



1) Date: August 3, 19 83
2) Operator's Well No. 823
3) API Well No. 47 013 3647
State County Permit

DRILLING CONTRACTOR: UNKNOWN AT THIS TIME

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

- 4) WELL TYPE: A Oil / Gas X
B (If "Gas", Production X)
5) LOCATION: Elevation: 926.45' Undergound storage / Deep / Shallow X
District: Sheridan Watershed: Little Kanawha River
County: Calhoun Quadrangle: 7.5' Annamoriah
6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. 11) DESIGNATED AGENT Harry L. Berger, Jr.
Address 360 Madison Ave., Fifth Floor Address 710 Virginia St., E.
New York, New York 10017 Charleston, W.V. 25301
7) OIL & GAS ROYALTY OWNER Victor Hamilton, et al
Address Box 236 Grantsville, W.V. 26147
Acreage 315
8) SURFACE OWNER Westvaco Corporation
Address #2 Ferguson Dr. Parkersburg, W.V. 26101
Acreage 315
9) FIELD SALE (IF MADE) TO:
Address
10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Deo Mace
Address Rt. 1 Box 5 Sandridge, W.V. 25274
12) COAL OPERATOR UNOPERATED
Address
13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name UNKNOWN
Address
Name
Address
14) COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address
15) PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify)
16) GEOLOGICAL TARGET FORMATION, BROWN SHALE
17) Estimated depth of completed well, 5125 feet
18) Approximate water strata depths: Fresh, 0 feet; salt, feet.
19) Approximate coal seam depths: Is coal being mined in the area? Yes / No X

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OIL AND GAS DIVISION DEPT. OF MINES

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS. Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, Liners.

- 1) 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.
[X] The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
2) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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 [X]
3) Required Copies (See reverse side.)
4) 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.
Notary: [Signature] My Commission Expires May 10, 1989
Signed: Harry L. Berger, Jr. Its: Designated Agent 05/17/2024

OFFICE USE ONLY DRILLING PERMIT

Permit number 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. In addition, the well operator or his contractor shall notify the District Oil and Gas Inspector 24 hours before actual permitted work has commenced.
Permit expires unless drilling is commenced prior to that date and prosecuted with due diligence.
Bond: Agent: Plat: Casing Fee

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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.

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.

05/17/2024

**WAIVER**

The undersigned coal operator \_\_\_\_\_/ owner \_\_\_\_\_/ lessee \_\_\_\_\_/ of the coal under this well location 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.

1) Date: August 3, 19 83  
2) Operator's Well No. 823  
3) API Well No. 47 013 3647  
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

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

(i) Name Westvaco Corp.  
Address #2 Ferguson Dr.  
Parkersburg, W.V. 26101

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

(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_

(iii) Name \_\_\_\_\_  
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.

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.

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

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

this 3 day of August, 19 83.  
My Commission expires May 10, 19 89.

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



SEP 28 1983

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.

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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E ( S ) A N D O T H E R C O N T I N U I N G C O N T R A C T ( 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</u>	<u>Page</u>
Victor Hamilton, Agent & POA for Nellie Hamilton, estate	Sterling Drilling and Production Co., Inc.	1/8	085	409
Leonard B. Marshall, Agent & POA for R.M. Marshall, estate				



1) Date: September 8, 19 83  
 2) Operator's Well No. 823  
 3) API Well No. 47 013 3647  
 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 X / Gas X /  
 B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 926.45' Watershed: Little Kanawha River  
 District: Sheridan County: Calhoun Quadrangle: 7.5' Annamoriah
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 360 Madison Ave. Fifth 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, 5125 feet  
 13) Approximate strata depths: Fresh,        feet; salt,        feet.  
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes        / No X

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DEPT. OF MINES

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		350'	350'	To Surface	By Date 12-05
Coal									Sizes
Intermediate	7"	J-55	20#	X		2075'	2075'	100 sks	
Production	4 1/2	ERW	10.5#	X			5125'	250 sks	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-013-3647 Date October 19 19 83

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 19, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>B/B</u>	Agent: <u>OK</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>5550</u>
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[Signature]  
Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) LOCATION: ... 2) WELL OPERATOR: ... 3) OIL & GAS INSPECTOR TO BE NOTIFIED: ... 4) PROPOSED WELL WORK: ... 5) APPROXIMATE DEPTH OF COMPLETED WELL: ... 6) APPROXIMATE DEPTH OF PROPOSED WELL: ...

