



1) Date: October 6, 19 83
 2) Operator's Well No. 2-1927
 3) API Well No. 47 - 083 - 0831
 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 X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 2820 Watershed: Marsh Fork into Right Fork of Buckhannon River
 District: Middle Fork County: Randolph Quadrangle: Pickens
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phil Tracy Name Union Drilling, Inc.
 Address General Delivery Address P. O. Drawer 40
Ellamore, WV 26267 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, Benson
 12) Estimated depth of completed well, 4200 feet
 13) Approximate strata depths: Fresh, ? feet; salt, ? feet.
 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No X /

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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	11-3/4			X		20	20		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23	X		1000	1000	400	
Production	4-1/2	K-55	10 1/2	X		4200	4200	350	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-083-0831 Date October 28, 19 83

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 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

BLANKET BOND

Bond	Agent <u> </u>	Plat <u> </u>	Casing <u> </u>	Fee <u>9499</u>
------	-------------------------	------------------------	--------------------------	-----------------

[Signature]

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.



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) Date: _____
 2) Operator's Well No.: _____
 3) APT Well No.: _____
 State: _____ County: _____

1) WELL LOCATION: _____
 2) WELL OPERATOR: _____
 3) DRILLING CONTRACTOR: _____
 4) OIL & GAS INSPECTOR TO BE NOTIFIED: _____
 5) PROPOSED WELL WORK: _____
 6) GEOLOGICAL TARGET FORMATION: _____
 7) ESTIMATED DEPTH OF COMPLETED WELL: _____
 8) APPROXIMATE TATA DEPTH: _____
 9) APPROXIMATE COAL SEAM DEPTHS: _____
 10) CASING AND TUBING PROGRAM: _____

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Date	Date(s)
Application received	Follow-up inspection(s)
Well work started	" "
Completion of the drilling process	" "
Well Record received	" "
Reclamation completed	" "

OTHER INSPECTIONS

Reason: _____

Reason: _____



IV-9
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

DATE 9-27-83
WELL NO. 1927
API NO. 47-Randolph 0831
083

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc. DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV Address P. O. Drawer 40, Buckhannon, WV 2620
Telephone 472-4610 Telephone 472-4610
LANDOWNER J.F. Company SOIL CONS. DISTRICT Tygart Valley
Revegetation to be carried out by Union Drilling, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 10/2/83

(Date)
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert Pipe (12' Min) (A)
Spacing # Natural Drains
Page Ref. Manual _____
Structure Cross Drains (B)
Spacing 250' + -
Page Ref. Manual _____
Structure Roadway Ditch (C)
Spacing _____
Page Ref. Manual _____

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual _____
Structure RECEIVED (2)
Material OCT 7 1983
Page Ref. Manual _____
Structure OIL & GAS DIVISION (3)
Material DEPT. OF MINES
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Ky-31 30 lbs/acre
Birdsfoot 10 lbs/acre
Domestic Rye 10 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Ky-31 30 lbs/acre
Birdsfoot 10 lbs/acre
Domestic Rye 10 lbs/acre

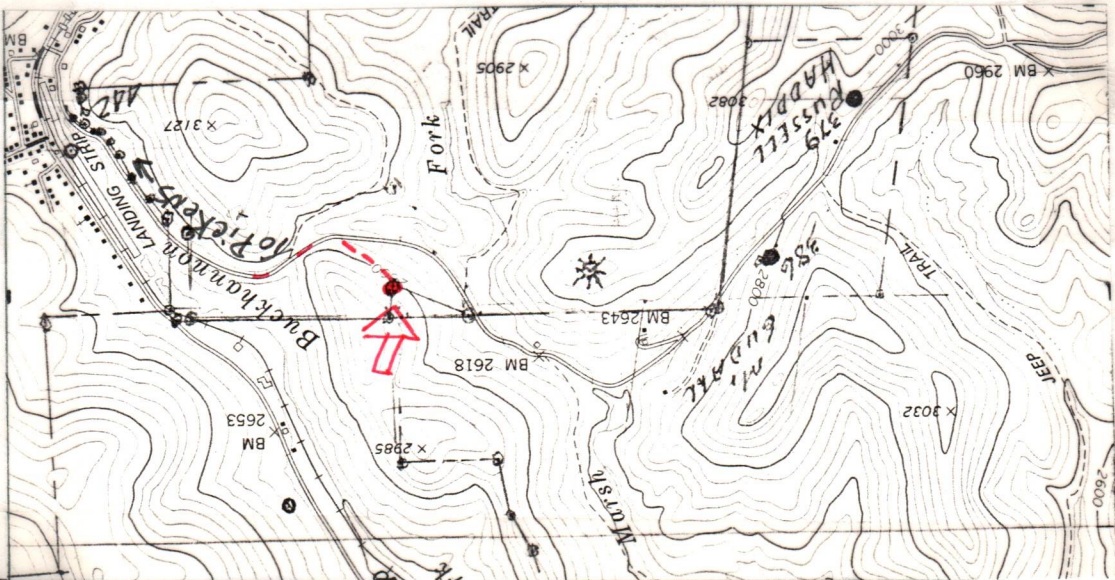
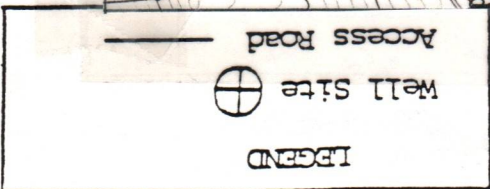
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Danny O' Morgan
ADDRESS P. O. Drawer 40, Buckhannon, WV 2620

