

FORM 14-2(B)  
(Obverse)  
7-83  
**RECEIVED**

JUL 24 1984



1) Date: ~~May 2004~~ July 3, 1984  
2) Operator's Well No. 903  
3) API Well No. 47 - 013 - 3756  
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  / B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 952.38' / Watershed: Beech Fork LKW 15J / District: Washington 5 / County: Calhoun / Quadrangle: 7.5' Tariff 634
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.  
Address 360 Madison Ave. Fifth Floor 47550 New York, New York 10017 / Address 710 Virginia St., E. 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, 5500' feet
- 13) Approximate trrata depths: Fresh, feet; salt, feet.
- 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes

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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		300'	300'	To Surface	by rule 15.05
Coal									Sizes
Intermediate	7"	J-55	20#	X		2250'	2250'	100 sks	
Production	4 1/2	ERW	10.5#	X		5500'	5500'	250 sks	Depths set
Tubing								or as req. by rule 15.01	Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-013-3756 Date July 24, 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 July 24, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: LS	Plat: MW	Casing: MW	Fee: 7437
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Margaret J. Hesse  
Administrator, Office of Oil and Gas

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



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

1) LOCATION: B (L-Gas, Production) \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 Water: \_\_\_\_\_  
 County: \_\_\_\_\_  
 District: \_\_\_\_\_

2) WELL OPERATOR: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_

3) OIL & GAS INSPECTOR TO BE NOTIFIED: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_

4) PROPOSED WELL WORK: \_\_\_\_\_  
 Drill: \_\_\_\_\_  
 Driller: \_\_\_\_\_  
 Drilling Contractor: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_

5) GEOLOGICAL TARGET FORMATION: \_\_\_\_\_  
 Estimated depth of completed well: \_\_\_\_\_  
 Approximate true depth: \_\_\_\_\_  
 Approximate coal seam depth: \_\_\_\_\_

6) CASING AND TUBING PROGRAM: \_\_\_\_\_

OFFICE USE ONLY

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

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

OTHER INSPECTIONS

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

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



IV-9  
(Rev 8-81)

DATE 2-29-84

WELL NO. Hambler # 903

State of West Virginia API NO. 47-013-3756

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 Danzel Butler 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: 3-7-84  
(Date)

Garrett Newton  
(SCD Agent)

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ACCESS ROAD

Structure Culvert (A)

Spacing Size 26"

Page Ref. Manual 2-8 Table 3

Structure Drainage Ditches (B)

Spacing Roadside

Page Ref. Manual 2-12

Structure Cross Ditches-Drains -- 12" pipe (C)

Spacing 250' spacing for 6-10%

Page Ref. Manual 2-8 Table 4

LOCATION OIL & GAS DIVISION  
DEPT. OF MINES

Structure Diversion Ditch (1)

Material Earthen

Page Ref. Manual 2-12

Structure Rip-Rap (2)

Material Rock

Page Ref. Manual 2-9

Structure \_\_\_\_\_ (3)

Material \_\_\_\_\_

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

Mulch Hay 2 Tons/acre

Seed\* Ky-31 40 lbs/acre

Radish Clover 4 lbs/acre

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

Treatment Area II

Lime 2 Tons/acre  
or correct to pH 6.5

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

Mulch Hay 2 Tons/acre

Seed\* Ky-31 40 lbs/acre

Radish 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.

