

RECEIVED

DEC 14 1984



1) Date: December 13, 19 84
2) Operator's Well No. JARVIS #1025
3) API Well No. 47 - 013 - 3860
State County Permit

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

- 4) WELL TYPE: A Oil / Gas X
5) LOCATION: Elevation: 931.71' Watershed: Beech Fork District: Washington County: Calhoun Quadrangle: 7.5' Tariff
6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.
7) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274
8) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME
10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
12) Estimated depth of completed well, 5125 feet
13) Approximate trata depths: Fresh, salt,
14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes / No X

15) CASING AND TUBING PROGRAM

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 (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Includes handwritten entries like 'NEAT' and '1500'.

OFFICE USE ONLY DRILLING PERMIT

Permit number 47-013-3860 Date December 17, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.

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 December 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee. Handwritten values: 148, MN, MN, MN, 8344.

Margaret J. Dasse 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



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DEPT. OF MINES
OIL & GAS DIVISION
OFFICE USE ONLY

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

1) WELL LOCATION
2) WELL OPERATOR
3) OIL & GAS INSPECTOR TO BE NOTIFIED
4) PROPOSED WELL WORK
5) GEOLOGICAL TARGET INFORMATION
6) CASING AND LUBING PROGRAM

FORMATION	DEPTH	THICKNESS	REMARKS
TO SURFACE	250'	250'	NEAT
100' SKS	1900'	1900'	
100' SKS	2150'	2150'	

OFFICE USE ONLY

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

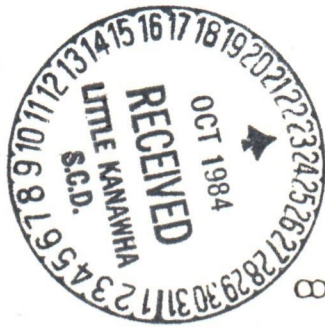
Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	" "
Completion of the drilling process	" "
Well Record received	" "
Reclamation completed	" "

OTHER INSPECTIONS

Reason: _____
Reason: _____



IV-9
(Rev 8-81)



DATE 10-22-84

WELL NO. Gunn # 1025

State of West Virginia API NO. 47 - 013 - 3860

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

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

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

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

LANDOWNER GEROLD SIMONS 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: 10/24/84 (Date)

Ranchall S. Dickinson
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A)	Structure _____ (1)
Size <u>48"</u>	Material _____
Page Ref. Manual <u>2-8 Table 3</u>	Page Ref. Manual _____
Structure <u>Drainage Ditches</u> (B)	Structure <u>Rip-Rap</u> (2)
Location <u>Roadside</u>	Material <u>Rock</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-9</u>
Structure <u>Cross Drains - Earthen</u> (C)	Structure _____ (3)
Spacing <u>150' for 3.5%</u>	Material _____
Page Ref. Manual <u>2-4 Table 1</u>	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

Lime 2 Tons/acre
or correct to pH 6.5

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

Mulch Hay or Straw 2 Tons/acre

Seed* Orchard grass 15 lbs/acre
Red Clover 8 lbs/acre
Alsike Clover 4 lbs/acre

Treatment Area II

Lime 2 Tons/acre
or correct to pH 6.5

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

Mulch Hay or Straw 2 Tons/acre

Seed* Orchard grass 15 lbs/acre
Red Clover 8 lbs/acre
Alsike Clover 4 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. 12/08/2023

