



1) Date: February 24, 19 84  
 2) Operator's Well No. 2014 - 1  
 3) API Well No. 47 - 053 - 0345  
 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: 562.10 Watershed: Mud Run  
 District: Clendenin County: Mason Quadrange: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc.  
 Address Post Office Drawer 40  
 Buckhannon, WV 26201
- 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.  
 Address Post Office Drawer 40  
 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Jerry Tephabock  
 Address Route 1, Box 101-A  
 Ripley, WV 25271
- 9) DRILLING CONTRACTOR:  
 Name Union Drilling, Inc.  
 Address Post Office Drawer 40  
 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

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 FEB 27 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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	11-3/4		32	X		30'	30'			
Fresh water										
Coal						762'	762'			
Intermediate	8-5/8		23	X		1000'	1000'	to surface	by rule 15.05	
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	by rule 15.01	
Tubing										
Liners										

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0345

March 26, 19 84  
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 26, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <i>lo</i>	Plat: <i>MW</i>	Casing: <i>MW</i>	Fee: <i>014-527</i>
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*[Signature]*  
 Administrator, Office of Oil and Gas

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

File

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

08/25/2023



OFFICE USE ONLY

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

1) Well No. \_\_\_\_\_ State \_\_\_\_\_ County \_\_\_\_\_

2) Well Name \_\_\_\_\_

3) Well Location \_\_\_\_\_

4) Well Operator \_\_\_\_\_

5) Well Depth \_\_\_\_\_

6) Well Type \_\_\_\_\_

7) Well Status \_\_\_\_\_

8) Well Construction \_\_\_\_\_

9) Well Completion \_\_\_\_\_

10) Well Production \_\_\_\_\_

11) Well Abandonment \_\_\_\_\_

12) Well Restoration \_\_\_\_\_

13) Well Decommissioning \_\_\_\_\_

14) Well Relinquishment \_\_\_\_\_

15) Well Reopening \_\_\_\_\_

16) Well Conversion \_\_\_\_\_

17) Well Modification \_\_\_\_\_

18) Well Condition \_\_\_\_\_

19) Well Safety \_\_\_\_\_

20) Well Security \_\_\_\_\_

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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: \_\_\_\_\_

Blanket	4/14	4/14	4/14
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08/25/2023



IV-9  
(Rev 8-81)

DATE February 18, 1984

WELL NO. 2014-1

State of West Virginia  
Department of Mines  
Oil and Gas Division

API NO. 47-053-0345

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.  
Address P O Drawer 40  
Buckhannon, WV 26201  
Telephone 304/472-4610

DESIGNATED AGENT Joseph C. Vanzant  
Address P O Drawer 40  
Buckhannon, WV 26201  
Telephone 304/472-4610

LANDOWNER Verlin E. Childers

SOIL CONS. DISTRICT Western

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

This plan has been reviewed by Western SCD. All corrections  
and additions become a part of this plan: Feb 21, 1984  
(Date)

Leslie Rayburn  
(SCD Agent)

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FEB 27 1984

ACCESS ROAD

LOCATION OIL & GAS DIVISION

DEPT. OF MINES (1)

Structure CMP Culvert 12" min. (A)  
Spacing At Route 2  
Page Ref. Manual 2:7

Structure Drill pit  
Material Earth  
Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (B)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

~~Structure~~ Level Bottom (2)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (C)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_  
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

Lime 3 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or straw 2 Tons/acre  
Seed\* Orchard Grass 30 lbs/acre  
Red Clover 4 lbs/acre  
Ladino Clover 2 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 or straw 2 Tons/acre  
Seed\* Orchard Grass 30 lbs/acre  
Red Clover 4 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.

08/25/2023

PLAN PREPARED BY C. T. Tolley, Jr.


