

) Date:	May 18	, 1983
2) Operator's	1A = 1880	

		State	County	Perm
3)	API Well No.	47	QCA 071	0010
2)	Operator's Well No	1A -	1880	

DRILLING CON	TRACTOR	•				STANI STANIS		State	County Permi
Union Dril	ling,	Inc.	D	EPAR		TATE OF WEST VII T OF MINES, OIL A		U.S.A.	#1A (1880)
P. O. Draw	er 40			OIL	AND (	GAS WELL PERMIT	APPLICATION		asm "BOLL" (Ab
Buckhannon	, WV 2	26201		A TOTAL STREET		s garding notice			TIAL WELL)
4) WELL TYPE	E: A Oil	ed till i				ruter bakirkein			essi Juanita
									_/ Shallow/)
5) LOCATION	· Fleva	tion:	2522			Watershed:	Shaffer Run		
	Distr	ict: UI	nion	- Control	4 <u> </u>	_ County: Per	ndleton	Quadrangle:	Hopeville 7.5'
6) WELL OPE	RATOR_	Union	Drilli	ing,	Inc	• 11	) DESIGNATED A	AGENT Joseph	C. Vanzant, Jr. Drawer 40
Address	Agenta Person	Buckh:	nnon	14/1/	2620	Diadi ke nedi ke	Address _	P. O.	Drawer 40
7) OIL & GAS		DUCKIR	illion,	VV V	2020	July at the sa	a traine and a		nnon, WV 26201
ROYALTY	OWNER _	Monong	gahe1a	Nat:	iona	l Forest 12	) COAL OPERAT		lewienes Wile (2
Address	1 3114 . 101	Jerry	Bremen	r, D	istr	ict Ranger	Address _	el se akonimia	ta Sopiali (a
			burg,	WV	268	47	vist Carrier	navioe Books day	Tabaatea <b>ga</b> r
ct 122Acreage	2327.					13	) COAL OWNER	S) WITH DECLAR	ATION ON RECORD:
8) SURFACE C							Name NO Ma	arketable Co	al Seams
Address		erry l	ourg, V	DIS	2684'	ct Ranger	Address _		
Acreage	8841.		ourg, v	V V	2004		-	18) 11 10	COUNT
9) FIELD SALI				197			Name	11/2	
Address			nined a	at th	nis 1	time	Address _	11/2	1000
11111000							) COAL LESSEE	WITH DECLAPAT	TON ON PECOPD
10) OIL & GAS	INSPECTO	OR TO BE	NOTIFIE	D				WITH DECEARAT	ION ON RECORD.
Name _Rol			(884-7	7782	)		Address	OI	& GAS DIVISION
Address	P. C	Box	345	Bosh	ad to	fillette California	Lotatopa.	AT THE PLANT OF THE PARTY OF TH	THE STATE OF THE S
	Jane	Lew,	WV 26	378	HMC .	You know still to		DEL	PROTOTORNAL
15) PROPOSED		Drill	XX	Drill o	deeper_	/ Redrill_	/ Fractu	re or stimulate	XX /
		Plug off	old form	ation_		/ Perforate ne	ew formation	distribution of	ungichana (d.f.
		Other ph	ysical char	nge in	well (sp	ecify)			
16) GEOLOGIC								The state of the s	randen 1120 - Ferr - 1
17) Estimate	d depth of c	completed	well,	80	000	feet			
							alt, ?		
				110	ле	Is coal	being mined in the ar	ea? Yes	/ No_XX
20) CASING AN	的能力是持续		1284-14		55,8	PERSON DO Increase		DESTRUCTION DESIGNATION	becomos 495
CASING OR TUBING TYPE		SPI	ECIFICATION	NS		FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TOBINO TIPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	company of
Conductor	13 3/8	H-40	48#	X		200'	200'	250 sks.	Kinds NEAT
Fresh water	100 mile					Maril of the second	and the second second		ASSAULT TO THE STATE OF THE STA
Coal		N-80	431/2#	X		OR	distribution and	and and the same	Sizes
Intermediate		k-36	36#	X		2500'	2500'	575 sks.	CTS NEAT
Production		N-80	20#	X		OR			Depths set
Tubing	5 1/2	N-80	17#	X		OI.	8600	450 sks.	or as Reg b
Liners						The second	Sent Harris State	Variation No.	Perforations: Rule 15
									Top Bottom
							13/4	and the same of the same	- 12 ATT - 19 A
1) EVED ACTIO	N DIGUE	Control	10 he	l in H	Larry	Lucitosabilia	and the first of the second	House by The Land Control	hinsings II - (ct
Check and pro			e H yellor	μάπος	J00_11				Multiply ba
				HO58.3	ethor	attrioscott mai c	no la go alare	A disedupase	aurus) eile fairus
THE PARTY OF THE P	uirement o	f Code 22	-4-1-(c) (1)	throu	gh (4).	ontract or contracts b (See reverse side for	y which I hold the ri	gnt to extract oil or	gas.
2) ROYALTY P			mes is a f		900	A VI LITHER STUDY	specifics.)		
Is the right to	extract, pro	duce or m	arket the o	il or ga	s based	upon a lease or other	continuing contract	or contracts providir	g for flat well royalty or ar
similar provis	on for con	pensation	to the ow	ner of	the oil	or gas in place which	ch is not inherently r	elated to the volume	e of oil or gas so extracted
produced or n					YC (1)	A and to ver	A 001 1 1 1 1	regionalistic des constitution	
23) Required Cop	ies (See rev	erse side.)	tional is ne	eeded.		answer is Yes, you m	ay use Affidavit For	m IV-60.	
24) Copies of this	Permit Ap	plication	and the en	closed	plat an	d reclamation plan h	ave been mailed by	registered mail or de	livered by hand to the abo
named coal o	perator, co	al owner(s	), and coal	lessee	on or	before the day of the	mailing or delivery	of this Permit Appli	cation to the Department
Mines at Cha	reston, We	st Virginia	1.	0			A	JIKI	Parameter
Notary:	arow	X.	Star	lug	ike	Jagorison ser	Signed: Dem	- The Duck	Golloi enti
My Commission	Expires	05/22	/89	00.01	THEF	and 105 4-50	Its. Joseph	C. Pettey, V	vice President o

Commissioned as Sharon L. Kelley

OFFICE USE ONLY

Permit number 47-071-0010

Date

Production

OFFICE USE ONLY

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. 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.)

proper district oil	and gas inspector 24 hours before a	actual permitted work has com	menced.)
Permit expires	June 17, 1984	unless dr	illing is commenced prior to that date and prosecuted with due diligence.
Bond:	Agent: Plat:	Casing Fee	7/1/20
100	10 1	199 990	Administrator, Office of Oil and Gas

#### 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 then 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
- 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).

