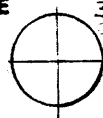


Plot Card CSD

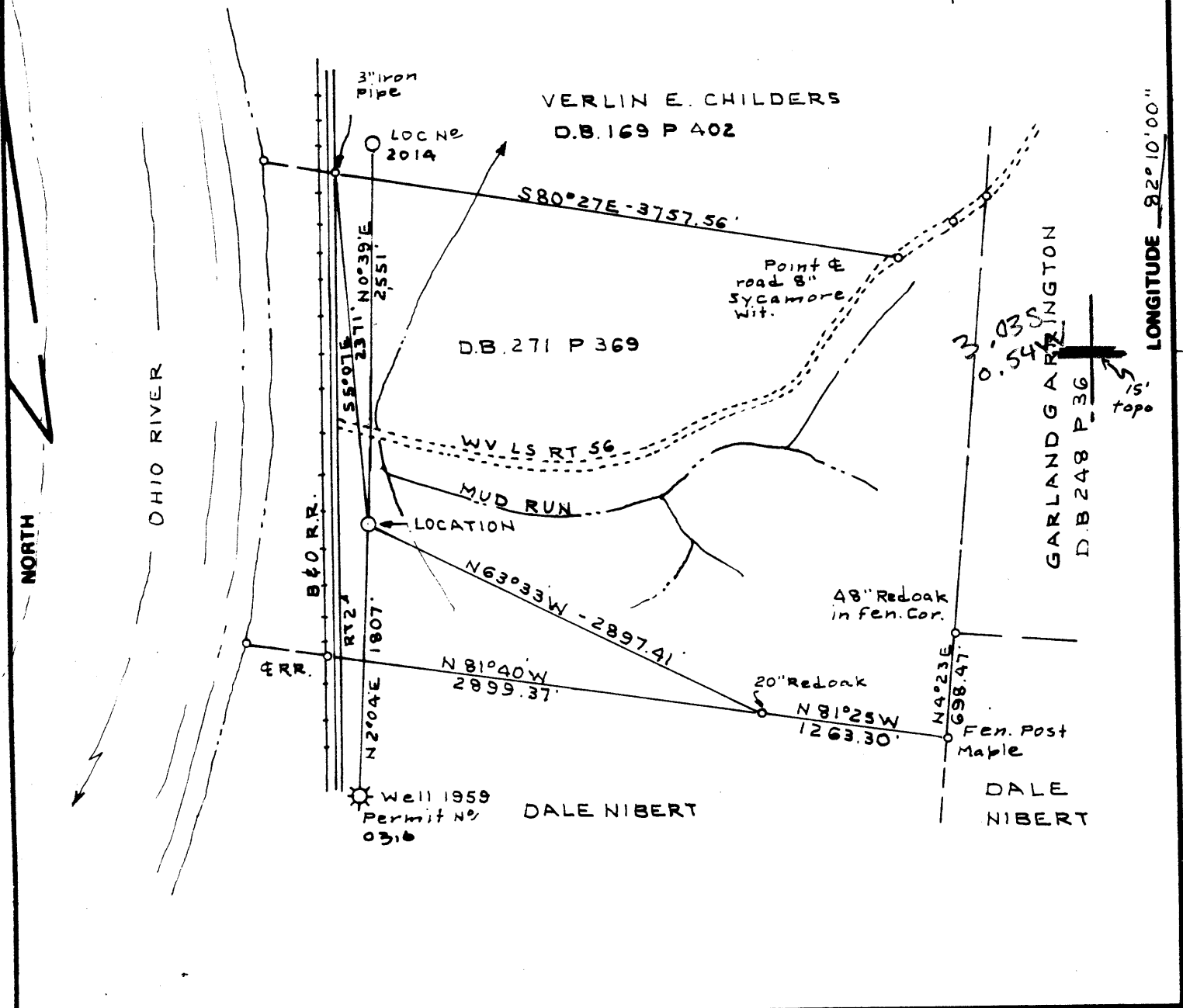
LATITUDE

2850
38°42'30"
38°45'

