



Date: May 17, 19 82

Operator's Well No. KAS 2

API Well No. 47 039 3873  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil        / Gas X /  
(If "Gas", Production        / Underground storage        / Deep        / Shallow        /)

LOCATION: Elevation: 823.86 Watershed: Blue Creek  
District: Elk County: Kanawha Quadrangle: Quick

WELL OPERATOR Blue Creek Gas Company DESIGNATED AGENT Steven Rubin  
Address P.O. Box 6357 Address P.O. Box 6357  
Charleston, WV 25302 Charleston, WV 25302

OIL & GAS ROYALTY OWNER Union Carbide  
Address P.O. Box 8004  
South Charleston, WV 25303

COAL OPERATOR Union Carbide  
Address P.O. Box 8004  
South Charleston, WV 25303

Acreage 2389

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Union Carbide  
Address P.O. Box 8004  
South Charleston, WV 25303

Name         
Address RECEIVED

Acreage       

Name MAY 20 1982

FIELD SALE (IF MADE) TO:  
Address       

Address OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Martin Nichols  
Address Clendenin, WV

COAL LESSEE WITH DECLARATION ON RECORD:  
Name         
Address       

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed        / lease X  
other contract        / dated July 3, 19 44, to the undersigned well operator from United Fuel Gas Co.

(If said deed, lease, or other contract has been recorded:)  
Recorded on May 29, 19 45, in the office of the Clerk of the County Commission of Kanawha County, West  
Va., in Charleston Book 103 at page 78. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper        / Redrill        / Fracture or stimulate X /  
Plug off old formation        / Perforate new formation X /  
Other physical change in well (specify)         
—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to  
make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the  
Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to  
the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to  
the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY  
TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

02/16/2024

Blue Creek Gas Company  
Well Operator  
By Steven M. Rubin  
Its Director of Operations

BLANKET BOND



PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) N/A  
Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Shale

Estimated depth of completed well, 4145 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 200' feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes X / No \_\_\_\_\_ /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	9 5/8			X		300	300	Cement to Surface	Kinds
Fresh Water									
Coal									Sizes
Intermediate	7"	20	→	X		1560	1560	40 sks. <del>40 sks.</del>	
Production	4 1/2"	10.5	→	X		4145	4145	250 sks. or as Reg.	Depths
Tubing								by Rule	15.01
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

**THIS PERMIT MUST BE POSTED AT THE WELL SITE.**  
**ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,**  
**ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY**  
**APPROVED FOR** drilling **. THIS PERMIT SHALL EXPIRE**  
**IF OPERATIONS HAVE NOT COMMENCED BY** 2-9-83 **;**  
**BY** [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location 02/16/2024 has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_



Date May 4 1982  
Well No. KAS #2  
API No. 47 - 039 - 3873  
State County Permit

MAY 5 1982

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name Blue Creek Gas Designated Agent Steven M. RUBIN  
Address 1700 Pennsylvania Ave Address P.O. Box 6357  
Telephone 342-0141 Telephone 342-0141  
Landowner UNION CARBIDE Soil Cons. District Capitol SCD

Revegetation to be carried out by Blue Creek Gas Co. (Agent)

This plan has been reviewed by CAPITOL SCD. All corrections and additions become a part of this plan. R. G. Wood  
(SCD AGENT)

Date: May 19, 1982

Address: 1422 Federal Bldg., 500 Quarrier St.  
Street  
Chas., WV25301 PH: 343-6181, Ext. 232  
City

Access Road	Location
Structure <u>Cross Drgiv</u> (A)	Structure <u>DIVERSION DITCH</u> (1)
Spacing <u>per sketch</u>	Material <u>EARTHEN</u>
Page Ref. Manual <u>2-1 2.0</u>	Page Ref. Manual <u>2-12 5.0</u>
Structure _____ (B)	Structure <u>RIP RAP</u> (2)
Spacing _____	Material <u>ROCK</u>
Page Ref. Manual _____	Page Ref. Manual <u>N/A 2-14</u>
Structure _____ (C)	Structure <u>Drainage Ditch</u> (3)
Spacing _____	Material <u>EARTHEN</u>
Page Ref. Manual _____	Page Ref. Manual <u>2-12</u>

RECEIVED

All structures should be inspected regularly and repaired if necessary.

