



---

west virginia department of environmental protection

---

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 28, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

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

Re: Permit approval for 4066  
47-039-00042-00-00

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.

A blue ink signature of James A. Martin.

James A. Martin  
Chief

Operator's Well Number: 4066  
Farm Name: HARDY, FRANK A., ETAL  
U.S. WELL NUMBER: 47-039-00042-00-00  
Vertical Plugging  
Date Issued: 6/28/2021

Promoting a healthy environment.

07/02/2021

## 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.

1) Date May 13, 2021  
2) Operator's  
Well No. Hardy, F. 4066  
3) API Well No. 47-036 - 00042

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 1144' Watershed Davis Creek - Upper Kanawah River  
District Louden County Kanawha Quadrangle Charleston WV C6

6) Well Operator Pillar Energy LLC 7) Designated Agent \_\_\_\_\_  
Address 1244 Martins Branch Rd. Address \_\_\_\_\_  
Charleston, WV 25312

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Terry Urban Name To be determined  
Address PO Box 1207 Address \_\_\_\_\_  
Clendenin, WV 25045

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

See attached procedure.

WELL ORIGINALLY DRILLED TO 1627' ON FEB 15, 1930.  
PLUGGED MAY 12, 1959

REDRILLED TO 5488' FROM AUGUST 20, 1965 TO SEPT 30, 1965.

SEE ATTACHED RECORDS

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 5-27-21

Frank A. Hardy 4066  
 API# 47-039-00042  
 Elevation: 1144' GL  
 Latitude/Longitude: 38.228778, -81.647643

Frank A. Hardy 4066 Well Data (Drilled 02/1930, P&A'd 1959, Redrilled September 1965)

Casing: 13-3/8" 48 ppf Surface csg @ 275' GL, Cmntd w/ ~~275 sx~~ 305K 922  
 8-5/8" 24 ppf Intermediate Csg @ 1724' GL, Cmntd w/ 176 sx  
 4-1/2" 11.6 ppf Production Csg @ 5476' GL, Cmntd w/ 250 sx  
 TD: 5488'  
 Perforations: 5439' – 5445' (14 holes)  
 Coal: 55' – 60', & 190' – 195'  
 Fresh Water Shows: N/A  
 Salt Water Shows: N/A  
 Gas/Oil Shows: 1245' – 55', 1514' - 86', & 5439' - 45'

Frank A. Hardy 4066 Procedure:

1. Notify State Inspector, Terry Urban – (304)-549-5915 - [Terry.W.Urban@wv.gov](mailto: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 H<sub>2</sub>S, load hole w/ FW to kill well if necessary.
5. RIH w/ work string 5450'
6. Pump 5 BBL 6% gel.
7. Set 100' latex cement plug F/ 5450' T/ 5350'. (Perfs @ 5439' - 5445').
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.
  - b. 100' plug F/ 1775' – T/ 1675'. (8-5/8" csg shoe)
11. Perform Freepoint on 8-5/8" csg and note where free.
12. 8-5/8" casing will be 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 F/ 1575' – T/ 1475'. (Perfs required @ 1575' if 8-5/8" csg is present)
  - b. 200' plug F/ 1275' – T/ 1075'. (Perfs required @ 1275' & 1150' if 8-5/8" csg is present)
  - c. 100' plug F/ 325' – T/ 225' (13-3/8 csg shoe, Perfs required @ 325' if 8-5/8" is still present)
13. 13-3/8" casing will be ripped and removed from well bore where free. The following cement plugs set will be set, w/ 6% gel spotted between each plug.
  - a. 200' plug F/ 200' – T/ surface'. Perforations are required at 200' & 75' if 13-3/8 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.

