



1) Date: May 18, 19 83
 2) Operator's Well No. 1A - 1880
 3) API Well No. 47 071 0010
 State County Permit

DRILLING CONTRACTOR:
Union Drilling, Inc.
P. O. Drawer 40
Buckhannon, WV 26201

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

U.S.A. #1A (1880)

OIL AND GAS WELL PERMIT APPLICATION

(CONFIDENTIAL WELL)

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production XX / Underground storage / Deep XX / Shallow)
- 5) LOCATION: Elevation: 2522' Watershed: Shaffer Run
 District: Union County: Pendleton Quadrangle: Hopeville 7.5'
- 6) WELL OPERATOR Union Drilling, Inc. 11) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address P. O. Drawer 40 Address P. O. Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Monongahela National Forest 12) COAL OPERATOR
 Address Jerry Bremer, District Ranger Address
Petersburg, WV 26847
- 8) SURFACE OWNER Monongahela National Forest 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Jerry Bremer, District Ranger Name No Marketable Coal Seams
Petersburg, WV 26847 Address
 Acreage 8841.75 Name
 Address
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address Not Determined at this time Name
 Address Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Stewart (884-7782)
 Address P. O. Box 345
Jane Lew, WV 26378
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate XX /
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Oriskany
- 17) Estimated depth of completed well, 8600 feet
- 18) Approximate water strata depths: Fresh, ? ≈ 1422 feet; salt, ? feet.
- 19) Approximate coal seam depths: none Is coal being mined in the area? Yes / No XX

RECEIVED
 MAY 19 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

20) 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	H-40	48#	X		200'	200'	250 sks.	Kinds <u>NEAT</u>
Fresh water									
Coal	9 5/8	N-80	43#	X		OR 2500'	2500'	575 sks.	Sizes <u>CTS NEAT</u>
Intermediate	9 5/8	k-36	36#	X					
Production	5 1/2	N-80	20#	X		OR 8600	8600	450 sks.	<u>as req by</u>
Tubing	5 1/2	N-80	17#	X					
Liners									Top <u> </u> Bottom <u> </u>

- 21) 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.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.
- 23) Required Copies (See reverse side.)
- 24) 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.
- Notary: Sharon L. Statnaker Signed: Joseph C. Pettey
 My Commission Expires 05/22/89 Its: Joseph C. Pettey, Vice President of
Commissioned as Sharon L. Kelley Production

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-071-0010 Date June 17 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. 10) 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.)

Permit expires June 17, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>lo</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>004-990</u>
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 Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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.**

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 _____



IV-9
(Rev 8-81)

DATE 4-25-83

WELL NO. 1880

State of West Virginia API NO. 47 - Pendleton

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME UNION DRILLING, INC.
Address P. O. Drawer 40
Telephone Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address Union Drilling, Inc.
Telephone P. O. Drawer 40
Buckhannon, WV 26201

LANDOWNER U.S.A #A1

SOIL CONS. DISTRICT Potomac Valley S.C.D

Revegetation to be carried out by Union Drilling, Inc. (Joseph C. Pettey, VP Agent)

This plan has been reviewed by Potomac Valley Soil Conservation District SCD. All corrections and additions become a part of this plan: 6/13/83

John H. Wagoner
(SCD Agent)

ACCESS ROAD	LOCATION
Structure _____ (A)	Structure <u>Diverson Ditch</u> (1)
Spacing _____	Material <u>Earthed</u>
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	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	<u>3</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch	<u>Hay or Straw</u>	<u>2</u> Tons/acre
Seed*	<u>Ky - 31</u>	<u>30</u> lbs/acre
	<u>Birdsfoot</u>	<u>10</u> lbs/acre
	<u>Domestic Rye</u>	<u>10</u> lbs/acre

Treatment Area II

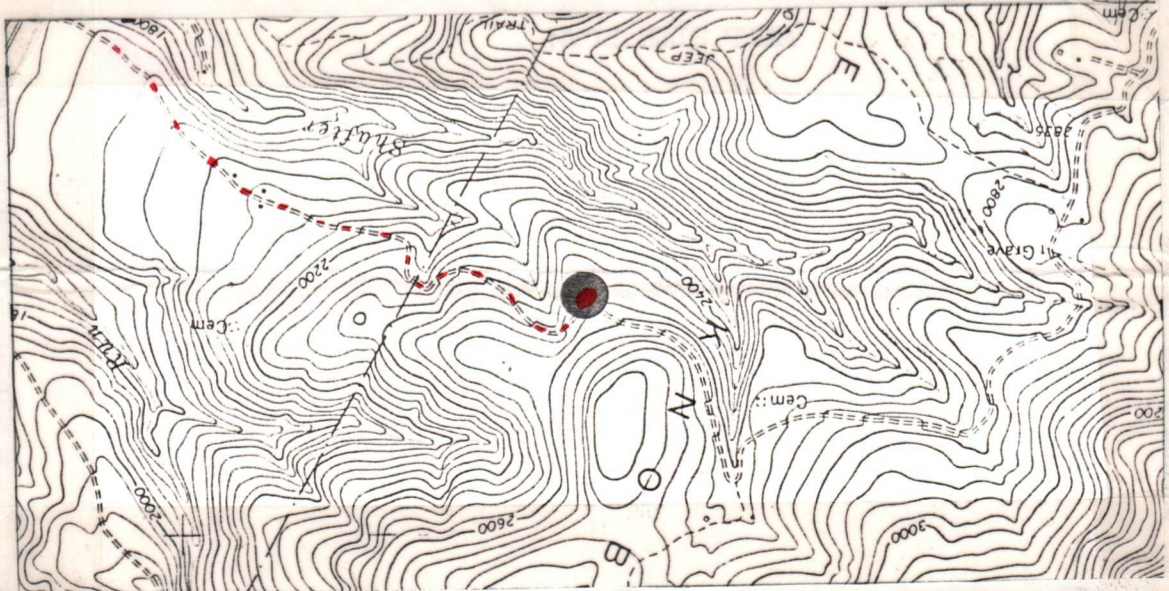
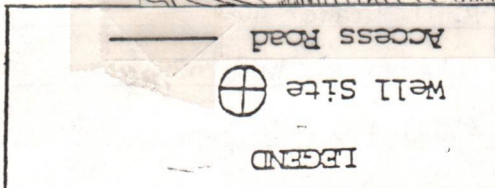
Lime	<u>3</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch	<u>Hay or Straw</u>	<u>2</u> Tons/acre
Seed*	<u>Ky - 31</u>	<u>30</u> lbs/acre
	<u>Birdsfoot</u>	<u>10</u> lbs/acre
	<u>Domestic Rye</u>	<u>10</u> lbs/acre

