

RECEIVED

OCT - 5 1984



1) Date: October 3, 1984
 2) Operator's Well No. Cabot #1074
 3) API Well No. 47 - 013 - 3807
 State County Permit

**OIL & GAS DIV.
DEPT. OF MINES**

**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: 972.52' / Watershed: Little Bear Fork LKWIA1
 District: Lee / County: Calhoun / Quadrangle: 7.5' Burning Springs
- 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, 5000 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

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		400'	400'	To Surface	<u>NEAT</u>
Coal									Sizes
Intermediate	7"	J-55	20#	X		2100'	2100'	100 sks	
Production	4 1/2	ERW	10.5#	X			5000'	250 sks or as required by rule 15.04	
Tubing									Perforations:
Liners									Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-013-3807

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

Bond:	Agent: ✓	Plat:	Casing	Fee
<u>148</u>	<u>MU</u>	<u>MU</u>	<u>MU</u>	<u>7955</u>

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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



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OIL & GAS DIV.
DEPT. OF MINES

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

1) LOCATION: T. 3, Spring Springs
 2) WELL OPERATOR: Harry L. Berger, Jr.
 3) ADDRESS: 230 E. 33rd St., 3rd floor, New York, New York 10017
 4) OFFICE & GAS INSPECTOR TO BE NOTIFIED: [Blank]
 5) NAME: [Blank]
 6) ADDRESS: [Blank]
 7) PROPOSED WELL WORK: [Blank]
 8) GEOLOGICAL TARGET FORMATION: [Blank]
 9) APPROXIMATE DEPTH OF COMPLETED WELL: [Blank]
 10) APPROXIMATE COST AND DATE: [Blank]

DEPTH INTERVAL	LOGGING INTERVAL	REGISTRATION	DATE	TIME	REMARKS
100'	100'	X	12-23	12	WEST
2100'	2100'	X	0-25	20	150 sks
2900'	2900'	X	10-25	15	250 sks

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:

10/06/2023

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 James P. Siegrist
Address P.O. Box 68
Big Bend, W.V. 26136

(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 XXX

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 3rd day of October, 1984.
My commission expires May 10, 1989.

David W. Altschick
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

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OIL & GAS DIV.
DEPT. OF MINES

10/06/2023

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

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

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

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

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Cabot Oil and Gas Corp. Box 628 Charleston, W.V. 25322	Sterling Drilling and Production Co., Inc.	1/8	61/120

10/06/2023

Rec 10/1/84
LKSCD



IV-9
(Rev 8-81)

DATE 9-27-84
WELL NO. Cabot Old Gas # 1074
API NO. 47 - 013 - 3807

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 James P. Siegrist SOIL CONS. DISTRICT Little Kanawha SCD
Revegetation to be carried out by Sterling Drilling & Prod. Co.-H.L.Berger (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 10/1/84 (Date)

field Review

Randall G. Robinson
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert</u> (A)	Structure <u>Diversion Ditch</u> (1)
Size <u>16"</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-8 Table 3</u>	Page Ref. Manual <u>2-12</u>
Structure <u>Drainage Ditches</u> (B)	Structure <u>Rip-Rap</u> (2)
Location <u>Roadside</u>	Material <u>Rock</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-9</u>
Structure <u>Cross Drains -- N/A</u> (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

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

REVEGETATION

Treatment Area I

Lime <u>2</u> Tons/acre	or correct to pH <u>6.5</u>
Fertilizer <u>500</u> lbs/acre	(10-20-20 or equivalent)
Mulch <u>Hay or Straw</u> 2 Tons/acre	
Seed* <u>K₂-31</u> 40 lbs/acre	
<u>Ladino Clover</u> 4 lbs/acre	
	lbs/acre

