

**RECEIVED**

SEP 28 1984



- 1) Date: September 18, 1984
- 2) Operator's Well No. Woodford #1038
- 3) API Well No. 47 - 013 - 3823  
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: 1029.13' Watershed: Barnes Run  
District: Lee County: Calhoun Quadrangle: 7.5' Arnoldsburg
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.  
Address 220 E. 42nd St. 33rd Floor Address 710 Virginia St., E.  
New York, New York 10017 Charleston, WV 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, 5000 feet
- 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: 0 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		325'	325'	To Surface	
Coal									Sizes
Intermediate	7"	J-55	20#	X		2115'	2115'	100 sks	
Production	4 1/2	ERW	10.5#	X			5000'	250 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-013-3823

November 5, 1984

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 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 November 5, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>148</u>	Agent: <input checked="" type="checkbox"/> <u>MN</u>	Plat: <u>TS</u>	Casing <u>TS</u>	Fee <u>7888</u>
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*[Signature]*

Administrator, Office of Oil and Gas

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

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

File

12/01/2023

**OFFICE USE ONLY**

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

1. LOCATION: \_\_\_\_\_  
 2. WELL OPERATOR: \_\_\_\_\_  
 3. OIL & GAS INSPECTOR TO BE NOTIFIED: \_\_\_\_\_  
 4. NAME: \_\_\_\_\_  
 5. ADDRESS: \_\_\_\_\_  
 6. PROPOSED WELL WORK: \_\_\_\_\_  
 7. OTHER PHYSICAL CHANGE IN WELL (specify): \_\_\_\_\_  
 8. APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_  
 9. APPROXIMATE DEPTH OF PROPOSED WELL: \_\_\_\_\_  
 10. APPROXIMATE COAL RESERVES: \_\_\_\_\_  
 11. APPROXIMATE COAL RESERVES IN THE AREA: \_\_\_\_\_

FORMATION	THICKNESS	DEPTH	POSITION	REMARKS
A 1/2' BRN. S.S.	100' sks	215'	325'	
B 3-5' COAL	100' sks	215'	325'	
C 5/8" LS	To surface	325'	325'	

**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 9-17-84  
WELL NO. Woodford # 1038  
API NO. 47 - 013 - 3823

State of West Virginia  
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 Herschel Hay SOIL CONS. DISTRICT Little Kanawha SCD  
Revegetation to be carried out by Sterling Drilling & Prod. Co.-H.L.Berger (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 9/20/84

(Date)  
Ronald L. Atkinson  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure \_\_\_\_\_ (A)  
Size \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure Diversion Pitch (1)  
Material Earthen  
Page Ref. Manual 2-12

Structure Drainage Ditches (B)  
Location Roadside  
Page Ref. Manual 2-12

Structure Rip-Rap (2)  
Material Rock  
Page Ref. Manual 2-9

Structure Cross Drains -- Pipe (C)  
Spacing 300' for 6-10"  
Page Ref. Manual 2-8 Table 4

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.

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OIL & GAS DIVISION  
DEPT. OF MINES

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\* Ky-31 40 lbs/acre  
Ladino Clover 4 lbs/acre  
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\* Ky-31 40 lbs/acre  
Ladino Clover 4 lbs/acre  
lbs/acre

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

12/01/2023



PLAN PREPARED BY Richard Y. Campbell  
ADDRESS Route 1, Box 30  
Duck, WV 25063  
PHONE NO. (304) 364-5780

