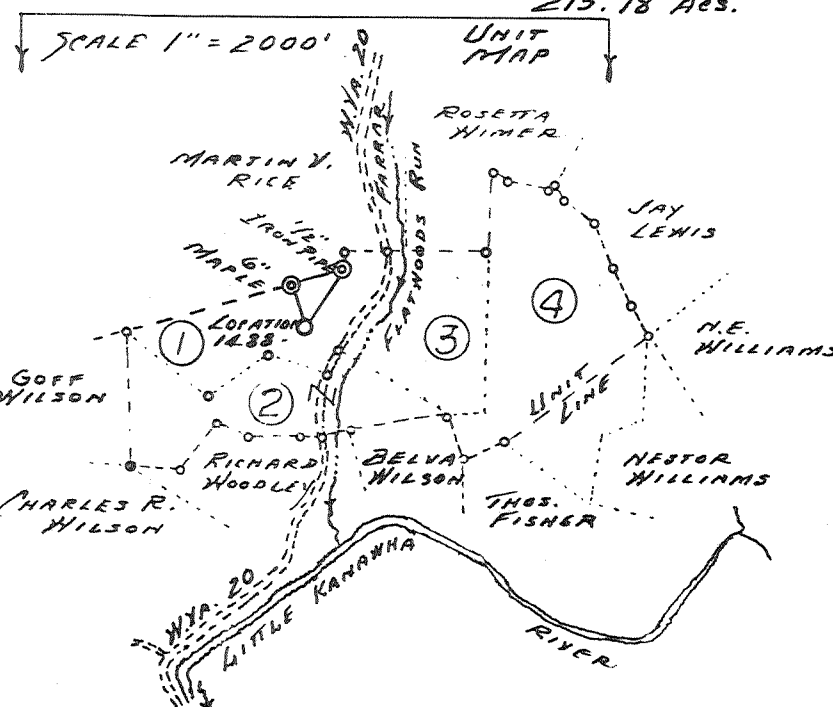


TRACT	OWNER	ACRES
①	R.S. SMALLRIDGE & DALE COLERIDER	40.84
②	WILBERT L. & HELEN JEFFRIES	58.90
③	HUGH FIDLER, HEIRS	36.14
④	P.S. LEWIS, HEIRS WILLIAM OSBORN - AGENT	79.30
		215.18 Acs.



**DEEP WELL**  
 New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure 1 in 500  
 Source of Elevation U.S.C. & G. B.M. # P 270 IN ROCK ON WEST SIDE OF ROUTE 20, 1320'± SOUTH OF LOCATION, EL. = 1560  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." Thomas F. Weaver, Jr.

Company UNION DRILLING, INC.  
 Address DRAWER 40, BUCKHANNON W.V.A. ROCK CAYE SEE OWNERSHIP ABOVE  
 Farm UNIT  
 Tract UNIT Acres 215.18 Lease No. 342  
 Well (Farm) No 2 Serial No. 1488-UC  
 Elevation (Spirit Level) 1655  
 Quadrangle CRAWFORD 15' ROCK CAYE T.S. MIN. SC  
 County UPSHUR District BANKS  
 Engineer THOMAS F. WEAVER, JR.  
 Engineer's Registration No. L. L. S. 410  
 File No. LIDI-1-62 Drawing No. 79-25  
 Date MAY 2, 1979 Scale UNIT 1" = 2000'

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

WELL LOCATION MAP  
 FILE NO. 47-097-1946

+ Denotes location of well on United States Topographic Maps, scale 1 to 62 500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

*Deep Well*

UPS-1946

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

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 X / Shallow \_\_\_ /)  
LOCATION: Elevation: 1655' Watershed: Flatwoods Run into Little Kanawha River  
District: Banks County: Upshur Quadrangle: Rock Cave

WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Union Drilling, Inc.  
Address P.O. Drawer 40 Address P.O. Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate X  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON May 14, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Stewart  
Address Jane Lew, WV  
(304) 884-7782

GEOLOGICAL TARGET FORMATION: Oriskany Depth 7280' feet  
Depth of completed well, 7460' feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, 575' feet; salt, 1175' feet.  
Coal seam depths: 352'/58', 876'/80' Is coal being mined in the area? No  
Work was commenced August 24, 19 79, and completed September 17, 19 79

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		
Conductor	11 3/4"	42#		X		79.75'	79.75'	Kinds none
Fresh water								
Coal								Sizes
Intermediate	8 5/8"	24#		X		2503.45'	2503.45'	450 sks. poz 100 sks. common
Production	4 1/2"	11.60#		X		7452.80'	7452.80'	230 sks. rec Le-poz set
Tubing								
Liners								Perforations: 7108 1/2" to 7176 1/2" outer

