



1) Date: November 18, 19 83
 2) Operator's Well No. 865
 3) API Well No. 47 - 013 - 3678
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 1026.22' Watershed: Beech Fork
 District: Washington County: Calhoun Quadrangle: 7 1/2' Tariff _____
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. DESIGNATED AGENT Harry L. Berger, Jr.
 Address 360 Madison Ave. Fifth Floor Address 710 Virginia St., E.
New York, New York, 10017 Charleston, W.V. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace
 Address Rt. 1 Box 5
Sandridge, W.V. 25274
- 9) DRILLING CONTRACTOR: Name UNKNOWN AT THIS TIME
 Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, BROWN SHALE
 12) Estimated depth of completed well, 5350 feet
 13) Approximate trata 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

RECEIVED
 DEC 2 - 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

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		Kind	Size
Conductor										
Fresh water	9 5/8	LS	33#	X		300'	300'	To Surface		by rule 15.05
Coal										
Intermediate	7"	J-55	20#	X		1985'	1985'	100 sks		
Production	4 1/2	ERW	10.5#	X			5350'	250 sks		Depth sec reg by rule 15.01
Tubing										
Liners										

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3678

December 15, 19 83
 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 December 15, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
BLANKET BOND	<u>LO</u>	<u>MH</u>	<u>MH</u>	<u>5951</u>

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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



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

OFFICE USE ONLY

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

1) WELL LOCATION: B (If Gas) Production _____ Underground storage _____
 Elevation: _____
 District: _____
 County: _____
 Quarter: _____
 Township: _____
 Range: _____
 Section: _____
 2) WELL OPERATOR: _____
 Address: _____
 3) OIL & GAS INSPECTOR TO BE NOTIFIED: _____
 Name: _____
 Address: _____
 4) PROPOSED WELL WORK: _____
 Plug off old formation _____
 Perforate new formation _____
 Other physical change in well (specify): _____
 5) GEOLOGICAL TARGET FORMATION: _____
 6) Estimated depth of completed well: _____ feet
 7) Approximate true depths: Fresh _____ feet
 Salt _____ feet
 Is coal being mined in the area? Yes _____ No _____
 8) CASING AND TUBING PROGRAM: _____

RECEIVED
 DEC 2 - 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SIZE	GRADE	SPECIFICATIONS		FOOTAGE INTERVALS	CEMENT FILLER OR SACKS (Cubic feet)	PACKERS
			Weight per ft.	Grade			
Conductor	4 1/2"	LS	28.7	X	300'		
Fresh water	4 1/2"	LS	28.7	X	300'		
Cost							
Intermediate	4 1/2"	LS	28.7	X	300'		
Production	4 1/2"	LS	28.7	X	300'		
Tubing							
Lines							

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:	Agent:	Plat.:	Casing:	Fee:

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.

05/17/2024

SURFACE OWNER'S COPY



1) Date: November 18, 19 83
 2) Operator's Well No. 865
 3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X _____
 B (If "Gas", Production X _____ / Underground storage _____ / Deep _____ / Shallow X _____)
- 5) LOCATION: Elevation: 1026.22' Watershed: Beech Fork
 District: Washington County: Calhoun Quadrangle: 7 1/2' Tariff
- 6) WELL OPERATOR Searling Drilling & Prod. Co., Inc. 7) DESIGNATED AGENT Harry L. Berger, Jr.
 Address 360 Madison Ave. Fifth Floor Address 710 Virginia St., E.
New York, New York, 10017 Charleston, W.V. 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace Name UNKNOWN AT THIS TIME
 Address Rt. 1 Box 5 Address _____
Sandridge, W.V. 25274
- 10) PROPOSED WELL WORK: Drill X _____ / 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, 5350 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes _____ / No X _____

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>9 5/8</u>	<u>LS</u>	<u>33#</u>	<u>X</u>		<u>300'</u>	<u>300'</u>	<u>To Surface</u>	
Coal									Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>1985'</u>	<u>1985'</u>	<u>100 sks</u>	
Production	<u>4 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5350'</u>	<u>250 sks</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

Debol Bischoff Date: 12-11-83
 (Signature)

By _____

Its _____ Date _____

 (Signature) Date: _____

05/17/2024
 Surface Owner

**INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- “(1) The proposed well work will constitute a hazard to the safety of persons; or
- “(2) The plan for soil erosion and sediment control is not adequate or effective; or
- “(3) Damage would occur to publicly owned lands or resources; or
- “(4) The proposed well work fails to protect fresh water sources or supplies.”