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: \_\_\_\_\_

05/17/2024



1) Date: September 8, 19 83  
 2) Operator's Well No. 823  
 3) API Well No. 47 State 013 County 3647 Permit 83647

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: 926.45' Watershed: Little Kanawha River  
 District: Sheridan County: Calhoun Quadrangle: 7.5' Annamoriah
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. 7) DESIGNATED AGENT Harry L. Berger, Jr.  
 Address 360 Madison Ave. Fifth 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, 5125 feet  
 13) Approximate strata 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>350'</u>	<u>350'</u>	<u>To Surface</u>	<u>By 10/19/83</u>
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2075'</u>	<u>2075'</u>	<u>100 sks</u>	
Production	<u>4 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5125'</u>	<u>250 sks</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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.

October 19 83

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 the filing of the Application.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ of the coal under this well location 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: \_\_\_\_\_  
 05/17/2024  
 Coal Owner



DATE 7-14-83

WELL NO. Hamilton Agent # 823

State of West Virginia

API NO. 47-013-3647

Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. Co WELL OPERATOR Sterling Drilling & Pr

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

Telephone (212) 949-9100 Telephone (304) 342-0121

LANDOWNER Westvaco Corp. 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: 7-18-83

(Date)

Jarrett Newton  
(SCD Agent)

ACCESS ROAD

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LOCATION

Structure \_\_\_\_\_ (A) Structure \_\_\_\_\_ (1)

Spacing \_\_\_\_\_ Material \_\_\_\_\_

Page Ref. Manual \_\_\_\_\_ OIL & GAS DIVISION DEPT. OF MINES Page Ref. Manual \_\_\_\_\_

Structure Drainage Ditches (B) Structure Rip-Rap (2)

Spacing Roadside Material Rock

Page Ref. Manual 2-12 Page Ref. Manual 2-9

Structure Cross Ditches (C) Structure \_\_\_\_\_ (3)

Spacing 135' for 5% grade Material \_\_\_\_\_

Page Ref. Manual 2-4 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 600 lbs/acre (10-20-20 or equivalent)

Fertilizer 600 lbs/acre (10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed\* Ky-31 40 lbs/acre

Seed\* Ky-31 20 lbs/acre

Ladino Clover 4 lbs/acre

Orchardgrass 10 lbs/acre

\_\_\_\_\_ lbs/acre

Ladino Clover 4 lbs/acre

05/17/2024

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

Moore's Well Services, Inc.

