

LATITUDE 38°42'30"

38°45'-15"

Plot Card CSD

0.455
2.31W



2400

LEWIS ADKINS
DB 271 P 369

GARLAND
ARRINGTON
DB 248
P 36

48" Red
oak in
Fen. Cor

N4°23'E
698.47'

Fen. Post
Maple

S81°40'E - 2899.37' 20" Red oak
in fence

S11°15'W
326'

S81°25'E
1,263.30'

N85°02'E - 2588.85'

LOC. 1965

N80°06'W - 2042.54'

LOC. 1975

15' loc.
3.33S
4.57W

N51°55'W
1694.05'

Fence cor.
Hickory wit.

Fence cor.
Gum wit.

F.C. STEVENS
DB. 245
P 133

W.H. WOODS JR
DB 168 P 352

NORTH
OHIO RIVER
B&O RR.
OLD STATE
STATE

LONGITUDE 82°07'30"

FILE NO. BK 81 P 12
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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) C. J. Volley Jr.
R.P.E. C.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. 1965 (2A)
API WELL NO. _____
47 - 053 - 0330
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 709.40 WATERSHED MUD RUN OF OHIO RIVER
DISTRICT GLENDENIN 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

6-(6 unnamed (6))

IV-35
(Rev 8-81)



RECEIVED
MAR 9 - 1984

State of West Virginia
Department of Mines
Oil and Gas Division
DEPT. OF MINES

Date March 8, 1984
Operator's
Well No. 2A - 1965
Farm Dale Nibert #2A
API No. 47 - 053 - 0330

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: 709' Watershed Mud Run of Ohio River
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 Nibert
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 12/29/84
DRILLING COMMENCED 2/19/84
DRILLING COMPLETED 2/26/84

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"	33'		
9 5/8	858.55'		295 cf
8 5/8			
7	2033.95'	713.70'	89 cf
5 1/2			
4 1/2	3219.70'		152 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Lower Huron Depth 3000' feet
Depth of completed well 3407' feet Rotary x / Cable Tools
Water strata depth: Fresh 1222' feet; Salt feet
Coal seam depths: 836/841 1420' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Huron Pay zone depth 3088' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 120 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 6 days ~~hours~~

Static rock pressure 660# psig (surface measurement) after 6 days ~~hours~~ shut in
(If applicable due to multiple completion--)

APR 2 1984

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

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

Dowell - 1 stage Foam Frac - 2/29/84

2770/3088 - Huron - 40,000# 20/40 sand, 215 Bbls water and 890,000 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	836	2 1/2" water @1222'
Coal			836	841	3 1/2" water @1420'
Sand & Shale			841	1222	
Big Lime			1222	1356	
Injun			1373	1671	
Berea			1907	1932	
Upper Huron			2781	2819	
Lower Huron			2820	3096	
Angola			3100	3350	
Rhinestreet			3350	3360	
				3407	T.D. gas show

Handwritten notes:
 CR log - fine
 Berea 1907-1940 (47)
 J 3096-3198 (102)
 A 3198-3310 (112)
 R-3310

(Attach separate sheets as necessary)

Union Drilling, Inc
 Well Operator
 By: Joseph C. Pettey
 Date: Joseph C. Pettey, Vice President of Production
 3/8/84

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



1) Date: December 8, 19 83
 2) Operator's Well No. 1965 (2A)
 3) API Well No. 47 - 053 - 0330
 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: 709.40 / Watershed: Mud Run 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

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 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		
Conductor	11-3/4		32		X	30'	30'	Kinds
Fresh water								
Coal								Sizes
Intermediate	8-5/8		23		X	1000 909'	1000 909'	210 sacks <u>CTS NEAT</u>
Production	4-1/2	J	10 1/2	X		3000'	3000'	640 sacks
Tubing								<u>OR AS REQ BY RULE 15.0</u>
Liners								Perforations: Top _____ Bottom _____

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-053-0330 Date December 29, 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 December 29, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>MARKET BOND</u>	Agent: <u>ES</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>011 592</u>
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Margaret J. Hesse
 Administrator, Office of Oil and Gas

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