



1) Date: October 6, 1983, 19__
 2) Operator's Well No. 2-1923
 3) API Well No. 47 - 083 - 0832
 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: 2180 Watershed: Tygart Valley River
 District: Roaring Creek County: Randolph Quadrangle: Junior
- 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 Phil Tracy
 Address General Delivery
Ellamore, WV 26267
- 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, Elk
- 12) Estimated depth of completed well, 5600 feet
- 13) Approximate trata depths: Fresh, 50 feet; salt, ___ feet.
- 14) Approximate coal seam depths: 246, 390, 456, 517, 827, Is coal being mined in the area? Yes ___ No X
- 15) CASING AND TUBING PROGRAM 840

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 OIL & GAS DIVISION
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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		XX 20	20		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8		23	X		900	900	300	
Production	4-1/2	K-55	10 1/2	X		5600	5600	500	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-083-0832

October 28, 19 83
 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 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
BLANKET BOND	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	9500

[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.



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

OFFICE USE ONLY

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

1) LOCATION: 8 (Oil & Gas) Production Well No. 2180, Elevation: 2180, District: Boone County, West Virginia, State: West Virginia, County: Boone, Township: Boone, Range: Boone, Section: Boone, Quarter: Boone, Subquarter: Boone, Depth: Shallow, Undrilled: No, Worked: Yes, Well No. 2180, State: West Virginia, County: Boone, District: Boone, Elevation: 2180, Production: 8 (Oil & Gas)

2) WELL OPERATOR: Name: Post Office Box 40, Address: Post Office Box 40, Boone, West Virginia, 26001

3) DESIGNATED AGENT: Name: Post Office Box 40, Address: Post Office Box 40, Boone, West Virginia, 26001

4) DRILLING CONTRACTOR: Name: Post Office Box 40, Address: Post Office Box 40, Boone, West Virginia, 26001

5) PROPOSED WELL WORK: Drill: Yes, Depth: 500, Other physical change in well (specify): None, Perform new formation: No, Plug old formation: No

6) GEOLOGICAL TARGET FORMATION: Estimated depth of completed well: 500, Approximate true depth: 500, Approximate total seam depth: 500, Is coal being mined in the area: Yes

7) CASING AND TUBING PROGRAM: Casing type: Production, Tubing type: Production, Casing size: 4 1/2", Tubing size: 2 3/8", Casing weight: 25, Tubing weight: 15, Casing length: 500, Tubing length: 500, Casing joint: 20, Tubing joint: 20, Casing packer: No, Tubing packer: No, Casing cement: No, Tubing cement: No

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Bond:	Agent:	Plat:	Casings:	Fee:

BLANKET BOND



IV-9
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

DATE 9-20-83
WELL NO. 1923
API NO. 47-Randolph 0832

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Union Drilling, Inc.
Address P. O. Drawer 40, Buckhannon, WV
Telephone 472-4610

DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address P. O. Drawer 40, Buckhannon, WV 2620
Telephone 472-4610

LANDOWNER Western Maryland Co.

SOIL CONS. DISTRICT Tygart Valley
(Agent)

Revegetation to be carried out by Union Drilling, Inc.

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

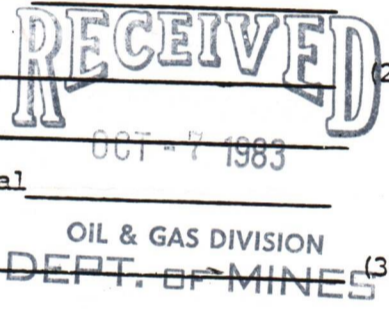
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure _____ (A)
Spacing _____
Page Ref. Manual _____
Structure Cross Drains (B)
Spacing 250' +-
Page Ref. Manual _____
Structure Road Ditch (C)
Spacing _____
Page Ref. Manual _____

Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual _____
Structure _____ (2)
Material _____
Page Ref. Manual _____
Structure _____ (3)
Material _____
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