  
 5-27-21

07/02/2021



WELLBORE SCHEMATIC

Well Information:

Well Name:	Hardy, F. 4066	Company / Partnership:	Pillar Energy LLC
County / State:	Kanawha/WV	API Number:	47-039-00042
District / Township:	Louden	AFE Number:	
Target:	Newburg	Cost Center:	
Lat:	38.228778	Pool Code:	
Long:	-81.647643	DTD / LTD:	5488

ORIGINALLY DRILLED TO 1627'  
 FEB 15, 1930 PROBLEM MAY 12, 1959

Surveys	Hole Size	Formations	Depths (KB)	SPUD DATE:	TD DATE:	Casings	Cement	Shows
				10/29/1941	11/21/1941			
		Coal @ 55-60' Coal @ 190-95'		Elevation: 1144'				13-3/8" 48 ppf @ 275', cmntd w/ 275 sx 30 sx
		Gas/Oil show @ 1245-55' Gas/Oil show @ 1514-86'						8-5/8" 24 ppf @ 1724', cmntd w/ 176 sx
		Newburg @ 5431' Gas/Oil show @ 5439-45'						4-1/2 11.6 ppf @ 5476', cmntd w/ 250 sx
								TD @ 5488'

Completion Information

Top Perforation (ft):	5,439	Frac Type/Fluid:	Big Lime	Completion Date:	12/4/1941
Bottom Perforation (ft):	5,445	Foam Quality:		Breakdown:	psi
No. of Shots:	14	BD Acid Volume:	gal.	Pre-ISIP:	psi
Charge (gram):		Treatment Volume:	gal.	MTP:	psi
Perf Diameter:		Sand mesh size:	20/40 mesh	ISIP:	psi
Penetration:		Sand Volume:	300 sacks	5-min SIP	psi
Phasing:		Ave. Treatment Rate:	bpm	10-min SIP	psi

Remarks:

47-039-00042A

Form OG-10



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

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Peytona  
Permit No. KAN-42

Oil or Gas Well (KIND)

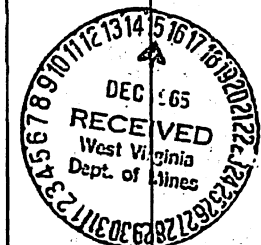
Company United Fuel Gas Company  
Address P. O. Box 1273 Charleston, W. Va. 25325  
Farm Frank A. Hardy, et al Acres 198  
Location (waters) Davis Creek  
Well No. 4066 Elev. 1143.70  
District Loudon County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Frank A. Hardy, et al  
Rupert Route Address Lewisburg, W. Va.  
Drilling commenced Aug. 20, 1965  
Drilling completed Sept. 30, 1965  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 1,299,000 Newburg Cu. Ft.  
Rock Pressure 1800 lb. 48 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	275' Cemented	30 sacks	
10			Size of
8 5/8	1724' Cemented with	176 sacks	
6 3/4			Depth set
5 3/16			
4 1/2	5476' Cemented	250 sacks	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) \_\_\_\_\_  
Name of Service Co. \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 55 FEET 60 INCHES  
190 FEET 60 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
Surface			0	20			
Sand			20	55			Perforated from 5439-5445' with 14 glass jets.
Coal			55	60			
Slate			60	70			
Sand			70	80			Fractured Newburg 10-5-65 with 750# J-111, 500# J-84, 20 gallons F-52, 30,000# 20-40 sand and 689 bbls. 689 water
Slate			80	190			
Coal			190	195			
Slate			195	290			Final open flow after fractured 60/10 W 4 1/2" 1,299 M.
Sand			290	320			
Slate			320	405			
Sand			405	448			
Slate			448	480			Shut in 10-29-65 in 4 1/2" casing.
Sand			480	610			
Slate			610	660			
Sand			660	695			
Slate			695	710			LOGS RUN:
Salt Sand			710	750			Gamma Ray
Slate			750	754			Gamma Gamma
Salt Sand			754	925			Induction
Slate			925	990			
Salt Sand			990	1120			
Slate & Shells			1120	1165			
Sand			1165	1205			
Slate & Shells			1205	1235			
Maxon Sand			1235	1325			
Slate & Shells			1325	1340			
Lime			1340	1355			
Slate			1355	1373			
Little Lime			1373	1410			



(over)

07/02/2021

Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pencil Cave			1410	1412			
Black Lime			1412	1445			
Pencil Cave			1445	1447			
Big Lime			1447	1677			
Slate			1677	1680			
Injun Sand			1680	1700			
Slate & Shells			1700	2070			
Coffee Shale			2070	2080			
Berea Sand			2080	2085			
Brown Shale			2085	4671			
Corniferous Lime			4671	4767			
Oriskany			4767	4775			
Dolomite & Lime			4775	5431			
Newburg			5431	5455			
Dolomite & Lime			5455	5488			
Total Depth			5488				

Date December 13, 19 65

APPROVED UNITED FUEL GAS COMPANY, Owner

By \_\_\_\_\_ (Title)

Supt., Civil Engineering Dept.