PLAN PREPARED BY Richard A. Campbell

ADDRESS Route 1, Box 30

Duck, WV 25063

PHONE NO. (304) 364-5780

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

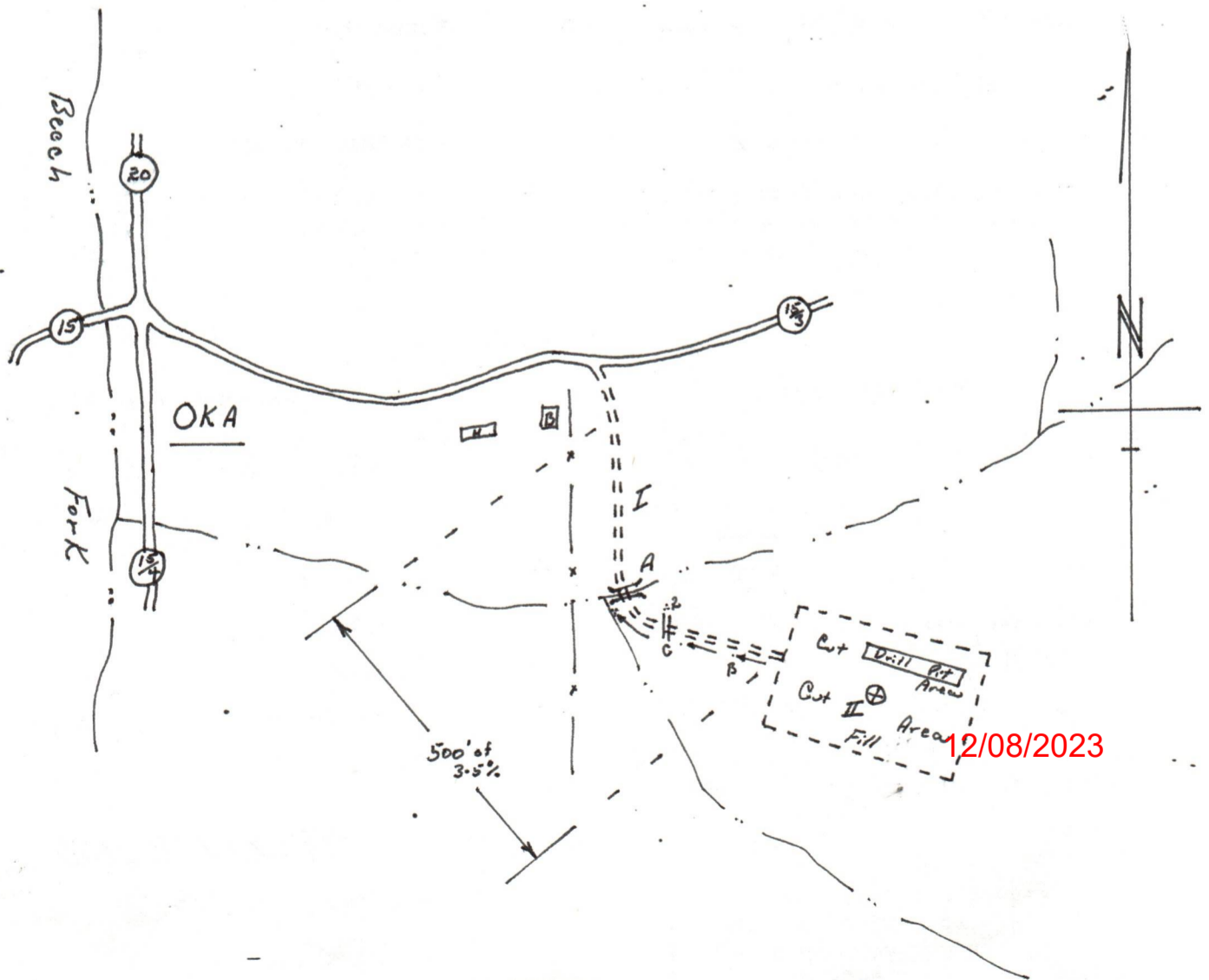
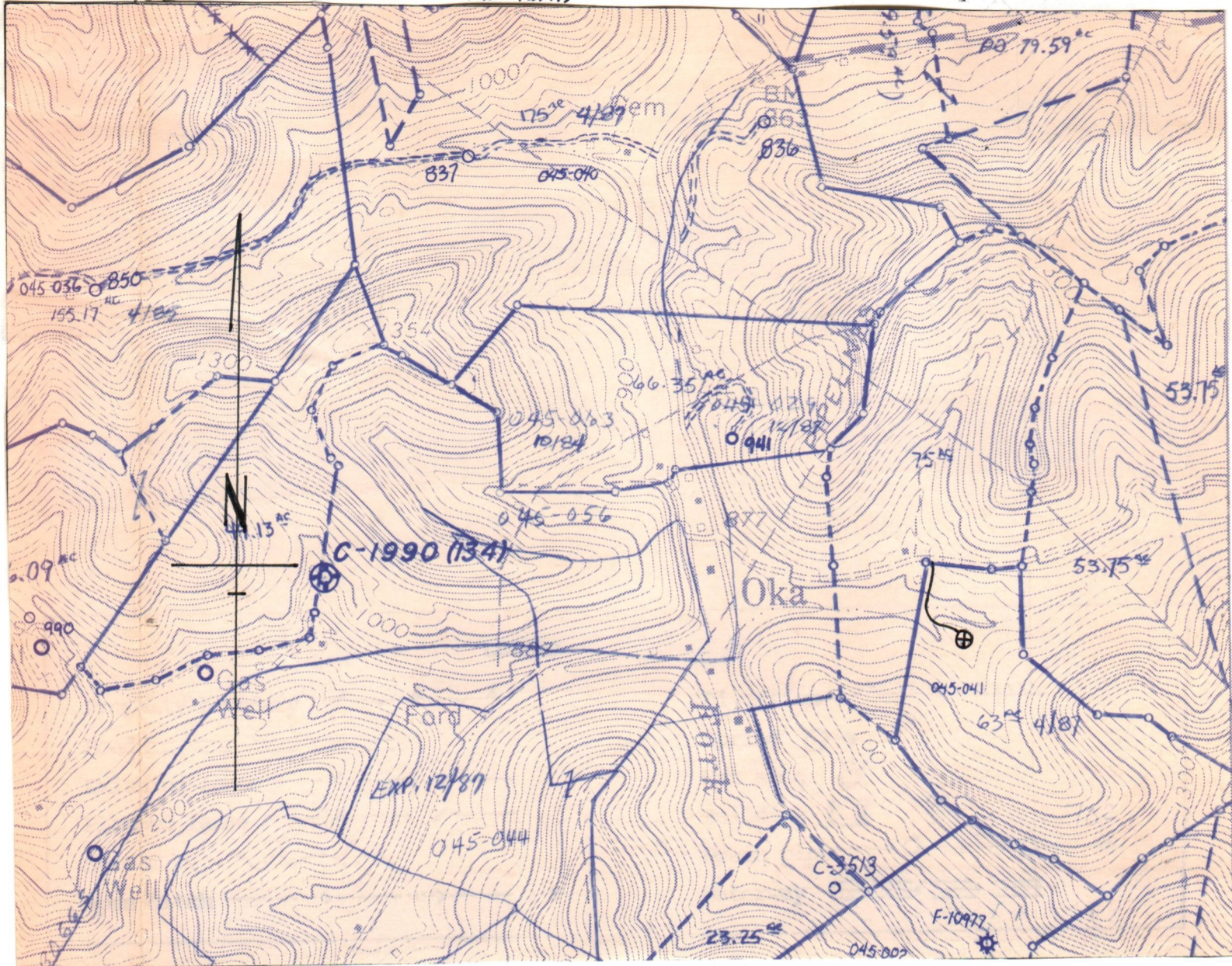
IV-9 REVERSE
(REV 8-81)

INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 15' Outer NW
7 1/2' Tariff

LEGEND

Well Site	
Access Road	

1025



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>
Thomas R. Jarvis General Delivery Chloe, W.V. 25235	Sterling Drilling and Production Co., Inc.	1/8	081/143

Sybil Pischke
Irene Jarvis Gunn

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

1) SURFACE OWNER(S) OF RECORD TO BE SERVED
(i) Name Garold G. Simons
Address Rt. 3 Box 340
Chloe, W.V. 25235
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR UNOPERATED
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name UNKNOWN
Address _____
Name _____
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

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

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

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

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

- 6) EXTRACTION RIGHTS
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 7) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes NoXX

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

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

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

this 13 day of December, 1984.
My commission expires May 10, 1989.

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

WELL OPERATOR Sterling Drilling & Prod. Co., Inc.
By Harry L. Berger, Jr.
Its Designated Agent
Address 710 Virginia St., E.
Charleston, W.V. 25301
Telephone 342 - 0121

DEPT. OF MINES
OIL & GAS DIVISION

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12/08/2023



1) Date: December 13, 19 84

2) Operator's Well No. JARVIS #1025

3) API Well No. 47 State _____ County _____ Permit _____

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DEC 14 1984

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

OIL & GAS DIVISION

- 4) WELL TYPE **MINES** / Gas /
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 931.71' / Watershed: Beech Fork
 District: Washington / County: Calhoun / Quadrangle: 7.5' Tariff
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. / 7) DESIGNATED AGENT Harry L. Berger, Jr.
 Address 220 E. 42nd St., 33rd Floor / Address 710 Virginia St., E.
New York, New York 10017 / Charleston, W.V. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Hace / 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME
 Address Rt. 1 Box 5 / Address _____
Sandridge, W.V. 25274
- 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, 5125 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor										Kinds
Fresh water	9 5/8	LS	33#	X		250'	250'	To Surface		
Coal										Sizes
Intermediate	7"	J-55	20#	X		1900'	1900'	100 sks		
Production	4 1/2	ERW	10.5#	X			5125'	250 sks		Depths set
Tubing										
Liners										Perforations:
										Top
										Bottom

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

Arnold Simons Date: 12-14-84
(Signature)

By _____

Janette Simons Date: _____
(Signature)

Its _____ Date _____

12/08/2023

Surface Owner

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DEC 14 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.

[Handwritten signature and date]

12/08/2023
Surface Owner

APPLICATION
WV GENERAL NPDES PERMIT FOR OIL & GAS
DRILLING PIT WASTE DISCHARGE

Permit No. 47-013-3860

Calhoun

A. APPLICATION (To Be Completed By Company)

1. Company Name: Sterling Drilling and Production Co., Inc.
Mailing Address: Arcade Bldg., 710 Virginia St., East, Charleston, WV 25301
Telephone: (304) 342-0121 Well No. 1025 Well Name JARVIS

Name of stream that may be discharged to: Beech Fork

A tributary of: Henry Fork of Little Kanawha River

Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):
As per Section 3, Land Application (Guidelines)

Name of person supervising discharge: Jim Davis, et al
Telephone: (304) 342-0101; (304) 655-8584

By completing and submitting this application, I agree to adhere to the guidance and provisions of the interim experimental general permit system. I understand that the participation in the program does not prohibit enforcement action for violation of the terms of this general permit or some other applicable law or regulation.

Harry J. Davis 12/13/84
Signature Date

B. NOTIFICATION (To Be Completed By DWR)

1. Company telephone contact: (Approximately 48 hours prior to discharge):
Discharge Date: 8 May 85
Type of Disposal method selected: Land Application
Volume of Waste: 2800 Discharge rate: 1 CFS
Time projected for discharge: 7-8 hours DAYS
Receiving Stream flow rate: N/A CFS

C. INSPECTION (To Be Completed By DWR)

1. Compliance with general permit interim guidelines:
Acceptable: Not Acceptable:
Comments: _____

2. Division of Water Resources Action Taken: None

Action Recommended: None

3. Parameters (Taken By Operator or Inspector Prior to Discharge):

pH 10
Chloride 1
Total Fe 1

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JUN 2 7 1985

OIL & GAS DIVISION
DEPT. OF MINES

4. 208 Practices (Informational Only):
Acceptable: Not Acceptable:

Comments: None

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OIL & GAS DIVISION
DEPT. OF MINES

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

Perforations

1st Stage- 29 holes 4553'-5033'
 2nd Stage- 27 holes 3672'-4302'
 3rd Stage- 30 holes 2935'-3562'

Treatment

1st Stage- 750 gals. 15% HCl; 1,226 MSCF N₂
 2nd Stage- 750 gals. 15% HCl; 1,384 MSCF N₂
 3rd Stage- 750 gals. 15% HCl; 1,940 MSCF N₂

WELL LOG
Jarvis# 1025

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	1246	All depths from 10' KB
Salt Sand			1246	1355	Salt water @ 480'
Shale			1355	1398	
Salt Sand W/ Shale Stringers			1398	1505	
Sandstone and Shale			1505	1602	
Little Lime			1602	1636	
Pencil Cave			1636	1640	
Big Lime			1640	1785	
Big Injun			1785	1802	
Silty Shale			1802	2114	
Sunbury Sahle			2114	2126	
Siltstone and Shale			2126	2632	
Shale			2632	4498	Top of Java Formation @ 4323'
Siltstone			4498	4538	
Shale			4538	4670	Top of Angola Shale @ 4556'
Siltstone			4670	4776	
Shale			4776	5179	Top of Rhinestreet Shale @ 4859'
Total Depth				5179	

(Attach separate sheets as necessary)

Sterling Drilling & Production Co., Inc.