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

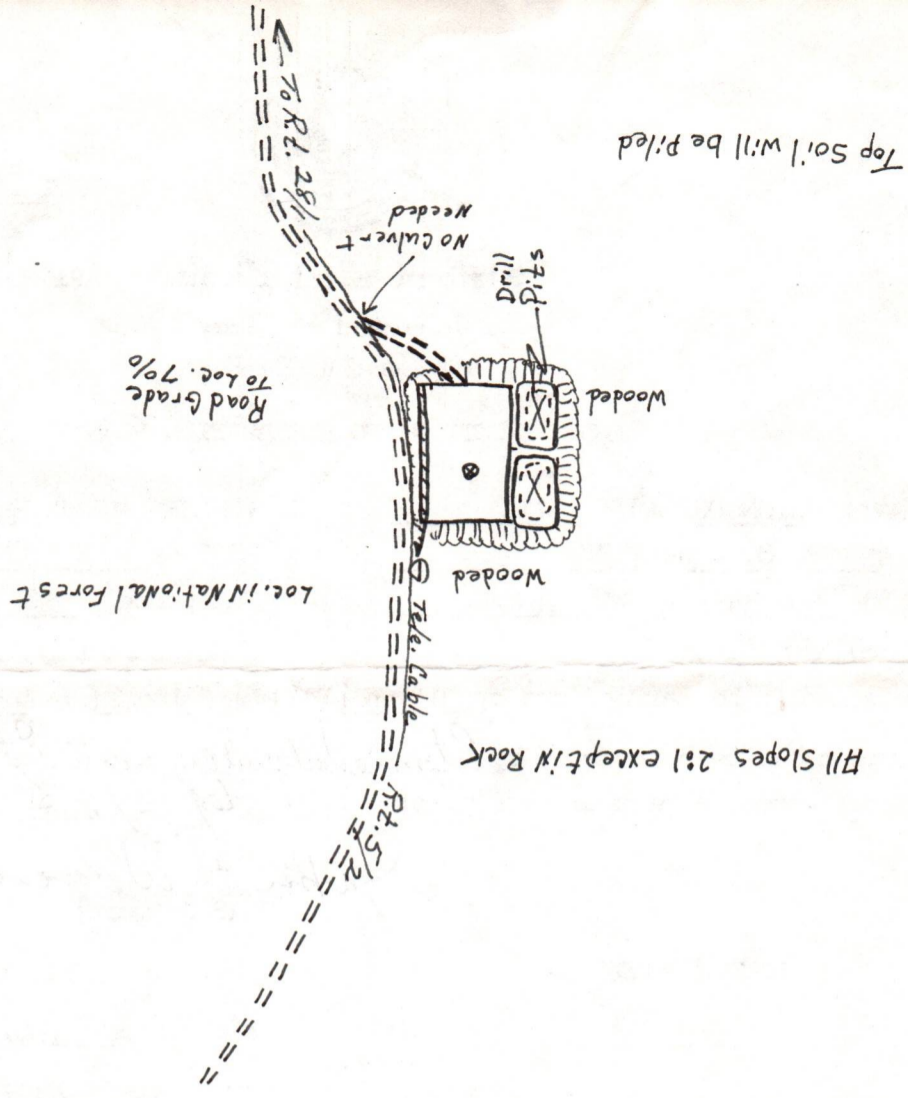
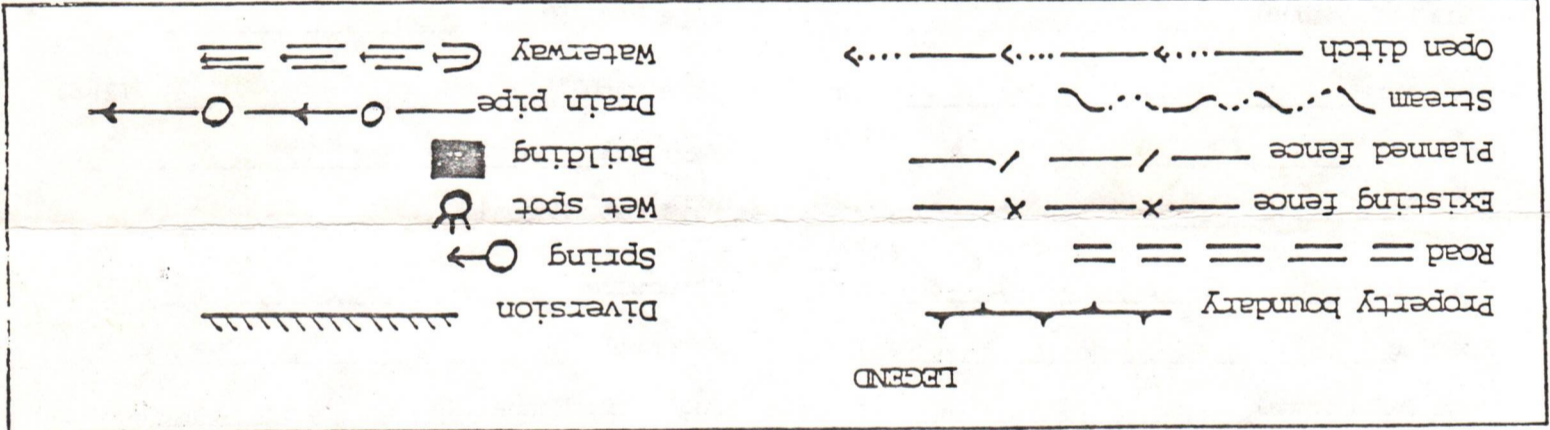
Lime according to pH. test
NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY Kenny O'Morgan
ADDRESS P. O. Drawer 40
Buckhannon, WV 26201
PHONE NO. (304) 472-4610

ATTACH OR PHOTOGRAPHY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE



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.