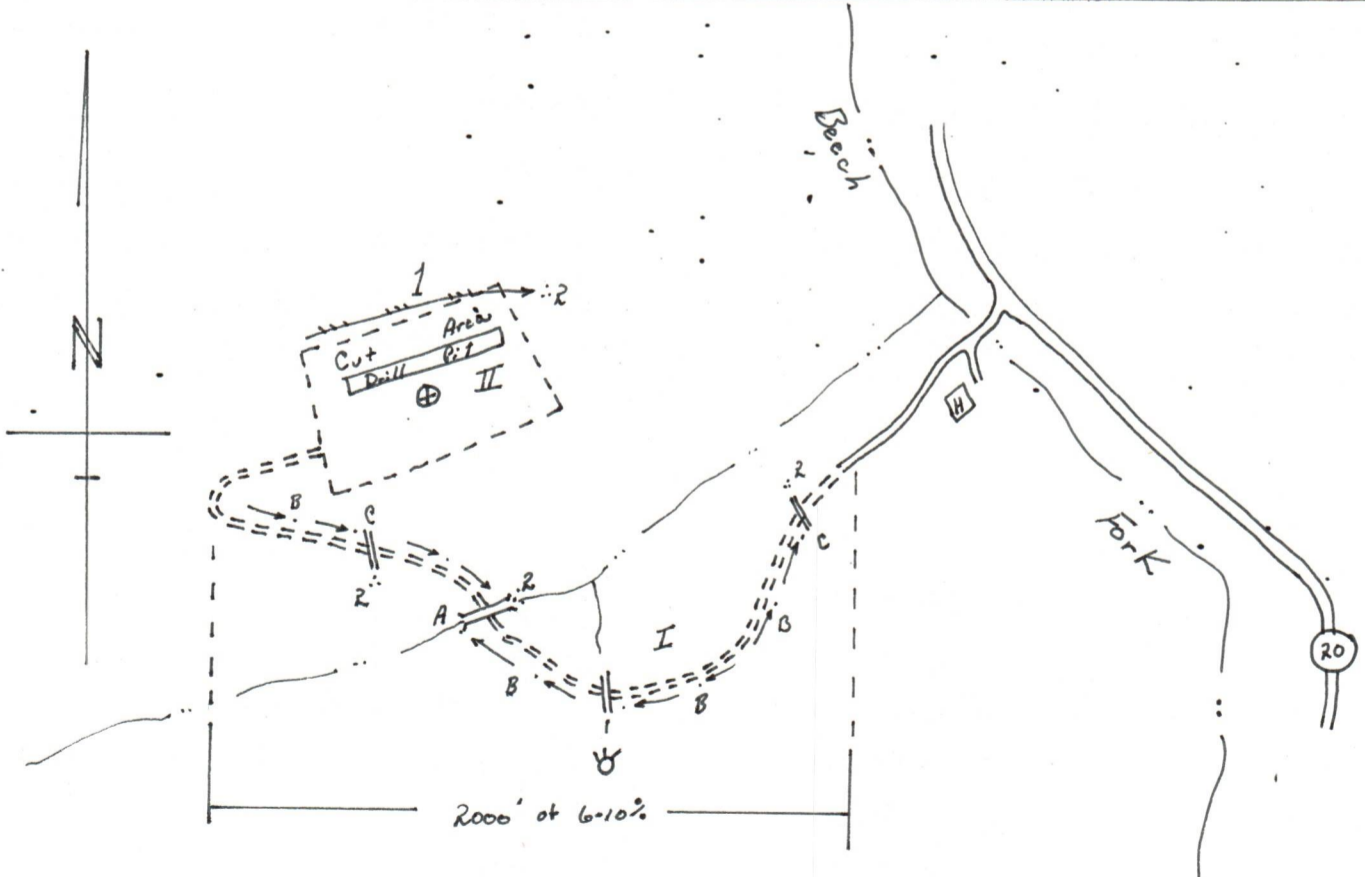
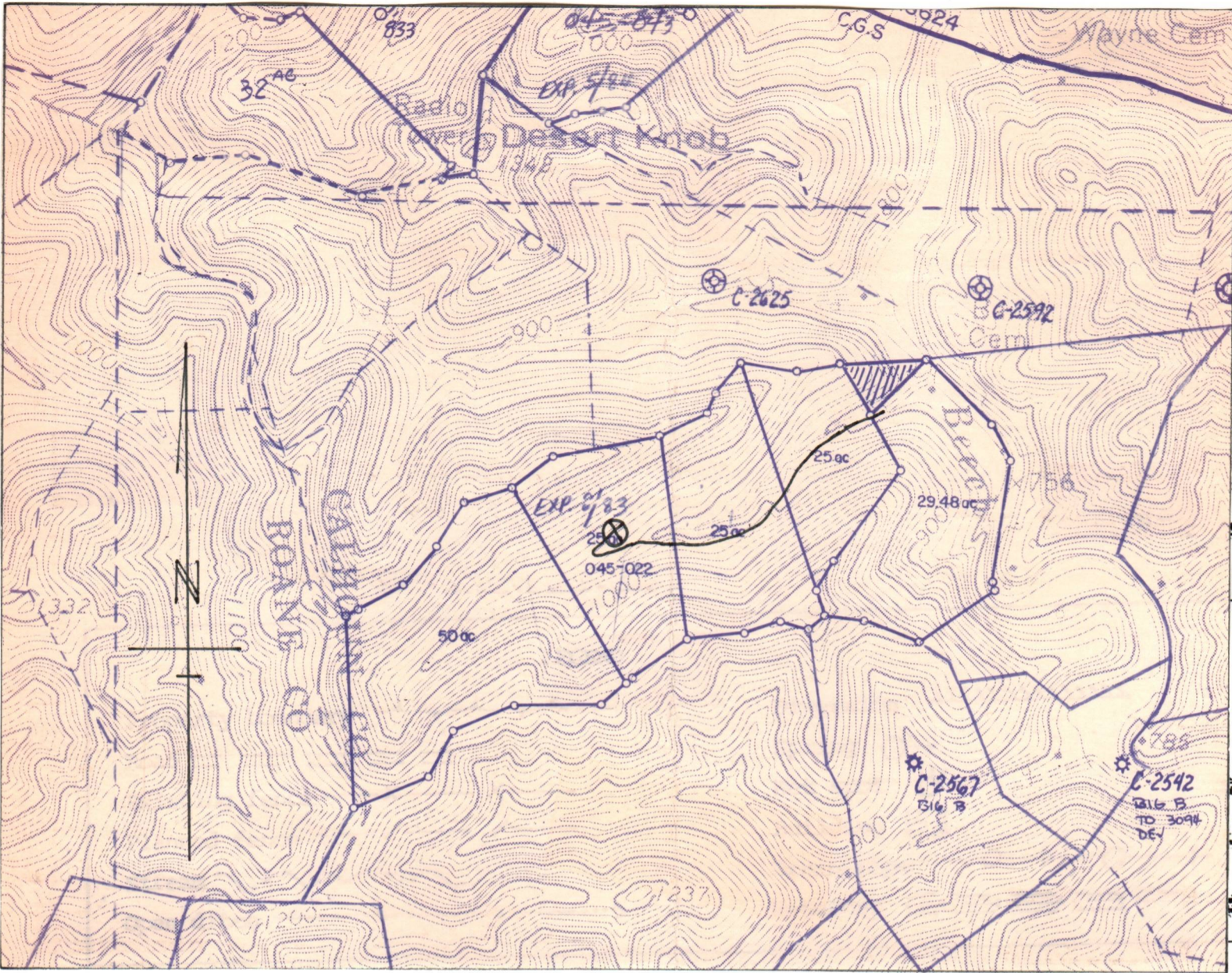
PLAN PREPARED BY Richard V. Campbell