MAY 20 1982

Revegetation

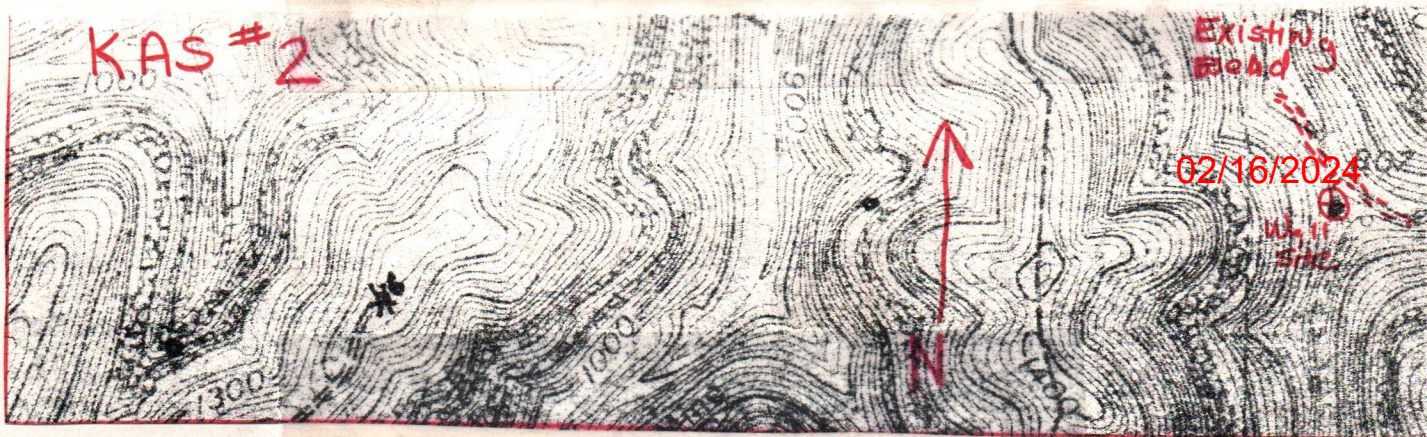
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Treatment Area I		Treatment Area II	
Lime <u>3</u> Tons/acre	or correct to pH <u>6.5</u>	Lime <u>3</u> Tons/Acre	or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre	(10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre	(10-20-20 or equivalent)
Mulch <u>Hay (2)</u> Tons/Acre		Mulch <u>Hay (2)</u> Tons/Acre	
Seed* <u>Ky 31 20 20</u> lbs/acre		Seed* <u>Ky 31 30 20</u> lbs/acre	
<u>Flat top 20</u> lbs/acre		<u>Flat top 20</u> lbs/acre	

