

1) Date: September 18, 1984
2) Operator's Well No. 1041
3) API Well No. 47 013 3817
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 Homer Wilson
Address 2707 Lenore St.
Parkersburg, W.V. 26101
(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.

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 18 day of September, 1984. My commission expires May 10, 1989.
David M. Hillapic
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

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
SEP 28 1984

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
James E. Duskey 1326 Broadway Ave. Parkersburg, W.V. 26101	Sterling Drilling and Production Co., Inc.	1/8	14/466
Dollie Gillespy			
Jessie E. Husk			
Edna Kingsbury			
Ruby Parrish			
Mont Dusky			
Grace Elmore			
Tensie Dusky			
Faustine McCartney			
Elva Wilson			

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 ERNEST MCCOY	
Street and No.	
P.O., State and ZIP Code MT. ZION, 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	SEP 28 1984 CHARLESTON, WV 25301

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

(See Reverse)

Sent to HOMER WILSON	
Street and No. 2707 LENORE ST.	
P.O., State and ZIP Code PARKERSBURG, W.V. 26101	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	12/01/2023
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	SEP 28 1984 CHARLESTON, WV 25301

PS Form 3800, Feb. 1982

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 LEWISTON, 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	SEP 28 1984 CHARLESTON, WV 25301

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. ZION, 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	SEP 28 1984 CHARLESTON, WV 25301

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 SAUBRIDGE, 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	SEP 28 1984 CHARLESTON, WV 25301

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 SAUBRIDGE, 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	SEP 28 1984 CHARLESTON, WV 25301

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

(See Reverse)

Sent to GROVER C. HOLCHMID, JR.	
Street and No. RT. 2 BOX 92	
P.O., State and ZIP Code MINNDRRA, 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	SEP 28 1984 CHARLESTON, WV 25301

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

PS Form 3800, Feb. 1982

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

Perforations:

- 1st Stage- 26 holes 4300'-5025'
- 2nd Stage- 20 holes 3546'-4148'
- 3rd Stage- 18 holes 2627'-3384'

Treatment:

- 1st Stage- 850 gals.15% HCl; 1,715 MSCF N₂
- 2nd Stage- 850 gals.15% HCl; 1,500 MSCF N₂
- 3rd Stage- 950 gals.15% HCl; 1,400 MSCF N₂

WELL LOG
#1041

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	1548	
Salt Sand			1548	1613	
Shale			1613	1675	
Salt Sand			1675	1757	
Sandstone and Shale			1757	1880	
Little Lime			1880	1913	
Pencil Cave			1913	1916	
Big Lime			1916	2058	
Big Injun			2058	2067	
Silty Shale			2067	2395	
Sunbury Shale			2395	2418	
Berea			2418	2421	
Siltstone and Shale			2421	2774	
Shale			2774	4848	
Siltstone and Shale			4848	4940	Top of Java Formation @ 4661'
Shale			4940	5061	Top of Angola shale @ 4882'
Siltstone			5061	5094	
Shale			5094	5135	
Total Depth			5135	5135	

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.
Well Operator 12/01/2023
By: Harry J. Bergend
Date: 5-22-89

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 ... encountered in the drilling of a well."

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

RECEIVED
FEB 21 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 13-3817

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Duskey
 Well No. 1041
 District Lee County Cal.
 Drilling commenced _____
 Drilling completed 2-15-85 Total depth 5125
 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 Hunt 1

Remarks:
 322' 9 5/8" casing, 115 SKS cement, Dow., 2-10-85
 2220' 7" " 175 cement, Dow.
 3099' 4 1/2" " - logging hole BPM
2-15-85

DATE

W. M. ... 12/01/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

Company: STERLING DRILLING Permit No. 47- 13-3817 (11-1-84)
Farm: WILSON, HOMER Well: DUSKEY 1041 County: CALHOUN

APR 23 1986

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepared before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water 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	-----	-----
16.01	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 4-19-86