Date:

- 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.
- 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.

WAL A MALECTO

The undersigned coal operator mined this proposed well location. If added to the mine map. The undersign operator has complied with all applications.	a mine map exists vied has no objection	which covers the are to the work propos	ea of the well locationsed to be done at the	on, the well lo	cation has been ovided, the well
consulting the later and search to the section	no para la serie de la calificia de la califica de la calificia de la califici	de contract de		Ti and	serios annes
		1991 - 1 gale	Platfiller	New Performance	theory.

Its

IV-9 (Rev 8-81)



DATE	4-	25-	83	
			10.15	

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WELL NO. 1880

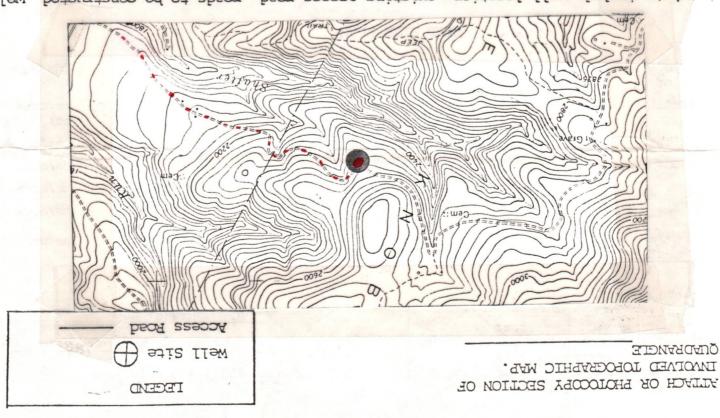
## State of Mest Nirginia

API NO. 47 - Pendlotan

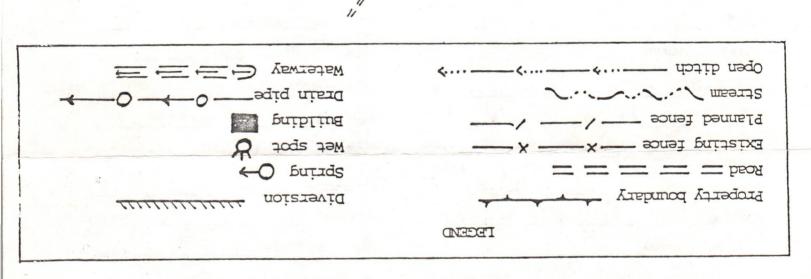
Bepartment of Mines Gil und Gas Bivision

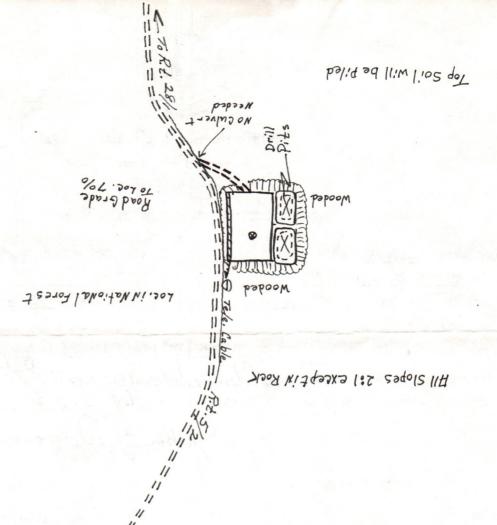
#### CONSTRUCTION AND RECLAMATION PLAN

CONTRACTOR DELICING INC		CICIDITION ACTIVITY I	
COMPANY NAME UNION DRILLING, INC.	וט	Address Union Drilling, Inc.	_
Address P. O. Drawer 40	The second	P. O. Drawer 40	-
Telephone Buckhannon, WV 26201		The state of the s	-
LANDOWNER U.S. A # A /	L : - D : 1	SOIL CONS. DISTRICT Potomar Valley S.	
^	. 1	ling, Inc, (Joseph C. Pettey, VP) (Agent	.)
This plan has been reviewed by	onnevalle	Soil Comervatur SD. All corrections	
and additions become a part of this pla	an:	6/13/83 Date	
	0.0		
	Jum	(SOD Agenty)	
ACCESS DOAD	0	LOCAMION	
ACCESS ROAD		LOCATION	
Structure	(A)	Structure Diverson Ditch (	1)
Spacing		Material Earther	
Page Ref. Manual		Page Ref. Manual	
Structure	(B)	Structure	(2)
Spacing		Material	
Page Ref. Manual		Page Ref. Manual	
Structure	(C)	Structure	(3)
	(0)	Material Material	(2)
Page Ref. Manual		Page Ref. Manual	
All structures should be inspected commercial timber is to be cut and said and removed from the site before	stacked and	i all brush and small timber to be	
I	REVEGETATIO	ON .	
Treatment Area I		Treatment Area II	
Lime 3 Tons/acr	ma	Lime 3 Tons/acm	_
or correct to pH 6.5		or correct to pH 6.5	E
Fertilizer 600 lbs/acre	e	Fertilizer 600 lbs/acre	
(10-20-20 or equivalent)		(10-20-20 or equivalent)	
Mulch Hayor Straw 2 Tons/acc	The state of the s	Mulch Hayor Straw 2 Tons/acr	
Seed* Ky - 31 30 lbs/acre		Seed*	
Birdsfoot 10 lbs/acre		Birdsfoot 10 lbs/acre	
	3	Domestic Rye 10 lbs/acre	
*Inoculate all legumes such as vetch Inoculate with 3% recommended amount.	h, trefoil	and clovers with the proper bacterium.	
Lime according to P.H. test	FILLY PRE	TARED BY Wanny O' Mougan	_
cooperation to protect new		ADDRESS P. O. Drawer 40	1
seedling for one growing season.		Buckhannon, WV 26201	-
Attach separate sheets as necessary for comments.	P:	EONE NO. (304) 472-4610	



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





Budget Bureau No. 42-R1140.

RTMENT OF THE INTE

BUREAU OF LAND MANAGEMENT

Office AS

(Mry . 1969).