PLAN PREPARED BY Richard X. Campbell

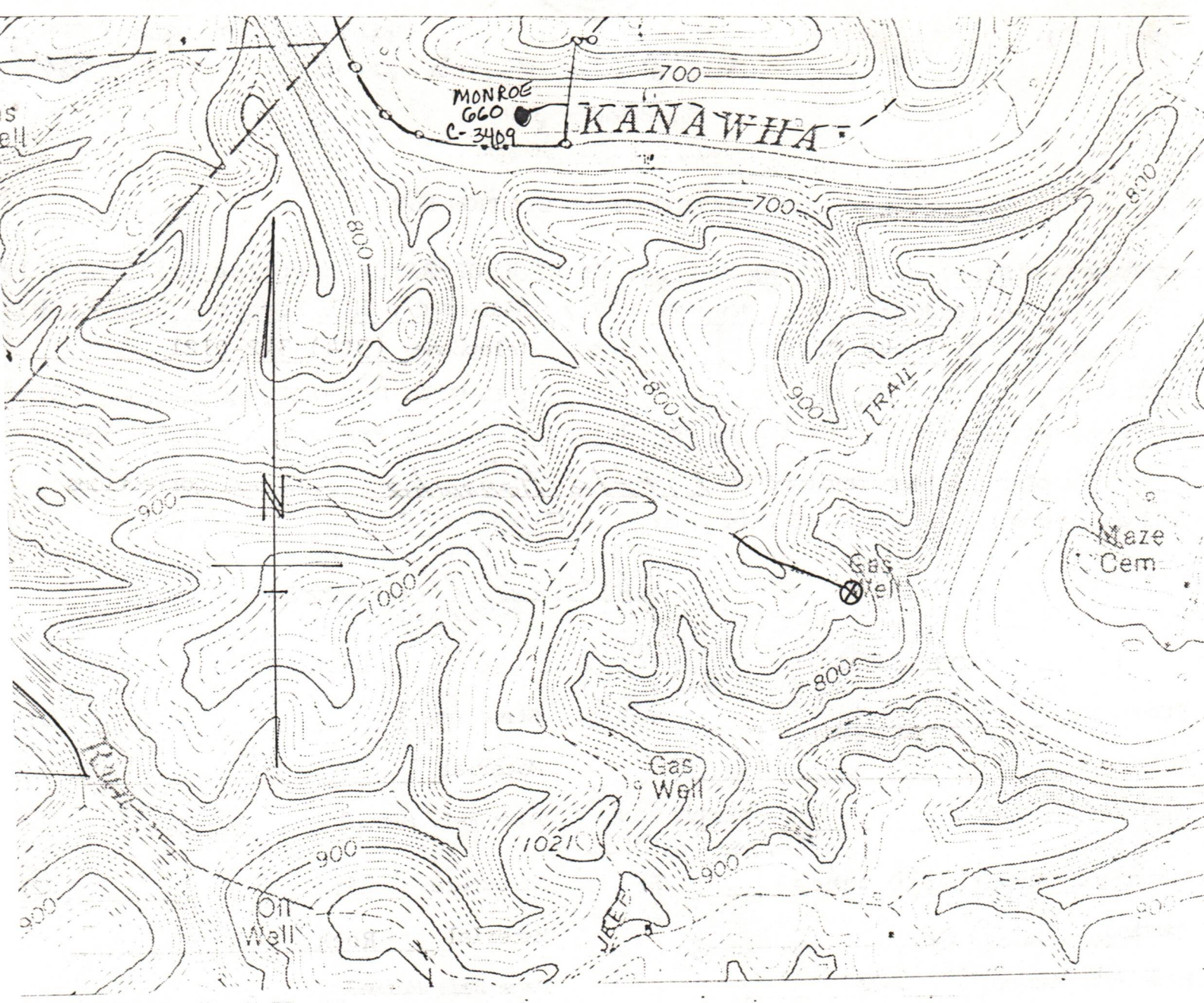
ADDRESS Route 1 Box 30

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.






821 823  
822 824  
825

No. 173702  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		WESTVACO CORP.	
STREET AND NO.		42 FURBUSHON DR.	
P.O., STATE AND ZIP CODE		HARRISBURG, W.V. 26101	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	€	
	SPECIAL DELIVERY	€	
	RESTRICTED DELIVERY	€	
	OPTIONAL SERVICES	SHOW TO WHOM AND DATE DELIVERED	€
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	€
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	€
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	€
RETURN RECEIPT SERVICE			
TOTAL POSTAGE AND FEES		\$2.74	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

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OIL & GAS DIVISION  
DEPT. OF MINES

013-B447

05/17/2024



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NOV 5 - 1984

IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date Oct. 19, 1984  
Operator's  
Well No. 823  
Farm Victor Hamilton  
API No. 47 - 013 - 3647

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: 926.45 Watershed Little Kanawha River  
District: Sheridan County Calhoun Quadrangle 7 1/2' Annamoriah

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 Westvaco

ADDRESS Box 577, Rupert, WV 25984

MINERAL RIGHTS OWNER Victor Hamilton

ADDRESS Box 236, Grantsville, WV 26147

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt 1, Box 5 Sandridge, WV

PERMIT ISSUED 10/19/83 25274

DRILLING COMMENCED 9/4/84

DRILLING COMPLETED 9/10/84

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	353'	353'	to surface
8 5/8			
7	2104'	2104'	175 sx
5 1/2			
4 1/2		5132	280 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5125 feet

