



1) Date: August 18, 1983
 2) Operator's Well No. Ralph Mace #1
 3) API Well No. 47 - 013 - 3638
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1044 / Watershed: Bear Fork
 District: Sherman / County: Calhoun / Quadrangle: Millstone 7.5
- 6) WELL OPERATOR Mace Oil & Gas Co / 7) DESIGNATED AGENT Ralph Mace
 Address Rt. 1 Box 65 / Address same
Sand Ridge, Wv. 25274
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:
 Name Deo Mace / Name not known
 Address Rt. 1 Box 5 / Address
Sand Ridge, WV 25274
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate SEP 14 1983
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Big Injun / OIL & GAS DIVISION
 12) Estimated depth of completed well, 2300 feet / DEPT. OF MINES
 13) Approximate strata depths: Fresh, 150 feet; salt, 1300 feet.
 14) Approximate coal seam depths: n/a 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									
Fresh water	10"			X		300	300	To Surface	Kinds <u>By Rule 15-205</u>
Coal									Sizes
Intermediate									
Production	7"			X		2150	2150	200 SKS	Depths set <u>08 AS 124</u> <u>by Rule 15-201</u>
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-013-3638 / Date October 13, 1983

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 13, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>10580</u>
<u>SINGLE ATTACHED</u>	<u>MH</u>	<u>AS</u>	<u>AS</u>	

[Signature]
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) Date: _____

2) Operator's Well No.: _____

3) APT Well No.: _____

4) State: _____ County: _____

5) LOCATION: District: _____ County: _____

6) WELL OPERATOR: Name: _____ Address: _____

7) DESIGNATED AGENT: Name: _____ Address: _____

8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: _____ Address: _____

9) DRILLING CONTRACTOR: Name: _____ Address: _____

10) PROPOSED WELL WORK: Drill / deeper / Re-drill / Stimulate / _____

11) GEOLOGICAL TARGET FORMATION: _____

12) Estimated depth of completed well: _____ feet

13) Approximate total depth: Fresh / _____ feet

14) Approximate oil and gas depth: _____ feet

15) Is coal bed methane in the area? Yes / No

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: _____

12/08/2020



1) Date: August 18, 19 83
 2) Operator's Well No. Ralph Mace #1
 3) API Well No. 47
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1044 Watershed: Bear Fork
 District: Sherman County: Calhoun Quadrangle: Millstone 7.5
- 6) WELL OPERATOR Mace Oil & Gas Co 7) DESIGNATED AGENT Ralph Mace
 Address Rt. 1 Box 65 Address _____
Sand Ridge, v. 25274 same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Doc Mace Name not known
 Address Rt. 1 Box 5 Address _____
Sand Ridge, 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, Big Injun
- 12) Estimated depth of completed well, 2300 feet
 13) Approximate strata depths: Fresh, 150 feet; salt, 1300 feet.
 14) Approximate coal seam depths: n/a 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>10"</u>			<u>X</u>		<u>300</u>	<u>300</u>	<u>To surface</u>		
Coal									Sizes	
Intermediate										
Production	<u>7"</u>			<u>X</u>		<u>2150</u>	<u>2150</u>	<u>see spec</u>	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19 _____

By _____

Its _____

12/08/2023
Coal Owner

1) Date: August 18, 1983
2) Operator's Well No. Ralph Mace # 1
3) API Well No. 47
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

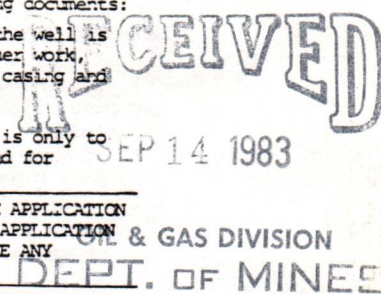
4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Ralph Mace
Address Rt. 1 Box 65
Sand Ridge, WV 25271
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR none
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name none
Address _____
Name _____
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name none
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 NO

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

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

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

WELL OPERATOR Mace oil and gas co
By Ralph Mace
Its _____
Address RT 1 Box 65
Sand Ridge WV
Telephone 656 8693

this 29 day of August, 1983.

My commission expires JUNE 7, 1987.

