



1) Date: April 10, 1984
 2) Operator's Well No. 920
 3) API Well No. 47 - 013 - 3724
 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: 1062.06' Watershed: Mushroom Run of Little Kanawha River
 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. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace
 Address Rt. 1 Box 5
Sandridge, W.V. 25274
- 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME
 Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
 12) Estimated depth of completed well, 5300 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes _____

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 APR 11 1984
 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									Kinds
Fresh water	9 5/8	LS	33#	X		275'	275'	To Surface	NEAT
Coal									Sizes
Intermediate	7"	J-55	20#	X		2490'	2490'	100 sks	
Production	4 1/2	ERW	10.5#	X			5300'	250 sks	Depths set
Tubing								OR AS REQ. BY RULE	
Liners									Perforations: 15.01
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3724 Date May 9, 1984

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 May 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>6659</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) Well No. _____ State _____ County _____

2) Well Name _____

3) Operator's Name _____

4) Date of Application _____

5) Well Location _____

6) Well Operator _____

7) LOCATION: _____

8) OIL & GAS INSPECTOR TO BE NOTIFIED _____

9) DRILLING CONTRACTOR _____

10) PROPOSED WELL WORK _____

11) GEOLOGICAL TARGET FORMATION _____

12) Estimated depth of completed well _____

13) Approximate true depth _____

14) Approximate coal seam depth _____

15) CASING AND LUBING PROGRAM _____

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DEPT. OF MINES & OIL & GAS DIVISION

Casing or Tubing Type	Size	Class	Weight per Ft.	Specifications		Footage Inventory	Cement or Grout	Remarks
				Wall	Joint			
Production	7"	20	22.5	20	20	20	20	20
Intermediate	5 1/2"	20	18.5	20	20	20	20	20
Coal	4"	20	15.5	20	20	20	20	20
Flow water	3 1/2"	20	12.5	20	20	20	20	20
Control	2 1/2"	20	10.5	20	20	20	20	20

OFFICE USE ONLY

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

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

Application received _____ Follow-up inspection(s) _____

Well work started _____ " " _____

Completion of the drilling process _____ " " _____

Well Record received _____ " " _____

Reclamation completed _____ " " _____

OTHER INSPECTIONS

Reason: _____

Reason: _____

12/08/2023



DATE 3-28-84

WELL NO. Wagoner # 920

State of West Virginia

API NO. 47 - 013 - 3724

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 Melva R. Wagoner 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: 3-31-84

(Date)

Garrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure _____ (A)

Structure _____ (1)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

Structure Drainage Ditches (B)

Structure Rip-Rap (2)

Spacing Road side

Material Rock

Page Ref. Manual 2-12

Page Ref. Manual _____

Structure Cross Ditches (C)

Structure _____ (3)

Spacing 150' for 6-10"

Material _____

Page Ref. Manual 2-4 Table 1

Page Ref. Manual _____

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime 2 Tons/acre
or correct to pH 6.5

Lime 2 Tons/acre
or correct to pH 6.5

Fertilizer 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

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Ladino Clover 4 lbs/acre

Ladino Clover 4 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.