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle QUICK

Legend:  Well Site  
 Access Road



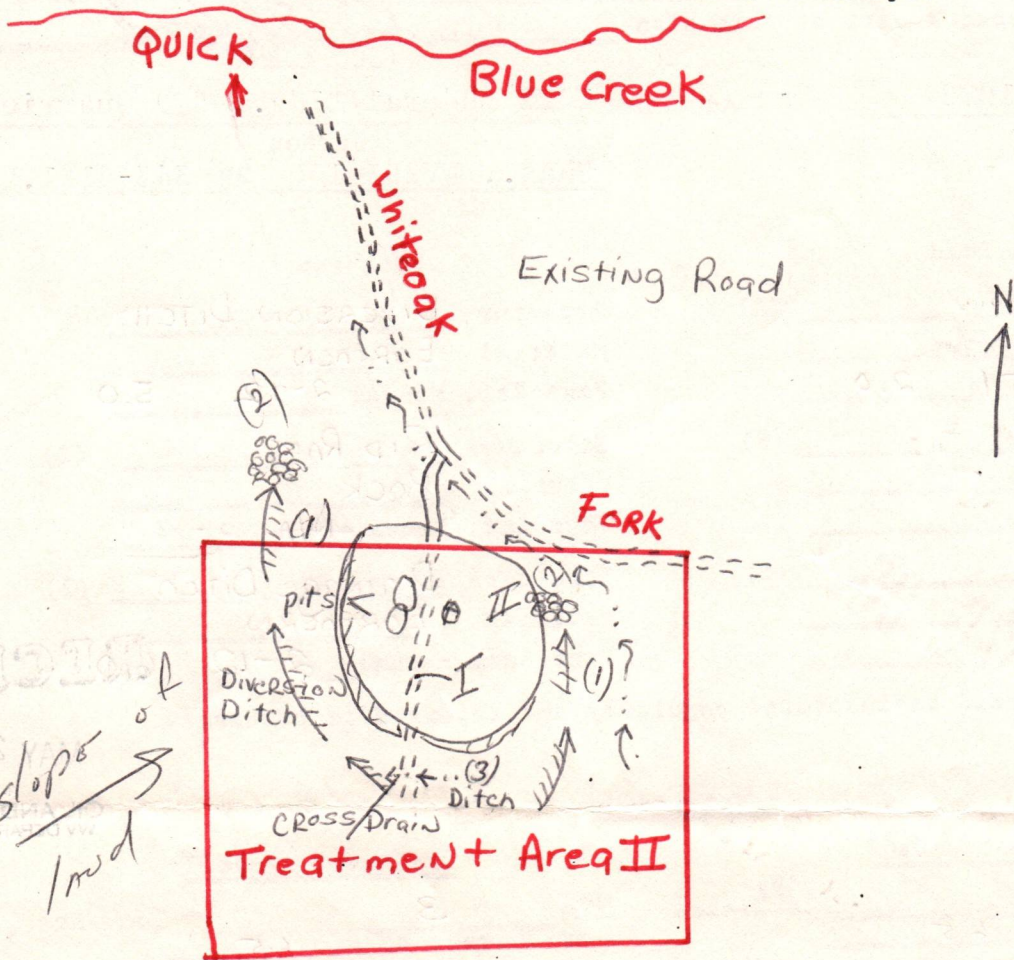


Well Site Plan

- Legend:
- Property Boundry
  - Road
  - Existing Fence
  - Planned Fence
  - Stream
  - Open Ditch

- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

Sketch to include well location, existing access road, roads to be construct wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments: Location road is existing mine road. Road will be ditched. Location will be reclaimed; grading and filling in pits. Seeding will be done within six months of completion of the treatment of the well.

02/16/2024

PLAN PREPARED BY: Steven Rubin

Box 6357 Class. WVA

NAME

342-0141

ADDRESS

PHONE NO.

Please request landowners cooperation to protect new seeding for one growing season.





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IV-35 (Rev 8-81)

JAN 27 1983

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date January 24, 1983 Operator's Well No. KAS #2 Farm API No. 47 - 039 - 3873

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 823.86' Watershed Whiteoak Fork District: Elk County Kanawha Quadrangle Quick

COMPANY Blue Creek Gas Company ADDRESS P.O. Box 6357, Charleston, WV DESIGNATED AGENT Steven M. Rubin ADDRESS P.O. Box 6357, Charleston, WV SURFACE OWNER Union Carbide ADDRESS Sanderson, WV MINERAL RIGHTS OWNER Union Carbide ADDRESS Sanderson, WV OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols ADDRESS Clendenin PERMIT ISSUED May 20, 1982 DRILLING COMMENCED January 10, 1983 DRILLING COMPLETED January 17, 1983 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Shale Depth 1988 - 4209 feet Depth of completed well 4209' feet Rotary / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: Is coal being mined in the area? NO

OPEN FLOW DATA Producing formation Shale Pay zone depth 1988 - 4209 feet Gas: Initial open flow 200 Mcf/d Oil: Initial open flow Bbl/d Final open flow Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure psig (surface measurement) after hours shut in (If applicable due to multiple completion--)

02/16/2024

(Continue on reverse side)



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale, Rock			0	1390	
Big Lime			1390	1544	
Injun			1544	1578	
Shale			1578	1626	
Upper Weir			1626	1660	
Shale			1660	1720	
Lower Weir			1720	1768	
Shale			1768	1976	
Berea			1976	1988	
Shale			1988	4209 T.D.	