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

Form Approved
 Budget Bureau No. 42-R1140
 Office EASTERN STATES
 10099

OFFER TO LEASE AND LEASE FOR OIL AND GAS
 NONCOMPETITIVE ACQUIRED LANDS LEASE

Serial No. C. Hall 27 July 73

Fill in on typewriter
 or print plainly in ink
 and sign in ink.

The undersigned hereby offers to lease all or any of the lands described in item 2 that are available for lease, pursuant and subject to the terms and provisions of the Act of August 7, 1947 (61 Stat. 913; 30 U.S.C. 351-359), hereinafter referred to as the Act, and to all reasonable regulations of the Secretary of the Interior now or hereafter in force, when not inconsistent with any express and specific provisions herein, which are made a part hereof.

1. **AMOCO PRODUCTION COMPANY**
 (First Name, Middle Initial, Last Name)
 1625 K Street, N. W.
 (Number and Street)
 Washington, D. C. 20006
 (City, State, ZIP Code)

BUREAU OF LAND MANAGEMENT
 EASTERN STATES OFFICE
 RECEIVED
 SILVER SPRING, MD.
 1971 DEC 21 AM 10:00

2. Land requested: State **West Virginia** County **Pendleton** T. : R. :
 Meridian

SEE ATTACHMENT FOR LAND DESCRIPTION

U.S. interest if less than 100 percent

3. Land included in lease: State _____ County _____ T. : R. :
 Meridian _____

SEE ATTACHMENT FOR LAND DESCRIPTION

*Form 4-216 attached to lessee's copy of lease.

U.S. interest if less than 100 percent

Total area **2267.31** acres
 Net area for rental _____ acres
 Rental retained \$ **1164.00**

(Offeror does not fill in this block)

4. Amount remitted: Filing fee \$10, Rental \$ **1164.00**, Total \$ **1174.00**

5. Undersigned certifies as follows:
- (a) Offeror is a citizen of the United States. Yes No
 Corporation or other legal entity (specify what kind): **Corporation**
 - (b) Agency having administrative control over surface use of land, and unit or project of which land is a part are **U. S. Forest Service**
 - (c) Offeror's interests, direct and indirect, in acquired lands do not exceed 200,000 acres in oil and gas options or 246,080 chargeable acres in options, offers to lease and leases in the same State, or 300,000 chargeable acres in leases, offers to lease and options in each leasing district in Alaska.
 - (d) Offeror accepts as a part of this lease, to the extent applicable, the stipulations provided for in 43 CFR 3103.2.
 - (e) Offeror is 21 years of age or over (or if a corporation or other legal entity, is duly qualified to receive a lease as shown by statements made or referred to herein).
 - (f) Offeror has described all lands as provided for in 43 CFR 3212.1.
6. Offeror is is not the sole party in interest in this offer and lease, if issued. (If not the sole party in interest, statements should be filed as prescribed in Item 6 of the Special Instructions.)
7. Offeror's signature to this offer shall also constitute offeror's signature to, and acceptance of, this lease and any amendment thereto that may cover any land described in this offer open to lease application at the time the offer was filed but omitted from this lease for any reason, or signature to, or acceptance of, any separate lease for such land. The offeror further agrees that (a) this offer cannot be withdrawn, either in whole or in part, unless the withdrawal is received by the land office before this lease, an amendment to this lease, or a separate lease, whichever covers the land described in the withdrawal, has been signed in behalf of the United States, and (b) this offer and lease shall apply only to lands not within a known geologic structure of a producing oil or gas field.
8. If this lease form does not contain all of the terms and conditions of the lease form in effect at the date of filing, the offeror further agrees to be bound by the terms and conditions contained in that form.
9. It is hereby certified that the statements made herein are complete and correct to the best of offeror's knowledge and belief and are made in good faith.

Offeror duly executed this instrument this **20th** day of **December**, 19 **71**.

 (Lessee signature) **AMOCO PRODUCTION COMPANY**
 (Lessee signature)
 BY: **William E. Purley**
 (Attorney-in-fact)

This lease for the lands described in item 3 above is hereby issued, subject to the provisions of the offer and on the reverse side hereof.

THE UNITED STATES OF AMERICA
 By **General P. Hays**
 Chief, Division (Signing officer)
 Lands and Minerals
 (Title) JUN 26 1973
 (Date)

JUL 1 1973

Effective date of lease _____

THIS OFFER MAY BE REJECTED AND RETURNED TO THE OFFEROR AND WILL AFFORD THE OFFEROR NO PRIORITY IF IT IS NOT PROPERLY FILLED IN AND EXECUTED OR IF IT IS NOT ACCOMPANIED BY THE REQUIRED DOCUMENTS OR PAYMENTS.

18 U.S.C. 1001 makes it a crime for any person knowingly and willfully to make to any Department or Agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

This form may be reproduced provided that the copies are exact reproductions on one sheet of both sides of this official form, in accordance with the provisions of 43 CFR 3212.4.

522604

ATTACHMENT

10089

Item No. 2 of Amoco Production Company offer to lease dated December 20, 1971.

Pendleton County, West Virginia.

