FORM IV-2 (Obverse) (08-78)

1981 June 5 Date: Operator's Well No._ 5 - 1707 - UC API Well No. 47 083 0488 State County Permit

STATE OF WEST VIRGINIA

	DEPARTMENT OF MINES, O	IL AND GAS DIVISION Harry McMullan, Jr., Est. #5
	OIL AND GAS WEI	LL PERMIT (1707-UC)
WELL TYPE:	Oil/ Gasx/	
	(If "Gas", Productionx/ Undergrou	und storage/ Deep/ Shallowx_/)
LOCATION:	Elevation: 2718' Watershe	d: Cold Run of Middle Fork River
	District: Middle Fork County:	Randolph Quadrangle: Cassity
WELL OPERAT	OR 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 OWN	NER Harry McMullan, Jr., Est. Harry McMullan, III, Agent	COAL OPERATOR
Address	P. O. Box 8	Address
	Washington, NC 27889	
Acreage	461	COAL OWNER(S) WITH DECLARATION ON RECORD:
	WER Harry McMullan, Jr., Est.	Name AMAX COAL COMPANY
Address	SAME	Address 105 S. Meridian St.
11441000		Indianapolis, Ind. 46225
Acreage	461	Name
FIELD SALE (I	IF MADE) TO: JUN - 9 1	981 · Address
Address	Not Determined at this time	
	OIL & GAS D	COAL LESSEE WITH DECLARATION ON RECORD:
OIL & GAS IN	SPECTOR TO BE NOTIFIED	Name International Coal
	ct Stewart (884-7782)	Attn: Samuel D. Mason, Dir. of
	P. O. Box 345	Greenbrier Valley Building 119 West Washington St.
	Jane Lew, WV 26378	Lewisburg, WV 26901
	U	DI Lease #1305
		rposes at the above location under a deed/ leasex
other contract	/ dated, 19_80, t	o the undersigned well operator from Harry McMullan, Jr.,
(IF said deed, le	on Drilling, Inc.	
		k of the County Commission of Randolph County, West
West, in Dee	ed Book 335 at page 614 .	A permit is requested as follows:
		rill/ Fracture or stimulate x/
		e new formation/ 10000000 add as a construction
	Other physical change in well (specify)	if state the premit shall be the property if
		androines have not commenced by
	-planned as shown on the work order on	the reverse side hereof.
The above nam	ned coal operator, coal owner(s), and coal lessee are he	ereby notified that any objection they wish to make or are required to
make by Code §2	22-4-3 must be filed with the Department of Mines	within fifteen (15) days after the receipt of this Application by the
Department		

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBM	IIT COPI	ES OF	ALL
GEOPHYSICAI	LOGS	DIRE	CTLY
то:			
WEST VIRGIN	IIA OIL	AND	GAS
CONSERV	ATION	COM	MIS-
SION			
1615 WASHING	STON ST	REET	EAST
CHARLESTON	, WV 25	311	
TELEPHONE:	(304) 348	3-3092	

03/15/2024 Well Operator

BLAMKET BOND

FORM IV-2 (Reverse) (08-78)

