



CIL & GAS DIVISION DEPT. OF MINES



Sinte of Mest Virginia Department of Mines Wil und Ves Pivision

Date	December	21, 19	983
Operat			
Well N	o. 2-19:	23	
Farm	Western M	arylan	1 #2
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(Continue on reverse side)

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production / Underground	/ Was	te Disposal de / Deep	/ / Sha	· llow x /)
ICCATION: Elevation: 2180' Watershed Ty				4944
District: Roaring CreekCounty Rand				
District: Roaling cleared and				
COMPANY Union Drilling, Inc				
ADDRESS p.o. Drawer 40. Buckhannon, WV. 26201	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Joseph C. Vanzant. Jr.	Tubing		in Well	1 * 1
ADDITESS p.O.Drawer 40 Buckhannon, WV 26201	Size			
SURFACE CWNER Western Maryland Co.	20-16 Cond.			
ADDRESS 707 E. Main St. Richmond, Virginia 23219	13-10"			
MINERAL RICHIS OWNER Same	9 5/8			
ADDRESS	8 5/8	1052.75	1057-75	245513
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Phil Tracy ADDRESS Gen. Del. Ellamore 26267	5 1/2			
PERMIT ISSUED 10/28/83	4 1/2	5372.95		1330 c£
DRILLING COMMENCED 11/15/83	3	1 3163	A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
DRILLING COMPLETED 11/21/83	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REMORKING. VERBAL PERMISSION OBTAINED ON	used			
· ·	a financial and a financial an	Den	th 560	o' feet
GEOLOGICAL TARGET FORMATION Elk	Rotary	x / Cabl		
		feet		
Water strata depth: Fresh feet; Coal seam depths: None				area? Yes
Coal seam depths:	13 000	z 002.3		
OPEN FLCW DATA Alexander	,Elk	•	. 5240	
Alexander Producing formation Squaw Speechly Riley F	Renson P	ay zone dep)EN 3240	feet
Gas: Initial open flow 119 Mcf/d				
Final open flow 355 Mcf/d				
Time of open flow between init				
Static rock pressure 675 psig(surface		ement) afte	<u>24</u> hou	irs snut in
(If applicable due to multiple completion		,	. •	£
Second producing formation				Jeer
Gas: Initial open flow Mcf/d				Bbl/d
Final open flowMcf/d				
Time of open flow between init				
Static rock pressurepsig(surface				
	4 4 198.	100-		oroneo sido

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

Nowsco Water Fractured 12/5/83

1678/82 Squaw 45,000# sand and 402 bbl water 2838/78 Speechly 45,000# sand and 402 bbl water 3840/99 Benson 45,000# sand and 440 bbls water 4488/94 Alexander 45,000# sand and 400 bbls water 5001/240 Elk 45,000# sand and 445 bbls water

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOYTOM FEET	Including indication of all freshand salt water, coal, oil and s
Sand & Shale Big Lime	0 1426	1426 1480	
Injun Squaw Fifth Sand	1552 1676 2226	1610 1688 2240	
Bayard Elizabeth Warren	2273 2429 2474	2303 2444 2488	
warren Speechly Riley Benson	2848 3709 3834	2878 3733 3914	
Alexander Elk	4360 4998	4496 5064 Brallier	
		QTO	
		TD 5470	
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(Attach separate sheets as necessary)

Union Drilling, Inc Well Operator

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Date: Joseph C.Pettey, Vice President of Production

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."

WEST THE STANKS LINE

)	Date:	October	6,	1983	1
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2) Operator's 2-1923 Well No.

3) API Well No. 47 - 083 - 0832 State County Permit

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

.,	PE: A C	n i	/ G	as X	,					
	•		Productio	***		Underground s	отаче	/ Deen	/ Shallow	X
5) LOCATION: Elevation: 2180			/ Underground storage/ Deep/ ShallowX/) Watershed: Tygart Valley River							
District: Roaring Creek			County: Ra	ndolph	Quadrangle:		A CONTROL OF THE PROPERTY OF T			
) WELL OF	PERATOR_							ED AGENT Josep	h C. Vanzar	ıt. Jr.
Addres			ce Dra			- November -	Address	Post Office		
			n, WV	2620	-		1 Late 1 C55	Buckhannon,		The state of the s
OIL & GA	S INSPEC	TOR TO	BE NOTE	FIED			DRILLING	CONTRACTOR:		ON THE PERSON OF
	Phil T	racy			-			on Drilling,	Inc.	
Addres			eliver)				Address	Post Office		White Hamiltonia was a 1/4 in Anti-Million (Inches
and a second	<u>Ell</u>	amore,	WV	26267		,		Buckhannon,	WV 262 01	क्राच्याच्य
PROPOSE	ED WELL	WORK:	Drill	X /	Drill	deener	/ Redrill	/ Stimulate	X	
									世行ら	
						ell (specify)	to new tormatio	48	13/3	`•9
GEOLOG	ICAL TAR	GET FOR							44 667 -	1983
12) Estima						5600 _{feet}			<u></u>	1000
13) Appro	oximate trat	a denths:	Fresh.		50	feet salt		feet.		
14) Appro	oximate coa	seam dep	ths: 246	390.4	56.517	.827 . Is coa	being mined in t	he area? Ves X	©:۱ <u>,</u> & G	AS DIVISION
CASING A	AND TUBI	NG PRO	GRAM	,		840		he area? Yes X	TOE PIT	OF MIN
ISING OR	H		IFICATION		H	FOOTAGE IN	i i	CEMENT FILL-UP	1.	
bing type	Size	Grade	Weight per ft.	i s	Jæed	For deling	Left in weil	OR SACKS	PACKER	<i>1</i> 3
ductor	11-3/4		. per st.	Y	Jacob L	353. 20	20	(Cubic feet)	#	
water	11-2/3					- A& 20			Kinds	
			†							TWO TO THE PARTY OF THE PARTY O
mediate	8-5/8		2.3	x		900	900	300	Sizes	
ection	4-1/2		101/3	Ŷ		5600	5600	500	. .	
18	1	100	10-2			2000	3000	300	Depths set	
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	Webline and American American		***************************************	·		RILLING PER	······································			
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		.18			, .			Da		
Delinit Cove	ering the we	u operato Inditions c	or and well	l location	snown bei	low is evidence of	permission gran	ted to drill in accorda given to the District C	nce with the pertin	ent legal re-
ements subje		ction of ro	eads, locat	ions and p	its for any	v permitted work.	In addition, the	well operator or his con	ntractor shall notif	v the proper
ments subjects and the subjects of the subject of the subjects of the subject of the subj	the constru	r 24 hours	before ac	tual perm	itted work	has commenced)	-		
ements subje 8) Prior to	the constructors inspector	27 110413				lat, and reclamat	ion plan, subject	to any modifications a	and conditions spe	ماد مادی
ements subjected 8) Prior to ict oil and good permitted w	as inspecto		the Notic	e and App	lication, p					cined on the
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.