



1) Date: September 10, 1984
 2) Operator's Well No. Mace #1007
 3) API Well No. 47 - 013 - 3796
 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: 1203.94' Watershed: Hog Run LKSID
 District: Sherman County: Calhoun Quadrangle: 7.5' Millstone
- 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 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, 5600 feet
- 13) Approximate strata 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

RECEIVED
 SEP 13 1984

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			
Conductor										
Fresh water	9 5/8	LS	33#	X		500'	500'	To Surface	Kinds <u>NEAT</u>	
Coal									Sizes _____	
Intermediate	7"	J-55	20#	X		2384'	2384'	100 sks	Depth _____	
Production	4 1/2	ERW	10.5#	X			5600'	250 sks	Perforations: <u>as required by rule 1501</u>	
Tubing									Top _____ Bottom _____	
Liners										

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3796 Date October 10, 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 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>148</u> BLANKET	Agent: <u>LS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>7798</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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

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

File
 05/17/2024



OFFICE USE ONLY

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

RECEIVED
SEP 13 1984

DEPT. OF MINES
OIL & GAS DIVISION

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:

05/17/2024



1) Date: September 10, 1984
 2) Operator's Well No. Mace #1007
 3) API Well No. 47 State _____ County _____ Permit _____

RECEIVED

OCT 09 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 X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1203.94' Watershed: Hog Run
 District: Sherman County: Calhoun Quadrangle: 7.5' Millstone
- 6) WELL OPERATOR Sterling Drilling & Prod. Co., Inc. 7) 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, 5600 feet
 13) Approximate strata 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>8 5/8</u>	<u>LS</u>	<u>33#</u>	<u>X</u>		<u>500'</u>	<u>500'</u>	<u>To Surface</u>	Sizes	
Coal									Depths set	
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20#</u>	<u>X</u>		<u>2384'</u>	<u>2384'</u>	<u>100 sks</u>		
Production	<u>1 1/2</u>	<u>ERW</u>	<u>10.5#</u>	<u>X</u>			<u>5600'</u>	<u>250 sks</u>		
Tubing									Perforations:	
Liners									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: _____
 By _____
 Its _____ Date _____

Fred H Mace Date: 10/7/84
 (Signature)
Kiladean Hall Date: 10/7/84
 (Signature)



**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 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 a 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 being drilled 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 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 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 the 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

1) Date: September 10, 1984
2) Operator's Well No. 1007
3) API Well No. 47-013-3796
State County Permi

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 Fred & Willidene Hall
Address Rt. 1 Box 55
Sandridge, W.V. 25274
(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.

RECEIVED
SEP 13 1984

OIL & GAS DIVISION
DEPT. OF MINES

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 10 day of September, 1984.
My commission expires May 10, 1989.
Daniel M. Gillespie
Notary Public, Kanawha County,
State of West Virginia

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

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>
Ralph Mace Rt. 1 Box 65 Sandridge, W.V. 25274	Sterling Drilling and Production Co., Inc.	1/8	20/462
Edith Barr Huffman James V. Stump Wilma J. Stump			

05/17/2024



IV-9
(Rev 8-81)

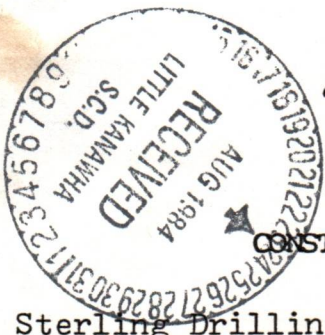
DATE 8-17-84

WELL NO. Mace # 1007

API NO. 47 - 013 - 3796

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 Fred & Willdene Mall 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: 8/31/84

Ronald H. Atkinson
(Date) _____
(SCD Agent)



ACCESS ROAD

LOCATION

Structure _____ (A)

Structure _____ (1)

Size _____

Material _____ OIL & GAS DIVISION

Page Ref. Manual _____

Page Ref. Manual _____ DEPT. OF MINES

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 (C)

Structure _____ (3)

Spacing 200' for 3.5 %

Material _____

Page Ref. Manual _____

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

Mulch Hay or Straw 2 Tons/acre

Seed* Orchard grass 15 lbs/acre

Seed* Orchard grass 15 lbs/acre

Alsike Clover 4 lbs/acre

Alsike Clover 4 lbs/acre

Red Clover 4 lbs/acre

Red Clover 4 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. 05/17/2024

PLAN PREPARED BY Richard V. Campbell

ADDRESS Route 1, Box 30

Duck, WV 25063

PHONE NO. (304) 364-5780

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

IV-9 REVERSE
(REV 8-81)

