AND NECESSITY To remove tubing and fittings in order to drill the well deeper. This pipe will not be re-used. Reason for Retirement-Code No. 4
 DISTRIBUTION PLANT London TOWNSHIP DISTRICT Rural COUNTY Kanawha DISTRICT West Virginia

RELATED PROJECT WORK ORDER NO. 1521-1671-13 FOR Well 3969 - Drill Deeper
 APPROVED BY R. N. Tullis APPROVED BY W. B. Osbourn

DETAIL OF EXPENDITURES							
MATERIAL TO BE REMOVED —RETIRED	SIZE	ESTIMATE			ACTUAL		VARIATION
		QUANTITY	PRICE	AMOUNT	QUANTITY	AMOUNT	
7# Tubing	Junk 3"	1,704	.250	-	240'	-	-
Anchor Packer	Junk 3" x 6-5/8"	1	35.19	-	1	-	-
Darling Gate Valves	Junk 3"	2	16.68	-	2	-	-
Misc. Fittings	Junk	lot	-	-	Lot	-	-
7# Tubing	Salvage 3"	-	.250	-	1,464'	366.00	366.00
Junk Iron & Steel		-	-	-	1,250#	16.25	16.25
TOTAL MATERIAL <u>Salvage</u>						382.25	382.25
INDICATED RETIREMENT COST						•••••	-
DIRECT LABOR							
CONTRACT							
USE OF AUTOMOBILE AND HAULING				50.	105.00	55.00	-
MISCELLANEOUS SUPPLIES AND EXPENSE							
RIGHTS OF WAY AND COST OF SECURING							
STORES EXPENSE AND FREIGHT							
LABOR OVERHEADS							
INTEREST							
ADMINISTRATIVE AND GENERAL LABOR OVERHEADS							
TOTAL INDICATED RETIREMENT COST				50.	105.00	55.00	-
TOTAL ESTIMATE				50.	(277.25)	(327.25)	-

INDICATE NORTH SKETCH OR LOCATION (CORRECT TO ACTUAL) INVENTORY MAP NO.
COMP. 11 Map Square 60-51

Note: It is necessary to remove this tubing in order to drill the well deeper. Consequently the cost of removal is to be charged to Work Order No. 1521-1671-13, which provides for drilling the well deeper.

[Faint handwritten notes and stamps]

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JAN 19

WV Department of Environmental Protection

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JUN 24 1965

CENTRAL PRODUCTION
DIVISION OFFICE

108-X-104-1670-13

06/11/2021

U-3969

Black Band Coal & Coke Company
United Fuel Gas Company
Loudon District, Kanawha County, W. Va.
Map Square - 60-51
Commenced - 6-13-29
Completed - 7-27-29
Elevation - 1241.35'

CASING:

<u>Size</u>	<u>Point</u>
10"	350'
8 1/4"	1233'
6 5/8"	1579'
3"	1697'

Conductor	0	13
Clay	13	20
Sand	20	60
Coal	60	65
Brown Shale	65	95
Slate	95	125
Sand	125	140
Slate	140	165
Sand	165	190
Coal	190	193
Slate	193	210
Sand	210	230
Slate	230	400
Sand	400	475
Slate	475	550
Gas Sand	550	615
Slate	615	685
Sand	685	725
Slate	725	775
Salt Sand	775	815
Slate	815	835
Salt Sand	835	890
Slate	890	895
Salt Sand	895	1080
Slate	1080	1120
Slate & Shells	1120	1165
Sand	1165	1220
Slate & Shells	1220	1295
Sand	1295	1353
Slate	1353	1356
Pink Rock	1356	1368
Slate & Shells	1368	1385
Maxon Sand	1385	1467
Slate & Shells	1467	1480
Lime	1480	1524
Slate Break	1524	1527
Big Lime	1527	
Total Depth		1697'