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: July 3, 1984  
 2) Operator's Well No. 903  
 3) API Well No. 47-013-3756  
 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 Donzel Butler  
 Address Box 51  
Minorra, W.V. 25253  
 (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 PS Form 3800, Feb. 1982

Postmark or Date	1984 JUL 5
TOTAL Postage and Fees	\$ 2.88
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	75
Postage	
P.O., State and ZIP Code	MINORRA, W.V. 25253
Street and No.	BOX 51
Sent to	DONZEL BUTLER

NO INSURANCE COVERAGE PROVIDED--  
 NOT FOR INTERNATIONAL MAIL  
 RECEIPT FOR CERTIFIED MAIL  
 P 377 648 972  
 903

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 OIL & GAS DIVISION  
 DEPT. OF MINES

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.

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 16 day of May, 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  
 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.

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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>
Victor Hamilton Box 236 Grantsville, W.V. 26147	Sterling Drilling and Production Co., Inc.	1/8	086/062
Lillie Poling Lewis Ayers			

12/08/2023

IV-35  
(Rev 8-81)



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OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date June 24, 1985  
Operator's  
Well No. 903  
Farm Hamilton  
API No. 47 - 013 - 3756

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: 952.38' 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 Donzel Butler

ADDRESS Box 51, Minnora, WV 25253

MINERAL RIGHTS OWNER Victor Hamilton, et al

ADDRESS Box 236, Grantsville, WV 26147

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt.1 Box 5 Sandridge, WV 25274

PERMIT ISSUED July 24, 1984

DRILLING COMMENCED February 19, 1985

DRILLING COMPLETED February 25, 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	315'	315'	155 sks.
8 5/8			
7	2441'	2441'	200 sks.
5 1/2			
4 1/2		5128'	280 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5500' feet

