



1) Date: September 10, 1984  
 2) Operator's Well No. Schoolcraft #1009  
 3) API Well No. 47 - 013 - 3797  
 State County Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
 5) LOCATION: Elevation: 1236.31' Watershed: Little Bear Fork LKSBA  
 District: Sherman County: Calhoun Quadrangle: 7.5' 7.5' Millstone  
 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 220 E. 42nd St. 33rd Floor Address 710 Virginia St., E.  
New York, New York 10017 Charleston, W.V. 25301  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace  
 Address Rt. 1 Box 5  
Sandridge, W.V. 25274  
 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME  
 Address \_\_\_\_\_  
 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE  
 12) Estimated depth of completed well, 5625 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes

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 SEP 13 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINE

15) 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									Kinds
Fresh water	9 5/8	LS	33#	X		525'	525'	To Surface	Neat
Coal									Sizes
Intermediate	7"	J-55	20#	X		2425'	2425'	100 sks	
Production	4 1/2	ERW	10.5#	X			5625'	250 sks	Depths set
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-013-3797 Date October 10, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires October 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

BOND BLANKET <u>148</u>	Agent: <u>LS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>7798</u>
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Margaret J. Hasse  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.







1) Date: September 10, 1984  
2) Operator's  
Well No. 1009  
3) API Well No. 47-013-3797  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

- (i) Name WOODROW SCHOOLCRAFT  
Address RT. 1 BOX 1A  
STUMPTOWN, W.V. 25280
- (ii) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR UNOPERATED  
Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name UNKNOWN  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan 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 Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes NoXX

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by  
Harry L. Berger, Jr.

this 10 day of September, 1984.  
My commission expires May 10, 1989.

Daniel M. Gillespie  
Notary Public, Kanawha County,  
State of West Virginia

WELL  
OPERATOR Sterling Drilling & Prod. Co., Inc.

By Harry L. Berger  
Its Designated Agent  
Address 710 Virginia St., E.  
Charleston, W.V. 25301  
Telephone 342 - 0121

05/17/2024



I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
J. W. Schoolcraft Rt. 1 Box 14 Stumptown, W.V. 25280	Sterling Drilling and Production Co., Inc.	1/8	20/378

Leon Powell





1) Date: SEPTEMBER 18, 1984  
 2) Operator's Well No. SCHOOLCRAFT # 1009  
 3) API Well No. 47 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 1236.31' Watershed: LITTLE BEAR FORK  
 District: SHERMAN County: CALHOUN Quadrangle: 7.5' MILLSTONE
- 6) WELL OPERATOR STERLING DRILLING & PRODUCTION CO., INC. 7) DESIGNATED AGENT HARRY L. BERGER, JR.  
 Address 220 E. 42nd ST. 33rd FLOOR Address 710 VIRGINIA ST., E.  
NEW YORK, NEW YORK 10017 CHARLESTON, W. V. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name DEO MACE Name UNKNOWN AT THIS TIME  
 Address RT. 1 BOX 5 Address \_\_\_\_\_  
SANDRIDGE, W. V. 25274
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
- 12) Estimated depth of completed well, 5625 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes \_\_\_\_\_ / No X
- 15) 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		Kinds	Sizes
Conductor										
Fresh water	<u>9 5/8"</u>	<u>LS</u>	<u>33#</u>			<u>525'</u>	<u>525'</u>	<u>TO SURFACE</u>		
Coal										
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>			<u>2425'</u>	<u>2425'</u>	<u>100 SKS</u>		
Production	<u>4 1/2"</u>	<u>ERW</u>	<u>10.5#</u>				<u>5625'</u>	<u>250 SKS</u>		
Tubing										
Liners										

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

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 based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

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

X Shoodron Schoolcraft  
 (Signature)

Date: 10-4-84

By \_\_\_\_\_

(Signature) \_\_\_\_\_ Date: \_\_\_\_\_

Its \_\_\_\_\_ Date \_\_\_\_\_

(Signature)

05/17/2024

Surface Owner





IV-9  
(Rev 8-81)