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

Serial No. C. Hall

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. Mask AMOCO PRODUCTION COMPANY (First Name, Middle Initial, Last Name) 1625 K Street, N. W. (Number and Street) Washington, D. C. 20006 STA L (City, State, ZIP Code) Meridian : R ö County Pendleton T. 2. Land requested: State 記式 West Virginia Z SEE ATTACHMENT FOR LAND DESCRIPTION U.S. interest if less than 100 percent 2267.31 Total area acres Meridian County 3. Land included in lease: State SEE ATTACHMENT FOR LAND DESCRIPTION \*Form 4-218 attached to lessee's copy of lease. U.S. interest if less than 100 percent Total area ...... 2327.75 ..... acres Rental retained \$ 1164.00 Net area for rental (Offeror does not fill in this block) 4. Amount remitted: Filing fee \$10, Rental \$ 1764:.00 , Total \$ 11.74.00 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 nas described all lands as provided for in 43 CFR 3212.1.
6. Offeror is in 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 acceptance of this lease. 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. 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 AMOCO PRODUCTION COMPANY (Lessee signature) (Lessee signature) (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

JUL 1 1973

By Chief. Chief, Division(Staning officer)
Lands and Minerals

JUN 2 6 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.

c. I. The leases agrees:

) Bonds.—(1) To file any bond required by this lease and the lations and until such bond is filed not to enter on the land used. (2) To maintain any bond furnished by the leases as a consumance of this lease. (3) To furnish a bond in a sum double the per acre annual rental, but not less than \$1.000 nor more than the inclusion of any part of the leased land furnish prior to him to be a superior of the lease of an enter of a producing oil or gas het all times therefore are required to bond in the penal sum of \$10.000 with approved corporate indepent of United States bonds as surery therefore, condition plance with the terms of this lease, unless a bond in that a dy being maintained or unless such a bond furnished by an telescape is accepted. (5) Unit's general lease bond is filed to maintain a bond in the penal sum of not less than \$1,000 not here has \$1,000 not here ha

is of all parties in interest, including the United States.

) Wella.—(1) To drill and produce all wells necessary to protect the d land from draining by sells on lands not the property of the lessor, note of the lessor and of the United States and at a lower royalty rate, or as to which royalties and less of the lessor and line of any part of such drilling and production, with the season of the Director of the Geological Survey, to compensate the lessor all self-month determined by said Director; (2) at the election of the lessor will and produce other wells in conformity with any system of welling are producted other wells in conformity with any system of well may be received by the determined by applicable by by the Secretary of the Interior; and (3) promptly after due notice riting to drill and produce such other wells as the Secretary of the notice riting to drill and produce such other wells as the Secretary of the notice riting to drill and produce such other wells as the Secretary of the notice riting to drill and produce such other wells as the Secretary of the notice riting to drill and produce such other wells as the Secretary of the more may reasonably recurrent in order that the lesson are made and the secretary of the order was a secretary of the notice.

ntals.-To pay the lessor in advance an annual rental at the

(a) If the lands are wholly outside the known geologic structure of a producing oil or gas field;
(b) For each lease year a rental of \$0 cents per acre or fraction of an acre.
(b) If the lands are wholly or partly within the known geologic structure of a producing oil or gas field;
(c) If the lands are wholly or partly within the known geologic structure of a producing oil or gas field;
(d) Beginning with the first lease year after 30 days' notice that all or part of the land is included in such a structure and for each year thereafter, prior to a discovery of oil or gas on the lands leased. If per acre or fraction of an acre.
(ii) If this lease is committed to an approved computation oil or gas and contains a generalized for the respective lease years in subgrangers and periodic for the respective lease years in subgrangers in a of this section, shall apply to the acreage not within a participating area.

the acreage not within a participating area.

In repailty.—Commencing with the lease year beginning on or incovery on the leased land, to pay the leasor in live of rental, me royalty of 31 per acre or fraction thereof at the expiration of year, or the difference between the actual royalty paid during if less than 31 per acre, and the prescribed minimum revailty nare: Prouded, That if this lease is unitised, the minimum all be payable only on the participating acreage and rental ayable on the nonparticipating acreage as provided in subparal (iii) above.

on production.—To pay the lessor 12½ percent royalty on the removed or sold from the lessed lands computed in accordance Oil and Gas Operating Regulations (10 CFR 221).

- in set on any one operating negatives are orn 2217.

  (2) It is expressly agreed that the Secretary of the Interior tablish reasonable minimum values for purposes of computing any or all oil, gas, natural gasoline, and other products obtained a due consideration being given to the highest price paid for a prayment of production of like quality in the same field, to the ceived by the leaser, to posted prices, and to other relevant matter benever appropriate, after notice and opportunity to be heard.
- When paid in value, such royalties on production shall be due and lie monthly on the last day of the calendar month next following the iar month in which produced. When paid in amount of production rowsity products shall be delivered in merchantable condition on the next where produced without cast to lessor, unless otherwise, the parties hereto, at such times and in such but in no case by the as reasonably may be required ally oil or other products in storage to the which produced and the such times and in such out in no case shall the be required du of the calendar month next following the calendar in the such calendar month next following the calendar in the calendar control is such that the produced nor be responsible or held liable for the loss or ection of royalty oil or other products in storage from causes over the has no control.

- (if) Contracts for disposed of products.—To file with the Oil and sperious of the Geological Survey not later than 38 days after retting data thereof any contract, or evidence of other arrangem r the sale or disposal of oil, gas, natural gasoline, and other product leased land: Provided, That nothing in any such contract or orangement shall be construed as modifying any of the provisions of sale, including, but not limited to, provisions relating to gas waking regaily in kind, and the method of computing royaltie does along the provision wallstip of the provision of the provision walls of the provision of the p

This offer should be typewritten or printed plainly in ink and must be sed in ink.

1. This ofer anomal on typewriten or printed plainty in the arm since to signed in fish.

2. This form is to be used in offering to lease noncompetitively lands acquired by the United States which are subject to lease under the Act of August 7, 1947, for the purpose of drilling, maining, extracting, removing, and disposing of oil and gas deposite screep belium, and in which the LCFR States has a part of the lands to which this Act does not apply. This form should not be used in offering to lease lands on a known geologic structure of a producing oil and gas field, or public domain lands, or acquired lands in which the Government has a future interest only.