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

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

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

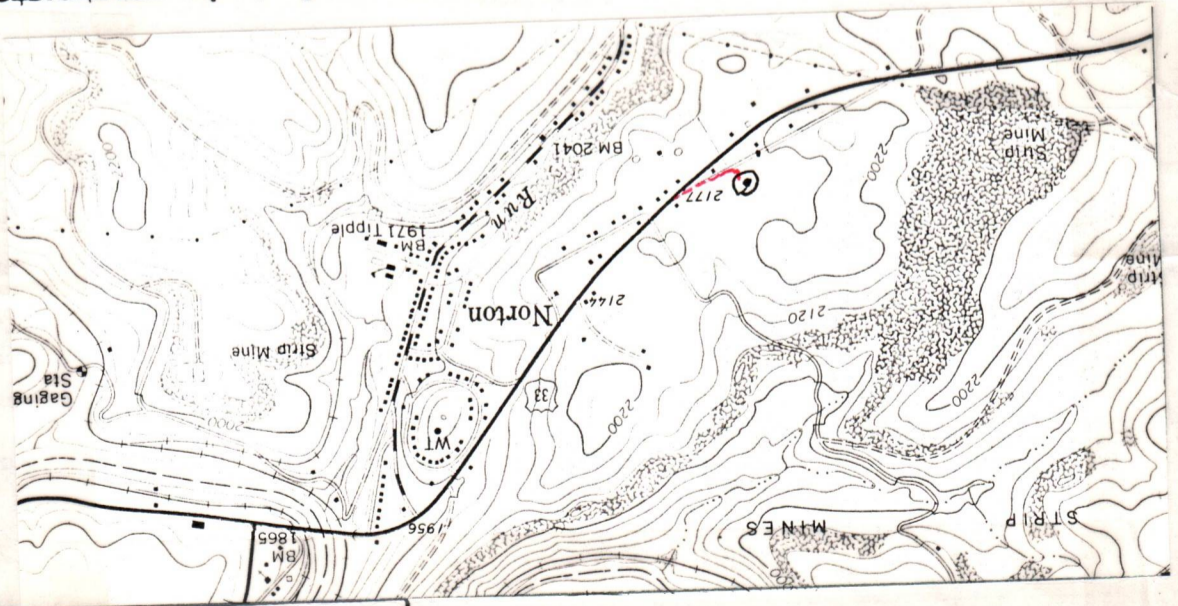
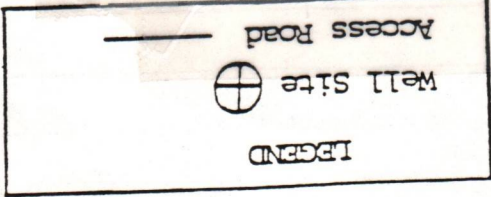
PLAN PREPARED BY Danny O' Morgan