A parcel of land within the Monongahela National Forest comprising a portion of Tract No. 122, and described as follows:

Beginning at Corner No. 1 of said Tract 122, thence,

South 19 degrees 04' East	68.52	Chains to Corner 2		
South 75 degrees 43' East	2.19	"		
South 57 degrees 31' East	2.03	"		
South 79 degrees 22' East	2.29	"		
South 63 degrees 33' East	3.54	"		
South 43 degrees 56' East	3.47	"		
South 47 degrees 00' East	2.01	"		
South 82 degrees 38' East	1.95	"		
South 49 degrees 25' East	2.36	"		
South 52 degrees 52' East	4.21	"		
South 84 degrees 38' East	1.52	"		
South 59 degrees 47' East	3.22	"		
South 48 degrees 00' East	1.62	"	"	3
South 83 degrees 34' East	2.80	"	"	4
North 54 degrees 29' East	9.59	"	"	5
North 72 degrees 36' East	2.47	"	"	6
South 71 degrees 47' East	7.47	"	"	7
South 80 degrees 44' East	3.58	"	"	8
North 80 degrees 44' East	2.04	"		
South 59 degrees 04' East	2.78	"		
South 60 degrees 25' East	3.67	"		
North 83 degrees 05' East	2.73	"		
South 55 degrees 37' East	1.29	"		
South 74 degrees 24' East	2.96	"		
South 53 degrees 03' East	3.30	"		
South 47 degrees 21' East	2.28	"	"	9
North 76 degrees 09' East	42.55	"	"	10
North 11 degrees 39' East	53.10	"	"	11
South 85 degrees 07' East	17.29	"	"	12
South 45 degrees 34' East	2.14	"		
South 17 degrees 17' East	1.14	"		
South 5 degrees 21' East	1.73	"		
South 38 degrees 17' West	1.19	"		
South 9 degrees 23' East	1.74	"		
South 20 degrees 32' West	2.49	"		
South 27 degrees 07' East	2.39	"		
South 5 degrees 32' West	2.04	"		
South 40 degrees 49' East	1.88	"		
South 16 degrees 22' East	1.85	"		
South 40 degrees 09' East	1.07	"		
South 9 degrees 20' East	1.30	"		
South 33 degrees 54' East	7.43	"		
South 7 degrees 48' East	2.11	"		
South 7 degrees 07' West	4.83	Chains to Corner 13		
South 42 degrees 37' East	19.87	"	"	14
North 13 degrees 44' East	48.24	"	"	15
North 30 degrees 34' East	36.23	"	"	15 a
North 45 degrees 51' West	12.57	"	"	15 b
South 86 degrees 14' East	13.70	"	"	15 c
North 30 degrees 34' East	5.89	"	"	16
North 44 degrees 35' West	25.19	"	"	17
North 44 degrees 35' West	3.29	"	"	17 a
North 65 degrees 49' East	47.40	"	"	17 b
South 53 degrees 50' East	4.53	"	"	18
North 42 degrees 10' West	5.61	"	"	19
South 85 degrees 43' West	21.43	"	"	20
North 85 degrees 24' West	21.13	"	"	22
South 55 degrees 14' West	8.86	"	"	22 a
North 5 degrees 16' East	46.74	"	"	A point on the County Line
North 39 degrees 15' West	53.00	"	"	" " " " " "

South 46 degrees 35' West	9.37	Chains to Corner	15 of Exc. #2
South 27 degrees 05' West	16.04	" " "	14 of Exc. #2
South 10 degrees 17' West	42.83	" " "	13 of Exc. #2
South 16 degrees 27' West	5.68	" " "	12 of Exc. #2
South 79 degrees 13' West	27.92	" " "	11 of Exc. #2
North 38 degrees 39' West	20.36	" " "	10 of Exc. #2
North 45 degrees 01' East	11.37	" " "	9 of Exc. #2
North 80 degrees 30' West	49.36	" " "	8 of Exc. #2, which is on the exterior boundary of Tr. 122;
South 21 degrees 22' West	14.45	"	
South 54 degrees 18' West	10.15	"	
South 48 degrees 07' West	5.35	" " "	103
South 2 degrees 04' West	3.52	"	
South 00 degrees 34' West	4.74	"	
South 13 degrees 48' West	6.43	"	
South 25 degrees 46' West	4.65	"	
South 26 degrees 40' West	4.76	"	
South 45 degrees 11' West	4.16	"	
South 44 degrees 48' West	19.79	"	
South 9 degrees 00' West	5.90	"	
South 8 degrees 36' West	20.80	"	
South 30 degrees 30' West	3.33	"	
South 43 degrees 47' West	2.56	"	
South 31 degrees 07' West	1.93	"	
South 41 degrees 49' West	3.89	"	
South 53 degrees 33' West	3.98	"	
South 54 degrees 08' West	5.17	Chains to the point of beginning,	

Containing ^{3,054.37} 2,993.95 acres but excepting therefrom Exception No. 1, described below, containing 726.64 acres, leaving a net acreage of 2,267.31 acres.

