

IV-35 (Rev 8-81)



CIL & GAS DIVISION

## DEPT. OF MINES



# State of Mest Nirginia

Bepartment of Mines noise und Gas Division

Date_	Octo	October 8, 198						
Operator's								
Well No	•	1 - 20	)28					
Farm_	Elmer	Lowry	#1	····				
API No.	47 -	053	_	0347				

WELL OPERATOR'S REPORT OF

### DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	Stonecoal	l Run		
District: Hannan County Ma	ason	Quadrangle	<u>Apple</u>	Grove
COMPANY Union Drilling ,Inc.				
ADDRESS P.O. Drawer 40, Buckhannon, WV 2620	Casing	Used in	Left	Cerent
DESIGNATED AGENT Joseph C. Vanzant, Jr.	Tubing	Drilling		fill up Cu. ft.
ADDRESS P.O. Drawer 40, Buckhannon, WV 2620	1 <del>_</del>			
SURFACE CWNER Elmer F. Lowry	20-16			•
ADDRESS Ashton, WV 25503	Com.	· · · · · · · · · · · · · · · · · · ·		
MINERAL RIGHTS OWNER Same	13-10"	17'	17'	
ADDRESS	9 5/8	499.95'	499.95'	198 cf
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8			
	7	2145.05	703.35'	59 cf
Jerry Tephabock ADDRESS Rt.1, Box 101-A, Ripley 25271	,wv 5 1/2			
PERMIT ISSUED 4/6/84	4 1/2		3361.70'	160 cf
DRILLING COMMENCED 9/20/84	3			
DRILLING COMPLETED 9/26/84	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			•
ON		<u> </u>		
GEOLOGICAL TARGET FORMATION Devonian	Shale	Dep	th 3500	feet
Depth of completed well 3415' feet	Rotary X	x_/ Cabl	e T∞ls_	
Water strata depth: Fresh 390' 415feet	; Salt 741	',1290 <b>feet</b>		
Coal seam depths: 386/89	Is $coal$	o' being min	ed in the	area? no
	<del></del>	-		
OPEN ET CUI DATTA			•	
	Huron Pa	v zone dep	th 3224	fee
Producing formation Upper Huron, Lower		_		
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d	Oil: In	itial open	flow	Bb1/c
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d	l Oil: In	itial open nal open f	flow	Bb1/c
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in	Oil: In Fi	itial open nal open f inal tests	flow_ low_ 5 days <b>xx</b>	Bbl/G
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in  Static rock pressure 575#: psig(surf	Oil: In Fi Litial and fi Lace measure	itial open nal open f inal tests	flow_ low_ 5 days <b>xx</b>	Bbl/d Bbl/d
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in  Static rock pressure 575 # : psig(surf  (If applicable due to multiple completi	Oil: In Fi  Litial and fi  Lace measure  Lon)	itial open nal open f inal tests ment) afte	flow	Bbl/d Bbl/d <del>(XX</del> s YS shut i
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in  Static rock pressure 575#: psig(surf  (If applicable due to multiple completi  Second producing formation	Oil: In  Finitial and finace measure  Son)  Pa	itial open fral open final tests ment) afte	flow	Bbl/G Bbl/G GYS Shut in
Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in  Static rock pressure 575#: psig(surf  (If applicable due to multiple completi  Second producing formation  Gas: Initial open flow Mcf/d	Oil: In  I Finitial and finitia	itial open fral open final tests ment) after y zone depitial open	flow	Bbl/G Bbl/G GYS Shut in fee Ebl/G
Producing formation Upper Huron, Lower  Gas: Initial open flow odor Mcf/d  Final open flow 112 Mcf/d  Time of open flow between in  Static rock pressure 575# psig(surf  (If applicable due to multiple completi  Second producing formation  Gas: Initial open flow Mcf/d  Final open flow Mcf/d	Oil: In  Finitial and finitial	itial open nal open f inal tests ment) after y zone depitial open nal open f	flow	Bbl/GANS Shut in fee Bbl/GANS
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DETAILS OF PERFORMTED INTERVALS, FRACTURING OR STIPLLATING, PHYSICAL CHANGE, ETC.

Nowsco - 1 stage Foam Frac - 9/29/84

40 perforations - Superior Wireline

2948/84 Lower Huron - 60,000# sand, 155 Bbls water and 806,160 scf nitrogen 3944/3224

#### WELL LOG

	***		· · · · · · · · · · · · · · · · · · ·
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
Sand & Shale Clay Sand & Shale Clay Sand & Shale Coal Sand & Shale Big Lime Injun Berea Top of Devonian Shale Upper Huron Shale Lower Huron Shale Angola Shale	0 171 176 230 236 386 389 1390 1492 2002 2038 2891 2944 3226	171 176 230 236 386 389 1390 1492 1630 2038 2900 3226 3407 3415	1/2" stream water @390' 1" stream water @415' 1" stream salt water @741' 3" stream salt water @1290' 3" stream salt water @1630'  T.D. odor gas
65 3 27 4 834 Up Deci.			
-			<u>-</u>

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: () esed of the

Date: Joseph C. Pettey, Vice President of Production

10/8/84

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 end, encountered in the drilling of a well."



