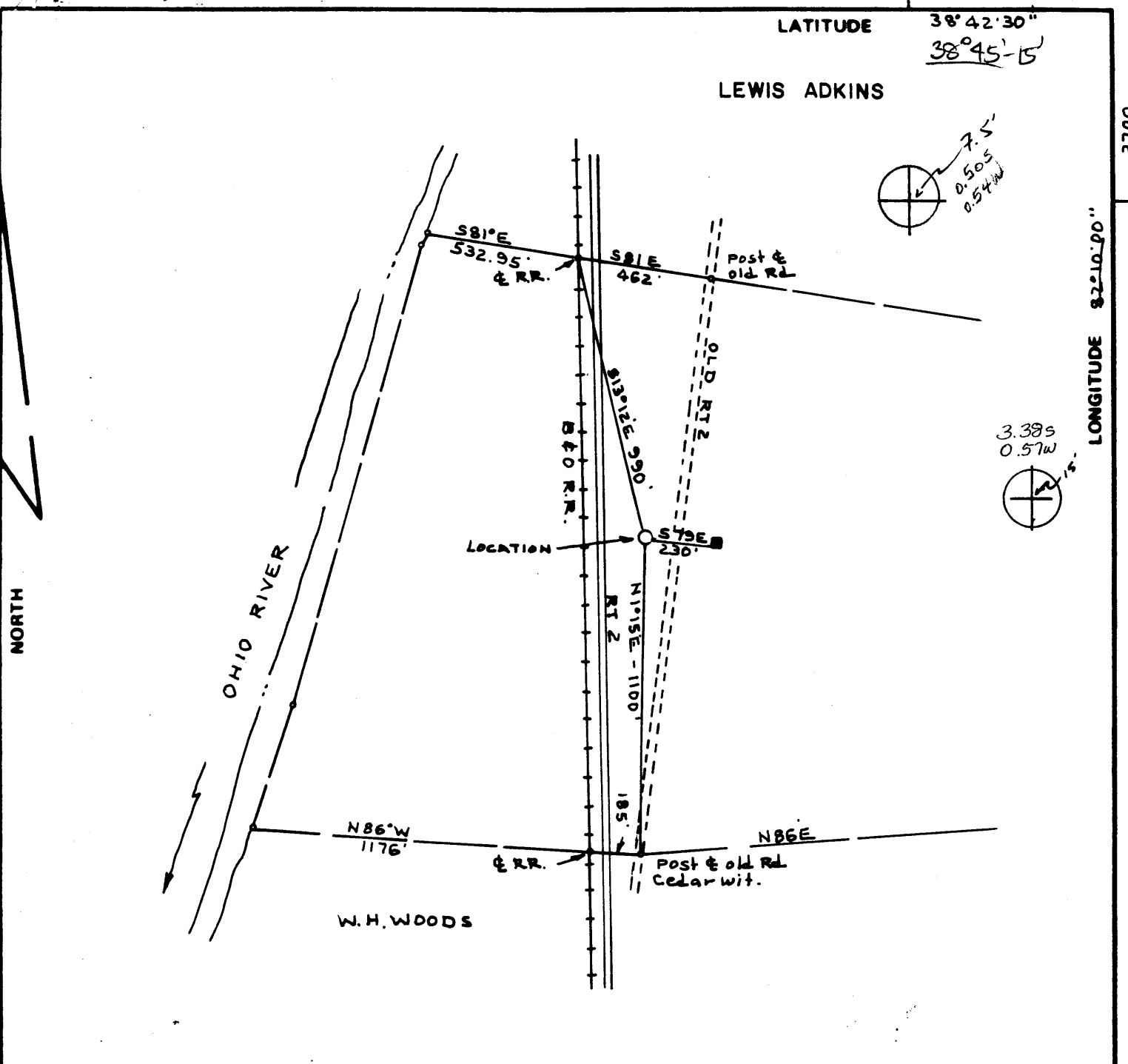


LATITUDE 38°42'30"  
38°45'-5"

LEWIS ADKINS

LONGITUDE 82°10'00"

2700



FILE NO. BK 79 P 90  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION USGS BM E-118  
EL 558.00'

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-B  
 (8-78)



DATE OCT 31, 1983  
 OPERATOR'S WELL NO. 1-1959  
 API WELL NO. \_\_\_\_\_  
47-053-0316  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DEC 05 1983

