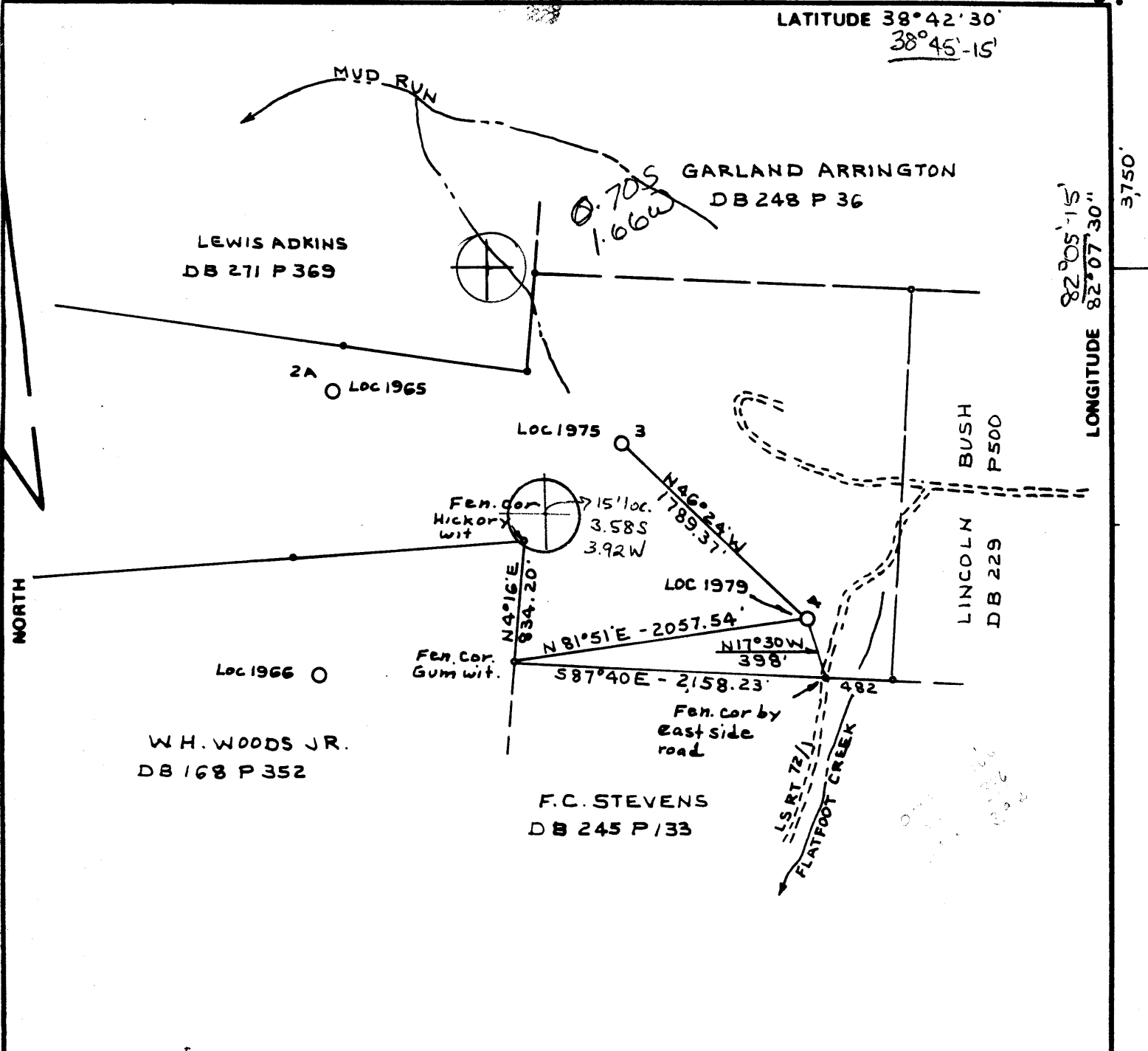


LATITUDE 38°42'30"
38°45'-15"

LONGITUDE 82°05'-15"
82°07'30"



FILE NO. BK 81 P 23
 DRAWING NO. _____
 SCALE 1" = 1000'
 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. _____ U.L.S. 92

PLACE SEAL HERE

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



DATE NOV 25, 1983
 OPERATOR'S WELL NO. 1979 (4)
 API WELL NO. _____
47 - 053 - 0320
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 682.37 WATERSHED FLATFOOT CREEK OF OHIO RIVER
 DISTRICT CLENDENIN COUNTY MASON
 QUADRANGLE APPLE GROVE 7.5' Glenwood 15' NC
 SURFACE OWNER DALE NIBERT ACREAGE 360
 OIL & GAS ROYALTY OWNER DALE NIBERT LEASE ACREAGE 360
 LEASE NO. C-2-601
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X 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 3000
 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

JAN 3 1984



IV-35
(Rev 8-81)

Date February 16, 1984
Operator's
Well No. 4A - 1979
Farm Dale Nibert #4A
API No. 47 - 053 - 0320

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
MAR 1 - 1984

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

OIL & GAS DIVISION

DEPT. OF MINES

LOCATION: Elevation: 682' 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 Dale Niebert
ADDRESS Apple Grove, WV 25502
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Jerry Tephacock ADDRESS Rt#1 Box 101-A, Ripley, WV 25271
PERMIT ISSUED 12/29/83
DRILLING COMMENCED 2/7/84
DRILLING COMPLETED 2/12/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	31.60'		
9 5/8	826.15'		336 cf
8 5/8			
7	2031.55'	722.80	59 cf
5 1/2			
4 1/2	3219'		147 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 Lower Huron Depth 3000' feet
Depth of completed well 3346' feet Rotary x / Cable Tools
Water strata depth: Fresh 78' 1212 feet; Salt feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Lower Huron Pay zone depth 3108' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 60 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 5 day hours
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

MAR 5 1984
(Continue on reverse side)

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

Nowsco - 1 stage foam frac - 2/20/84

2787/3108 - Lower Huron - 60,000# 20/40 sand, 294 Bbls water and 972,000 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	1257	1/4" stream water @78' & 1212'
Big Lime			1259	1436	
Injun			1436	1690	
Berea			1919	1941	
Lower Huron			2832	3117	
Angola			3117	3198	
				3418	T.D. Gas show
					3418 1941 <u>1477</u>

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Date:

Vice President of Production

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."



1) Date: December 8, 19 83
 2) Operator's Well No. 1979 (4)
 3) API Well No. 47 - 053 - 0320
 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: 682.37' / Watershed: Flatfoot Creek of Ohio River
 District: Clendenin / County: Mason / Quadrangle: 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 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 LOWER HURON
- 12) Estimated depth of completed well, 3000 feet
 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No X

RECEIVED
 DEC 12 1983
 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		
Conductor	11-3/4		32		X	30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23		X	1000' <u>885'</u>	1000' <u>885'</u>	210 sacks	<u>C.T.S. - NEAT</u>
Production	4-1/2	J	10.5	X		3000'	3000'	640 sacks	Depths set
Tubing									<u>or as req. by rule 15.01</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-053-0320

December 29, 19 83
 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 December 29, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>LS</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>592</u>
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Margaret J. Hase
 Administrator, Office of Oil and Gas

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