(Attach separate sheets as necessary)

Blue Creek Gas Co  
Well Operator

By: Steven M. Rubin

02/16/2024

Date: 1/26/83

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



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

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JAN 14 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3873

Oil or Gas Well Gas  
(KIND)

Company <u>Blue Creek Gas Co</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Charleston, WVA</u>	Size			
Farm <u>Union Carbide</u>	16			Kind of Packer
Well No. <u>Kas #2</u>	13			
District <u>ELK</u> County <u>Kanawha</u>	10			Size of
Drilling commenced <u>1/11/83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used			Perf. top
Rock pressure _____ lbs. _____ hrs.				Perf. bottom
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Bob Golden Pusher Paul Webb

Remarks: Clint Hurt Rig #7  
1/11/83 Moving on + Rigging up will start Drilling  
late tonight.

1/11/83  
DATE

Homer H. Dugan 02/16/2024  
DISTRICT WELL INSPECTOR







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

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JAN 17 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Permit No. 039-3873

Oil or Gas Well Gas  
(KIND)

Company <u>Blue Creek Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Charleston, WVA</u>	Size			
Farm <u>Union Carbide</u>	16			Kind of Packer
Well No. <u>Kas # <del>22</del> 2</u>	13			
District <u>ELK</u> County <u>Kanawha</u>	10 <u>3/4</u>		<u>284</u>	Size of
Drilling commenced <u>1/11/83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used			Perf. top
Rock pressure _____ lbs. _____ hrs.				Perf. bottom
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

CASING CEMENTED 10 3/4 SIZE 284 No. FT. 11/2/83 Date

NAME OF SERVICE COMPANY Halliburton

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

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names Bob Golden Pusher Paul Webb

Remarks: Clint Hurt Rig #7

1/12/83 Ran 284 ft. of 10 3/4" Surface pipe & cemented with 150 sacks of Regular 3% C.C. Plug Down 10:36 AM. by Halliburton

1/13/83 1100 ft. Deep Drilling on Air Soaping Running 8 3/4" Bit.

1/13/83 DATE Homer H. Dougherty DISTRICT WELL INSPECTOR

1/17/83 DATE Cemented with \_\_\_\_\_ by Halliburton Homer H. Dougherty DISTRICT WELL INSPECTOR

02/16/2024



Form 26  
2/16/82

STATE OF WEST VIRGINIA

Form 26  
2/16/82

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

RECEIVED OIL AND GAS DIVISION  
STATE DEPARTMENT OF MINES

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

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

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

DATE

I hereby certify I visited the above well on this date.

02/16/2024

DISTRICT WELL INSPECTOR



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

RECEIVED  
APR 10 1984

INSPECTOR'S WELL REPORT  
OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 039-3873

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Blue Creek Gas  
 Address Charleston WV  
 Farm Union Carbide  
 Well No. KAS #2  
 District E1K County Morgan  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: Met with Steve Ruben Check Reclamation Reclamation #1 complete  
Need Seed, Lime and Mulch

4/4/84  
DATE

Rodney Martin  
DISTRICT WELL INSPECTOR  
02/16/2024



DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_ Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

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

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

DATE \_\_\_\_\_ I hereby certify I visited the above well on this date.