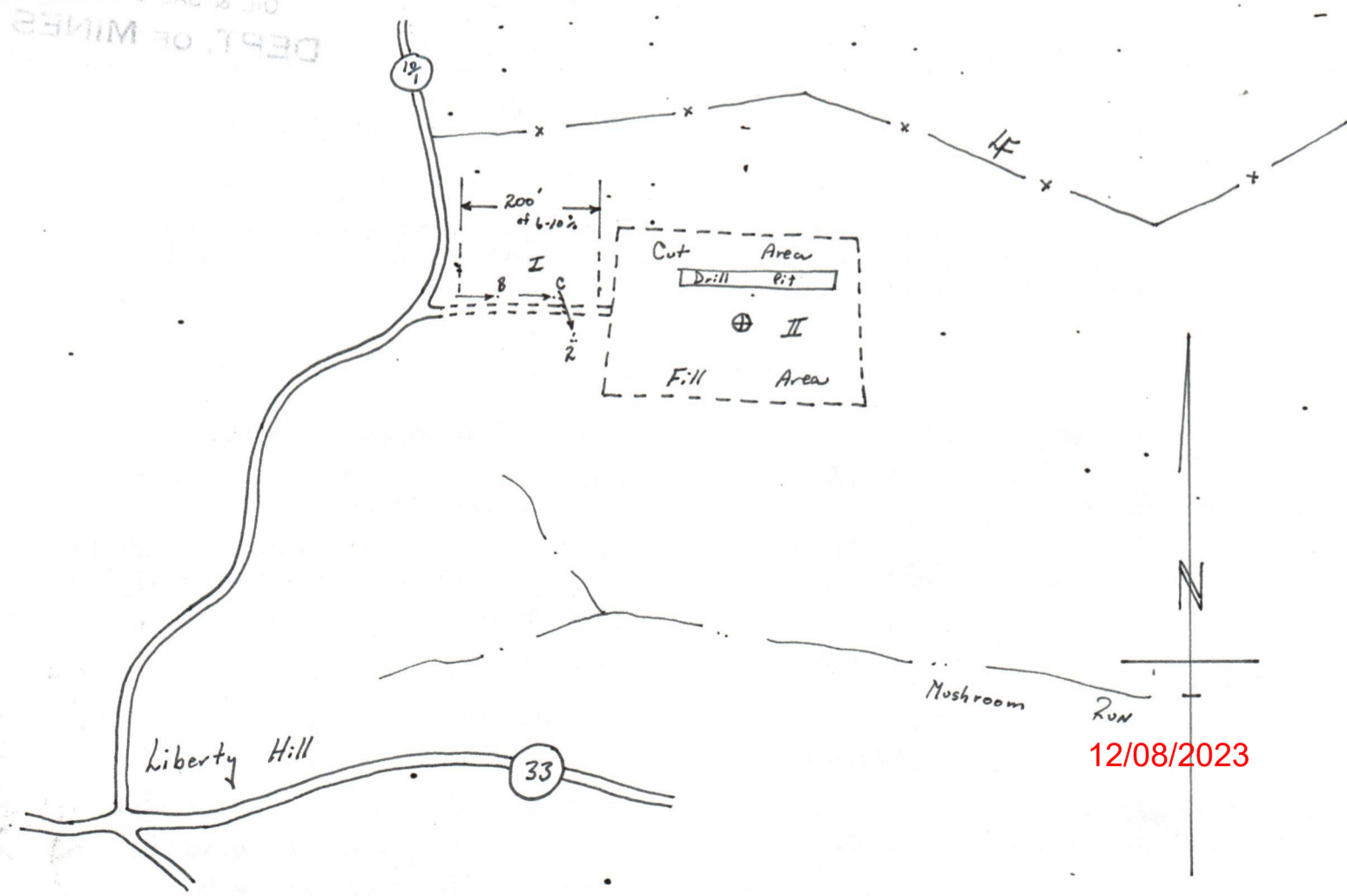