DATE 8-18-84

WELL NO. Schoolcraft # 1009

### State of West Virginia

API NO. 47 - 013 - 3797

Department of Mines  
Oil and Gas Division

#### CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. CODESIGNATED AGENT Sterling Drilling & Prod.

Address 360 Madison Ave.-NY, NY 10017 Address c/o H.L.Berger - Chas., WV

Telephone (212) 682-0204 Telephone (304) 342-0121

LANDOWNER Leath ~~Paul~~ WOODROW SCHOOLCRAFT SOIL CONS. DISTRICT Little Kanawha SCD

Revegetation to be carried out by Sterling Drilling & Prod. Co.-H.L.Berger (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 8/31/84 (Date)

FR  
Ronald P. Johnson  
(SCD Agent)

#### ACCESS ROAD

#### LOCATION

Structure \_\_\_\_\_ (A)

Structure \_\_\_\_\_  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
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SEP 13 1984

Size \_\_\_\_\_

Structure Rip-Rap (B)  
Material Rock

Page Ref. Manual \_\_\_\_\_

Structure Drainage Ditches (B)

Location Roadside

Page Ref. Manual 2-12

Page Ref. Manual 2-9

Structure Cross Drains (C)

Structure \_\_\_\_\_ (3)

Spacing 400' for 2.5" in

Material \_\_\_\_\_

Page Ref. Manual 2-4 Table 1

Page Ref. Manual \_\_\_\_\_

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

#### REVEGETATION

##### Treatment Area I

##### Treatment Area II

Lime 2 Tons/acre  
or correct to pH 6.5

Lime 2 Tons/acre  
or correct to pH 6.5

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

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

Mulch Hay or Straw 2 Tons/acre

Mulch Hay or Straw 2 Tons/acre

Seed\* Orchard grass 15 lbs/acre

Seed\* Orchard grass 15 lbs/acre

Red Clover 4 lbs/acre

Red Clover 4 lbs/acre

Alsike Clover 4 lbs/acre

Alsike Clover 4 lbs/acre

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

05/17/2024

PLAN PREPARED BY Richard X. Campbell

ADDRESS Route 1, Box 30

Duck, WV 25063

PHONE NO. (304) 364-5780

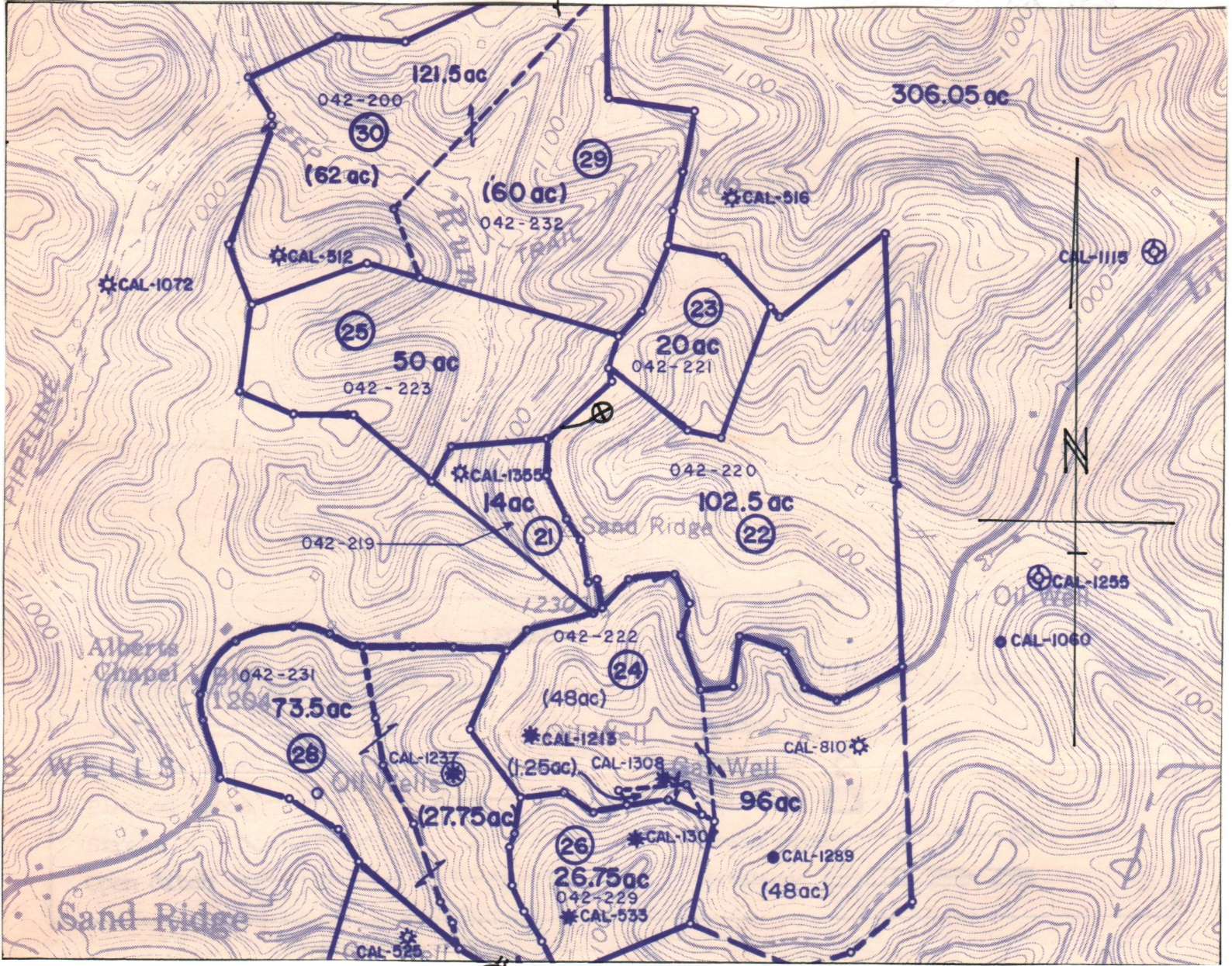
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.