PROPOSED WORK ORDER

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

		,		_	OIV	ION DRILL				
				Ad	dress	P. O. Dr	awer 40	Maria Maria de la companya della companya della companya de la companya della com		
						Buckhann	on, WV 26	201		
GEOLOGICAL	TARGE	T FOR	MATION	,		Ell	k			
Estimate	d depth	of comp	leted we	11,	5	200 fe	et Rotary		le tools	_/
Approxir	mate wat	er strata	depths:	Fres	h,	? feet	; salt,	? feet.		
								in the area? Yes	/ No	x /
CASING AND						100		ne grante		
							Ţ.	NAB WAR		
CASING OR TUBING TYPE	SPE	CIFICAT	IONS Weight per ft	New	Used	FOOTAGE For drilling	INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
								100 g 100 7.8	injusi	
Conductor	11 3/4	<u>"</u>		Х		20'	20'		Kinds	
Fresh Water										. 2
Latermediate				7			***************************************		Sizes	
Intermediate	8 5/8		23#	X		950	950'	380 sks.		
Production	4 1/2	•	10½#	х		52000	5100'	420 sks. or	Depths set	
Tubing				-				by rule 15.0		
Liners			-	-	-			U	Perforations:	
0.00									Тор	Bottom
					-10					
			1							
the D	epartmen	t, accom	panied by	y (i) a	plat in	the form pres	cribed by Regu	ur copies of Form IV-2 lation 11, (ii) a bond wed by Code & 22-4-2	in one of the form	ıs
the D presc. "Rect previous Code As be pa THIS PERM!" All provision of the W. fordri_ operations	ribed by lamation ously paid \$22-4-8a reparate Fort of the variation of th	Regulation Regulation Regulation Regulation Plan'', and on the safe from the form Iv-2 work for the safe point according to the local comment of the safe point according to the local regulation according to the safe point acco	panied by ion 12, or applicable same well he owner shall not which a posterior is this period by	y (i) a r in 1 e to th l, the f of an be requermit T THE with here 2-	plat in ieu the e recla ee requiy wate uired fis soug Chapte by app	the form preserved the other mation required by Code sor well or dwell or fracturing on the and is noted. SITE er 22, proved	cribed by Regular security allowed by Code \$ 2,22-4-12a, and (Iling within 200) r stimulating a security of the stimulating a security of the	ur copies of Form IV-2 lation 11, (ii) a bond wed by Code § 22-4-2 22-4-12b and Regulat (v) if applicable, the co feet of the propose well where fracturing Form IV-2 filed in con	in one of the form 2, (iii) Form IV-ion 23, (iv) unlessonsent required by well.	ns 9, ss py
the D prescourse Code As be pa TMIS PERM! All provision of the W. fordri operations Deputy	ribed by lamation ously paid \$22-4-8a separate Furt of the vart of	tt, accom Regulati Plan'', a I on the s a from tl form Iv-2 work for v BE PO in accom commen	panied by ion 12, or applicable same well he owner shall not which a posterior is the control of	y (i) a r in 1 e to th l, the f of an be requermit T THE with herel sion	plat in ieu the e recla ee requiy wate uired fis soug Chapte by app hall ex 24-82	the form preserved the other mation required by Code or well or dwell or fracturing of the and is noted. SITE Proved Approved Approv	r and by any coaissued within	lation 11, (ii) a bond in wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the collection of the propose well where fracturing	in one of the form 2, (iii) Form IV- ion 23, (iv) unles onsent required to d well. or stimulating is nnection therewith	ns 9, ss by to h.
the D presc. "Rect previous Code As be pa THIS PERM! All provision of the W. for dri. operations! Deputy The decision of	ribed by lamation ously paid \$22-4-8a separate Furt of the vart of	t, accom Regulati Plan'', a I on the s a from the form Iv-2 work for the comment comment waiver in nder Coo	panied by ion 12, of applicable same well he owner shall not which a posterior is the control of	y (i) a r in 1 e to th l, the f of an be requermit THE with herel sion omplet -20, if	plat in ieu the e recla ee requy wate uired fis soug EWELL Chapte by app hall ex 24-82	the form preserved the other mation required by Code or well or dwell or fracturing of the and is noted. SITE Per 22, proved apire if	r and by any coaissued within	lation 11, (ii) a bond is wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in constant of the propose all owner or coal lesses fifteen (15) days of respectively.	in one of the form 2, (iii) Form IV- ion 23, (iv) unlessonsent required by the desired well. or stimulating is innection therewith the desired well in the desired well.	d a
the D presc "Recc previo Code A s be pa THIS PERM! All provision of the W. for dri operations Deputy The decla The undersignoposed well The undersignoposed well	ribed by lamation ously paid \$22-4-8a separate Furt of the vart of	waiver mader Cool	panied by ion 12, or applicable same well he owner shall not which a posterior is a posterior in	y (i) a r in 1 to to th to th th, the f of an be requermit THE with hereb sion omplet -20, if	plat in ieu the e recla ee requy wate uired fis soug WELL Chapte by app hall ex 24-82	the form preserved the other mation required by Code or well or dwell or fracturing of the and is noted. SITE Per 22, proved apire if Per 21, proved apire if Per 22, proved apire if Per 24, proved apire if Per 25, proved apire if Per 26, proved apire if Per 26, proved apire if Per 26, proved apire if Per 27, proved apire if Per 28, proved apire if Per 29, proved apire if Per 20, proved apire if Per 21, proved apire if Per 22, proved apire if Per 24, proved apire if Per 25, proved apire if Per 26, proved apire if Per 27, proved apire if Per 28, p	r and by any coaissued within	lation 11, (ii) a bond is wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the colorest of the propose well where fracturing Form IV-2 filed in constant of the coal under this constant, the well location has no provided, the well	in one of the form 2, (iii) Form IV- ion 23, (iv) unlessonsent required by the desired service who has recorded the receipt thereof.	d a
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Well No.