Treatment Area II

Lime <u>2</u> Tons/acre	or correct to pH <u>6.5</u>
Fertilizer <u>500</u> lbs/acre	(10-20-20 or equivalent)
Mulch <u>Hay or Straw</u> 2 Tons/acre	
Seed* <u>K₂-31</u> 40 lbs/acre	
<u>Ladino Clover</u> 4 lbs/acre	
	lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. 10/06/2023



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

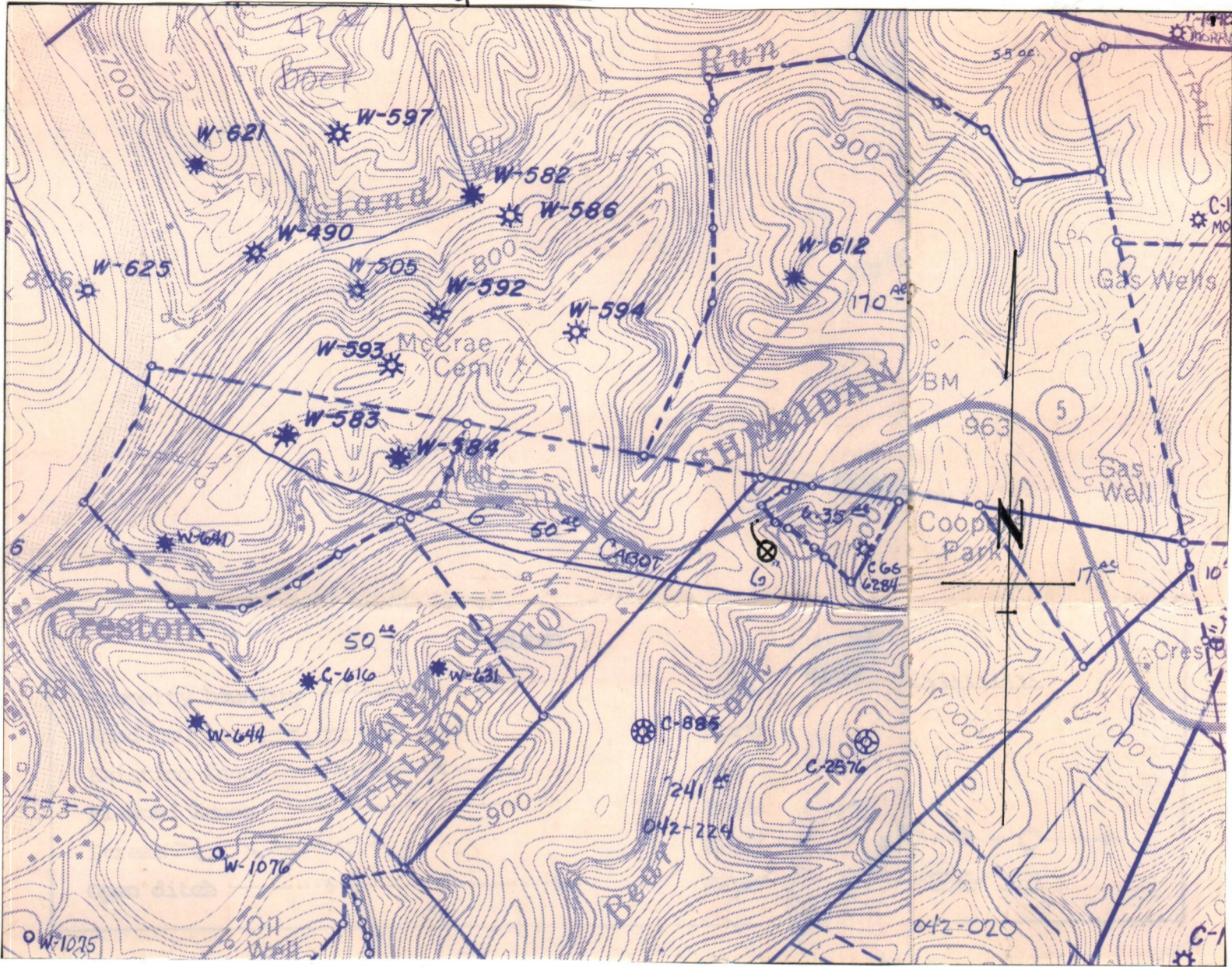
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