Hole full water 130-135'
 Water, hole full 915-920', 960'
 Gas 1400-1404' 4/10 W 1" 24 M
 Gas 1581-1588' 24/10 W 1" 57 M
 Gas 1620-1635' 14/10 W 2" 180 M
 FINAL OPEN FLOW - 180 M
 48 Hr.R.P. 120#

DRIILLED DEEPER

Commenced Drlg. 10-9-65 Completed 10-27-65
4 1/2" casing 5621' Cemented with 100 sacks

Began drilling at	1697'	
Big Lime	1697	1745
Injun	1745	1775
Shale	1775	2190
Berea	2190	2193
Shale	2193	4795
Corniferous Lime	4795	4893
Oriskany	4893	4903
Lime & Dolomite	4903	5567
Newburg	5567	5593
Lime & Dolomite	5593	5623
Total Depth	5623'	

Perforated 4 1/2" casing from 5575-5579' with
14 jets.

Fractured Newburg 10-29-65 with 688 bbls. sand
laden fluid, 30,000# 20-40 sand, 750# J-111,
500# J-84 and 20 gallons F-52.
Final open flow after fracture - 16/10 Merc.
4" 2,477 M

FINAL OPEN FLOW - 2,477 M - Newburg
48 Hr.R.P. 2015#

Shut in 11-22-65 in 4 1/2" casing.

LOGS RUN:
Gamma Ray
Density
Induction - Electrical
Permit No. - Kan-2048

RECEIVED
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JAN 19

WV Department of
Environmental Protection

06/11/2021



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

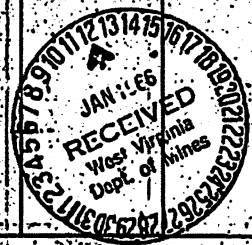
STAFF LOCATION DATE
 UNITED STATES GEOGRAPHIC
 Spudder
 Cable Tools
 Storage
 Oil or Gas well Gas
(RIND)

Quadrangle Charleston **D R I L L D E E P E R**
 Permit No. KAN-2048-D **W E L L R E C O R D**

Company United Fuel Gas Company
 Address P. O. Box 1273, Charleston, W. Va. 25325
 Farm Black Band Coal & Coke Co. #5 Acres 300
 Location (waters) Davis Creek
 Well No. 3969 Elev. 1208.53
 District Loudon County Kanawha
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by Frank A. Hardy, et al
Rupert Route Address Lewisburg, W. Va.
 Drilling commenced Oct. 9, 1965
 Drilling completed Oct. 27, 1965
 Date Shot From _____ To _____
 With _____
 Open Flow 16 /10ths Water in _____ inch
4 /10ths Merc. in _____ inch
 Volume 2,477 M - Newburg _____ F.
 Rock Pressure 2015 lbs. 48 psi
 Oil _____ bbls. in 24 hrs.
 WELL ACIDIZED (DETAILS) _____ FEET _____ INCHES
 _____ FEET _____ INCHES
 WELL FRACTURED (DETAILS) _____ FEET _____ INCHES
 _____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) _____
 ROCK PRESSURE AFTER TREATMENT _____ HOURS
 Fresh Water _____ Feet Salt Water _____ Feet
 Producing Sand _____ Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
DRILL DEEPER -							
Began drilling at			1697'				Perforated 4 1/2" casing from 5575-5579' with 14 jets.
Big Lime			1697'	1745'			
Injun			1745'	1775'			Fractured Newburg 10-29-65 with 688
Shale			1775'	2190'			bbls. sand laden fluid, 30,000#
Berea			2190'	2193'			20-40 sand, 750# J-111, 500# J-84
Shale			2193'	4795'			and 20 gallons F-52.
Corniferous Lime			4795'	4893'			Final open flow after fracture - 16/10
Oriskany			4893'	4903'			Merc. 2,477 M
Lime & Dolomite			4903'	5567'			
Newburg			5567'	5593'			
Lime & Dolomite			5593'	5623'			Shut in 11-22-65 in 4 1/2" casing.
Total Depth			5623'				
					LOGS RUN: Gamma Ray Density Induction - Electrical		



UNITED FUEL GAS COMPANY
(INCORPORATED)