1)	Date:_	March	16	 1984
•				

2) Operator's Well No.\_

2028 47

053 - 0347 3) API Well No. State County

Permit

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION **APPLICATION FOR A WELL WORK PERMIT**

4) WELL T	YPE: A O	il	/ G	as	<u></u> /					
B (If "Gas", Production X			_/ Underground st	orage	/ Deep	_/ Shallow	<u>X</u> _/)			
5) LOCATION: Elevation: <u>682.49</u>			Watershed: S	tonecoal Ru	n					
	Dis	trict: <u>H</u> a	innan			_ County: <u>Ma</u>	son	Quadrangle:	Apple G	rove
6) WELL O	PERATOR_	Union	Drill:	ing,	Inc.		7) DESIGNATED	AGENT Joseph		ant, Jr.
Addre	ss <u>Pos</u>	t Offi	ice Dra	wer	40		Address	Post Office I	Drawer 40	
	Buc	khanno	on, WV	2	5201			Buckhannon, V	VV 2620	1
8) OIL & G	AS INSPEC	TOR TO	BE NOTI	FIED		9	DRILLING CO	ONTRACTOR:		
Name]	erry Te	phaboo	:k				Name <u>Unio</u>	n Drilling,	Inc.	
Addres		,	Box 1				Address	Post Office	Drawer 4	0
	Rip	ley, V	VV X	XX	25271			Buckhannon,	WV 262	01
10) PROPOS	ED WELL	WORK:	Drill	Χ	_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X</u>	
			Plug of	f old	formation	/ Perfora		1 - 7 - 7	लाइ।।ए	PEIN
						well (specify)			Ser C	2
11) GEOLOG	ICAL TAR	GET FOR								- J. J. J.
12) Estim	ated depth o	f complet	ed well,		3500	feet		ر الاستام الاستان	MAR 1 0 10	64
13) Appr	oximate trat	a depths:	Fresh, _		?	feet; salt,_	?	feet.		
14) Appr	oximate coal	seam dep	ths:		?	Is coa	l being mined in the	area? Yes OIL	& GAS DIV	15xt011
15) CASING	AND TUBE	NG PRO	GRAM				-		T. OF M	
CASING OR		SPEC	IFICATION	<b>S</b> .	11	FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACK	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	11-3/4		32	χ		301	30 '	(Guote Rety	Kinds	
Fresh water									- Rinds	
Coal						_			Sizes	
Intermediate	8-5/8		23	Χ		1000 882	1000082	to surface		1005
Production	4-1/2	J	101/2	X		3500'	3500'	as required		12.0.1
Tubing								by rule	1501	
Liners								7	Perforations:	
									Тор	Bottom
										Bottom
							•			
								ш		
	•									
					(	OFFICE USE O	NLY			
					, 1	DRILLING PER	RMIT			
_			47-053	3-03/	. 7					
Permit number			47-03.	3-034	- /		<del>-</del>		il 6,	19 84
This permit and	arina tha wa	ll amanata	المند المحمد م	1 14	<b>1</b>	tantan da ada a		Date		
quirements subj	ect to the co	nditions of	ontained	herein a	on snown and on the	reverse hereof. Noti	permission grante	d to drill in accordan- ven to the District Oil	ce with the per	tinent legal re-
No. 8) Prior to	the construc	tion of ro	ads, locati	ons and	d pits for a	anv permitted work.	In addition, the we	ell operator or his con	tractor shall no	tify the proper
district oil and a	gas inspector	24 hours	before ac	tual pe	rmitted w	ork has commenced.	.)			
The permitted v	vork is as de	scribed in	the Notic	e and A	pplication	n, plat, and reclamat	ion plan, subject to	any modifications ar	nd conditions s	pecified on the
reverse hereof.			April							
Permit expires			APILL	0, 1	. 300	unless well w	vork is commenced	prior to that date and	prosecuted with	ı due diligence.
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Bond:	Agent	: 1 F	Plat:	Casir	- 1	Fee				
I PART	1	DI	nll	m		215				
14 40CA	<u> </u>	/ I	//	1 1 / 1	Y	377		10.		
								THE	<b>←</b>	·
NOTE: Keep o	one conv of	thic nar-	it nostad -		rilling lass		Admir	nistrator, Office of O	il and Gas	
TOTE. Reep (	one copy of	rins beilli	ii posicu a	ir tite a	immig ioca	iuoii.				File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.