



1) Date: ~~XXXX~~ Sept. 1, 19 83  
 2) Operator's Well No. 88 843  
 3) API Well No. 47 013 3645  
 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: 1083.96' Watershed: Laurel Shoal Run  
 District: Lee County: Calhoun Quadrangle: 7.5' Arnoldsburg
- 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. 25300
- 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, 5400 feet
- 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes  / No

RECEIVED  
 SEP 28 1983  
 OIL & GAS DIVISION  
 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									
Fresh water	9 5/8	LS	33#	X		350'	350'	To Surface	Kinds <i>By Calc 1505</i>
Coal									Sizes
Intermediate	7"	J-55	20#	X		2290'	2290'	100 sks	
Production	4 1/2	ERW	10.5#	X			5400'	250 sks	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-013-3645 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>BB</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.

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

File  
 12/08/2023



OFFICE USE ONLY

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

1) LOCATION: District: Lee County: 100-000-0000  
 Elevation: 1000.00  
 Well No.: 100-000-0000  
 State: West Virginia  
 County: Boone  
 District: Lee  
 2) WELL OPERATOR: Name: [Redacted]  
 Address: [Redacted]  
 3) DRILLING CONTRACTOR: Name: [Redacted]  
 Address: [Redacted]  
 4) PROPOSED WELL WORK: Drill depth: [Redacted]  
 Perform new formation: [Redacted]  
 Plug out old formation: [Redacted]  
 Other physical change in well (specify): [Redacted]  
 5) GEOLOGIC TARGET FORMATION: [Redacted]  
 6) ESTIMATED DEPTH OF COMPLETED WELL: [Redacted]  
 7) APPROXIMATE TRAIL DEPTH: [Redacted]  
 8) APPROXIMATE COAL SEAM DEPTH: [Redacted]  
 9) CASING AND TUBING PROGRAM: [Redacted]

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	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

Reason: \_\_\_\_\_  
 Reason: \_\_\_\_\_

Bond	Agent	Drill	Casing	Loc
[Signature]	[Signature]	[Signature]	[Signature]	[Signature]



1) Date: September 1, 19 83  
 2) Operator's Well No. 843  
 3) API Well No. 47 State 013 County 3645 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 / Underground storage          / Deep          / Shallow X)
- 5) LOCATION: Elevation: 1083.95' Watershed: Laurel Shoal Run  
 District: Lee County: Calhoun Quadrange: 7.5' Arnoldsburg
- 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 Bob Morgan, et al  
 Address General Delivery  
Grantsville, W.V. 26147  
 Acreage 122
- 8) SURFACE OWNER Charles A. Newhart  
 Address P.O. Box 351  
Williamstown, W.V. 26187  
 Acreage 121.67
- 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
- 11) COAL OPERATOR UNOPERATED  
 Address
- 12) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name UNKNOWN  
 Address
- 13) COAL LESSEE WITH DECLARATION ON RECORD:  
 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, 5400 feet
- 18) Approximate water strata depths: Fresh,          feet; salt,          feet.
- 19) Approximate coal seam depths: 0 Is coal being mined in the area? Yes          / No X

RECEIVED  
SEP 28 1983  
OIL & GAS DIVISION  
DEPT. OF MINES

20) 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		350'	350'	To Surface	Kinds
Coal									
Intermediate	7"	J-55	20#	X		2290'	2290'	100 sks	Sizes
Production	4 1/2	ERW	10.5#	X			5400'	250 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

- 21) 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.)
- 22) 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   
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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: David M. Gillespie  
 My Commission Expires May 10, 1989
- Signed: Harry L. Berger Jr  
 Its: Designated Agent 12/08/2023

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. (Refer to No. 10) 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.)

Permit expires          unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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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.