Well Operator

12/08/2023

By:

Harry J. Berger, Jr.

Date:

5-22-85

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well "

FERC

IV-35
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

Date May 22, 1985
Operator's
Well No. 1025
Farm Jarvis
API No. 47 - 013 - 3860

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: 931.71 Watershed Beech Fork
District: Washington County Calhoun Quadrangle Tariff 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.

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

DESIGNATED AGENT Harry L. Berger, Jr.

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

SURFACE OWNER Garold G. Simmons

ADDRESS Rt. 3 Box 340, Chloe, WV 25235

MINERAL RIGHTS OWNER Thomas R. Jarvis

ADDRESS General Delivery, Chloe, WV 25235

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt. 1 Box 5 Sandridge, WV 25274

PERMIT ISSUED December 17, 1984

DRILLING COMMENCED January 23, 1985

DRILLING COMPLETED January 29, 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	317'	317'	130 sks.
8 5/8			
7	1979'	1979'	175 sks.
5 1/2			
4 1/2		5154'	280 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5125' feet

Depth of completed well 5179' KB feet Rotary X / Cable Tools

Water strata depth: Fresh ^{not} reported feet; Salt 480' feet

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2935'-5033' feet

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

Final open flow 348 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 16 hours

Static rock pressure 950 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

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

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

Time of open flow between initial and final tests hours

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

(Continue on reverse side)

CAL 3860

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: _____

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

DISTRICT WELL INSPECTOR

12/08/2023

IV-20
Obverse
1-84

25-~~Jan~~-85
RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

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

APR 15 1986

Company: STERLING DRILLING
Farm: SIMONS, GAROLD G.

Well: JARVIS 1025

Permit No. 47- 13-3860
County: CALHOUN

12-17-84

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
15.05	Cement Type	-----	-----
23.02	Maintained Access Roads	-----	-----
25.01	Necessary Equipment to Prevent Waste	-----	-----
23.04	Reclaimed Drilling Fits	-----	-----
23.05	No Surface or Underground Pollution	-----	-----
23.07	Requirements for Production & Gathering Pipelines	-----	-----
14.01	Well Records on Site	-----	-----
14.02	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED *D. W. 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. H. v. B. B.

Administrator

April 21, 1986

Date

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

APR 15 1986

Permit No. 47-12-1886
County: CALHOUN

Well: JARVIS 1022
Operator: SIMONS, GAROLD G.
Company: STERLING DRILLING

Item	Description	In Compliance
		Yes No
15.01	Identical Markings	
15.02	Well Records Filed	
15.03	Well Records on Site	
15.04	Requirements for Production & Gathering Facilities	
15.05	No Surface or Underground Pollution	
15.06	Regraded Drilling Pits	
15.07	Necessary Equipment to Prevent Waste	
15.08	Maintain Access Roads	
15.09	Cement Type	
15.04	Adequate Cement Strength	
15.01	Adequate Production Casings	
15.02	Adequate Coal Casings	
15.03	Adequate Fresh Water Casings	
15.01	Regraded permits at surface	
15.03	High-pressure drilling	
15.04	Prepared before drilling to prevent waste	
15.05	Notification prior to starting work	

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

SIGNED: *[Signature]*
DATE: 4-17-86

Your well record was reviewed and reclamation requirements approved. In accordance with Chapter 23, Article 4, Section 2, the above well will remain under bond.
[Signature]
Administrator

**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 - 3860 -
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.)	5179 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.)	Washington District Field Name Calhoun County 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.)	Jarvis #1025
(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.)	UNDEDICATED Name Buyer Code
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated total annual production from the well:	10 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 5.982	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 5.982	-----	-----	-----