2. Offers to lease may be made by individuals 21 years of age or over, or by least grantlen or trustee of muners and incompetents who are citizens of the United States, and by corporations, partnerships or associations.

ren copies of this offer must be prepared and filed in the pros See the regulation 43 CFR 1821.2-1 for the location of such m "filing" means the actual receipt of the offer.

the form submitted, any of the offer, is open to oil and gas ing when the offer is field but is omitted from the lease for any reason reafter becomes available for leasing to the offerer, the original lease amended to include the omitted land unless, before the invance of endment on Form \$120.4, the land offer receives the withdrawal or as to such land or an election to receive a separate lease to be dated refared with 43 CPR \$122.5, in which case such separate lease to be dated from the land of an election to receive a separate lease to be dated refared with 43 CPR \$122.5, in which case such separate lease will be If the lease is amended the rental thereof the separate lease will be as the such as the separate lease to the separate lease will be a separate lease will be a separate lease to the separate lease will be a separate lease to the separate lease will be a separate lease will be separate lease with the separate lease will be separate lease.

inspection by the public until the expiration of the lease.

(1) Inspection.—To keep open at all reasonable times for the inspection of any duly authorised officer of the Department, the leased premises at all wells, improvements, machinery, and fixtures thereon and all book accounts, maps and records relative to operations and surveys or investigations on the leased lands or under the lease. All information obtain pursuant to any such inspection, upon the request of the leases, shall be open to inspection by the public until the expiration of the lease.

on open to inspection by the public until the emiration of the lease.

(3) Dilipence, presention of wests, health and selety of workness. To exercise reasonable diligence in drilling and producing the wells bere provided for unless consent to suspend operations temporarily is grantly the leason; to carry on all operations in accordance with approvemethods and practice as provided in the Oil and Gas Operating Regulation having due regard for the prevention of waste of oil or gas or damage deposits or formations containing oil, gas, or water or to coal measure of their privarel deposits for conservation of gas engages for the measure of the privarel deposits for conservation of gas engages for the measure

control.

(k) Taxes and wages, freedom of purchase.—To pay when due lawfully assertand and levied under the laws of the State or to States upon improvements, oil and gas produced from the lands or other rights, property, or assets of the lesser: to accord all and employees complete freedom of purchase, and to pay all workmen and employees at least twice each month in the lawful the United States.

workmen and employers at least twice each month in the lawful money of the United States.

(1) Equal apportunity closus.—During the performance of this contract, the leaser agrees as follows:

(1) The leaser will not discriminate against any employer or applicant for employment because of race, erect, color, or national origin. The leaser will take affirmative action to ensure the policants are employed, and that employeed are national origin. Such action shall include, but not be limited to the following; employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticable. The leaser agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

setting forth the provisions of this nondiscrimination clause.

(2) The leasee will, in all solicitations or advertisements for emplaced by or on behalf of the leasee, state that all qualified applica receive consideration for employment without regard to race, creed, or autional origin.

(3) The leasee will send to each labor union or representative of with which he has a collective bargaining agreement or other confunderstanding, a notice, to be provided by the agency contracting advising the labor union or workers' representative of the leasee's ments under Section 202 of Executive Order No. 11246 of September 2 and shall post copies of the notice in conspicuous places avail employree and applicants for employment.

(4) The leasee will comply with all provisions of Executive Orders of the Secretary of Labor.

(5) The lease will furnish all information and reports required.

employees and applicants for employment.

(4) The lessee will comply with all provisions of Executive Order No. 11246 of September 24, 1985, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The lessee will furnish all information and reports required by Executive Order No. 11246 of September 24, 1985, and by the rules, regulations, and orders of the Secretary of Labor.

(6) The lessee will furnish all information and reports required by Executive Order No. 11246 of September 24, 1985, and by the rules, regulations and orders of the Secretary of Labor for purposes of investigation to saccrision and the Secretary of Labor for purposes of investigation to saccrision compliance with such rules, regulations and orders.

(6) In the event of the lessee's noncompliance with the nondiscrimination clauses of this contract may be ensured and orders.

(7) The insert and the contract of the contract may be ensured and remedies invoked as provided in Executive Order No. 11246 of September 24, 1985, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1985, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The lessee will include the provisions of paragraphs (1) through (1) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor is used pursuant to Section 104 of Executive Order No. 11246 of September 24, 1985, no that a will be binding upon each subcontract or purchase order as a will order the section of the Contracting and the provisions including another of noncompliance: Provided, Ascreer, That in the event the lessee becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the lessee interests of the United States to enter into such litigation to protect the majority of the such as a means of enforcing such provisions including intere

buildings, and other improvements on the lessed land.

(a) Protection of the surface, natural resources, and improvement lesses agrees to take such reasonable stem as may be needed to coperations, including operation of operating plints on the lessed green promunnecensarily; (1) causing or contributing to soil croin or day any forage and timber growth on the lessed lands or on Federal lands in the vicinity; (2) polluting air and water; (3) day crops, including forage, timber, or improvements of a surface owner damaging improvements whether owned by the United States or permittees or lessess; or (5) destroying, damaging, or removing characteristic productions of the surface owner of the surface owner of the surface of

Taking of repolities.—All rights pursuant to Section bruary 25, 1920 (41 Stat. 451; 30 U.S.C. 192), to take or in value of production.

on the reverse hereof is an undivious irrational interval. So the terms and conditions shall apply:

(a) Rentals and royalties payable on account of each such tract shall not be amp proportion to the rentals and royalties provided in Section hereof as the undivided fractional interest of the United States in the oil gas underlying such tract is to the full fee simple interval.

(b) If, during the period this lease is in effect, the lease own on our other undivided fractional interests in oil and gas under such tract, the right of the leasor to extract belium in accordance section 3(d) of this lease shall extend to all gas produced on the bas such ownership or lease.

Sec. 5. Dulling and producing restrictiona.—It is agreed that the raprospecting and developing, and the quantity and rate of production the lands overed by this lease, shall be subject to control in the public est by the Secretary of the Interior, and in the exercise of his judge the Secretary may take into consideration, among other thinse. Fellaws, State laws, and regulations issued thereunder, or law intervals among operators regulations issued thereunder, or law intervals among operators regulations in an extensive the constraints of the most of the modify, from time to time, the rate of prospecting and development and offer from time to time, the rate of prospecting and development and offer from the control of the condity, from time to time, the rate of prospecting and development and offer from the condity, from time to time, the rate of prospecting and development and the condity.

unitiation, the Socretary of the Interior, of any persons con-or Federal officer or agency so authorized in the unit-modify, from time to time, the rate of prospecting and devel quantity and rate of production from the lands covered by it. Sec. 4. Surrender and termination of lease.—The lesses this lease or any legal subdivision thereof by filing in the per-active of the second of the second of the lesses this lease or any legal subdivision thereof by filing in the action of the lesses to the continued obligation of the lesses to make payment of all accrued rentals and crystics and to on the land to be retinquished in condition for supersion, in accordance with the applicable lease terms and regulation

In accordance when are applicance rease sering and regionalise.