Depth of completed well 5158' feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh not reported feet; Salt not reported feet

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2610'-5026' feet

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

Final open flow 581 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 43 hours

Static rock pressure 800 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 3756

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

Perforations

1st Stage- 28 holes 4290'-5026'  
2nd Stage- 25 holes 3473'-4122'  
3rd Stage- 18 holes 2610'-3306'

Treatment

1st Stage- 750 gals. 15% HCl; 1,778 MSCF N<sub>2</sub>  
2nd Stage- 750 gals. 15% HCl; 1,555 MSCF N<sub>2</sub>  
3rd Stage- 750 gals. 15% HCl; 1,352 MSCF N<sub>2</sub>

WELL LOG  
Hamilton # 903

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	875	All Depths from 10' KB	
Sandstone			875	970		
Shale			970	1035		
Sandstone			1035	1206		
Shale			1206	1240		
Sandstone			1240	1270		
Sandstone and Shale			1270	1637		
Sandstone			1637	1660		
Silty Shale			1660	1702		
Salt Sand			1702	1797		
Shale			1797	1824		
Sandstone			1824	1849		
Shale			1849	1866		
Maxon			1866	1894		
Shale			1894	1899		
Little Lime			1899	1946		
Pencil Cave			1946	1954		
Big Lime			1954	2089		
Big Injun			2089	2120		
Silty Shale			2120	2436		
Sunbury Shale			2436	2450		
Siltstone and Shale			2450	2903		
Shale			2903	4800		Top of Java formation @ 4627'
Siltstone			4800	4833		
Shale			4833	4976		Top of Angola Shale @ 4850'
Siltstone			4976	5064		
Shale			5064	5158		
Total Depth				5158		

(Attach separate sheets as necessary)

Sterling Drilling & Production Co., Inc.

Well Operator

By: Harry J. Berger 12/08/2023  
Date: 7-2-85

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



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

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OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3756

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

Company <u>Sterling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Hamilton</u>	16			
Well No. <u>903</u>	13			Size of _____
District <u>Wash</u> County <u>Cal</u>	10			
Drilling commenced <u>2-19-85</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
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 Hunt 7

Remarks: 315' of 9 5/8" 150SX cement, Donnell, 2-20-85

2-20-85  
DATE

Wes Moore 12/08/2023  
DISTRICT WELL INSPECTOR



LR-20  
Obverse  
7-85

12-Jul-85

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

RECEIVED  
DEPARTMENT OF ENERGY  
OIL AND GAS

7-2484

APR 15 1986

Company: STERLING DRILLING PROD. CO., INC.  
Farm: BUTLER, DONZEL Well: 903

Permit No. 47- 13-3756  
County: CALHOUN

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure 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 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 Dw Mace  
DATE 4-12-86

Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above well will remain under bond coverage for the life of the well.

T.H. v. B.  
Director-Oil and Gas Division

April 21, 1986  
Date

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION  
CHARLESTON 25302  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

APR 1 5 1984

Permit No. 47-13-3728  
COUNTY: CALHOUN

Operator: STERLING DRILLING PROD. CO., INC.  
Well: 903  
Face: BUTLER, WINKEL

Rule	Description	In Compliance	
		Yes	No
12-01	Well Records Filed		
12-02	Well Records Filed		
12-03	Well Records on Site		
12-04	Requirements for Production & Gathering Pipelines		
12-05	No Surface or Underground Pollution		
12-06	Reclaimed Drilling Pits		
12-07	Necessary Equipment to Prevent Waste		
12-08	Maintained Access Roads		
12-09	Cement Type		
12-10	Absolute Cement Strength		
12-11	Absolute Production Casings		
12-12	Absolute Cost Casings		
12-13	Absolute Fresh Water Casings		
12-14	Required Records of Wellbore		
12-15	High Pressure Drilling		
12-16	Revised before drilling to prevent waste		
12-17	Mitigation prior to starting work		

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

SIGNED: [Signature]  
DATE: 4-1-84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 13, Section 24, the above well will remain under bond forever for the life of the well.