Depth of completed well 5165 feet Rotary x / Cable Tools

Water strata depth: Fresh 232 feet; Salt 1250 feet

Coal seam depths: ---- Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2345'-4924' feet

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

Final open flow 253 Mcf/d Final open flow    Bbl/d

Time of open flow between initial and final tests 68 hours 05/17/2024

Static rock pressure 875 psig (surface measurement) after 96 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

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

Perforations: 84 holes 2345' - 4924'  
 Treatment: 3000 gal 15% HCl; 4645 MSCF N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all f and salt water, coal, oil and
Sandstone & Shale			0	1233	all measurements 10' KB
Salt Sand			1233	1315	
Sand & Shale			1315	1590	
Salt Sand			1590	1638	
Shale			1638	1670	
Maxon			1670	1786	
Little Lime & Shale			1786	1807	
Pencil Cave			1807	1813	
Big Lime			1813	1935	
Big Injun			1935	1964	
Siltstone & Shale			1964	2321	
Sunbury Shale			2321	2334	
Berea			2334	2338	
Sandy Siltstone & Shale			2338	2687	
Gordon			2687	2694	
Grey Silty Shale			2684	4260	
Brown Shale			4260	4300	
Grey Silty Shale			4300	4762	
Grey Siltstone			4762	4795	
Grey Shale			4795	5165	TD 5165' KB

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc. 05/17/2024  
 Well Operator

By:

*Harry J. Berga Jr.*

Date:

Oct. 19, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic

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

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OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3647

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

Company Sterling

Address \_\_\_\_\_

Farm Hamilton

Well No. 823

District Sheridan County Calhoun

Drilling commenced 9-4-84

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 7

Remarks: 353' of 9 5/8" casing, 135 sks cement, Dowell 9-5-84 cement circulated

9-5-84  
DATE

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

2/16/82

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: \_\_\_\_\_

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



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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  
November 19, 1984

COMPANY Sterling Drilling & Prod. Co.

PERMIT NO 013-3647

710 Virginia Street, East

FARM & WELL NO Westvaco #823

Charleston, West Virginia 25301

DIST. & COUNTY Sheridan/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 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 R. W. Mace

DATE 4-2-85

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. ...

Administrator-Oil & Gas Division

April 10, 1985

DATE

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

1.0 API well number: (If not assigned, leave blank. 14 digits.) 47 - 013 - 3647 -

2.0 Type of determination being sought: (Use the codes found on the front of this form.)  
Section of NGPA 107 Category 100

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 5165 feet

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)  
Name Sterling Drilling and Production Co.  
Address 710 Virginia St. East, Arcade Building  
City Charleston, WV State WV Zip Code 25301

5.0 Location of this well: (Complete (a) or (b).)  
(a) For onshore wells (35 letters maximum for field name.)  
Field Name Sheridan District  
County Calhoun State WV

(b) For OCS wells:  
Area Name \_\_\_\_\_ Block Number \_\_\_\_\_  
Date of Lease: \_\_\_\_\_  
Mo. Day Yr. OCS Lease Number \_\_\_\_\_

(c) Name and identification number of this well: (35 letters and digits maximum.)  
Hamilton #823

(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.)  
Name UNDEDICATED Buyer Code \_\_\_\_\_

(b) Date of the contract: \_\_\_\_\_  
Mo. Day Yr.

(c) Estimated total annual production from the well: 7.5 Million Cubic Feet

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	(a) Base Price	(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.)	S/MMBTU <u>5.866</u>	_____	_____	_____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU <u>5.866</u>	_____	_____	_____

9.0 Person responsible for this application:

Name Harry L. Berger, Jr. Designated Agent  
Signature *Harry L. Berger, Jr.* Title \_\_\_\_\_  
Date Application is Completed Oct. 19, 1984 Phone Number 304-342-0121

Agency Use Only  
Date Received by Juris. Agency NOV - 1 1984  
Date Received by FERC \_\_\_\_\_

05/17/2024



NOV 29 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

47-013-3647

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Oct. 19, 19 84

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

841101 - 107-013-3647

Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No.