LEGEND

IV-9 REVERSE
(REV 6-81)

INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 7 1/2' Burning Springs
Spencer ME

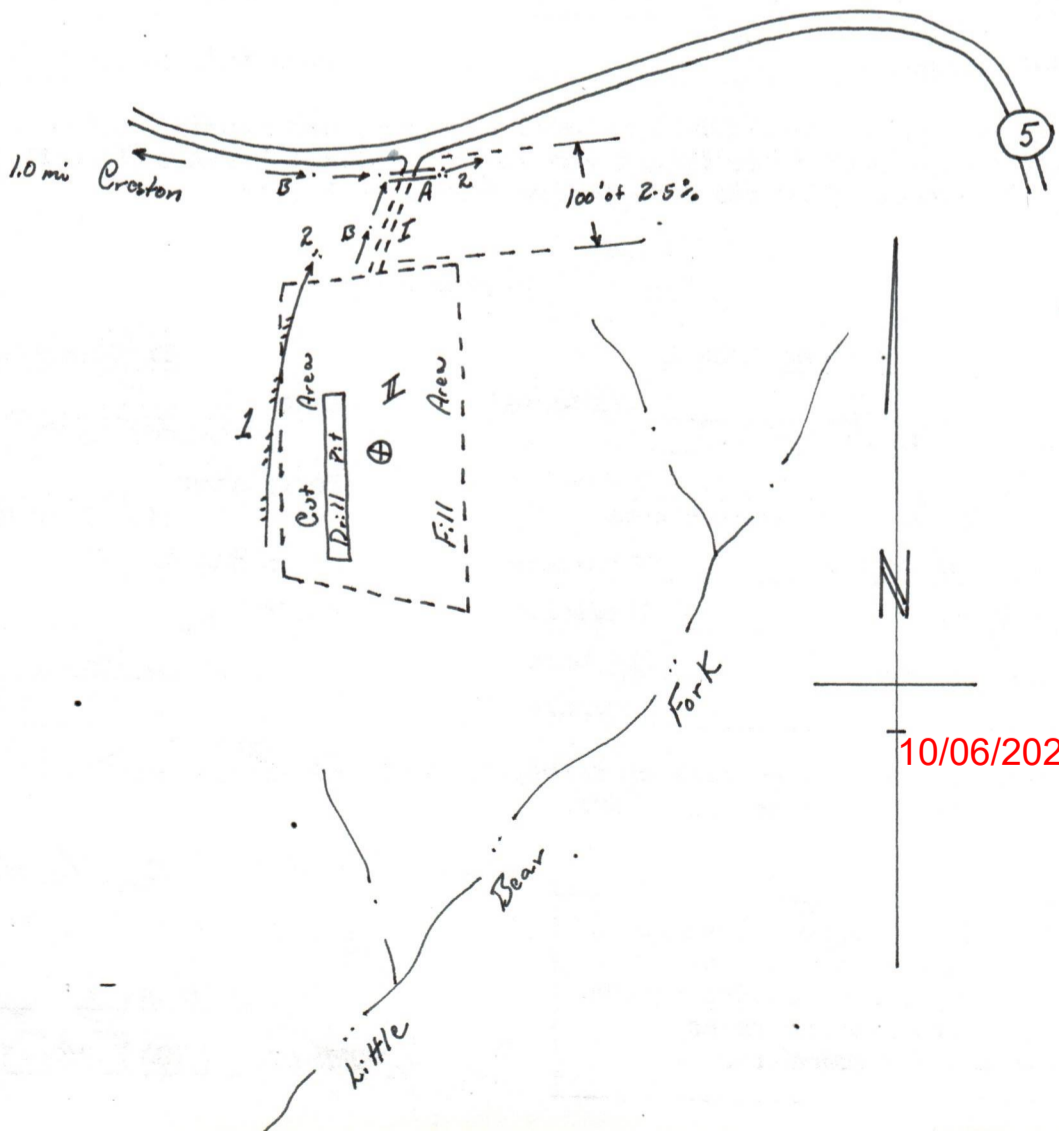
Well Site 
Access Road 



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DEPT. OF MINES
OIL & GAS DIV.