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.
Administrator

April 29, 1986
Date

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

FILED
JAN 13 2023

Permit No. 47-13-3017
COUNTY: MORGAN

Well ID: 47-13-3017-001

Well Name: WILSON, HOMER
Operator: STERLING DRILLING

Item	In Compliance	Yes	No
1.01 Required permits for wellbore			
1.02 Adequate wellbore casing			
1.03 Adequate well casing			
1.04 Adequate production casing			
1.05 Adequate cement			
1.06 Cement type			
1.07 Maintained access roads			
1.08 Necessary barriers to prevent leaks			
1.09 Required drilling pits			
1.10 No surface or underground pollution			
1.11 Requirements for production & gathering pipelines			
Well Record on file			
Well Record filed			
Well Identification Markers			

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

SIGNED: _____
DATE: _____

Your well record has received and registration requirements approved. In accordance with Chapter 20, Article 4, Section 2, the above well will remain under bond guarantee for the life of the well.

[Handwritten Signature]
Administrator

DATE: _____

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank, 14 digits.)	47 - 013 - 3817										
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.)	5135 feet										
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Sterling Drilling and Production Co. Inc.</u> 018084 <small>Name Seller Code</small> <u>710 Virginia St. East, Arcade Building</u> <small>Street</small> <u>Charleston, WV 25301</u> <small>City State Zip Code</small>										
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.) (b) For OCS wells:	<u>Lee District</u> <small>Field Name</small> <u>Calhoun</u> <small>County State WV</small> <hr/> <small>Area Name Block Number</small> <hr/> <small>Date of Lease:</small> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> <td style="border: 1px solid black; width: 15px; height: 15px;"></td> </tr> <tr> <td align="center">Mo.</td> <td align="center">Day</td> <td align="center">Yr.</td> <td colspan="2"></td> </tr> </table> <hr/> <small>OCS Lease Number</small>						Mo.	Day	Yr.		
Mo.	Day	Yr.									
(c) Name and identification number of this well: (35 letters and digits maximum.) (d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>Duskey #1041</u> <hr/>										
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:	<u>UNDEDICATED</u> <small>Name Buyer Code</small> <hr/> <small>Mo. Day Yr.</small>										
(c) Estimated total annual production from the well:	13.5 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 9 8 2	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	5 9 8 2	-----	-----	-----

9.0 Person responsible for this application:	<u>Harry V. Berger, Jr.</u> <small>Name Designated Agent</small> <small>Signature</small> <u>May 21, 1985</u> <small>Date Application is Completed</small>	<u>Desigant Agent</u> <small>Title</small> <hr/> <u>304-342-0223</u> <small>Phone Number</small>
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Agency Use Only

Date Received by Juris. Agency
MAY 23 1985

Date Received by FERC

JUN 14 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

47-013-3817

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

850523 -1073-013 -3817

Charleston, WV 25301

Gas Purchaser Contract No. _____

Use Above File Number on all
Communications Relating to This W

Date of Contract _____
(Month, day and year)

SDP #1041

First Purchaser: UNDEDICATED P 629

Designated Agent: Harry L. Berger, J

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.
(Print)

Agent
(Title)

Signature: Harry L. Berger, Jr.

Address: Sterling Drilling & Prod. Co., Inc.
710 Virginia St., E., Arcade Bldg.
(Street or P.O. Box)

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

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

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas

- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

108 Stripper Well Natural Gas

- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Bu

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

AGENCY USE ONLY

12/01/2023

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.: 47-013-3817 Well Name: #1041 Duskey

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 = 112 * API Units

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

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***		
<u>2421'</u>	<u>5108</u>	<u>2687'</u>	<u>73</u>

Total Devonian Interval 2687

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $\frac{0.0271}{73} \times 100 = \underline{\underline{2.7}} \%$

12/01/2023

*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. Duskey #1041

API Well No.
47 - 013 - 3817
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 978.01'