[Signature]  
Director, Oil and Gas Division  
Date: 4-1-84

**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 - 3756 -			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<b>107</b> Section of NGPA		Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5158 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. Name 710 Virginia St. East, Arcade Building Street Charleston, WV 25301 City			018084 Seller Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (25 letters maximum for field name.) (b) For OCS wells:	Washington District			
	Field Name Calhoun		State WV	
	County		Zio Code	
	Area Name		Block Number	
	Date of Lease: Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (25 letters and digits maximum.)	Hamilton #903			
(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.) (b) Date of the contract:	Undedicated			
	Name Buyer Code			
	Mo. Day Yr.			
(c) Estimated total annual production from the well:	17 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 4 0 2 2	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 4 0 2 2	-----	-----	-----
9.0 Person responsible for this application:	Harry L. Berger, Jr. Name <i>Harry L. Berger Jr</i> Signature July 1, 1985 Date Application is Completed			Designated Agent Title 304-342-0121 Phone Number

Agency Use Only  
 Date Received by Juris. Agency  
**JUL - 5 1985**  
 Date Received by FERC

FERC-131 (8-82)

12/08/2023

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

JUL 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

47-013-3756

Date: July 1, 19 85

47550

AGENCY USE ONLY

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

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

Gas Purchaser Contract No.

Date of Contract (Month, day and year)

First Purchaser: Undedicated P629

Address: (Street or P.O. Box)  
(City) (State) (Zip Code)

FERC Seller Code

WELL DETERMINATION FILE NUMBER

850705 -1073-013- 3756

Use Above File Number on all Communications Relating to This Well

SDP #903

Designated Agent: Harry L. Berger, Jr.

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

FERC Buyer Code

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

Name: Harry L. Berger, Jr. Vice President and Land Manager  
(Print) (Title)

Signature: Harry L. Berger, Jr.

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

Charleston, WV 25301  
(City) (State) (Zip Code)

Telephone: (304) 342-0121  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

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

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

AGENCY USE ONLY

QUALIFIED

12/08/2023

RECEIVED

JUL 5 1985

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: Sterling Drilling & Prod. Co., Inc. Agent: Harry L. Berger

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-013-3756 Well Name: Hamilton #903

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 = 170 \* API Units
2. Remarks:

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

1. GR Value = 119 \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (170 *)}} = \underline{119}$  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***		
2440	5148	2708	56

Total Devonian Interval 2708

Total Less Than 0.7 (Shale Base) 56

% Less Than 0.7 (Shale Base Line) =  $\frac{0.0206}{1} \times 100 = \underline{2.1\%}$

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.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's  
Well No. Hamilton #903

API Well No.

47 - 013 - 3756  
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 952.38'

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: February 19, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5158) + 459.67 = 558$$

$$x = \frac{1}{53.34} \times 558 = .0000336$$

$$Pf = 800 \times 2.7183 \times .0000336 \times 3818 \times .690 \times 1.08 = 880 \text{ PSIA}$$

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

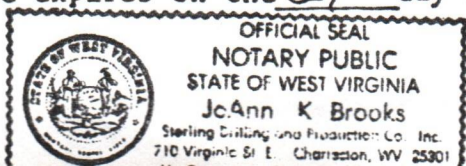
COUNTY OF Kanawha, TO-WIT:

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 1<sup>st</sup> day of July, 1985, has acknowledged the same before me, in my county aforesaid.

12/08/2023

Given under my hand and official seal this 1<sup>st</sup> day of July, 1985.  
My term of office expires on the 27 day of October, 1991.

(NOTARIAL SEAL)



JoAnn K Brooks  
Notary Public



222 7/24/94

15' LATITUDE

11,050

7 1/2' LATITUDE 38°45'