OCT - 2 1984





1) Date: October 3, 1984
 2) Operator's Well No. Cabot #1074
 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 XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 972.52' Watershed: Little Bear Fork
 District: Lee County: Calhoun Quadrangle: 7.5' Burning Springs
- 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 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, 5000 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>400'</u>	<u>400'</u>	<u>To Surface</u>		
Coal										Sizes
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2100'</u>	<u>2100'</u>	<u>100 sks</u>		
Production	<u>1 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5000'</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: _____

X Paul Siegrist Date: Oct. 25, 1984
 (Signature)

By _____

Jewell C. Siegrist Date: 10/25/84
 (Signature)

Its _____ Date _____

**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.

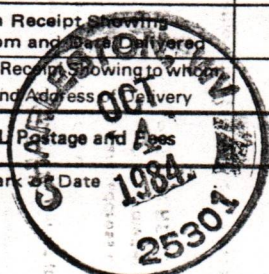
List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

1074
P 522 051 917

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

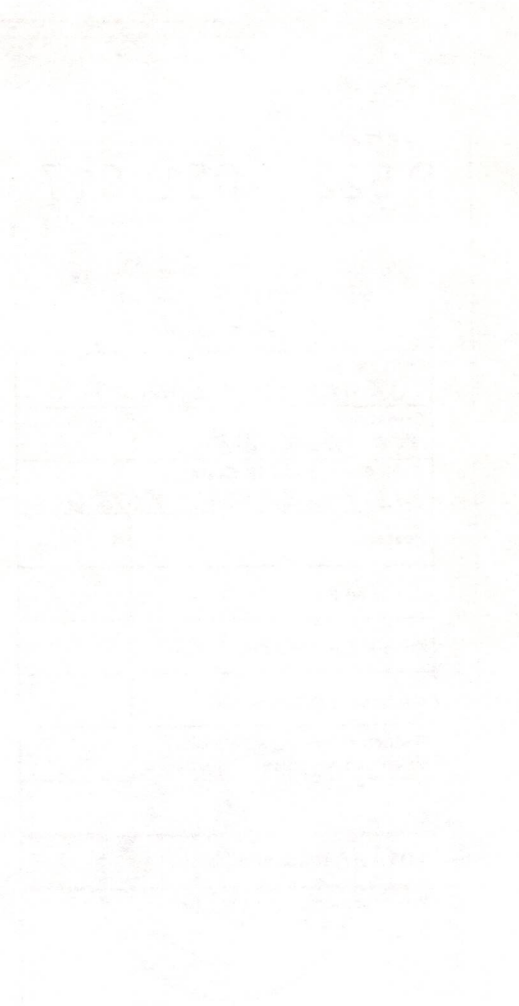
PS Form 3800, Feb. 1982

Sent to	
JAMES P. SIEGRIST	
Street and No.	
P.O. BOX 68	
P.O., State and ZIP Code	
616 BEND, W.V. 26136	
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 & Date	



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OIL & GAS DIV.

10/06/2023

P.O. Box 68

Big Bend, WV 26136

Mr. H. L. Berger, Jr.
710 Virginia St. E.
Charleston, WV 25301

Dear Mr. Berger,

On October 5, 1984 your field representative, E. L. Hazdrigg visited us and requested our signature on an application for a well work permit. We did not sign the permit because we were very upset by his conduct, inability to answer our questions and his authoritative attitude. I do not believe I have ever met a more arrogant person.