9.0 Person responsible for this application:	Harry L. Berger, Jr. Name <i>Harry L. Berger, Jr.</i> Signature May 21, 1985 Date Application is Completed	Designated Agent Title 304-342-0121 Phone Number
--	---	---

Agency Use Only

Date Received by Juris. Agency
MAY 23 1985

Date Received by FERC

12/08/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

47-013-3860

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 21, 19 85

47550

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

850523 -1073-013 -3860

Gas Purchaser Contract No. _____

Use Above File Number on all
Communications Relating to This

Date of Contract _____
(Month, day and year)

SDP #1025

First Purchaser: UNDEDICATED P629

Designated Agent: Harry L. Berger,

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

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

(City) (State) (Zip Code)

FERC Seller Code 018084

FERC Buyer Code _____

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

Name: Harry L. Berger, Jr.

Agent

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

Telephone: _____

(City) (State) (Zip Code)
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 Geopressed 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 Bu

AGENCY USE ONLY

12/08/2023
QUALIFIED

RECEIVED

MAY 23 1985

OIL & GAS DIV.
DEPT. OF MINES

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

Operator: Sterling Drilling & Production Co. Agent: Harry L. Berger, Jr.

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-013-3860 Well Name: #1025 Jarvis

West Virginia Office of Oil and Gas County: Calhoun
 References: SJA File No.

Vol. Page Line

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

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 160 * API Units
2. Remarks:

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

1. GR Value = 160 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (160 *)}} = \underline{112}$ API Units

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

Interval		Thickness of Interval Feet	Feet-of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2126'	5151	3025'	143

Total Devonian Interval 3025'

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $\frac{143}{3025} \times 100 = \underline{4.7\%}$

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.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Jarvis #1025

API Well No.

47 - 013 - 3860
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Harry L. Berger, Jr.

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

LOCATION Elevation 931.71

WELL OPERATOR Sterling Drilling & Production Co Watershed Beech Fork

ADDRESS 710 Virginia Street, East
Charleston, WV 25301

Dist. Washington County Calhoun Quad. Tariff 7 1/2

Gas Purchase
Contract No. _____

GAS PURCHASER UNDEDICATED

Meter Chart Code _____

ADDRESS _____

Date of Contract _____

* * * * *

Date surface drilling began: January 23, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5179) + 459.67 = 559 \cdot X = \frac{1}{53.34} \times 559 = .0000335$$

$$Pf = 950 \times 2.7183 \cdot 0.0000335 \times 3984 \times .690 \times 1.08 = 1049 \text{ PSIA}$$

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)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Harry L. Berger, Jr.

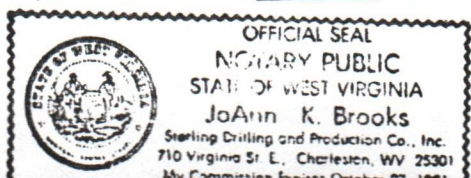
STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, JoAnn K Brooks, a Notary Public in and for the state and county aforesaid, do certify that Harry L. Berger, Jr., whose name is signed to the writing above, bearing date the 21st day of May, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 21st day of May, 1985.
My term of office expires on the 27th day of October, 1991.

(NOTARIAL SEAL)