ADDRESS 7911 Sissonville Drive  
Sissonville, WV 25320


PHONE NO. 304/988-9432

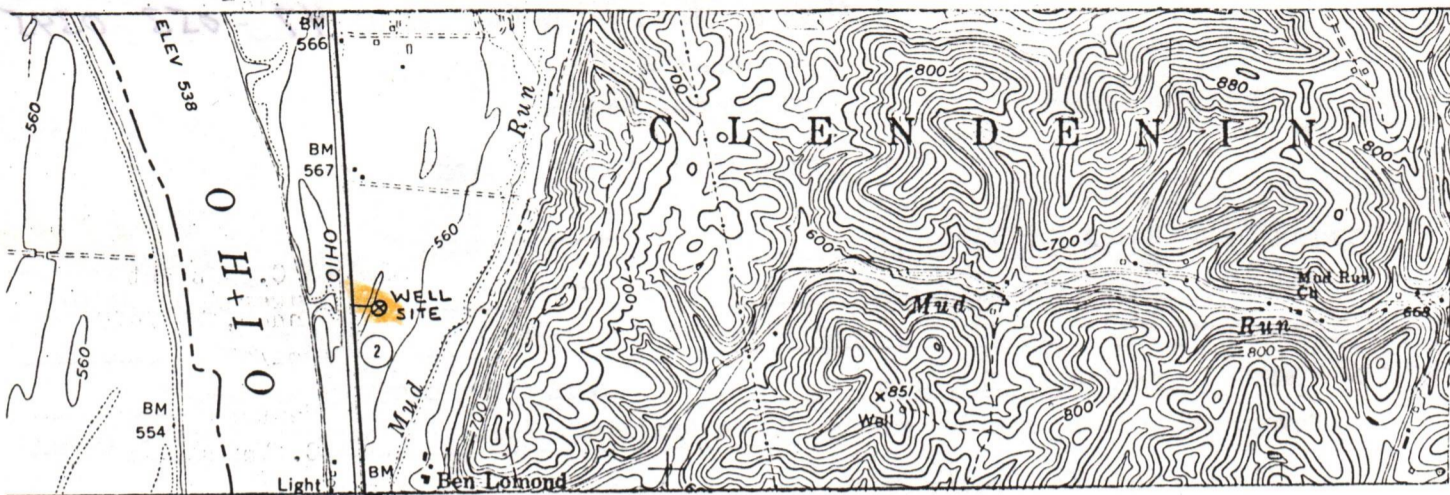
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE APPLE GROVE

LEGEND

Well Site 













Access Road 

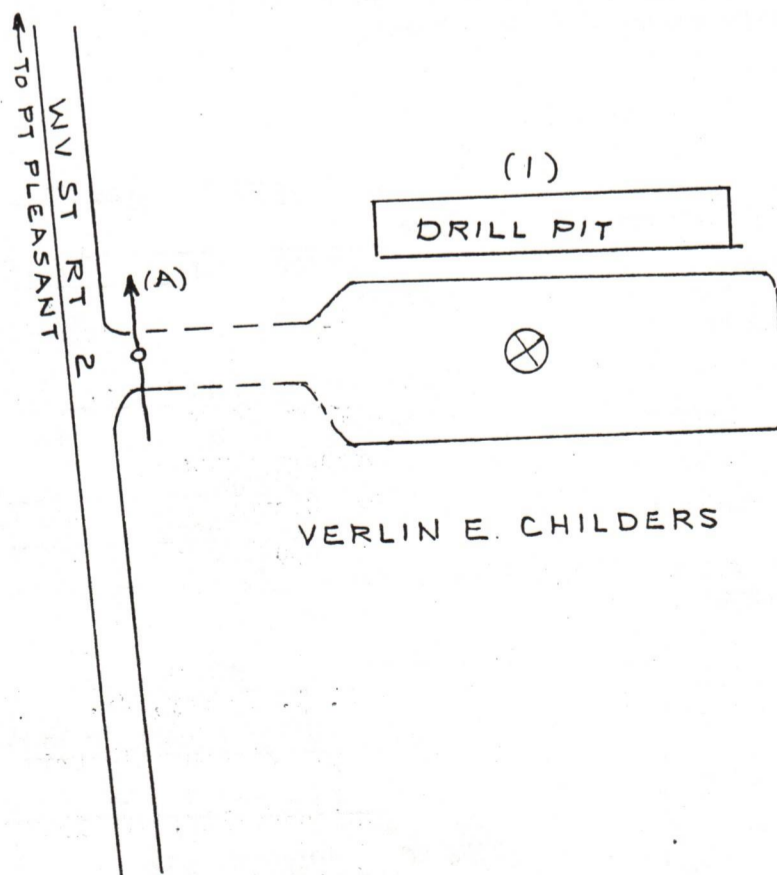


WELL SITE PLAN

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.