It is my belief that we should be able to discuss the differences and reach a satisfactory solution without a hearing if your approach to the problem ^{is} with the idea of mutual interest.

We welcome the chance to discuss this situation for a satisfactory resolution, if you wish.

Feel free to phone us at 354-6775 (Res. after 4:15pm)

Sincerely,
Paul Siegrist

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OCT 19 1984

OIL & GAS DIVISION
DEPT. OF MINES

10/06/2023

P.O. Box 68
Big Bend, W.V. 26136
October 17, 1984

Administrator of the Office of Oil and Gas
W. V. Department of Mines
1615 Washington Street East
Charleston, W.V. 25311

Dear Sir,

I am writing in response to a notice of application for a well work permit in Calhoun County for Sterling Drilling and Production Co., Inc. The Operator's Well # is 1074 and the API Well # is 47. A map to scale is enclosed of location.

I own the surface to this area and request that the proposed present well location be moved from the edge of our meadow and, also a potential residential site or call for a hearing on this application. I do not believe this proposed plan is adequate to prevent soil erosion from this area and highly recommend that the cement be run deeper than 400 feet to prevent contamination of our drinking water which is approximately 200 yards from the proposed well site. We will anticipate payment for any surface damage in this area.

We wish to request a copy of any correspondance or well permit in reference to this complaint. Your assistance on this matter will be deeply appreciated.

Sincerely yours,

Paul Siegrist

Paul Siegrist,
Landowner

Call Paul Monday

Enc.

✓ cc: Harry L. Berger, Jr.

? Depth of water well ^{700'}
? Elevation of water well

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AUG 20 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date August 6, 1985
Operator's
Well No. 1074
Farm Cabot Oil and Gas
API No. 47 - 013 - 3807

IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

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: 972.52' Watershed Little Bear Fork
District: Lee County Calhoun Quadrangle Burning Springs 7 1/2'

COMPANY Sterling Drilling & Production Co., Inc.

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

DESIGNATED AGENT William E. Stover, Jr.

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

SURFACE OWNER James P. Siegrist

ADDRESS P.O. Box 68, Big Bend, WV 26136

MINERAL RIGHTS OWNER Cabot Oil and Gas Corp.

ADDRESS Box 628, Charleston, WV 25322

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt.1 Bx 5, Sandridge WV 25274

PERMIT ISSUED October 17, 1984

DRILLING COMMENCED December 16, 1984

DRILLING COMPLETED December 21, 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	407'	407'	150 sks.
8 5/8			
7	2111'	2111'	175 sks.
5 1/2			
4 1/2		5046'	280 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5000' feet

Depth of completed well 5077'KB feet Rotary x / Cable Tools

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

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3482'-5016' feet

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

Final open flow 823 Mcf/d Final open flow show Bbl/d

Time of open flow between initial and final tests 23 hours

Static rock pressure 1200 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

CAL 3807

RECEIVED

AIR 20 1981
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

TO: [Faint recipient name]
FROM: [Faint sender name]
SUBJECT: [Faint subject line]

Item No.	Description	Quantity	Unit Price	Total
1	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
2	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
3	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
4	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
5	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
6	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
7	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
8	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
9	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]
10	[Faint description]	[Faint quantity]	[Faint unit price]	[Faint total]

[Faint paragraph of text, likely a description of the items in the table or a summary of the order.]

[Faint text at the bottom of the page, possibly including a signature line, date, or additional notes.]