RECEIVED

MAY 30 1984

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

COMPANY Blue Creek Gas  
Charleston, WV

PERMIT NO 039-3873

FARM & WELL NO Union Carbide / Gas 2

DIST. & COUNTY EIK / Kan

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Loch Wilson

DATE 5/21/84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...  
Administrator-Oil & Gas Division

6/1/84

DATE

02/16/2024



FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-039-3873			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	3 Category Code	JAN 27 1983	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	_____ feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Blue Creek Gas Company			OIL & GAS DIVISION DEPT OF MINES
	Name P.O. Box 6357			Seller Code
	Street Charleston,		WV	25302
	City		State	Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Elk District			
	Field Name Kanawha		WV	
(b) For OCS wells:	Area Name		Block Number	
	Date of Lease: Mo. Day Yr.		OCS Lease Number	
	KAS #2			
(c) Name and identification number of this well: (35 letters and digits maximum.)				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corporation			004030
	Name			Buyer Code
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated annual production:	20 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	---	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.444	---	---	5.444
9.0 Person responsible for this application:	Stanley Rubin			Vice President
	Name			Title
	<i>Stanley M. Rubin</i>			Signature
	January 24, 1983		304-342-0141	
Date Application is Completed		Phone Number		

Agency Use Only  
Date Received by Juris. Agency  
**JAN 27 1983**  
Date Received by FERC

02/16/2024



PARTICIPANTS:

DATE: APR 28 1983

BUYER-SELLER CODE

WELL OPERATOR: Blue Creek Gas Company

FIRST PURCHASER: Columbia Gas Transmission

OTHER:

004030

W. Va. Department of Mines, Oil & Gas Division  
WELL DETERMINATION FILE NUMBER

83 D127-107-039-3873

Use Above File Number on all Communications  
Relating to Determination of this Well

~~DEFERRED  
Worksheet~~

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. PH 7.0 8.0 bc
- 2. IV-1 Agent Steven M. Rubin
- 3. IV-2 Well Permit —
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening —
- 6. IV-36 Gas-Oil Test: Gas Only — Was Oil Produced? — Ratio
- 7. IV-39 Annual Production — years
- 8. IV-40 90 day Production — Days off line: —
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete?  Affidavit Signed
- 18-28. Other: Survey — Logs — Geological Charts —  
Structure Map — 1: 4000 Map — Well Tabulations —  
Gas Analyses —
- (5) Date commenced: 11-10-83 Date completed 1-17-83 Deepened —
- (5) Production Depth: 1988-4209
- (5) Production Formation: Shale
- (5) Final Open Flow: NA
- (5) After Frac. R. P. NA
- (6) Other Gas Test: —
- (7) Avg. Daily Gas from Annual Production: —
- (8) Avg. Daily Gas from 90-day ending w/1-120 days —
- (8) Line Pressure: — PSIG from Daily Report
- (5) Oil Production: — From Completion Report —
- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed?  Notarized?  02/16/2024
- Does official well record with the Department confirm the submitted information? yes
- Additional information — Does computer program confirm? —
- Was Determination Objected to — By Whom? —



DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's  
Well No. KAS #2

API Well No.

47 - 039 - 3873  
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Steven M. Rubin

ADDRESS P.O. Box 6357  
Charleston, WV 25302

LOCATION Elevation 823.86

WELL OPERATOR Blue Creek Gas Company

Watershed Whiteoak Fork

ADDRESS P.O. Box 6357  
Charleston, WV 25302

Dist. Elk County Kanawha Quad. Quick

Gas Purchase  
Contract No. \_\_\_\_\_

GAS PURCHASER Columbia Gas Transmission

Meter Chart Code \_\_\_\_\_

ADDRESS 1700 MacCorkle Avenue  
Charleston, WV 25304

Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling began: January 10, 1983

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP = P_1 + \frac{.25 \times P_1}{100} \times \frac{(D)}{100}$$

P<sub>1</sub> = 825 est  
D = 4200

BHP = 912#

AFFIDAVIT

I, \_\_\_\_\_, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Stanley M. Rubin

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

I, Daniel Rubin, a Notary Public in and for the state and county aforesaid, do certify that Stanley M. Rubin, whose name is signed to the writing above, bearing date the 1st day of JAN, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 27th day of JANUARY, 1983.  
My term of office expires on the 7th day of Nov., 1983.