SEC. T. Removal of materials, etc., on termination of lease—Up expiration of this lease, or the earlier termination thereof pursuant least preveding section, the fease of removing from the premises all many properties of the lease of the 90-day period or such extension thereof as may be granted by

SEC. 8. Proceedings in case of default. If the lessee shall not rown any of the provisions of the Act or the regulations thereunder, lesse, or defaulta in the performance or observance of any of hereof (except that of payment of annual rental which results in matic termination of the lease), and such defaurion of 30 days after the performance of the performance of 30 days after the Secretary of the Interior in accordance will of the Act of February 25, 1920 (41 Stat. 450; 30 U.S.C. 188), as

Sec. 19. Unleaved interest.—It is also further agreed the or Delegate to. Congress, or Resident Commissioner, after appointment, or either before or after he has qualified an timeaner in office, and that no officer, agent, or employee of the Interior, except as provided in 43 CFE 7.4(4) [11], to any share or part in this lesse or derive any benefit that from; and the provisions of Section 3741 of the Revised United States, as amended (41 U.S.C. 221, and Sections 4).

required of an individual.

If the offeror is a corporation it must submit a strollowing information: The State is which a life in authorized to hold oil and gas leases and that the oil is authorized to act on behalf of the corporation in centage of voting stock and of all the stock offer having addresses outside of the United States. Afthough 19 percent, additional information may be require the lease is leased or when production is obtained centage of the stock is held by alvers of the stock will be delived. If 10 percent or more of the stock is held by alvers of the entry will be denied. If 10 percent or more of the stock is held by alvers of the stock is held by alvers

())

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:

68.52 Chains to Corner 2

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

```
South 19 degrees 04' East
South 75 degrees 43' East
                             2.19
                                      11
South 57 degrees 31' East
                              2.03
South 79 degrees 22' East
                             2.29
3.54
South 63 degrees 33' East
South 48 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
                              3.22
South 59 degrees 47' East
South 48 degrees 00' East 1.62
                                      11
South 83 degrees 34' East
                                                 11
                                      11
                                           ..
                             2.80
                                      11
North 54 degrees 29' East
                                                     5
                             9.59
                                      .
                                                 = 1
                                                     6
North 72 degrees 36' East
                            2.47
                                                 11
                              7.47
                                      11
                                                     7
South 71 degrees 47' East
South 80 degrees 44' East
                              3.58
                                                     8
North 80 degrees 44' East
                                     11
                              2.04
South 59 degrees 04' East
                                      11
                              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 241 East
                              2.96
South 53 degrees 03' East
                              3.30
South 47 degrees 21' East
                                      11
                             2.28
North 76 degrees 09' East
                                           ..
                                                 11
                                      11
                                                     10
                           42.55
                                                 11
                                      =
                                                     11
North 11 degrees 39' East
                             53.10
South 85 degrees 07' East 17.29
                                      **
                                      11
South 45 degrees 34 East
                              2.14
South 17 degrees 17' East
                              1.14
South 5 degrees 21' East
                             1.73
                                      11
South 38 degrees 17' West
                                      11
                            1.19
South 9 degrees 23' East
                              1.74
                            2.49
South 20 degrees 32' West
                                      11
South 27 degrees 07' East
                                      11
                              2.39
South 5 degrees 32' West
South 40 degrees 49' East
                              2.04
                                      . 11
                              1.88
South 16 degrees 22' East
                                      11
                             1.85
                                       11
South 40 degrees 09' East
                              1.07
                                       11
South 9 degrees 20' East
                              1.30.
South 33 degrees 54' East
                                       ::
                              7.43
South 7 degrees 48' East
South 7 degrees 07' West
                                      ..
                              2.11
                              4.83 Chains to Corner 13
South 42 degrees 37' East
                                      11
                             19.87
                                            11
                                                     14
                                      11
                                            117
                                                 11
North 13 degrees 44' East
                                                     15
                             43.24
                                      11
                                           11
                                                 11
North 30 degrees 34' East
                                                     15 a
                             36.23
North 45 degrees 51 West
                                           11
                                      11
                                                 11
                                                     15 b
                             12.57
South 86 degrees 14' East
                             13.70 "
                                                     15 c
North 30 degrees 34' East
                                            11
                                                 11
                                                     16
                             5.89
North 44 degrees 35' West 25.19
                                                , 11
                                          - 11
                                                     17
                                      11
                                            11
                                                 11
North 44 degrees 35' West
                              3.29
                                                     17 a
North 65 degrees 49' East
                                       11
                                            11
                                                 11
                             47.40
                                                     17 b
South 53 degrees 50' East
                                       =
                                            11
                                                 ..
                              4.53
                                                     18
North 42 degrees 10' West
                                            11
                                                 11
                                       11
                              5.61
                                                     19
South 85 degrees 43' West:
                                       11
                                            .
                                                 11
                              21.43
                                                     20
                                       11
                                            11
                                                 .
North 85 degrees 24' West
                              21.13
                                                     22
                                               . 11
 South 55 degrees 14' West
                                       11
                                            **
                                                     22 a
                              8.86
North 5 degrees 16' East
                                      11
                                                 A point on the County Line
                                            **
                              46.74
North 39 degrees 15' West
                              53.00
```

```
deniment (cont.)
                                                                         · FACTOR STATES
   South 46 degrees 35' West 9.37 Chains to Corner 15 of Exc. #27 C C 9
South 27 degrees 05' West 16.04 " " 14 of Exc. #2
    South 10 degrees 17' West 42.83
                                                   11
                                               11
                                                        .
                                                              13 of Exc. #2
                                  5.68
                                              , 11
                                                    11 .
                                                        **
    South 16 degrees 27' West
                                                              12 of Exc. #2
                                                              11 of Exc. #2
10 of Exc. #2
                                               11
                                                    11
    South 79 degrees 13' West 27.92
                                             , п
                                                  11
    North 38 degrees 39' West
North 45 degrees 01' East
                                  20.36
                                               11
                                                    11
                                                         11
                                                             9 of Exc. #2
                                  11.37
                                                   . 11
                                                         11
    North 80 degrees 30' West
                                               11
                                                              8 of Exc. #2, which
                                  49.36
                                                               is on the exterior
                                               11
                                                              boundary of Tr. 122,
    South 21 degrees 22' West
                                  14.45
    South 54 degrees 18' West 10.15
                                               11
                                 5.35
                                                               103
    South 43 degrees 07' West
                                              . 11
    South 2 degrees 04' West
                                   3:52
    South 00 degrees 34' West
                                               11
                                   4.74
                                               11
    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
                                19.79
    South 44 degrees 48' West
    South 9 degrees 00' West
South 8 degrees 36' West
                                   5.90
                                  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 2,993.95 acres but excepting therefrom Exception No. 1, described below, containing 726.64 acres, leaving a net acreege of 2,267.31 acres.

EXCEPTION No. 1
Beginning at Corner 1, thence,

