



△ DENOTES STATUS

FILE NO. UD1-2-63  
 DRAWING NO. 88-19  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION ST. ROADS 900' EAST OF LOCATION  
EL. = 934

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

PLATE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE MAY 28, 19 82  
 OPERATOR'S WELL NO. 1719  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 3117  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1005 WATER SHED RIGHT FORK OF ARNOLDS CREEK  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE OXFORD No Brook 15' NE  
 SURFACE OWNER ANDERSON H. WALTERS, II ACREAGE 261.25  
 OIL & GAS ROYALTY OWNER RUBY FARR MAXWELL, P.C. LEASE ACREAGE 262  
 LEASE NO. 4783 H.N.G. Co.  
 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 ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT UNION DRILLING, INC.  
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40  
BUCKHANNON, W.VA. 26201 BUCKHANNON, W.VA. 26201

JUL 26 1982

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SEP 28 1982

IV-35 (Rev 8-81)

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Date September 20, 1982

Operator's Well No. 3-1719

Farm Ruby Farr Maxwell #3 (1719)

API No. 47 - 017 - 3117

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 X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1005' Watershed Right Fork of Arnolds Creek District: West Union County Doddridge Quadrangle Oxford

COMPANY Union Drilling Inc. ADDRESS P O Drawer 40, Buckhannon WV 26201 DESIGNATED AGENT Union Drilling Inc. ADDRESS P O Drawer 40, Buckhannon WV 26201 SURFACE OWNER Anderson Walters c/o Lt. Col. A. H. Walters ADDRESS 4837 Hawkwood Trail Winston-Salem, NC 29103 MINERAL RIGHTS OWNER see supplement sheet ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey ADDRESS Rt 2, Box 232-D Jane Lew WV 26378 PERMIT ISSUED 6/28/82 DRILLING COMMENCED 8/5/82 DRILLING COMPLETED 8/9/82 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cord, 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Alexander Depth 5127 feet Depth of completed well 5248' feet Rotary X / Cable Tools Water strata depth: Fresh 50' 1005' feet; Salt feet Coal seam depths: 1083', 1124' Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Big Injun Pay zone depth 1901' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 210 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 800# psig (surface measurement) after 7 days shut in (If applicable due to multiple completion--)

1055 Mcf?

OCT 12 1982

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

B. J. Hughes Water Fractured 8/16/82

1827/42, 1899/01 Big Injun 40,000 lbs. sand 505 Bbls. water

2069/09 Gordon 40,000 lbs. sand 470 Bbls. water

2147/51 Gordon 40,000 lbs. sand 470 Bbls. water

4797/00 Benson 40,000 lbs. sand 440 Bbls. water

5088/27 Elk 40,000 lbs. sand 403 Bbls. water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	15'	
Sand			15'	70'	½" stream water @ 50'
Red Rock			70'	90'	
Sand & Shale			90'	1083'	1" stream water @ 1005'
Coal			1083'	1089'	Coal @ 1083'
Sand & Shale			1089'	1124'	
Coal			1124'	1130'	Coal @ 1124'
Sand & Shale			1130'	1700'	
Big Lime			1700'	1807'	
Big Injun			1807'	1889'	
Sand & Shale			1889'	2045'	
Gordon			2045'	2156'	
Sand & Shale			2156'	3696'	
Balltown			3696'	3699'	
Sand & Shale			3699'	4758'	
Benson			4758'	4764'	
Sand & Shale			4764'	5042'	
Elk <i>alex sander</i>			5042'	5090'	
Sand & Shale			5090'	5248' TD	Show
					Elk (436)

(Attach separate sheets as necessary)

Union Drilling Inc.

Well Operator

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

September 20, 1982

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."

SUPPLEMENT TO WELL OPERATOR'S REPORT

Date September 20, 1982  
Operator's \_\_\_\_\_  
Well No. 3-1719  
Farm Ruby Farr Maxwell #3 (1719)  
API NO. 47-017-3117

Third producing formation 2nd Gordon Pay zone depth 2147  
2151'  
Gas: Initial open flow show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 210 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 800# psig(surface measurement) after 7 days ~~XXXX~~ hours shut in

Fourth producing formation Benson Pay zone depth 4797-  
4800'  
Gas: Initial open flow show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 210 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 800# psig(surface measurement) after 7 days ~~XXXX~~ hours shut in

Fifth producing formation Elk Alexander Pay zone depth 5088-  
5127'  
Gas: Initial open flow show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 215 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 800# psig(surface measurement) after 7 days ~~XXXX~~ hours shut in

Sixth producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d 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

Mineral Rights Owners:

Ruby Farr Maxwell  
Route #1  
West Union, WV 26456

Mary Agnes Wallace  
405 Church Street  
West Union, WV 26456

OCT 12 1982

Date: June 24, 19 82

Operator's Well No. 3 - 1719

API Well No. 47 - 017 - 3117

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

State County Permit

Ruby Farr Maxwell #3 (1719)

OIL AND GAS WELL PERMIT

WELL TYPE: Oil \_\_\_\_\_ / Gas x /  
(If "Gas", Production x / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow x /)

LOCATION: Elevation: 1005' Watershed: Right Fork of Arnolds Creek

District: West Union County: Doddridge Quadrangle: Oxford

WELL OPERATOR UNION DRILLING, INC.

DESIGNATED AGENT UNION DRILLING, INC.

Address P. O. Drawer 40  
Buckhannon, WV 26201

Address P. O. Drawer 40  
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Ruby Farr Maxwell  
Route #1, West Union, WV 26456

COAL OPERATOR \_\_\_\_\_

Address and  
Mary Agnes Wallace  
405 Church Street  
West Union, WV 26456

Address \_\_\_\_\_

261.25  
Acreage

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Anderson Walters  
c/o Lt. Col. A. H. Walters  
4837 Hawkwood Trail  
Winston-Salem, NC 29103

Name Ms. Ruby Farr Maxwell  
Rt. #1, West Union, WV 26456

Address 262  
Acreage

Address Mary Agnes Wallace  
405 Church Street, West Union, WV  
26456

Name \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Address Not Determined at this time

Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Mr. Stephen Casey  
Address Route #2, Box 232-D  
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:

Name \_\_\_\_\_  
Address \_\_\_\_\_

**RECEIVED**

JUN 28 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Lease #4783

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ / lease XX other contract \_\_\_\_\_ / dated February 29, 19 04, to the undersigned well operator from G. W. & Agnes Farr to Hope Natural Gas Company and assigned to UDI  
(If said deed, lease, or other contract has been recorded:)

Recorded on Mar. 31, 19 04, in the office of the Clerk of the County Commission of Doddridge County, West Va. West, in Deed Book 21 at page 263. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate x /

Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /

Other physical change in well (specify) \_\_\_\_\_

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

UNION DRILLING, INC.  
Well Operator  
By Joseph C. Pettey  
Its Joseph C. Pettey, Vice President of Production

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.  
Address P. O. Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary x / Cable tools      /

Approximate water strata depths: Fresh, 255 feet; salt, 455 feet.

Approximate coal seam depths:     ? Is coal being mined in the area? Yes      / No x /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft			For drilling	Left in well			
Conductor	11 3/4"			X		320'	320'	C/S		Kinds
Fresh Water										
Coal										Sizes
Intermediate	8 5/8"		23#	X		800'	800'	to surface		
Production	4 1/2"		10 1/2#	X			5400'	400 sks. or as req. by rule 15.01		Depths set
Tubing										
Liners										Perforations:
										Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form Iv-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 3-14-83  
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19     

By     

Its