

RECEIVED

SEP 28 1984



1) Date: September 18, 1984
 2) Operator's Well No. Schoolcraft #1010
 3) API Well No. 47 - 013 - 3803
 State County Permit

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

OIL & GAS DIVISION
 DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1242.98' Watershed: Little Bear Fork LKS 8A
 District: Sherman County: Calhoun Quadrangle: 7.5' Millstone
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc DESIGNATED AGENT Harry L. Berger, Jr.
 Address 220 E. 42 nd St. 33rd Floor Address 710 Virginia St., E.
New York, New York 10017 Charlyston, 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 strata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes / No

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									
Fresh water	9 5/8	LS	33#	X		525'	525'	To Surface	Kinds <u>NEAT</u>
Coal									Sizes
Intermediate	7"	J-55	20#	X		2425'	2425'	100 sks	Depths set
Production	4 1/2	ERW	10.5#	X			5625'	250 sks	Perforations: <u>as required by rule 15.0</u>
Tubing									Top Bottom
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3803

October 10, 19 84
 Date

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: <u>148</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>7888</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.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File
 05/17/2024

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: Little Bear Fork, Little Bear Fork, VA 22424
 2) OPERATOR: Harry L. Berger, Inc., 710 Virginia St., Charlottesville, N.V. 22901
 3) PERMITTING CONTRACTOR: [Name Unknown at this time]
 4) GEOLOGICAL LABEL INFORMATION: BROWN SHALE
 5) APPLICATION CONTAINS: []
 6) ASBESTOS TESTING PROGRAM: []
 7) CAP BAND TESTING PROGRAM: []
 8) OTHER PHYSICAL CHANGES IN WELL (Specify):
 9) OTHER INFORMATION: []
 10) PERMIT NUMBER: 47-013-3803

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____

148	147	146	145
-----	-----	-----	-----



1) Date: SEPTEMBER 18, 19 84
 2) Operator's Well No. SCHOOLCRAFT # 1010
 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: 1242.98' Watershed: LITTLE BEAR FORK
 District: SHERMAN County: CALHOUN Quadrangle: 7.5' MILLSTONE
- 6) WELL OPERATOR STERLING DRILLING & PRODUCTION 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 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		
Conductor									Kinds
Fresh water	<u>9 5/8"</u>	<u>LS</u>	<u>33#</u>	<u>X</u>		<u>525'</u>	<u>525'</u>	<u>TO SURFACE</u>	
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</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>X</u>			<u>5625'</u>	<u>250 SKS</u>	Depths set
Tubing									
Liners									Perforations: Top _____ Bottom _____

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: _____

By _____

Its _____ Date _____

[Signature] Date: 10-4-84
 (Signature)

 (Signature)

erse
-83]

1) Date: September 18, 1984
2) Operator's Well No. 1010
3) API Well No. 47-013-3803
State County Permit

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

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name WOODROW SCHOOLCRAFT
Address RT. 1 BOX 14
STUMPTOWN, W.V. 25280

(i) Name _____
Address _____

(i) 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 No

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 of my County and State by
Harry L. Berger, Jr.

My commission expires September, 1984.
May 10, 1989.

David 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			



IV-9
(Rev 8-81)

RECEIVED

SEP 28 1984

State of West Virginia
Department of Mines
Oil and Gas Division

DATE 9-15-84

WELL NO. Schoolcraft # 1010

API NO. 47 - 013 - 3803

OIL & GAS DIVISION
DEPT. OF MINES
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 ~~Leach Davis~~ Woodrow Schoecraft 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: 9/20/84 (Date)

Randall J. Atkinson
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert (A)

Structure _____ (1)

Size 16"

Material _____

Page Ref. Manual 2-8 Table 3

Page Ref. Manual _____

Structure Drainage Ditches (B)

Structure Rip-Rap (2)

Location Roadside

Material Rock

Page Ref. Manual 2-12

Page Ref. Manual 2-9

Structure Cross Drains - Broad Based (C)

Structure _____ (3)

Spacing 2-4% - 300'