Serial Well No. FL 2969

Lease No. 16715

Map Square 60-51

REPORT OF WELL No. <u>3969</u> Black Band Coal & Coke Co. 12007.9 London Kanawha Kanawha Field, State of W. Va.		CASING AND TUBING Size of Well 10" 356' 356' 1250' None 1596' 1596' 1704'		TEST BEFORE SHOT 14' of Water in 10' of Merc. in Volume 170,000 Cu. ft. TEST AFTER SHOT 10' of Water in 10' of Merc. in Volume Rock pressure 120# Rate of Size of Torpedo Oil Flowed Oil Pumped	
Date Commenced <u>5-27-29</u> Date Completed <u>5-31-29</u> Drilling Commenced <u>6-13-29</u> Drilling Completed <u>7-27-29</u> Drilling to cost Contractor is: <u>United Fuel Gas Co. Drlg. Dept.</u> Address: <u>Charleston W. Va.</u> Driller's Names <u>J.R. Cramer</u> <u>Pearl Mynes</u>		DATE IN <u>7-27-29</u> Size of Packer <u>3x5 5/8x16</u> Kind of Packer <u>Anchor</u> 1st Perf. Set <u>1682</u> to <u>1690</u> 2nd Perf. Set <u>1615</u> to <u>1637</u> Packer set at <u>1565</u>		Well standstill and Plugged	

ELEV. 1210 F.

Formation	Top	Bottom	Thickness	Remarks	
Conductor	0	13	13	<i>Test after tubing 7-29 15 W. 2" 184,000 cu ft.</i>	
Clay	13	20	7		
Sand	20	60	40		
Coal	60	65	5		
Brown Shale	65	95	30		
Slate	95	125	30		
Sand	125	140	15		Water 130-135 Hole full
Slate	140	165	25		
Sand	165	190	25		
Coal	190	193	3		
Slate	193	210	17	<i>10" casing set at 350' on collar</i>	
Sand	210	230	20		
Slate	230	400	170		
Sand	400	475	75		
Slate	475	550	75		
Gas Sand	550	615	65		
Slate	615	685	70		
Sand	685	725	40		
Slate	725	775	50		
Salt Sand	775	815	40		
Slate	815	835	20	<i>APPROVED</i>	
Salt Sand	835	890	55		
Slate	890	895	5		
Salt Sand	895	1080	185		Water 915-9 Hole full at 960
Slate	1080	1120	40		
Slate & Shells	1120	1165	45		
Sand	1165	1220	55		
Slate & Shells	1220	1295	75		8" casing on steel shoe at 1233 Full



Approved: *[Signature]*
 Supt. Civil Engineering Dept.
 (Title)
 UNITED FUEL GAS COMPANY
 June 25, 1955