```
North 61 degrees 07 West
                            18.83 Chains to Corner 2
North 14 degrees 35' East 42.60 "
                                     11
South 73 degrees 10' East
                            20.22
South 84 degrees 20' East 36.01 "
South 38 degrees 42' East 3.20 "
                             3.20
                                                11
                                           ..
                                                11
South 25 degrees 18' West
                          23.05
                             1.38 "
                                           11
                                                .
South 18 degrees 33' East
                                           11
                                                11
                                      11
                                                   6 C
South 5 degrees 36' West 1.56
South 16 degrees 34' West 3.15
                                      11 .
                                           11
                                                11
                             3.47
                                     11
                                                11
South 46 degrees 52' West
                                                    6 E
South 10 degrees 05' East
                                                    7
                             3.58
North 73 degrees 21' West
                                      11 . 11
                                                11
                                                    8
                            10.01
South 33 degrees 18' West
                                           11
                                                **
                                     11
                            18.41
                                          . 11
                                                11
                                      11
                                                    10
South 24 degrees 13' East
                             8.79
                                          11
                                     11
                                                    11
South 27 degrees 02' East
                            13.25
                                     11
                                           11
South 36 degrees 50' West
                                                    12
                            6.93
South 13 degrees 22' West
                                      11
                                           11
                                                11
                                                    12.a
                             5.53
                                     11
South 21 degrees 27' West
                                                    12 b
                             7.99
South 87 degrees 13' West 3.23
South 77 degrees 31' West 2.78
                                         . .
                                      **
                                                ..
                                                    13
                                   . 11
                                                11
South 36 degrees 50' West
                                          11
                           24.54
                                      11
South 65 degrees 54' West
                             9.19
                                                    15
                                      11
                                           11
                                                11
                                                    16
North 48 degrees 18' West 16.90
South 89 degrees 24' West
                                      11
                                           11
                                                    17
                             15.78
                                    11
                                           11
                                                    18
South 71 degrees 18' East
                             15.33
                                          . 11
South 3 degrees 06' East
                                     11
                             18.06
                                                11
North 69 degrees 11' West
                            37.68
                                           11
                                      11
North 28 degrees 05' East
                                                    21
                             10.98
                                      11
                                           11
North 42 degrees 34' West
                            12.93
                                   11
North 27 degrees 33' East
                                           ..
                                                11
                             19.82
South 71 degrees 06' East
                             16.37
North 66 degrees 34' East
                             2.04 . "
                                           11
                                                11
                                                    25
                                                ==
                                      11
                                           11
North 3 degrees 31' East
                             55.21
                                                     26
                             14.48
                                           11 .
                                                11
South 48 degrees 14' East
                                                     27
                             16.38 " "
                                         11
                                                11
South 57 degrees 38' East
                             3.99 Chains to the point of beginning,
North 26 degrees 36' East
       Containing 726.64 acres, be the same more or less.
```

Total acres 2267.31-1

# State of West Virginia

In Pendleton County Commission Clerk's Office Ontober 5 1979