Material _____

Page Ref. Manual 2-4 Table 2

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 8 lbs/acre

Red Clover 8 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 A. Campbell

ADDRESS Route 1, Box 30

Duck, WV 25063

PHONE NO. (304) 364-5780

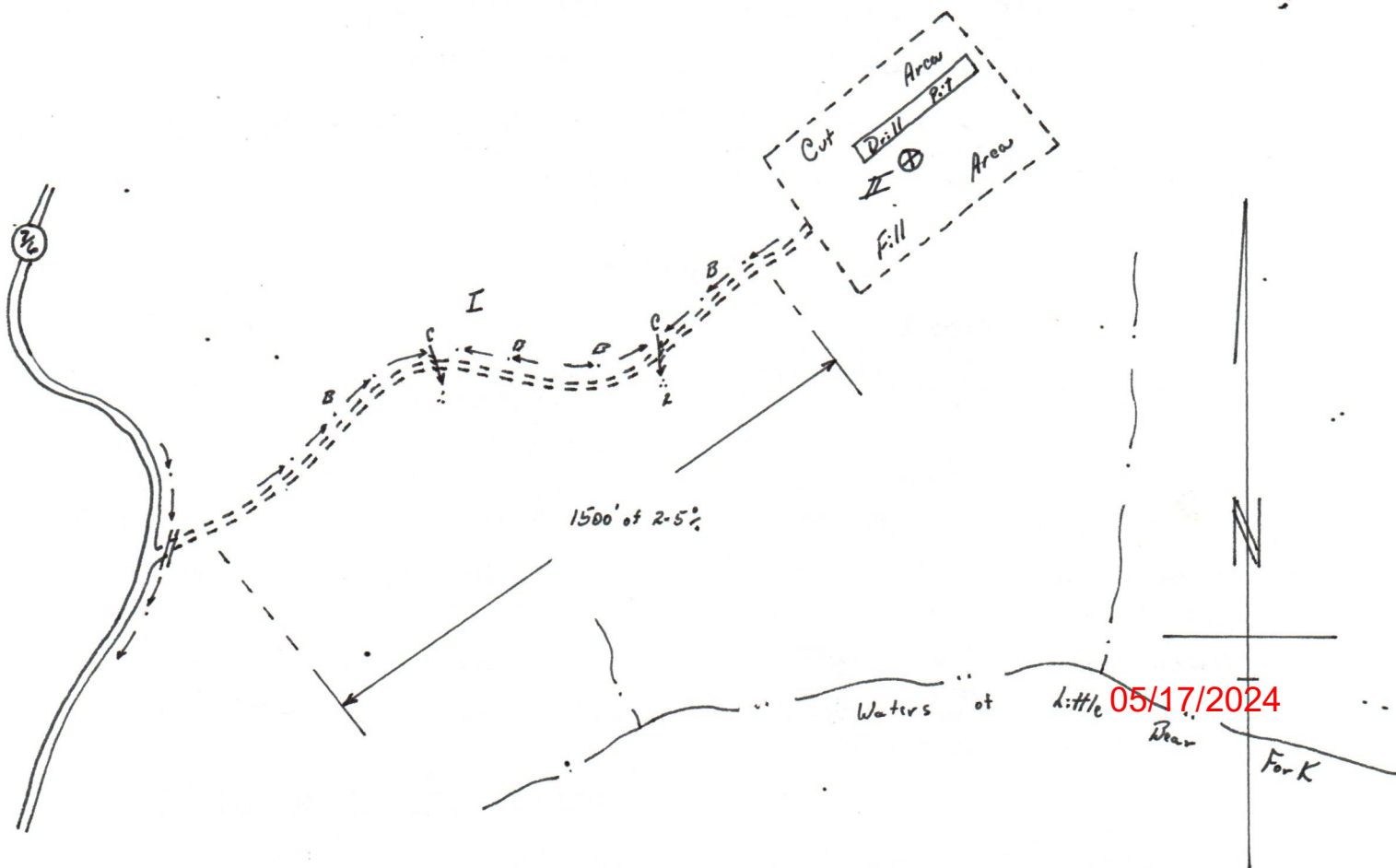
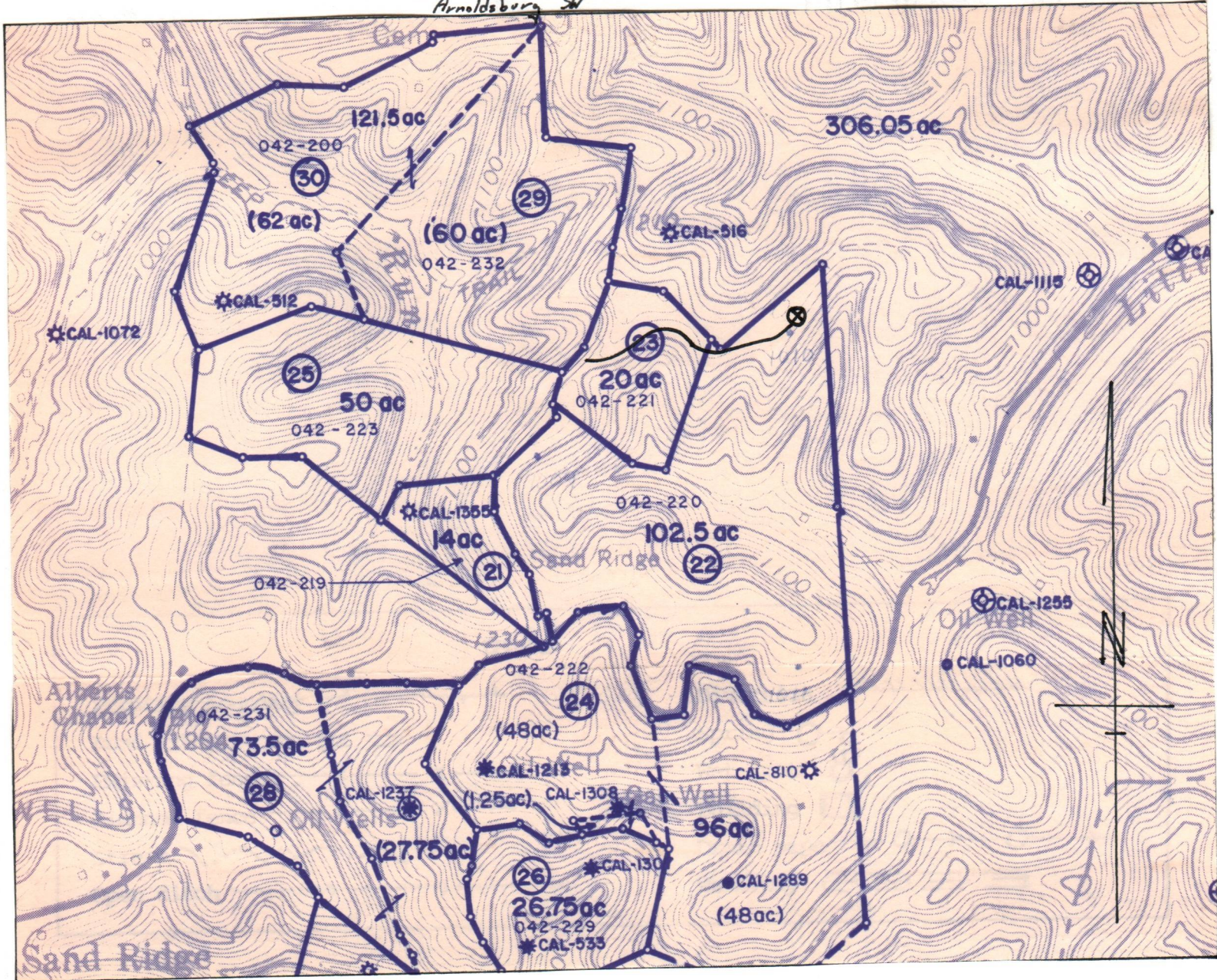
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

IV-9 REVERSE
(REV 8-81)