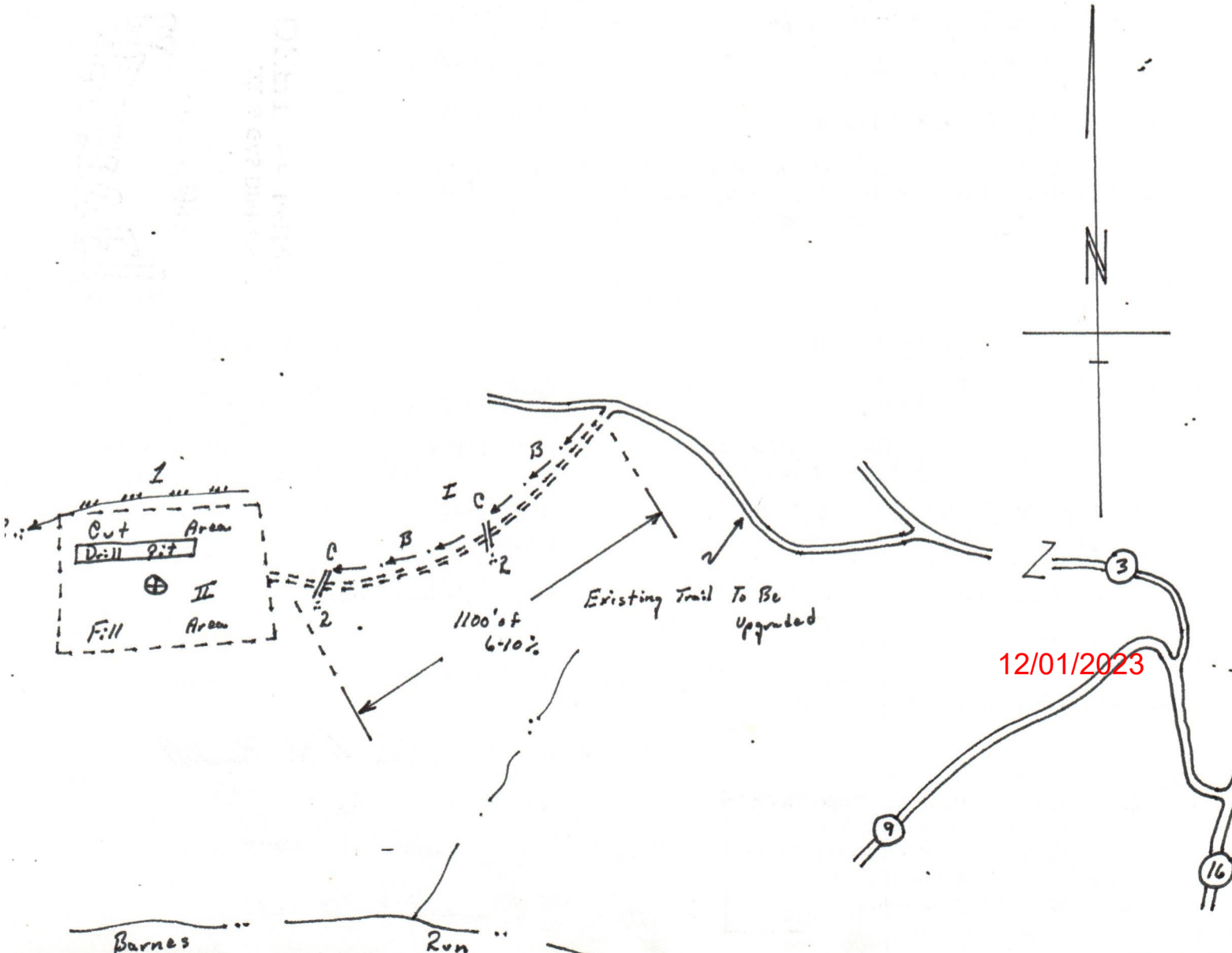
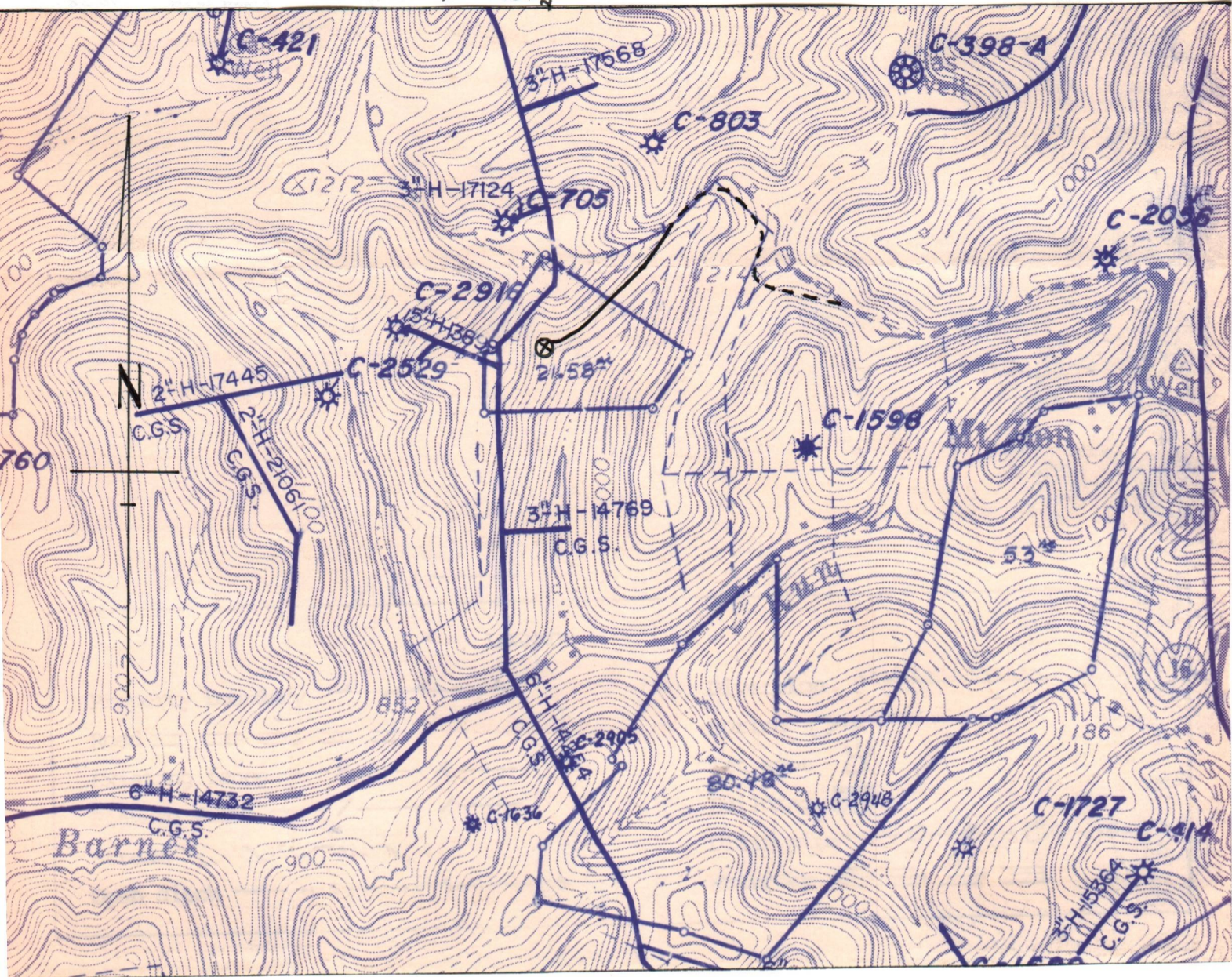
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