John V. Fowler
Notary Public, CALHOUN County,
State of West VIRGINIA

12/08/2023

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page



IV-9
(Rev 8-81)

DATE AUG 3 1983
WELL NO. MACE NO. 1
API NO. 47 - 013 - 3638

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME MACE OIL & GAS CO.
Address RT. 1 Box 65
Telephone SANDRIDGE, W.V. 25274
LANDOWNER RALPH W. MACE
Revegetation to be carried out by RALPH W. MACE (Agent)

DESIGNATED AGENT RALPH W. MACE
Address RI. Box 65 SANDRIDGE W.V. 25274
Telephone (304) 655-8693
SOIL CONS. DISTRICT LITTLE KANAWHA

This plan has been reviewed by LITTLE Kanawha SCD. All corrections and additions become a part of this plan: 8-4-83 (Date)

Janett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>CULVERT 12"</u> (A)	Structure _____ (1)
Spacing _____	Material _____
Page Ref. Manual <u>2-9</u>	Page Ref. Manual _____
Structure <u>DITCH</u> (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual <u>2-12</u>	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

No special structure
as this well will
be drilled with
a cable B19.

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 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch HAY 2 Tons/acre

Seed* Ky 31 40 lbs/acre
LADINO CLOVER 5 lbs/acre
_____ lbs/acre

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch HAY 2 Tons/acre

Seed* Ky 31 40 lbs/acre
LADINO CLOVER 5 lbs/acre
_____ lbs/acre

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

PLAN PREPARED BY WILLIAM A. ROBERTS, L.L.S. 12/08/2023
ADDRESS P. O. BOX 83
REEDY, WEST VIRGINIA 25270
PH 927-5150
PHONE NO. _____

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

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE MILLSTONE T.S.