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

LEGEND

Well Site	⊕
Access Road	—



1010
P 522 056 729

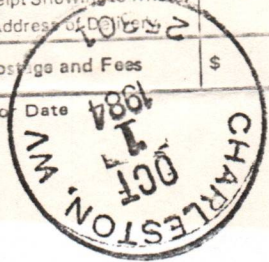
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to WOODROW SCHODLRAFT	
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 of Date	

PS Form 3800, Feb. 1982



RECEIVED

OCT 04 1984

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED

FEB 19 1985



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. of MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date February 14, 1985
Operator's
Well No. 1010
Farm Schoolcraft
API No. 47 - 013 - 3803

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 x / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 1242.98 Watershed Little Bear Fork
District: Sherman County Calhoun Quadrangle 7.5' Millstone

COMPANY Sterling Drilling & Production Co., Inc.

ADDRESS 710 Virginia St., E, Charleston, WV

DESIGNATED AGENT Harry L. Berger, Jr. 25301

ADDRESS 710 Va. St., E. Charleston, WV 25301

SURFACE OWNER Woodrow Schoolcraft

ADDRESS Rt 1, Box 14, Stumptown, WV 25280

MINERAL RIGHTS OWNER J. W. Schoolcraft

ADDRESS same

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

ADDRESS Rt 1, Box 5 Sandridge, WV 25274

PERMIT ISSUED October 10, 1984

DRILLING COMMENCED November 12, 1984

DRILLING COMPLETED November 18, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	545'	545'	250 sks
8 5/8			
7	2443'	2443'	175 sks
5 1/2			
4 1/2		5444'	300 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5625 feet

Depth of completed well 5475' feet Rotary x / Cable Tools _____

Water strata depth: Fresh none reported feet; Salt 2035 feet

Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2818'-5332' feet

Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 313 Mcf/d Final open flow 10 Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 750 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: 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

(Continue on reverse side)

CAL 3803

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

Perforations:

1st Stage: 24 holes, 4450' - 5332'
 2nd Stage: 23 holes, 3568' - 4310'
 3rd Stage: 20 holes, 2818' - 3279'

Treatment:

1st Stage: 1000 gals of 15% HCL, 1,118 MSCF of N₂
 2nd Stage: 1000 gals of 15% HCL, 1,206 MSCF of N₂
 3rd Stage: 750 gals of 15% HCL, 1,584 MSCF of N₂

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	1140	All measurements from 10' KB
Sandstone			1140	1275	
Shale			1275	1304	
Sandstone			1304	1374	
Shale			1374	1411	
Sandstone			1411	1470	
Siltstone and Shale			1470	1867	
Salt Sand			1867	1914	
Shale			1914	1969	
Salt Sand			1969	2009	
Shale			2009	2037	
Salt Sand			2037	2088	Salt water @ 2035'
Shale			2088	2105	
Little Lime			2105	2140	
Blue Monday			2140	2155	
Pencil Cave			2155	2162	
Big Lime			2162	2260	
Big Injun			2260	2315	
Shale			2315	2598	
Sunbury Shale			2598	2624	
Siltstone and Shale			2624	2972	
Shale			2972	5051	Top of Java Formation @ 4873'
Siltstone			5051	5094	
Shale			5094	5259	Top of Angola Shale @ 5108'
Siltstone			5259	5350	
Shale			5350	5475	Top of Rhinestreet Shale @ 543'
					TD 5475'

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.
Well Operator

05/17/2024

By: Harry J. Berger, Jr.

Date: 2-14-85

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 20 1984

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

Permit No. 13-3803

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Schoolcraft
 Well No. 1010
 District Sherman County Cal
 Drilling commenced 11-12-84
 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: 545' 9 5/8" casing, 200 SKS Cement, Dowell, 11-13-84

11-13-84
DATE

Wes Mace 05/17/2024
DISTRICT WELL INSPECTOR

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

RECEIVED
NOV 20 1984

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

Permit No. 13-3803

Oil or Gas Well _____
(KIND)

Company Stalitz

Address _____

Farm Schoolcraft

Well No. 1010

District Shannon 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 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 /