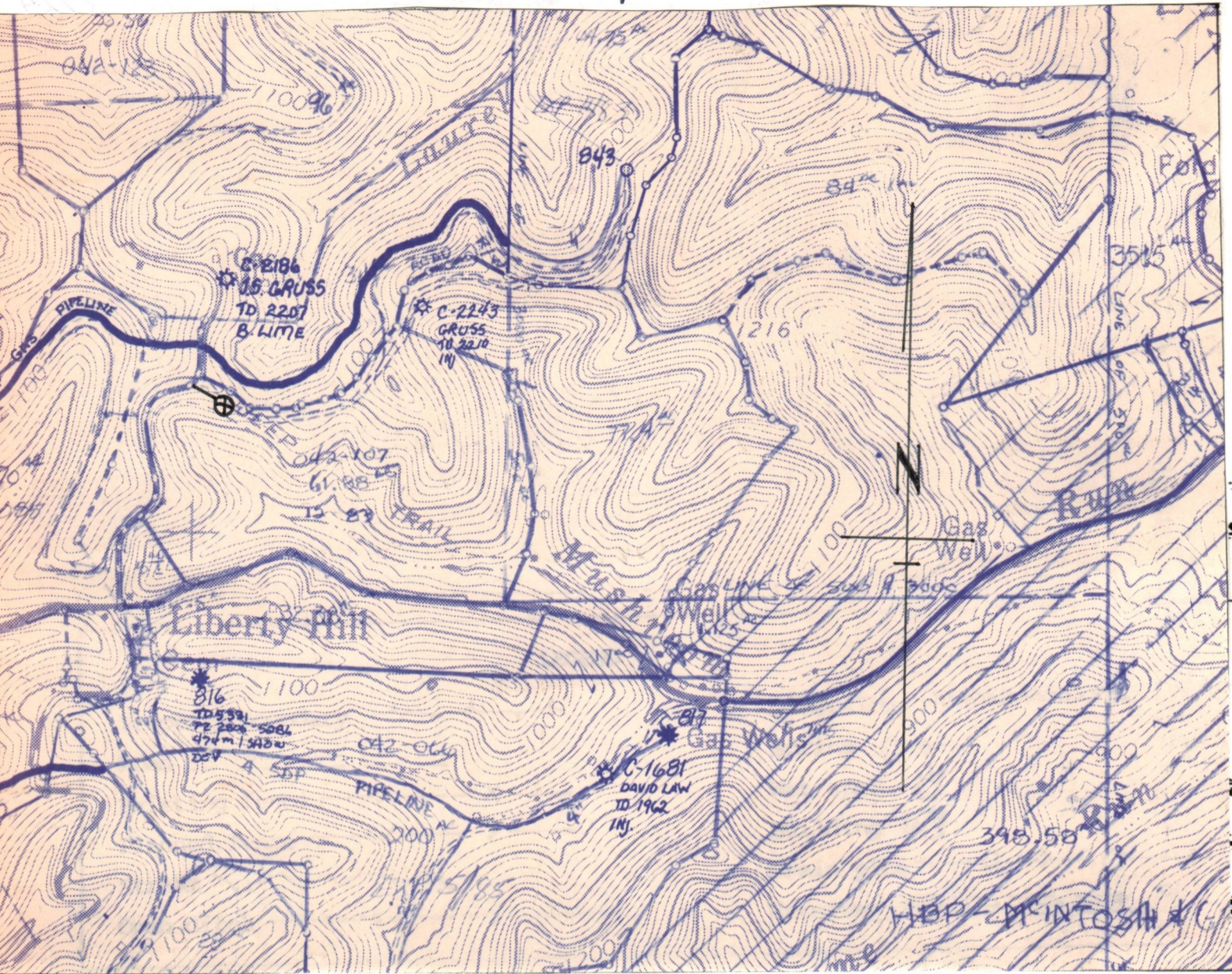
PLAN PREPARED BY Richard V. Campbell

