

CODE

WARD

PLAT

8200'

LATITUDE 39° 10' 00"

LONGITUDE 19° 12' 30" 79° 10'

G 725

PRESENT MAGNETIC NORTH

ALLEGHENY WOOD PRODUCTS DB 135 P 17

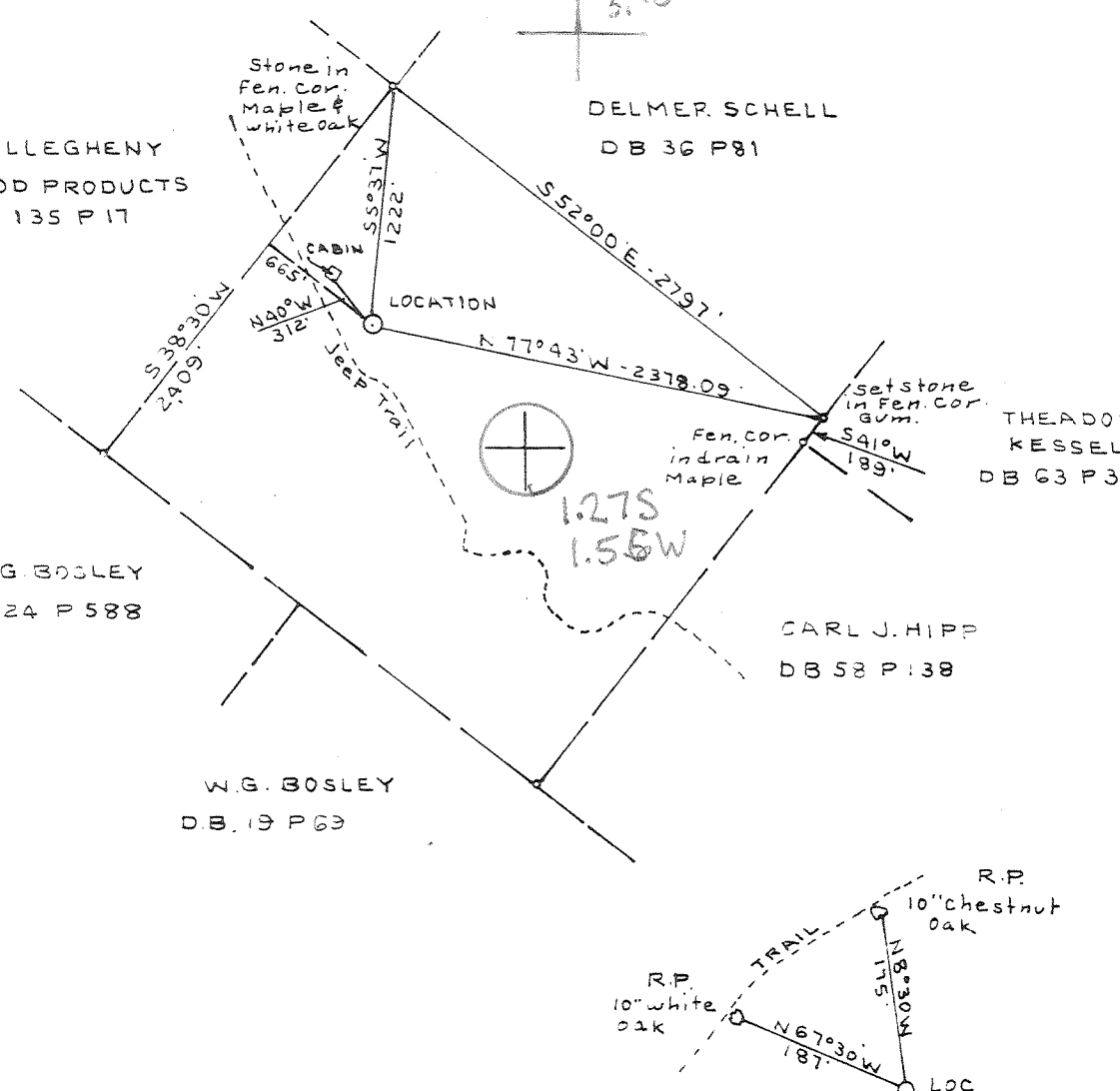
DELMER SCHELL DB 36 P 81

THEADORE KESSEL DB 63 P 317

W.G. BOSLEY DB 24 P 588

CARL J. HIPP DB 58 P 138

W.G. BOSLEY DB 19 P 63



FILE NO. BK 87 P 37

DRAWING NO. \_\_\_\_\_

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1" = 200

PROVEN SOURCE OF ELEVATION USGS Road Forks 11,100' S.E. of Location El 1573

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.L.S. 92

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE AUG 27, 1984  
 OPERATOR'S WELL NO. 2131  
 API WELL NO. (CNR # 21351-PL)  
47-023-0010  
 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 2640.59 WATER SHED SALTBLOCK RUN  
 DISTRICT UNION COUNTY GRANT  
 QUADRANGLE GREENLAND GAP 390 Greenland Gap 082 WC4