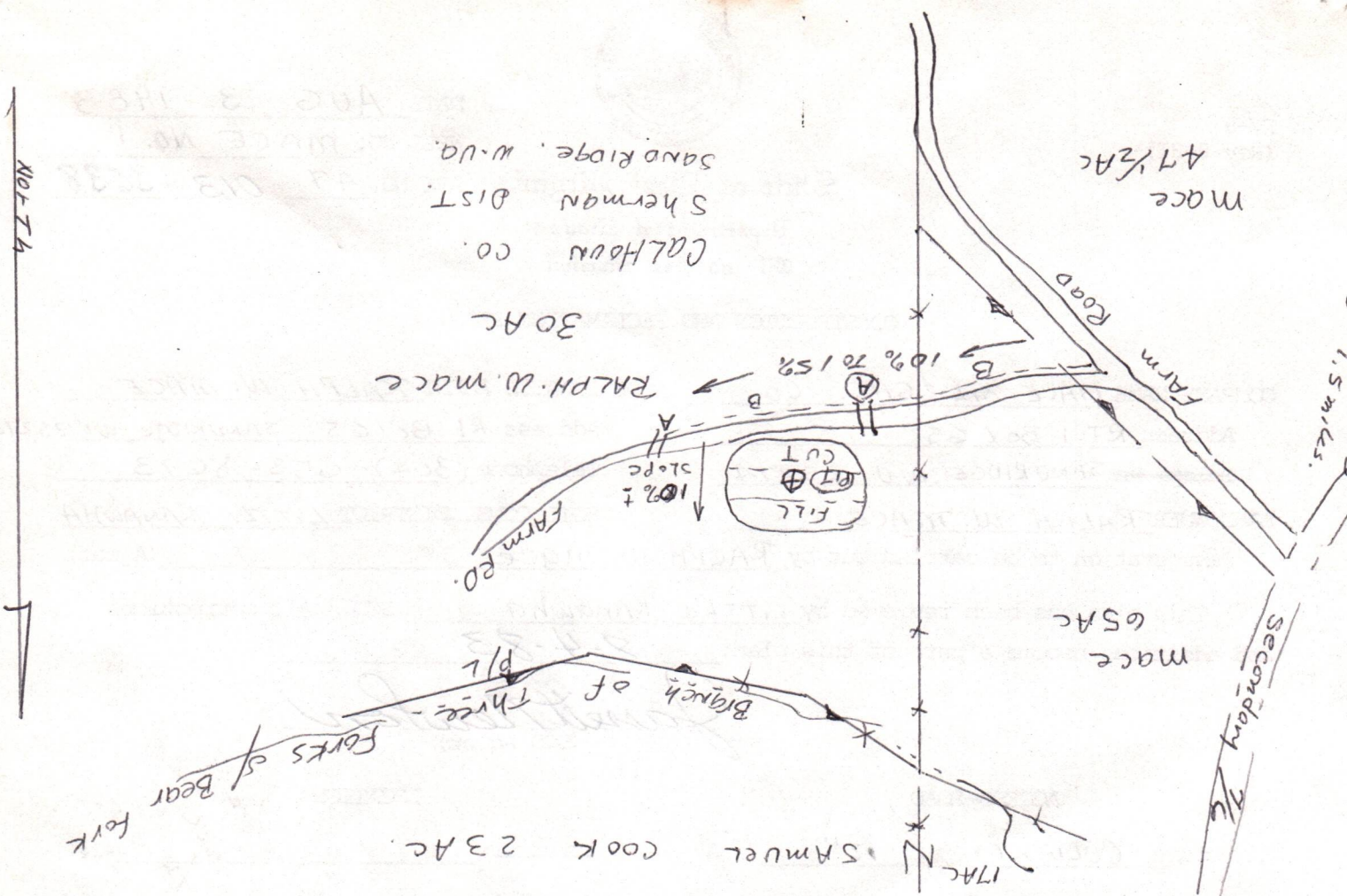
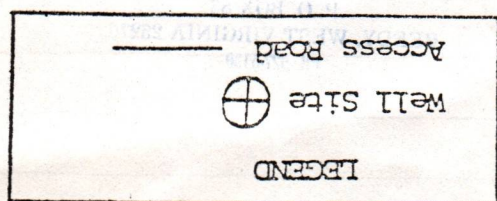
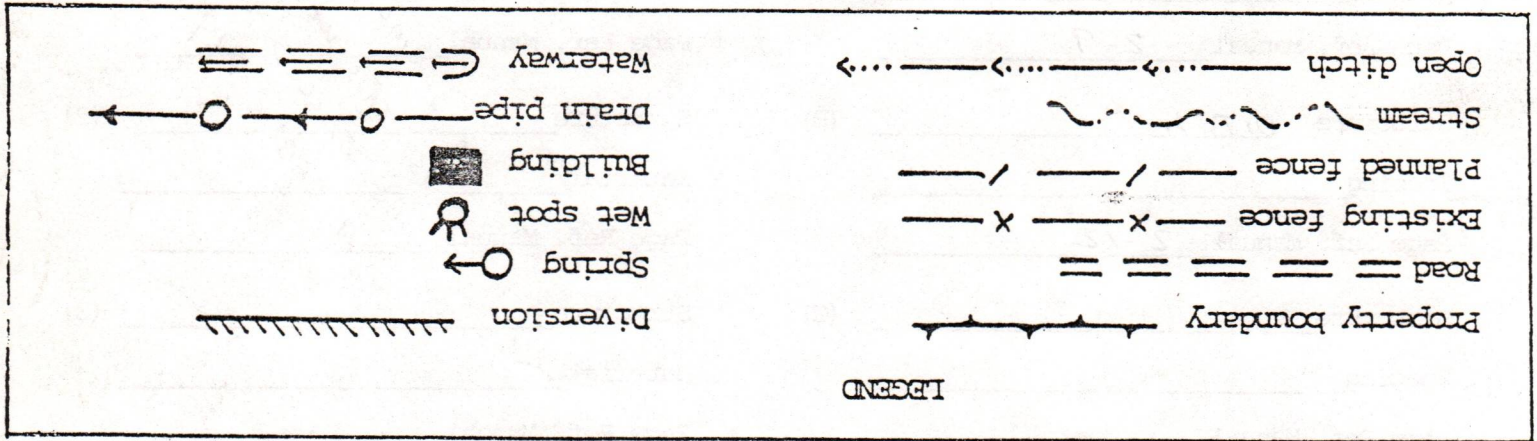
12/08/2023

See copy attached

WELL SITE PLAN

Location is in a pasture field on a small bench/approx 10% slope. Access will follow an existing up-graded farm road to within 70' of location. Access will require ditching & 2-12" culverts. Well will be drilled with a cable tool & will not require much room.

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.