IV-9 REVERSE  
(REV 6-81)

INVOLVED TOPOGRAPHIC MAP  
QUADRANGLE 7 1/2' Millstone  
Arnoldsburg SW

**LEGEND**  
Well Site ⊕  
Access Road ———



05/17/2024



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OCT 04 1984

OIL & GAS DIVISION  
DEPT. OF MINES

1009  
P 522 051 912

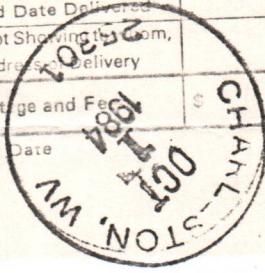
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE FOR LOSS  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	
WOODROW SCHOOLCRAFT	
Street and No.	
RT. 1 BOX 14	
P.O., State and ZIP Code	
STUMPTOWN, W. V. 25280	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, Feb. 1982



05/17/2024







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

Perforations:

1st stage: 28 holes from 4484' to 5349'  
 2nd stage: 28 holes from 3618' to 4326'  
 3rd stage: 25 holes from 2724' to 3494'

Treatment:

1st stage: 1000 gals of 15% HCL; 1,616 MSCF of N<sub>2</sub>  
 2nd stage: 1000 gals of 15% HCL; 1,760 MSCF of N<sub>2</sub>  
 3rd stage: 1000 gals of 15% HCL; 1,760 MSCF of N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone and Shale			10	1121	All measurements from 10' KB
Sandstone			1121	1269	
Shale break			1269	1280	
Sandstone			1280	1354	
Shale break			1354	1359	
Sandstone			1359	1484	
Siltstone and Shale			1484	1860	
Salt Sand			1860	1904	
Shale			1904	1963	
Salt Sand			1963	2042	Salt water @ 2014'
Shale			2042	2060	
Salt Sand			2060	2096	
Shale			2096	2116	
Little Lime			2116	2150	
Blue Monday			2150	2162	
Pencil Cave			2162	2168	
Big Lime			2168	2269	
Big Injun			2269	2322	
Shale			2322	2606	
Sunbury Shale			2606	2630	
Siltstone and Shale			2630	2978	
Shale			2978	5051	Top of Java Formation @ 4878'
Siltstone			5051	5102	
Shale			5102	5266	Top of Angola Shale @ 5110'
Siltstone			5266	5325	
Shale			5325	5552	Top of Rhinestreet Shale @ 5400'
					TD 5552

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.  
 Well Operator

By: Harry J. Berger, Jr. 05/17/2024  
 Date: 2-11-85

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

RECEIVED  
NOV 7 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3797

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

Company Sterling

Address \_\_\_\_\_

Farm Schoolcraft

Well No. 1009

District Sherman County Cal

Drilling commenced 10-28-84

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 5/8			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 Hunt 1

Remarks:  
540' of 9 5/8" casing, 195 SKS cement, Dowell, 10-29-84  
cement circulated

10-29-84  
DATE

Oro Mac 05/17/2024  
DISTRICT WELL INSPECTOR







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

RECEIVED

NOV 7 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3797

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

Company Sterling

Address \_\_\_\_\_

Farm Schoolcroft

Well No. 1009

District Sherman County Cal.