JoAnn K Brooks
Notary Public

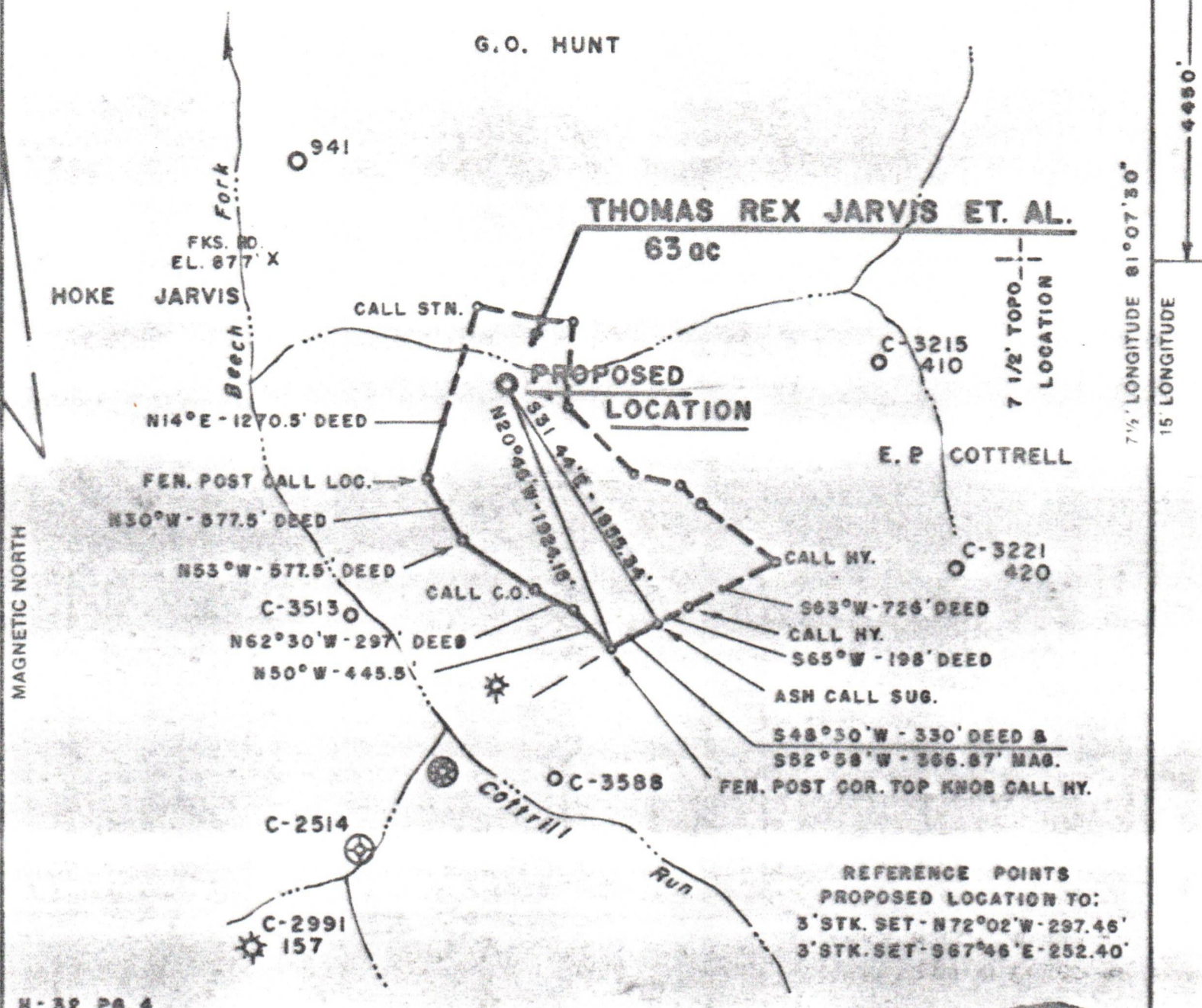
2772 2/17/84

15 LATITUDE
7 1/2' LATITUDE 38°40'

1800'

7 1/2' LONGITUDE 81°07'30"

15' LONGITUDE



H-32, Pg. 4

FILE NO. 045-041
 MAP NO. 74-A
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. DATA FKS. RD. EL. 877'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Harry L. Berger, Jr.
 HARRY L. BERGER, JR. L.L.S. 248



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



DATE NOVEMBER 27 19 84
 OPERATOR'S WELL NO. 1025
 API WELL NO. 47-013-3860
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 931.71' WATER SHED BEECH FORK
 DISTRICT WASHINGTON COUNTY CALHOUN
 QUADRANGLE 7 1/2' TARIFF (LOTTER N.W.)
 SURFACE OWNER GAROLD SIMONS ACREAGE 63
 OIL & GAS ROYALTY OWNER THOMAS R. JARVIS LEASE ACREAGE 63
 LEASE NO. 045-041

12/08/2023

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5125'
 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