10/06/2023

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

Perforations

1st Stage- 27 holes 4283'-5016'
2nd Stage- 22 holes 3482'-3978'

Treatment

1st Stage- 750 gals. 15% HCl; 1,564 total MSCF N₂
2nd Stage- 700 gals. 15% HCl; 1,440 total MSCF N₂

WELL LOG
Cabot # 1074

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	1240	
Sandstone			1240	1309	
Shale			1309	1351	
Sandstone			1351	1373	
Shale			1373	1390	
Sandstone			1390	1400	
Silty Shale			1400	1725	
Maxon			1725	1767	
Silty Shale			1767	1820	
Little Lime			1820	1841	
Pencil Cave			1841	1845	
Big Lime			1845	1959	
Big Injun			1959	1992	
Silty Shale			1992	2360	
Sunbury Shale			2360	2372	
Berea			2372	2374	
Siltstone and Shale			2374	2741	
Shale			2741	4764	Top of Java Formation @ 4541'
Siltstone			4764	4796	
Shale			4796	5077	
Total Depth				5077	

(Attach separate sheets as necessary)

Sterling Drilling and Production Co., Inc.
Well Operator 10/06/2023
By: *William E. Stone*
Date: 8-15-85

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

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

RECEIVED
DEC 27 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3807

Oil or Gas Well _____
(KIND)

Company Sterling

Address _____

Farm Cabot

Well No. 1074

District See County Cal.

Drilling commenced 12-16-84

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 Hunt 7

Remarks: Scoped surface hole.
407' of 9 5/8" casing, Dowell, 12-17-84
Good cement circulated

12-17-84
DATE

D. M. ... 10/06/2023
DISTRICT WELL INSPECTOR



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

State of West Virginia
Department of Energy
Oil and Gas Division
Charleston 25311

JAN 14 1986

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
August 28, 1985

COMPANY Sterling Drilling & Prod. Co.
710 Virginia Street, East
Charleston, West Virginia 25301

PERMIT NO 013-3807 (10-17-84)
FARM & WELL NO James Siegrist #1074
DIST. & COUNTY Lee/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 Strength		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

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

SIGNED R. W. Mass
DATE 1-10-86

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. [Signature]
Director, Division of Oil & Gas
January 27, 1986
DATE



State of West Virginia
Department of Energy
Oil and Gas Division
Charleston 25311
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY _____ PERMIT NO _____

FARM & WELL NO _____

DIST. & COUNTY _____

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to Starting Work	_____	_____
16.01	Required Permits at Wellsite	_____	_____
17.02	Method of Plugging	_____	_____
18.01	Materials used in Plugging	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
17.06	Statutory Affidavit	_____	_____
7.06	Parties Responsible	_____	_____
7.05	Identification Markings	_____	_____

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

SIGNED _____

DATE _____

Your Affidavit of Plugging was received and reclamation requirements approved. The well designated by the above permit number has been released under your bond.

Director- Division of Oil & Gas

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 - 3807 -
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.)	5077 feet
4.0 Name, address and code number of applicant: (25 letters per line maximum. If code number not available, leave blank.)	Sterling Drilling and Production Co. Inc. 018084 Name Seller Code 710 Virginia St. East, Arcade Building Street Charleston, WV 25301 City State Zip Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (25 letters maximum for field name.)	Lee District Field Name Calhoun County State WV
(b) For OCS wells:	Area Name Block Number Date of Lease: _____ Mo. Day Yr. OCS Lease Number
(c) Name and identification number of this well: (25 letters and digits maximum.)	1074 Cabot Oil and Gas
(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.)	UNDEDICATED Name Buyer Code
(b) Date of the contract:	_____ Mo. Day Yr.
(c) Estimated total annual production from the well:	24.6 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 0 4 8	-----	-----	-----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 6 0 4 8	-----	-----	-----

9.0 Person responsible for this application:	William E. Stover Name _____ Signature August 15, 1985 Date Application is Completed	Designated Agent Title _____ Signature _____ Phone Number 304-342-0121
--	---	--

Agency Use Only

DATE RECEIVED BY JURIS. AGENCY
AUG 20 1985

DATE RECEIVED BY FERC

10/06/2023

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

SEP 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

47-013-3807

Date: August 15, 19 85

47550

AGENCY USE ONLY

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

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

Gas Purchaser Contract No.

