

IV-35 DEC 1 0 1984
(Rev 8-81)
OIL & GAS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES



## State of Mest Nirginia

Pepartment of Mines Oil und Gas Division

Date	December	6,	1984			
Operator's						
Well No. 2 - 2110						
Farm	UDI-Jef	fers #2	2			
API N	ю. 47 <b>-</b>	053	- 0362			

# WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production / Undergrou	n_/Wast und Storag	e Disposal e/ Deep	/ / Shal	.low_x_/)
IOCATION: Elevation: 671' Watershed R	locky Fork	Eighteenmi	le Creek	
District: Hannan County Maso				
CCMPANY UNION DRILLING, INC.				<u> </u>
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Casing	Used in	Left	Cerent fill up
DESIGNATED AGENT Joseph C. Vanzant, Jr.	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Size			
SURFACE CWNER Union Drilling, Inc.	20-16 Cord.			
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	13-10"			
MINERAL RIGHTS OWNER same	9 5/8	515.75'	515.75'	190 cf
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	7	2180.601	742.40'	59 cf
Jerry TephabockADDRESS Rtl, Box 101A, Ripley, WV 252		12100.00	, 150	
PERMIT ISSUED 10/10/84	4 1/2		3321.05'	159 cf
DRILLING COMMENCED 11/14/84	3			
DRILLING COMPLETED 11/19/84	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			:
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	oth350	00' feet
Depth of completed well 3415' feet	Rotary XX	/ Cabl	e T∞ls_	
Water strata depth: Freshfeet;	Salt_800	feet <u>ر 1295, ا</u>	1375'	
Coal seam depths: none	_ Is coal	being mir	ed in the	area? no
OPEN FLOW DATA -				
Producing formation Lower Huron	Pa	y zone dep	oth3244'	feet
Gas: Initial open flow show Mcf/d				
Final open flow 158 Mcf/d				
Time of open flow between ini-	tial and f	inal tests	3 days	MXE
Static rock pressure 740# psig(surface	ce measure	ment) afte	er 3 dayem	xx shut in
(If applicable due to multiple completion	n)			•
Second producing formation		y zone dej	oth	feet
Gas: Initial open flow Mcf/d	Oil: Ir	uitial oper	n flow	Bbl/d
Final open flow Mcf/d				
Time of open flow between ini				
Static rock pressurepsig(surfac	re measuren		U	ers shut in EC 26 1984 Everse side

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

2976/3244 - Lower Huron - 60,000# sand, 190 Bbls water and 1,500,000 scf nitrogen
Nowsco - 1 stage Foam Frac - 12/1/84

#### WELL LOG

			'	WELLE ILOG	···		
FORMATION	<b>COLOR</b>	HARD OR SOFT	TOP FEET	BOTTOM FEE	REMARKS Including indication of all fresh and salt water, coal, oil and gas		
Sand & Shale Big Lime Injun Berea Top of Devonian Shale Upper Huron			· ·	1300 1375 1505 2081 2(3)	1 1/4" stream salt water @800' 1" stream salt water @1295' 1" stream salt water @1375'		
	Lower Angola	Huron	2918 2972 3252	2925 3252 3415'	T.D. gas show		
fren 10	) (C.)	log,					
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	€ 828' (	op See					
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(Attach separate sheets as necessary)

	UNION DRILLING, INC.
We	11 Operator
By:	Joseph C. Litter
Date:	Joseph C.Pettey, Vice President of Production
	12/6/84

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including only encountered in the drilling of a well."





1)	Date:	September	20	19_84
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2) Operator's 2110 Well No.