IV-9 REVERSE  
(REV 8-81)

INVOLVED TOPOGRAPHIC MAP  
QUADRANGLE 7 1/2' Arnoldsburg  
Arnoldsburg SW

LEGEND

Well Site   
Access Road 



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>
Delbert Woodford 120 S. Village Dr. Centerville, Ohio 42459	Sterling Drilling and Production Co., Inc.	1/8	15 / 370

1) Date: September 18, 1984  
2) Operator's Well No. 1038  
3) API Well No. 47-013-3823  
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 Herchel Hay  
Address 10345 TWP Road 15 NW  
Thornville, Ohio 43016  
(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 No

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

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

DEPT. OF MINES  
OIL & GAS DIVISION

RECEIVED  
SEP 28 1984

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

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

this 18 day of September, 1984.  
My Commission expires May 10, 1989.  
David M. Kellapie  
Notary Public, Kanawha County,  
State of West Virginia

12/01/2023

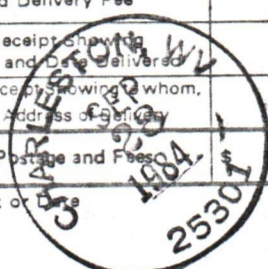
1037  
P 522 056 717  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>MYRTLE M. WEAVER</b>	
Street and No.	
P.O., State and ZIP Code <b>MT. ZION, W.V. 26151</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, Feb. 1982



1014  
P 522 056 718  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to  
**HOMER ROBERTS**

Street and No.