07/02/2021

47-039-00042P

UNITED FUEL GAS COMPANY  
COMPANY

SERIAL WELL NO. 4066

LEASE NO. 16715

M. SQUARE 60-51

RECORD OF WELL NO. <u>4066</u> on the	CASING AND TUBING				TEST BEFORE SHOT
Frank A. Hardy, et al farm of 198 Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in ..... in
in London District	<u>13-3/8"</u>	<u>48#</u>	<u>275'</u>	<u>275'</u>	/10 of Merc. in ..... in
Kanawha County	<u>10-3/4"</u>	<u>32#</u>	<u>89'</u>	<u>89'</u>	Volume ..... Cu.
State of West Virginia	<u>8-5/8"</u>	<u>24#</u>	<u>1738'</u>	<u>1738'</u>	TEST AFTER SHOT: Frag.
Field: Central Division	<u>4-1/2"</u>	<u>11.6#</u>	<u>5534'</u>	<u>5534'</u>	60 /10 of Water in ..... in
Rig Commenced By Contractor. 19					/10 of Merc. in ..... in
Rig Completed By Contractor. 19					Volume <u>1,299 MCF</u> Cu.
Drilling Commenced August 20, 1965					When Shut In Hours After Sh
Drilling Completed September 30, 1965					Rock Pressure <u>48 Hr. 1800#</u>
Drilling to cost per foot					Date <del>of</del> Frac. <u>10-5-65</u>
Contractor is: Ray Brothers Corp.					<u>50# J-111, 500# J-34, 6'</u>
Address: Charleston, W. Va.					Size of Torpedo <u>Ebl. Fluid,</u>
					<u>30,000# 20/40 Sand</u>
					Oil Flowed ..... bbls. 1st 24 hr
					Oil Pumped ..... bbls. 1st 24 hr
Driller's Name Jodie Parsons	<u>4 1/2"</u> in Casing				Tubing or Casing
T. J. Muncy					Size of Packer <u>4-1/2"</u>
George Ackman					Kind of Packer <u>Guide Shoe</u>
Drilling Permit No. KAN-42-Red					Well abandoned and
Elevation: <u>1143.70'</u>					Plugged. 19
					1st Perf. Set <u>5439'</u> from <u>5445'</u>
					2nd Perf. Set ..... from

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Surface	0	20	20	
Sand	20	55	35	
Coal	55	60	5	
Slate	60	70	10	
Sand	70	80	10	
Slate	80	190	110	
Coal	190	195	5	
Slate	195	290	95	
Sand	290	320	30	
Slate	320	405	85	
Sand	405	448	43	
Slate	448	480	32	
Sand	480	610	130	
Slate	610	660	50	
Sand	660	695	35	
Slate	695	710	15	
Salt Sand	710	750	40	

APPROVED

*R. S. Sweet*  
DIVISION SUPERINTENDENT

07/02/2021



47-039-00042P

SERIAL WELL NO. 4066

LEASE NO. 16715

MAP SQUARE 60-51

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Slate	750	754	4	
Salt Sand	754	925	171	
Slate	925	990	65	
Salt Sand	990	1120	130	
Slate & Shells	1120	1165	45	
Sand	1165	1205	40	
Slate & Shells	1205	1235	30	
Maxon Sand	1235	1325	90	
Slate & Shells	1325	1340	15	
Lime	1340	1355	15	
Slate	1355	1373	18	
Little Lime	1373	1410	37	
Pencil Cave	1410	1412	2	
Black Lime	1412	1445	33	
Pencil Cave	1445	1447	2	
Big Lime	1447	1677	230	
Slate	1677	1680	3	
Injun Sand	1680	1700	20	
Slate & Shells	1700	2070	370	
Coffee Shale	2070	2080	10	
Perea Sand	2080	2085	5	
Brown Shale	2085	4671	2586	
Cornif. Lime	4671	4767	96	
Oriskany	4767	4775	8	
Dolomite & Lime	4775	5431	656	
Newburg	5431	5455	24	
Dolomite & Lime	5455	5488	33	
Total Depth	5488			