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: April 10, 1984
 2) Operator's Well No. 920
 3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1062.06' Watershed: Mushroom Run of Little Kanawha River
 District: Lee County: Calhoun Quadrangle: 7.5' Arnoldsburg
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- 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>275'</u>	<u>275'</u>	<u>To Surface</u>	
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2490'</u>	<u>2490'</u>	<u>100 sks</u>	
Production	<u>4 1/2</u>	<u>ERV</u>	<u>10.5#</u>	<u>X</u>			<u>5300'</u>	<u>250 sks</u>	Depths set
Tubing									
Liners									Perforations: Top Bottom

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
Melva R Wagons Date: 4/12/84
 (Signature) _____
 _____ Date: _____
 (Signature)

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 DEPT. OF MINES
 APR 24 1984

**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.

12/08/2023

1) Date: April 10, 1984
 2) Operator's Well No. 920
 3) API Well No. 47-013-3724
 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 Melva R. Wagoner
 Address Box 53 Arnoldsburg Rt.
Spencer, W.V. 25276
 (ii) Name _____
 Address _____
 (iii) Name _____
 Address _____

5(i) COAL OPERATOR UNOPERATED
 Address _____

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

Name _____
 Address _____

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

920
 P 377 648 948
 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	MELVA R. WAGONER
Street and No.	BOX 53 ARNOLDSBURG RT.
P.O., State and ZIP Code	SPENCER, W.V. 25276
Postage	\$ 5.4
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return Receipt Showing to whom, Date, and Address of Postmark or	APR 11 1984 CHARLESTON
TOTAL Postage and Postmark or	\$ 5.4

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PS Form 3800, Feb. 1982

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 **XX**

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

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 APR 11 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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

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

this 10 day of April, 19 84.
 My commission expires May 10, 19 89.

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

WELL

OPERATOR Sterling Drilling & Prod. Co., Inc.

By Harry L. Berger
 Its Designated Agent

Address 710 Virginia St., E.
Charleston, W.V. 25301
 Telephone 342 - 0121

12/08/2023

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

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

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

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

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

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

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

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Melva R. Wagoner Box 53 Arnldsbrg. Rt. Spencer, W.V. 25276	Sterling Drilling and Production Co., Inc.	1/8	086/171

Ray Reading
Louise Curtis
Samuel Hays
Bernard Hays
Perry Hays
Betty Keller
Richard Hays
Mary Powell
Anna Hays
Vicki McKinley
George R. Hays

12/08/2023



IV-35
(Rev 8-81)

Date August 23, 1985
Operator's
Well No. 920
Farm Wagoner
API No. 47 - 013 - 3724

RECEIVED
OCT 15 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1062.06' Watershed Mushroom Run of Little Kanawha River
District: Lee County Calhoun Quadrangle Arnoldsburg 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.

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

DESIGNATED AGENT W. E. Stover

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

SURFACE OWNER Melva R. Wagoner

ADDRESS Box 53, Arnoldsburg Rt., Spencer, WV

MINERAL RIGHTS OWNER Melva R. Wagoner, et al ²⁵²⁷⁶

ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandridge, WV 25274

PERMIT ISSUED May 9, 1984

DRILLING COMMENCED July 8, 1985

DRILLING COMPLETED July 14, 1985

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	294'	294'	110 sks.
8 5/8			
7	2525'	2525'	190 sks.
5 1/2			
4 1/2		4748'	250 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5300' feet

Depth of completed well 4805'KB feet Rotary X / Cable Tools

Water strata depth: Fresh ^{not} reported feet; Salt 1600' feet

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2574'-3858' feet

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

Final open flow 531 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 17 1/2 hours

Static rock pressure 580 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

12/08/2023

Second producing formation Pay zone depth feet

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

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

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

(Continue on reverse side)

CAL 3724

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

Perforations

1st Stage- 13 holes 3557'-3858'
 2nd Stage- 14 holes 3014'-3130'
 3rd Stage- 17 holes 2574'-2805'

Treatment

1st Stage- 500 gals. 15% HCl; 1,068 MSCF N₂
 2nd Stage- 500 gals. 15% HCl; 1,014 MSCF N₂
 3rd Stage- 500 gals. 15% HCl; 977 MSCF N₂

WELL LOG
920

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandstone and Shale			0	971	All depths from 10'KB
Sandstone			971	1060	
Shale			1060	1124	
Sandstone			1124	1303	
Shale			1303	1330	
Sandstone			1330	1354	
Siltstone and Shale			1354	1663	Salt water @ 1600'
Salt Sand			1663	1730	
Silty Shale			1730	1750	
Salt Sand			1750	1831	
Silty Shale			1831	1870	
Maxon			1870	1925	
Little Lime			1925	1948	
Blue Monday			1948	1966	
Pencil Cave			1966	1972	
Big Lime			1972	2116	
Big Injun			2116	2129	
Silty Shale			2129	2451	
Sunbury Shale			2451	2469	
Berea			2469	2472	
Siltstone and Shale			2472	2781	
Gordon			2781	2810	
Shale			2810	4805	Top of Java formation @ 4644'
Total Depth				4805	

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.