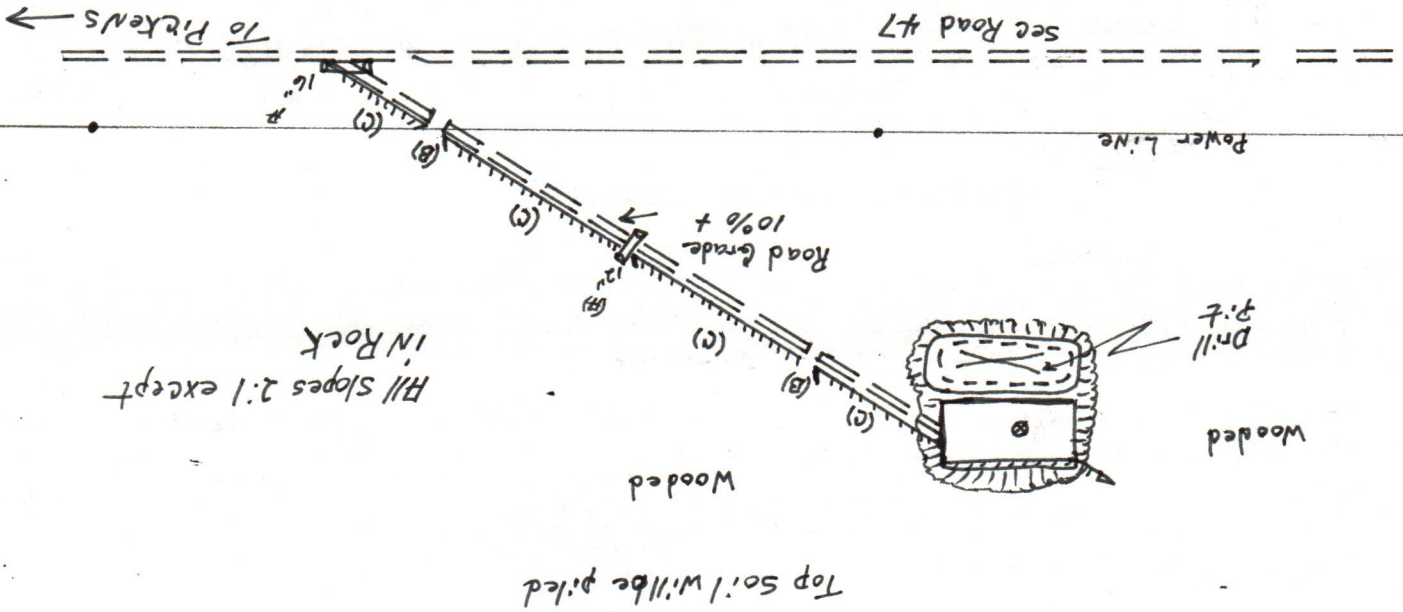
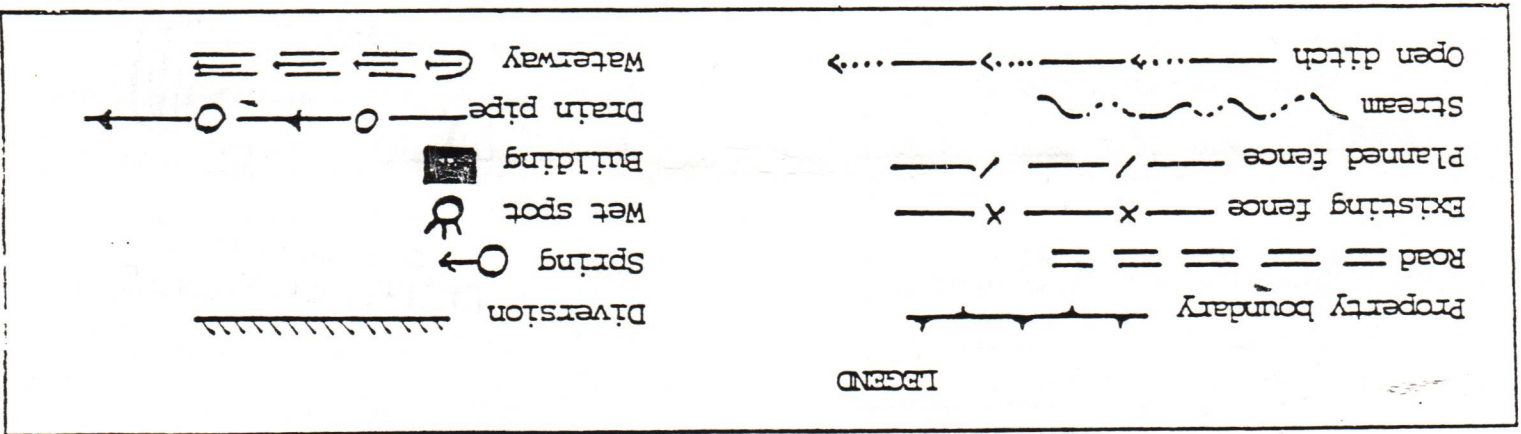
PHONE NO. (304) 472-4610