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

1) Date: November 18, 1983
2) Operator's Well No. 865
3) API Well No. 47-013-3678
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 Sibyl Pischke
Address 1401 N.E. 35th St.
Ft. Lauderdale, Fla. 33334
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR UNOPERATED
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name UNKNOWN NONE
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, 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.

RECEIVED
DEC 2 - 1983
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

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.

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 November, 1983.
My commission expires May 10, 1989.
David M. Gillespie
Notary Public, Kanawha County,
State of West Virginia

05/17/2024

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

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

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

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

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

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

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

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

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Sibyl Pischke 1401 N.E. 35th St. FT. LAUDERDALE, FLA.	STERLING DRILLING	1/8	081/281

05/17/2024

IV-35
(Rev 8-81)

RECEIVED
AUG 16 1984



OIL & GAS DIVISION
DEPT. OF MINES State of West Virginia
Department of Mines
Oil and Gas Division

Date 8/3/84
Operator's
Well No. 865
Farm Pischke
API No. 47 - 013 - 3678

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: 1026.22 Watershed Beech Fork
District: Washington County Calhoun Quadrangle Tariff 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.
ADDRESS 710 Virginia St., E, Charleston, WV
DESIGNATED AGENT Harry L. Berger, Jr. ²⁵³⁰¹
ADDRESS 710 Va. St., E. Charleston, WV 25301
SURFACE OWNER Sibyl Pischke
ADDRESS 1401 NE 35th St. Ft. Lauderdale, FL 33334
MINERAL RIGHTS OWNER Sibyl Pischke
ADDRESS SAME
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Rt 1, Box 5, Sandridge, WV
²⁵²⁷⁴
PERMIT ISSUED December 15, 1983
DRILLING COMMENCED May 12, 1984
DRILLING COMPLETED May 18, 1984
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	319'	319'	170 sks
8 5/8			
7	2014'	2014'	175 sks
5 1/2			
4 1/2		5339'	290 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5350 feet
Depth of completed well 5362 feet Rotary X / Cable Tools
Water strata depth: Fresh 160 feet; Salt 510 feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Devonian Brown Shale Pay zone depth 3238-5037 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 289 Mcf/d Final open flow Show Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1260 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

05/17/2024

Cal. 3678

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

Perforations:

1st Stage: 20 holes from 4594' - 5037'
 2nd Stage: 25 holes from 3859' - 4434'
 3rd Stage: 20 holes from 3238' - 3727'

Treatment:

1st Stage: 1000 gals of 15% HCl; 1348 MSCF of N₂
 2nd Stage: 1000 gals of 15% HCl; 1509 MSCF of N₂
 3rd Stage: 750 gals of 15% HCl; 1342 MSCF of N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fr and salt water, coal, oil and
Soil			0	6	
Sandstone and Shale			6	488	Fresh water @ 160'
Sandstone			488	572	Salt water @ 510'
Sandstone and Shale			572	1360	
Salt Sand			1360	1490	
Shale			1490	1498	
Salt Sand			1498	1512	
Shale			1512	1546	
Salt Sand			1546	1601	
Shale			1601	1632	
Maxon			1632	1671	
Little Lime			1671	1735	
Pencil Cave			1735	1739	
Big Lime			1739	1886	
Big Injun			1886	1902	
Siltstone and Shale			1902	2214	
Sunbury Shale			2214	2225	
Siltstone and Shale			2225	2734	
Shale			2734	4610	Gas shows 3238' - 3727'
Siltstone			4610	4639	3859' - 4434'
Shale			4639	4772	4594' - 5037'
Siltstone			4772	4872	
Shale			4872	5362	TD 5362