(Agent)

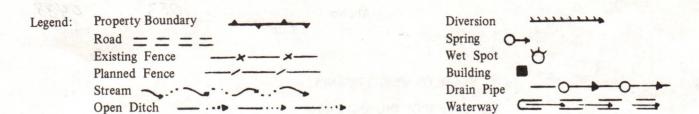
1. V Dramiel Val	API No. 4/	- 005 -	0 700
MAR 16 1981	State	County	Permit
Form IV-9 (01-80) Tygart Valley Soil Conservation District STATE OF V	VEST VIRGINIA OIL AND GAS		
Company Name Union Drilling INC.	Designated Agent	ion Drilling	ING.
Address Po. Drawer 40, Bucklamon W/s	Address Po. An	and 40, Buch	man WVa
Telephone 472 - 4610	Telephone	472-4610	
Landowner Harry Mr. Mullow Vr. Estate	Soil Cons. District Zy	garts Valley	
Revegetation to be carried out by		/	(Agen
This plan has been reviewed by TygARIS V. of this plan. 3/17/8/	Alley SCD. All con	rrections and additions	become a part
(Date)	(SCD Agent)	1 1/2	

Access Road		Location
Structure Culvert Pipes (12"min) Spacing at natural Drains	(A)	Structure Diversion (1)
Spacing at natural Drains		Material Earther
Page Ref. Manual		Page Ref. Manual
Structure Cross Orains	(B)	Structure(2)
Spacing 250' ±		Material WESS VE
Page Ref. Manual		Page Ref. Manual
Structure Roadway ditch	(C)	Structure(3)
Spacing		Material Oil & GAS DIVISION
Page Ref. Manual		Page Ref. Manual DEPT. OF MINES

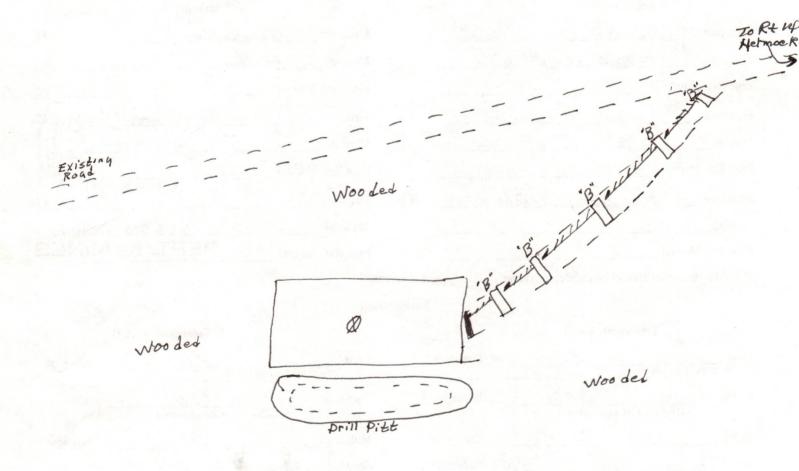
All structures should be inspected regularly and repaired if necessary.

Treat	ment Area I			Treatment Area II
or correct to pH	3.5	Tons/acre	Lime or correct to pH	3
Fertilizer	600 or equivalent)	lbs/acre	Fertilizer	600 or equivalent)
Mulch	2	Tons/acre	Mulch	2
seed* Ky 31	30	lbs/acre	Seed* ky 3/	30
Birdfost	10	lbs/acre	Birdfoot	10
Domestir.	Rue 10	lbs/acre	Domestic Rese	10

		volved Topographic map. Quadrangle Cassity 7.5
end:	₩ell Site	The state of the s
	Access Road	
		Drill /
		% Hole
		03/15/202
		JRAIL XE



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.



Comments: All Commercial timber to be Cut + stacked. All brush & small trees to be Cut + disposed of before dirt work begins. All slopes to be. 2. / exception rock. Roadway grade 7-5%

Signature: Danny Morgan Po. Draww 40, Buckhannon Was 472-4610

Address

Phone Number
03/15/2024

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

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

June 16, 1981

ban, 188

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

Re: Union Drilling, Inc.