P.O., State and ZIP Code

**SANDRIDGE, W.V. 25274**

Postage \$

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to whom and Date Delivered

Date, and Address of Recipient

TOTAL Postage and Fees

Postmark or Date



RECEIVED

SEP 28 1984

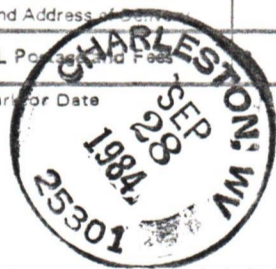
OIL & GAS DIVISION  
DEPT. OF MINES

1030  
P 522 056 719  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>BURLIN RICHARDS</b>	
Street and No.	
P.O., State and ZIP Code <b>MT. ZION, W.V. 26151</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	

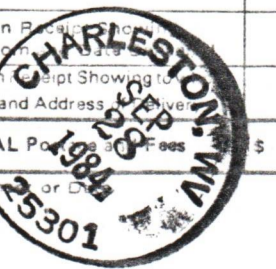


1031  
P 522 056 720  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>BURLIN R. RICHARDS</b>	
Street and No.	
P.O., State and ZIP Code <b>MT. ZION, W.V. 26151</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	



1043  
P 522 056 716  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>DONALD GUNN</b>	
Street and No.	
P.O., State and ZIP Code <b>MT. ZION, W.V. 26151</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, Feb. 1982



1038  
P 522 056 715  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>MERCEL HAY</b>	
Street and No. <b>15 NW 10345 TWP ROAD</b>	
P.O., State and ZIP Code <b>THORNVILLE, W.V. 26106</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, Feb. 1982



1051  
P 522 056 723  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>JACQUES TRUDEL</b>	
Street and No. <b>BOX 117-L OTTOSTAR RT.</b>	
P.O., State and ZIP Code <b>SPENCER, W.V. 25276</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Recipient	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, Feb. 1982



12/01/2023

OIL & GAS DIVISION  
DEPT. OF MINES

RECEIVED  
SEP 28 1984

1036  
P 522 056 721  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to <b>ERNEST MCCOY</b>	
Street and No.	
P.O., State and ZIP Code <b>MT-2104, W-V, 26151</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

1041  
P 522 056 722  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to <b>HOMER WILSON</b>	
Street and No. <b>2707 LENORE ST.</b>	
P.O., State and ZIP Code <b>PARKERSBURG, W.V. 26101</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

994  
522 056 724  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to  
**JAMES R. HAROLD**  
Street and No.  
P.O., State and ZIP Code  
**NEWTON, W.V.**  
Postage \$  
Certified Fee  
Special Delivery Fee  
Restricted Delivery Fee  
Return Receipt Showing to whom and Date Delivered  
Return Receipt Showing to whom, Date, and Address of Delivery  
TOTAL Postage and Fees \$  
Postmark or Date

1035  
P 522 056 725  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to  
**ERNEST MCCOY**  
Street and No.  
P.O., State and ZIP Code  
**MT 2104, W.V. 26151**  
Postage \$  
Certified Fee  
Special Delivery Fee  
Restricted Delivery Fee  
Return Receipt Showing to whom and Date Delivered  
Return Receipt Showing to whom, Date, and Address of Delivery  
TOTAL Postage and Fees \$  
Postmark or Date

1011  
P 522 056 726  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to  
**LEAH DAVIS**  
Street and No.  
P.O., State and ZIP Code  
**SANDRIDGE, W.V. 25274**  
Postage \$  
Certified Fee  
Special Delivery Fee  
Restricted Delivery Fee  
Return Receipt Showing to whom and Date Delivered  
Return Receipt Showing to whom, Date, and Address of Delivery  
TOTAL Postage and Fees \$  
Postmark or Date

1010  
P 522 056 727  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to  
**LEAH DAVIS**  
Street and No.  
P.O., State and ZIP Code  
**SANDRIDGE, W.V. 25274**  
Postage \$  
Certified Fee  
Special Delivery Fee  
Restricted Delivery Fee  
Return Receipt Showing to whom and Date Delivered  
Return Receipt Showing to whom, Date, and Address of Delivery  
TOTAL Postage and Fees \$  
Postmark or Date

984  
P 522 056 728  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Sent to  
**GROVER C. HOLCHIN, JR.**  
Street and No.  
**RT. 2 BOX 92**  
P.O., State and ZIP Code  
**MINDORA, W.V. 25263**  
Postage \$  
Certified Fee  
Special Delivery Fee  
Restricted Delivery Fee  
Return Receipt Showing to whom and Date Delivered  
Return Receipt Showing to whom, Date, and Address of Delivery  
TOTAL Postage and Fees \$  
Postmark or Date

