



FILE NO. UDI 3-40
 DRAWING NO. 84-22
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOP of Knob 1100' S.E. of Loc. El. 2872

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) Thomas F. Weaver, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 9, 1984
 OPERATOR'S WELL NO. 2082
 API WELL NO. CNR# 21332-P2
47-023-0009

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2735 WATER SHED MOYER RUN
 DISTRICT MILROY COUNTY GRANT
 QUADRANGLE HOPEVILLE 402 onego 15' NE3
 SURFACE OWNER OATHER HEAVNER ACREAGE 264
 OIL & GAS ROYALTY OWNER OATHER HEAVNER LEASE ACREAGE 313
 LEASE NO. 561147

STATE COUNTY PERMIT
 DEP states that 023-16 was never drilled - prod reported under 023-9
AUG 20 1984

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE 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 9000'
 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

IV-35
(Rev 8-81)

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DEC 19 1986



State of West Virginia

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Date December 18, 1986
Operator's
Well No. 1 - 2082
Farm Oather Heavner #1
API No. 47 - 023 - 0005

CONFIDENTIAL

0009

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 XXX Shallow ___ /)

LOCATION: Elevation: _____ Watershed _____
District: _____ County _____ Quadrangle _____

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 Oather Heavner, et.ux.
ADDRESS Route 1, Box 243, Maysville, WV 26833
MINERAL RIGHTS OWNER same as surface
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____
Phil Tracy ADDRESS P.O. Box 2536, Elkins, WV 26241
PERMIT ISSUED 8/13/86
DRILLING COMMENCED 8/17/86
DRILLING COMPLETED 10/14/86

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 Cord.	17.00'	17.00'	
13-10"	265.40'	265.40'	271 cf
9 5/8	2529.67'	2529.65'	1109 cf
8 5/8			
7			
5 1/2		8575.38'	1179 cf
4 1/2			
3			
2 3/8"		8261.69'	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 9000' feet
Depth of completed well 8632' feet Rotary XXX / Cable Tools _____
Water strata depth: Fresh 117' feet; Salt none feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 8394' feet
Gas: Initial open flow Did not test Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 746 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 2546# psig (surface measurement) after 72 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

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(Continue on reverse side)

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

Halliburton - frac - 11/29/86

8338/42 - Oriskany - 218,500# sand, 5000 gals methanol, 29,800 lbs of Potassium Chloride, and 2401 gals water

8348/52

8390/94

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0	12	1" stream fresh water @117'
Sand			12	53	
Sand & Shale			53	125	
Sand			125	302	
Red Rock			302	386	
Sand & Shale			386	4786	
Harrell Shale			7262	7672	
Tully Horizon			7674	7955	
Upper Marcellus			7956	7970	
Purcell			7970	8048	
Lower Marcellus			8049	8088	
Tioga			8089	8091	
Metabeutonite			8095	8097	
Needmore			8103	8228	
Oriskany			8228	8428	
Helderberg			8429	8632'	- could not test, bad bore hole conditions

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

12/18/86

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."

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TO BE HELD CONFIDENTIAL

1) Date: July 19, 19 84
 2) Operator's Well No. 2082
 3) API Well No. 47 - 023 - 0009
 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 XX /
 B (If "Gas", Production XX / Underground storage / Deep XX / Shallow)
- 5) LOCATION: Elevation: 2,735 Watershed: Moyer Run PSB 28D
 District: Milroy County: Grant Quadrangle: Hopeville
- 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 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, 9,000 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes X

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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	13-3/8		32	X		300'	300'	CTS By rule 15.05	
Fresh water									
Coal									Sizes
Intermediate	9-5/8		23	X		3500'	3500'	to surface as required	by rule 15.05
Production	5-1/2	J	10 1/2	X		9000'	9000'		Depths set
Tubing									by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-023-0009 Date August 14, 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 August 14, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

BLANKET 162	Agent: <u>✓</u> <u>LS</u>	Plat: <u>MW</u>	Casing <u>MW</u>	Fee <u>619-</u> <u>965-</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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

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

File