LEGEND

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



08/25/2023

IV-35  
(Rev 8-81)

**RECEIVED**  
NOV 7 - 1984

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



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date November 2, 1984  
Operator's Well No. 1 - 2014  
Farm Verlin Childers #1  
API No. 47 - 053 - 0345

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

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

LOCATION: Elevation: 562.1' Watershed Mud Run  
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 Verlin E. Childers  
ADDRESS 174 Edison Drive, Huntington, WV 25703  
MINERAL RIGHTS OWNER same  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK  
Jerry Tephacock ADDRESS Rt.1, Box 102-A, Ripley, WV  
PERMIT ISSUED 3/26/84 25271  
DRILLING COMMENCED 10/12/84  
DRILLING COMPLETED 10/16/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8	496.90'	496.90'	236 cf
8 5/8			
7	1883.70	685.90'	59 cf
5 1/2			
4 1/2		3116.45'	151 cf
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_  
GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet  
Depth of completed well 3170' feet Rotary xx / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh none feet; Salt noen feet  
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA  
Producing formation Upper & Lower Huron, Angola Pay zone depth 3056' feet  
Gas: Initial open flow show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 298 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 3 days ~~hours~~  
Static rock pressure 550# psig (surface measurement) after 3 days ~~hours~~ shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth 08/25/2023 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)

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

Dowell - 1 stage Foam Frac - 10/21/84

2433/3056 - Upper Huron - 60,000# sand, 515 bbls water and 920,000 scf nitrogen

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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
Sand & Shale			0	1738	
Berea			1738	1766	
Top of Devonian			1766		
Upper Huron			2592	2608	
Lower Huron			2648	2918	
Angola Shale			2918	3061	
				3170'	T.D. gas show

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey 08/25/2023

Date: Joseph C. Pettey, Vice President of Production

11/2/84

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

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

**RECEIVED**  
OCT 22 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

**INSPECTOR'S WELL REPORT**

Permit No. 053 0345

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Union Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Childers #1</u>	16			Kind of Packer _____
Well No. _____	13			
District _____ County <u>Mason</u>	10			Size of _____
Drilling commenced <u>10 12 84</u>	8 1/4			Depth set _____
Drilling completed <u>10 16 84</u> Total depth <u>3170</u>	6 5/8			
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.				
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: \_\_\_\_\_

! 10 12 84 spud date  
10 16 84 rd 3170 Laying down drill pipe getting ready to run wire line.

10 16 84

DATE

*James T. Tolled*  
DISTRICT WELL INSPECTOR

08/25/2023





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

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OCT 22 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 053 0345

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>union drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm _____	16			Size of _____
Well No. _____	13			
District _____ County <u>Mason</u>	10			Depth set _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			
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			

Drillers' Names \_\_\_\_\_

Remarks:

Getting ready to frac setting up rig on location.

10 19 84  
DATE

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



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MAY 21 1985

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



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

**FINAL INSPECTION REPORT**  
**INSPECTORS COMPLIANCE REPORT**  
November 30, 1984

COMPANY Union Drilling, Inc.