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 Hunt 1

Remarks:

Drilling at 1800

10-30-84

DATE

Deo Moore 05/17/2024

DISTRICT WELL INSPECTOR







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

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NOV 7 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3797

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

Company Stelby

Address \_\_\_\_\_

Farm Schoolcraft

Well No. 1009

District Sherman County Cal

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 Hunt /

Remarks: 2446' 7" casing, 175 SKS cement, Danell, 10-31-84

10-31-84  
DATE

W. M. Moore 05/17/2024  
DISTRICT WELL INSPECTOR







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

RECEIVED

NOV 7 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3797

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

Company Starly

Address \_\_\_\_\_

Farm Schoolcraft

Well No. 1009

District Sherman County Cul

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 5/8			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 Hunt 1

Remarks:

~~4400~~

4500' 11-2-84

T.D. 5550' 11-3-84

DATE

Des Moore 05/17/2024  
DISTRICT WELL INSPECTOR







STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

**RECEIVED**  
JUN 19 1985

OIL & GAS DIVISION

**DEPT. OF MINES**

Company: STERLING DRILLING  
Farm: SCHOOLCRAFT, WOODROW

Well: 1009

(10-10-84)  
Permit No. 47- 13-3797  
County: CALHOUN

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 Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
15.05	Cement Type	-----	-----
23.02	Maintained Access Roads	-----	-----
25.01	Necessary Equipment to Prevent Waste	-----	-----
23.04	Reclaimed Drillings Pits	-----	-----
23.05	No Surface or Underground Pollution	-----	-----
23.07	Requirements for Production & Gathering Pipelines	-----	-----
16.01	Well Records on Site	-----	-----
02	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED Dw. Mace  
DATE 6-13-85

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. r. B. B.  
Administrator

----- June 27, 1985 -----  
Date







DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION 47-013-~~3794~~

Date: Feb. 7, 19 85

AGENCY USE ONLY *Dev.*

Applicant's Name: Sterling Drilling & Production Co., Inc.

WELL DETERMINATION FILE NUMBER

Address: 710 Virginia Street, E. Arcade Bldg  
Charleston, WV 25301

850212 - 107 - 013 - 3797  
~~3794~~

Gas Purchaser Contract No. \_\_\_\_\_

Use Above File Number on all  
Communications Relating to This Well

Date of Contract \_\_\_\_\_  
(Month, day and year)

SDP# 1009

First Purchaser: UNDEDICATED

Designated Agent: Harry L. Berger, Jr.

Address: \_\_\_\_\_  
(Street or P.O. Box)  
(City) (State) (Zip Code)

Address: Sterling Drilling & Prod. Co., Inc.  
710 Virginia St., E. Arcade Bldg.  
Charleston, WV 25301

FERC Seller Code 018084

FERC Buyer Code \_\_\_\_\_

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Harry L. Berger, Jr. Agent  
(Print) \_\_\_\_\_ (Title)

Signature: *Harry L. Berger, Jr.*

Address: Sterling Drilling & Prod. Co., Inc.  
710 Virginia St., E., Arcade Bldg.  
(Street or P.O. Box)

Charleston, WV 25301  
(City) (State) (Zip Code)

Telephone: 304 342-0121  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
  - 103 New Onshore Production Well
- 107 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

QUALIFIED

05/17/2024

RECEIVED

FEB 12 1985

OIL & GAS DIV.  
DEPT. OF MINES

FEB 28 1985

Determination Date

Date Received



DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's  
Well No. 1009 Schoolcraft

API Well No.  
47 - 013 - 3797  
State County Permit

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE  
NGPA Section 107

DESIGNATED AGENT Harry L. Berger, Jr.