02/16/2024

(NOTARIAL SEAL)

Daniel Rubin  
Notary Public



APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Blue Creek Gas Co Agent: Stanley M Robin  
 Type Determination being sought - 107 (Devonian Shale)  
 API Well No.: 47-039-3873 Well Name: KAS #2  
 West Virginia Office of Oil and Gas County: Kanawha  
 References: SJA File No.

Vol.      Page      Line     

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 160 \* API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 160 \* API Units
2. Calculation:  $0.7 \text{ (GR Value at Base Line)}$   
 $0.7 \text{ (160 *)} = \underline{112}$  API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2000	2750	750	8
2750	3400	650	0
3400	3800	400	0
3800	4000	200	0
4000	4200	200	6

Total Devonian Interval 2200

Total Less Than 0.7 (Shale Base) 8

% Less Than 0.7 (Shale Base Line) =      x 100 = 0.36 %

02/16/2024

\*Marked on log included with analysis.

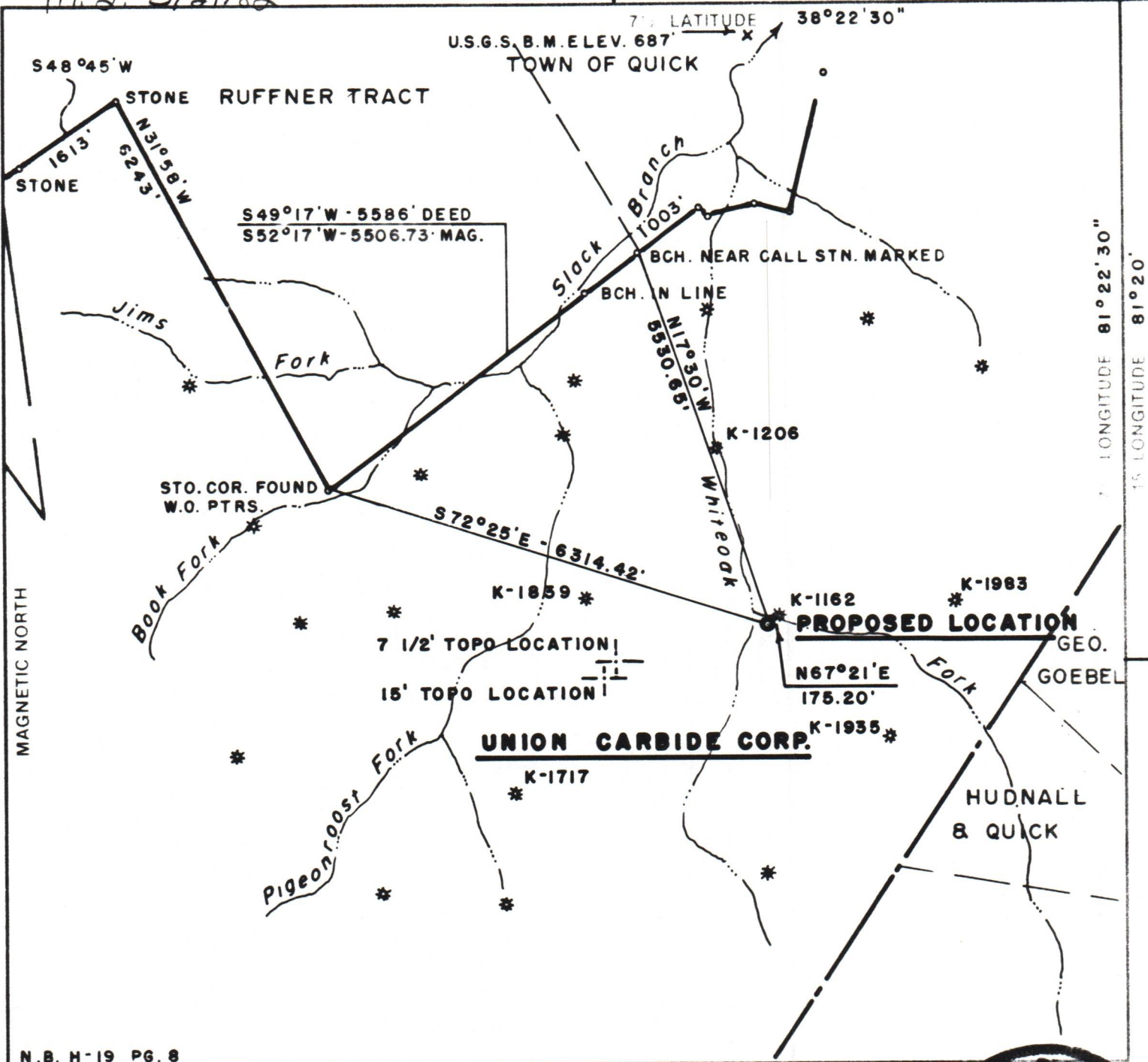
\*\*Top of Devonian Section Recorded on First Interval in this Column.