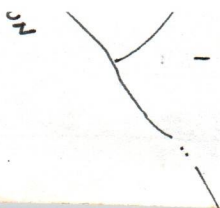
INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 7 1/2' Millstone
Arnoldsburg SE

LEGEND

Well Site	⊖
Access Road	—



05/17/2024



1007
P 522 051 902

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

Sent to	FRED & WILLIDENE HALL
Street and No.	RT. 1 BOX 55
P.O., State and ZIP Code	SANDRIDGE, W.V. 25274
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	189
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark	CHARLESTON, WV SEP 13 1984 2 2301

RECEIVED
SEP 13 1984
OIL & GAS DIVISION
DEPT. OF MINES



RECEIVED

JAN 16 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 13, 1984
Operator's
Well No. 1007
Farm Mace
API No. 47 - 013 - 3796

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1203.94' Watershed Hog Run
District: Sherman County Calhoun Quadrangle 7.5' Millstone

COMPANY Sterling Drilling & Production Co., Inc.

ADDRESS 710 Virginia St. E. Charleston, WV 25301

DESIGNATED AGENT Harry L. Berger, Jr.

ADDRESS Same

SURFACE OWNER Fred and Willidene Hall

ADDRESS Rt. 1, Box 55, Sandridge, WV 25274

MINERAL RIGHTS OWNER Ralph Mace, et. al.

ADDRESS Rt. 1, Box 65, Sandridge, WV 25274

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

ADDRESS Rt. 1, Box 5, Sandridge WV 25274

PERMIT ISSUED October 10, 1984

DRILLING COMMENCED October 20, 1984

DRILLING COMPLETED October 27, 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	520'	520'	195 sks
8 5/8			
7	2402'	2402'	190 sks
5 1/2			
4 1/2		5277'	290 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5600 feet

Depth of completed well 5322'KB feet Rotary X / Cable Tools

Water strata depth: Fresh 350 feet; Salt 1895 feet

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3621' - 5258' feet

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

Final open flow 750 Mcf/d Final open flow 100 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 800 psig (surface measurement) after 24 ~~05/17/84~~ 05/17/84 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 3796

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

Perforations: 1st stage: 28 holes from 4514' to 5258'.
2nd stage: 28 holes from 3621' to 4351'.

Treatment: 1st stage: 900 gals. 15% HCL; 1,350 MSCF of N₂.
2nd stage: 1000 gals. 15% HCL; 1,386 MSCF of N₂.

WELL LOG

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'	1841'	All depths from 10'KB.
Salt Sand			1841'	1910'	
Shale			1910'	1918'	Fresh water @ 350'
Salt Sand			1918'	2005'	Salt water @ 1895'
Shale			2005'	2030'	
Maxon			2030'	2068'	
Shale			2068'	2090'	
Little Lime			2090'	2126'	
Shale			2126'	2130'	
Sand			2130'	2134'	
Shale			2134'	2139'	
Big Lime			2139'	2237'	
Big Injun			2237'	2291'	
Siltstone and Shale			2291'	2574'	
Sunbury Shale			2574'	2599'	
Siltstone and Shale			2599'	3114'	
Shale			3114'	5032'	
Siltstone and Shale			5032'	5150'	Top of Angola Shale @ 5087'.
Shale			5150'	5248'	
Siltstone			5248'	5304'	
Shale			5304'	5322'	TD - 5322'.

(Attach separate sheets as necessary)

Sterling Drilling & Production Co., Inc 05/17/2024

Well Operator

By: Harry J. Berger, Jr

Date: 1-8-85

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

6/82

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Well No. _____

COMPANY _____ ADDRESS _____

DISTRICT _____ COUNTY _____

g Material Used _____

Location			Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Inspectors' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

 DISTRICT WELL INSPECTOR

05/17/2024

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

RECEIVED
OCT 23 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3796

Oil or Gas Well _____
(KIND)

Company Steering Drilling

Address _____

Farm Mace

Well No. 1007

District Sherman County Cal

Drilling commenced 10-20-84

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 150 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 Hurt 1

Remarks: 520' 9 5/8" casing, 195 SKS cement Dowell 10-20-84
cement circulated

10-20-84
DATE

D. S. Mace 05/17/2024
DISTRICT WELL INSPECTOR

2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount	Packer	Location	
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE I hereby certify I visited the above well on this date.

DISTRICT NO. 17
05/17/2024

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

RECEIVED
OCT 30 1984

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 13-3796

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Mace
 Well No. 1007
 District Sherman County Cal.
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

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

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:
2444' of 7" casing, 195 SKS cement, Dowell

10-22-84
DATE

D. Mace 05/17/2024
DISTRICT WELL INSPECTOR

2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

I hereby certify I visited the above well on this date.