12/08/2023

**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 \_\_\_\_\_



1) Date: XXXX Sept. 1, 19 83  
 2) Operator's Well No. WV 843  
 3) API Well No. 47 013 3645  
 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: 1083.96' Watershed: Laurel Shoal Run  
 District: Lee County: Calhoun Quadrangle: 7.5' Arnoldsburg
- 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. 25300
- 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, 5400 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>		
Coal									Sizes	
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2290'</u>	<u>2290'</u>	<u>100 sks</u>		
Production	<u>4 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5400'</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 \_\_\_\_\_

12/08/2023  
Coal Owner



IV-9  
(Rev 8-81)

DATE 9.6.83

WELL NO. Morgan # 843

State of West Virginia API NO. 47-013-3645

Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

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

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

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

LANDOWNER Charles A. Newhart 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: 9-9-83

(Date)

Jarrett Newton  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure \_\_\_\_\_ (A) Structure Diversion Ditch (1)

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

Page Ref. Manual \_\_\_\_\_ Page Ref. Manual 2-12

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 150' spacing for 3.5" 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\* Lg-31 40 lbs/acre

Seed\* Lg-31 40 lbs/acre

Ladino Clover 4 lbs/acre

Ladino Clover 4 lbs/acre

lbs/acre

lbs/acre

12/08/2023

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

Moore's Well Services, Inc.