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 558.00 WATER SHED MUD RUN  
 DISTRICT GLENDEMIN COUNTY MASON  
 QUADRANGLE APPLE GROVE 7.5 Glenwood 15' NW  
 SURFACE OWNER DALE NIBERT ACREAGE 300  
 OIL & GAS ROYALTY OWNER DALE NIBERT LEASE ACREAGE 300  
 LEASE NO. C-2-601

PROPOSED WORK: DRILL X 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 DEVONIAN SHALE ESTIMATED DEPTH 3500'  
 WELL OPERATOR UNION DRILLING INC DESIGNATED AGENT JOSEPH VANZANT  
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
BUCKHANNON WVA 26201 BUCKHANNON WVA 26201



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IV-35 (Rev 8-81)

MAR 29 1984

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date March 27, 1984 Operator's Well No. 1A - 1959 Farm Dale Nibert #1A API No. 47 - 053 - 0316

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 X /)

LOCATION: Elevation: 558' 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 04, Buckhannon, WV 26201 SURFACE OWNER Dale Nibert ADDRESS Apple Grove 25502 MINERAL RIGHTS OWNER Thelma & Paul Childers ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK

Jerry Tephacock ADDRESS Rt#1 Box 101-A, Ripley, WV 25271 PERMIT ISSUED 11/28/83 DRILLING COMMENCED 3/9/84 DRILLING COMPLETED 3/17/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON 03/17/84 for Partial Plugging.

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used with plugging details.

GEOLOGICAL TARGET FORMATION Lower Huron Depth 3000' feet Depth of completed well 4882' feet Rotary X / Cable Tools Water strata depth: Fresh 40' 897' feet; Salt 4000' feet Coal seam depths: none 1052' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Lower Huron Pay zone depth 2925' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 327 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 6 days Static rock pressure not taken psig (surface measurement) after hours shut in (If applicable due to multiple completion--)

Second producing formation Pay zone depth feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure psig (surface measurement) after hours shut in

APR 9 1984

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

Dowell - 1 stage Foam Frac - 3/21/84

2602/2925 - Huron - 60,000# 20/40 sand, 235 Bbls water and 1,008,000 scf nitrogen

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	152	1/2" stream water @40'
Red Rock			152	385	
Sand & Shale			385	1038	Hole Damp @897'
Big Lime			1038	1183	
Injun			1214	1338	
Sand & Shale			1338	2355	
Upper Huron		} Lower Hur.	2590	2612	
Lower Huron			2652	2930	
Angola Shale		✓	2930	3132	1/2" stream salt water @4000"
				4882'	T.D. gas show
<p>from SR log - E. 518' 200'</p> <p>Berea 1762-1786 (24)</p> <p>H 2584-2727 (143)</p> <p>J 2927-3025 (98)</p> <p>A 3025-3133 (108)</p> <p>Ph 3133-3233 (100)</p> <p>3233</p> <p>722</p> <p>722</p> <p>3828-3837 (9)</p> <p>BP 4025</p> <p>4025</p> <p>4025</p>			<p>TP in</p> <p>Jurata</p>		<p>4882</p> <p>17</p> <p>3182</p> <p>4882</p> <p>558</p> <p>4324</p>

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey  
Date: Joseph C. Pettey, Vice President of Production

3/27/84

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 coal, encountered in the drilling of a well."



1) Date: November 9, 19 83  
 2) Operator's Well No. 1-1959  
 3) API Well No. 47 - 053 - 0316  
 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: 558 Watershed: Mud Run  
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph Vanzant  
 Address Post Office Drawer 40 Address Post Office Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Tephabock Name Union Drilling, Inc.  
 Address Route 1, Box 101-A Address Post Office Drawer 40  
Ripley, WV 25271 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, 3500 feet  
 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.  
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes \_\_\_\_\_ / No X

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 OIL & GAS DIVISION

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	DEPT. OF MINES
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	11-3/4		32		X	30'	30'	Kinds
Fresh water						100'	100'	Cement to surface by rule 15.1a
Coal								
Intermediate	8-5/8		23		X	1000'	1000'	Sizes
Production	4-1/2	J-55	10.5	X		3500'	3500'	Depths set as req. by rule 15.1a
Tubing								
Liners								Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-053-0316 Date November 28, 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 November 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>✓</u>	Plat:	Casing	Fee
BLANKET BOND	<u>LA</u>	<u>MH</u>	<u>MH</u>	<u>10574</u>

Administrator, Office of Oil and Gas

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