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTO COPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE PICKENS 7.5



Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



1) Date: October 6, 1983
2) Operator's Well No. 2-1927
3) API Well No. 47-083-0831
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

- (i) Name J & F Company
Address c/o James H. Brewster, Jr.
Post Office Box 590, Weston, WV
- (ii) Name _____
Address 26452-0590
- (iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name SEE ATTACHMENT
Address _____

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Boden Coal Company
Address 215 Central Avenue
Newark, NJ 07103

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Joseph C. Pettey

this 04 day of October, 1983.
My commission expires 10/19, 1987.

Janet L Withers
Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR Union Drilling, Inc.

By Joseph C. Pettey
Its Vice President of Production
Address Post Office Drawer 40
Buckhannon, WV 26201
Telephone 304-472-4610

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OCT - 7 1983
OIL & GAS DIVISION
DEPT. OF MINES

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Allen A. Warren, et. al.	Union Drilling, Inc.	1/8	335/464, 470, 288, 290, 460, 462, 506, 508




UNION DRILLING, INC.

 Drawer 40
 Buckhannon, WV 26201

 DRILLING CONTRACTORS
 PRODUCERS OF OIL AND GAS

SUPPLEMENT TO OIL AND GAS WELL PERMIT APPLICATION - FORM IV-2 (A)

 DATE: October 6, 1983

 Operator's
 Well No. 2-1927

API Well No. _____

COAL, OIL AND GAS OWNERS ARE THE SAME:

 Mr. & Mrs. Allan Warren
 246 First Street
 Weston, West Virginia 26452

 Mr. & Mrs. Walter H. Warren, Jr.
 1030 Ponderosa Drive
 Culloden, West Virginia 25510

 Mr. & Mrs. Irving J. Bradley
 402 West Timonium Street
 Lutherville, Maryland 21093

 Mr. & Mrs. Andrew F. Sleigh
 570 Locust Street
 Weston, WV 26452

 Mr. & Mrs. John W. Orr
 464 Main Avenue
 Weston, WV 26452

 Mr. & Mrs. Warren G. Bodkin, Jr.
 2617 Glendale Avenue
 South Charleston, WV 25303

 Mr. & Mrs. Elgin K. Van Meter
 1660 Pinetree Drive
 Pittsburgh, PA 15241

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 OIL & GAS DIVISION
 DEPT. OF MINES

P 311 719 246
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		J & F Company		
STREET AND NO.		c/o James H. Brewster, Jr.		
P.O., STATE AND ZIP CODE		Post Office Box 590 Weston, WV 26452-0590		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