ADDRESS P. O. Drawer 40, Buckhannon, WV 2620

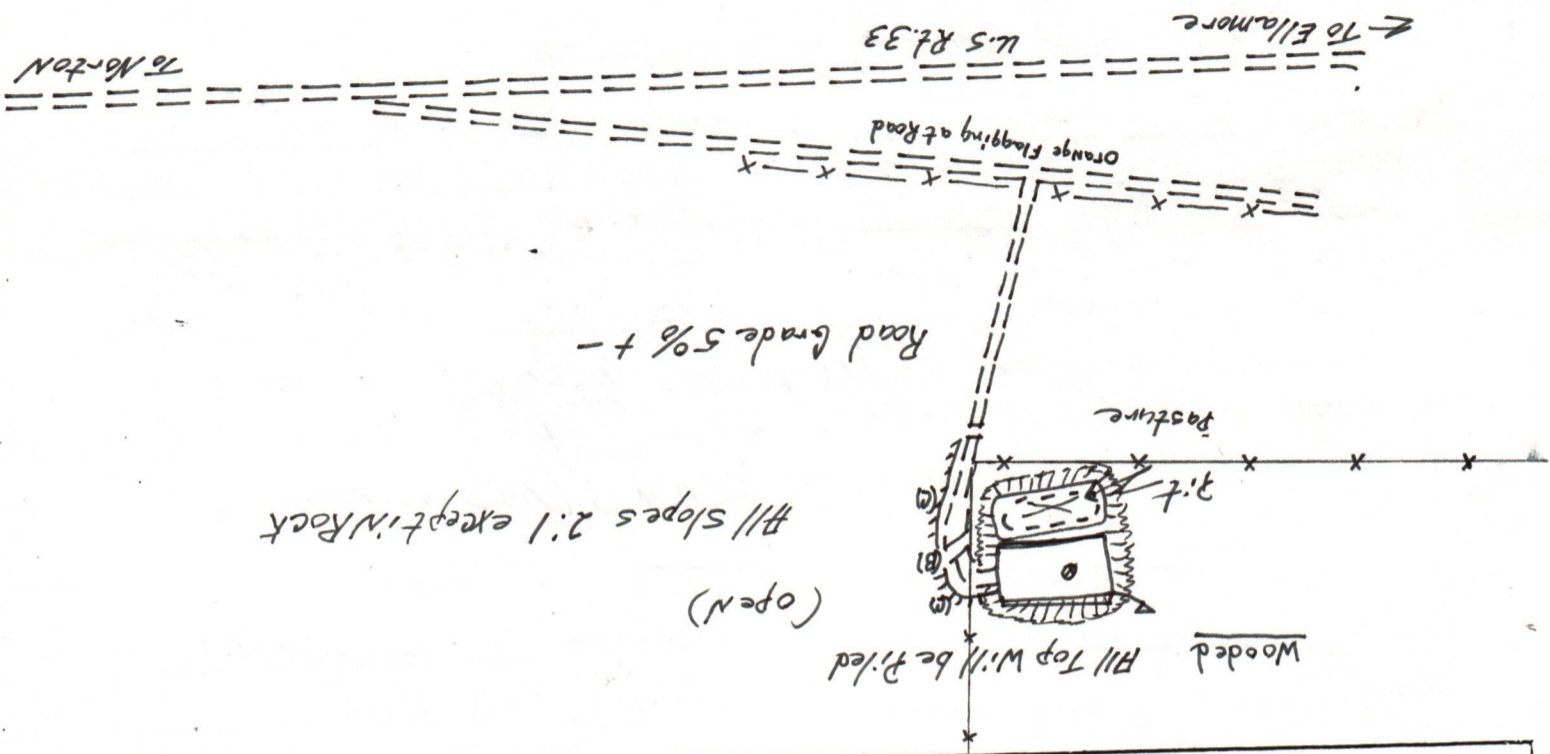
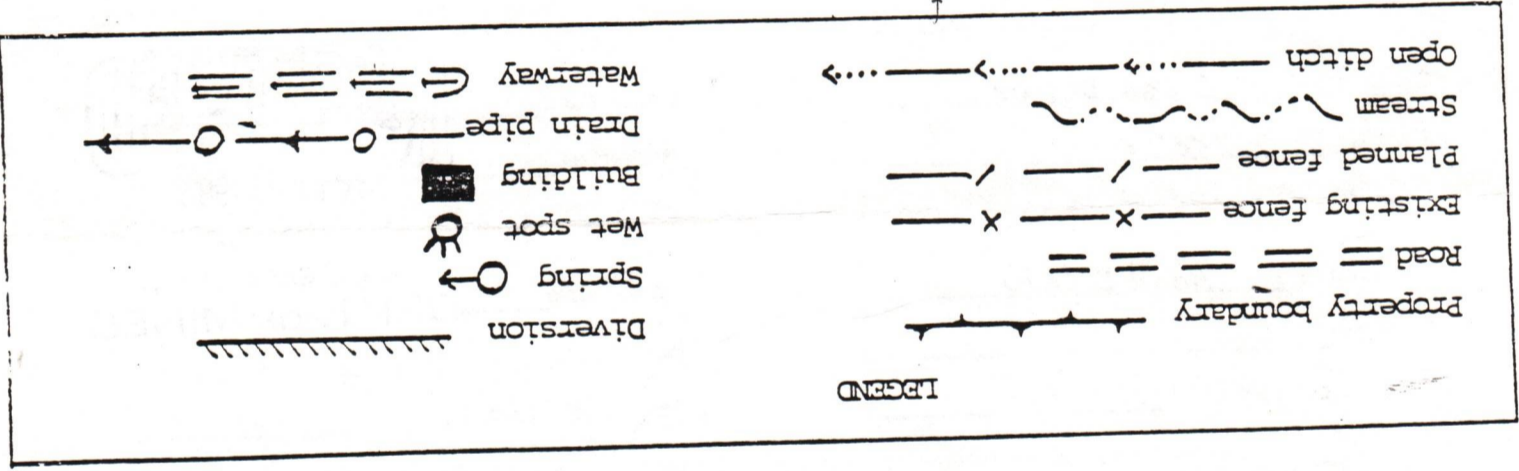
PHONE NO. (304) 472-4610