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., 05/17/2024
 Well Operator

By:

Harry J. Berg

Date:

8-3-84

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

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

RECEIVED
MAY 23 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3678

Oil or Gas Well
(KIND)

Company Sterling
 Address _____
 Farm Pischoke
 Well No. 865
 District Wash County Cal.
 Drilling commenced 5-12-84
 Drilling completed 5-18-84 Total depth 5350'
 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 _____ bbla., 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 Charlie Moore 2

Remarks:
318' of 9 5/8" casing, 170 SPS cement, 5-13-84, Halibenton
2014' 7" " 175 SPS " , 5-16-84. " "

5-18-84
DATE

D. S. Mace
DISTRICT WELL INSPECTOR

DATE 05/17/2024

2/16/82

RECEIVED

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

05/17/2024

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 - 3678

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

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 5362 feet

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)
Sterling Drilling and Production Co. 018084
Name 710 Virginia St. East, Arcade Building
Street Charleston, WV 25301
City State WV Zip Code

5.0 Location of this well: (Complete (a) or (b).)
(a) For onshore wells (25 letters maximum for field name.)
Washington District
Field Name Calhoun
Country State WV Zip Code
(b) For OCS wells:
Area Name Block Number
Date of Lease: Mo. Day Yr. OCS Lease Number
Pischke #865

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum.)
UNDEDICATED
Name Buyer Code
(b) Date of the contract: Mo. Day Yr.

(c) Estimated total annual production from the well: 8 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	<u>5.834</u>	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.) S/MMBTU	<u>5.834</u>	---	---	---

9.0 Person responsible for this application:
Agency Use Only
Date Received by Juris. Agency AUG 16 1984
Date Received by FERC
Name Harry L. Berger, Jr. Designated Agent
Signature Harry L. Berger, Jr. Title
Date Application is Completed August 3, 1984
Phone Number 304-342-0121

RECEIVED
AUG 16 1984
DEPT. OF MINES
OIL & GAS DIVISION

05/17/2024

SEP 13 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 3, 19 84

AGENCY USE ONLY

DV

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

WELL DETERMINATION FILE NUMBER

Address: 710 Virginia Street, E. Arcade Bldg

840816 - 107-013 - 3678

Charleston, WV 25301

Use Above File Number on all Communications Relating to This Well

Gas Purchaser Contract No.

Date of Contract (Month, day and year)

Designated Agent: Harry L. Berger, Jr.

First Purchaser: UNDEDICATED

Address: Sterling Drilling & Prod. Co., Inc.

Address: (Street or P.O. Box)

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

(City) (State) (Zip Code)

FERC Seller Code 018084

FERC Buyer Code

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

Name: Harry L. Berger, Jr. Agent (Print) (Title)

Signature: [Signature]

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 Buildup

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

AGENCY USE ONLY

QUALIFIED 05/17/2024

RECEIVED

AUG 16 1984

OIL & GAS DIVISION
DEPT. OF MINES

SEP 13 1984

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Pischke #865

API Well No.

47 - 013 - 3678
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 1026.22

WELL OPERATOR Sterling Drilling and Production Watershed Beech Fork
Co., Inc.
ADDRESS 710 Virginia St., East Dist. Washington County Calhoun Quad. Tariff 7 1/2
Charleston, WV 25301

GAS PURCHASER UNDEDICATED
ADDRESS

Gas Purchase
Contract No.

Meter Chart Code

Date of Contract

* * * * *

Date surface drilling began: May 12, 1984

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times 5367) + 459.67 = 560 \quad X = \frac{1}{53.34} \times 560 = .0000335$$

$$Pf = 1260 \times 2.7183 \times .0000335 \times 4138 \times 1690 \times 1.09 = 1398 \text{ PSIA}$$

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 3 day of August, 1984, has acknowledged the same before me, in my county aforesaid.