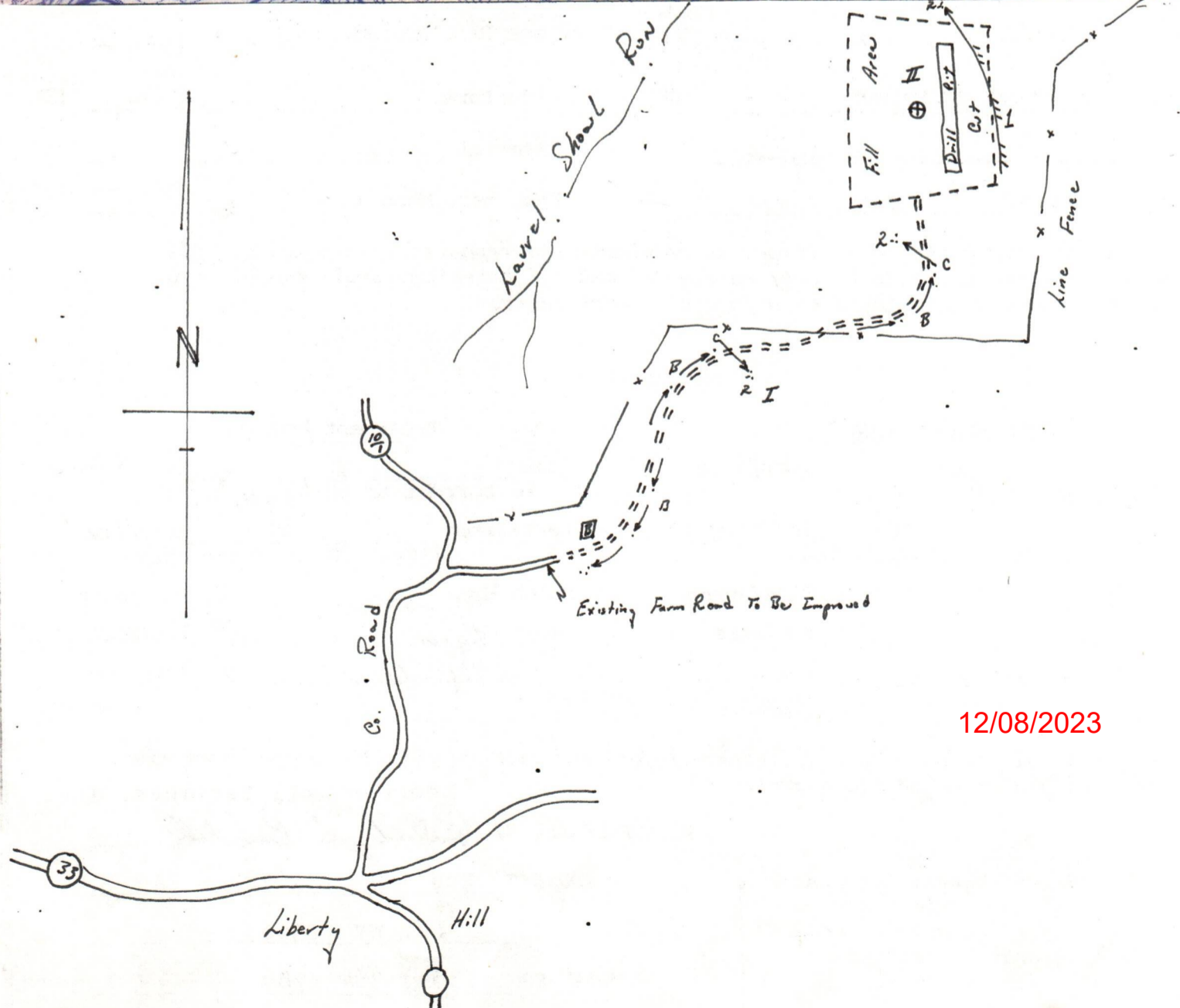
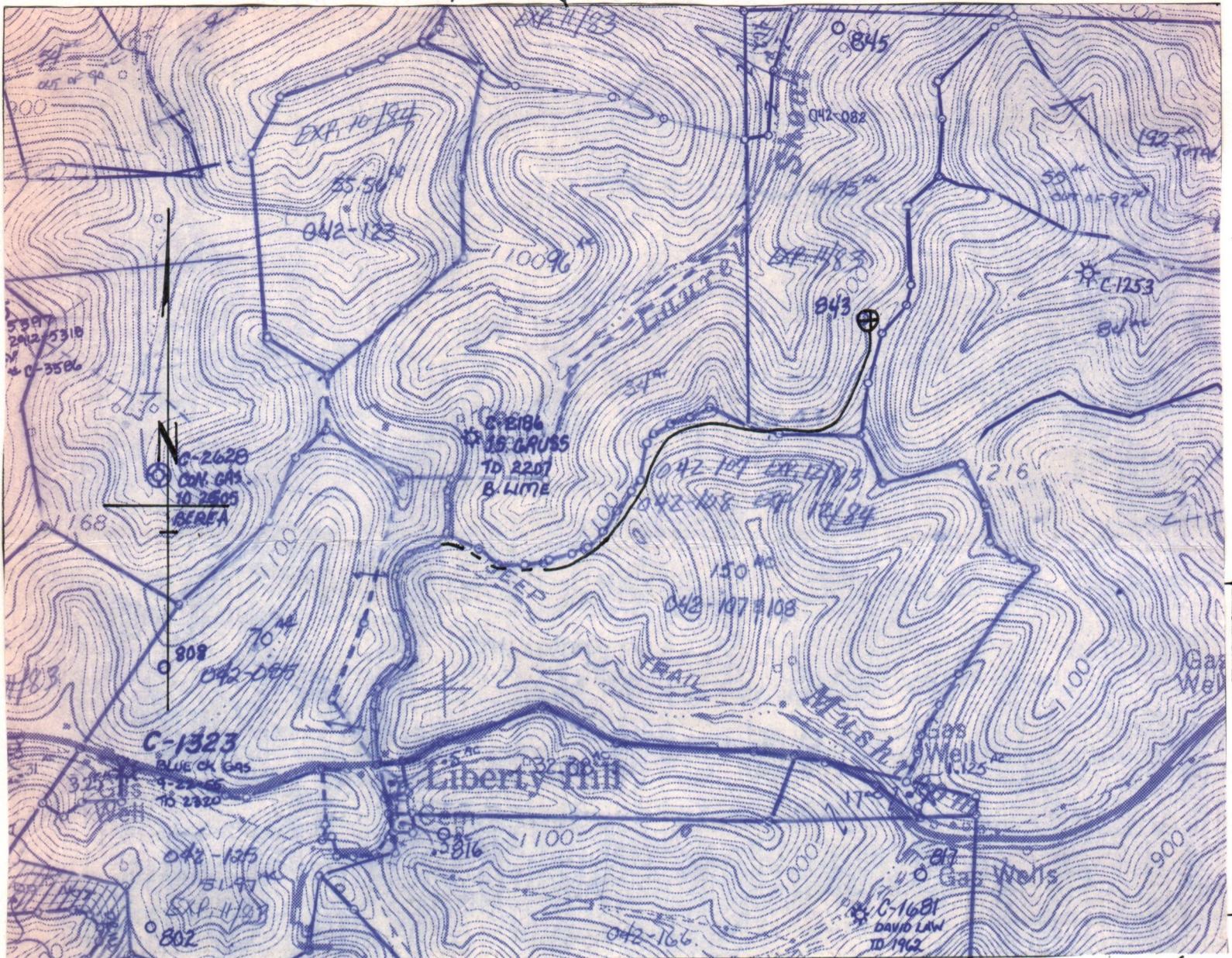
PLAN PREPARED BY Richard A. Campbell