EXCEPTION No. 1

^{2,327.75} Beginning at Corner 1, thence,

North 61 degrees 07' West	18.83	Chains to Corner	2
North 14 degrees 35' East	42.60	" " "	3
South 73 degrees 10' East	20.22	" " "	4
South 84 degrees 20' East	36.01	" " "	5
South 38 degrees 42' East	8.20	" " "	6
South 25 degrees 18' West	23.05	" " "	6 A
South 18 degrees 33' East	1.38	" " "	6 B
South 5 degrees 36' West	1.56	" " "	6 C
South 16 degrees 34' West	3.15	" " "	6 D
South 46 degrees 52' West	3.47	" " "	6 E
South 10 degrees 05' East	3.58	" " "	7
North 73 degrees 21' West	10.01	" " "	8
South 33 degrees 18' West	18.41	" " "	9
South 24 degrees 13' East	8.79	" " "	10
South 27 degrees 02' East	13.25	" " "	11
South 36 degrees 50' West	6.93	" " "	12
South 13 degrees 22' West	5.53	" " "	12 a
South 21 degrees 27' West	7.99	" " "	12 b
South 87 degrees 13' West	3.23	" " "	
South 77 degrees 31' West	2.78	" " "	13
South 36 degrees 50' West	24.54	" " "	14
South 65 degrees 54' West	9.19	" " "	15
North 48 degrees 18' West	16.90	" " "	16
South 89 degrees 24' West	15.78	" " "	17
South 71 degrees 18' East	15.33	" " "	18
South 3 degrees 06' East	18.06	" " "	19
North 69 degrees 11' West	37.68	" " "	20
North 28 degrees 05' East	10.98	" " "	21
North 42 degrees 34' West	12.93	" " "	22
North 27 degrees 33' East	19.82	" " "	23
South 71 degrees 06' East	16.37	" " "	24
North 66 degrees 34' East	2.04	" " "	25
North 3 degrees 31' East	55.21	" " "	26
South 48 degrees 14' East	14.48	" " "	27
South 57 degrees 38' East	16.38	" " "	28
North 26 degrees 36' East	3.99	Chains to the point of beginning,	

Containing 726.64 acres, be the same more or less.

Total acres 2267.31-

See Status Map No. 12

^{2,327.75} WEB

522604

00 00

State of West Virginia

In Pendleton County Commission Clerk's Office October 5, 1979

The foregoing Oil & Gas Lease deed of _____ was this day presented in said office and, with the certificate of acknowledgment thereto was admitted to record.

Teste:
Jerry K. Gordon Clerk

Filed and Recorded in the office of
the County Clerk of the County
Commission, of Pendleton County,
W. Va. on the 5th day of October
1979 in Deed Book No. 9
Page 479

Teste:
Jerry K. Gordon Clerk

10/5/79



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
CHARLESTON 25305

May 23, 1983

Theodore M. Streit, Administrator
Department of Mines
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47- 071 - 0010 TO DRILL DEEP WELL
COMPANY: UNION DRILLING, INC.
FARM: MONONGAHELA NATIONAL FOREST
COUNTY: PENDLETON DISTRICT: UNION

The application of the above company is APPROVED FOR ORISKANY COMPLETION
(APPROVED - DISAPPROVED)

Applicant HAS HAS - HAS NOT complied with the provisions of Chapter twenty-two, four-A (§22-4A), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission, as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; Yes*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, None*
3. *Provided a plat showing that the proposed locations is a distance of 682 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3,000 feet of the proposed location: None*

Very truly yours,

James B. Gehr (J.B.G.)
James B. Gehr
Commission Chairman

JBG/rf



IV-35
(Rev 8-81)

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AUG 24 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 22, 1984
Operator's
Well No. 1 - 1880
Farm USA #A1 - Confidential
API No. 47 - 071 - 0010

CONFIDENTIAL

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 x / Shallow ___ /)

LOCATION: Elevation: 2522' Watershed Shaffer Run
District: Union County Pendleton Quadrangle Hopeville

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 Monongahela Nat'l Forest

ADDRESS Jerry Bremer, Petersburg, WV 26847

MINERAL RIGHTS OWNER Same

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

Robert Stewart ADDRESS P.O. Box 345 Jane Lew, WV

PERMIT ISSUED 6/17/83 26378

DRILLING COMMENCED 6/23/83

DRILLING COMPLETED 8/29/83

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 Cond.			
13-10"	423'		
9 5/8	3017.6'	3017.6	1295 cf
8 5/8			
7			
5 1/2		9016.48	642 cf
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8600' feet

Depth of completed well 9047' feet Rotary x / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 8592' feet

Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 1235 mcf Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1850# psig (surface measurement) after 7 days 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)

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

Halliburton - 10/11/83 - Acid Treatment - 1500 gal. Acid
 Halliburton - 10/13/83 - Acid Treatment - 1500 gal. Acid
 Halliburton - 10/25/83 - Frac Treatment
 8745/47, 8759/64, 8789/92 - 47,500# sand and 775 Bbls. water

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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	2129	
Foreknobs Group			2129	2154	
Benson			3808	3835	
Scherr			3967	4015	
Elk			5885	5920	
Herrell Black Shale			7621	7688	
Chaneyville Limestone			7845	7856	
Mahantango Shale			7860	7898	
Upper Marcellus Shale			8097	8141	
Lower Marcellus Shale			8165	8220	
Tioga Metabentonite			8315	8330	
Needmore Shale			8360	8378	
Oriskany Sandstone			8512	8597	
Helderberg Sandstone			8742	8802	
				9047	T.D.

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Joseph C. Pettey

Date:

Joseph C. Pettey, Vice President of Production

8/22/84

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 ..., encountered in the drilling of a well."

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

RECEIVED

JUL 28 1983

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 071-0010

Oil or Gas Well 1-A-1880
(KIND)

Company <u>Union Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Buckhamner W. Va.</u>	Size			
Farm <u>U.S.A.</u>	16			Kind of Packer
Well No. <u>1-A-1880</u>	13			
District <u>Union</u> County <u>Pendleton</u>	10			Size of
Drilling commenced	8 1/4			
Drilling completed	6 5/8			Depth set
Date shot	5 3/16			
Initial open flow	3			Perf. top
Open flow after tubing	2			Perf. bottom
Volume	Liners Used			Perf. top
Rock pressure				Perf. bottom
Oil	CASING CEMENTED	SIZE	No. FT.	Date
Fresh water	NAME OF SERVICE COMPANY			
Salt water	COAL WAS ENCOUNTERED AT	FEET	INCHES	
		FEET	INCHES	FEET
		FEET	INCHES	FEET

Drillers' Names _____

Remarks: Drilling at 2485

July 26, 83
DATE

Phillip Jones 511
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 11-0010

Oil or Gas Well _____
(KIND)

Company <u>Union Drilling</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
Address _____	16			
Farm <u>W.S.A. #1</u>	13			
Well No. <u>1880</u>	10			Size of _____
District _____ County <u>Lincoln</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Checking reclamation work.
Showed Russell Beall where remain drilled Grant Co.
wells 0006, 0007, 0008, 0005.