P 311 719 254
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Boden Coal Company		
STREET AND NO.		215 Central Avenue		
P.O., STATE AND ZIP CODE		Newark, NJ 07103		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

P 311 719 252
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Mr. and Mrs. Allan Warren		
STREET AND NO.		246 First Street		
P.O., STATE AND ZIP CODE		Weston, WV 26452		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

P 311 719 251
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Mr. & Mrs. Walter H. Warren		
STREET AND NO.		1030 Ponderosa Drive		
P.O., STATE AND ZIP CODE		Culloden, WV 25510		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

P 311 719 253
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Mr. and Mrs. I. J. Bradley		
STREET AND NO.		402 West Timonium Street		
P.O., STATE AND ZIP CODE		Lutherville, MD 21093		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

P 311 719 247
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Andrew F. Sleight		
STREET AND NO.		570 Locust Street		
P.O., STATE AND ZIP CODE		Weston, WV 26452		
POSTAGE		\$ 37 75¢		
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE		
		SPECIAL DELIVERY	¢	
		RESTRICTED DELIVERY	¢	
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	60	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢
TOTAL POSTAGE AND FEES		\$ 172		
POSTMARK OR DATE		OCT 6 1983 1927		

PS Form 3800, Apr. 1976

IV-35
(Rev 8-81)



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JAN 19 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 23, 1983
Operator's
Well No. 2-1927
Farm Warpen Heirs #2
API No. 47 - 083 - 0831

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 / Shallow x /)

LOCATION: Elevation: 2820 Watershed Marsh Fork into Right Fork of Buckhannon River
District: Middle Fork County Randolph Quadrangle Pickens

COMPANY Union Drilling, Inc
ADDRESS P.O. Drawer 40 Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Vanzant, Jr.
ADDRESS P.O. Drawer 40 Buckhannon, WV 26201
SURFACE OWNER J. & F. Company
ADDRESS c/o James Brewster, Jr. 26 Main Weston, WV 26452
MINERAL RIGHTS OWNER See Attached
ADDRESS Page
OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy
ADDRESS Gen. Del. Ellamore 26267
PERMIT ISSUED 10/28/83
DRILLING COMMENCED 11/19/83
DRILLING COMPLETED 11/24/83
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.			
13-10"		pulled	
9 5/8			
8 5/8	956.45		235 cf.
7			
5 1/2			
4 1/2	4100.75		554 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4200' feet
Depth of completed well 4150' feet Rotary x / Cable Tools
Water strata depth: Fresh none feet; Salt feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson, Riley, Bayard, 5th Sa Pay zone depth 3977' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 582 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 550 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

(Continue on reverse side)

RAND. 0831

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

Dowell Frac - 12/12/83 - Water & Foam

2317/2429 5th Sand, Bayard 240 Bbls. water, 354,000 scf Nitrogen, and 60,000# sand
 3694/3777 Riley, 240 Bbls. water, 426,000 scf Nitrogen, and 60,000# sand
 3970/3977 Benson, 240 Bbls. water, 738,000 scf Nitrogen, and 60,000# sand

DEPT. OF MINES
OIL & GAS DIVISION

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	1515	
Blue Monday			1515	1568	
Big Lime			1568	1672	
Injun			1682	1834	
Squaw			1855	1861	
5th Sand			2309	2358	
Bayard			2426	2432	
Lower Bayard			2453	2486	
Elizabeth			2546	2570	
Bradford			3381	3406	
Riley			3692	3737	
Benson			3965	3980	
				4150	T.D. gas show at T.D.

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

01-16-84

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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NOV 1 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 3, 1984

COMPANY Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, West Virginia 26201

PERMIT NO 083-0831
FARM & WELL NO J & F Co., #2-1927
DIST. & COUNTY Middle Fork/Randolph

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Philip Tracy
DATE 10-30-84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...
Administrator-Oil & Gas Division

