FORM IV-2 (Obverse) (08-78) Date: June 5 , 19 81

Operator's

Well No. 4 - 1702 - UC

API Well No. 47 - 083 - 0487

STATE OF WEST VIRGINIA

State County Permit

DEPARTM	MENT OF MINES, OIL AND GAS DIVISION Harry McMullan, Jr. Est. #4
	OIL AND GAS WELL PERMIT (1702-UC)
WELL TYPE: Oil/ Gas	<u>x</u> /
(If "Gas", Production	x/ Underground storage/ Deep/ Shallowx _/)
LOCATION: Elevation: 2922!	Watershed: Cold Run of Middle Fork River
District: Middle Fork	County: Randolph Quadrangle: Cassity
WELL OPERATOR UNION DRILLING,	INC. DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. Drawer 40	Address P. O. Drawer 40
Buckhannon, WV	26201 Buckhannon, WV 26201
OIL & GAS ROYALTY OWNER Harry McMullan,	Jr., Est. COAL OPERATOR
	The state of the s
Washington, NC	
-12 Acreage 461	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Harry McMullan, Jr	AMAX COAL COMPANY Address 105 S. Meridian St
Address SAME	Address 105 S. Meridian St.
	Indianapolis, Ind. 46225
Acreage	JUN - 9 1981
FIELD SALE (IF MADE) TO:	Address
Address Not Determined at this	OIL & GAS DIVISION S time T. OF MINES
	COAL LESSEE WITH DECLARATION ON RECORD:
OIL & GAS INSPECTOR TO BE NOTIFIED	Name Internation Coal
Name Robert Stewart (884-7782)	Attn. Commol D. Masser Div F
Address P. O. Box 345	Greenbirer Valley Building 119 West Washington St.
Jane Lew, WV 26378	Lewisburg, WV 26901
	UDT 1 #1205
other contract	rate for oil or gas purposes at the above location under a deed/ leaseX
Total La William D. 1111	, 19 <u>80</u> , to the undersigned well operator from Harry McMullan, Jr.,
(IF said deed, lease, or other contract has been	recorded:)
Recorded on <u>Feb. 4</u> , 19 <u>81</u> , in the	e office of the Clerk of the County Commission of Randolph County, West
West, in <u>Deed</u> Book 335 at	page 614 A permit is requested as 6.11
PROPOSED WORK: Drill x / Drill deepe	er/ Redrill/ Fracture or stimulate x/
Plug off old formation	Perforate new formation/
Other physical change in	well (enesify)
omer physical change in	well (specify)
—planned as shown on the	he work order on the reverse side hereof.
nake by Code \$22-4-3 must be filed with the Dens	d coal lessee are hereby notified that any objection they wish to make or are required to
Department.	artment of Mines within fifteen (15) days after the receipt of this Application by the
Copies of this Permit Application and the enclosed	d plat and reclamation plan have been mailed by registered mail or delivered by hand to
he above named coal operator, coal owner(s), and o	coal lessee on or before the day of the mailing or delivery of this Permit Application to
he Department of Mines at Charleston, West Vir	rginia.
PLEASE SUBMIT COPIES OF ALL	