July 31, 84
DATE

Philip Gray
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 071-10

Company Union Drilling
Address Buckhannon, W. Va.
Farm U.S.A.
Well No. 1-A-188D
District Union County Letcher
Drilling commenced _____
Drilling completed _____ Total depth 3050
Date shot _____ Depth of shot _____
Initial open flow _____ /10ths Water in _____ Inch
Open flow after tubing _____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10 <u>9 5/8</u>	<u>3013</u>	<u>3013</u>	Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
NAME OF SERVICE COMPANY _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

Aug 4 83
DATE

Phillip Tracy
DISTRICT WELL INSPECTOR



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

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OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 18, 1984

COMPANY Union Drilling, Inc.

PERMIT NO 071-0010

P. O. Drawer 40

FARM & WELL NO Monongahela Power #1-1880

Buckhannon, West Virginia 26201

DIST. & COUNTY Union/Pendleton

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 Phillip Troy

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 9, 1985

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STIPULATION FOR LANDS UNDER JURISDICTION OF DEPARTMENT OF AGRICULTURE *

The lands embraced in this lease or permit being under the jurisdiction of the Secretary of Agriculture, the lessee or permittee hereby agrees:

(1) To conduct all operations authorized by this lease or permit with due regard for good land management, not to cut or destroy timber without first obtaining permission from the authorized representative of the Secretary of Agriculture, and to pay for all such timber cut or destroyed at the rates prescribed by such representative; to avoid unnecessary damage to improvements, timber, crops, or other cover; unless otherwise authorized by the Secretary of Agriculture, not to drill any well, carry on operations, make excavations, construct tunnels, drill, or otherwise disturb the surface of the lands within 200 feet of any building standing on the lands and whenever required, in writing, by the authorized representative of the Secretary of Agriculture to fence or fill all sump holes, ditches, and other excavations, remove or cover all debris, and so far as reasonably possible, restore the surface of the lands to their former condition, including the removal of structures as and if required, and when required by such representative to bury all pipelines below plow depth.

(2) To do all in his power to prevent and suppress forest, brush, or grass fires on the lands and in their vicinity, and to require his employees, contractors, subcontractors, and employees of contractors or subcontractors to do likewise. Unless prevented by circumstances over which he has no control, the lessee or permittee shall place his employees, contractors, subcontractors, and employees of contractors and subcontractors employed on the lands at the disposal of any authorized officer of the Department of Agriculture for the purpose of fighting forest, brush, or grass fires on or originating on the lands or on adjacent areas or caused by the negligence of the lessee or permittee or his employees, contractors, subcontractors and employees of contractors and subcontractors, with the understanding that payment for such services shall be made at rates to be determined by the authorized representative of the Secretary of

Agriculture, which rates shall not be less than the current rates of pay prevailing in the vicinity for services of a similar character: *Provided*, that if the lessee or permittee, his employees, contractors, subcontractors, or employees of contractors or subcontractors, caused or could have prevented the origin or spread of said fire or fires, no payment shall be made for services so rendered.

During periods of serious fire danger to forest, brush, or grass, as may be specified by the authorized representative of the Secretary of Agriculture, the lessee or permittee shall prohibit smoking and the building of camp and lunch fires by his employees, contractors, subcontractors, and employees of contractors or subcontractors within the area involved except at established camps, and shall enforce this prohibition by all means within his power: *Provided*, that the authorized representative of the Secretary of Agriculture may designate safe places where, after all inflammable material has been cleared away, campfires may be built for the purpose of heating lunches and where, at the option of the lessee or permittee, smoking may be permitted.

The lessee or permittee shall not burn rubbish, trash, or other inflammable materials *except* with the consent of the authorized representative of the Secretary of Agriculture and shall not use explosives in such a manner as to scatter inflammable materials on the surface of the lands during the forest, brush, or grass fire season, *except* as authorized to do so or on areas approved by such representative.

The lessee or permittee shall build or construct such fire lines or do such clearing on the lands as the authorized representative of the Secretary of Agriculture decides is essential for forest, brush, and grass fire prevention which is or may be necessitated by the

* This form of stipulation may be used in connection with leases and permits issued under the Acts of February 25, 1920, as amended (30 U.S.C. 181 *et seq.*); August 7, 1947 (30 U.S.C. 351 *et seq.*); February 7, 1927, as amended (30 U.S.C. 281 *et seq.*); April 17, 1926, as amended (30 U.S.C. 271 *et seq.*); October 20, 1914, as

amended (48 U.S.C. 432 *et seq.*); June 28, 1944 (58 Stat 463 *et seq.*); September 1, 1949 (30 U.S.C. 192c); June 30, 1950 (16 U.S.C. 508b); or under the authority of any of the Acts cited in Section 402 of the President's Reorganization Plan No. 3 of 1946 (5 U.S.C. 133y-16, Note).

522604

exercise of the privileges authorized by this lease or permit, and shall maintain such fire tools at his headquarters or at the appropriate location on the lands as are deemed necessary by such representative.

(3) In the location, design, construction and maintenance of all authorized works, buildings, plants, waterways, roads, telegraph or telephone lines, pipelines, reservoirs, tanks, pumping stations, or other structures or clearance, the lessee or permittee shall do all things reasonably necessary to prevent or reduce to the fullest extent scarring and erosion of the lands, pollution of the water resources and any damage to the watershed. Where construction, operation, or maintenance of any of the facilities on or connected with this lease or permit causes damage to the watershed or pollution of the water resources, the lessee or permittee agrees to repair such damage and to take such corrective measures to prevent further pollution or damage to the watershed as are deemed necessary by the authorized representative of the Secretary of Agriculture.