State County Permit

# OIL & GAS DIVISION DEPT. OF MINES

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

APPLICATION	FOR	A WEL	I. WORK	PERMIT
ALL DICATION	I OK	A WEL	L WORK	E CHAINER

				v					
4) WELL TYP	E: A O	il	/ Ga	s <u> </u>					Y
	B (II	f "Gas", P	roduction			_/ Underground s	D I T -		Shallow A )
5) LOCATION: Elevation: 671.43 District: Hannan									
					Īna	County: Ma	5011	Quadrangle:	C Vanzant Ir
6) WELL OPE								Post Office I	C. Vanzant, Jr.
Address		t Offic				and a Act to Standards	Address		
		khannor	•		201			Buckhannon, W	W 26201
8) OIL & GAS				FIED			9) DRILLING C		
Name		y Tepha		1 A				on Drilling,	
Address		te 1, F					Address	Post Office I	
	Klp.	ley, W		<u>271                                    </u>				Buckhannon, W	W 26201
10) PROPOSEI	D WELL Y	WORK:	Drill	<u>X</u>	✓ Drill	deeper	/ Redrill	/ Stimulate_X	
•			Plug of	f old f	ormation	/ Perfora	ate new formation	1/	
			Other pl	hysical	change ir				
11) GEOLOGI	CAL TAR	GET FORM	MATION,	<u>De</u>	voniar	Shale			
12) Estima					3500	feet	•		
13) Approx	ximate trat	a depths:	Fresh,		?	feet; salt.	,?	feet.	
14) Approx	ximate coa	l seam dept	hs:		?	Is coa	al being mined in th	e area? Yes	/ NoXX/
15) CASING A	ND TUBI	NG PROG	RAM					•	
CASING OR	H	SPECI	FICATIONS	;	ŧ	FOOTAGE II	NTERVALS	CEMENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor		B H-40		Χ		30'	30'	to surface	Kinds
Fresh water		8 K-55	30	X		600'	600'	as required	by rule 15.05
Coal	3 3/	J K JJ	30					10401100	Sizes
Intermediate	7	K-55	23	X		1800'	800'	<b>100 10 10 10 10 10 10 10</b>	7
	4-1/		$10^{\frac{1}{5}}$	X		3500'	3500'	90 sacks	
Production	4-1/	2 0	102			3300	3300		Depths set
Tubing								ov as ru	aurea vy
Liners	<b> </b>							+ rue	Personations: 15.0
								-	Top Bottom
				<del> </del>				#	
	<u> </u>	L	L	<u> </u>	ii		1	1	
						OFFICE LIGE (			
······································	····		h			OFFICE USE O			
						DRILLING PE	KMII		
Permit number_	47-05	3-0362						Octob	er 10, <sub>19</sub> 84
<del>-</del>						-		Dat	e
This permit cove	ring the w	ell operato	r and wel	l locati	on shown	below is evidence	of permission gran	ted to drill in accordan	ce with the pertinent legal re-
quirements subje	ect to the c	onditions o	contained	herein	and on th	e reverse hereof. No	tification must be	given to the District Oil	and Gas Inspector, (Refer to
No. 8) Prior to the	he construc	ction of rea	ads, locati	ons an	d pits for	any permitted work work has commence	. In addition, the	well operator or his con	tractor shall notify the proper
	•						•		
The permitted w reverse hereof.	ork is as d	escribed in	the Notic	e and A	Application	on, plat, and reclam	ation plan, subject	to any modifications a	nd conditions specified on the
		0cto	ber 10	), 19	86	unless well	work is commence	d prior to that date and	prosecuted with due diligence.
Permit expires _		* * ***				uness wen	work is commence	d prior to that date and	prosecuted with due dingence.
Г			—Т						
Bond:	Ager	nt: <b>~</b>   1	Plat:	Casi	ng	Fee			
162	$\gamma\gamma$	711 r	nII	m	11/9	22 7	~	^	, /
100,	• • •	/ //	H		~ 14		Ylana	aret J.	Klasso.
									Sil and Cas
NOTE: Keep o	ne conv o	f this norm	it posted	at the	trilling la	cation	/ A <sup>n</sup>	ministrator, Office of O	n and Gas
	copy 0	ano perm	posicu						File