PERMIT NO 053-0345

P. O. Drawer 40

FARM & WELL NO Verlin Childers 1-20

Buckhannon, West Virginia 26201

DIST. & COUNTY Clendenin/Mason

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

SIGNED Jerry R. Teshaloda

DATE 5 15 85

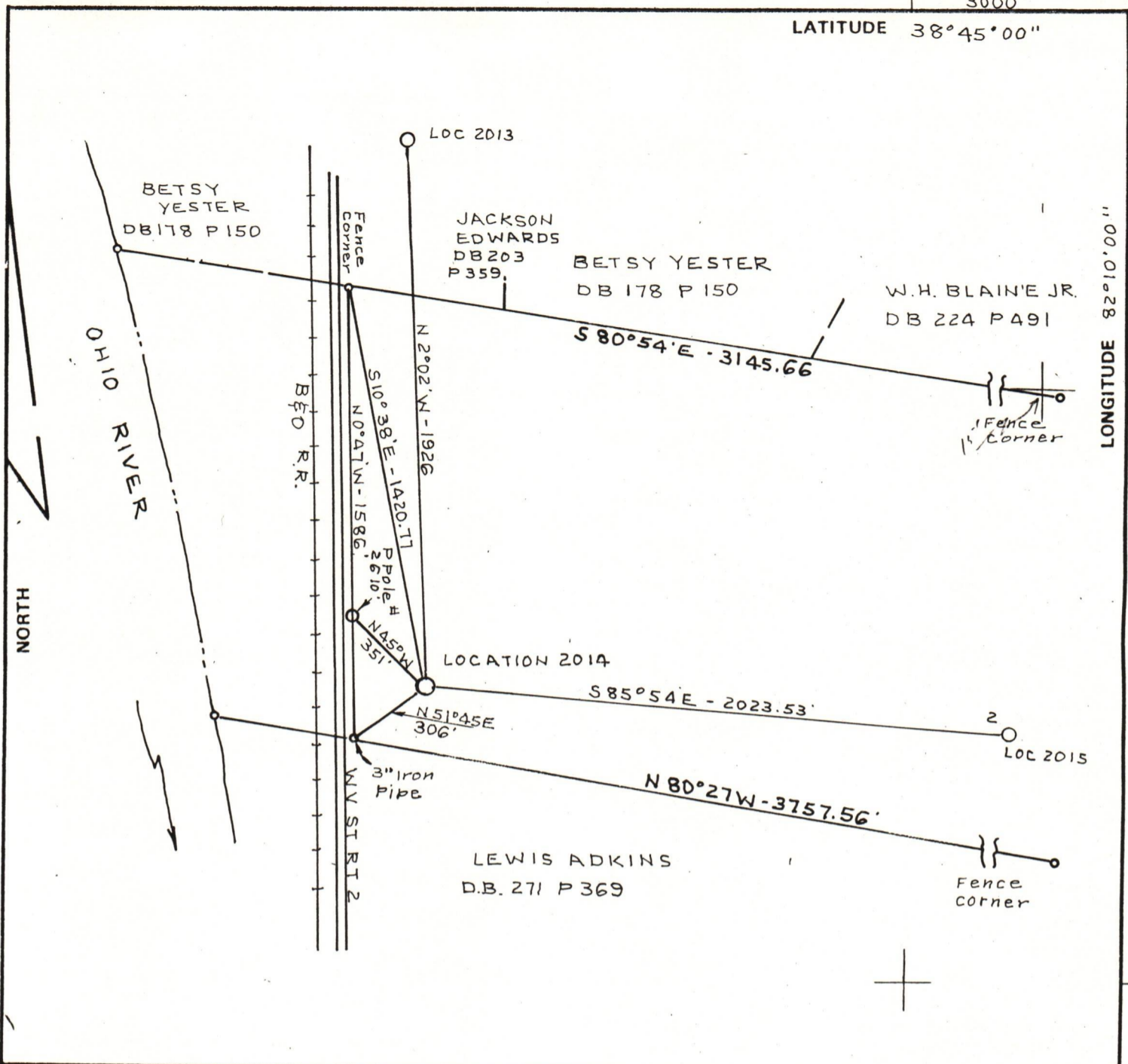
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...

Administrator-Oil & Gas Division

May 24, 1985

DATE



FILE NO. BK 82 P 4  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200'  
 PROVEN SOURCE OF ELEVATION USGS BM S-111 E1567 1550'± North of loc.

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) C. S. Valley Jr.  
 R.P.E. \_\_\_\_\_ L.S. 92

PLACE SEAL HERE

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



DATE FEB 10, 1984  
 OPERATOR'S WELL NO. 2014 - 1  
 API WELL NO. 47 - 053 - 0345  
 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 562.10 WATER SHED MUD RUN  
 DISTRICT CLENDENIN COUNTY MASON  
 QUADRANGLE APPLE GROVE 7.5'  
 SURFACE OWNER VERLIE E. CHILDERS ACREAGE 178  
 OIL & GAS ROYALTY OWNER VERLIE E. CHILDERS LEASE ACREAGE 178  
 LEASE NO. C-2-606

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 3500'  
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT  
 ADDRESS P.O. DRAWER 40 BUCKHANNON WV 26201 ADDRESS P.O. DRAWER 40 BUCKHANNON WV 26201

MASON 375