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas	Depth	Remarks
Shale			1353	1352			
Blue Rock			1356	1355			
Shale & Shells			1366	1365			
Marion Sand			1385	1384			
Gas			1400	1401			
Shale & Shells			1467	1468			
Blue Green			1480	1481			
Big Lams			1521	1522			
6-5/8" Chasing set 1570			1521	1522			
Gas			1581	1582			
Gas			1620	1621			
Shale Dept			1697	1698			
Gas			1712	1713			
Gas			1730	1731			
Gas			1742	1743			
Gas			1750	1751			
Gas			1760	1761			
Gas			1770	1771			
Gas			1780	1781			
Gas			1790	1791			
Gas			1800	1801			
Gas			1810	1811			
Gas			1820	1821			
Gas			1830	1831			
Gas			1840	1841			
Gas			1850	1851			
Gas			1860	1861			
Gas			1870	1871			
Gas			1880	1881			
Gas			1890	1891			
Gas			1900	1901			
Gas			1910	1911			
Gas			1920	1921			
Gas			1930	1931			
Gas			1940	1941			
Gas			1950	1951			
Gas			1960	1961			
Gas			1970	1971			
Gas			1980	1981			
Gas			1990	1991			
Gas			2000	2001			
Gas			2010	2011			
Gas			2020	2021			
Gas			2030	2031			
Gas			2040	2041			
Gas			2050	2051			
Gas			2060	2061			
Gas			2070	2071			
Gas			2080	2081			
Gas			2090	2091			
Gas			2100	2101			
Gas			2110	2111			
Gas			2120	2121			
Gas			2130	2131			
Gas			2140	2141			
Gas			2150	2151			
Gas			2160	2161			
Gas			2170	2171			
Gas			2180	2181			
Gas			2190	2191			
Gas			2200	2201			
Gas			2210	2211			
Gas			2220	2221			
Gas			2230	2231			
Gas			2240	2241			
Gas			2250	2251			
Gas			2260	2261			
Gas			2270	2271			
Gas			2280	2281			
Gas			2290	2291			
Gas			2300	2301			
Gas			2310	2311			
Gas			2320	2321			
Gas			2330	2331			
Gas			2340	2341			
Gas			2350	2351			
Gas			2360	2361			
Gas			2370	2371			
Gas			2380	2381			
Gas			2390	2391			
Gas			2400	2401			
Gas			2410	2411			
Gas			2420	2421			
Gas			2430	2431			
Gas			2440	2441			
Gas			2450	2451			
Gas			2460	2461			
Gas			2470	2471			
Gas			2480	2481			
Gas			2490	2491			
Gas			2500	2501			
Gas			2510	2511			
Gas			2520	2521			
Gas			2530	2531			
Gas			2540	2541			
Gas			2550	2551			
Gas			2560	2561			
Gas			2570	2571			
Gas			2580	2581			
Gas			2590	2591			
Gas			2600	2601			
Gas			2610	2611			
Gas			2620	2621			
Gas			2630	2631			
Gas			2640	2641			
Gas			2650	2651			
Gas			2660	2661			
Gas			2670	2671			
Gas			2680	2681			
Gas			2690	2691			
Gas			2700	2701			
Gas			2710	2711			
Gas			2720	2721			
Gas			2730	2731			
Gas			2740	2741			
Gas			2750	2751			
Gas			2760	2761			
Gas			2770	2771			
Gas			2780	2781			
Gas			2790	2791			
Gas			2800	2801			
Gas			2810	2811			
Gas			2820	2821			
Gas			2830	2831			
Gas			2840	2841			
Gas			2850	2851			
Gas			2860	2861			
Gas			2870	2871			
Gas			2880	2881			
Gas			2890	2891			
Gas			2900	2901			
Gas			2910	2911			
Gas			2920	2921			
Gas			2930	2931			
Gas			2940	2941			
Gas			2950	2951			
Gas			2960	2961			
Gas			2970	2971			
Gas			2980	2981			
Gas			2990	2991			
Gas			3000	3001			



WELL RECORD

ONE-21 EAST GIVE COMBAX

Quadrangle Charleston
 Well No. 3069
 Oil or Gas Well Gas

Company United Fuel Gas Company
 Address P. O. Box 1273 Charleston, W. Va.
 Farm Black Sand Coal & Lignite Co. Acres 301
 Location (waters) Davis Creek
 Well No. 3069 Elev. 1208.53
 District London County Kanawha

The surface of tract is owned in fee by Frank A. Hardy, et al
 Address Rupert Route, Lewisburg, W. Va.

Drilling commenced 6-13-29
 Drilling completed 7-27-29

Date Shot 6 From 2 To 3
 With 6

Open Flow 15 /10ths Water in 2 Inch
 /10ths Merc. in 2 Inch

Volume 184,000 Cu. Ft.
 Rock Pressure 120 lbs.