No. 5 Harry McMullan, Jr. Est. (1707-UC)

Middle Fork District

Randolph County, West Virginia

JUN 2 6 1981

DET 1. UT WILL

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.

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 A. Darko

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

Representative of Union Drilling, Inc.

03/15/2024

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

On 2/11/82 Dowell Water Fractured the Big Injun 1282/94 with 266 BBL, 30,000# sand Bayard 1928/33 with 262 BBL, 30,000# sand Riley 3204/08 with 317 BBL, 30,000# sand Benson 3506/10 with 300 BBL, 30,000# sand Elk 4706/18 and 4911/39 with 625 BBL, 60,000# sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill Sand Sand and Coal Sand and Big Lime Big Injur Sand and 4th Sand and 5th Sand and Sand and Bayard Sand and Riley Sand and Benson Sand and Elk Sand and Elk Sand and	Shale Shale Shale Shale Shale Shale Shale Shale Shale		0 10 35 268 270 1042 1138 1310 1671 1715 1829 1854 1895 1936 3198 3212 3502 3518 4695 4733 4855 4952	10 35 268 270 1042 1138 1310 1671 1715 1829 1854 1895 1936 3198 3212 3502 3518 4695 4733 4855 4952 5200	Water @ 46' ½" stream TD Initial open flow of 152,000

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

RECEIVED

WEST LINE

IV-35 (Rev 8-81) APR 2 - 1982

OIL AND GAS DIVISION State of Mest Mirginia

Department of Mines Gil und Gas Division

Date March 19, 1982	
Operator's	
Well No. 5C - 1707	
Farm Harry McMullan #5C	
API No.47 - 083 - 0488	

(Continue on reverse side)

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x/ Liquid Injection (If "Gas," Production x/ Undergrou	/ Waste	e Disposal e/ Deep	L/ b/ Sha	llow_x_/)
LOCATION: Elevation: 2718 Watershed (
District: Middle ForkCounty Rando				
COMPANY UNION DRILLING, INC.		*		(Company)
ADDRESS P. O. Drawer 40, Buckhannon, W 26201	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT UNION DRILLING, INC.	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Drawer 40, Buckhannon, WV 26201	Size 20-16			
SURFACE OWNER Harry McMullan, Jr. Estate	Cond.		_	
ADDRESS P. O. Box 8, Washington, NC 27889	13-10"	Pulled		
MINERAL RIGHTS OWNER Harry McMullan, Jr. Estate	9 5/8			
ADDRESS P. O. Box 8, Washington, NC 27889	8 5/8	1000.35'	1000.35'	420 cu.ft.
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			
Stewart ADDRESSP. O. Box 345, Jane Lew, WV	5 1/2			
PERMIT ISSUED June 9, 1981	4 1/2	122	5036.60'	1087 cuft
DRILLING COMMENCED 1/23/82	3			
DRILLING COMPLETED 1/30/82	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			d d
GEOLOGICAL TARGET FORMATION E1k		Dept	th 5200	feet
Depth of completed well 5200 feet R	Rotary x	_/ Cable	e Tools_	
Water strata depth: Fresh 46' feet;	Salt_ no	ne feet		
Coal seam depths: 268/270	Is coal	being mine	ed in the	area? no
OPEN FLOW DATA				
Producing formation Bayard, Riley, Benson	, Elk Pay	zone dep	th 4953	feet
Gas: Initial open flow 152 Mcf/d				
Final open flow 1.163 Mcf/d				
Time of open flow between initi				
Static rock pressure 300# psig(surface	e measurem	ent) after	r 24 hou	rs shut in
(If applicable due to multiple completion-)			
Second producing formation	Pay	zone dep	th	/15/2024 feet
Gas: Initial open flow Mcf/d				Bbl/d
Final open flowMcf/d	Oil: Fir	al open f	low	Bbl/d
Time of open flow between init	ial and fi	nal tests	ho	urs
Static rock pressurepsig(surface	measureme	ent) after	hou	rs shut in