WELL OPERATOR Sterling Drilling & Production Co Watershed Barnes Run

ADDRESS 710 Virginia Street, East
Charleston, WV 25301

Dist. Lee County Calhoun Quad. Arnbh 7 1/2'

Gas Purchase
Contract No. _____

GAS PURCHASER UNDEDICATED

Meter Chart Code _____

ADDRESS _____

Date of Contract _____

* * * * *

Date surface drilling began: February 9, 1985

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5135) + 459.67 = 558 \quad x = \frac{1}{53.34} \times 558 = .0000336$$

$$Pf = 850 \times 2.7183 \times .0000336 \times 3826 \times .690 \times 1.08 = 935 \text{ PSIA}$$

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

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



IV-9
(Rev 8-81)

RECEIVED

SEP 28 1984

State of West Virginia

Department of Mines
Oil and Gas Division

DATE 9-15-84

WELL NO. Duskey # 1041

API NO. 47 - 013 - 3817

OIL & GAS DIVISION
DEPT. OF MINES

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 Toanna Duskey 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)

Randall L. Atkinson
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culverts (A)

Structure Diversion Ditch (1)

Size 20"

Material Earthen

Page Ref. Manual 2-8 Table 3

Page Ref. Manual 2-12

Structure Drainage Ditches (B)

Structure Rip-Rap (2)

Location Roadside

Material Rock

Page Ref. Manual 2-12

Page Ref. Manual 2-9

Structure Cross Drains -- Pipe (C)

Structure _____ (3)

Spacing 200' for 11-15% - 400' for 2-5%

Material _____

Page Ref. Manual 2-8 Table 4

Page Ref. Manual _____

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime 2 Tons/acre
or correct to pH 6.5

Lime 2 Tons/acre
or correct to pH 6.5

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

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

Mulch Hay or Straw 2 Tons/acre

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Seed* Ky-31 40 lbs/acre

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Ladino Clover 4 lbs/acre

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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 A. Campbell