SURFACE OWNER CARL J. HIPP ACREAGE 330  
 OIL & GAS ROYALTY OWNER CARL J. HIPP LEASE ACREAGE 330  
 LEASE NO. 178967

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 993 ESTIMATED DEPTH 9500

WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT

ADDRESS P.O. DRAWER 40 BUCKHANNON WV 26201 ADDRESS P.O. DRAWER 40 BUCKHANNON WV 26201

OCT 15 1984

IV-35  
(Rev 8-81)



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date July, 26, 1985

Operator's

Well No. 1 - 2131

Farm Carl Hipp Unit #1

API No. 47 - 023 - 0010

TO BE HELD CONFIDENTIAL

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 x / Shallow /)

LOCATION: Elevation: 2640' Watershed Saltblock Run  
District: Union County Grant Quadrangle Greenland Cap

COMPANY UNION DRILLING, INC.

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

DESIGNATED AGENT Joseph C. Pettey

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

SURFACE OWNER see attached sheet

ADDRESS

MINERAL RIGHTS OWNER she attached sheet

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Russell Beall ADDRESS P.O.Box 160, Philippi, WV 26416

PERMIT ISSUED 10/4/84

DRILLING COMMENCED 12/28/84

DRILLING COMPLETED 2/27/85

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 Cand.			
13-10"	39.40'	39.40'	115 cf
9 5/8	3983.50'	3983.50'	1725 cf
8 5/8			
7			
5 1/2		8702.95'	685 cf
4 1/2			
3			
2		8297.13'	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 9500' feet

Depth of completed well 8752' feet Rotary xxx / Cable Tools

Water strata depth: Fresh none reported feet; Salt feet

Coal seam depths: no coal Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 8464' feet

Gas: Initial open flow 189 after 33 hrs. Mcf/d Oil: Initial open flow Bbl/d

Final open flow 984 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 3250# psig (surface measurement) after 24 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

3129194

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

Halliburton - 1 stage Foam Frac - 5/24/85

8367/74 - Oriskany - 245,000# sand, 1000 gals 15% FE acid and used  
8458/64 - Oriskany 31 tons of CO2 throughout treatment

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Purcell Limestone			7920	7989	
Lower Marcellus			7990	8060	
Needmore Shale			8060	8214	
Oriskany Sandstone			8214	8566	
Helderberg Limestone			8566	8752'	189 mcf after 33 hrs.

*Production  
1992 - 85,372 mcf*

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettev

Date: Joseph C. Pettev, Vice President of Production

7/26/85

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 all encountered in the drilling of a well."

**RECEIVED**  
APPLICANT COPY

SEP 27 1984



1) Date: September 26, 1984  
 2) Operator's Well No. 2131  
 3) API Well No. 47 - 023 - 0010  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**\*\*TO BE HELD CONFIDENTIAL\*\***

**DEPT. OF MINES**

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas XX /  
 B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep XX / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: 2640.59 / Watershed: Saltblock Run / FSB26E2  
 District: Union / County: Grant / Quadrangle: Greenland Gap
- 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 Russell Beall  
 Address Post Office Box 160  
Philippi, WV 26416
- 9) DRILLING CONTRACTOR:  
 Name Union Drilling, Inc.  
 Address Post Office Drawer 40  
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX /  
 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 strata depths: Fresh, ? feet; salt, ? feet.  
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes \_\_\_\_\_ / No XX

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'			Kinds
Fresh water										
Coal										Sizes
Intermediate	9-5/8		42 1/2	X		3500'	3500'	to surface		
Production	5-1/2	J	20	X		9500'	9500'	as required		Depths set
Tubing								<i>by rule 15.01</i>		
Liners										Perforations: Top Bottom

**OFFICE USE ONLY  
 DRILLING PERMIT**

Permit number 47-023-0010

October 4, 19 84  
 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 October 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>162</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>022</u> <u>654</u>

*Margaret J. Hesse*  
 Administrator, Office of Oil and Gas

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

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.