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

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE JUNIOR 7.5



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



(open)
Hill slopes 2:1 except in Rock

1) Date: October 6, 19 83
2) Operator's Well No. 2-1923
3) API Well No. 47-083-0832
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 Western Maryland Company
Address c/o CSX Resources, Inc.
707 E. Main St., Suite 350, Richmond, VA 23219
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR _____
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Western Maryland Company
Address c/o CSX Resources, Inc.
707 E. Main St., Suite 350, Richmond, VA
Name _____ 23219
Address _____

LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

- TO THE PERSON(S) NAMED IN THIS NOTICE:
- (1) The Applicant to be permitted and described in the application for a Well Work Permit.
 - (2) The plat and description of the proposed well.
 - (3) The Construction and Reclamation Plan.

THE REASON WHICH ARE SUMMARY OF THE ACTION AT ALL.

- Take notice that the Well Operator proposes for a Well Work Permit in the Department of Mines, Oil and Gas, West Virginia and depicted on the attached Application, the plat, and the Construction and Reclamation Plan by hand to the Department of Mines, Oil and Gas before the day of _____, 1983.
- 6) EXTRACTION
 Check and include in the application for a Well Work Permit.
 The reason for extraction is based upon a lease or leases which is not inherently related to the well.
 If the answer is Yes, you may use Affidavit Form IV-6a.
 - 7) ROYALTY
Is the royalty or other consideration for compensation based upon a lease or leases which is not inherently related to the well?
Yes _____ No XX

P 311 719 256
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO Western Maryland Co.
c/o CSX Resources, Inc.
STREET AND NO. 707 East Main St. Suite 350
P.O., STATE AND ZIP CODE Richmond, VA 23219

POSTAGE	
CERTIFIED FEE	\$ 37
SPECIAL DELIVERY	75
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	60
SHOW TO WHOM AND DATE DELIVERED	
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
BUCKHANNON

PS Form 3800, Apr. 1976

and the following documents:
Form IV-4 if the well is for drilling or other work, or the proposed casing and cement; and
Form IV-6; and
The well work is only to be for sediment control and for

RIGHTS REGARDING THE APPLICATION AND THE COPY OF THE APPLICATION ARE NOT REQUIRED TO TAKE ANY

By the undersigned well operator and accompanying documents Oil and Gas, West Virginia as described on attached Application, the plat, and the Construction and Reclamation Plan (in certain circumstances) on or

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OIL & GAS DIVISION
DEPT. OF MINES

contract or contracts by which (see reverse side for specifics.)

based upon a lease or leases which is not inherently related to the well? Yes _____ No XX
needed. If the answer is Yes,

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 6th day of October, 1983.
My commission expires 10/19, 1987.