Oil 0 bbls. 1st 24 hrs.
 WELL ACIDIZED 0

WELL FRACTURED 0

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 0 Feet
 Salt Water 0 Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			
13			
10		356'	
8 1/2	1250' Failed	1596'	
8 3/16		1704'	
Liners Used			

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 60 FEET 60 INCHES
 190 FEET 36 INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth	Remarks
Conductor			0	13			
Clay			13	20			Test after tubing 7-27-29
Sand			20	60			15 W 2" 184,000 Cu. Ft.
Coal			60	65			
Brown shale			65	95			
Slate			95	125			
Sand			125	140			Water 130-135 Hole full
Slate			140	165			
Sand			165	190			
Coal			190	193			
Slate			193	210			
Sand			210	230			
Slate			230	400			10" casing set at 350' on collar
Sand			400	475			
Slate			475	550			
Gas Sand			550	615			
Slate			615	685			
Sand			685	725			
Slate			725	775			
Shale			775	815			
Slate			815	835			
Salt Sand			835	890			
Slate			890	895			
Salt Sand			895	1080			Water 945-920 Hole full at 960
Slate			1080	1120			
Slate & Shells			1120	1165			
Sand			1165	1220			
Slate & Shells			1220	1295			8-1/4 casing on steel shoe at 1233
Sand			1295	1353			Pulled





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Charleston

WELL RECORD

Permit No. Jan-2648

Oil or Gas Well Gas
(KIND)

Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va.
Farm Black Band Coal & Coke Co. #5 acres 300
Location (waters) Davis Creek
Well No. 3969 Elev. 1208.53'
District Loudon County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Frank A. Hardy, etal
Rupert Route Address Lewisburg, W. Va.
Drilling commenced 6-13-29
Drilling completed 7-27-29
Date Shot _____ From _____ To _____
With _____
Open Flow 15 /10ths Water in 2 _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 184,000 _____ Cu. Ft.
Rock Pressure 120 _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Anchor
13			Size of _____
10		356'	3 x 6-5/8 x 16
8 1/2	1250'	Pulled	Depth set _____
6 1/2		1596'	1565'
5 3/16			Perf. top _____
3		1704'	Perf. bottom _____
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

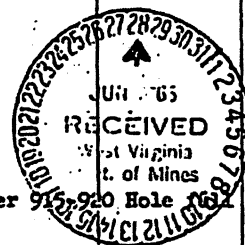
COAL WAS ENCOUNTERED AT 60 FEET 60 INCHES
190 FEET 36 INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Conductor			0	13	Test after Tubing 7-27-29		
Clay			13	20	15 W 2" 184,000 Cu. Ft.		
Sand			20	60			
Coal			60	65			
Brown Shale			65	95			
Slate			95	125			
Sand			125	140	Water 130-135 Hole full		
Slate			140	165			
Sand			165	190			
Coal			190	193			
Slate			193	210			
Sand			210	230			
Slate			230	400	10" Casing set at 350' on Collar		
Sand			400	475			
Slate			475	550			
Gas Sand			550	615			
Slate			615	685			
Sand			685	725			
Slate			725	775			
Sand Salt Sand			775	815			
Slate			815	835			
Salt Sand			835	890			
Slate			890	895			
Salt Sand			895	1080	Water 945-920 Hole 661 at 960		
Slate			1080	1120			
Slate & Shells			1120	1165			
Sand			1165	1220			
Slate & Shells			1220	1295	8-1/4 casing on steel shoe at 1233		
Sand			1295	1353	Pulled		



(over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1353	1356			
Pink Rock			1356	1368			
Slate & Shells			1368	1385			
Maxon Sand			1385	1467			
Gas			1400	1404	Steel line	Gas tested	4 1/10 W in 1"
Slate & Shells			1467	1480			
Lime			1480	1524			
Slate Break			1524	1527			
Big Lime			1527		Not drilled through the		Big Line
6-5/8" Casing set 1579					Steel line measure		
Gas			1581	1588	2 1/10 Water	in 1"	
Gas			1620	1635	1 1/10 Water	in 2"	
Total Depth			1697'		Steel line measure		

Date June 25, 19 65

APPROVED UNITED FUEL GAS COMPANY, Owner

By S. H. Ferrell
(Title)

Supt., Civil Engineering Dept.