05/17/2004

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

RECEIVED

OCT 30 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3796

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Mace
 Well No. 1007
 District Sherman County Cal
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

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

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

Drillers' Names Hunt 1

Remarks:
Hole wet below 7" casing.
Drying Hole

24
10-23-84
DATE

D. Mace 05/17/2024
DISTRICT WELL INSPECTOR

2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location			Amount			Packer			Location			
PLUGS USED AND DEPTH PLACED						BRIDGES			CASING AND TUBING						
CEMENT-THICKNESS		WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST							

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

DISTRICT: 05/17/2024

RECEIVED
JUN 25 1985

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

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

Company: STERLING DRILLING
Farm: HALL, FRED & WILLIDENE Well: MACE 1007

Permit No. 47- 13-3796 (10-10-84)
County: CALHOUN

Rule	Description	In Compliance	
		Yes	No
3.06	Notification prior to starting work	-----	-----
5.04	Prepared before drilling to prevent waste	-----	-----
5.03	High pressure drilling	-----	-----
6.01	Required permits at wellsite	-----	-----
5.03	Adequate Fresh Water Casings	-----	-----
5.02	Adequate Coal Casings	-----	-----
5.01	Adequate Production Casings	-----	-----
5.04	Adequate Cement Strength	-----	-----
5.05	Cement Type	-----	-----
3.02	Maintained Access Roads	-----	-----
5.01	Necessary Equipment to Prevent Waste	-----	-----
3.04	Reclaimed Drilling Pits	-----	-----
3.05	No Surface or Underground Pollution	-----	-----
3.07	Requirements for Production & Gathering Pipelines	-----	-----
01	Well Records on Site	-----	-----
02	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED *Des Mace*
DATE *June 19, 1985*

our well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond overage for the life of the well.

T.H. B.
Administrator

June 27, 1985
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 - 3796 -															
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.)	5322 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. Inc. Name 710 Virginia St. East, Arcade Building Street Charleston, WV 25301 City State Zip Code			018084 Seller Code												
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Sherman 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: (35 letters and digits maximum.)	Mace #1007															
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)																
6.0 (a) Name and code number of the purchaser: (35 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:	22.5 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	5.920	---	---	---											
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	5.920	---	---	---											
9.0 Person responsible for this application:	<table border="0" style="width:100%;"> <tr> <td style="width:30%; border: 1px solid black; padding: 2px;">Agency Use Only</td> <td style="width:40%; border-bottom: 1px solid black;">Harry L. Berger, Jr.</td> <td style="width:30%; border-bottom: 1px solid black;">Designated Agent</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Date Received by Juris. Agency</td> <td style="border-bottom: 1px solid black;"><i>Harry L. Berger, Jr.</i></td> <td style="border-bottom: 1px solid black;">Title</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Date Received by FERC</td> <td style="border-bottom: 1px solid black;">Jan 7, 1985</td> <td style="border-bottom: 1px solid black;">304-342-0121</td> </tr> <tr> <td></td> <td style="border-bottom: 1px solid black;">Date Application is Completed</td> <td style="border-bottom: 1px solid black;">Phone Number</td> </tr> </table>				Agency Use Only	Harry L. Berger, Jr.	Designated Agent	Date Received by Juris. Agency	<i>Harry L. Berger, Jr.</i>	Title	Date Received by FERC	Jan 7, 1985	304-342-0121		Date Application is Completed	Phone Number
Agency Use Only	Harry L. Berger, Jr.	Designated Agent														
Date Received by Juris. Agency	<i>Harry L. Berger, Jr.</i>	Title														
Date Received by FERC	Jan 7, 1985	304-342-0121														
	Date Application is Completed	Phone Number														

05/17/2024

Date Received by Juris. Agency
1-16-85

Date Received by FERC

JAN 31 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

47-013-3796

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Jan 7, 19 84

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

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

Gas Purchaser Contract No.

Date of Contract
(Month, day and year)

First Purchaser: UNDEDICATED

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

FERC Seller Code 018084

1007 AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

850116 -107-013-3796

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Harry L. Berger, Jr.

Address: Sterling Drilling & Prod. Co.,
710 Virginia St., E. Arcade Bldg
Charleston, WV 25301

FERC Buyer Code

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

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

- 103 New Onshore Production Well
 - 103 New Onshore Production Well

- 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

05/17/2024

RECEIVED

JAN 16 1985

OIL & GAS DIV.
DEPT. OF MINES

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Mace #1007

API Well No.

47 - 013 - 3796
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 1203.94

WELL OPERATOR Sterling Drilling & Production Co Watershed Hog Run

ADDRESS 710 Virginia Street, East
Charleston, WV 25301

Dist. Sherman County Calhoun Quad. 7 1/2' Millstone

Gas Purchase Contract No.

