

IV-35 (Rev 8-8)

MAR 07 100 & GAS SION State of Hest Hirginia

Department of Allines

W. A. TION COMMISSION

Oil and or

CONSERVATION

Date	February	27,	1987				
Operator's							
Well	No	<u>l -</u>	2120				
Farm	U.S.A.	#1B					
-	ю. ⁴⁷ -		-	0015			
	BE HELD C		DENTI.	AL			

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 2510' Wat					
District: Union Con	unty Gran	t (Quadrangle	Blackbir	d Knob
COMPANY Union Drilling, Inc.					Cerrent
ADDRESS P.O. Drawer 40, Buckhannon,	WV 26201	Caşing	Used in	Left	fill up
DESIGNATED AGENT Joseph C. Pettey		Tubing	Drilling	in Well	Cu. ft
ADDRESS P.O. Drawer 40, Buckhannon,	WV 26201	Size	•		
SURFACE OWNER United States Forest Se	rvice	20-16 Cord.	,		
ADDRESS Potomac Ranger Dist., Rt.3, B	Sox 240	13-10"	30.00	30.00	
MINERAL RIGHTS OWNER		9 5/8	1517.60		631
ADDRESS		8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK_		7			
Donald Ellis ADDRESS 2604 Crab Apple	Lane, Fair	5 1/2		8323.34	943
PERMIT ISSUED 7/16/86	26554	4 1/2			
DRILLING COMMENCED 10/21/86		3			
DRILLING COMPLETED 12/8/86				8019.00	,.
IF APPLICABLE: PLUCGING OF DRY HOLI			Tubing	8019.00	
CONTINUOUS PROGRESSION FROM DRILLING REWORKING. VERBAL PERMISSION OBTAIN		Liners used			
ON				Control of the contro	
GEOLOGICAL TARGET FORMATION orisi	kanv		Dep	oth 800	O. % f
Depth of campleted well 8351'		Rotary XX	X / Cabl	.e T∞ls	
					,
	5 reer;	-			e area?
Water strata depth: Fresh 76		Is coal	being mu		_
Water strata depth: Fresh 76 Coal seam depths: none		_ Is coal	being mu	•	
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA				•	
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska	iny	Pa	y zone dej	oth 81	L35 [®]
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900	iny Mcf/d	Pa Oil: In	y zone dep itial ope	oth 81	135 N
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900	Mcf/d	Pa Oil: In Fi	y zone dep itial open nal open	oth 81 n flow flow	135*\ B
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900 Final open flow 15 MM Time of open flow 1	Mcf/d Mcf/d Mcf/d Detween ini	Pa Oil: In Fi tial and f	y zone dep itial open nal open inal test	oth 81 n flow flow s 2 h	B Ours
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900 Final open flow 15 MM Time of open flow 1 Static rock pressure 2546#	Mcf/d	Pa Oil: In Fi tial and f ce measure	y zone dep itial open nal open inal test	oth 81 n flow flow s 2 h	B Ours
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900 Final open flow 15 MM Time of open flow Static rock pressure 2546# (If applicable due to multiple	Mcf/d	Pa Oil: In Fi tial and f ce measure n)	y zone dep itial open nal open inal test ment) aft	oth 81 n flow flow s 2 h er 72 ho	B Ours ours shu
Water strata depth: Fresh 76 Coal seam depths: none OPEN FLOW DATA Producing formation Oriska Gas: Initial open flow 900 Final open flow 15 MM Time of open flow b Static rock pressure 2546# (If applicable due to multiple Second producing formation	Mcf/d	Pa Oil: In Fi tial and f ce measure n) Pa	y zone dep itial open nal open inal test ment) aft ay zone de	oth 81 n flow flow s 2 h er 72 ho	B Ours ours shu
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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Halliburton - 1 stage Frac - 1/7/87

8074/8135 - Oriskany - 218,500# sand, 5000 gal methanol, 2000 gal fluid and 29 ton liquid CO2

WELL LOG

•		W.	نكلا نست	
FORMATION	COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresand salt water, coal, oil and ga
	Red Shale	. 0	147	
	Sand	147	214	
	Sand & Shale	214	297	·
	Red & Gray Shale	297	480	
	Sand & Shale	480	872	l" stream water @765'
	Base of Hampshire	872	1114	T Selemi Matel 6,02
	Pound Sandstone	1115	1218	
	Briery Gap Sandston	ie 1539	1558	
	First Sand	2381	2412	
	Second Sand	2640	2657	
	Harrell Shale	6721	7134	
	Tully Horizon	7134	7150	
	Upper Marcellus	7522	7542	
•	Purcell Limestone	7542	7618	
	Lower Marcellus	7618	7658	
	Tioga Metabentonite	7658	7663	
	Needmore	7672	7948	
1.0	Oriskany	7948	8162	• • • •
	Helderberg	8162	1	TD Gas Check @TD 4/10ths thru 7" w
	9 .		*CONCLINE WAS AN ARMINISTRATION OF CONCERNMENT AND ARMINISTRATION OF CONCE	= 900 mcf
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	•			
			•	
	·			
		Charles .	No.	.€
		a. A. C.		
				‡
	•			
		P		•
	•			

(Attach separate sheets as necessary)

Union Drilling, Inc. Well, Operator

By: Vasylo folly

Date: Joseph C. Pettey, Vice President of Production

2/27/87

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 of a well."