1) Date: August 18, 1983
 2) Operator's Well No. Ralph Mace #1
 3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1044 Watershed: Deer Fork
 District: Sherman County: Calhoun Quadrangle: Hillstone 7.5
- 6) WELL OPERATOR Mace Oil & Gas Co 7) DESIGNATED AGENT Ralph Mace
 Address Rt. 1 Box 65 Address _____
Sand Ridge, W. 25274 same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace Name not known
 Address Rt. 1 Box 5 Address _____
Sand Ridge, W. 25274
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
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 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Big Injun
- 12) Estimated depth of completed well, 2300 feet
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 14) Approximate coal seam depths: n/a 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		Kinds	Sizes
Conductor	<u>10"</u>			<u>X</u>		<u>300</u>	<u>300</u>	<u>To surface</u>		
Fresh water										
Coal										
Intermediate										
Production	<u>7"</u>			<u>X</u>		<u>2150</u>	<u>2150</u>			
Tubing										
Liners										

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.)
 NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)
Ralph Mace
 (Signature) Date: Aug 18-83

 (Signature) Date: _____

12/08/2023
Surface Owner

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

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

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

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

Where to file comments and obtain additional information:

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

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

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

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

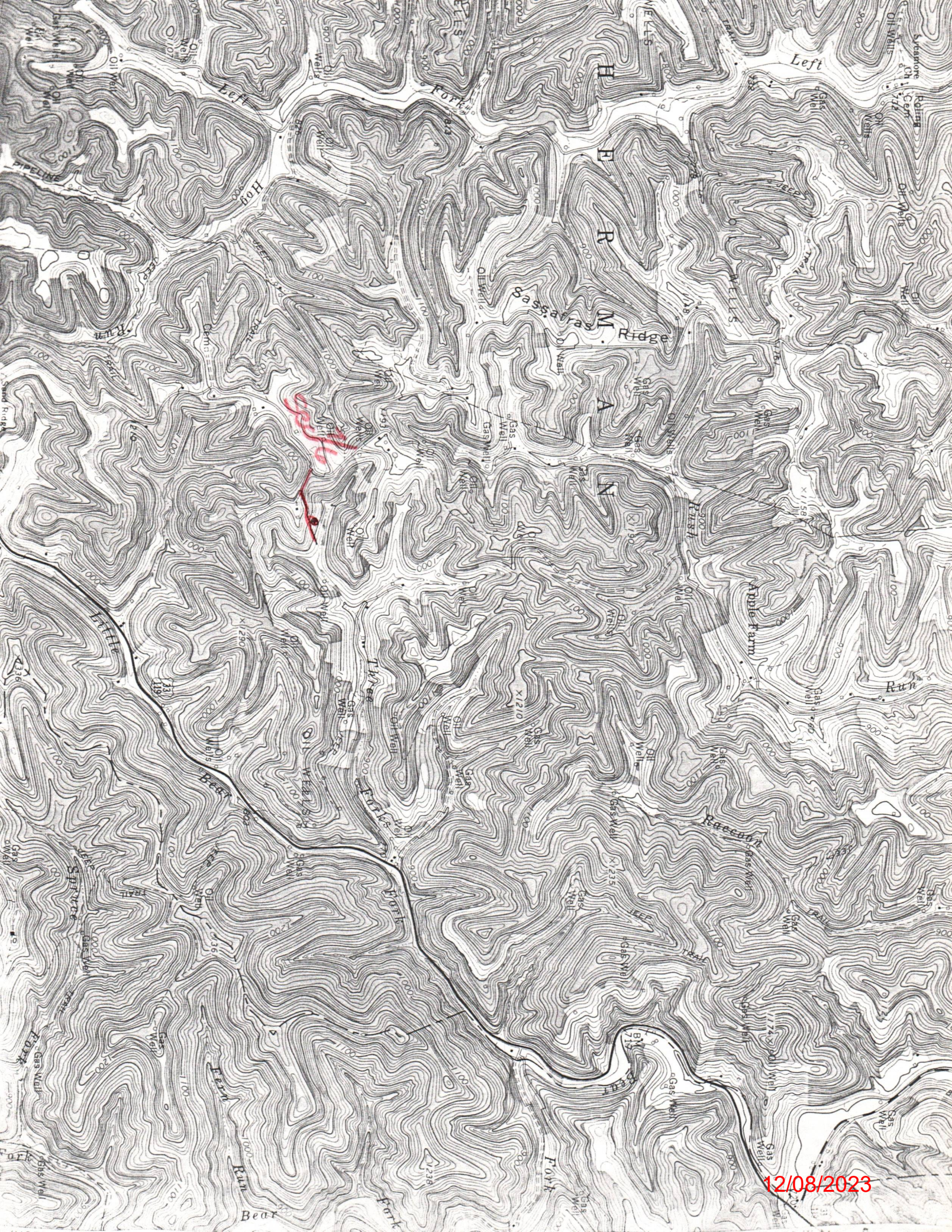
Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