RECEIVED

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

JAN 2 6 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No.083-04	88		* F 5 7 7	e de la vertica de la compansión de la comp	Oil or	Gas Well (O)	45
Company WNION	DRilling		CASING AND TUBING	USED IN DRILLING	LE T IN	PACK	ERS
Address Buck	HAUNON		Size				* 10 20 24
Farm HARRY	me mull	lev	16	on the state of th	18 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Kind of Pack	er
Well No. 5-17	707-UC	***	13	14.70 14.70		a:	
District MIDIS/e	County For	RKW	81/4			Size of	
Drilling commenced		1	6%			Depth set	
Drilling completed			5 3/16				
Date shot	and the second s		3			Perf. top	
Initial open flow			Liners Used			Perf. bottom. Perf. top	
Open flow after tubing_					The property of	Perf. bottom.	
Voltane			CASING CEME	Marian	aren.	3 8 8 6 8 6 7 1 2 7 X	
Rock pressure			CASING CEMEN			No. FT	Date
Oil							and the second second second
	bbls.	, 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	_INCHES
Fresh water	feet	feet	FEET	INCH	ES	FEET	_INCHES
Salt water	feet	feet	FEET_	INCH	ES	FEET	_INCHES
Drillers' Names	NIDN F	Ri6 -	4		*		And a set of
Remarks:		-00					
nove	R16	5 R					

1-23-82 DATE Foliert Stemos/15/2024
DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY			ADDRESS		-	
ARM		DISTRICT		OUNTY		× 4"
illing Material Used						
iner Loc	eation	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
						Not select
						-
				3	40	

		C(\$77_134 F)				
					1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
and the second						
illers' Names	Acces to the				4-770	
marks:						
marks;						
	I hereby certify I v	isited the abov	e well on this date.			
DATE						

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

OCT 7 - 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0488

Oil or Gas Well 645

Company UNION	DRIllING	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
Address		Size				
Farm HARRY MS	envller	16			Kind of Paci	cer
Well No. 5-170;	7-UC	13			Size of	
District 100k For	EK County RANDOIPH					i
Drilling commenced	1-82	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 inInch	Liners Used			Perf. top	
Open flow after tubing	/10ths Merc. inInch			A SECTION AND A SECTION AS A SEC	Perf. bottom	
Volume	Cu. Ft.	CASING CEMEN	NTED	SIZE	No. FT	Date
Rock pressure	lbshrs.	NAME OF SER	VICE COMPA	ANY		*
Oil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh water	feetfeet	FEET_	INCH	HES	_FEET	INCHES
Salt water	feetfeet	FEET_	INCH	HES	_FEET	INCHES
Drillers' Names						
Remarks:						
O.K. To	Releas					

10-4-82

Robert Stewart

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No					We	II No	
COMPANY		ADDRESS					
		COUNTY					
ming Material	Used						
iner		ation	Amount	Packer	Location		
		ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THI	CKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOS
		and the same of th					
	1		Production and State of the Sta				
	4						
						-	
	2						
				,			
	1.2						
illers' Names_	The state of the s						
marks:	3						
marks.							
	3						
		hereby certify I vi					

03/15/2024



State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

WALTER N. MILLER DIRECTOR

November 6, 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
RAN-0488 RAN-0536 RAN-0542 RAN-0590 RAN-0604 RAN-0653 UPS-2249	Harry McMullan, Jr., Est., #5-1707-UC Harry McMullan, III, #9B-1684-U Carl D. & Eileen Avington, #1-1726-U J. M. Huber, Corp., #2-1724 Coastal Lumber Co., #1-1723 Chapel Hill United Methodist Ch. #1-1710 Guy M. Foster/Mary Lee Settle, #2-1696-U	Middle Fork Roaring Creek Roaring Creek Middle Fork Middle Fork Roaring Creek Washington
UPS-2260 UPS-2283 UPS-2290 UPS-2306 UPS-2321 UPS-2325	Harry McMullan, #2-C William N. Gates, #1 (1662) Orville Smallwood, #1 (1664) Beulah M. Riffle, #1 (1663) Josephine Harris, #1 (1706) UDI-Burnside, #1	Washington Meade Banks Banks Warren Washington