ADDRESS Route 1, Box 30

Duck, WV 25063


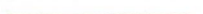
PHONE NO. (304) 364-5780

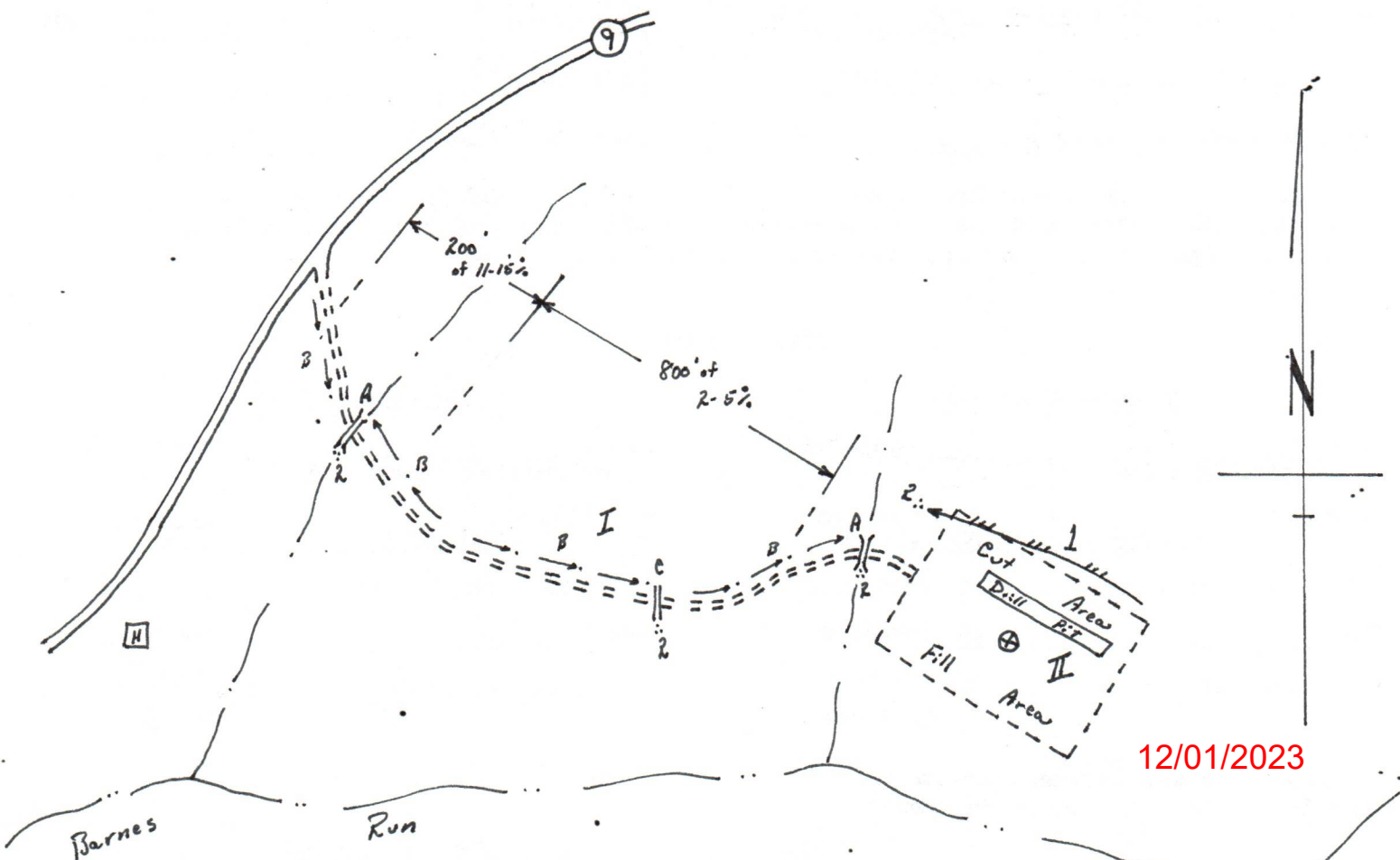
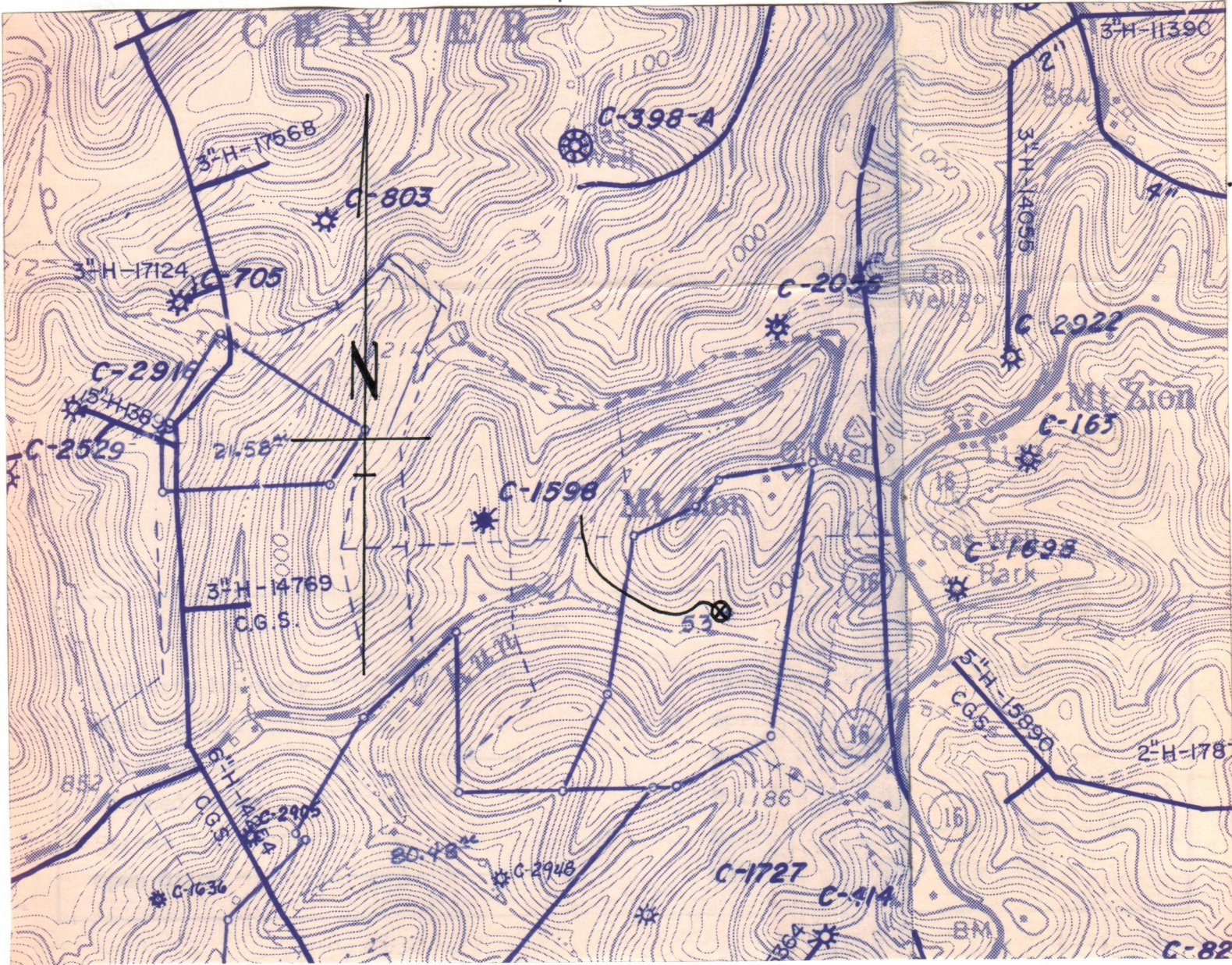
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