ADDRESS Arcade Building; 710 Virginia St., E.  
Charleston, WV 25301

LOCATION Elevation 1236.31

WELL OPERATOR Sterling Drilling & Production Co Watershed Little Bear Fork

ADDRESS 710 Virginia Street, East Dist. Sherman County Calhoun Quad. 7½' Millstone  
Charleston, WV 25301

GAS PURCHASER UNDEDICATED Gas Purchase Contract No. \_\_\_\_\_

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

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

\* \* \* \* \*

Date surface drilling began: October 28, 1984

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS  
 $t = 60 + (0.0075 \times 5552) + 459.67 = 561$  .  $X = \frac{1}{53.34} \times 561 = .0000334$   
 $Pf = 750 \times 2.7183 \times .0000334 \times 4037 \times .690 \times 1.09 = 880$  PSIA

AFFIDAVIT

I, Harry L. Berger, Jr., 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.

Harry L. Berger, Jr.

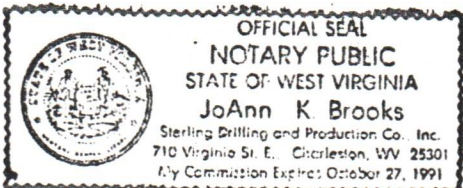
STATE OF WEST VIRGINIA  
COUNTY OF Kanawha, TO-WIT:

I, JoAnn K Brooks, a Notary Public in and for the state and county aforesaid, do certify that Harry L. Berger, Jr., whose name is signed to the writing above, bearing date the 7th day of February, 1985, has acknowledged the same before me, in my county aforesaid.

05/17/2024

Given under my hand and official seal this 7th day of February, 1985.  
My term of office expires on the 27th day of October, 1991.

(NOTARIAL SEAL)



JoAnn K Brooks  
Notary Public



DEVONIAN SHALE GAMMA RAY LOG ANALYSIS  
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: \_\_\_\_\_ Agent: \_\_\_\_\_

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-013-3797 Well Name: Schoolcraft #1009

West Virginia Office of Oil and Gas County: Calhoun  
 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 = 112 \* 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***		
2550	5540	2990'	26'

Total Devonian Interval 2990

Total Less Than 0.7 (Shale Base) 26'

% Less Than 0.7 (Shale Base Line) =  $\frac{0.0086}{2990} \times 100 = \underline{0.86\%}$