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLAMKET BOND

03/15/2024

UNION DRILLING, INC.
Well Operator

By Joseph C. Felly

Joseph C. Pettey, Production Manager

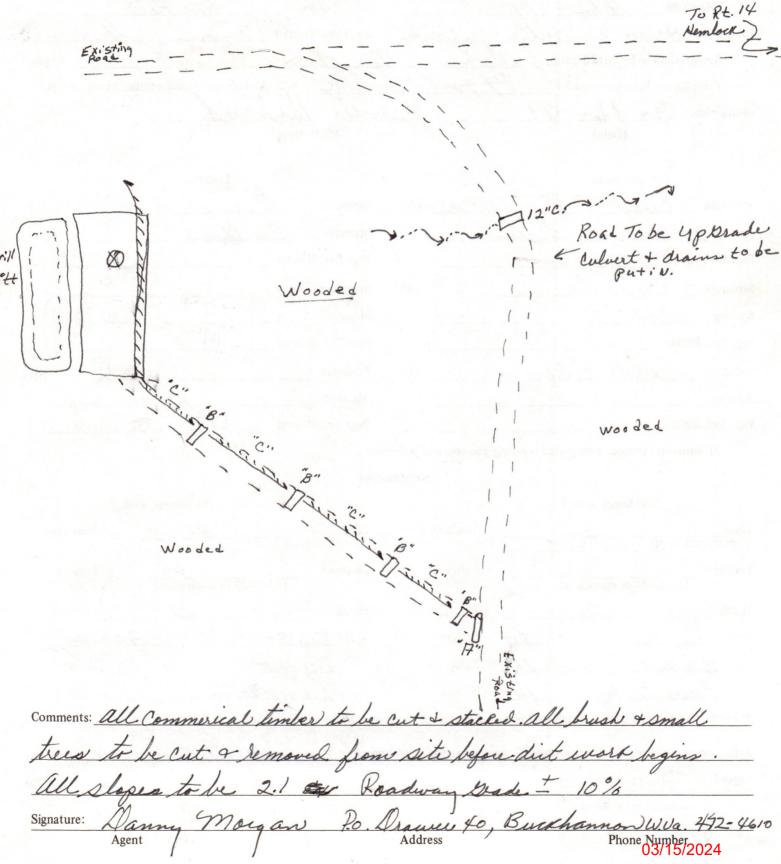
PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

				-						
				Add	dress _	P. O. D	rawer 40	P3.		
					_	Buckhan	non, WV 2	26201		
GEOLOGICAL	TARGE	T FORM	MATION	,		Elk	VF-14			
Estimated	d depth o	of comp	leted wel	ll,		5200 fee	et Rotary	/ Cab	ole tools	
Approxim	nate wate	er strata	depths:	Fresh	1,	? feet	salt,	? feet.		
								in the area? Yes_		<u>x</u> /
CASING AND										
	. 777						Ť.	<u> </u>		
CASING OR	SPE	CIFICAT		1		FOOTAGE	NTERVALS	CEMENT FILL-UP OR SACKS	PACKERS	
TUBING TYPE	Size	Grade	Weight per ft	New	Used	For drilling	Left in well	(Cubic feet)		ana iba
Conductor	11 3/4	1"		x		20'	20'		Kinds	
Fresh Water	N plus	1,14,1	-71.4	14. 8		400				
Coal		7	- 77						Sizes	
Intermediate	8 5/8	This	23#	x	150	950'	950 '	380 sks.		
Production	1	M - 1 A	-			53.00	5100'	420 sks. or	Depths set	
	4 1/2	-	105#	X		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3100	by Jule 1		1.49
Tubing				-				The state of	Perforations:	
Liners				+				· ·		Bottom
1,27413	-	111		-	1				Тор	Bottom
		Total	1				-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	3
										April 10 feet
the I pres	Department cribed by clamation	Regulat Plan'',	tion 12, applicabl	or in le to the	lieu th	ereof the other	er security allowed by Code \$	our copies of Form IV- lation 11, (ii) a bond owed by Code § 22-4 22-4-12b and Regula (v) if applicable, the	2-2, (iii) Form IV ation 23, (iv) unlo consent required	-9, ess
the I press "Rec prevent Code A be p THIS PERM All provisof the W for dri operation	Department of the separate sep	Regular Plan", d on the sa from Iv-2 work for ST BE F	applicable same we the owner which a poster of the coordance location. This menced by the coordance of the coordance location.	or in lee to the left of art the recommendation of art the recommendation of the left of the left of the left of the recommendation of the left of the	plat in lieu the reclassic fee required is south the Win Character of the control	the form presidence of the other amation required by Code er well or dweet for fracturing of the state of the	er security allowed by Code \$\square\$ 22-4-12a, and elling within 20	wed by Code & 22-4	1-2, (iii) Form IV ation 23, (iv) unless consent required and well. g or stimulating is connection therews	-9, ess by
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the I press "Rec prev Code A be p THIS PER All provisof the W for dri operation The under proposed we The undersi	Department of the cribed by clamation iously paid of \$22-4-8 separate and of the cribe and	Regular Plan", d on the sa from to work for ST BE Form Iv-2 work for solde, the ot community of the communit	panied to tion 12, applicable same we the owner which a cordance location. This menced by must be ode 22 attor me map ection to the cord of the cordance cordance cordance location.	AT To with is her permit vision comple-4-20,	piat in lieu the lieu the reclaim wat quired is sou HE W has been considered by considered by if the lieu the powner_which considered by if the lieu powner_which considered by the property of the property of the property of the lieu powner_which considered by the property of the proper	rethe coal operar permit is to be overs the area dosed to be do	tor and by any ce issued within	wed by Code § 22-4 22-4-12b and Regula (v) if applicable, the 00 feet of the propose well where fracturing the Form IV-2 filed in comparison of the coal under the tion, the well location ion, provided, the w	see who has record receipt thereof.	ded a