06/11/2021



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
- DRILL DEEPER -
WELL RECORD

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston
Permit No. KAN-2048-D

Oil or Gas Well Gas
(XINU)

Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va. 25325
Farm Black Band Coal & Coke Co. #5 Acres 300
Location (waters) Davis Creek
Well No. 3969 Elev. 1208.53'
District Loudon County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Frank A. Hardy, et al
Rupert Route Address Levisburg, W. Va.
Drilling commenced Oct. 9, 1965
Drilling completed Oct. 27, 1965
Date Shot _____ From _____ To _____
With _____

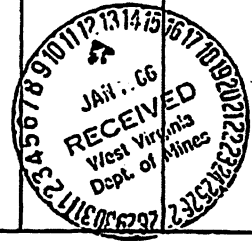
Casing and T-logs	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			
8 1/4			Depth set
6 3/4			
5 3/16			
4 1/4			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow _____ /10ths Water in _____ Inch
16 /10ths Merc. in 4 Inch
Volume 2,477 M - Newburg Cu. Ft.
Rock Pressure 2015 lbs 48 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS _____
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
DRILL DEEPER -							
Began drilling at			1697'				Perforated 4 1/2" casing from 5575-5579' with 14 jets.
Big Lime			1697	1745			
Injun			1745	1775			Fractured Newburg 10-29-65 with 688 bbls. sand laden fluid, 30,000# 20-40 sand, 750# J-111, 500# J-84 and 20 gallons F-52.
Shale			1775	2190			Final open flow after fracture - 16/10 Merc. 4" 2,477 M
Beres			2190	2193			
Shale			2193	4795			Shut in 11-22-65 in 4 1/2" casing.
Corniferous Lime			4795	4893			
Oriskany			4893	4903			LOGS RUN: Gamma Ray Density Induction - Electrical
Lime & Dolomite			4903	5567			
Newburg			5567	5593			
Lime & Dolomite			5593	5623			
Total Depth			5623'				





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES
Charleston, W. Va.

DRILL DEEPER

COAL OPERATOR OR COAL OWNER: United Fuel Gas Company NAME OF WELL OPERATOR

ADDRESS: Charleston, W. Va. COMPLETE ADDRESS

DATE: June 25 1965

PROPOSED LOCATION

COAL OPERATOR OR COAL OWNER: Frank A. Hardy, et al ADDRESS

OWNERS OF SURFACED ESTATE: Rupert Route ADDRESS

LEWISBURG, W. VA.

PROPOSED LOCATION: London District

Kenawha County

WELL NO. 3969 211 1208 5 3

BLACK HAND COAL & COKE CO. #5 Farm

1207 2620

DATE: April 1, 1919 made by Black Hand Coal & Coke Company to

United Fuel Gas Co. and recorded on the 10th day

of April 1919 in the office of the County Clerk for said County in

Book 48 page 48

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well

to be drilled for oil and gas by the undersigned well operator, on the farm and in the Magisterial District

and County above named, determined by survey and courses and distances from two permanent points, or

land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds

of coal beneath said farm or tract of land in which said well is located, or within 500 feet of the bound-

aries of the same, who have mapped their workings and filed their maps as required by law, excepting the

coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may

desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if

the drilling of a well at said proposed location will cause a dangerous condition in or about any respective

coal mines, must be received by, or filed with the Department of Mines within ten days from the receipt of

a copy of this notice and accompanying plat by said Department. Said coal operators are further notified

that forms for use in making such objections will be furnished to them by the Department of Mines promptly

on request and that all such objections must set forth as definitely as is reasonably possible the ground or

grounds on which such objections are based and indicate the direction and distance the proposed location should

be moved to overcome same.

(The next paragraph is to be completed only in Department copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above

named coal operators or coal owners at their above shown respective address day before,

or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston,

West Virginia.

Very truly yours,

UNITED FUEL GAS COMPANY

WELL OPERATOR

P. O. Box 1273

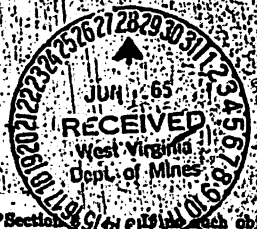
STREET

Charleston, W. Va.