Jaret 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

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</u>	<u>Page</u>
Western Maryland Company	C. E. Beck	1/8th	278/77	
C. E. Beck	Amoco Production		4/142	
Amoco Production	William Perlman		unrecorded	
William Perlman	Union Drilling, Inc.		unrecorded	





IV-35
(Rev 8-81)
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OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 21, 1983
Operator's
Well No. 2-1923
Farm Western Maryland #2
API No. 47 - 083 - 0832

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: 2180' Watershed Tygart Valley River
District: Roaring Creek County Randolph Quadrangle Junior

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 Western Maryland Co.
ADDRESS 707 E. Main St. Richmond, Virginia 23219
MINERAL RIGHTS OWNER Same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
Phil Tracy ADDRESS Gen. Del. Ellamore 26267
PERMIT ISSUED 10/28/83
DRILLING COMMENCED 11/15/83
DRILLING COMPLETED 11/21/83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1052.75	1052.75	245 SKS
7			
5 1/2			
4 1/2	5372.95		1330 cf
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Elk Depth 5600' feet
Depth of completed well 5479' feet Rotary x / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? Yes

OPEN FLOW DATA
Producing formation Alexander, Elk Pay zone depth 5240 feet
Gas: Initial open flow 119 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 355 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 675 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)

Randolph 0832

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

Nowasco Water Fractured 12/5/83

- 1678/82 Squaw 45,000# sand and 402 bbl water
- 2838/78 Speechly 45,000# sand and 402 bbl water
- 3840/99 Benson 45,000# sand and 440 bbls water
- 4488/94 Alexander 45,000# sand and 400 bbls water
- 5001/240 Elk 45,000# sand and 445 bbls water

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 DIVISION
 DEPT. OF MINES

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	1426	
Big Lime			1426	1480	
Injun			1552	1610	
Squaw			1676	1688	
Fifth Sand			2226	2240	
Bayard			2273	2303	
Elizabeth			2429	2444	
Warren			2474	2488	
Speechly			2848	2878	
Riley			3709	3733	
Benson			3834	3914	
Alexander			4360	4496	
Elk			4998	5064	

SP-245 12-5-83

(Attach separate sheets as necessary)

Union Drilling, Inc
 Well Operator
 By: Joseph C. Pettey
 Date: Joseph C. Pettey, Vice President of Production

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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AUG 14 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

COMPANY Union Drilling

PERMIT NO 83-832 10/83

FARM & WELL NO 1923

DIST. & COUNTY Marion & 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 Phillips Gray

DATE 8-10-84

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. H. ...
Administrator-Oil & Gas Division

