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

TELEPHONE: (304) 348-3092

Date: January 19 , 19 81 Operator's Well No. _ 1658 API Well No. 47 - 083 0419

STATE OF WEST VIRGINIA State County Permit
DEPARTMENT OF MINES, OIL AND GAS DIVISION Harry McMullan Jr.Est. #18

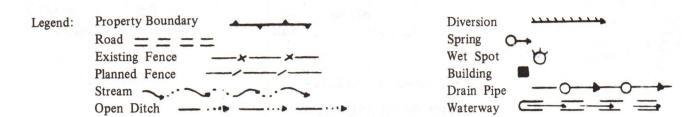
	OIL A	ND GAS WELL	PERMIT	
WELL TYPE:	Oil/ Gas/			
				/ Deep/ Shallow <u>X</u> /)
LOCATION:				ork River
	District: Middle Fork	County:_		Quadrangle: <u>Cassity</u>
WELL OPERATO	R UNION DRILLING, INC.		DESIGNATED	AGENT UNION DRILLING, INC.
Address	P.O. Drawer 40		Address_	P.O. Drawer 40
	Buckhannon, WV 26201			Buckhannon, WV 26201
OIL & GAS ROYALTY OWN	Harry McMullan, Jr. H ER Harry McMullan, III,	Est. Agent	COAL OPERA	TOR
Address	P.O. Box 8		Address _	
	Washington, NC 27889)	_	
Acreage	8, 663		COAL OWNER	R(S) WITH DECLARATION ON RECORD:
SURFACE OWNE				Tames LaRosa
	Westvaco		Address	420 Buckhannon Pike Clarksburg, WV 26301
Address	203 Randolph Ave.		_	
	Elkins, WV 26241		AND	105 S. Meridian St.
Acreage			Name	Indianapolis, IND. 46225
FIELD SALE (IF			Address A	International Coal Co.(Lessee) 119 W. Washington St.
Address_N	ot Determined at this tim	ne	_	Lewisburg, WV 24901
-				E WITH DECLARATION ON RECORD:
OIL & GAS INSP	PECTOR TO BE NOTIFIED		Name	
Name R	obert S. Stewart		Address	The state of the s
Address P	.O. Box 345		_	
J	ane Lew, WV 26378		UDI Lease #	765
		a remaining the state of		location under a deed/ lease X
				well operator from Harry McMullan, Jr.
	ion Drilling, Inc.	, 10	the undersigned v	ven operator from
(IF said deed, leas	se, or other contract has been record	,		
	ust 29 , 19 75 , in the office			
West, in O/G	Book 295 at page_	156 . A	permit is request	ed as follows:
PROPOSED WO	RK: Drill X / Drill deeper	/ Redril	Frac	ture or stimulate X
	Plug off old formation			The state of the s
	Other physical change in well (5
	other physical change in wen (specify)		JAN 2 0 1981
	—planned as shown on the wor	rk order on th	e reverse side he	ereof.
The above named				ny objection they wish to make or are required to E
				lays after the receipt of this Application by the
Department.	To must be fired with the Departmen	it of willes wil	unin inteen (13) d	lays after the receipt of this Application by the
	mit Application and the enclosed plat	and reclamation	n nlan have been n	nailed by registered mail or delivered by hand to
				mailing or delivery of this Permit Application to
	Mines at Charleston, West Virginia		ore the day of the	maning of derivery of this Terrine Application to
			UNION	DRILLING, INC
PLEASE SUBMIT (GEOPHYSICAL LO				03/15/2024
то:			Ja	sy (felly)
WEST VIRGINIA				Well Operator
CONSERVATION SION				ph C. Pettey
1615 WASHINGTO CHARLESTON, W		WKET BO	Its Produ	uction Manager