(4) To pay the lessor or permitter or his tenant or the surface owner or his tenant, as the case may be, for any and all damage to or destruction of property caused by the lessee's or permittee's operations hereunder; to save and hold the lessor or permitter or the surface owner or their tenants harmless from all damage or claims for damage to persons or property resulting from the lessee's or permittee's operations under this lease or permit.

(5) To recognize existing uses and commitments, in the form of Department of Agriculture grazing, timber cutting, and special use permits, water developments, ditch, road, trail, pipeline, telephone line, and fence rights-of-way and other similar improvements, and to conduct his operations so as to interfere as little as possible with the rights and privileges granted by these permits or with other existing uses.

(6) To install and maintain cattle guards to prevent the passage of livestock in any openings made in fences by the lessee or permittee or his contractors to provide access to the lands covered by this lease or permit for automotive and other equipment.

(7) If lessee or permittee shall construct any camp on the lands, such camp shall be located at a place approved by the authorized representative of the Secretary of Agriculture, and such representative shall have authority to require that such camp be kept in a neat and sanitary condition.

(8) To comply with all the rules and regulations of the Secretary of Agriculture governing the national forests or other lands under his jurisdiction which are embraced in this lease or permit.

(9) Unless otherwise authorized, prior to the beginning of operations to appoint and maintain at all times during the term of this lease or permit a local agent upon whom may be served written orders or notices respecting matters contained in this stipulation, and to inform the authorized representative of the Secretary of Agriculture, in writing, of the name and address of such agent. If a substitute agent is appointed, the lessee or permittee shall immediately so inform the said representative.

(10) To address all matters relating to this stipulation to

at FOREST SUPERVISOR
U. S. FOREST SERVICE
ELKINS, WEST VIRGINIA 26241

who is the authorized representative of the Secretary of Agriculture, or to such other representative as may from time to time, be designated, provided that such designation shall be in writing and be delivered to the lessee or permittee or his agent.

(11) If all or any part of the lands lie within a municipal watershed, or are, in the opinion of the authorized representative of the Secretary of Agriculture, primarily valuable for watershed protection, the lessee or permittee shall reseed or otherwise restore the vegetative cover, as required by the authorized representative of the Secretary of Agriculture, for watershed protection and erosion prevention on any areas damaged because of the operation.

(Signature of Lessee)

OIL AND GAS LEASE STIPULATIONS

1. Notwithstanding any provision of this lease to the contrary, any drilling, construction or other operation on the leased lands that will disturb the surface thereof or otherwise affect the environment (hereinafter called "surface disturbing operation") conducted by lessee shall be subject, as set forth in this stipulation, to the prior approval of such operation by the Area Oil and Gas Supervisor in consultation with the appropriate surface management agency and to such reasonable conditions, not inconsistent with the purposes for which this lease is issued, as the Supervisor may require to protect the surface of the leased lands and the environment.

2. Prior to entry upon the land or the disturbance of the surface thereof for drilling or other purposes, the lessee shall submit for approval two copies of a map and explanation of the nature of the anticipated activity and surface disturbance to the Area Oil and Gas Supervisor, Eastern Area, U.S. Geological Survey, Washington, D. C. 20242;

and will also furnish a copy of such map and explanation to the appropriate surface management agency, U. S. Forest Service, Eastern Region #9, 633 West Wisconsin Avenue, Milwaukee, Wisconsin 53203.

An environmental analysis will be made by the Geological Survey in consultation with the appropriate surface management agency for the purpose of insuring proper protection of the surface, the natural resources, the environment, existing improvements, and for assuring timely reclamation of disturbed lands.

3. Upon completion of said environmental analysis, the Area Oil and Gas Supervisor shall notify lessee of the conditions, if any, to which the proposed surface disturbing operations will be subject. Said conditions may relate to any of the following:

- (a) The location of drilling or other exploratory or developmental operations or the manner in which they are to be conducted;
- (b) The types of vehicles that may be used and the areas in which they may be used; and
- (c) The manner or location in which improvements such as roads, buildings, pipelines or other improvements are to be constructed.

BUREAU OF LAND MANAGEMENT
EASTERN STATES OFFICE
1973 JUL 12 AM 11:00
RECEIVED
SILVER SPRING, MD.

Signed this 4th day of June, 1973

Amoco Production Company

C. N. Menninger
Lessee's Signature

522604

C. N. MENNINGER
Attorney-in-Fact

U. S. Forest Service

Serial No. FS 10039
West Virginia
Amoco Production Co.

Monongahela

National Forest

Applicant

SPECIAL STIPULATIONS

The (PERMITTEE) (lessee) is notified and agrees:

All any and all operations authorized by this (lease) (permit) shall be done in accordance with a plan which must be submitted in triplicate and approved in writing by the District Ranger at Petersburg, W. Va., zip 26247, before such operations are begun. The operating plan will contain all such provisions as the District Ranger may reasonably determine are needed to maintain proper administration of the lands and surface resources. Where appropriate, depending upon the location and type of operation, the District Ranger may require the plan to contain provisions concerning the following matters:

1. The location and extent of areas to be occupied during operations.
2. The methods to be used in the operations.
3. The size and type of equipment to be used in the operations.
4. The capacity, character, standards of construction and size of all structures and facilities to be built.
5. The location and size of areas upon which vegetation will be destroyed or soil will be laid bare.
6. The steps which will be taken to prevent and control soil erosion.
7. The steps which will be taken to prevent water pollution.
8. The character, amount, and time of use of explosives or fire, including safety precautions which will be taken during their use.
9. The program proposed for rehabilitation and revegetation of disturbed lands.

If later operations require departures from or additions to the approved plan, revision or amendments will be submitted in triplicate, with statements of the reasons for changes or additions, to the District Ranger for approval. Any and all operations conducted in advance of approval of an original, revised, or amended operating plan, or which are not in accord with an approved plan, constitute violations of the terms of this ~~PERMIT~~ (permit).