0.155
0.54W



LONGITUDE 82°10'00"



FILE NO. BK 84 P 23
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION USGS BM 5118
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. J. Talley Jr.
 R.P.E. _____ L.L.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE MARCH 29, 1984
 OPERATOR'S WELL NO. 2035 -1
 API WELL NO. _____
47 - 053 - 0346
 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 555.95 WATERSHED MUD RUN OF OHIO RIVER
 DISTRICT CLENDENIN COUNTY MASON
 QUADRANGLE APPLE GROVE 216 Glenwood 18' NW 1
 SURFACE OWNER LEWIS D. ADKINS ACREAGE 343.60
 OIL & GAS ROYALTY OWNER STEVENS REALTY LEASE ACREAGE 545
 LEASE NO. C-2-980
 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 3500'
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201

APR 9 1984

RECEIVED

MAY 9 - 1984



OIL & GAS DIVISION

IV-35 DEPT. OF MINES
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 8, 1984
Operator's
Well No. 1 - 2035
Farm Stevens Realty #1
API No. 47 - 053 - 0346

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: 555' Watershed Mud Run of Ohio River
District: Clendenin County Mason Quadrangle Apple Grove

COMPANY UNION DRILLING, INC.
ADDRESS P.O. Drawer, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Vanzant, Jr.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER Lewis D. Adkins
ADDRESS Box 156, Branchland, WV 25506
MINERAL RIGHTS OWNER Stevens Realty, Inc.
ADDRESS 1401 Sixth Avenue, Huntington, WV 25701
OIL AND GAS INSPECTOR FOR THIS WORK
Jerry Tephabock ADDRESS Rt. 1, Box 101-A, Ripley, WV 25271
PERMIT ISSUED 4/4/84
DRILLING COMMENCED 4/10/84
DRILLING COMPLETED 4/16/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	28.00'		
9 5/8	713.45'		
8 5/8			
7	1935.20'	726.50'	58 cf
5 1/2			
4 1/2	3068.00'		170 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet
Depth of completed well 3222' feet Rotary x / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt 860', 1035' feet
Coal seam depths: 412/418 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Huron Pay zone depth 2906' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 189 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 6 days ~~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

(Continue on reverse side)

JUN 4 1984

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

Nowasco - 1 stage Foam Frac - 5/1/84

2592/2906 - Huron - 60,000# 20/40 sand, 159 Bbls water and 808,380 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	412	
Coal			412	418	
Sand & Shale			418	1150	3/4" stream salt water @860'
Big Lime			1150	1180	4" stream salt water @1035'
Sand & Shale			1180	1235	
Injun			1235	1335	
Shale			1335	1805	
Berea			1805	1825	
Upper Huron			2592	2606	
Lower Huron			2644	2915	
				3222'	T.D. gas show

from G.P. log at 546' KB

(Attach separate sheets as necessary)

UNION DRILLING, INC.
Well Operator

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

5/8/84

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 coal, encountered in the drilling of a well."



1) Date: April 2, 19 84
 2) Operator's Well No. 2035 - 1
 3) API Well No. 47 - 053 - 0346
 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: 555.95 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 / 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 strata 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	11-3/4		32	X		30'	30'		DEPT. OF MINES OIL & GAS DIVISION Kind: _____ Sizes: _____ Depths set: <u>by rule 15.01</u> Perforations: _____ Top _____ Bottom _____
Fresh water									
Coal									
Intermediate	8-5/8		23	X		7561000	7561000	to surface	
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	
Tubing									
Liners									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-053-0346 Date April 4, 19 84

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 April 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <input checked="" type="checkbox"/> <u>MU</u>	Plat: <input checked="" type="checkbox"/> <u>MU</u>	Casing: <u>MU</u>	Fee: <u>016</u> <u>036</u>
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Margaret J. Nasse
 Administrator, Office of Oil and Gas

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