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



Please request landowners cooperation to protect new seeding for one growing season.

API No. 47 - Randolphico - 048
State County Permit MAR 16 1981 Tygart Valley Soil Conservation District STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS Company Name Union Smilling INC. Designated Agent Union Drilling Inc. P.o. Drawer 40 Buckhannonswia. Address Po. Drawn 40 Bullannon ava Telephone Landowner Harry Mr. Mullan M. Estate Zygorts Valler Soil Cons. District Revegetation to be carried out by SCD. All corrections and additions become a part This plan has been reviewed by of this plan. 3-16-81(SCD Agent) Access Road Location Structure Culvert Pipe (12"min) (A) Spacing At natural drains Material Page Ref. Manual Page Ref. Manual Structure Cross Drains (B) Structure Spacing Material Page Ref. Manual Page Ref. Manual Structure Road ditchs JUN - 9 1981 (C) Structure (3)Material Spacing OIL & GAS DIVISION DEPT. OF MINES Page Ref. Manual Page Ref. Manual All structures should be inspected regularly and repaired if necessary. Revegetation Treatment Area I Treatment Area II Tons/acre Tons/acre or correct to pH (10-20-20 or equivalent) lbs/acre lbs/acre (10-20-20 or equivalent) Mulch Tons/acre Mulch Tons/acre lbs/acre Seed* Ky. 31 lbs/acre lbs/acre lbs/acre Domestic Rye lbs/acre *Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. Cassety Attach or photocopy section of involved Topographic map. Quadrangle Legend: Well Site - Access Road Cold 03/15/2024



COAL COMPANY

105 SOUTH MERIDIAN STREET, INDIANAPOLIS, INDIANA 46225 . [317] 266-2626

June 16, 1981

Bar 188

JUN 2 6 1981

OIL & GAS DIVISION DEPT. OF MINES

Department of Mines Oil and Gas Division 1615 Washington Street, East Charleston, West Virginia 25311

Re:

Union Drilling, Inc.

No. 4 Harry McMullan, Jr. Est. (1702-UC)

Middle Fork District Randolph Co., W. Virginia

Dear Sirs:

The AMAX Coal Company has received notification that a permit application is being filed to drill the above-mentioned well. The AMAX Coal Company will offer no objection to the drilling of this proposed well provided the applicant intends to drill the proposed well subject to the following conditions:

- 1. All drilling and casing of the well shall be done in compliance with the laws and regulations of the State of West Virginia for wells drilled through workable coal beds.
- 2. All workable coal seams regardless of depth shall be plugged in accordance with the rules and regulations of the State of West Virginia, specifically as outlined in Article 4, Chapter 22 of the West Virginia Code.
- 3. Union Drilling, Inc. - will provide AMAX with a density and natural gamma ray log at a 5"=100' scale covering the interval from total depth to ground surface. In addition, one copy of any other geophysical log shall be sent to AMAX. However, AMAX Coal Company retains the option to run their own logs or have this service contracted out. Please contact Mr. David Darko (317/266-2633) for questions on this procedure.
- * 3a. AMAX Coal Company would like permission to run logs on the coal section of this hole prior to casing being set. AMAX Coal Company would bear the logging costs and rig time costs for such service.

Department of Mines Page Two June 16, 1981

4. Copies of the completion report, OG-10, and plugging affidavit, OG-8, if applicable, shall be sent to AMAX Coal Company, Attention: James W. Faber.