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

PROPOSED WORK ORDER

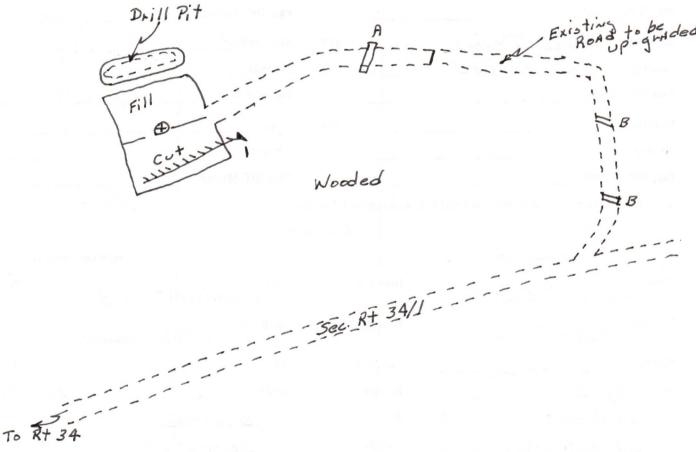
THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CO	ONTRAC'	TOR (IF	KNOW	N) _	U	NION DRILL	ING, INC.			
				Ad	dress	P.O. Draw	er 40	THE STREET		
							n, WV 262			
GEOLOGICAL	TARGE	T FOR	MATION	,		Elk		No.		
Estimate	d depth	of comp	leted we	11,	5700	fee	et Rotary	x/ Cab	le tools	/
						?feet				
								in the area? Yes	/ No	/ X/ a
CASING AND					4	24				
CASING OR TUBING TYPE	SPE	CIFICAT	IONS Welght per ft	New	Used	FOOTAGE For drilling	INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
Conductor	11 3/	4"		X		19'	19'		Kinds	1
Fresh Water	es 1/ 1			1777	PAGE -	15.67.0				
Coal				1					Sizes	LOVE TO
Intermediate	8 5/8	11		X		1100'	1100'	to surface		Warring .
Production	4 1/2	-		X		5500'	5500'	360 sks.	Depths set	
				19.		Maria de la companya della companya				
Tubing				1					Perforations:	
Liners				_						Bottom
			1	+	1				Тор	Bottom
		-	-	-	+					/ 10
Code As be pa THIS PER All provi	\$22-4-8 separate I art of the	a from to Form Iv-2 work for UST BE	shall not which a p	be receptaint	quired is soug	er well or dwe	lling within 20 r stimulating a	(v) if applicable, the control of the propose well where fracturing a Form IV-2 filed in control of the propose to the propose of the propose	d well. or stimulating is	s to
ford	lrillin	ıg	. This	perm	it shall	expire if				
operation	s have n	of comm	renced by	y	10-4-	81				
7-	w	00	Lu	de	M	4				
Depui	y Directo	or - Oil 8	Gas Di	vision						
		• • • • • • •	• • • • • • • • •	•••••	• • • • • •	• • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •		
The	following laration u	g waiver i inder Co	must be code 22-4	omple 4-20, i	ted by	the coal operato permit is to be	or and by any co	oal owner or coal lesses fifteen (15) days of	e who has record receipt thereof.	ded a
						WA	IVER			
proposed well The undersig	l location ned has	. If a min no object	e map extion to th	ists w	hich co k propo	vers the area of	f the well locati e at this location	of the coal under this on, the well location hon, provided, the well ns.	as been added t	o the mine map.
							By		12 12 12 16	
Date:			, 19		_		Its			



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.

Wooded



Comments: All commercial timber to be cut + stacked. All brush + small Trees

to be cut + disposed of before dint work begins. All slopes to be Z:/except

in Rock. Average road way grade ± 3% (constructed portion)

Signature: Cerello P. Will, P.O., Drawer 40, Buckhannon, W.VA. 472-4610

Agent Address Phone Nampsy2024

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

 $\alpha - 10$ August 7, 1981 Operator's 18A-1658 (Revised) API Well No. 47- 083-0419 HARRY MC MULLAN # 18A-1658 State of West Virginia Department of Mines Oil and Gas Division WELL RECORD Oil / Gas_XX / Liquid Injection / Waste Disposal_ (If 'Gas'', Production_XX / Underground storage / Deep_ Well Type: Oil / Shallow XX / Location: Elevation: 2650' Watershed Middle Fork River District: Middle Fork County: Randolph Quadrangle: Cassity Designated Agent UNION DRILLING, INC. UNION DRILLING, INC. Well Operator P.O. Drawer 40 P.O. Drawer 40 Address Address Buckhannon, WV 26201 Buckhannon, WV 26201 Permitted Work: Drill XX / Covert / Drill deeper. / Redrill Fracture or stimulate XX / Plug off old formation / Preforate new formation___/ Other physical change in well (specify)_ Oil & Gas Inspector for This Work: Robert Stewart Name: P.O. Box 345 Address: Jane Lew, WV 26378 Depth 5700 Elk Geological Target Formation: Depth of completed well, 5415 feet Rotary XX / Cable Tools Water strata depth: Fresh 2'' @ 50' feet; Salt; ----Coal seam depths: 40-44', 723-727' Is coal being mined in the area? No Work was commenced 4/07/81 , and completed 4/13/81 Casing and Tubing Program Specifications Footage Intervals Cement Fill-Up Casing or Tubing Type | Size Weight Used Left in well Grade For drilling (cubic feet) New **Pulled** 11 3/4' X Conductor Fresh Water Coal Intermediate 8 5/8" 20# 260 sks X 908.71' 908.71 Production | 4 1/2" 3966.851 10½# X 3966:85' 480 sks Tubing Liners DOWELL WATER FRACTURED 4/22/81 Well Treatment details: Speechly ----- 2802/06 ----- 45,000# Sand ---- 451 bbls water Riley & Benson ------ 3665/67, 3845½/49½ – 45,000# Sand ---- 462 bbls water JAN7 - 1982