05/17/2024

Given under my hand and official seal this 3 day of August, 1984.
My term of office expires on the 27 day of October, 1991.

JoAnn K. Brooks
Notary Public

(NOTARIAL SEAL)

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

Operator: _____ Agent: _____
 Type Determination being sought - 107 (Devonian Shale)
 API Well No.: 47-013-3678 Well Name: Pischke # 865
 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: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (160 *)}} = \underline{112}$ API Units

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

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
<u>2235</u>	<u>5372</u>	<u>3137</u>	<u>91</u>

Total Devonian Interval 3137

Total Less Than 0.7 (Shale Base) 91

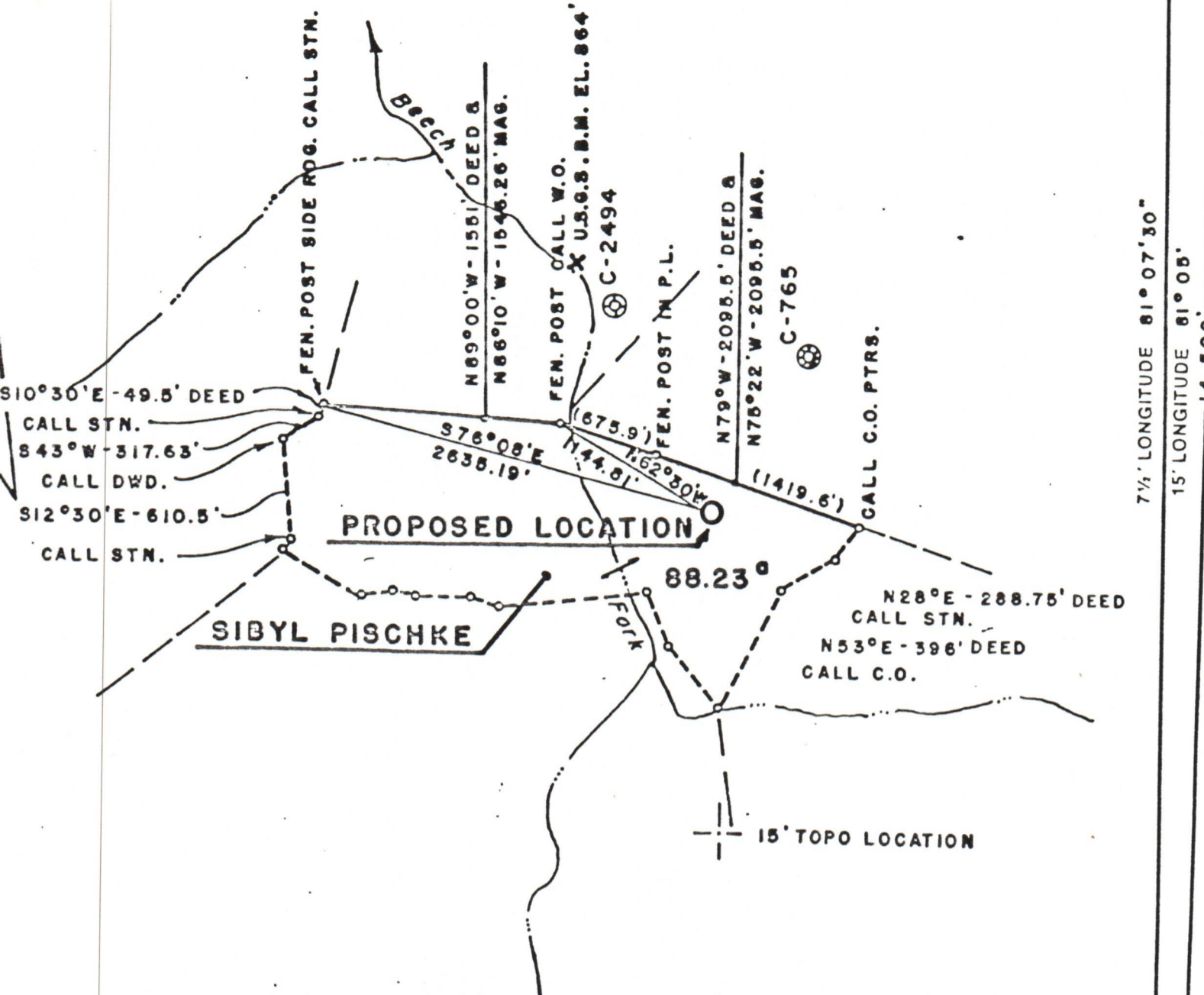
% Less Than 0.7 (Shale Base Line) = $\frac{0.0290}{1} \times 100 = \underline{2.9\%}$