Date of Contract (Month, day and year)

First Purchaser: Undedicated P 629

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

FERC Seller Code

WELL DETERMINATION FILE NUMBER 850820-1073-013-3807 Use Above File Number on all Communications Relating to This Well

SDP #1074

Designated Agent: William E. Stover

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

FERC Buyer Code

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

Name: William E. Stover (Print) Vice President/Drilling Supervisor (Title)

Signature: [Handwritten Signature]

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 Geopressed Brine
107-2 Coal Seams
107-3 Devonian Shale
107-5 Production enhancement
107-6 New Tight Formation
107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

10/06/2023

RECEIVED AUG 20 1985

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Date Received

Determination Date

GEORGE W. WALL GAMES LOG ANALYSIS
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.: 47-013-3807 Well Name: Cubit O & G #1074
 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: $0.7 \text{ (GR Value at Base Line)}$
 $0.7 \text{ (160 *)} = \underline{112}$ 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***		
2370	5067	2697	44

Total Devonian Interval 2697

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $0.0163 \times 100 = \underline{1.6\%}$

*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.

10/06/2023

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Operator's 1074
Well No. Cabot Oil & Gas

API Well No.

47 - 013 - 3807
State County Permit

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 972.52'

WELL OPERATOR Sterling Drilling & Prod. Co., Inc. Watershed Little Bear Fork

ADDRESS 710 Virginia St., E., Arcade Bldg. Dist. Lee County Calhoun Quad. Burn Spr 7
Charleston, WV 25301

Gas Purchase Contract No. _____

GAS PURCHASER Undedicated

Meter Chart Code _____

ADDRESS _____

Date of Contract _____

* * * * *

Date surface drilling began: December 16, 1984

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

Bottom Hole Pressure. PSIA -- Pf = Pwe XLGS

$$t = 60 + (0.0075 \times \underline{5067}) + 459.67 = \underline{557.67} \cdot X = \frac{1}{53.34} / \underline{557.67} = \underline{0.0000336}$$

$$Pf \underline{1200} \times 2.7183 \underline{0.0000336} \times \underline{4249} \times \underline{0.69} \times \underline{1.07} = \underline{1333.4} \text{ PSIA}$$

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

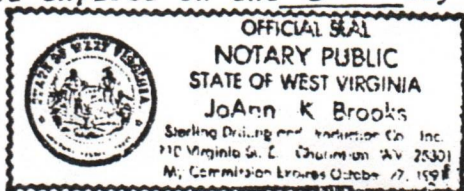
STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, JoAnn K Brooks, 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 15TH day of August, 1985 10/06/2023 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 15TH day of August, 1985.
My term of office expires on the 27TH day of October, 1991.

(NOTARIAL SEAL)