Well Operator

By: William E. Stow

12/08/2023

Date: October 14, 1985

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
JUL 16 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 133724

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Wagner
 Well No. 920
 District Lee County Cal
 Drilling commenced 7-7-85
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

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

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

Drillers' Names Hunt &

Remarks:
294' of 9 5/8" casing, 110 sacks cement, Dowell, 7-8-85
Good cement circulated

7-8-85
DATE

W. M. [Signature] 12/08/2023
DISTRICT WELL INSPECTOR

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.

_____ **12/08/2023**
DISTRICT WELL INSPECTOR

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

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

5-9-84

INSPECTOR'S WELL REPORT

APR 15 1986

Permit No. 13-3724

Oil or Gas Well _____
(KIND)

Company <u>Sterling O & P</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Melva Wagner</u>	16			Kind of Packer _____
Well No. <u>920</u>	13			
District <u>See</u> County <u>Cal</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6%			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:
Relieve Reclamation.

4-12-86
DATE

D. J. Mace
INSPECTOR
12/08/2023

Form 26
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.

12/08/2023
DISTRICT WELL INSPECTOR

**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 - 3724 -

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

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 4805 feet

4.0 Name, address and code number of applicant: (25 letters per line maximum. If code number not available, leave blank.)
Sterling Drilling and Production Co. Inc. 018084
Name
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 (25 letters maximum for field name.)
Lee
Field Name
Calhoun
County State WV

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

1(c) Name and identification number of this well: (25 letters and digits maximum.)
Wagoner #920

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (25 letters maximum.)

6.0 (a) Name and code number of the purchaser: (25 letters and digits maximum. If code number not available, leave blank.)
Undedicated
Name Buyer Code

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

1(c) Estimated total annual production from the well: 15.93 Million Cubic Feet

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OCT 16 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

	(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>6.076</u>	_____	_____	_____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU <u>6.076</u>	_____	_____	_____

9.0 Person responsible for this application:
William E. Stover Designated Agent
Name Title
William E. Stover
Signature
10/14/85
Date Application is Completed
304-342-0121
Phone Number

Agency Use Only
Date Received by Juris. Agency
OCT 16 1985
Date Received by FERC

12/08/2023

NOV 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: October 14, 19 85

47550

AGENCY USE ONLY

Applicant's Name: Sterling Drilling & Production Co.

Inc. WELL DETERMINATION FILE NUMBER

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

851016 -1073-013 - 3724

Gas Purchaser Contract No. _____

Use Above File Number on all
Communications Relating to This Well

Date of Contract _____
(Month, day and year)

SDP #920

First Purchaser: Undedicated P629

Designated Agent: William E. Stover

Address: _____
(Street or P.O. Box)

Address: 710 Virginia St., E, Arcade Bldg.

(City) (State) (Zip Code)

Charleston, WV 25301

FERC Seller Code _____

FERC Buyer Code _____

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

Name: William E. Stover
(Print)

Vice President/Drilling Supervi
(Title)

Signature: William E. Stover

Address: 710 Virginia St., E., Arcade Bldg.
(Street or P.O. Box)
Charleston, WV 25301

Telephone: (City) (State) (Zip Code)
(304) (WV) 342-0121
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

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

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

AGENCY USE ONLY

QUALIFIED

12/08/2023

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OCT 16 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: Sterling Drilling & Production Co. Agent: William E. Stover

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-013-3724 Well Name: Wagoner #920

West Virginia Office of Oil and Gas County: Calhoun

References: SJA File No.