Date of Contract  
(Month, day and year)

Designated Agent: Harry L. Berger, Jr.

First Purchaser: UNDEDICATED

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

Address:  
(Street or P.O. Box)

(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

Signature:

*Harry L. Berger, Jr.*

(Title)

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

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DEPT. OF MINES

Date Received

Determination Date

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 926.45

WELL OPERATOR Sterling Drilling and Production Watershed Little Kanawha River Co., Inc. ADDRESS 710 Virginia St., East Charleston, WV 25301

Dist. Sheridan County Calhoun Quad. 7 1/2' Annamrh

Gas Purchase Contract No.

GAS PURCHASER UNDEDICATED

Meter Chart Code

ADDRESS

Date of Contract

\* \* \* \* \*

Date surface drilling began: 9/4/84

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 x 5165) + 459.67 = 558 . X = 1 / 53.34 x 558 = 10000336

Pf = .875 x 2.7183 .0000336 x 3635 x .690 x 1.07 = 958 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)(1) or (3)(11)(A) has been filed, or as indicated by the report described in subparagraph (3)(11)(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.

Handwritten signature of Harry L. Berger, Jr.

STATE OF WEST VIRGINIA

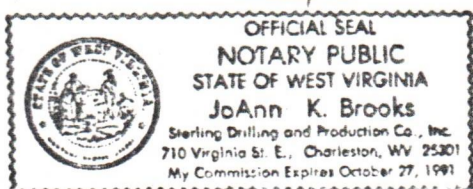
COUNTY OF Kanawha, TO-WIT:

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 24 day of October, 1984, has acknowledged the same before me, in my county aforesaid.

05/17/2024

Given under my hand and official seal this 24 day of October, 1984. My term of office expires on the 29 day of October, 1991.

(NOTARIAL SEAL)



Handwritten signature of JoAnn K Brooks, Notary Public

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

Operator: Sterling Drilling & Production Co., Inc. Agent: H.L. Berger  
 Type Determination being sought - 107 (Devonian Shale)  
 API Well No.: 47-013-3647 Well Name: Hamilton #823  
 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 = 180 \* API Units
2. Remarks:

*Gamma Ray scale = 0 → 200 API Units*

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

1. GR Value = 180 \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{180} \text{ *)} = \underline{126} \text{ API Units}$

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***		
2339'	5150'		