The foregoing deed of \_\_\_\_\_ was this day presented in said office and, with the certificate of acknowledgment thereto was admitted to record.

Teste:

The fire that we will

the County Clerk of the County
Commission, of Pendleton County
W. Va. on the

Page 10 in Swad Book No.

Teste:

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: APPLI	CATION FOR PERMIT #47- 071 - 0010 TO DRILL DEEP WELL
	COMPANY:_	UNION DRILLING, INC.
	FARM:	MONONGAHELA NATIONAL FOREST
	COUNTY: _	PENDLETON DISTRICT: UNION
The	application	n of the above company is APPROVED FOR ORISKANY COMPLETION
		(APPROVED - DISAPPROVED)
		- HAS NOT
four (19)	r-A (§22-4A 31), as ame	), of the Code of West Virginia, nineteen hundred and thirty-one nded, 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

Commission Chairman



## (Rev 8-DECEIVED) AUG 2 4 1984

OIL & GAS DIVISION DEPT. OF MINES

### State of Mest Airginia Bepartment of Mines

Wil und Cas Division

Date	August 22, 1984	
Operato		
Well No	1 - 1880	_
Farm U	SA #Al - Confidental	
API No.	47 - 071 - 0010	

WELL OPERATOR'S REPORT

CONFIDENTAL

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 2522' Watershed	Shaffer I	Run		
District: Union County Pend	dleton	Quadrangle	e Hopevi	lle
COMPANY				
COMPANY Union Drilling, Inc.				Cement
ADDRESS P.O.Drawer 40, Buckhannon, WV 26201 DESIGNATED AGENT Joseph C.Vanzant, Jr.	Casing	Used in		fill up
ADDRESS P.O.Drawer 40, Buckhannon, WV 26201	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER Monongahela Nat'l Forest	Size 20-16		and feater	
ADDRESS Jerry Bremer, Petersburg, WV 26847	Cond.		rojanjeje	
MINERAL RIGHTS OWNER Same	13-10"	423'	9 (82)	
ADDRESS	9 5/8	3017.6'	3017.6	1295 cf
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8			
Robert Stewart ADDRESS P.O.Box 345 Jane Lew, WV	7			
PERMIT ISSUED 6/17/83 26378	5 1/2		9016.48	642 cf
DRILLING COMMENCED 6/23/83	4 1/2			
DRILLING COMPLETED 8/29/83	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON	1			1
GEOLOGICAL TARGET FORMATION Oriskany		Dept	h 8600	eetfeet
Depth of completed well 9047' feet	Rotary x	/ Cable	Tools_	
Water strata depth: Freshfeet;				
Coal seam depths: none	Is coal	being mine	ed in the	area? no
OPEN FLOW DATA				
Producing formation Oriskany	Pay	zone dept	h 8592	feet
Gas: Initial open flow show Mcf/d				
Final open flow 1235 mcf Mcf/d				
Time of open flow between init				
Static rock pressure 1850# psig(surface		_		
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	h	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
			hou	and the second s

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

#### WELL LOC

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
			and sait water, coar, our and ga
Sand & Shale	0	2129	
Foreknobs Group	2129	2154	
Benson	3808	3835	
Scherr	3967	4015	AND THE PARTY OF T
Elk	5885	5920	
Herrell Black Shale	7621	7688	district of the second second
Chaneysville Limestone	7845	7856	
Mahantango Shale	7860	7898	
Upper Marcellus Shale	8097	8141	
Lower Marcellus Shale	8165	8220	The state of the s
Tioga Metabentonite	8315	8330	
Needmore Shale	8360	8378	
Oriskany Sandstone	8512	8597	and the second s
Helderberg Sandstone	8742	8802	
		9047	T.D.
	13.5		
State of the state	-		
		and the second	
	Bear Land		
	Paragraph 2.3		
	11/2/2017		
		and the last	
			The state of the s
	1		

(Attach separate sheets as necessary)

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 well, encountered in the drilling of a well."

DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION



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

Kind of Packer Size of Depth set
Size of
_ Depth set
,
Perf. top
Perf. bottom
Perf. bottom
No. FTDat
FEETINCHES
FEETINCHES
FEETINCHES

July 36,83

DISTRICT WELL INSPECTOR

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

OMPANY	MDISTRICTCOUNTY						
ARM							
illing Material Used							
· · · · · · · · · · · · · · · · · · ·							
Liner Loc	ation	Amount	Packer	Location			
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED SIZE LOS			
					-		
	12						
	. B - 2						
				-			
		27					
rillers' Names							
1							
emarks:							
	I hereby certify I						

DISTRICT WELL INSPECTOR

## DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



DISTRICT WELL INSPECTOR

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

Permit No. 11-00/0	mit No. 11-0010				Oil or Gas Well			
Company Ilmin	Duthis	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKE	ERS		
		Size			Last fare:	eM basis T		
Address	,	16		Autheo	Kind of Pack	er		
Farm Jost, H		13		19 hi 930 diya	7371.257713	eriangent co		
Well No. /880		_ 10			Size of			
District	County English	81/4						
Drilling commenced		65/8			Depth set	-		
		5 3/16						
Drilling completed	Total depth	3			Perf. top			
Date shot	Depth of shot	2			Perf. bottom.			
Initial open flow	/10ths Water inIn	ch Liners Used			Perf. top			
Open flow after tubing	/10ths Merc. inIn	ch			Perf. bottom.	- The State of the		
Volume	Cu. I	Ft. CASING CEME	NTED	SIZE	No. FT	Date		
Rock pressure	lbs,h	rs. NAME OF SEF	RVICE COMPA	ANY				
Oil	bbls., 1st 24 h	rs. COAL WAS EN	COUNTERED	AT	_FEET	_INCHES		
Fresh water	feetfe	eetFEET_	INCI	HES	_FEET	_INCHES		
Salt water	feetfe	eet FEET	INCI	HES	_FEET	_INCHES		
Drillers' Names						kemaria		
- //	seclarativ ur sell Beall wh		L:M	l lha	Ana			
wells oool	, 0007, 0008, 00.	05,	en believe I VI	West yes tool I	y co.			

Form 26 2/16/82

#### STATE OF WEST VIRGINIA

#### **DEPARTMENT OF MINES**

#### OIL AND GAS WELLS DIVISION

#### **INSPECTOR'S PLUGGING REPORT**

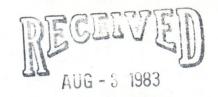
COMPANY	v 1/0		ADI	DRESS			251 4 791
ARM							er er bege
	1.07.9 ped					1, 135	
illing Material Used							
iner Loc	cation	Amo	unt	Packer	Loc	cation	
PLUGS USED A	ND DEPTH PLACED		507	BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONS	TRUCTION-LOCATION	RECOVERED	SIZE	LOST
29 - 630 - 1							
					1		
mat Tovel			(A)	2000			15. 17.1
Page 1							
The second secon			gay and displayed the second of the second o				
2000					10	an engage englage (1979)	TWO SAFT