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

CHARLESTON, WV  
SEP 28 1984  
25301

CHARLESTON, WV  
SEP 28 1984  
25301

CHARLESTON, WV  
SEP 28 1984  
25301

CHARLESTON, WV  
SEP 28 1984  
25301

CHARLESTON, WV  
SEP 28 1984  
25301

12/01/2023





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

PERFORATIONS

1st Stage- 20 holes 3522'-4418'  
 2nd Stage- 16 holes 2864'-3101'  
 3rd Stage- 15 holes 2506'-2773'

TREATMENT

1st Stage- 250 gals. 15% HCl; 1,500 MSCF N<sub>2</sub>  
 2nd Stage- 650 gals. 15% HCl; 1,300 MSCF N<sub>2</sub>  
 3rd Stage- 500 gals. 15% HCl; 589 MSCF N<sub>2</sub>

WELL LOG

# 1038

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
					All Depths from 10'KB
Sandstone and Shale			0	1002	
Sandstone			1002	1079	
Shale			1079	1152	
Sandstone			1152	1280	
Shale			1280	1290	
Sandstone			1290	1309	
Siltstone and Shale			1309	1603	
Salt Sand			1603	1771	
Shale			1771	1790	
Salt Sand			1790	1860	
Shale			1860	1864	
Maxon			1864	1892	
Little Lime			1892	1925	
Pencil Cave			1925	1931	
Big Lime			1931	2006	
Big Injun			2006	2084	
Silty Shale			2084	2410	
Sunbury Shale			2410	2432	
Berea			2432	2435	
Siltstone and Shale			2435	2757	
Gordon			2757	2786	
Shale			2786	4536	
Total Depth				4536	

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.

Well Operator

By: William E. Flower 12/01/2023  
 Date: October 14th, 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  
 all, encountered in the drilling of a well."

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

RECORDED  
DEPT. OF MINES ENERGY  
OIL AND GAS

APR 23 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3823 (11-5-84)

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

Company Sterling D & P.  
 Address \_\_\_\_\_  
 Farm Herchel Hay  
 Well No. 1038  
 District Sec County Cal  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

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

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

Drillers' Names \_\_\_\_\_

Remarks:  
Release Reclamation

4-19-86  
DATE

D W Mac  
DISTRICT WELL INSPECTOR

12/01/2023



**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 - 3823 -
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.)	4536
4.0 Name, address and code number of applicant: (25 letters per line maximum. If code number not available, leave blank.)	<p align="center"><b>RECEIVED</b> OCT 16 1985 DIVISION OF OIL &amp; GAS DEPARTMENT OF ENERGY 018084 Seller Code</p> <p align="center">Sterling Drilling and Production Co. Inc.</p> <p>Name 710 Virginia St. East, Arcade Building</p> <p>Street Charleston, WV 25301</p> <p>City State Zip Code</p>
5.0 Location of this well: (Complete (a) or (b).)	<p>Lee</p> <p>Field Name Calhoun</p> <p>County State WV</p>
(a) For onshore wells (25 letters maximum for field name.)	
(b) For OCS wells:	<p>Area Name Block Number</p> <p>Date of Lease: Mo. Day Yr. OCS Lease Number</p>
(c) Name and identification number of this well: (25 letters and digits maximum.)	Woodford #1038
(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.)	Consolidated Natural Gas Name Buyer Code
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated total annual production from the well:	14.58 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 6.076	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 6.076	---	---	---

9.0 Person responsible for this application:	<p align="center">William E. Stover</p> <p>Name</p> <p align="center"><i>William E. Stover</i></p> <p>Signature</p> <p align="center">10/14/85</p> <p>Date Application is Completed</p>	<p align="center">Designated Agent</p> <p>Title</p> <p align="center">304-342-0121</p> <p>Phone Number</p>
--	---	--

Agency Use Only

Date Received by Juris. Agency  
**OCT 16 1985**

Date Received by FERC

12/01/2023

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 -1073-019-3823

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

Use Above File Number on all Communications Relating to This Well

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

SDP #1038

First Purchaser: Consolidated Natural Gas

Designated Agent: William E. Stover

Address: 445 West Main Street  
(Street or P.O. Box)  
Clarksburg, WV 26301  
(City) (State) (Zip Code)