Remarks:
2443' 7" casing, 175 SKS cement, Dowell, 11-15-84

11-16-84
DATE

D. M. Mace 05/17/2024
DISTRICT WELL INSPECTOR

26-Feb-85

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: 1010

(10-10-84)
Permit No. 47-13-3803
County: CALHOUN

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drillins	-----	-----
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 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 Deo Mace
DATE 6-13-85

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

T. H. ...

Administrator

June 27, 1985

Date

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

47-013-3803

Date: Feb. 14, 19 85

AGENCY USE ONLY

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

WELL DETERMINATION FILE NUMBER

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

850220 -107-013-3803

Use Above File Number on all
Communications Relating to This Well

Gas Purchaser Contract No.

Date of Contract
(Month, day and year)

SDP # 1010

First Purchaser: UNDEDICATED

Designated Agent: Harry L. Berger, Jr.

Address:
(Street or P.O. Box)

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

(City) (State) (Zip Code)

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.*
Sterling Drilling & Prod. Co., Inc.

Address: 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
 - X 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

Q

QUALIFIED

05/17/2024

RECEIVED

FEB 20 1985

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Schoolcraft #1010

API Well No.

47 - 013 - 3803
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 1242.98

WELL OPERATOR Sterling Drilling & Production Co Watershed Little Bear Fork

ADDRESS 710 Virginia Street, East Dist. Sherman County Calhoun Quad. 7.5' Millstone
Charleston, WV 25301

Gas Purchase
Contract No. _____

GAS PURCHASER UNDEDICATED

Meter Chart Code _____

ADDRESS _____

Date of Contract _____

* * * * *

Date surface drilling began: November 12, 1984

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5475) + 459.67 = 561 \cdot X = \frac{1}{53.34} \times 561 = .0000334$$

$$Pf = 750 \times 2.7183 \cdot 0.0000334 \times 4075 \times .690 \times 1.09 = 831 \text{ PSIA}$$

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

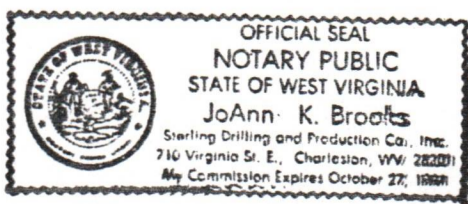
COUNTY OF Kanawha, TO-WIT:

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 14th 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 14th 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: Sterling Drilling & Production Co. Agent; Harry L. Berger, Jr.

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-013-3803 Well Name: Schoolcraft #1010

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 = 165 * API Units
2. Remarks:

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

1. GR Value = 116 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (165 *)}} = \underline{116}$ 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	5436	2886	63