Sincerely,

James W. Faber, Manager Development Geology

JWF/mdt

Enclosures

cc: Union Drilling, Inc.
David Darko

The above stipulations are agreed to as a condition for obtaining a drilling permit.

Representative of Union Drilling, Inc.

FORM IV-35 (REVERSE)

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

Elk Stray - 5190'
IOF = Show
FOF = 400 mcf/d - 2 hrs.
1050# Rock after 24 hrs.

Dowell Water Fractured 11/02/81

Benson - 3636/40' - 45,000# Sand - 430 bbls water

Elk - 4798/4800, 4806/10' - 45,000# Sand - 465 bbls water

Elk Stray - 5172/90, 5180/82, 5186/90' - 45,000# Sand - 395 bbls water

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil Sand & Shale Coal Sand & Shale Coal Sand & Shale Big Lime Big Lime Big Injun Sand & Shale 5th Sand Sand & Shale Benson Sand & Shale Elk Sand & Shale Elk Sand & Shale Elk Sand & Shale Sand & Shale	0 12 200 203 330 333 1206 1298 1434 2049 2134 3646 3658 4804 4830 5146 5218	12 200 203 330 333 1206 1298 1434 2049 2134 3646 3658 4804 4830 5146 5218 5362 TD	Coal @ 200-203' Coal @ 330-333'

(Attach separate sheets as necessary)

UNION DRILLING, INC.	
Well Operator	The Indiana
By: () csyl (Lity	03/15/2024
Date: Joseph C. Pettey, Vice Presider	nt-Production
12/31/81	· Air addition

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 and, encountered in the drilling of a well."



IV-35 (Rev 8-81)

RECEIVED State of Mest Nirginia

Bepartment of Mines Gil und Gas Bivision

	12/3			
	ator's			
Well	No.	1702-4C	44	3.79
Fam	Harry	McMullan	1702-	-4C
APT	No. 47	- 083	- 048	87

JAN7 - 1982

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

ELL TYPE: Oil / GasXX / Liquid Injection (If "Gas," Production XX / Underground	/ Waste	e Disposal e/ Deep	/ / Shal	llow_xx/)
OCATION: Elevation: 2922' Watershed Cold				
District: Middle Fork County Randolp	oh .	Quadrangle	Cassity	
	73.187			X = Y
OMPANY Union Drilling, Inc.	-CR			Cement
DDRESS P.O. Drawer 40, Buckhannon, WV 26201	Casing	Used in	Left	fill up
DESIGNATED AGENT Union Drilling, Inc.	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Size			
SURFACE OWNER Harry McMullan, Jr. Est.	20-16 Cond.			
ADDRESS P.O. Box 8, Washington, NC 27889	13-10"			
MINERAL RIGHTS OWNER (Same as above)	9 5/8			
ADDRESS	8 5/8	905.55	905.55	250 sks
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			
Stewart ADDRESS P.O.Box 345, Jane Lew, WV	5 1/2			
PERMIT ISSUED 06/09/81	4 1/2	5298.70	5298.70	450 sks
DRILLING COMMENCED 10/15/81	3			
DRILLING COMPLETED 10/20/81	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			
ON	-	Do	pth 520	n feet
GEOLOGICAL TARGET FORMATION Elk	D 1 W			0
Depth of completed well 5362 feet	Rotary X	fee	+ 	
Water strata depth: Fresh — feet;	Sait_			ne area? no
Coal seam depths: 200-203, 330-333'	_ 15 00a	I being in	2104 221	
OPEN FLOW DATA			. 20	5/10 5
Benson Benson	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	ay zone de	-P	540 feet
Gas: Initial open flow Show Mcf/d	Oil:	Initial op	en flow_	none_Bbl/d
minal open flow 398 Mcf/d	1	inal oben	110w	none
mims of open flow between ini	tial and	final tes	ts2	hours
Static rock pressure 1050 psig(surfa	ace measur	rement) af	ter 24 r	nours snut 1
(If applicable due to multiple completion	1			
Elk		Pay zone d	lepth 481	feefee
Tritial open flow Show Mcf/d	Oil:	Initial of	en flow_	none_Bbl/
Final open flow 400 Mcf/d	Oil:	Final ope	I IIOW I	ione
mine of mon flow between in	itial and	final te	sts 2	nours
Static rock pressure 1050 psig (surfa	ce measu	rement) af	ter 24	nours shut I