Address: 710 Virginia St., E, Arcade Bldg  
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: (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
- 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 Buildup

AGENCY USE ONLY

QUALIFIED

12/01/2023

RECEIVED  
OCT 16 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

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

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.: 47-013-3823 Well Name: Woodford (1038)

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 = 155 \* API Units
2. Remarks:

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

1. GR Value = 109 \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (155 *)}} = \underline{109}$  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***		
2435	4525	2090	29

Total Devonian Interval 2090

Total Less Than 0.7 (Shale Base)

29

% Less Than 0.7 (Shale Base Line) =  $\frac{0.0138}{2090} \times 100 = \underline{1.4}$  %

\*Marked on log included with analysis.

12/01/2023

\*\*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 ENERGY, OIL AND GAS DIVISION

Operator's Well No. 1038

API Well No.

47 - 013 - 3823  
State County Permi

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

LOCATION Elevation 1029.13'

WELL OPERATOR Sterling Drilling & Prod. Co., Inc. Watershed Barnes Run

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

Dist. Lee County Calhoun Quad. Arnoldsb

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

GAS PURCHASER Consolidated Natural Gas

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

ADDRESS 445 West Main Street  
Clarksburg, WV 26301

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

\* \* \* \* \*

Date surface drilling began: July 21, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$t = 60 + (0.0075 \times 4536) + 459.67 = 553.69$ .  $X = \frac{1}{53.34} / \frac{553.69}{1} = 0.00003$

$Pf = 700 \times 2.7183 \times 0.00003386 \times 0.690 \times 1.08 \times 3462 = 763.89$  PSI

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)(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.

William E. Stover

STATE OF WEST VIRGINIA

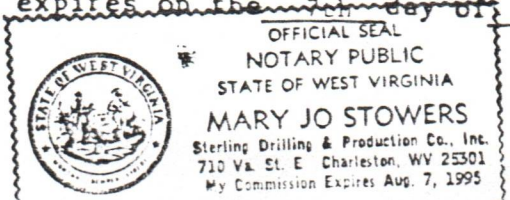
COUNTY OF Kanawha, TO-WIT:

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, 1912/01/2023, 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



15' LATITUDE

4550'

7 1/2' LATITUDE 38° 52' 30"

REFERENCE POINTS

PROPOSED LOCATION TO:

3' STK. SET - N68°57'W - 101.9'  
3' STK. SET - N61°06'E - 189.0'

MAGNETIC NORTH

7 1/2' TOPO LOCATION

7 1/2' LONGITUDE 81° 07' 30"

15' LONGITUDE

4550'

C-421

C-398-A

88°21'E - 487.10'

C-705

88°4'E - 1105.8' DEED

C-803

CALL W.O.

TOP KNOB EL. 1214'

N33°E - 759' DEED

HY. COR. ON KNOB CALL PTRS.

C-2916

PROPOSED LOCATION

C-2056

C-2529

NORTH - 420.75' DEED &  
N16°19'E - 421.88' MAG.

DELBERT  
WOODFORD, ET. AL.

21°

S55°03'W  
647.84'

NORTH - 420.75' DEED &  
N16°19'E - 421.88' MAG.

W.O. COR. CALL PTRS.

WEST - 1122' DEED

CALL ROCK

S32°W - 462' DEED

CALL STK. PTRS.

C-1598

C-2905

Barnes Run

C-1636

C-2498

M-31, PG. 5

FILE NO. 042-208  
MAP NO. 58-C  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION U.S.G.S. DATA TOP OF KNOB SHOWN EL. 1214'

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 SEPT. 3, 19 84  
OPERATOR'S WELL NO. 1038  
API WELL NO. 47-013-3823  
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 \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1029.13' WATER SHED BARNES RUN  
DISTRICT LEE COUNTY CALHOUN  
QUADRANGLE 7 1/2' ARNOLDSBURG (ARNOLDSBURG S.W.)

SURFACE OWNER MERCHEL HAY ACREAGE 21.58  
OIL & GAS ROYALTY OWNER DELBERT WOODFORD, ET. AL. LEASE ACREAGE 21  
LEASE NO. 042-208

12/01/2023

PROPOSED WORK: DRILL X 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 5000'  
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, WY 25301