Mcf/d

Gas: Initial open flow, Show

Static Rock Pressure, 800#

Final open flow, 462 mcf Mcf/d

(Well log on reverse side)

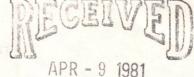
Oil: Initial open flow, _____ Bbl/d

Final open flow, -----

psig (surface measurement) after 24 hours shut in.

OIL 03/105/2024VISION WY DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



Robert Stewart

INSPECTOR'S WELL REPORDEDT. OF MINES

Permit No. 083-0419			KING.			
Company UNION DRILLING	6	CASING AND USED IN TUBING DRILLING	Left in Well	PACKERS	100	
address Buck HANNO.	-	Size				
		16		Kind of Packer.		
HARRY Mª Mille.	1	13				
Well No. 1658		10		S12. (1)		
District MIDDLE FORK County RAND	OIPA	814		10 mm 1 m		
		6 %		Depti set		
Drilling commenced 4-6-8/		53/16				
Drilling completedTotal depth		3		Perf 'p		
Date shotDepth of shot		2		Perf bottom.		
		Liners Used	-	. Peri · p		
Initial open flow/10ths Water in	Inch			Porf bett m		
Open flow after tubing/10ths Mcrc. in	Inch					
Volume	_Cu.Ft.	CASING CEMENTED	SIZE	No FT	Date	
		NAME OF SERVICE COMP.	ANY			
Rock pressurelbs	hrs.					
Oilbbls., 1st	t 21 his.	COAL WAS ENCOUNTERED) AT	_FEET	_INCHES	
Fresh waterfeet	fect	FEETINC	HES	_FEET	_INCHES	
Salt water feet	fect	FEETINC	HES	_FEFT	_INCHES	
	7'/	~~				
Drillers' Names UNION X	16					
Remarks: Move Ri6	<	3 PUD				
move XI6						
///						

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

mil Ma	DAY TO A THE COLOR WAS A STATE OF THE PARTY						
MPANY	A. Maryanini and A. Mar	and a finding to be a first the first of the	ADDRESS				
		DISTRICT			A 2 C A		
R.M.		CONTRACT LA CONTRACT AND ADDRESS OF THE PARTY					
						and may be already (hours agree)	
ing Macerial Used	article Charles (Marie Marie Charles) and Advance on Title (Marie Marie Marie Charles) and Marie Charles (Marie Charles)						
er Loca	ation	Amount	Packer	Location			
			BRIDGES	CASING	AND TU	IING	
PLUGE USED A	NO DEPTH PLACED			CASING AND TUBING			
CEMENT-THICKNESS	W000-812E	LEAD	CONSTRUCTION LUCATION	RECOVERED	SIZE	LOST	
MacCode Elementarion ところが自己を担いる。一つ間からを計画されているが、そうでは、可能性の目的はなっている。中では、利力では、利力では、 ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	again. A file (file of the separate file of the sep						
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Management of the Control of the Con							
rillers' Names					-		
marks:							

hereby certify I suited the above well on this date

DATE

RECEIVED

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

MOV 2 4 1981

OIL AND GAS DIVISION INSPECTOR'S WELL REPORT

Oil or Gas Well

				(61)	
Company VNION	DRIIIING	CASING AND TUBING	USED IN DRILLING	LE T IN	PACKERS
Address Buck	KHANNON	Size			
	McMV/len	16	***************************************	29 0 10	Kind of Packer
Well No. 1658	3	13			
	TOV Paralos	10			Size of
	ORK County RANDO/PH				
Drilling commenced	4-6-81	- 65%			Depth set
Drilling completed	Total depth	5 3/16		,	
		3		 	Perf. top
Date shot	Depth of shot	_ 2			Perf. bottom
Initial open flow	/10ths Water inInc	h Liners Used			Perf. top
Open flow after tubing	/10ths Merc. inIncl	h			Perf. bottom
Volune	Cu. Ft	. CASING CEMEN	NTED	SIZE	No. FTDate
Rock pressure	lbshrs				The state of the s
Dil	bbls., 1st 24 hrs	. COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water	feetfee				FEETINCHES
Salt water	feetfeet				FEETINCHES
Orillers' Names					INOIDS
Remarks:					1
6 1/ —	- Releas	50			
11 K / 1	1/0101				