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



OCT 1 9 1981

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Permit No. <u>083-048</u>	37				Oil or	Gas Well GAS	3
Company UNION	DRillin6		CASING AND TUBING	USED IN DRILLING	LE TIN	PACKERS	
Address Buek	HANNON		Size				
Farm HARRY	nemiller		16		-	Kind of Packer_	
Well No. 4-1702	z-ve		13				State No. 2
District MIDDLE Fo		DOIPH	81/4 8 7/8		906	Size of	
Drilling commenced	10-14-81		65%			Depth set	
Drilling completed	Total depth		5 3/16			Perf. top	
Date shot	Depth of shot	-	2			Perf. bottom	
Initial open flow	/10ths Water in	nInch	Liners Used			Perf. top	
Open flow after tubing	/10ths Merc. in	Inch				Perf. bottom	
Volume		Cu. Ft.	CASING CEME	NTED 878	SIZE 90	6 No. FT	5-8/ Date
Rock pressure	lbs	hrs.	NAME OF SER	VICE COMPA	ANY HA IIIB	URTON	
Oil	bbls.,	1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETI	NCHES
Fresh water	feet	feet	FEET_	INC	HES	FEETI	NCHES
Salt water	feet	feet	FEET_	INCI	HES	FEET	NCHES
Drillers' Names	W. JAC.	k 7	Ri6 20	2			
Remarks:		\neg \mathcal{D}	FACE				
Penent	- 70 5	DUF	-1 /1				

10-16-81

Rollert Stawa 03/15/2021
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY					AND THE PROPERTY OF THE PROPER	
ARM		DISTRICT		OUNTY		
lling Material Used						
ner Loc	eation	Amount	Packer	Location		i i
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
				- AZT		
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			Society States (
					dud hears	
	The state of the s					
	e in a tractic	5 2 3 5 1 3 5 2				
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				le se		11-11-11
illers' Names						
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marks:		200				7 2 34

DISTRICT WELL INSPECTOR

STATE OF WEST VIDGINIA

DEPARTMENT OF MINES

RECEIVE

AUG 2 0 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0487	3			Oil or G	ia: Well 6	AS
Company DNION DRIllin	16 INE	CASING AND TUBING	USED IN	Left in Well	PAC	KERG
BUCK HANN	on	Size				
HARRY MEM	vller	16	Variable and a little of		Kind of Pac	cker
Well No. 4-1702-UC		13		22-28-27-4	Andrews and the second	
Well No T-1102-UE		10			Size of	
District NIDD/e FORK Coun	ty KANDOIPH	814		The second secon		
Drilling commenced 10-14-	-8/	6 %			Depth set_	
		5 3/16				
Drilling completed Tota	l depth	3			Perf top_	
Date shotDepth of	shot	2			Perf. botto	nı
Initial open flow/10ths	Water in Inch	Liners Used			Peri top	
Open flow after tubing/10ths					Perf botto	m
Volume	Cu. Ft.	CASING CEMEN	NTED	_SIZE	_No. FT	Date
Rock pressurelbs	hrs.	NAME OF SER	VICE COMPA	NY		
Oil	bbls., 1st 21 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES
Fresh waterfeet	feet	FEET_	INCH	ES	FEET	INCHES
Salt waterfeet	feet	FEET_	INCH	ES	FEET	INCHES
Drillers' Names						
Remarks:	PI					
O.K. To	Rele.	ASP	7			

8-18-82

Robert Stewart

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

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(PANY		and the second section of the second section section section sections.	ADDRESS			
Marie Congress of the constraint		DISTRICT		COUNTY	According to the second section of the second second	The second secon
0.1347.55	15.35			COUNTY		
ng Material Used		er paravonale parava, en		Dr. commercialistic cust control position accomment or confidence		
Loc	ation	Amount				-
		Amount	Packer	Location	The second secon	A CONTRACT
	NO DEPTH PLACED		BRIDGES	CASIN	G AND TU	DING
MENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
and the second s			4464			VITTE.
	To American Property of the Control			7-18/2-		
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and the state of t						
PARTINAM						
ETHORE						
THE PROPERTY OF THE PARTY OF TH						
' Names						
				And the second second		
			_			ense spager –

I hereby certify I visited the above well on this date.