CITY OR TOWN

West Virginia 25325

STATE



Address of Well Operator

*Section 3 of said Code provides that such objections be filed or so found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, the said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

KAN-2046 PERMIT NUMBER

RECEIVED
Office of Oil and Gas

JUN 1 2021

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: 6-1-21
2) Operator's Well Number
3969
3) API Well No.: 47 - 039 - 02048

**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>Kanawha State Forest</u>	Name _____
Address <u>7500 Kanawha State Forest Dr.</u>	Address _____
<u>Charleston WV 25314</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

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 Pillar Energy, LLC
 By: Jeff Isner
 Its: CEO
 Address 1244 Martins Branch Rd.
Charleston WV 25312
 Telephone 681-205-8599

Subscribed and sworn before me this 1st day of June, 2021
[Signature]
 My Commission Expires 11/20/25



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 depprivacyofficer@wv.gov.

SURFACE OWNER WAIVER

Operator's Well
Number

Black Band Coal 3969

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
ETC.

FOR EXECUTION BY A CORPORATION,


Signature

Date 1/18/2021

Name 

By _____
Its _____
RECEIVED
Office of Oil and Gas Date _____

CHRISTOPHER BARTLEY
PARK SUPERINTENDENT
KANAWHA STATE FOREST

Signature JAN 19 Date _____

4703902048P

WW-9
(5/16)

API Number 47 - 039 - 02048
Operator's Well No. Black Bend Coal 3969

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

Operator Name Pillar Energy, LLC OP Code _____

Watershed (HUC 10) Davis Creek - Upper Kanawha River Quadrangle Charleston West C6

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 TU 1-11-21 AND WELL EFFLUENT WILL BE CONTAINED IN TANKS AND DISPOSED OFF-SITE.

If so, please describe anticipated pit waste: _____

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

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: _____

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

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

Additives to be used in drilling medium? _____

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

-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 [Signature] RECEIVED Office of Oil and Gas

Company Official (Typed Name) Jeff Isner JAN 19

Company Official Title CEO

WV Department of Environmental Protection

Subscribed and sworn before me this 13th day of January, 20 21

[Signature]

My commission expires 11/20/25



06/11/2021

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 2 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

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: _____

Comments: _____

*Possible H₂S -- Beware - Will hatch
Cement*

Title: _____

Date: 1-11-21

Field Reviewed? Yes No

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WW-9- GPP
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Page 1 of 2
API Number 47 - 039 - 02048
Operator's Well No. Black Band Coal 3969

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

Operator Name: Pillar Energy, LLC
Watershed (HUC 10): Davis Creek - Upper Kanawha River Quad: Charleston West C6
Farm Name: _____

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

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

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

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

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

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Environmental Protection
06/11/2021

N/A

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

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.

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

Signature: 

Date: 1-13-21

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Black Band Coal 3969

47-039-02048



Black Band 3969 •

Black Bear Trail
Kanawha State Forest Rd

BLACK BAND 1965

Middle Ridge Rd

Middle Ridge Trail



2000 ft

4703902048 P

Jan. 14th 2021

Received

WV Department of
Environmental Protection

Google Earth

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WW-7
8-30-06



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

API: 47-039-02048 WELL NO.: Black Band Coal 3969

FARM NAME: _____

RESPONSIBLE PARTY NAME: Pillar Energy, LLC

COUNTY: Kanawha DISTRICT: Loudon

QUADRANGLE: Charleston West C6

SURFACE OWNER: Kanawha State Forest

ROYALTY OWNER: Hardy Oil & Gas LLC, PFR WV Holdings LLC

UTM GPS NORTHING: 4232304.79 (38.237004, -81.639240)

UTM GPS EASTING: 444057.27 GPS ELEVATION: 1239'

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]
Signature

[Signature] CEO
Title

1-13-21
Date

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