GAS PURCHASER UNDEDICATED

Meter Chart Code

ADDRESS

Date of Contract

* * * * *

Date surface drilling began: 10/20/84

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 x 5322) + 459.67 = 560 . X = 1 / 53.34 X 560 = .0000335

Pf = 800 x 2.7183 .0000335 x 4440 x .690 x 1.08 = 894 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

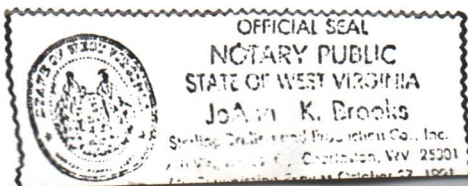
COUNTY OF Kanawha, TO-WIT:

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 7TH day of January, 1985 05/17/2024 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 7TH day of January, 1985.

My term of office expires on the 27TH day of October, 1991.

(NOTARIAL SEAL)



JoAnn K Brooks
Notary Public

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.: 47-013-3796 Well Name: Mace #1007

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 = 175 * API Units
 2. Remarks:

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

1. GR Value = 123 * API Units
 2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (175 *)}} = \underline{123}$ 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***		
2550	5312	2762	108

Total Devonian Interval 2762

Total Less Than 0.7 (Shale Base)

% Less Than 0.7 (Shale Base Line) = $\frac{108}{2762} \times 100 = \underline{3.9\%}$

108
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.

967

47550

IV-27
9-83



RECEIVED

APR 16 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: APRIL 11, 1985
Well No: MACE 1007
API NO: 47 - 13 - 3796
State County Permit

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

NOTICE OF VIOLATION

WELL TYPE: Oil X / Gas X Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production ___ / Storage ___ / Deep ___ / Shallow X /

LOCATION: Elevation: ___ Watershed: HOG RUN
District: SHERMAN County: CALHOUN Quadrangle: ___

WELL OPERATOR STERLING O & P DESIGNATED AGENT HARRY BERGER JR
Address ___ Address 710 VIRGINIA ST E
CHARLESTON WV 25301

The above well is being posted this 11 day of APRIL, 1985, for a violation of Code 22-4-14 and/or Regulation ____, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

NATURAL GAS SHALL NOT BE PERMITTED TO WASTE WHILE THE WELL IS PRODUCING OIL.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until APRIL 12, 1985, to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

W. Mace
Oil and Gas Inspector

Address _____

Telephone: 05/17/2024

117

RECEIVED
APR 18 1985

OIL & GAS DIVISION
DEPT. OF MINES



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
NOTICE OF VIOLATION

APRIL 11, 1985
WELL NO: MACE 1007
WELL NO: 13-3796
STATE COUNTY PERMIT

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
Production Storage Deep Shallow
LOCATION: Elevation: _____ Watched: _____
District: SHERMAN County: CALLOWAY
WELL OPERATOR: STEPHEN O & P DESIGNATED AGENT: HARRY BERGER JR
Address: 710 VIRGINIA ST E
CHARLESTON WV 25301

The above well is being posted this 11 day of APRIL 1985 for a violation of Code 22-1-14 and/or regulation _____, see form in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

NATURAL GAS SHALL NOT BE PERMITTED TO WASTE WHILE THE WELL IS PRODUCING O.K.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent. You are hereby granted until APRIL 12, 1985 to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-1-17 or Code 22-1-18.

Oil and Gas Inspector

Address

Telephone

05/17/2024

47550

Date: April 12, 1985
Operator's Well Number MACE 1007
API Well No.: No. 47 - 13 - 3796
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OFFICE OF OIL AND GAS
ORDER FOR FAILURE TO ABATE VIOLATION

RECEIVED
APR 16 1985

OIL & GAS DIVISION
DEPT. OF MINES

WELL TYPE: Oil / Gas Liquid Injection _____ / Waste disposal _____

Underground

If "Gas" - Production _____ / Storage _____ / Deep _____ / Shallow

LOCATION: Elevation: _____ Watershed: Sycamore Creek

District: Sherman County: Calhoun Quadrangle: _____

WELL OPERATOR Stark Drilling & Production

Address _____

DESIGNATED AGENT: Harry Berg

Address: 710 Virginia St E Charleston WV 25301

Notice is hereby given that the undersigned authorized oil and gas inspector has made a special inspection of the above-named well on 4-12, 1985.

The violation of Code 22-4-14, heretofore found to exist on 4-11, 1985 by Form IV-27, "Notice of Violation" , Form IV-28, "Imminent Danger Order" _____ of that date has not been totally abated and it has been determined that no further extension of time should be permitted for the following reasons:

(USE REVERSE SIDE OF THIS ORDER IF NECESSARY)

Therefore, in accordance with the provisions of Code 22-4-1g, the well operator is hereby ORDERED:

To continue cessation of operations until the imminent danger is fully abated.