Total Devonian Interval 2886

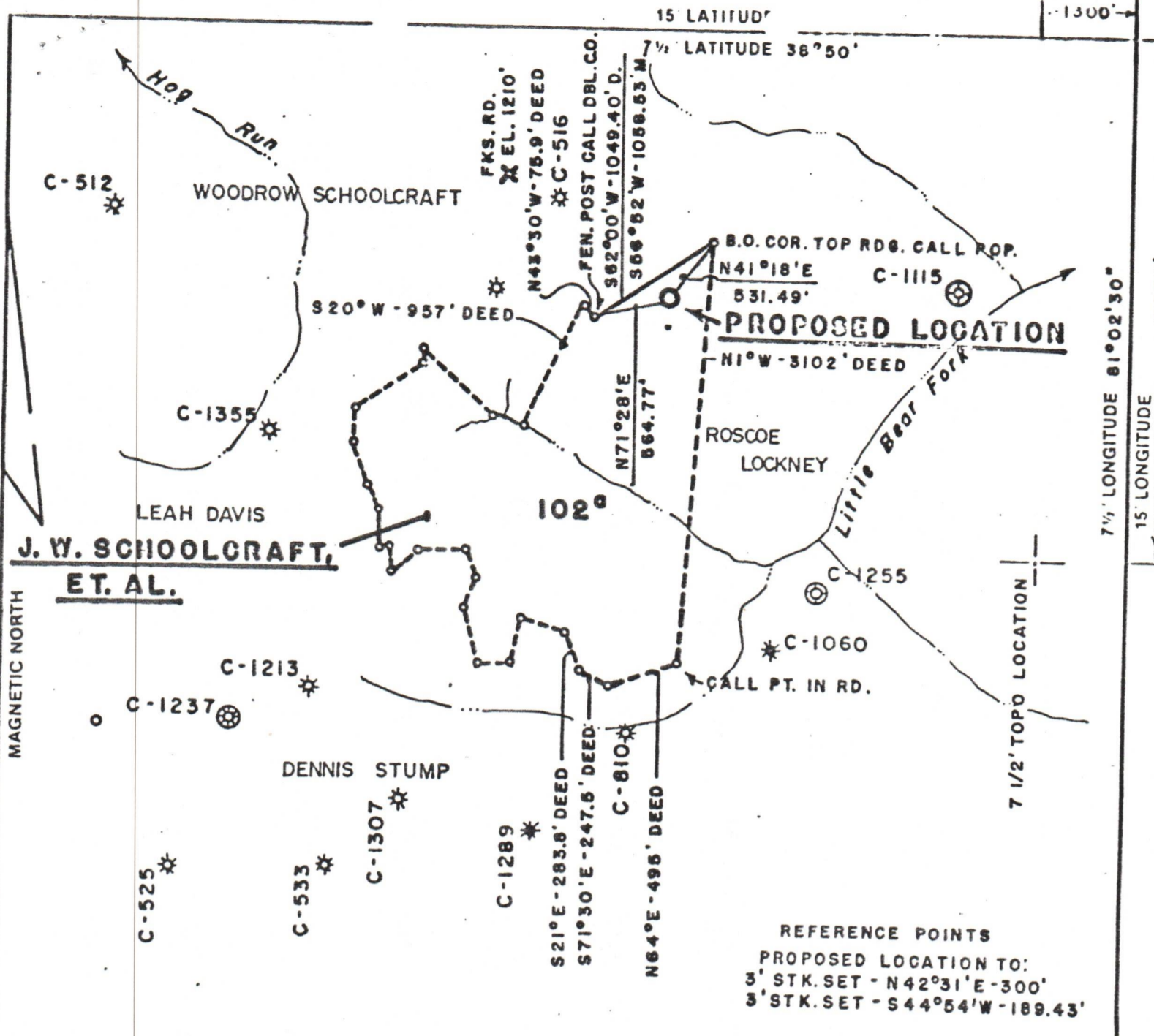
Total Less Than 0.7 (Shale Base) 63

% Less Than 0.7 (Shale Base Line) = $\frac{0.021}{1} \times 100 = \underline{2.1}$ % 05/17/2024

*Marked on log included with analysis.

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

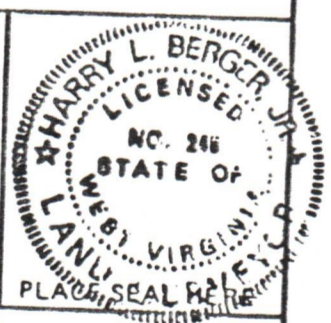
***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.



REFERENCE POINTS
 PROPOSED LOCATION TO:
 3' STK. SET - N 42° 31' E - 300'
 3' STK. SET - S 44° 54' W - 189.43'

11-25, 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)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JULY 11, 19 84
 OPERATOR'S WELL NO 1010
 API WELL NO. 47-013-3803
 STATE WV COUNTY Calhoun PERMIT EXP. 10/10/86

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS.") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1242.98' WATER SHED LITTLE BEAR FORK
 DISTRICT SHERMAN COUNTY CALHOUN
 QUADRANGLE 7 1/2' MILLSTONE (ARNOLDSBURG S.W.)
 SURFACE OWNER WOODROW SCHOOLCRAFT ACREAGE 102
 OIL & GAS ROYALTY OWNER J.W. SCHOOLCRAFT, ET AL. LEASE ACREAGE 102

05/17/2024

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