07/02/2021

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

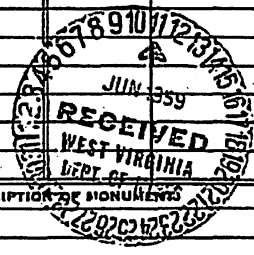
COAL OPERATOR OR OWNER	<u>United Fuel Gas Company</u>
ADDRESS	<u>P.O.Box 1273, Charleston, W. Va.</u>
COAL OPERATOR OR OWNER	<u>May 29, 19 59</u>
ADDRESS	<u>Loudon District</u>
LEASE OR PROPERTY OWNER	<u>Kanawha County</u>
ADDRESS	<u>Well No. 4066</u>
	<u>Black Band Coal Company Farm</u>
STATE INSPECTOR SUPERVISING PLUGGING	<u>G. H. Samples, Charleston, W. Va.</u>

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of LINCOLN } SS:

FRANK WOODALL and RALPH WOODALL  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by UNITED FUEL GAS COMPANY well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 10th day of April, 19 59, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION		SIZE & KIND		
	<u>Pulled 3 1/2" tubing 1610' mud and clay 1610-1300'. Mud and clay 1492 - 1427'.</u>	<u>502' Cement</u>	<u>1502'-1492'.</u>	<u>Lifted</u>
	<u>stone 1417 - 1412'.</u>	<u>320'.</u>	<u>1427' to 1417'.</u>	<u>Crushed</u>
	<u>Bridged hole at 1150' Two bags of cement.</u>	<u>Mud and clay</u>	<u>1150' to 690'</u>	<u>balance of 7" casing</u>
	<u>Cement 690' to 630'.</u>	<u>Crushed Stone 680 to 675'.</u>	<u>Bridged hole at 300'.</u>	<u>Two</u>
	<u>bags cement. Mud and Clay 300' to 272'.</u>	<u>Pulled 10-3/4" casing</u>	<u>252'.</u>	<u>Mud</u>
	<u>and clay 272 to 225'.</u>	<u>Neat cement 225' to 170'</u>	<u>Mud and Clay 170 to 90'.</u>	
	<u>Neat cement 90' to 35'.</u>	<u>Mud and Clay 35' to 3'</u>	<u>Cement 3' to surface.</u>	
	<u>Erected monument 30" above surface</u>			
	<u>Inscription U.F.G.Co. Well # 4066</u>			
	<u>Abandoned May 8, 1959.</u>			
COAL SEAMS				
(NAME)				
(NAME)				
(NAME)				
(NAME)				



and that the work of plugging and filling said well was completed on the 27th day of May, 19 59.

And further deponents saith not.

Frank Woodall  
Ralph Woodall

Sworn to and subscribed before me this 27th day of May, 19 59

My commission expires:  
June 7, 1967

W. J. Haulman  
Notary Public.  
Permit No. KAN - 42-P

**PROPOSED MANNER OF PLUGGING AND FILLING WELL**

(REQUIRED BY RULES AND REGULATIONS)

**WEST VIRGINIA DEPARTMENT OF MINES**

**OIL AND GAS DIVISION**

**WORK ORDER**

Well to be plugged and filled as follows:

Pull 3-1/2" Tubing	1610'		
Mud & Clay	1610'	- 1502'	
Cement	1502'	- 1492'	
lift 7" Casing to	1300'		
Mud & Clay	1492'	- 1427'	- 20' above Big Lime
Cement	1427'	- 1417'	
Crushed Stone	1417'	- 1412'	
Mud & Clay	1412'	- 1320'	
Full balance of 7" Casing			
Bridge Hole at	1150'		- 30' below Salt Sand
Put 2 sacks cement on top of bridge			
Mud & Clay	1150'	- 690'	- 20' above Salt Sand
Cement	690'	- 680'	
Crushed Stone	680'	- 675'	
Bridge Hole at	300'		
Put 2 sacks cement on top of bridge			
Mud & Clay	300'	- 272'	
Pull 10-3/4" Casing	252'		
Mud & Clay	272'	- 225'	30' below Coal Seam
Heat Cement	225'	- 170'	20' above Coal Seam
Mud & Clay	170'	- 90'	30' below Coal Seam
Heat Cement	90'	- 35'	20" above Coal Seam
Mud & Clay	35'	- 3'	
Cement	3'	- Surface	

Erect monument 30" above the surface with inscription "United Fuel Gas Company - Well No. 4066 - Abandoned"

To the Department of Mines  
Coal Owner or Operator,  
Lease or Property Owner.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date inspector is notified after permit is issued.