January 10, 1985
DATE

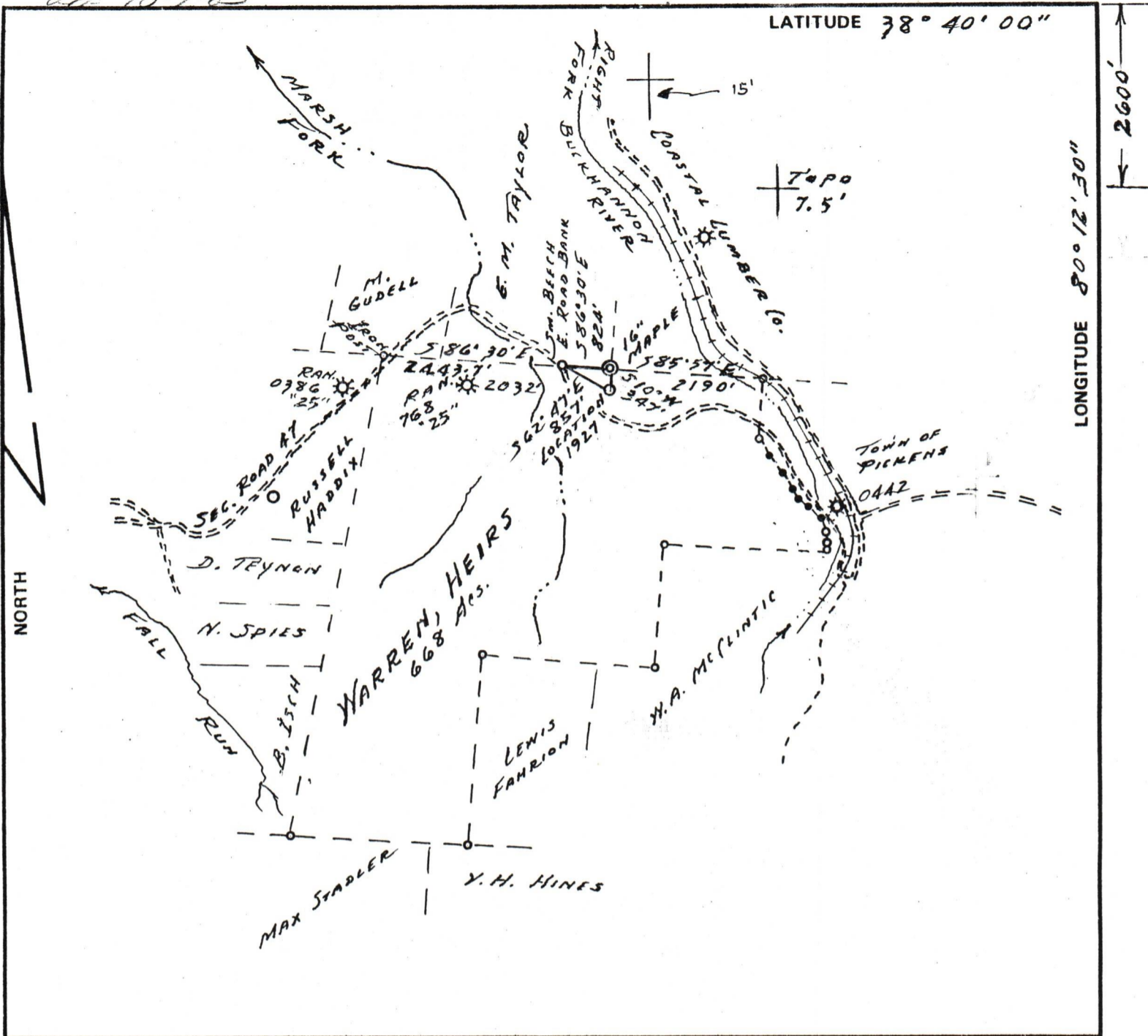
10-7-83

4570'

LATITUDE 38° 40' 00"

LONGITUDE 80° 12' 30"

2600'



FILE NO. UDI-2-54
 DRAWING NO. 82-3
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 500
 PROVEN SOURCE OF ELEVATION Knob 1700' NW. OF LOCATION
EL. = 2985

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

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



DATE SEPT. 23, 1983
 OPERATOR'S WELL NO. 2-1927
 API WELL NO. _____
47-083-0831
 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 2820 WATER SHED MARSH FORK INTO RT. FORK BUCKHANNON RIVER
 DISTRICT MIDDLE FORK COUNTY RANDOLPH
 QUADRANGLE PICKENS
 SURFACE OWNER J. F. COMPANY ACREAGE 668
 OIL & GAS ROYALTY OWNER WARREN, HEIRS LEASE ACREAGE 668
 LEASE NO. 1282
 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 BENSON ESTIMATED DEPTH 4200
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH G. VANZANT, JR.
 ADDRESS P.O. DRAWER 40 BUCKHANNON, WY. 26201 ADDRESS P.O. DRAWER 40 BUCKHANNON, WY. 26201

RAND. 0831