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

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

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

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



12/08/2023



WR-35

MAY 21 1986

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date January 7, 1986
Operator's Well No. Mace #1
Farm Ralph Mace
API No. 47 - 13 - 3638

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: 1044 Watershed Little Bear Fork
District: Sherman County Calhoun Quadrangle Millstone

COMPANY Mace Oil & Gas
ADDRESS Rt. 1 Box 65, Sand Ridge WV
DESIGNATED AGENT Ralph Mace
ADDRESS same
SURFACE OWNER Same
ADDRESS
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Sand Ridge WV
PERMIT ISSUED October 13, 1983
DRILLING COMMENCED October 25, 1983
DRILLING COMPLETED June 10, 1985
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			
8 5/8	300	300	Cement to Surface
7			
5 1/2	2239	2239	76 Cu/Ft
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Shale Depth 4120 feet
Depth of completed well 4120 feet Rotary / Cable Tools X
Water strata depth: Fresh 170 feet; Salt 1900 feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3150 feet
Gas: Initial open flow 20,000 Mcf/d Oil: Initial open flow 1/2 Bbl/d
Final open flow 20,000 Mcf/d Oil: Final open flow 1/2 Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 75 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation Injun Pay zone depth 2080 feet
Gas: Initial open flow 30,000 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 30,000 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 60 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

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

Perforated 2080 to 2090 ft. and reactivated with 600 Barrell Water, 30,000 Pounds Sand, 500 Gallon 15% Acid. Fracture was ineffective.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Loam			0	10	
Sandstone			10	135	
Slate			135	200	
Red Rock			200	270	
Slate			270	400	
Red Rock			400	475	
Sand			475	515	
Red Rock			515	590	
Slate			590	735	
Red Rock			735	847	
Slate			847	970	
Lime			970	1100	
Sand			1100	1405	
Slate			1405	1565	
Sand			1565	1735	
Lime			1735	1750	
Slate			1750	1770	
Lime			1770	1850	
Sand Maxon			1850	1925	
Slate			1925	1960	
Pencil Cave			1960	1965	
Big Lime			1965	2060	
Injun Sand			2060	2120	
Slate			2120	2175	
Lime Shells & Slate			2175	3150	
Brown Shale			3150	3170	
Slate & Shells			3170	3740	
Shale			3740	4120	
Total Depth			4120		

(Attach separate sheets as necessary)

Mace Oil & Gas
Well Operator

By: Ralph M. Mace

Date: May 10, 1986

12/08/2023

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 coal, encountered in the drilling of a well."

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

RECEIVED

NOV 1 - 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 13-3638

Oil or Gas Well _____
(KIND)

Company Mace Off

Address _____

Farm A. Mace

Well No. 1

District Sherman County Colborne

Drilling commenced 10-25-83

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 Stewart Dilling

Remarks: 214' of 8 3/8" casing, Rowell cemented 10-26-83
cement did not circulate, filled from top.

10-26-83
DATE

D. Mace 12/08/2023
DISTRICT WELL INSPECTOR

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

MAY 21 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3638 ^{ISSUED} (10-13-83)

Oil or Gas Well _____
(KIND)

Company <u>Mace Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Mace</u>	16			
Well No. <u>1</u>	13			Size of _____
District <u>Sherman</u> County <u>Cal.</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/4			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:
Release Reclamation