Vol. Page Line

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

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 165 * API Units
2. Remarks:
 - Note: From 2472' - 2532' all gamma ray readings are thru 7" casing and cement. However baseline was not corrected.

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

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

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

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2472	4794	2322	112

Total Devonian Interval 2322

Total Less Than 0.7 (Shale Base) 112

% Less Than 0.7 (Shale Base Line) = $\frac{0.0482}{1} \times 100 = \underline{4.8}$ %

*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.

12/08/2023

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Operator's Well No. 920

API Well No. 47 - 013 - 3724
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT William E. Stover
ADDRESS 710 Virginia St., E., Arcade Bldg.
Charleston, WV 25301

WELL OPERATOR Sterling Drilling & Prod. Co., Inc.
ADDRESS 710 Virginia St., E., Arcade Bldg.
Charleston, WV 25301

LOCATION Elevation 1062.06'
Watershed Mushroom Run of Lt. Kanawha
Dist. Lee County Calhoun Quad. Arnoldsburg

GAS PURCHASER Undedicated
ADDRESS _____

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling began: July 8, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS
 $t = 60 + (0.0075 \times 4805) + 459.67 = 555.70$. $X = \frac{1}{53.34} / \frac{555.70}{0.00003374}$
Pf 580 x 2.7183 0.00003374 x 0.690 x 1.08 x 3216 = 628.8 PSIA

AFFIDAVIT

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

William E. Stover

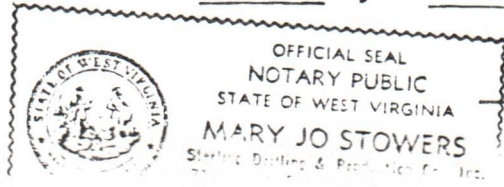
STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, Mary Jo Stowers, a Notary Public in and for the state and county aforesaid, do certify that William E. Stover, whose name is signed to the writing above, bearing date the 14th day of October, 1985 12/08/2023 acknowledged the same before me, in my county aforesaid.