NOV 1 0 1988

FILE COP FORM WW-2(B) (Obverse)

7/85

DIVISION OF OIL & GAS **TO BE HELD PERFECTION OF OIL & GAS

1)	Date: June	<u> 17</u>		12.86
	Operator's	2120		d'
3)	API Well No.	47	-023-0015	
٠,		State	County	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELLTYP	E: A Oi	l	/ Gas	XX XX	/	/ Underground s	torage	/ Deep <u>XX</u>	/ Shallow	/)
5) LOCATION		vation:		***************************************		Waterched: F		Jordan Run		
3) LOCATION	Dis	rict: U	nion	94.	3 2			Quadrangle:B		inob 253
6) WELLOPE	RATOR	Union	Drilli	ng,I	NCCOD	E: 50550	7) DESIGNATED	AGENT Joseph	C. Pettey	
Address	Pos	t Offi	ce Dra	wer	40		Address	Post Office D	rawer 40	
radicss			n, WV					Buckhannon, W		
8) OIL & GAS							9) DRILLING CO	ONTRACTOR:		
Name Do			*				Name Unio	n Drilling, I	nc.	
Address			b Appl	e La	ne		Address	Post Office		
Audress			, WV					Buckhannon,	WV 26201	
			Drill_X			deeper	/ Pedrill	/ Stimulate_XX	7	
10) PROPOSE	D WELL I	VUKK:				/ Perfora			**************************************	
			_							
			Other pr	iysicai ∩r	change n	wen (specify)				
						feet				
12) Estima	ted depth c	of complete	ed well, _	S 1/	150			feet		
13) Appro	ximate trat	a depths:	Fresh,	-0 /-	7.50				/ No	, .
						Is co	al being mined in the	e area? Yes	/ 190	
15) CASING A	ND TUBI	NG PROC	GRAM						te .	_
CASING OR	SPECIFICATIONS Weight			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS	PACKERS			
TUBING TYPE	Size	Grade	per ft.	New	Used	For drilling	Lest in well	(Cubic feet)		
Conductor	13-3/	8		X		30'	301		Kinds	
Fresh water										
Coal									Sizes /	
Intermediate	9-5/8			Х		2500'	2500'	to surface	By Kule	:15,05
Production	5-1/2			X		8000'	8000'	as required	Depths set	
	<u> </u>							800 SKS		FOURE
Tubing								By Pule 1501	Perforations:	
Linc.s								Horton Car	Тор	Bottom
	 				-				100	Doctoria
	<u> </u>									
	<u> </u>							1	<u> </u>	
									•	
						OFFICE USE	ONLY			
						DRILLING PE	RMIT			•
								*	7 40	¹⁹ 86
Permit number_	4	<u>7-023</u>	-0015			•		J <u>T</u> Dat	11y 16	
This permit cover quirements subjection 8) Prior to the district oil and a	ering the weet to the constructions inspects	ell operate onditions tion of ros	or and well contained ids, locations s before an	l locati herein ons and	on shows and on the pits for	n below is evidence ne reverse hereof No any permitted work work has commence	of permission grant diffication must be g In addition, the ved.)	ted to drill in accordar iven to the District Oil well operator or his con	and Gas Inspecto stractor shall notif	r. (Refer to fy the proper
	ork is as d	escribed in	the Notic	e and A	Application	on, piat, and reciam	ation plan, subject	to any modifications a	nu conuntions spe	ciried on the
reverse hereof.		1177 1	6, 19	ጸጸ		unless wel	l work is commence	d prior to that date and	prosecuted with c	tue diligence.
Permit expires		ary r	0, 10			unicss wer	i work is commence	a prior to that date and	p, 00000	
			т			7		~	•	
Bond:	Agent	: I	lat:	Ca,s:	ing	Fee WPCP	Ş&E	Other	7	•
V	4		M	\mathcal{U}_{-}	0	12111 Ac	2 AL		/ ~	
	Ar1.		177	10	J 19	624/ LT.	~~ L/Y-/-L	// //	'////	
							// /	1/1/1		
						Braditure	C/2/			
NOTE: Keep of	one copy o	f this pern	nit posted	at the	drilling lo	ocation. D	irector, Di	vision of Oil	and Gas	File
			42		- F 1h - A 1	ODI ICANTIS COD	Vior instructions to	o the well operator		