05/17/2024

*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.

15' LATITUDE 38° 40'

7 1/2' LATITUDE 3 42' 30"



7 1/2' LONGITUDE 81° 07' 30"

15' LONGITUDE 81° 05' 14.500"

B. H-26, PG. 45

7 1/2' TOPO LOCATION

FILE NO. 045-045 NO. 22
 MAP NO. 74-A
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. EL. 864'
 HOWN EL. 864'

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 (78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE NOV. 16, 19 83
 OPERATOR'S WELL NO. 865
 API WELL NO. EXP. 12/15/85
47-013-3678
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1026.22' WATERSHED BEECH FORK
 DISTRICT WASHINGTON COUNTY CALHOUN
 QUADRANGLE 7 1/2' TARIFF (OTTER N.W.)

SURFACE OWNER SIBYL PISCHKE ACREAGE 88.23
 OIL & GAS ROYALTY OWNER SIBYL PISCHKE LEASE ACREAGE 88.23

LEASE NO. 045-045

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 5350'
 OPERATOR STERLING DRILLING & PRODUCTION CO. INC. AGENT HARRY L. BERGER
 ADDRESS 360 MADISON AVE. - 5TH FLOOR ADDRESS 710 VIRGINIA ST. E

05/17/2024



DATE 11-28-83
WELL NO. Pischke # 865
API NO. 47-013-3678

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Sterling Drilling & Prod. Co WELL OPERATOR Sterling Drilling & Prod
Address 360 Madison Ave.- NY, NY 10017 Address c/o H.L. Berger - Chars., WV
Telephone (212) 949-9100 Telephone (304) 342-0121

LANDOWNER Sibyl Pischke 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: 11-30-83 (Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>Side 12"</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-8</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Drainage Ditches</u> (B)	Structure <u>Rip-Rap</u> (2)
Spacing <u>Roadside</u>	Material <u>Rock</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-9</u>
Structure <u>Cross Ditches Drains</u> (C)	Structure _____ (3)
Spacing <u>12" culvert - 200' spacing</u>	Material _____
Page Ref. Manual <u>2-8 Table 4</u>	Page Ref. Manual _____