847



State of West Birginia

Department of Mines Gil and Gas Division Charleston 25305

WALTER N. MILLER DIRECTOR

THEODORE M. STREIT ADMINISTRATOR

September 20, 1982

Union Drilling, Inc. P. O. Drawer 40 Buckhannon, W. Va. 26201

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

PERMIT NO.	FARM AND WELL NUMBER	DISTRICT
CAB-G694	George Spurlock, Jr., #1	Union
CAB-C7CC	Hobert A. Jefferson, #1	Union
MAS-0265	Marie Jeffers, #1	Hannan
MAS-0266	Leslie F. McCoy, #1	Cooper
RAN-0487	Harry McMullan, Jr., Estate, #4-1762-UC	Middle Fork
RAN-G5G1	Harry McMullan, III, Agent, #5B-1764-U	Roaring Creek
RAN-0505	Harry McMullan, III, Agent, #8-B-1683-UC	Roaring Creek
RAN-0506	Harry McMullan, 111, Agent, #6-B-1705-UC	Roaring Creek
RAN-G511	Harry McMullan, Jr. Estate, #20-1665-UC	Middle Fork
UPS-2313	Ita M. Gootee, Agent, #1-1730-U	Washington
UPS-2407	Hubert F. Hefner, #1-1749	Banks
UPS-2412	J. C. Eckess Heirs, #1-1727-U	Banks

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved.

Very truly yours,

Theodore M. Streit

TMS:rl

FERC-121

1.0 API well number:	1							
(If not available, leave blank. 14 digits.)	47-083-0487						
2.0 Type of determination being sought: (Use the codes found on the front of this form.)		7/500350487						
		10)3					
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	1	Section	of NGPA	n/ Categ	a ory Code			
	1							
4.0 Name, address and code number of applicant: (35 letters per line	IDIT	0) ;		90 feet				
maximum. If code number not available, leave blank.)	Name	ON DRILLING	, INC.	State of the same				
January Colonia,	P. (O. Drawer 40)			019434		
	Street	channon				Seller Code		
50 1050	City	diamion		WV 26	201			
5.0 Location of this well: [Complete (a) or (b).]	1				Code			
(a) For onshore wells	Mid	dle Fork Di	strict	-11 20,27 (23.2)				
(35 letters maximum for field name.)	I LIEIG IV	ame dolph						
	County	аотрп	A. C. A.	W	7			
(b) For OCS wells:	* 4 - C ** V				ate			
	ALTERNA	Control Sections				,		
	Area Na	me						
		Date of Lea		Block No	umber			
		L L L L	ase:					
(c) Name and id		Mo. Day	Yr.	OCS Lease Nun	obar			
(c) Name and identification number of this well: (35 letters and digits		and the second second		Coo Lease Wull	nber			
maximum.)	Har	ry McMullan	#4C	1702				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)								
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Co1um	mbia Gas Tra	ansmission (Corp.		004030 Buyer Code		
(b) Date of the contract:	Mo. Day Yr.							
(c) Estimated annual production:		NOT_IN I	PRODUCTION	YETMMcf.				
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indica (+) or (-).]		d) Total of (a), b) and (c)		
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		_2. 608 _			_	2.608		
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)		<u>2. 608</u>	:		_	2.608		
9.0 Person responsible for this application:	Toco	ph C. Pette	v. Vice Pre	sident of	Produ	uction		
Agency Use Only	Name	pii C. Tette	/	Title				
Date Received by Juris, Agency	()	101	1					
APK 1 1982	Signature	yh (- F	my /			-		
Date Received by FERC		R 2 9 1982	U	304) 472-4	610			
Date Received by FERIO	AM	plication is Comple		Phone Num		-		
	Date Ap	pincacion is comple				FT7900806/2-2		