To cease further operations until the violation has been fully abated.

In accordance with Code 22-4-1h, a well operator or complaining coal operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.

PURCHASER: Joe Myers
Quaker State oil co
Address: P.O. Box 989
oil city P.A. 16301

D. W. Mace
Oil and Gas Inspector
Address: _____
Telephone: _____

(Copies of this ORDER have been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.)

05/17/2024

APR 13 1985
Operator's Well No. 41
State of West Virginia
County of Boone
MACE 1007

RECEIVED
APR 16 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OFFICE OF OIL AND GAS
ORDER FOR FAILURE TO ABATE VIOLATION

DEPT. OF MINES
OIL & GAS DIVISION

WELL TYPE: Oil Gas Liquid Injection Waste disposal
LOCATION: Evulsion: Gas Production Storage Dam Shaft
Well Operator: *W. J. ...*
Address: *...*

DESIGNATED AGENT: *...*
Address: *...*
The violation of Code *...* has been determined to exist on *...*
by Form IV-23, adopted *...*
of that violation has been totally abated *...*

(USE REVERSE SIDE OF THIS ORDER IF NECESSARY)

To cease further operations until the violation has been fully abated.
To continue cessation of operations until the imminent danger is fully abated.
This order is issued in accordance with the provisions of Code *...* of the Well Operator is hereby ORDERED.
in accordance with Code 23-4-1. The well operator or commissioning cost operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.

PURCHASER: *...*
Address: *...*
Oil and Gas Inspector: *...*
Address: *...*
Telephone: *...*

Copies of this ORDER have been placed at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Date: June 19, 1985
Operator's
Well Number MACE 1007
API Well No.: 47 - 13 - 3796
State County Permit

49

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

RECEIVED
JUN 25 1985

NOTICE OF ABATEMENT

OIL & GAS DIVISION
DEPT. OF MINES

WELL TYPE: Oil _____ / Gas _____ / Liquid Injection _____ / Waste disposal _____ /
Underground
If "Gas" - Production _____ / Storage _____ / Deep _____ / Shallow _____
LOCATION: Elevation: _____ Watershed: Hog Run
District: Sherman County: Calhoun Quadrangle: _____
WELL OPERATOR Stearns Drilling + Prod. DESIGNATED AGENT Harry Bejar
Address _____ Address 710 Virginia St. E
Charleston WV 25301

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on 6-19, 1985,

The violation of Code § 22-4-14 heretofore found to exist on April 11, 1985, by Form IV-27, "Notice of Violation" / Form IV-28, "Imminent Danger Order" _____ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