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

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0488				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 N/A Section of NGPA Category Cod	de			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4939feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	UNION DRILLING, INC. Name P. O. Drawer 40 Street Buckhannon WV 2620 City State Zip Cod				
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Middle Fork District Field Name Randolph County W State	o ⊆ eftilo Hib doù s Tanace			
(b) For OCS wells:	Area Name Block Numb Date of Lease: Mo. Day Yr. OCS Lease Numbe	8 RRU edf			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Harry McMullan #5C 1707				
(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.)	Columbia Gas Transmission Corp. 004030 Name Buyer Corp.				
(b) Date of the contract:	Mo. Day Yr.				
(c) Estimated annual production:	NOT IN PRODUCTION YET MMcf.				
	(a) Base Price (b) Tax (c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<u>_2. 608</u>	2.608_			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.608	2.608_			
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency Date Received by FERC Date Received by FERC MAR 2 9 1982 Date Application is Completed Phone Number					

PARTICIPANTS: BUYER-SELLER CODE
WELL OPERATOR: Union Drilling, Inc. SED 019434
FIRST PURCHASER: Columbia Gas Trans. Corp 91982 004030
OTHER:
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 820401 - 103-083 = 0488 Usa Above File Number on all Communications Relating to Determination of this Well
Relating to Determination of This AVEI
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING
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?
O-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?/ Affidavit Signed_/
8-28. Other: Survey Logs Geological Charts
Structure Map 1: 4000 Map Well Tabulations
(5) Date commenced: 1-23-82 Date completed 1-30-82 Deepened
(5) Production Depth: 1928-33, 3204-08, 3506-10, 4706-18
(5) Production Formation: Bayard, Kiley Berson Elle
(5) Final Open Flow: 1/63M(F
(5) After Frac. R. P. 3cct 24 hrs.
(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
-17. Does lease inventory indicate enhanced recovery being done $\mathcal{M} \bigcirc$
-17. Is affidavit signed?
es official well record with the Department confirm the submitted information 03/15/2024
ditional information Does computer program confirm?
S Determination Objected to By Whom?
79

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

Date March 19 , 19 82

Operator's Well No. 5C - 1707

API Well No. 47 - 083 - 0488

State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

NGPA Section 103

		DESIGNATED AGENT	UNION DRILLING, INC.	
			P. O. Drawer 40	
			Buckhannon, WV 26201	
WELL OPERATOR_	UNION DRILLING, INC.	LOCATION: Elevation		
ADDRESS	P. O. Drawer 40	Watershed Cold	Run of Middle Fork River	
	Buckhannon, WV 26201	Dist. Middle Fk	County RandolphQuad. Cassit	
GAS PURCHASER_	Columbia Gas Transmission Corp.			
ADDRESS	P. O. Box 1273	Contract No.		
	Charleston, WV 25325	Meter Chart Code		
********	**************	********	***********	
Date surface drilling	was begun 1/23/82			
	hole pressure of the well and explain how e (G x L / 53.34 x Avg. T)	this was calculated:		
$P_1 = 300#$	G - 0.635 L = 3939' T	= .007 L + 520°R		
BHP = 331.				
	Police Police			
	AFFIDA	VIT		
ı Joseph (C. Pettey , having b		ling to law state of the C	
satisfies applicable existence at the tip produced and which began on or after I further, that I have determination is so	I for which this determination is sought a state or federal well spacing requirem me surface drilling began, which was applied to any other well producing gas February 19, 1977, and which was capable concluded, to the best of my information bught is a new onshore production well and which is inconsistent with this conclusion.	tents and the well is neplicable to the reservoir in commercial quantities of producing gas in on, knowledge and belief that I am not aware of	ir February 19, 19//; the well not within a proration unit, in ir from which gas is or will be ies or on which surface drilling commercial quantities. I state, ef, that the well for which this	
		. ,		
		Jessel C	tey, Vice President of Prod	
STATE OF WEST	VIRGINIA,	Joseph C. Pett	Key, Vice President of Prod	
COUNTY OF Ran	dolph , TO WIT			
I, Mellay	Alaghell, a Notary Public in an	nd for the state and	county aforesaid, do certify	
that <u>Joseph C. P</u>	ettey, whose name is signed to the	ne writing above, bear	ing date the <u>19th</u> day of	
March	, 19 <u>82</u> , has acknowledged th	e same before me, in	my county aforesaid.	
My term of o	my hand and official seal this <u>29</u> ffice expires on the day of	<u>3/3</u> , 19 <u>.</u>	<i>83</i> . 03/15/2024	
3 5 6				
(NOTARIAL SEAL		Mellout N	11 , One	
02 7 7				
		INO	otary Public	