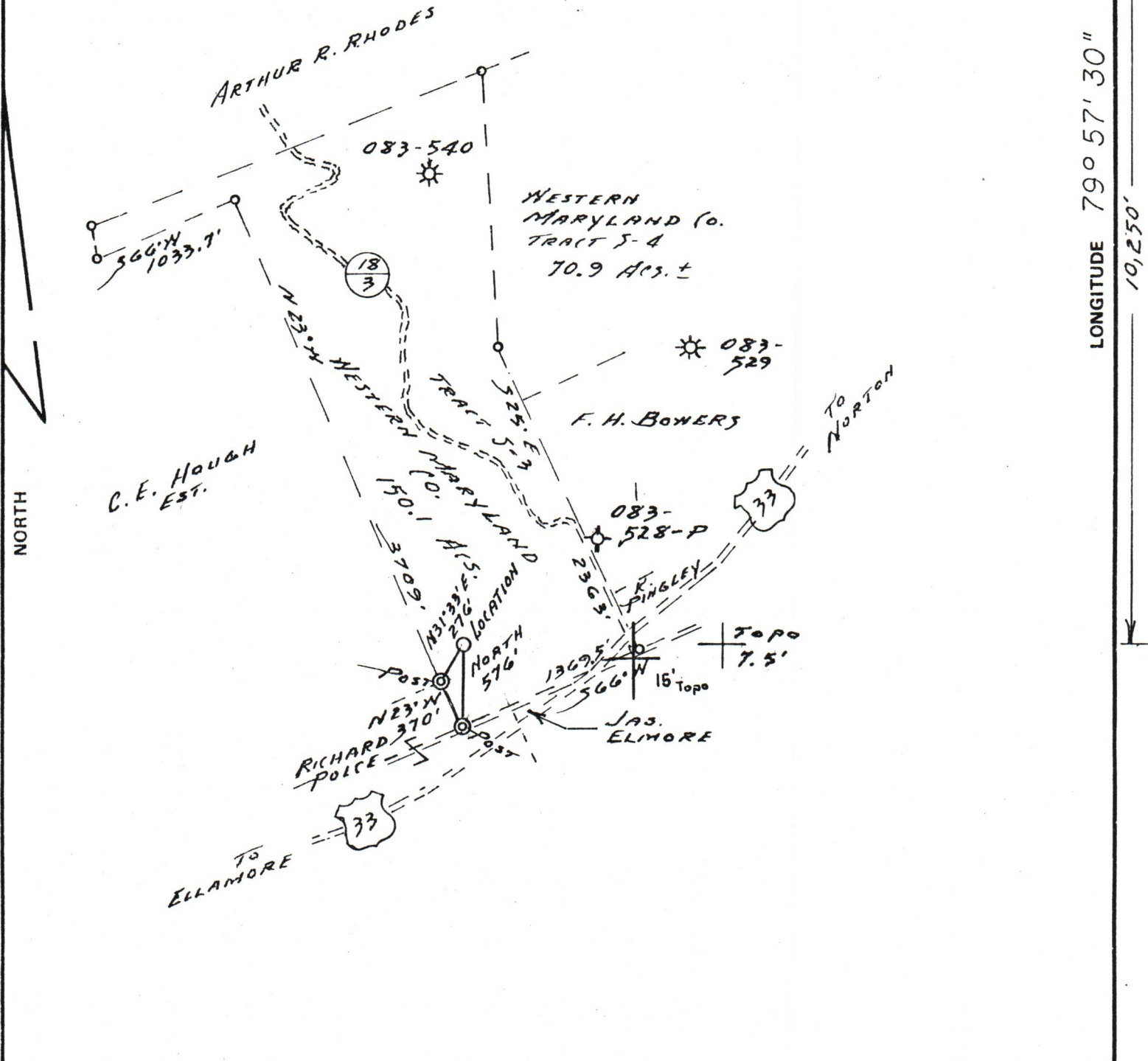
August 21, 1984

DATE _____

024 10-7-83

LATITUDE 38° 57' 30"

LONGITUDE 79° 57' 30"



FILE NO. W.D.P. 3-36
 DRAWING NO. 83-38
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD XING 1000 ±
E. OF LOCATION
EL. 2177

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 SEPT. 26 19 83
 OPERATOR'S WELL NO. 2-1923
 API WELL NO. _____
47 - 083 - 0832
 STATE COUNTY PERMIT

(+) 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 2180 WATER SHED TYGART VALLEY RIVER
 DISTRICT ROARING CREEK COUNTY RANDOLPH
 QUADRANGLE JUNIOR 7.5'
 SURFACE OWNER WESTERN MARYLAND CO. ACREAGE 150.1
 OIL & GAS ROYALTY OWNER WESTERN MARYLAND CO. LEASE ACREAGE 150.1
 LEASE NO. 510792 AMOCO
 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 ELK ESTIMATED DEPTH 5600'
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT JOSEPH C. YANZANT, JR.
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON, WY. 26201 BUCKHANNON, WY. 26201

RAND. 0832