05/17/2024

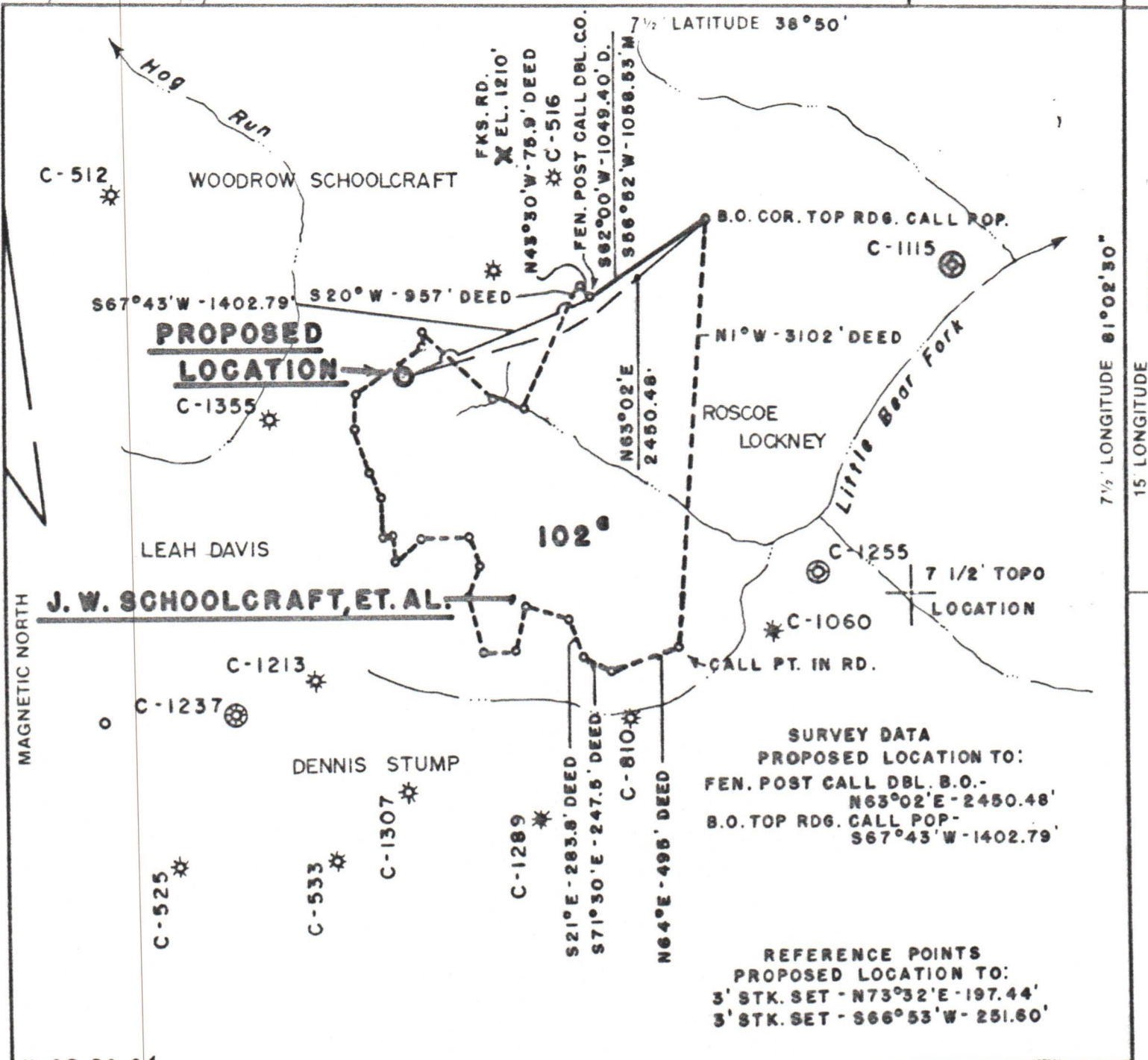
\*Marked on log included with analysis.  
 \*\*Top of Devonian Section Recorded on First Interval in this Column.  
 \*\*\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.



774 10/10/89

15' LATITUDE

3000



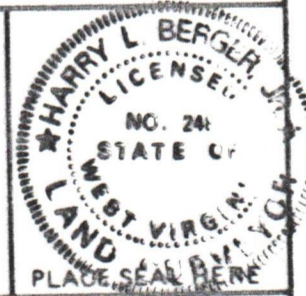
**SURVEY DATA**  
**PROPOSED LOCATION TO:**  
 FEN. POST CALL DBL. B.O. -  
 N63°02'E - 2450.48'  
 B.O. TOP RDG. CALL POP -  
 S67°43'W - 1402.79'

**REFERENCE POINTS**  
**PROPOSED LOCATION TO:**  
 3' STK. SET - N73°32'E - 197.44'  
 3' STK. SET - S66°53'W - 251.60'

H-25, PG. 64

FILE NO. 044-012  
 MAP NO. 58-D  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. DATA FKS. RD. SHOWN EL. 1210'

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 L. Berger, Jr.  
 HARRY L. BERGER, JR. L.L.S. 248



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE JULY 11, 1984  
 OPERATOR'S WELL NO. 1009  
 API WELL NO. 47-013-3797  
 STATE COUNTY PERMIT

**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 1236.31' WATER SHED LITTLE BEAR FORK  
 DISTRICT SHERMAN COUNTY CALHOUN  
 QUADRANGLE 7 1/2' MILLSTONE (ARNOLDSBURG S.W.)  
 SURFACE OWNER LEAH DAVIS WOODROW SCHOOLCRAFT ACREAGE 102  
 OIL & GAS ROYALTY OWNER J.W. SCHOOLCRAFT, ET. AL. LEASE ACREAGE 102  
 LEASE NO. 044-012  
 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 5625'  
 OPERATOR STERLING DRILLING & PRODUCTION CO. INC. AGENT HARRY L. BERGER  
 ADDRESS 360 MADISON AVE. - 5TH FLOOR ADDRESS 710 VIRGINIA ST. E.  
NEW YORK, N.Y. 10017 CHARLESTON, WV 25301

05/17/2024