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.



12/08/2023

1) Date: September 1, 19 83  
2) Operator's Well No. 843  
3) API Well No. 47 013 3645 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 Charles A. Newhart  
Address P.O. Box 351  
Williamstown, W.V. 26187  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

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

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name UNKNOWN  
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.

this 1 day of Sept., 19 83.  
My commission expires May 10, 19 89.

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

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

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

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.



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 § 22-4-3a 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 reverse 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>
Owen Morgan	Sterling Drilling and Production Co., Inc.	1/8	083/639
C.R. Newhart			
Quinton Morgan			
Bob Morgan			
Robert Stephens			
Imogene Campbell			
Dolly Morgan			
Lenova Davis			
Arthur Morgan			

**RECEIVED**

SEP 28 1983



1) Date: 27th Sept. 1, 19 83  
 2) Operator's Well No. 83 843  
 3) API Well No. 47 State 013 County 3645 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: 1083.96' Watershed: Laurel Shoal Run  
 District: Lee County: Calhoun Quadrangle: 7.5' Arnoldsburg
- 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 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, 5400 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

**RECEIVED**  
 SEP 28 1983  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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>3 5/8</u>	<u>LS</u>	<u>33#</u>	<u>X</u>		<u>350'</u>	<u>350'</u>	<u>To Surface</u>	
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2290'</u>	<u>2290'</u>	<u>100 sks</u>	
Production	<u>1 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5400'</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.

47-013-3645

October 19

83

**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 \_\_\_\_\_

Charles R. Newhart Date: 9-19-83  
 (Signature)  
Audena E. Newhart Date: 9-19-83  
 (Signature)  
445 Highland Ave  
Williamstown, W. Va.

**12/08/2023**  
 Surface Owner

**INSTRUCTIONS TO SURFACE OWNERS  
AND  
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT  
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

**NOTE: You are not required to file any comment at all.**

**Where to file comments and obtain additional information:**

Administrator of the Office of Oil and Gas  
West Virginia Department of Mines  
1615 Washington Street East  
Charleston, West Virginia 25311  
(304) 348-2057

**Who may file comments?** If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

**Time limits for comments.** The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

**Methods for filing comments.** Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- “(1) The proposed well work will constitute a hazard to the safety of persons; or
- “(2) The plan for soil erosion and sediment control is not adequate or effective; or
- “(3) Damage would occur to publicly owned lands or resources; or
- “(4) The proposed well work fails to protect fresh water sources or supplies.”

**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**List of Water Testing Laboratories.** The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

12/08/2008

RECEIVED

SEP 10 1984



IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
DEPT. OF MINES State of West Virginia

Department of Mines  
Oil and Gas Division

Date August 8, 1984  
Operator's  
Well No. 843  
Farm Morgan  
API No. 47 - 013 - 3645

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: 1083.96 Watershed Laurel Shoal Run  
District: Lee County Calhoun Quadrangle Arnoldsburg 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.

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

DESIGNATED AGENT Harry L. Berger, Jr.

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

SURFACE OWNER Charles A. Newhart

ADDRESS P.O. Box 351, Williamstown, WV 26187

MINERAL RIGHTS OWNER Bob Morgan, et al.