Amoco Production Company

C. N. Menninger
~~PERMITTEE~~ (Lessee)

C. N. MENNINGER
Attorney-in-Fact

522604



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Eastern States Office, Alexandria, VA

SERIAL No.: ES 10039 (Amoco Lease No. 522604)

and hereby designates

NAME: Union Drilling, Inc.

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

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

All lands described in said lease.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

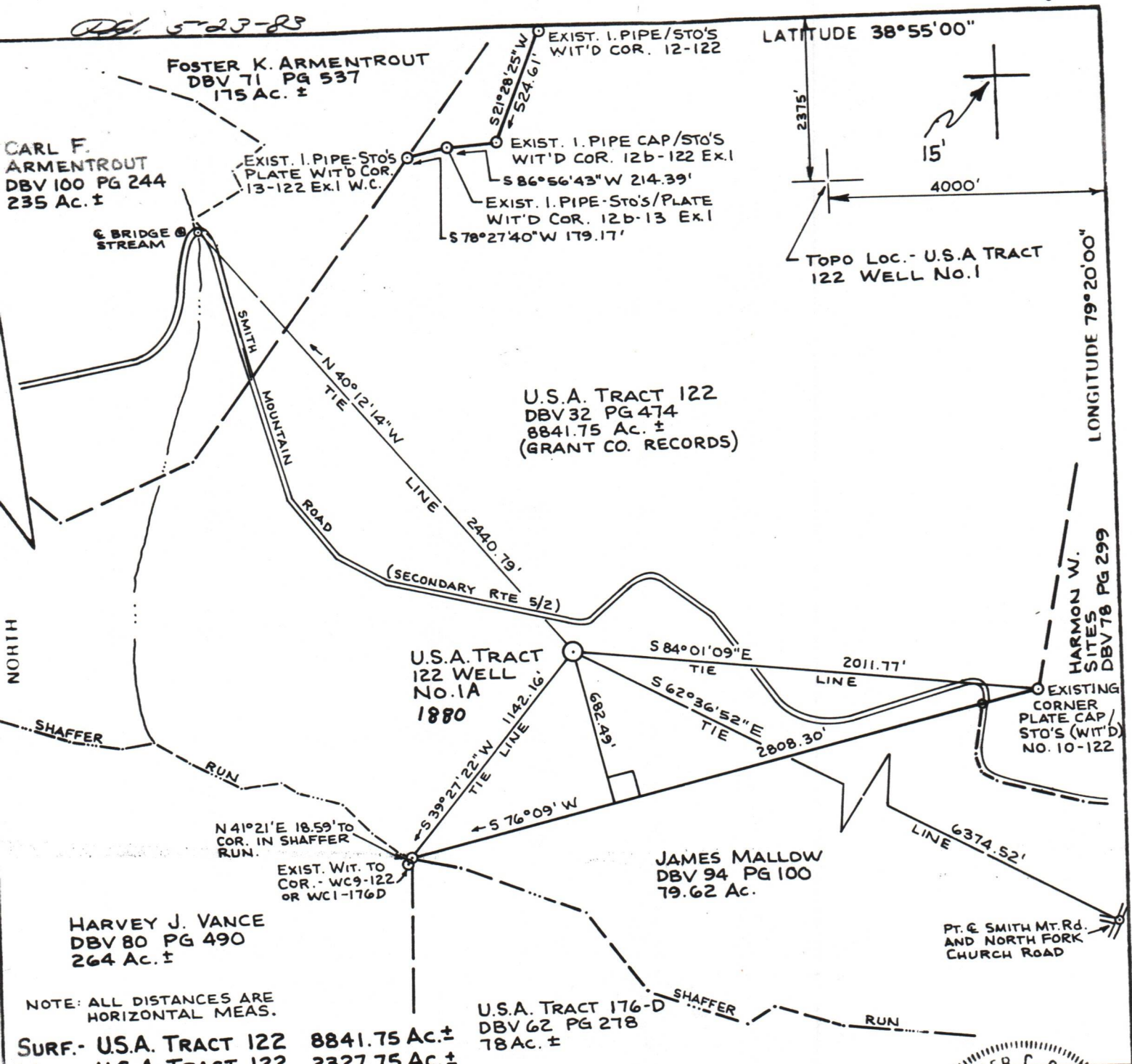
AMOCO PRODUCTION COMPANY

BY: W. Chappell
(Signature of lessee)
ATTORNEY • IN • FACT

5-3-83

(Date)

P. O. Box 50879, New Orleans, LA 70150
(Address)

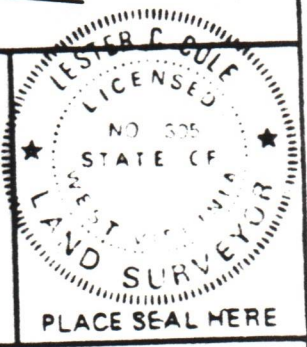


NOTE: ALL DISTANCES ARE HORIZONTAL MEAS.

SURF. - U.S.A. TRACT 122 8841.75 Ac. ±
 MIN. - U.S.A. TRACT 122 2327.75 Ac. ±

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1/10280
 PROVEN SOURCE OF ELEVATION BM-1691 approx. 5000 S.E. of location

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) Lester C. Cole
 R.P.E. _____ L.L.S. 305



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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE MARCH 9, 19 83
 OPERATOR'S WELL NO. 1A-1880
 API WELL NO. _____
47 - 071 - 0010
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION ELEVATION 2522 WATER SHED Shaffer Run
 DISTRICT Union COUNTY Pendleton
 QUADRANGLE Hopeville 7.5'
 SURFACE OWNER U.S.A. ACREAGE 8841.75 more or less
 OIL & GAS ROYALTY OWNER U.S.A. LEASE ACREAGE 2327.75 more or less
 LEASE NO. 522604
 PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8600'
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH C. VANZANT JR.
 ADDRESS P.O. DRAWER 40 BUCKHANNON W. VA. 26201