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 7108'/76' feet  
Gas: Initial open flow, 58,697 Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Final open flow, 2,054,000 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 2 ~~XXXX~~ weeks  
Static rock pressure, 2675 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 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)

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

# Production History

1981-26359 mcf  
 82-19062 "  
 83-12169 "  
 84-9931 "  
 85-9502 "  
 86-28173 "  
 87-35361 mcf  
 88-59943 "  
 89-63222 "  
 90-60926 "

1992- 0  
 93-49782 mcf  
 94-47663 "  
 95-24939 "  
~~96-~~

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	1211	
Sand & Red Rock	White	Soft	1211	1230	3" water
Sand	White	Med.	1230	1334	3" water
Big Lime	Gray	Hard	1334	1390	3" water
Big Lime	Gray	Med.	1390	1470	3" water
Sand & Shale	W & G	Med.	1470	1490	3" water
Run Sand	Red	Hard	1490	1551	3" water
White Sand	White	Med.	1551	1694	3" water
White Sand	W & G	Med.	1694	1740	3" water
Sand Rock & Shale	R & G	Soft	1740	1760	3" water
Sand & Shale	Gray	Soft	1760	1811	3" water
Red Rock	Red	Soft	1811	1865	3" water
Sand	W. Sand	Hard	1865	1914	3" water
Red Rock	Red	Soft	1914	1975	3" water
Shale & Red Rock	Gray	Soft	1975	2023	3" water
Shale	Gray	Med.	2023	2168	3" water
Sand		Hard	2168	2200	3" water
Shale	Gray	Med.	2200	2527	3" water
Sand & Shale	Gray	Hard	2527	2650	
Shale	Gray	Soft	2650	2794	
Sand	Gray	Med.	2794	3116	
Sand	Gray	Med.	3116	3826	
Benson			3826	3884	
Sand & Shale			3884	3934	
Alexander			3934	4200	
Sand & Shale			4200	5176	
Elk			5176	5200	
Sand & Shale			5200	5736	
Sycamore Grit			5736	5776	
Sand & Shale			5776	6232	
Tully Limestone			6232	6250	
Sand & Shale			6250	6782	

(Attach separate sheets to complete as necessary)

Well Operator

By

*Joseph C. Pittman*

Its

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."

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

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Marcellus			6782	6874	
Huntersville Chert			6874	6968	
Oriskany Sandstone			6968	7236	
Heldeberg Limestone			7236	7460' T.D.	

7460  
5200  
2260 ft.  
Exploratory

ORTH  
3884  
2440

(Attach separate sheets to complete as necessary)

UNION DRILLING, INC.

Well Operator

By  
Its

Joseph C. Petty Joseph C. Petty  
Production Manager

NOTE: Regulation 2.02(f) 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."

Dud Cardwell



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 11, 1982  
Operator's  
Well No. 1488-UC  
Farm W. F. Osborn #2  
API No. 47 - 097 - 1946

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

SUPPLEMENT TO WELL RECORD DATED  
Nov. 5, 1979

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

LOCATION: Elevation: 1655 Watershed Flatwoods Run into Little Kanawha River  
District: Banks County Unshur Quadrangle Rock Cave

COMPANY UNION DRILLING, INC.

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

DESIGNATED AGENT UNION DRILLING, INC.

ADDRESS P. O. Drawer 40, Buckhannon, WV

SURFACE OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

MINERAL RIGHTS OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_

ADDRESS \_\_\_\_\_

PERMIT ISSUED \_\_\_\_\_

DRILLING COMMENCED August 24, 1979

DRILLING COMPLETED September 17, 1979

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 Cond.			
13-10"			
9 5/8	RECEIVED		
8 5/8			
7	MAY 15 1982		
5 1/2	OIL AND GAS DIVISION WV DEPARTMENT OF MINES		
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION \_\_\_\_\_ Depth \_\_\_\_\_ feet

Depth of completed well \_\_\_\_\_ feet Rotary \_\_\_ / Cable Tools \_\_\_\_\_

Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet

Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet

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

(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

MAY 24 1982  
(Continue on reverse side)