W. W. Mace
Oil and Gas Inspector

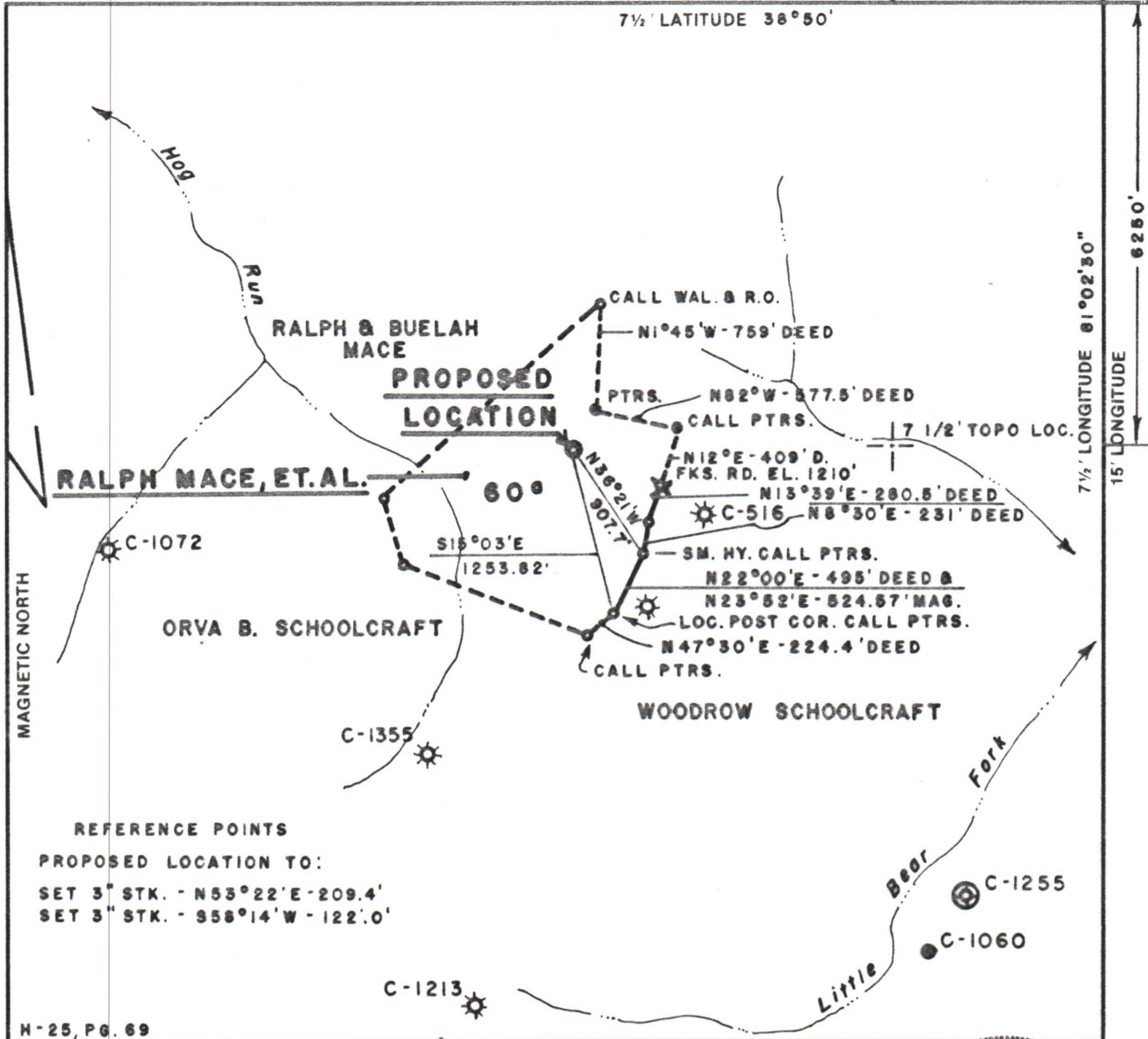
Address _____

Telephone _____

7/11/84

15' LATITUDE
7 1/2' LATITUDE 38°50'

2950'
6250'
7 1/2' LONGITUDE 81°02'30"
15' LONGITUDE



FILE NO. 044-019

MAP NO. 58-D

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1:200

PROVEN SOURCE OF ELEVATION U.S.G.S. DATA FKS. RD. SHOWN EL. 1210'

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)

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1203.94' WATER SHED HOG RUN

DISTRICT SHERMAN COUNTY CALHOUN

QUADRANGLE 7 1/2' MILLSTONE (ARNOLDSBURG S.E.)

SURFACE OWNER FRED & WILLIDENE HALL ACREAGE 21

OIL & GAS ROYALTY OWNER RALPH MACE, ET. AL. LEASE ACREAGE 60 05/17/2024

LEASE NO. 044-019

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 5600'

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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE JULY 11, 1984

OPERATOR'S WELL NO. 1007

API WELL NO. 47-013-3796

STATE COUNTY PERMIT

STERLING DRILLING AND PRODUCTION CO., INC.

ARCADE BUILDING
710 VIRGINIA STREET EAST
CHARLESTON, WEST VIRGINIA 25301

HARRY L. BERGER
VICE PRESIDENT & LAND MANAGER

January 7, 1985

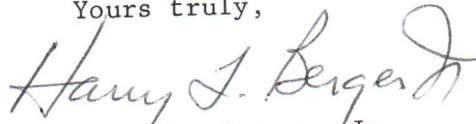
(304) 342-0121

Patrick E. Lewis, Engineering Technician
Department of Mines
Office of Oil and Gas
1615 Washington Street, East
Charleston, WV 25311

Dear Mr. Lewis:

Enclosed you will find the completed Form IV-35 for
Calhoun 3796. I would like to request that this well record
be kept confidential for one year.

Yours truly,



Harry L. Berger, Jr.
Vice President and Land Manager

HLB/bk
Enclosure

RECEIVED
JAN 16 1985

OIL & GAS DIVISION
DEPT. OF MINES

05/17/2024

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

RECEIVED

OCT 23 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3796

Oil or Gas Well _____
(KIND)

Company Sterling
 Address _____
 Farm Mace
 Well No. 1007
 District Sherman County Cal
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			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: Rig moving in & setting up.