APR 11982

PARTICIPANTS: DATE: BUYER-SELLER CODE
WELL OPERATOR: Union Drilling, Inc. Sep 019434
FIRST PURCHASER: Columbia Gus Trans. Corp 91982 004030
OTHER:
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 820401 -103-083=0487 Usa Above File Number on all Communications
Usa Above File Number on all Communications
Relating to Determination of this .Well
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING
ITEM NO.
1. FERC -121 / Items not completed - Line No. 7.0 + 8.0 bc
2. IV-1 Agent XR. Ranson
3. IV-2 Well Permit
4. IV-6 Well Plat
5. IV-35 Well Record Drilling Deepening
6. IV-36 Gas-Oil Test: √ Gas Only Was Oil Produced? Ratio
7. IV-39 Annual Production years
8. IV-40 90 day Production Days off line:
9. IV-48 Application for certification. Complete?
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?/ Affidavit Signed_/
18-28. Other: Survey Logs Geological Charts
Structure Map1: 4000 Map Well Tabulations
(5) Date commenced: 10-15-8 Date completed 10-20-8 Deepened
(5) Production Depth: 3640 4816
(5) Production Formation: Benson EIK
(5) Final Open Flow: 400 MCF
(5) After Frac. R. P. 1050# 24hrs.
(6) Other Gas Test:
(7) Avg. Daily Gas from Annual Production:
(8) Avg. Daily Gas from 90-day ending w/1-120 days
(8) Line Pressure: PSIG from Daily Report
(5) Oil Production: From Completion Report
O-17. Does lease inventory indicate enhanced recovery being done NO
O-17. Is affidavit signed?
oes official well record with the Department confirm the submitted information? 03/15/2024
dditional information Does computer program confirm?
as Determination Objected to By Whom?
73

FORM IV-54WC (12-78)

STATE OF WEST VIRIGNIA

DEPARTMENT OF MINES,

OIL AND GAS DIVISION

Operator's Well No.		4C -	170	2	
API Well No. 47		083		0487	
State	_	County	_	Permit	

Date March 19 , 1982

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

	DESIGNATED AGENT UNION DRILLING, INC. ADDRESS P. O. Drawer 40			
	Buckhannon, WV 26201			
WELL OPERATOR UNION DRILLING, INC.	LOCATION: Elevation 2922'			
ADDRESSP. O. Drawer 40	Watershed Cold Rum of Middle Fork River			
Buckhannon, WV 26201	Dist Middle Fk. County Randolp Quad. Cassi			
GAS PURCHASER Columbia Gas Trans. Corp.	Gas Purchase			
ADDRESS P. O. Box 1273	Contract No.			
Charleston, WV 25325	Meter Chart Code			
	Date of Contract			

Date surface drilling was begun 6/9/81				
Indicate the bottom hole pressure of the well and explain	how this was calculated:			
BHP = P_1 xe (G x L / 53.34 x Avg. T) P_1 = 1050# G = 0.635 L = 5190' Avg.				
BHP = 1165.95 psia	$T = 007 L + 520^{\circ}R$			
1100.00 ps1a				
	DAVIT			
existence at the time surface drilling began, which was produced and which applied to any other well producing began on or after February 19, 1977, and which was cap further, that I have concluded to the best of my information.	g been first sworn according to law state that surface ight was begun on or after February 19, 1977; the well rements and the well is not within a proration unit, in applicable to the reservoir from which gas is or will be gas in commercial quantities or on which surface drilling bable of producing gas in commercial quantities. I state, ation, knowledge and belief, that the well for which this and that I am not aware of any information not described lusion.			
	1			
STATE OF WEST VIRGINIA,	Joseph C. Petrey, Vice President of Prod			
COUNTY OF UPSHUR, TO WIT				
I, Millauf It Carpbell a Notary Public in	and for the state and county aforesaid, do certify the writing above, hearing date the 20th			
that Joseph C. Pettey , whose name is signed to	the writing above bearing data the 20th			
March , 19 82 , has acknowledged	the same before me, in my county aforesaid			
Given under my hand and official seal this	day of March 10 82			
My term of office expires on the day of_	3/3, 19/83. 03/15/2024			
(NOTARIAL SEAL)	2			
	Miller Hill makes			
	Notary Public			
	riotary I done			