5-17-86

DATE

Deo Mace

INSPECTOR

12/08/2023

Form 26
2/16/82

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

8881 I S YAM

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

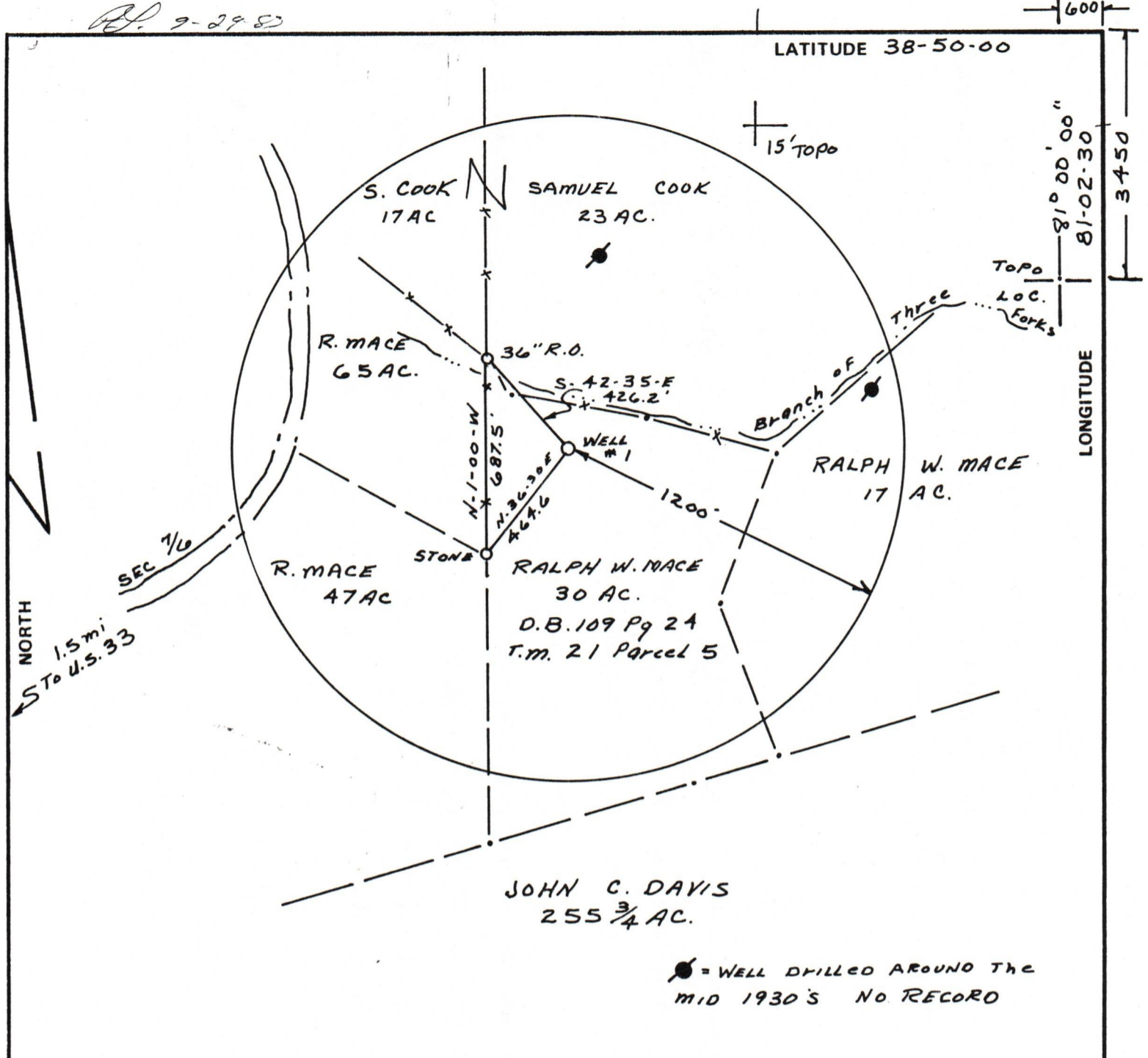
Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

12/08/2023
DISTRICT WELL INSPECTOR



● = WELL DRILLED AROUND THE MID 1930'S NO RECORD

FILE NO. _____
 DRAWING NO. 83-101-76
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. SEC. 7/6 E
7/4 EL = 1193

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) William A. Roberts
 R.P.E. _____ L.L.S. 714

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8-78)



DATE 8-4, 19 83
 OPERATOR'S WELL NO. MACE NO. 1
 API WELL NO. _____
47 - 013 - 3638
 STATE COUNTY PERMIT

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 1044.0 WATER SHED BEAR FORK
 DISTRICT SHERMAN COUNTY CALHOUN
 QUADRANGLE MILLSTONE 7.5
 SURFACE OWNER RALPH W. MACE ACREAGE 30
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE SAME
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

12/08/2023

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2800'
 WELL OPERATOR MACE OIL & GAS CO. DESIGNATED AGENT RALPH W. MACE
 ADDRESS RT 1 Box 65 SANDRIDGE, W.VA. 25274 ADDRESS RT 1 Box 65 SANDRIDGE, W.VA. 25274

Calhoun 3638