DISTRICT WELL INSPECTOR 03/15/2024

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)							
2.0 Type of determination being sought: (Use the codes found on the front of this form.)		103 Section of N	NGPA	n/a Category Code			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	9.1¢ (12)		3850	feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	P. O Street	N DRILLING, Drawer 40		WV 26201 State Zip Code	019434 Seller Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Na	le Fork Dis	trict	WV State	fodt. Didene		
(b) For OCS wells:	Area Nar	La Nagaria		Block Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Harry McMullan #18A 1658						
(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 Corporation 004030 Name Buyer Code						
(b) Date of the contract:	Mo. Day Yr.						
(c) Estimated annual production:	NOT IN PRODUCTION YET MMcf.						
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate	(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.)		2.608_			2.608		
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency APR 1 1982 Date Received by FERC	Signature MAR	eff (.) 2 9 1982 ication is Complete	thy	ident of Prod Title 304) 472-4610 Phone Number	_		

FT7900806/2-2

FORM IV-54WC (12-78)

STATE OF WEST VIRIGNIA

DEPARTMENT OF MINES,

OIL AND GAS DIVISION

Date		March	2	6 , 1982
Operator's Well No.		18A -	1	658
API Well No. 47	-	083		0419
State		County		Permit

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

		DESIGNATED AGENTUNION DRILLING, INC.
		ADDRESS P. O. Drawer 40
		Buckhannon, WV 26201
WELL OPERATO	R_UNION DRILLING, INC.	LOCATION: Elevation 2650'
ADDRESS	P. O. Drawer 40	Watershed Middle Fork River
	Buckhannon, WV 26201	Dist. Middle ForkCounty RandolphQuad. Cassit
GAS PURCHASE	R_ Columbia Gas Trans. Corp.	Gas Purchase
ADDRESS	P. O. Box 1273	Contract No
	Charleston, WV 25325	Meter Chart Code
		Date of Contract
******	***************	*****************
	ng was begun 4/7/81	
	e (G x L / 53.34 Avg. T)	now this was calculated:
	ressure = $800 \# L = 5415' Avg$	g. $T = .007 L + 5200 G = .635$
BHP = 925.4	psia	
	AFFI	DAVIT
produced and white began on or after further, that I have determination is s	ich applied to any other well producing February 19, 1977, and which was cap we concluded, to the best of my informations as new onshore production well	rements and the well is not within a proration unit, in a applicable to the reservoir from which gas is or will be gas in commercial quantities or on which surface drilling pable of producing gas in commercial quantities. I state, ation, knowledge and belief, that the well for which this land that I am not aware of any information not described
in the application	n which is inconsistent with this conc	clusion.
STATE OF WES	T VIDCINIA	Joseph C. Pettey, Vice President of
	DCLID	Production
COUNTY OF U	11/1 / 1	
I, Mulau	Marsholl, a Notary Public in	and for the state and county aforesaid, do certify
that Joseph C. I	Pettey, whose name is signed to	the writing above, bearing date the 29 day of
Marsh	, 1987 has acknowledged	the same before me, in my county aforesaid.
Given under	my hand and affect to the second and affect to	the same before me, in my county aforesaid.
My town 6	my hand and official seal this 19	day of
My term of c	office expires on the day of	day of
NOTARIAL SEAL		
SEAL SEAL	29/4	all 11111 a
5 0 7	7 0 0	- Heary Winnsbell
34121	3	Notary Public

PARTICIPANTS: DATE: BUYER-SELLER COD
WELL OPERATOR: Union Drilling, Inc. SEP 019434
FIRST PURCHASER: Columbia Gas Trans. Com 91982004030
OTHER:
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 820401 - 103-083 = 04/9 Uso 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 Map 1: 4000 Map Well Tabulations
(5) Date commenced: 4 7 - 81 Date completed 4-13 -81 Deepened
(5) Production Depth: $2802-66$ $4565-49/2$
(5) Production Formation: Speechly, Riley A Denison
(5) Final Open Flow: 460 M(F
(5) After Frac. R. P 860# 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 NO
)-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?
73

DATE: