



1) Date: August 1, 1983
 2) Operator's Well No. 1 - 1916
 3) API Well No. 47 - 053 - 0304
 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: 645.02 Watershed: Flatfoot Creek
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Kenneth Butler 736-4885 Name Union Drilling, Inc.
 Address RFD #1 Address P. O. Drawer 40
Barboursville 25504 Buckhannon, WV 26201
- 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, Devonian Shale
- 12) Estimated depth of completed well, 3500 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? 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	9 5/8		36#	X		300	300	to surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	7		20#	X		2250	2250	400 sks.	
Production	4 1/2		10.5#	X			3500	350 sks. or	Depths set
Tubing								as required	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-053-0304

Date August 23 19 83

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 August 23, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>OK</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>7533</u>
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Michael Lewis
Administrator, Office of Oil and Gas

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS
OFFICE USE ONLY

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

1) LOCATION: District: [Blank] County: [Blank] Well No: [Blank] Elevation: [Blank] B (H "Gas" Production): [Blank] Underground status: [Blank] Depth: [Blank] Shallow: [Blank]

2) WELL OPERATOR: Name: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]

3) DESIGNATED AGENT: Name: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]

4) DRILLING CONTRACTOR: Name: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]

5) PROPOSED WELL WORK: Drill: [Blank] Depth: [Blank] Redrill: [Blank] Submerse: [Blank] Plug out old formation: [Blank] Restore new formation: [Blank]

6) GEOLOGICAL TARGET FORMATION: [Blank]

7) APPROXIMATE COAL SEAM DEPTHS: [Blank]

8) APPROXIMATE TRAP DEPTHS: [Blank]

9) APPROXIMATE DEPTH OF COMPLETED WELL: [Blank]

10) OTHER PHYSICAL CHANGES IN WELL (SPECIFY): [Blank]

Casing or Tubing Type	Size	Grade	SPICIFICATIONS			Total in well	Cement Return or Slugs (Cubic Feet)	Packers
			Weight (lb/ft)	Wall	Joint			
Conductor	2 7/8		30#	10'	30'	800		
Intermediate			30#	10'	2250			
Production	4 1/2		30#	10'	2250			

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

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

08/25/2023

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

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: 645.02 Watershed Flatfoot Creek
District: Clendenin County: Mason Quadrangle Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name _____ Name Union Drilling, Inc.
Address _____ Address P. O. Drawer 40
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill x / Drill Deeper ___ / Redrill ___ / Stimulate x /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well (or actual depth of existing well), 3500 feet
- 13) Approximate water strata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? 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	9 5/8		36#	x		300	300	to surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	7		20#	x		2250	2250	400 sks.	
Production	4 1/2		10.5#	x			3500	350 sks. OR	Depths set
Tubing								as required	
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 (or less than 5 days if the Application is to plug a well), 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: _____

(Signature) Date: _____

By _____

(Signature) Date: _____

Its _____ Date: _____

RECEIVED
08/25/2023

AUG - 2 1983

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.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

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, WV 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 personally served or mailed to you 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. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) 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 should 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.

08/25/2023

DEPT. OF MINES
OFFICE OF OIL & GAS



IV-9
(Rev 8-81)

DATE July 27, 1983

WELL NO. 1916

API NO. 47-053-0304

State of West Virginia

Department of Mines

Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.

DESIGNATED AGENT Joseph C. Vanzant, Jr.

Address P O Drawer 40, Buckhannon W V 26201

Address P O Drawer 40, Buckhannon W V 26201

Telephone (304) 472-4610

Telephone (304) 472-4610

LANDOWNER Vernon N. Varnum, et ux

SOIL CONS. DISTRICT Western

Revegetation to be carried out by Union Drilling Inc. Joseph C. Petty, VP (Agent)

This plan has been reviewed by Western SCD. All corrections and additions become a part of this plan:

July 28, 1983
(Date)
Leslie Rayburn
(SCD Agent)

ACCESS ROAD

LOCATION

Structure 36" CMP culvert w/rip rap (A)

Structure Drill pit (1)

Spacing At existing drain bed

Material Earth

Page Ref. Manual 1:8

Page Ref. Manual _____

Structure Ditch relief cross drain (B)

Structure _____

Spacing 300'

Material _____

Page Ref. Manual 1:6

Page Ref. Manual AUG - 2 1983

Structure Roadway ditch (C)

Structure OIL & GAS DIVISION (3)

Spacing As needed

Material DEPT. OF MINES

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 3 Tons/acre

Lime 3 Tons/acre

or correct to pH 6.5

or correct to pH 6.5

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

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

Mulch Hay or straw 2 Tons/acre

Mulch Hay or straw 2 Tons/acre

Seed* Orchard grass 30 lbs/acre

Seed* Orchard grass 30 lbs/acre

Red clover 4 lbs/acre

Red clover 4 lbs/acre

Ladino clover 2 lbs/acre

Ladino clover 2 lbs/acre

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

PLAN PREPARED BY Ronald L. Eastham & Associates
Ronald L. Eastham
08/25/2023

ADDRESS P.O. Box 1544


Huntington, WV 25716


PHONE NO. 304/525-3171

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

TEACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Apple Grove, WV

LEGEND


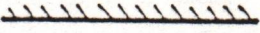







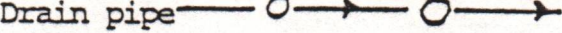

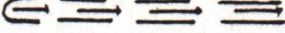
Well Site 

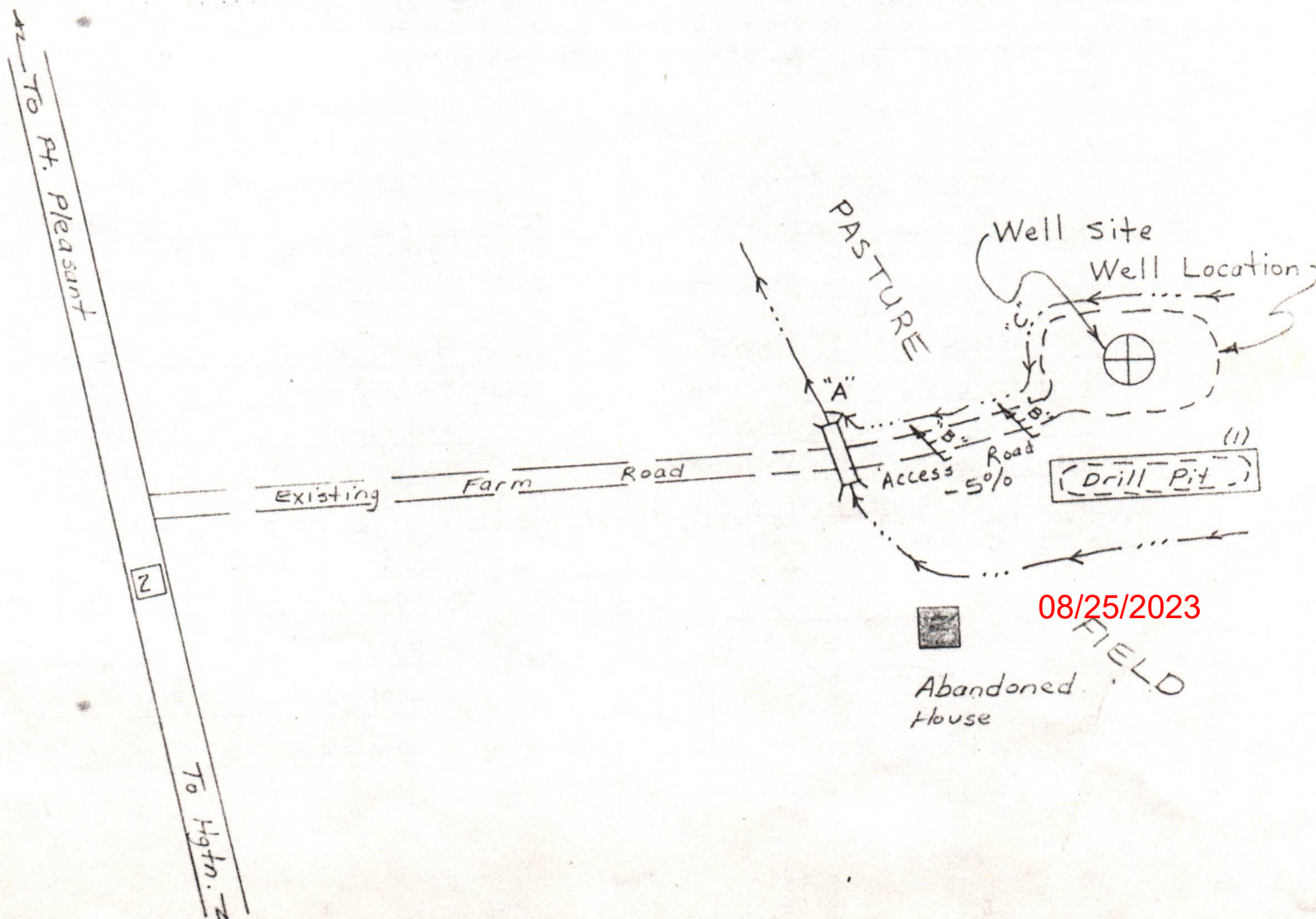
Access Road 

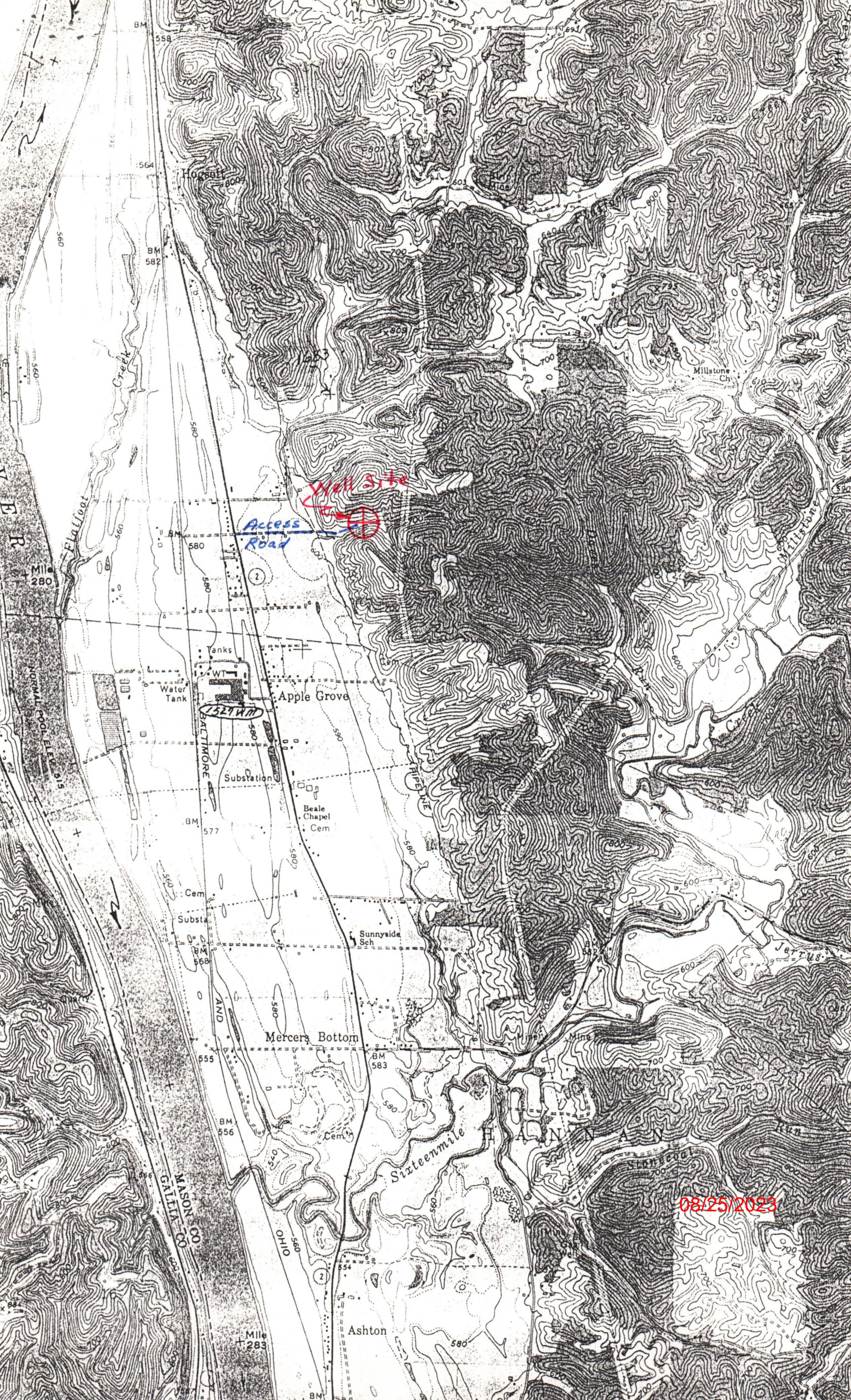
WELL SITE PLAN

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

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 





1) Date: August 1, 1983

2) Operator's Well No. 1 - 1916

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

5(i) COAL OPERATOR

(i) Name Lucille W. & Vernon N. Varnum Address 2656 Collis Avenue Huntington, WV 25702

Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

(ii) Name Address

Name Lucille W. & Vernon N. Varnum Address 2656 Collis Avenue Huntington, WV 25702

(iii) Name Address

Name Address

P 311 719 135

RECEIPT FOR CERTIFIED MAIL

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

5(i) COAL LESSEE WITH DECLARATION ON RECORD:

Name Address

TO THE PER

- (1) (2) (3)

THE F WHICH ARE (FORM IV-2 ACTION AT

Take erator pro for a Well. Department and depict Construct by hand to before th

6) EXTRACT Check a Incl The

7) ROYALTY Is the or other for comp to the volume of oil or gas so extracted, produced or marketed? Yes No XX

PS Form 3800, Apr. 1976

Form with fields: SENT TO Mr. & Mrs. Vernon N. Varnum, STREET AND NO. 2656 Collis Avenue, P.O. STATE AND ZIP CODE Huntington, WV 25702, POSTAGE, CERTIFIED FEE, SPECIAL DELIVERY, RESTRICTED DELIVERY, RETURN RECEIPT SERVICE, TOTAL POSTAGE AND FEES, POSTMARK OR DATE 8/1/83

this Form and the following documents:

IV-2(B) (or Form IV-4 if the well is lived in the drilling or other work, f applicable, the proposed casing and

ation on Form IV-6; and IV-9)unless the well work is only to tion and sediment control and for

YOU HAVE RIGHTS REGARDING THE APPLICATION USE SIDE OF THE COPY OF THE APPLICATION YOU ARE NOT REQUIRED TO TAKE ANY

West Virginia Code, the undersigned well op- plication and accompanying documents office of Oil and Gas, West Virginia. ation described on attached Application vice, the Application, the plat, and the registered or certified mail or delivered n in certain circumstances) on or ator.

ing contract or contracts by which

). (See reverse side for specifics.)

or gas based upon a lease or leases well royalty or any similar provision gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No XX

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 Joseph C. Pettey

this 1st day of August, 1983. My commission expires May 22, 1989.

Sharon L. Kelley Notary Public, Upshur County, State of West Virginia

WELL

OPERATOR Union Drilling, Inc.

By Joseph C. Pettey Its Joseph C. Pettey, Vice President of Address P. O. Drawer 40 Production Buckhannon, WV 26201 Telephone (304) 472-4610

COMMISSIONED AS SHARON L. KELLEY

RECEIVED

AUG - 2. 1983

OIL & GAS DIVISION DEPT. OF MINES

08/25/2023

INSTRUCTIONS TO APPLICANT

P 311 719 155

RECEIPT FOR CERTIFIED MAIL

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

SENT TO	
Mr. & Mrs. Vernon N. Varnum	
STREET AND NO.	
2656 Collis Avenue	
P.O., STATE AND ZIP CODE	
Huntington, WV 25702	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	c
SPECIAL DELIVERY	c
RESTRICTED DELIVERY	c
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	
8/3/83	1916 Permit

PS Form 3800, Apr. 1976

PS Form 3811, July 1982

RETURN RECEIPT

Office of
necessary.
word to be
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NG LEASE (S)

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
 Show to whom and date delivered
 Show to whom, date, and address of delivery ..
 RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
Mr. & Mrs. Vernon N. Varnum
2656 Collis Avenue
Huntington, WV 25702

4. TYPE OF SERVICE: ARTICLE NUMBER
 REGISTERED INSURED
 CERTIFIED COD P 311 719 135
 EXPRESS MAIL

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE Addressee Authorized agent
Mrs. Vernon N. Varnum

5. DATE OF DELIVERY POSTMARK
8/2/83 (may be on reverse side)
AUG 3 1983 HUNTINGTON

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

Under the oath required to make this I depose and say that I am the person who

- (1) the tract of land is the same tract applies, partly or wholly depicted Construction and Reclamation Plan;
- (2) the parties and recordation data (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
Lucille W. & Vernon N. Varnum	Cyclops Corp.	1/8th	50	579
Cyclops Corp.	Union Drilling, Inc.		49	507

Vernon Varnum #1 1916

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

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SEP 26 1983

INSPECTOR'S WELL REPORT

Permit No. 053 304

OIL & GAS DIVISION
DEPT. OF MINES
(KIND)

Company <u>Elmira Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm _____	16			Kind of Packer _____
Well No. <u>1-1916</u>	13			
District _____ County <u>Mason</u>	10			Size of _____
Drilling commenced <u>9 21 83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: 9 21 83 Drilling Started.
9/22/83 656' + Drilling
To Run 834' 8 5/8 pipe.

9 22 83

DATE

George T. Tolson
08/25/2023
DISTRICT WELL INSPECTOR

IV-35
(Rev 8-81)

RECEIVED

NOV 29 1983

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date November 14, 1983
Operator's
Well No. 1 - 1916
Farm Vernon M. Varnum
API No. 47 - 053 - 0304

WELL OPERATOR'S REPORT
OF

CORRECTED

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: 645 Watershed Flatfoot Creek
District: Clendenin County Mason Quadrangle Apple Grove

COMPANY Union Drilling, Inc.
ADDRESS P. O. Drawer 40, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Vanzant, Jr.
ADDRESS P. O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER Lucille W. & Vernon Varnum
ADDRESS 2656 Collis Avenue, Huntington, WV 25702
MINERAL RIGHTS OWNER Same as Surface
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tapbaloh ADDRESS Route #1, Box 101-A
Ripley, WV 25271
PERMIT ISSUED August 23, 1983
DRILLING COMMENCED 09/21/83
DRILLING COMPLETED 09/28/83
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 Cord.	30'	30'	
13-10"			
9 5/8	815.60'	815.60'	295 cf
8 5/8			
7	681.50' 1984.00'	681.50'	94 cf
5 1/2			
4 1/2		3188.75'	146 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3394 feet
Depth of completed well 3394 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 686 feet; Salt 845, 1230 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3394 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 169 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests ? hours

Static rock pressure 600 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

08/25/2023

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

(Continue on reverse side)

Mason 304

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

On 10/07/83 Halliburton Foam Fractured the Devonian Shale (2770/3094) with 60,000# sand, 184 BBL Water and 1,186,000 SCF Nitrogen.

OIL & GAS DIVISION
DEPT. OF MINES

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	3	
Sand, Shale and Red Rock			3	1260	Damp hole at 686'
Big Lime			1260	1380	Water at 845' 2"
Big Injun			1380	1684	Water at 1230' 3 to 4"
Sand and Shale			1684	1898	
Coffee Shale			1898	1908	
Berea			1908	1934	
Top of Devonian Shale to TD			1934	3394	

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator
By: Joseph C. Pettey
Date: November 14, 1983

Joseph C. Pettey
Vice President of Prod
08/25/2023

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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED

JUN 12 1984

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. <u>053-0304</u>	County <u>Mason</u>
Company <u>Union Drilling, Inc.</u>	District <u>Clendenin</u>
Inspector <u>JERRY TEPHABOCK</u>	Farm <u>Vernon M. Varnum</u>
Date <u>December 6, 1983</u>	Well No. <u>1-1916</u> Issued <u>8-23-83</u>

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	✓	
23.02	Maintained access roads	✓	
25.01	Necessary equipment to prevent waste	✓	
23.03	Reclaimed drilling site	✓	
23.04	Reclaimed drilling pits	✓	
23.05	No surface or underground pollution	✓	
7.05	Identification markings	✓	

COMMENTS: _____

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: *Jerry Tephalock*
 DATE: 478/08/25/2023



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

June 29, 1984

Union Drilling, Inc.
P.O. Drawer 40
Buckhannon, W.Va. 26201

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
053-0302	W.E. Kirk # 1-1915	Clendenin
053-0303	Dale Nibert # 2-1912	Clendenin
053-0304	Vernon N. Varnum etux # 1-1916	Clendenin
053-0305	Junior F. Powell # 1-1914	Clendenin
053-0309	Inez Grace Newman # 1-1913	Clendenin

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

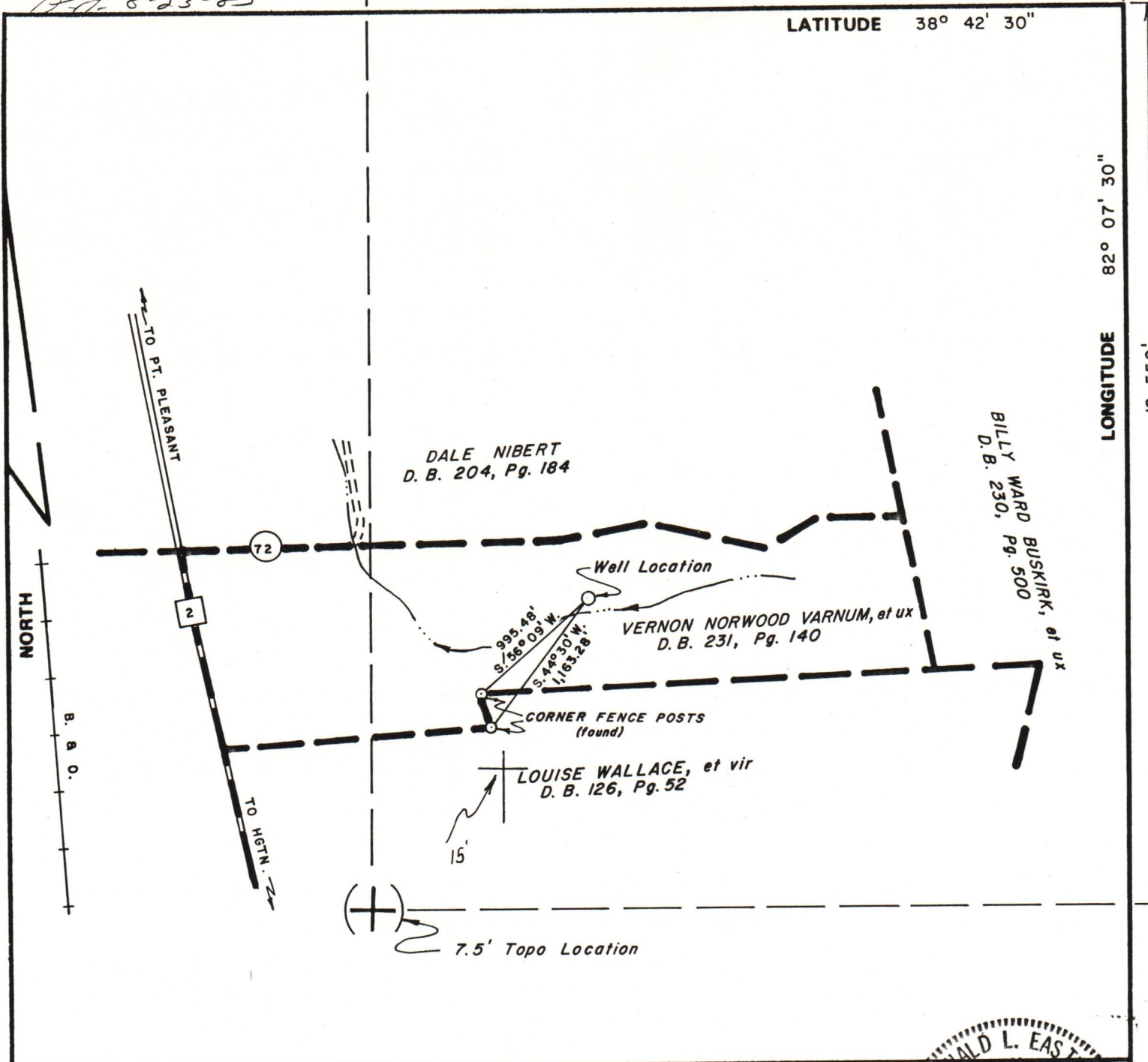
Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

TMS/ chm

08/25/2023

LATITUDE 38° 42' 30"

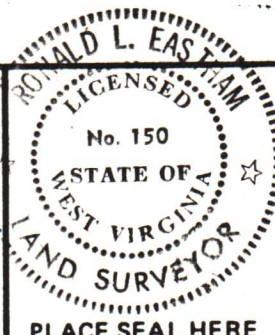
LONGITUDE 82° 07' 30"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION NGS B. M. "G-118"
 Elev. = 579.851

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) Ronald L. Eastham
 R.P.E. _____ L.L.S. 150



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE July 22, 19 83
 OPERATOR'S WELL NO. 1916
 API WELL NO. _____
47 - 053 - 0304
 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 645.02 WATER SHED Flatfoot Creek
 DISTRICT Clendenin COUNTY Mason
 QUADRANGLE Apple Grove
 SURFACE OWNER Vernon Norwood Varnum, et ux ACREAGE 130
 OIL & GAS ROYALTY OWNER Vernon Norwood Varnum, et ux LEASE ACREAGE 130
 LEASE NO. C-2-189

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

08/25/2023

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 3,500'
 WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
 ADDRESS Drawer 40 ADDRESS Drawer 40
 Buckhannon, WV 26201 Buckhannon