ADDRESS General Delivery, Grantsville, WV 26147

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

ADDRESS Rt.1 Box 5, Sandridge, WV 25274

PERMIT ISSUED October 19, 1983

DRILLING COMMENCED April 16, 1984

DRILLING COMPLETED April 22, 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	370	370	125 sks.
8 5/8			
7	2314	2314	175 sks.
5 1/2			
4 1/2		5388'	270 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5400 feet

Depth of completed well 5422' feet Rotary X / Cable Tools

Water strata depth: Fresh 71 feet; Salt 1165, 1750 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3450-5277 feet

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

Final open flow 231 Mcf/d Final open flow show Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 800 psig (surface measurement) after 48 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)

CHL - 3645

12/08/2023

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

1st Stage: 22 holes 4825'-5277'  
2nd Stage: 25 holes 4230'-4681'  
3rd Stage: 25 holes 3450'-4074'

Treatment

1st Stage: 750 gals. 15% HCl; 1,584 MSCF N<sub>2</sub>  
2nd Stage: 750 gals. 15% HCl; 1,536 MSCF N<sub>2</sub>  
3rd Stage: 750 gals. 15% HCl; 1,584 MSCF N<sub>2</sub>

WELL LOG  
# 843

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	10	
Siltstone and Shale			10	997	Fresh water @ 71'
Sandstone			997	1092	
Shale			1092	1148	
Sandstone			1148	1330	Salt water @ 1165'
Shale break			1330	1340	
Sandstone			1340	1386	
Shale			1386	1691	
Salt Sand			1691	1860	Salt water @ 1750'
Shale			1860	1898	
Maxon			1898	1929	
Shale			1929	1940	
Little Lime			1940	1966	
Blue Monday			1966	1973	
Pencil Cave			1973	1986	
Big Lime			1986	2100	
Big Injun			2100	2146	
Siltstone and Shale			2146	2468	
Sunbury Shale			2468	2488	
Siltstone and Shale			2488	2936	
Shale			2936	4838	Gas Shows 3450'-4074'
Siltstone			4838	4864	4230'-4681'
Shale			4864	5020	4825'-5277'
Siltstone			5020	5077	
Shale			5077	5422	
Total Depth				5422.	

(Attach separate sheets as necessary)

Sterling Drilling And Production Co., Inc.

Well Operator

12/08/2023

By:

*Harry J. Berger*

Date:

8-30-84

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

APR 24 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 13-3645

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

Company Stirling

Address \_\_\_\_\_

Farm Morgan

Well No. 843

District See County Cal

Drilling commenced 4-17-84

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 Charlie Moore 2

Remarks:  
370' 9 3/8" casing, 125 SKS cement, Halibutons. 4-17-84  
Filled from top - no circulation.

4-17-84  
DATE

D. W. Moore  
12/08/2023  
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 \_\_\_\_\_

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
Liner	Location	Amount	Packer	Location		
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.

DISTRICT \_\_\_\_\_ 12/08/2023



APR 15 1986

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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
September 24, 1984

10-19-83

COMPANY Sterling Drilling & Prod. Co.  
710 Virginia Street, East  
Charleston, West Virginia 25301

PERMIT NO 013-3645  
FARM & WELL NO Charles A. Newhart #843  
DIST. & COUNTY Lee/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 Duo Mace

DATE 4-12-86

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. L. ...

Administrator-Oil & Gas Division

April 21, 1986

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 - 3645 -

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

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)  
5422 feet

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)  
Sterling Drilling and Production Co. Inc. 018084  
 Name      Seller Code  
710 Virginia St. East, Arcade Building  
 Street  
Charleston, WV 25301  
 City      State      Zip Code

5.0 Location of this well: [Complete (a) or (b).]  
 (a) For onshore wells (35 letters maximum for field name.)  
Lee District Field Name  
Calhoun County  
 State WV  
 (b) For OCS wells:  
 Area Name      Block Number  
 Date of Lease:      OCS Lease Number  
 Mo. Day Yr.

(c) Name and identification number of this well: (35 letters and digits maximum.)  
Morgan 843

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)  
Undedicated  
 Name      Buyer Code

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)  
Undedicated  
 Name      Buyer Code  
 (b) Date of the contract:  
 Mo. Day Yr.

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

	(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>5.834</u>	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU -----	-----	-----	-----
9.0 Person responsible for this application:				

Agency Use Only  
 Date Received by this Agency  
**SEP 10 1984**  
 Date Received by FERC

Harry L. Berger, Jr. Designated Agent  
 Name      Title  
Harry L. Berger Jr Signature  
 Date Application is Completed  
12/08/2023  
304-342-0121 Phone Number

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
 PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
 (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107, or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)

Remarks:

18810193

12/08/2023

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

SEP 27 1984

Date: August 22, 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

840910 - 107 - 013 - 3645

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

Use Above File Number on all  
Communications Relating to This Well

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

First Purchaser: \_\_\_\_\_

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.  
(Print)

Agent  
(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

**APPROVED**

OCT - 3 1984  
12/08/2023

**RECEIVED**

SEP 10 1984

OIL & GAS DIV.  
DEPT. OF MINES

Date Received \_\_\_\_\_

Determination Date \_\_\_\_\_

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.: 47-013-3645 Well Name: Morgan #843  
 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: \_\_\_\_\_

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

1. GR Value = 126 \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (180 *)}} = \underline{126}$  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***		
2500	5428	2928	92

Total Devonian Interval 2928

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) =  $\frac{0.031}{1} \times 100 = \underline{3.1\%}$

12/08/2023

\*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.

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 1083.96'

WELL OPERATOR Sterling Drilling and Production Watershed Laurel Shoal Run  
Co., Inc.

ADDRESS 710 Virginia St., East Dist. Lee County Calhoun Quad. 7 1/2 Arnold's  
Charleston, WV 25301

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

GAS PURCHASER \_\_\_\_\_

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

ADDRESS \_\_\_\_\_

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

\* \* \* \* \*

Date surface drilling began: April 16, 1984

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5422) + 459.67 = 560 \quad x = \frac{1}{53.34} \times 560 = .0000335$$

$$Pf = 800 \times 2.7183 \times .0000335 \times 436.4 \times 1.690 \times 1.09 = 893 \text{ PSIA}$$

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)(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.

Harry L. Berger, Jr.

STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

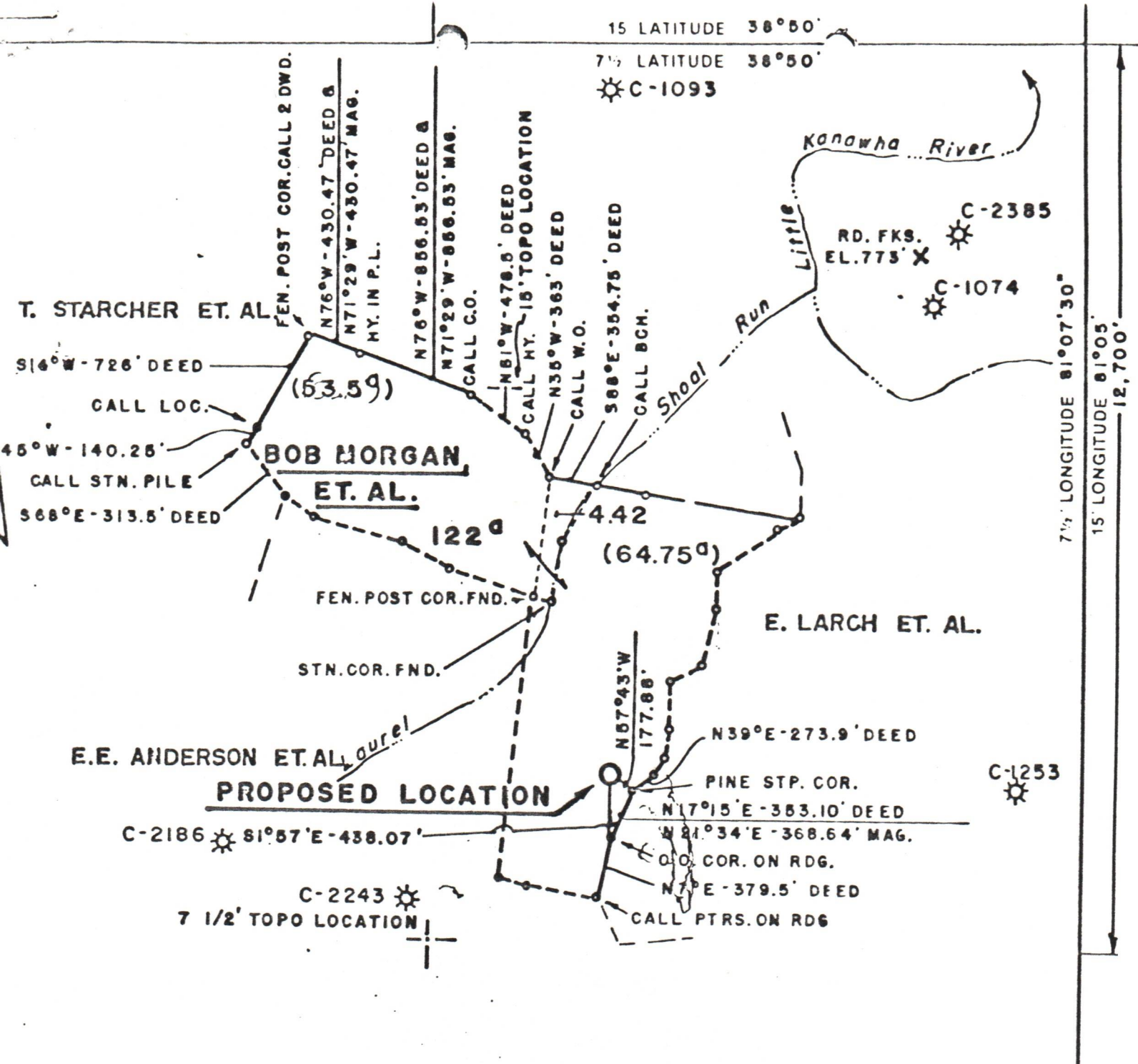
I, JoAnn K Brooks, a Notary Public in and for the state and county aforesaid, do certify that Harry L. Berger, Jr., whose name is signed to the writing above, bearing date the 29 day of August, 1984, has acknowledged the same before me, in my county aforesaid.

12/08/2023

Given under my hand and official seal this 29 day of August, 1984.  
My term of office expires on the 27 day of October, 1991.

(NOTARIAL SEAL)

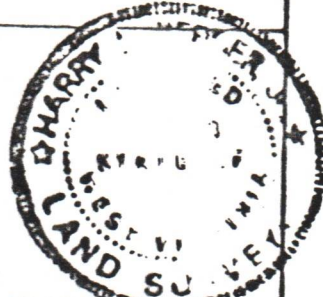
JoAnn K Brooks  
Notary Public



B. N-27, PG. 41 & 49  
 WELL NO 042-082 NO. 1  
 WELP NO 58-C  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF  
 ACCURACY 1:200  
 SOURCE OF  
 ELEVATION U.S.G.S. DATA FKS.  
 ELEVATION SHOWN EL. 773'

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 LLS 246



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

WELL TYPE OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SURFACE   
 LOCATION ELEVATION 1083.98' WATERSHED LAUREL SHOAL RUN  
 DISTRICT LEE COUNTY CALHOUN  
 QUADRANGLE 7 1/2' ARNOLDSBURG (ARNOLDSBURG S.W.)  
 SURFACE OWNER CHARLES A. NEWHART  
 OIL & GAS ROYALTY OWNER BOB MORGAN, ET. AL.  
 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 5400'  
 OPERATOR STERLING DRILLING & PRODUCTION CO INC AGENT HARRY L. BERGER  
 ADDRESS 360 MADISON AVE - 5TH FLOOR

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE AUG. 20, 19 83  
 OPERATOR'S WELL NO 843  
 API WELL NO EXP. 10/19/85  
47 - 013 - 3645  
 STATE COUNTY PERMIT

12/08/2023