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
THIS INFORMATION IS TO SUPPLEMENT THAT ON THE WELL RECORD DATED NOVEMBER 5, 1979					
Top Soil	Brown	Soft	0	16	Water at 81' 1"
Sand	White	Hard	16	126	
Shale	Gray	Med.	126	140	
Sand & Shale	Gray/wh.	Med.	140	224	Water at 190' 1"
Shale	Gray	Med.	224	352	
Coal	Black	Soft	352	358	
Sand & Shale	Gray	Soft	358	570	
Sand	Gray	Hard	570	575	Water at 575' 2"
Sand	Gray	Soft	575	675	
Sand	White	Hard	675	846	
Shale	Gray	Med.	846	852	
Sand	wh/gr	Hard	852	862	
Sand & Shale	Gray	Med.	862	876	Water at 862' 2"
Coal	Black	Soft	876	880	Water at 876' 2"
Brown Shale	Brown	Hard	880	965	Water at 880' 2"
Sand	White	Hard	965	1035	
Sand & Shale	Gray	Med.	1035	1174	Water at 1125 to 2527' 3"
Red Rock	Red	Soft	1174	1201	
Sand, Red Rock	Gray/red	Hard	1201	1205	
White Sand	White	Hard	1205	1211	
Sand, Red Rock	wh/red	Soft	1211	1230	
Sand	White	Med.	1230	1334	
Big Lime	Gray	Hard	1334	1470	
Sand & Shale	wh/gray	Med.	1470	1490	
Injun Sand	Red	Hard	1490	1551	
White Sand	White	Med.	1551	1740	
Red Rock, Shale			1740	1760	
Sand & Shale	Gray	Soft	1760	1811	
Red Rock	Red	Soft	1811	1865	
Sand	White	Hard	1865	1914	
Shale, Red Rock	Red	Soft	1914	1975	
Shale	Gray	Soft	1975	2168	
Sand	White	Hard	2168	2200	
Shale	Gray	Med.	2200	2527	
Sand & Shale	Gray	Med./Hard	2527	2650	
Shale	Gray	Soft	2650	2794	
Sand	Gray	Med.	2794	3116	

(SEE PAGE 3)

(Attach separate sheets as necessary)

UNION DRILLING, INC.  
Well Operator

By: *[Signature]*  
Date: May 12, 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."

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
(PAGE 3 of Permit # 47-097-1946)					
Sand	Gray	Med.	3116	3826	
Benson	Gray	Med.	3826	3884	
Sand & Shale	Gray	Med.	3884	3934	
Alexander	Gray	Med.	3934	4200	
Sand & Shale	Gray	Soft	4200	5176	
Elk			5176	5200	
Sand & Shale	Gray	Med.	5200	5736	
Sycamore Grit	Gray	Hard	5736	5776	
Sand & Shale	Gray	Hard	5776	6232	
Tully Limestone	Gray	Med.	6232	6250	
Sand & Shale	Gray		6250	6782	
Marcellus	Black	soft	6782	6874	
Huntersville Chert	Gray	Hard	6874	6968	
Oriskany Sandstone	Gray	Hard	6968	7236	
Heldeberg Limestone	Gray	Hard	7236	TD 7460	Gas check at Drill Collars 12/10 - 1½" with water.

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: 

Date: May 12, 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."

MAY 24 1982

MAY 24 1982



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

1946

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )  
LOCATION: Elevation: 1655' Watershed: Flatwoods Run into Little Kanawha River  
District: Banks County: Upshur Quadrangle: Rock Cave

WELL OPERATOR Union Drilling, Inc. DESIGNATED AGENT Union Drilling, Inc.  
Address P.O. Drawer 40 Address P.O. Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON May 14, 1979, OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Stewart  
Address Jane Lew, WV  
(304) 884-7782

GEOLOGICAL TARGET FORMATION: Oriskany Depth 7280' feet  
Depth of completed well, 7460' feet Rotary  / Cable Tools   
Water strata depth: Fresh, 575' feet; salt, 1175' feet.  
Coal seam depths: 352'/58', 876'/80' Is coal being mined in the area? NO  
Work was commenced August 24, 1979, and completed September 17, 1979

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		
Conductor	11 3/4"	42#		X		79.75'	79.75'	Kinds none
Fresh water								
Coal								Sizes
Intermediate	8 5/8"	24#		X		2503.45'	2503.45'	450 sks. poz 100 sks. common
Production	4 1/2"	11.60#		X		7452.80'	7452.80'	230 sks. reg. poz set
Tubing								
Liners								Perforations: 7108 1/2 to 7176 1/2 section

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 7108'/76' feet  
Gas: Initial open flow, 58,697 Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, 58,54,000 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 2 XXXX weeks  
Static rock pressure, 2675 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 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)

[08-78]