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

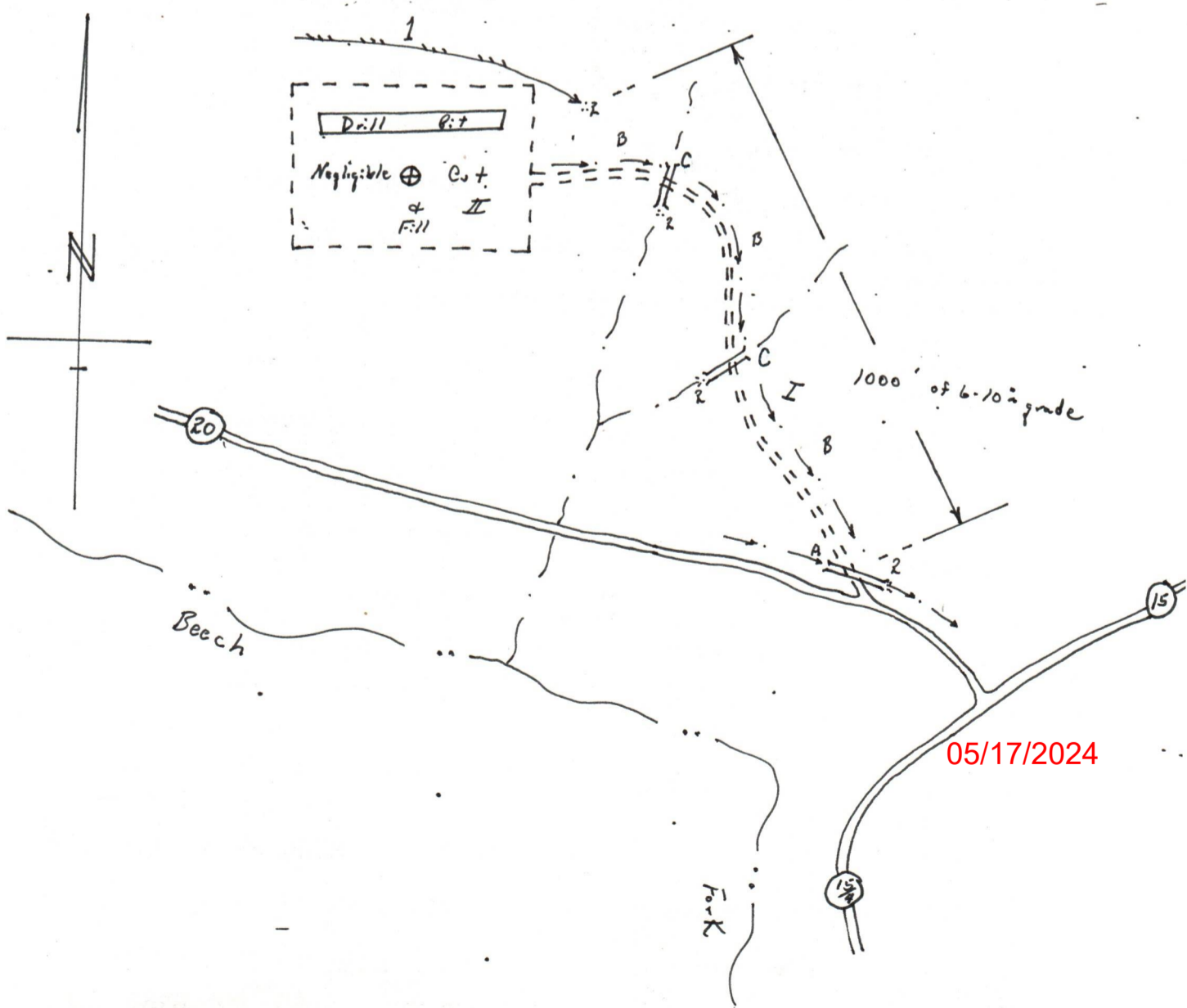
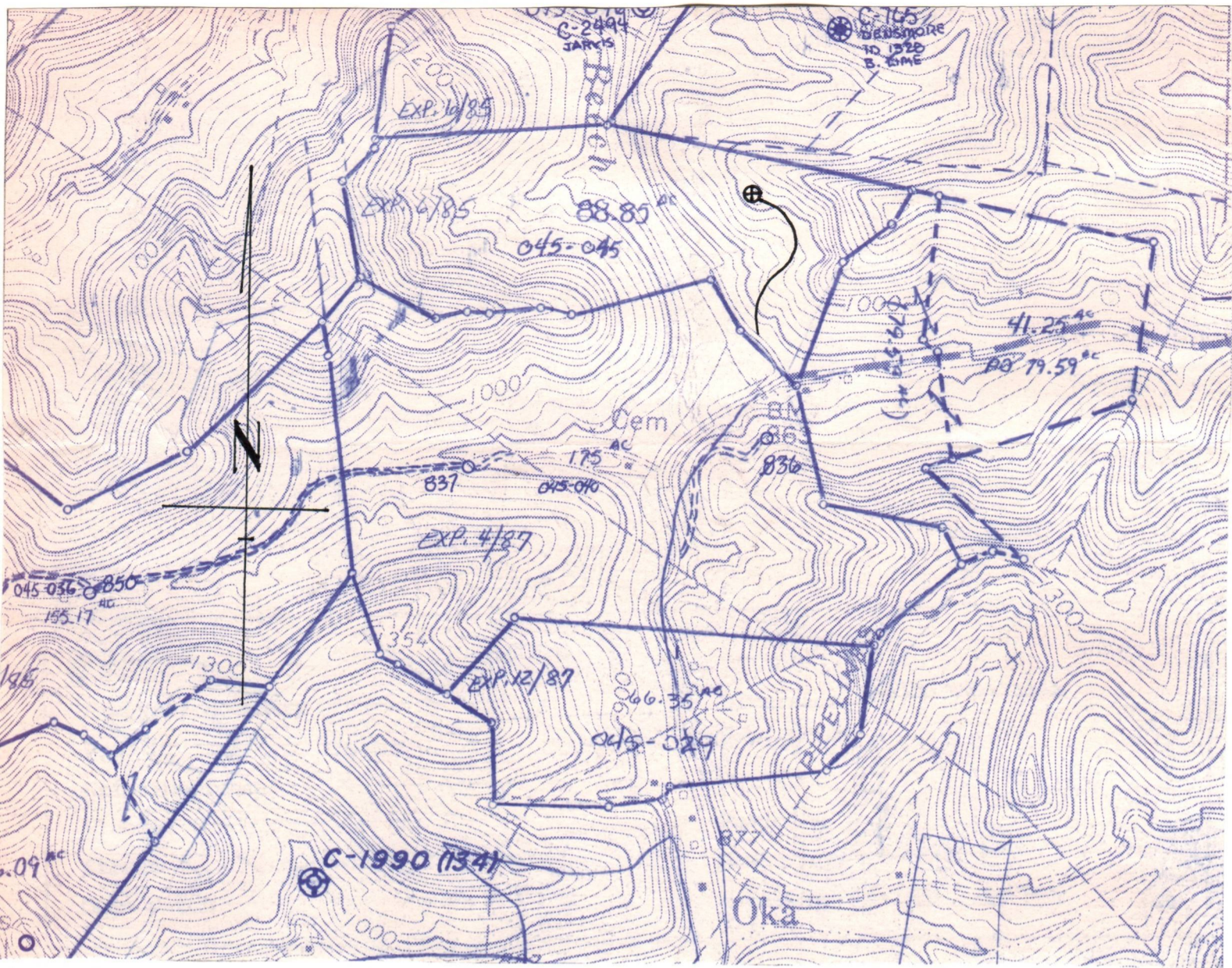
REVEGETATION

Treatment Area I	Treatment Area II
Lime <u>2</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>2</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch Hay <u>2</u> Tons/acre	Mulch Hay <u>2</u> Tons/acre
Seed* <u>Ky-31</u> <u>40</u> lbs/acre	Seed* <u>Ky-31</u> <u>40</u> lbs/acre
<u>Ladino Clover</u> <u>4</u> lbs/acre	<u>Ladino Clover</u> <u>4</u> lbs/acre
_____ lbs/acre	_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper 05/17/2024 amount.
Inoculate with 3X recommended amount.
Moore's Well Services, Inc.

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.





RECEIVED
SEP 25 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 17, 1984

COMPANY Sterling Drilling & Production Co. PERMIT NO 013-3678 (12-15-83)
710 Virginia Street, East FARM & WELL NO Sibyl Pischke #865
Charleston, West Virginia 25301 DIST. & COUNTY Washington/Calhoun

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 Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strenght	_____	_____
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 *O. S. Mace*

DATE 9-19-84

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. L. ...

Administrator-Oil & Gas Division

September 27, 1984

DATE

TMS/chm