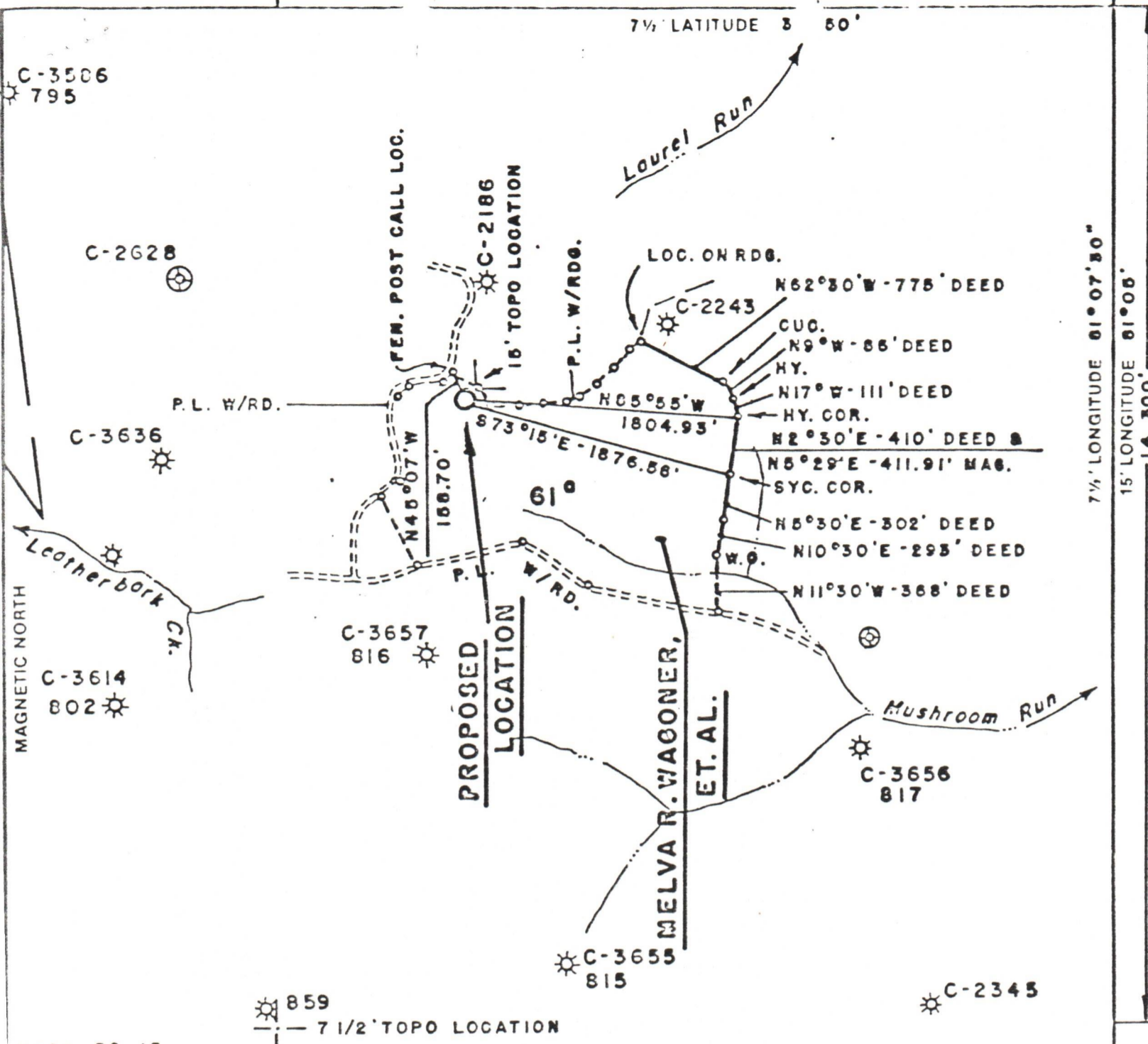
Given under my hand and official seal this 14th day of October, 1985.
My term of office expires on the 7th day of August, 1995.

(NOTARIAL SEAL)



Mary Jo Stowers
Notary Public

C-3506
795

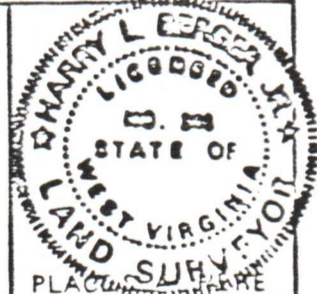


H-28, PG. 15

FILE NO 042-107 NO.1
 MAP NO. 55-C
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. DATA TOP
 KNOWN SHOW SHOW EL. 1216'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

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



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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE MARCH, 19 84
 OPERATOR'S WELL NO. 920
 API WELL NO. 47-013-3724
 STATE COUNTY PERMIT
EXP. 5/9/86

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1062.06' WATER SHED MUSHROOM RUN OF LITTLE KANAWHA RIVER
 DISTRICT LEE COUNTY CALHOUN
 QUADRANGLE 7 1/2' ARNOLDSBURG (ARNOLDSBURG S.W.)
 SURFACE OWNER MELVA R. WAGONER ACREAGE 61
 OIL & GAS ROYALTY OWNER MELVA R. WAGONER, ET. AL. LEASE ACREAGE 61 12/08/2023
 LEASE NO 042-107

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 _____
 OPERATOR STERLING DRILLING & PRODUCTION CO. INC. AGENT HARRY L. BERGER
 ADDRESS 360 MADISON AVE. - 5TH FLOOR ADDRESS 710 VIRGINIA ST. E.
NEW YORK, N.Y. 10017 CHARLESTON, WV 25301