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

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	1211	
Sand & Red Rock	White	Soft	1211	1230	3" water
Sand	White	Med.	1230	1334	3" water
Big Lime	Gray	Hard	1334	1390	3" water
Big Lime	Gray	Med.	1390	1470	3" water
Sand & Shale	W & G	Med.	1470	1490	3" water
Injun Sand	Red	Hard	1490	1551	3" water
White Sand	White	Med.	1551	1694	3" water
White Sand	W & G	Med.	1694	1740	3" water
Red Rock & Shale	R & G	Soft	1740	1760	3" water
Sand & Shale	Gray	Soft	1760	1811	3" water
Red Rock	Red	Soft	1811	1865	3" water
Sand	W. Sand	Hard	1865	1914	3" water
Red Rock	Red	Soft	1914	1975	3" water
Shale & Red Rock	Gray	Soft	1975	2023	3" water
Shale	Gray	Med.	2023	2168	3" water
Sand		Hard	2168	2200	3" water
Shale	Gray	Med.	2200	2527	3" water
Sand & Shale	Gray	Hard	2527	2650	
Shale	Gray	Soft	2650	2794	
Sand	Gray	Med.	2794	3116	
Sand	Gray	Med.	3116	3826	
Benson			3826	3884	
Sand & Shale			3884	3934	
Alexander			3934	4200	
Sand & Shale			4200	5176	
Elk			5176	5200	
Sand & Shale			5200	5736	
Sycamore Grit			5736	5776	
Sand & Shale			5776	6232	
Tully Limestone			6232	6250	
Sand & Shale			6250	6782	

(Attach separate sheets as complete as necessary)

Well Operator  
 By Joseph C. Pitter  
 Its \_\_\_\_\_

**NOTE:** Regulation 2.92(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."

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

Page 3 - Well #1488-UC

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS
					Including indication of all green and salt water, coal, oil and gas
Marcellus			6782	6874	
Huntersville Chert			6874	6968	
Oriskany Sandstone			6968	7236	
Heldeberg Limestone			7236	7460' T.D.	

(Attach separate sheets as complete as necessary)

UNION DRILLING, INC.

Well Operator

By Joseph C. Petty Joseph C. Petty  
 as Production Manager

NOTE: Regulation 2.32(d) 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."

Operator's Well No. 2-1488-UC

API Well No. 47 - 097 - 1946  
State County Permit

William F. Osborn #2 (1488-UC)

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

~~NO. 47-097-1946~~

OIL AND GAS WELL PERMIT APPLICATION

(TO BE HELD CONFIDENTIAL)

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

LOCATION: Elevation: 1655' Watershed: Flatwoods Run into Little Kanawha River  
District: Banks County: Upshur Quadrangle: Rock Cave

WELL OPERATOR UNION DRILLING, INC.  
Address P. O. Drawer 40  
Buckhannon, WV 26201

DESIGNATED AGENT UNION DRILLING, INC.  
Address P. O. Drawer 40  
Buckhannon, WV 26201

OIL & GAS (FEE SIMPLE)  
ROYALTY OWNER R. S. & Margaret Smallridge  
29 College Ave., Buckhannon, WV  
Address AND Dale & Betty Colerider  
119 S. Kanawha St., Buckhannon, WV  
Acreage 42 of 215.18

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

SURFACE OWNER \_\_\_\_\_  
Address \_\_\_\_\_  
Acreage \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Robert Stewart  
Address Jane Lew, WV  
884-7782

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

MAY 14 1979

UDI Lease #342 OIL & GAS DIVISION

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease x / other contract \_\_\_ / dated March 6, 1975, to the undersigned well operator from R.S. & Margaret Smallridge (wife) & Dale & Betty Colerider (wife).  
[If said deed, lease, or other contract has been recorded:]

Recorded on March 13, 1975, in the office of the Clerk of the County Commission of Upshur County, West Virginia, in Lease Book 57 at page 797. 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) 342-3092

UNION DRILLING, INC.  
Well Operator

By Joseph Pettey  
Its Joseph Pettey, Production Manager

BLANKET BOND

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, Oriskany

Estimated depth of completed well, 7300 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, ? feet; salt, ? feet.  
Approximate coal seam depths: ? Is coal being mined in the area? Yes      / No X /

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		
Conductor	11 3/4"			X		30'	30'	Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8"			X		2,500'	2,500'	to surface
Production	4 1/2"			X		7,250'	7,250'	as needed
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 § 22-6-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-6-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-6-12a, and (v) if applicable, the consent required by Code § 22-6-8a 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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-15-80

  
Deputy Director - Oil & Gas Division

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 § 22-6-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

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