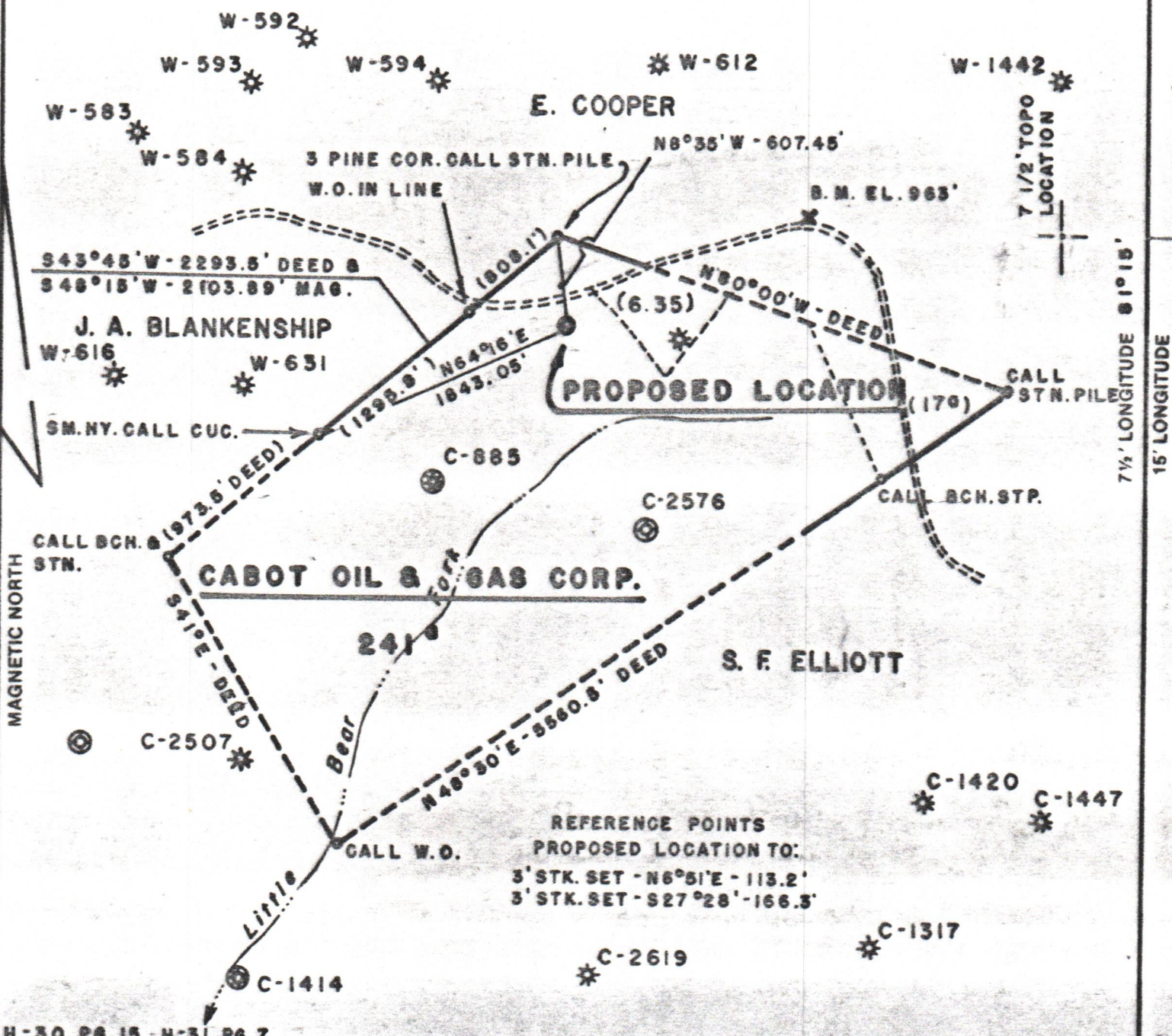
JoAnn K Brooks
Notary Public

MW 10/16/84

15' LATITUDE

1150'

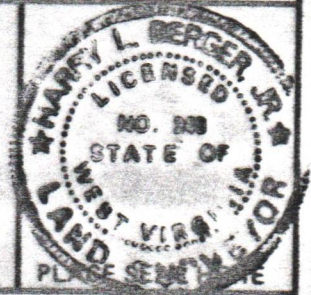
7 1/2' LATITUDE 38° 57' 30"



H-30, P. 15, H-31, P. 7

FILE NO. 042-224
 MAP NO. 57-B
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M.
 SHOWN EL. 963'

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 SEPTEMBER 29, 1984
 OPERATOR'S WELL NO. 1074
 API WELL NO. 47-013-3807
 STATE 47 COUNTY 013 PERMIT 3807

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 972.52' WATER SHED LITTLE BEAR FORK
 DISTRICT LEE COUNTY GALHOUN
 QUADRANGLE 7 1/2' BURNING SPRINGS (SPENCER N.E.)
 SURFACE OWNER JAMES P. SIEGRIST ACREAGE 136
 OIL & GAS ROYALTY OWNER CABOT OIL & GAS CORP. LEASE ACREAGE 241
 LEASE NO. 042-224

10/06/2023

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 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, WV 25301