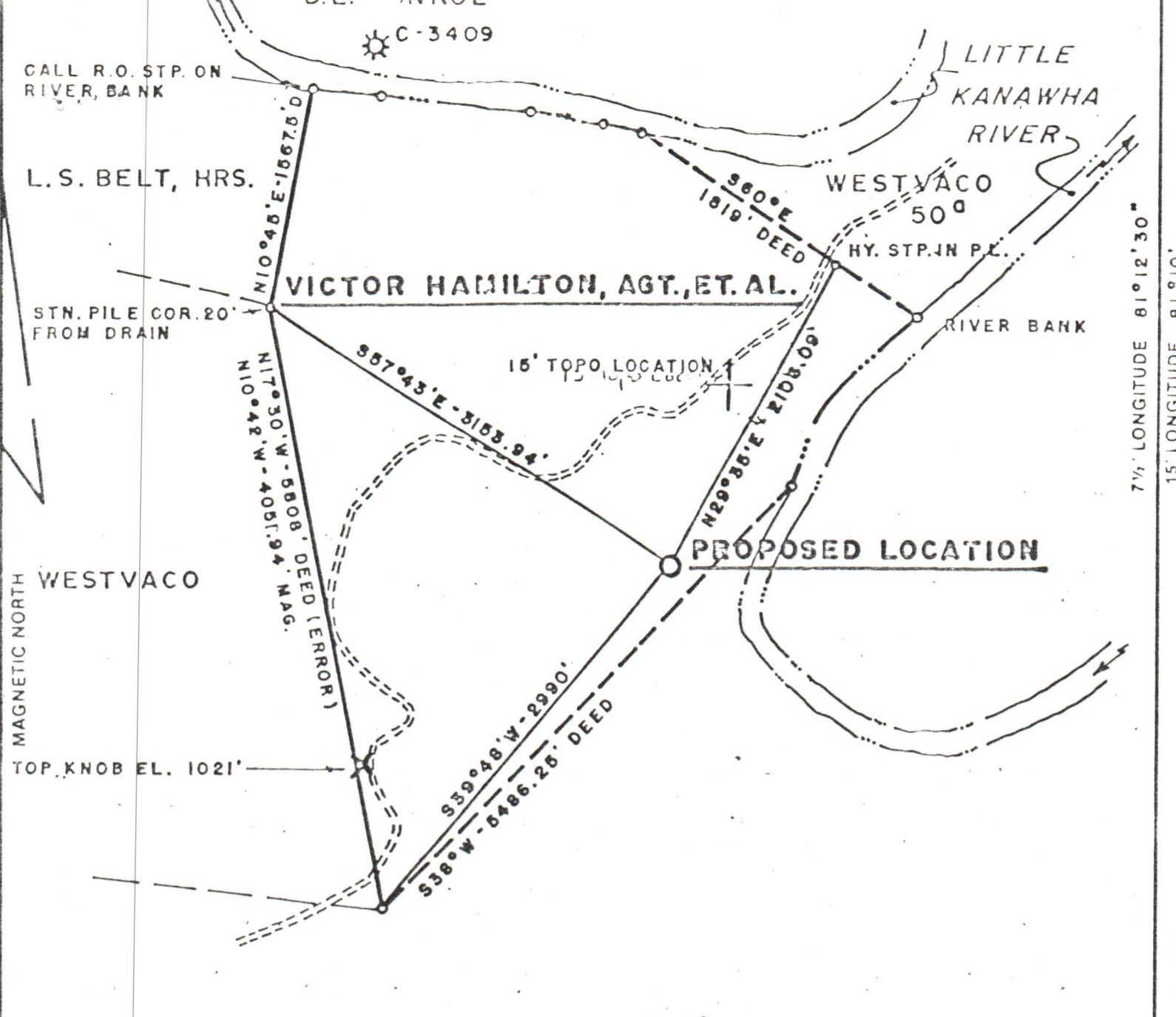
Total Devonian Interval 2811'

Total Less Than 0.7 (Shale Base) 58'

% 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.

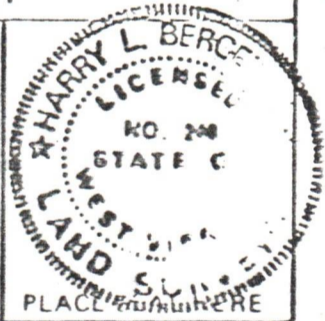


N. B. H-26, PG. 1 H-25, PG. 35 H-24, PG. 25

FILE NO 043-007 NO. 3  
 MAP NO 58-A  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. DATA TOP KNOB EL. 1021' SHOWN

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. 246



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



DATE AUGUST 3, 19 83  
 OPERATOR'S WELL NO. 828  
 API WELL NO. EXP. 10/19/85  
47-013-3647  
 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 926.48' WATERSHED LITTLE KANAWHA RIVER  
 DISTRICT SHERIDAN COUNTY CALHOUN  
 QUADRANGLE 7 1/2' ANNEBORIAN (ARNOLDSBURG N.W.)  
 SURFACE OWNER WESTVACO CORP. ACREAGE 316  
 OIL & GAS ROYALTY OWNER VICTOR HAMILTON, AGT, ET. AL. LEASE ACREAGE 316  
 LEASE NO 043-007

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

05/17/2024

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 5125'  
 OPERATOR STERLING DRILLING & PRODUCTION CO INC AGENT HARRY L. BERGER  
 ADDRESS 360 MADISON AVE 5TH FLOOR NEW YORK, N.Y. 10017 ADDRESS 710 VIRGINIA ST. E. CHARLESTON, W.V. 25301