Very truly yours,

**UNITED FUEL GAS COMPANY**

Well Operator

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interposed by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this

27TH day of OCTOBER, 1958

**CRAWFORD L. WILSON, DIRECTOR**  
DEPARTMENT OF MINES  
Oil and Gas Division

By: *M. E. Griffith*  
Assistant Director - OIL AND GAS DIVISION

NOTE: This "work-order" shall be filed in triplicate, one copy for the use of the Department of Mines; one to be approved or corrected and returned to the well operator as his authority for plugging said well; and one for the well inspector.















47-039-00042P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. Ken 42

Well No. 4066

COMPANY United Fuel Gas Co. ADDRESS Charleston, W. Va.

FARM Black Band Coal Co. DISTRICT Loudon COUNTY Kanawha

Filling Material Used clay, cement and stone

Liner			Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED							CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION				RECOVERED	SIZE	LOST

Drillers' Names Frank Woodall Ralph Woodall

Remarks:  
finished cementing from 195 to 170  
sealing off coal seam  
have one more to cement.



5-8-59 I hereby certify I visited the above well on this date.  
DATE

G. H. Samples  
DISTRICT WELL INSPECTOR

47-039-00042P

OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Peytona

Permit No. KAN-42

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company United Fuel Gas Co.  
Address P.O. Box 1273; Charleston 25, W. Va.  
Farm Black Band Coal & Coke Co. Acres 2,700  
Location (waters) Davis Creek  
Well No. 4066 Elev. 1128.0  
District Loudon County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Frank A. Hardy, et al  
Box 2468 Address Charleston 29, W. Va  
Drilling commenced Jan. 3, 1930  
Drilling completed Feb. 15, 1930  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 5 /10ths Water in \_\_\_\_\_ Inch  
8 /10ths Merc. in 2 Inch  
Volume 497,280 Cu. Ft.  
Rock Pressure 148 lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Let. in Well	Packers
Size			Kind of Packer
10			Anchor
13			Size of <u>3x6-5/8x16</u>
10		<u>252</u>	Depth set <u>1476</u>
8 1/4		<u>1157</u> Pelled	
8 3/4		<u>1472</u>	
5 3/16			
3		<u>1627</u>	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

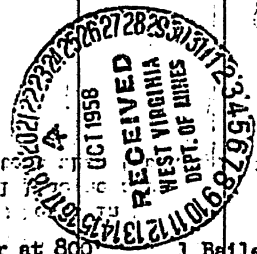
COAL WAS ENCOUNTERED AT 55 FEET 48 INCHES  
190 FEET 60 INCHES FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 73 Feet Salt Water 800 Feet 1020 1245

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	20	Wood Conductor 16'		
Sand			20	55			
Coal			55	60			
Slate			60	70			
Sand			70	80	Water at 73/		3 bailers
Slate			80	190			
Coal			190	195			
Slate			195	290			
10" Casing set at				250	On casing protector		
Sand			290	320			
Slate			320	405			
Sand			405	448			
Slate			448	480			
Sand			480	610			
Slate			610	660			
Sand			660	695			
Slate			695	710			
Salt Sand 1st			710	750			
Slate			750	754			
Salt Sand 2nd			754	925	Water at 800		1 Bailer
Slate			925	990			
Salt Sand 3rd			990	1120	Water at 1020		Hole full
Slate & Shells			1120	1165			
8-1/4" Casing set at			1148		on Steel shoe and		Pulled out.
Sand			1165	1205			
Slate & Shells			1205	1235			
Maxon Sand			1235	1325			
Gds			1245	1255			
Slate & Shells			1325	1340	Show no test water at 1245		1 bailer



(over)

07/02/2021

47-039-00042P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Line			1340	1355			
Slate			1355	1373			
Little Line			1373	1410			
Pencil Cave			1410	1412			
Black Line			1412	1445			
Pencil Cave			1445	1447			
Big Line			1447				
6-5/8" Casing set at				1455	On Bottom Hole Packer		Steel line Meas.
Gas			1514	1518	14/10 Water in 2"		
Gas			1567	1571	22/10 " 2"		
Gas			1571	1586	10/10 Merc. in 2"		
Total Depth				1627	Steel line measure.		Gas test when tubed 8/10 Mercury 2"

Date October 17, 19 58

APPROVED UNITED FUEL GAS CO. Owner

By S. R. Hull  
 (Title)  
 Supt., Civil Engineering Dept.

07/02/2021

WW-4A  
Revised 6-07

1) Date: 05/13/2021  
2) Operator's Well Number  
Hardy, F. 4066  
3) API Well No.: 47 - 039 - 00042

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

**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: President & CEO  
 Address 1244 Martins Branch Rd.  
 Charleston, WV 25312  
 Telephone 681-205-8599



Subscribed and sworn before me this 14 day of May 2024  
 My Commission Expires June 9, 2024

**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](mailto:depprivacyofficer@wv.gov).

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Hardy, F. 4066

**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 57<sup>th</sup> 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 5/21/2021 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

**CHRISTOPHER BARTLEY**  
**KANAWHA STATE FOREST**  
**SUPERINTENDENT**

\_\_\_\_\_  
Signature Date

**07/02/2021**

WW-9  
(5/16)

API Number 47 - 039 - 00042  
Operator's Well No. \_\_\_\_\_

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) [redacted] Davis Creek - Upper Kanawha River Quadrangle [redacted] Charleston West - 66

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: \_\_\_\_\_

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 No pit to be built, Any well effluent will be contained in tanks and properly disposed offsite)

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. At discretion of contractor.

-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.

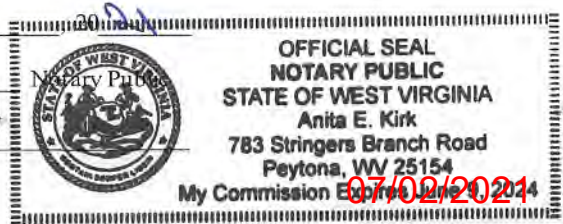
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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]  
Company Official (Typed Name) Jeff Isner  
Company Official Title CEO

Subscribed and sworn before me this 14 day of May

[Signature]  
My commission expires June 9, 2024



Operator's Well No. \_\_\_\_\_

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

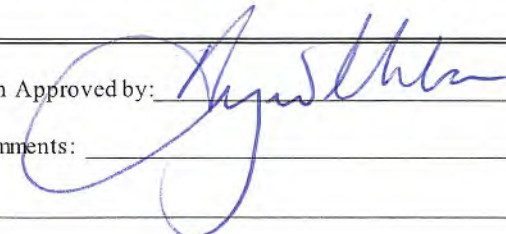
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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: \_\_\_\_\_

Title: \_\_\_\_\_

 Inspector Chick Gas

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

5-27-21

Field Reviewed?      (  ) Yes      (  ) No



N/A

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: Marion W. Burgess

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

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

[Empty response box for question 4]

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

WW-9- GPP  
Rev. 5/16

N/A

Page 2 of 2  
API Number 47 - 039 - 00042  
Operator's Well No. \_\_\_\_\_

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.