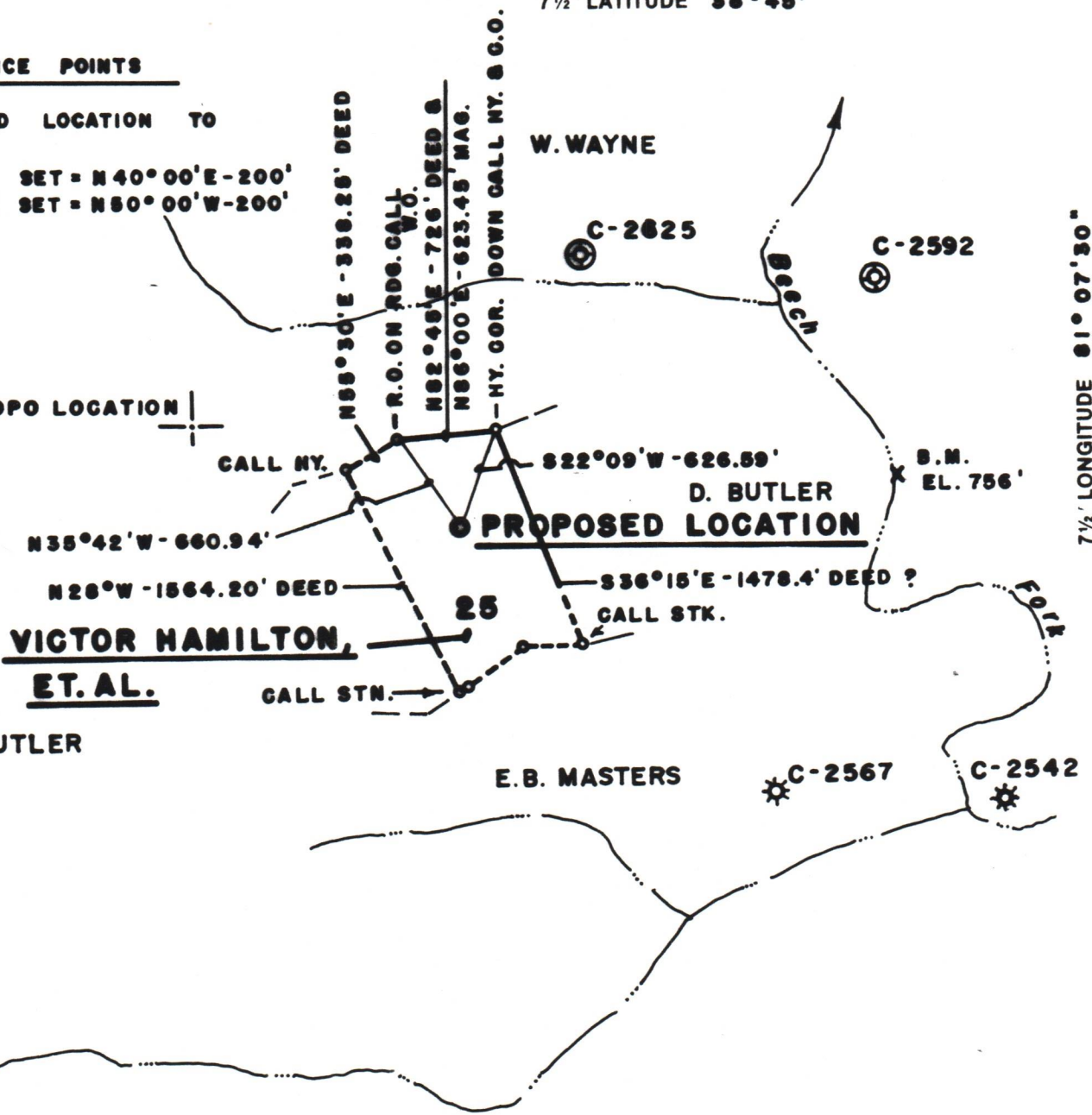
**REFERENCE POINTS**

PROPOSED LOCATION TO

3' STAKE SET = N40°00'E-200'  
3' STAKE SET = N80°00'W-200'

7 1/2' TOPO LOCATION

MAGNETIC NORTH



7 1/2' LONGITUDE 81°07'30"  
15' LONGITUDE

N-20, PG. 38

FILE NO. 045-022 NO. 1  
 MAP NO. 74-A  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. SHOWN EL. 756'

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. 7248



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



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

DATE JUNE 14, 19 84  
 OPERATOR'S WELL NO. 903  
 API WELL NO. 47-013-3756  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 952.38' WATER SHED BEECH FORK  
 DISTRICT WASHINGTON COUNTY GALHOUN  
 QUADRANGLE 7 1/2' TARIFF  
 SURFACE OWNER DONZEL BUTLER ACREAGE 25  
 OIL & GAS ROYALTY OWNER VICTOR HAMILTON, ET. AL. LEASE ACREAGE 25  
 LEASE NO. 045-022

12/08/2023

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 5500'  
 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 25314