19
10-20-84
DATE

J. W. Moore 05/17/2024
DISTRICT WELL INSPECTOR

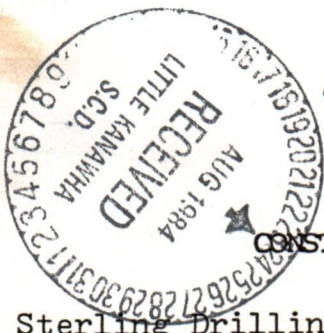


IV-9
(Rev 8-81)

DATE 8-17-84

WELL NO. Mace # 1007

API NO. 47 - 013 - 3796



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

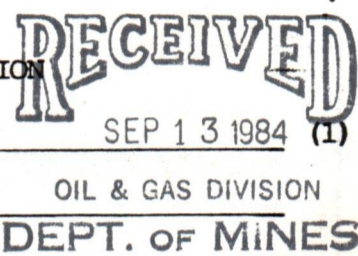
Telephone (212) 682-0204 Telephone (304) 342-0121

LANDOWNER Fred & Willdene Hall 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: 8/31/84

Randall H. Johnson
(SCD Agent)



ACCESS ROAD

LOCATION

Structure _____ (A)

Structure _____ (1)

Size _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

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 (C)

Structure _____ (3)

Spacing 200' for 3.5'

Material _____

Page Ref. Manual _____

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

Mulch Hay or Straw 2 Tons/acre

Seed* Orchard grass 15 lbs/acre

Seed* Orchard grass 15 lbs/acre

Alsike Clover 4 lbs/acre

Alsike Clover 4 lbs/acre

Red Clover 4 lbs/acre

Red Clover 4 lbs/acre

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

PLAN PREPARED BY Richard X. 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.