\*\*\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.



M.L. 5/21/82

15 LATITUDE 7050' 38°25'

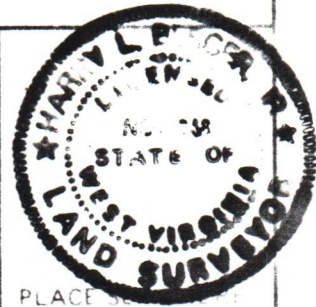


N.B. H-19 PG. 8

FILE NO KAS-2  
 MAP NO QUICK QUAD.  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. SHOWN E.L. 687

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.

(SIGNED) *Harry E. Berger Jr.*  
 HARRY E. BERGER JR. L.L.S. 248



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (878)



DATE MAY 18 19 82  
 OPERATOR'S WELL NO KAS-2  
 API WELL NO 47-039-3873  
 STATE 47 COUNTY 039 PERMIT 3873

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION ELEVATION 823.86' WATER SHED WHITEOAK FORK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE 7 1/2' QUICK & 15' CLENDENIN S.W.

SURFACE OWNER UNION CARBIDE CORP. ACREAGE 2389  
 OIL & GAS ROYALTY OWNER UNION CARBIDE CORP. LEASE ACREAGE 2389

PROPOSED WORK DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 4125'  
 OPERATOR BLUE CREEK GAS CO. AGENT STEVE RUBIN  
 ADDRESS BOX 6357 ADDRESS BOX 6357  
CHARLESTON, WV 25302 CHARLESTON, WV 25302

02/16/2024



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

RECEIVED

JAN 24 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3873

Oil or Gas Well Gas  
(KIND)

Company <u>Blue Creek Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Charleston, W.V.A.</u>	Size			
Farm <u>Union Carbide</u>	16			Kind of Packer
Well No. <u>Kas #2</u>	13			
District <u>EIK</u> County <u>Kanawha</u>	10			Size of
Drilling commenced <u>1/11/83</u>	8 1/4			
Drilling completed <u>1/17/83</u> Total depth <u>4190</u>	7		1423	Depth set
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	4 1/2		4172	Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom
Volume _____ Cu. Ft.	Liners Used			Perf. top
Rock pressure _____ lbs. _____ hrs.				Perf. bottom
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED <u>7"</u> SIZE <u>1423</u> No. FT. <u>1/14/83</u> Date			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Bob Golden Pusher Paul Webb

Remarks: Clint Hunt Rig #7  
1/14/83 Ran 1423 Ft. of 7" casing + cem. with 75 sacks Regular 3% c.c. Plug Down 6:15 A.M. by Halliburton  
1/16/83 T.D. of Hole 4190 Ft.  
1/17/83 Ran 101 joints total of 4172 Ft. of 4 1/2" Pipe Cemented with 140 sacks of 5050 Pozmix Plug Down 1:00 P.M. by Halliburton

1/17/83  
DATE

Homer H. Dougherty 02/16/2024  
DISTRICT WELL INSPECTOR



Form 26  
2/16/82

RECEIVED

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

INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_ Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

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

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_ I hereby certify I visited the above well on this date.  
DATE

02/16/2024

DISTRICT WELL INSPECTOR