	en arregia de en cultura cultura de cultura		and the second second	Mar is talk		35.	is religion
	78 117 2		N Page 10	8			
	ANYONA	The state of the s	7) 316 527				
The section of the se				.205			are and a
11000 2227	TA OMERIC	Minus e de la	17.11	ent 18 var (886)			
Orillers' Names	2317741						
Jrillers Names							
11077	2(11)10	17.70	7	100	draugh		
Remarks:							
	I hereby certify I visi	ted the above	well on this	s date.			
DATE							

Permit No.07/-10

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



#### INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
OPERT OF MINES

Company Union	Drilling	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Bucks	aman W.la.	Size			
Farm UlSa.		16			Kind of Packer
Well No. 1-1-1	188 D	13_95/8	3013	3013	2:
District Ilmson	County Fenchetten	81/4			Size of
Drilling commenced		6%			Depth set
Drilling completed	Total depth 3050	5 3/16			
Date shot	Depth of shot	2			Perf. top
Initial open flow	/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing	/10ths Merc. inInch				Perf. bottom
Volume	Cu. Ft.	CASING CEME	NTED	SIZE	No. FTDate
lock pressure	lbshrs.	NAME OF SER	VICE COMPA	ANY	
)il	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
resh water	feetfeet	FEET_	INCI	IES	FEETINCHES
Salt water	feetfeet	FEET_	INCH	IES	FEETINCHES
Orillers' Names					
lemarks:					

aug 1,83

Allo Jan 571
DISTRICT WELL INSPECTOR

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

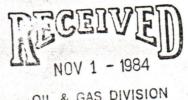
					1 140	
COMPANY			ADDRESS		490	3 1,500
'ARM	DISTRICTCOUNTY					
Filling Material Used						
iner Loc	cation	Amount	Packer	Location	75	
	AND DEPTH PLACED	30 10	BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED SIZE L		
					1000	
		* * * * * * * * * * * * * * * * * * *				
		A service of the service of				
				1		
- An-						
						Bell A. Alemani, A.
rillers' Names						
emarks:						
DATE	I hereby certify I v	isited the abov	e well on this date.			

DISTRICT WELL INSPECTOR



# State of West Virginia Department of Mines Gil and Gas Division Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 18, 1984



OIL & GAS DIVISION
DEPT. OF MINES

	September 18, 1	.984	의 보다 이 경험에 가다면 가는 것이 되었다면 나는 생각이다.
COMPANY	Union Drilling, Inc.	PERMIT NO _	071-0010
P. O.	Drawer 40	FARM & WELL	NO Monongahela Power #1-188
Buckha	nnon, West Virginia 26201	DIST. & COU	NTY Union/Pendleton
			IN COMPLIANCE
RULE	DESCRIPTION		YES NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Wa	aste	
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 & Gatherin	g Pipelines	
16.01	Well Records on Site	B - France _	
16.02	Well Records Filed	· · · · · · · · · · · · · · · · · · ·	
7.05	Identification Markings	-	
		-	
I HAVE I	NSPECTED THE ABOVE CAPTIONED WELL AND R	ECOMMEND THAT	TT BE RELEASED.
		/	1 1 DE RELEASED.
		SIGNED 4	illes Irocy
		DATE	0-30-84
Your wel	1 record was received and reclamation r	equirements a	approved. In accordance
with Cha	pter 22, Article 4, Section 2, the abov	e well will r	emain under bond
coverage	for the life of the well.		
		7-1	1 VIO
		Administrato	r-Oil & Gas Division
		January	9, 1985
		D	ATE

THE REPORT OF THE PERSON AND THE PER

## 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, employees subcontractors, and contractors, 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

es ententies that he pour

<sup>\*</sup>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).

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 Where construction, operation, or the watershed. 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 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

FOREST SUPERVISOR

at 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)

1

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## O THE AND CLIS LEASE STIPULATION

1. Notwithstanding any provision of this lease to the contrary, any dr. ling, construction or other operation on the leased lands that will direct the surface thereof or otherwise affect the environment (hereinafter called "surface disturbing operation") conducted by lessee shall be abject, as set forth in this tipulation, to the prior approval of such operation by the Area Oil and Cas Supervisor in consultation with 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 crilling 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, USLI Teological Survey, Washington, D. C. 20242;

and will clso 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 Sur-rvisor shall notify lesses 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 emploratory 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 improved ments are to be constructed.

Signed this 4th day of Jule, 1973

Amoco Production Company

522604

C. N. MENNINGER Attorney - in - Fact

Lesseo's Strature

R9-2820-2 (Rev. 11/1/63)

U. S. Forest Service

Serial No. FS 10039

West Virginia
Amoco Production Co.

Monongahala

National Forest

Applicant

#### SPECIAL STIPULATIONS

\_\_e (TEET (USE) (lessee) is notified and agrees:

ony and all operations authorized by this (lease) (permit) shall be done in the care with a plan which must be submitted in triplicate and approved in Armoung by the District Ranger at Petersburg, W. Va. , zip 26347
The operating plan will contain all such pro-Visions as the District Ranger may reasonably determine are needed to maintain proper administration of the lands and surface resources. Where appropriate, departing 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 lends.

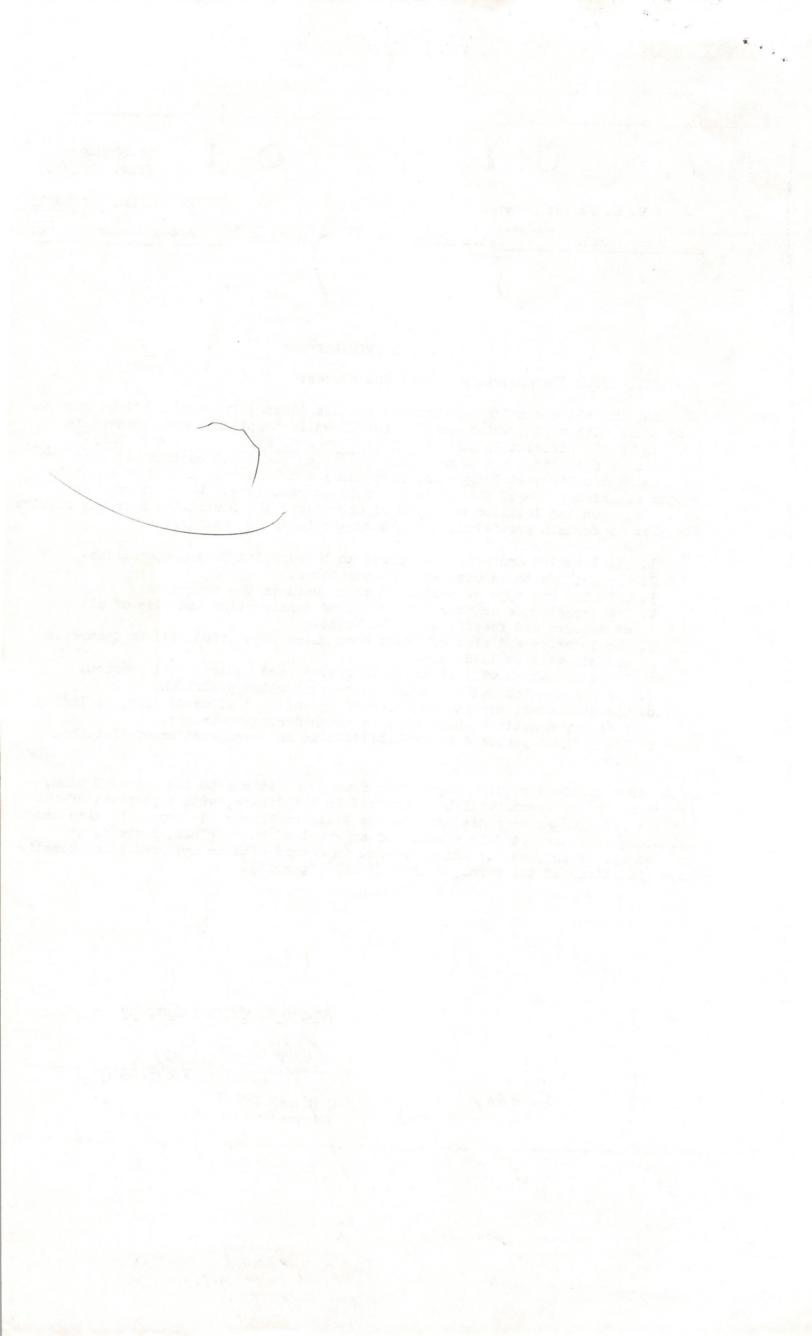
If later operations require departures from or additions to the approved plan, remaining or amendments will be submitted in triplicate, with statements of the remaining of changes or additions, to the District Ranger for approval. Any and all operations conducted in advance of approval of an original,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

Amoco Production Company

(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

ATTORNEY IN FACT

5-3-83

P. O. Box 50879, New Orleans, LA 70150

B.S. GOVERNMENT PRINTING OFFICE : 1978 0 - 277-141