IV-9 REVERSE
(REV 6-81)

INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 7½' Arnoldsburg
Arnoldsburg SW

LEGEND

Well Site 
Access Road 





Date: September 18, 1984
 2) Operator's Name: James E. Duskey #1041
 Well No. 013 3817
 3) AP Well No. 47 State 013 County 3817 Permit

RECEIVED

SEP 28 1984

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

- OIL & GAS DIVISION**
DEPT. OF MINES
- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production)
- 5) LOCATION: Elevation: 978.01' / Underground storage / Deep / Shallow /
 District: Lee / Watershed: Barnes Run / County: Calhoun / Quadrange: 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, 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, 4975 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		300'	300'	To Surface	<u>NEAT</u>
Coal									Sizes
Intermediate	7"	J-55	20#	X		2180'	2180'	100 sks	
Production	4 1/2	ERW	10.5#	X			4975'	250 sks	Depths set
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3817 Date November 1 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 November 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>148</u>	Agent: <u>MU</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>7888</u>
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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.
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

12/01/2023

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SEP 28 1984

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

1. WELL OPERATOR: 220 E 42nd St, 33rd Floor, New York, New York 10017
 2. LOCATION: 220 E 42nd St, 33rd Floor, New York, New York 10017
 3. WELL DEPTH: 300'
 4. PROPOSED WELL WORK: Drilling, Completion, Other
 5. GEOLOGICAL TARGET FORMATION: BRUNN SHALE
 6. APPROXIMATE DATE OF COMPLETION: 10/25/84
 7. APPROXIMATE DATE OF INSPECTION: 10/25/84
 8. APPROXIMATE DATE OF PERMIT EXPIRATION: 10/25/84

DEPTH (FEET)	FORMATION	REMARKS
0 - 100	BRUNN SHALE	Drilling
100 - 250	BRUNN SHALE	Drilling
250 - 300	BRUNN SHALE	Drilling

OFFICE USE ONLY

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

Event	Date	Date(s)
Application received	November 1, 1984	
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____