



LATITUDE 39° 10' 00"

DOROTHY SHREVE
146 AC TR.
DB 44 P 370

LONGITUDE 79° 12' 30"

CHARLES SHREVE
110 AC.

RUTH B. HALTERMAN

FILE NO. BK 81 P 90
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200'
PROVEN SOURCE OF ELEVATION Fore Triangulation Sta. S 7° 11' W - 949.27 From LOC. EL. 2648'

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. Volley Jr.
R.P.E. _____ L.L.S. 92

PLACE SEAL HERE

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



DATE FEB 3, 1984
OPERATOR'S WELL NO. 2042
API WELL NO. NR# 21157-7F1
47 - 023 - 0008
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 X SHALLOW ___
LOCATION: ELEVATION 2611.21 WATER SHED NORTH FORK OF LUNICE CREEK
DISTRICT UNION 3 COUNTY GRANT
QUADRANGLE GREENLAND GAP 7.5' GREENLAND GAP 15' WC
SURFACE OWNER DOROTHY E. SHREVE ACREAGE 540.5
OIL & GAS ROYALTY OWNER DOROTHY E. SHREVE LEASE ACREAGE 540.5
LEASE NO. 178966
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 ORISKANY 893 ESTIMATED DEPTH 9500'
WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
ADDRESS P. O. Drawer 40 ADDRESS P. O. Drawer 40
Buckhannon, Wv. 26201 Buckhannon, Wv. 26201

MAR 5 1984
FEB 27 1984

RECEIVED
OCT 3 1 1984
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date August 20, 1984
Operator's
Well No. 2042
Farm Dorothy Shreve #1
API No. 47-023-0001

WELL OPERATOR'S REPORT
OF

(CONFIDENTIAL WELL)

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 2611.21 Watershed North Fork of Linice Creek
 District: Union County Grant Quadrangle Greenland Gap

COMPANY Union Drilling, Inc.

ADDRESS P. O. Drawer 40, Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Vantant, Jr.

ADDRESS P. O. Drawer 40, Buckhannon, WV 26201

SURFACE OWNER Dorothy E. Shreve

ADDRESS Rt. #3, Box 240, Maysville, WV 26833

MINERAL RIGHTS OWNER Dorothy E. Shreve

ADDRESS Rt. #3, Box 240, Maysville, WV 26833

OIL AND GAS INSPECTOR FOR THIS WORK

Philip Tracy ADDRESS Forest Festival Trl. #74
 LINCOLN, WV 26231

PERMIT ISSUED Feb. 23, 1984

DRILLING COMPLETED 03/19/84

DRILLING COMPLETED 05/20/84

IF APPLICABLE: PLUGGING OF DRY HOLE OR
 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 Cord.			
13-10"	38'	38'	
9 5/8	3602.45'	3602.45'	1950 cf.
8 5/8			
7			
5 1/2		8399.85'	670 cf.
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TABLET FORMATION Oriskany. Depth 8392 feet

Depth of completed well 8392 feet Rotary / Cable Tools

Water strata depth: Fresh 110 feet; Salt feet

Coal seam depths: None Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 8125/8166 feet

Gas: Initial open flow 2800-cnr-121194-K12 Mcf/d Oil: Initial open flow None Mcf/d

Final open flow 1,205 Mcf/d Final open flow Mcf/d

Time of open flow between initial and final tests 7 hours

Static rock pressure 3200 psig (surface measurement) after 10 hours shut

(If applicable due to multiple completion--)

Second producing formation Pay zone depth

Gas: Initial open flow Mcf/d Oil: Initial open flow Mcf/d

Final open flow Mcf/d Oil: Final open flow Mcf/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut

Well perforated only at 8125/26, 8141/44, 8152/54, 8159/61, 8163/66 for a total of 30 holes.

Grants

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all and salt water, coal, oil and gas
Sands and Gravel			0	7763	Wet at 110'
Purcell Limestone			7763	7830	
Lower Marcellus			7830	7881	
Tioga Bentonite			7881	7890	
Needmore Shale			7890	8031	
Oriskany Sandstone			8031	8226	
Halderberg Limestone			8226	8392	Total Depth

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: *Joseph C. Lettice*
Joseph C. Lettice, Vice President of Production
Date: 08/20/84

Note: Regulation 8.02(f) 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."



1) Date: February 15, 19 84
 2) Operator's Well No. 2042
 3) API Well No. 47 - 023 - 0008
 State County Permit

TO BE HELD CONFIDENTIAL

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: 2611.21' / Watershed: North Fork of Lunice Creek
 District: Union / County: XX Grant / Quadrangle: Greenland Gap
- 6) WELL OPERATOR Union Drilling, Inc. / 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 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 Phillip Tracy / Name Union Drilling, Inc.
 Address Forest Festival Terrace, Apt. #24 / Address Post Office Drawer 40
Elkins, WV 26241 / 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, Oriskany
- 12) Estimated depth of completed well, 9500 feet
 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No X

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	13-3/8		54	X		300'	300'	<u>BTS</u>	Kinds
Fresh water									
Coal									Sizes
Intermediate	9-5/8		42 1/2	X		3500'	3500'	<u>BTS</u>	
Production	5-1/2 J		20	X		9500'	9500'	<u>600 sks</u>	Depths set <u>OC B2 P20</u> <u>by Galt 12-21</u>
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-023-0008 / Date February 23, 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 February 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>AB</u>	Agent: <u>CK</u>	Plat: <u>HA</u>	Casing: <u>HA</u>	Fee: <u>014519</u>
-----------------	------------------	-----------------	-------------------	--------------------

[Signature]
 Administrator, Office of Oil and Gas

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