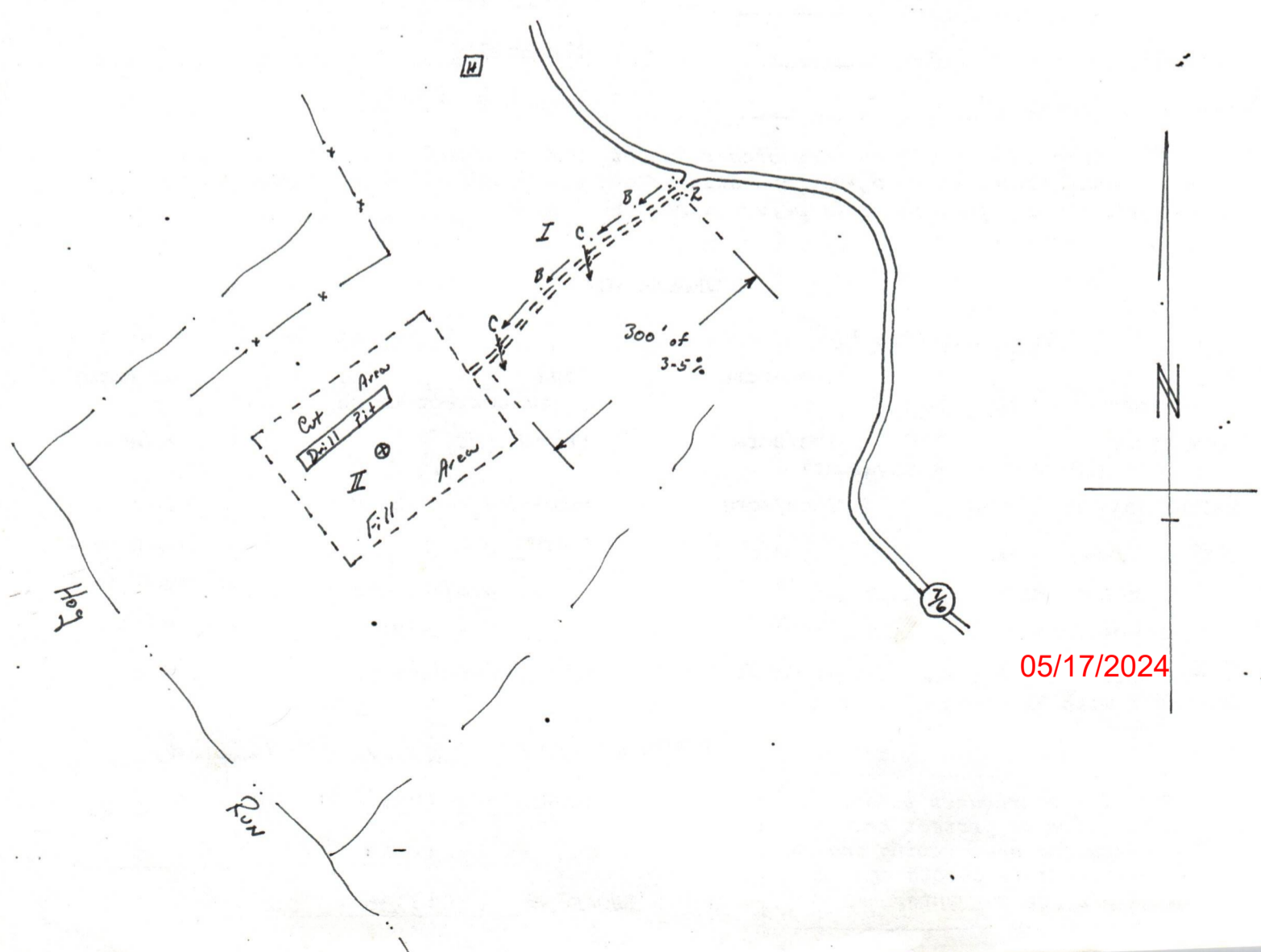
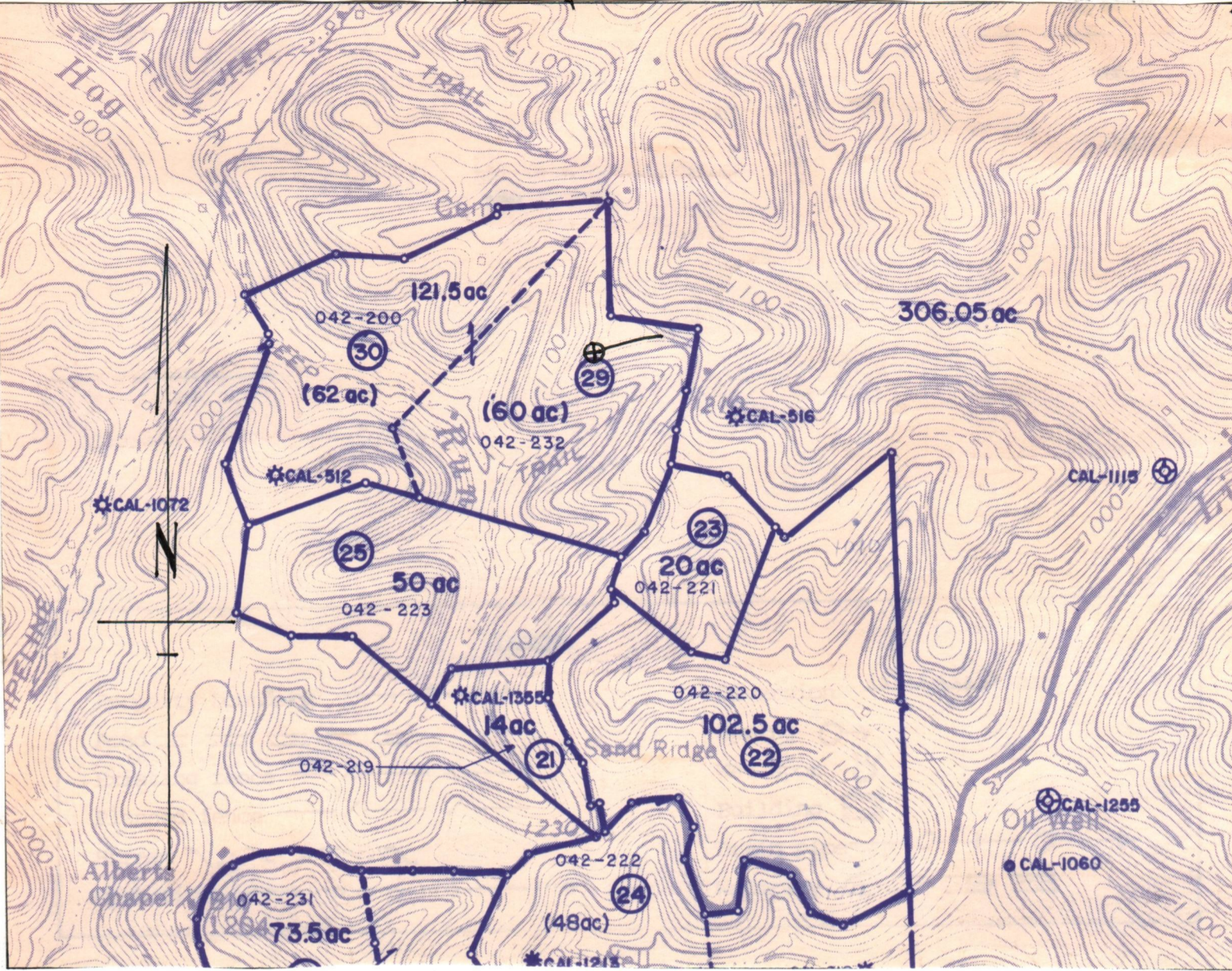
05/17/2024

IV-9 REVERSE
(REV 6-81)

INVOLVED TOPOGRAPHIC MAP
QUADRANGLE 7 1/2' Millstone
Arnoldburg SE

LEGEND

Well Site	⊕
Access Road	—



05/17/2024