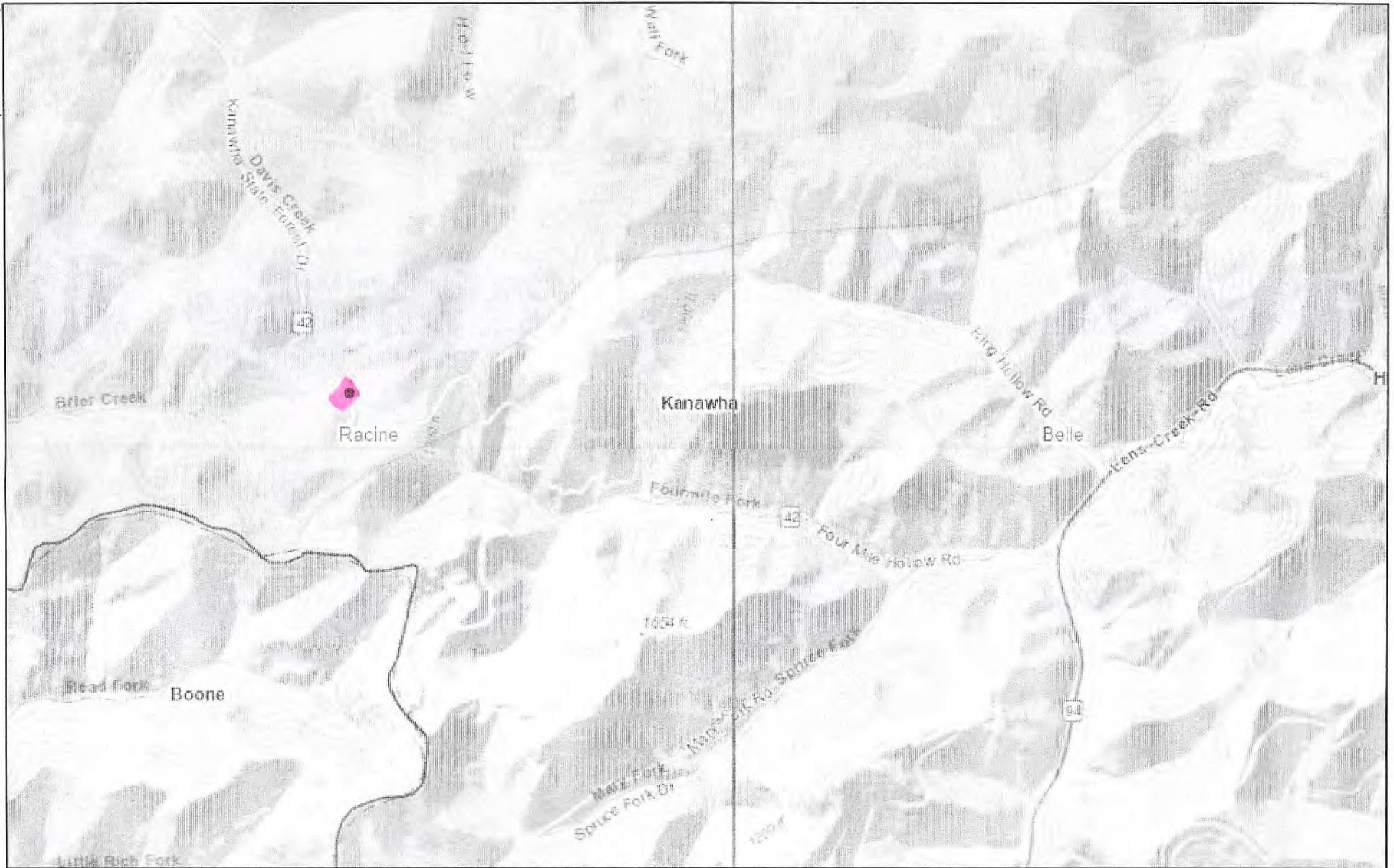
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: \_\_\_\_\_




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

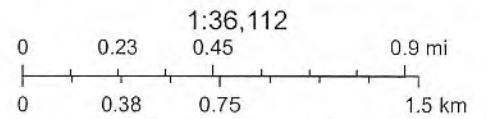
4703900042P

# WVGES - Topo Map Index



5/18/2021, 3:12:54 PM

- Labels (7.5' Quadrangles)  State Boundary
-  7.5' Quadrangles
-  Counties
- County Labels



VITA, West Virginia GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/ NASA, EPA, USDA, West Virginia Geological and Economic Survey

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-039-00042 WELL NO.: Hardy, F. 4066

FARM NAME: \_\_\_\_\_

RESPONSIBLE PARTY NAME: Pillar Energy LLC

COUNTY: Kanawha DISTRICT: Louden

QUADRANGLE: Charleston West C6

SURFACE OWNER: Kanawha State Forest

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

UTM GPS NORTHING: 4231397.2

UTM GPS EASTING: 443315.5 GPS ELEVATION: 1144

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

CEO

Title

5/13/2021

Date