



IV-35 (Rev 8-81)

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Department of Alines
Oil and Cas Pivision

Date		1987	
Operator Well No.		2527	
Farm	Berg Uni	t #2	
API No	47 <u> </u>	23 -	0017
TO BE HE	LD CONFI	DENTIAL	ı

(Continue on reverse side)

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 2848 Watershed Big District: Union County Gra	Run of Jont	ordan Run	Blackbi	rd Knob
District:County		zuadi ai igic		
OMPANY Union Drilling, Inc.				
DDRESS P.O. Drawer 40, Buckhannon, WV 26201	Caşing	Used in	Left	Cement fill up
ESIGNATED AGENT Joseph C. Pettey	Tubing	Drilling	in Well	Cu. ft.
DDRESS P.O. Drawer 40, Buckhannon, WV 26201	Size			
SURFACE OWNER Rohrbaugh Brothers Partnership	20-16 Cord.			
ADDRESS Box 224, Calverton, VA 22016	13-10"	40.00	40.00	
MINERAL RIGHTS OWNER same as surface	9 5/8	4166.65	4166.65	1705 cf
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Phil Tracy ADDRESS P.O. Box 2536, Elkins, WV 26241	5 1/2		8815.61	851 cf
PERMIT ISSUED 3/5/87	4 1/2		0013.01	031 01
DRILLING COMMENCED 3/12/87	3			
DRILLING COMPLETED 4/10/87	2 3/8"		8922.05	,
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Oriskany		Dep	th 8595	/8664 fee t
	Rotary XXX			
Water strata depth: Fresh 43' feet;		— ^{one} feet		
Coal seam depths: none		being mir	ed in the	e area? no
OPEN FLOW DATA			,	
Producing formation Oriskany	Dat	z zone der	oth 85	95/8664 f eet
Gas: Initial open flow 64 Mcf/d				
Final open flow 1,801 Mcf/d				
Time of open flow between init			,	
Static rock pressure 2850# psig(surfac				and the second
(If applicable due to multiple completion				
Second producing formation		y zone der	oth	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init				

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Halliburton - 1 stage Frac - 5/13/87

8595,8596,8597,8598,8599,8600,8601,8602,8608,8609,8610,8611,8612,8622,8623,8626,8626,8628,8629,8630,8642,8645,8646,8659,8662,8663,8664

Oriskany - 466,800# sand, 65 ton CO2, and 5155 bbls fluid

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres
Ground Level			and salt water, coal, oil and ga
Dirt	0	10	·
Sand & Shale	10	12	
Red Shale	12 56	56	
Sand & Shale	59	59 340	
Top of Hamshire Group	340	2233	
409Top of Fore Knobs	2233	4047	
409Top of Scherr Group	4047	6613	
443Sycamore	6613	6693	
५३४Harrell Shale ९५४ Tully	7602	7932	•
856 Upper Marcellus	7932	7941	
859Purcell	8195	8218	
257 Lower Marcelluc	8218 8290	8290	
Needmore Shale	8346	8346 8470	
Oriskany	8470	8845 TD	Cha Charle And
•		G043 1B	Gas Check @DC = 64 mcf
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	Policifiques	BERNOTTER	
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(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By: Joseph C. folly

Date: Joseph C. Pettey, Vice President of Production 6/4/87

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 coult, encountered in the drilling of a well."

FORM WW-2(B) FILE COPY

(Obverse)
7/85
PECETVEII



TO BE HELD CONFIDENTIAL

STATE OF WEST VIRGINIA

			.DEP.	ARTMI	ENT OF	ENERGY, OII	. AND GAS DIVI	SION	
DIVISION	v OF OI	L.& GA	S	API	PLICATION	ON FOR A WEL	L WORK PERMIT		
4) WELL TYP	ENT O	ENER	gy Co	X_	,				
4) WELL ITP	: A UI	I	enduction			/ IInderground	storage	_/ Deep _X	/ Shallow/)
5) LOCATION	•	vation:	0040			Watershed:	Big Run o	<u>f Jordan Ru</u>	n 4/00
5) LOCATION		rict:	•	200 1 10	9	County:	Grant 028	Quadrangle: R	lackbird Run 255
6) WELLOPE	RATOR	Unior	Dril	ling	CODE	: 50550	7) DESIGNATED	AGENT _losep	h C. Pettey
Address			Offic				Address	Post Offic	<u>e Drawer 40</u>
		Buckh	annor	W.	<i>I</i> 26	201			, WV 26201
8) OIL & GAS	INSPECT						9) DRILLING CO		
Name	Do	nald	Ellis	·			Name		11ing, Inc.
Address			ab Ar				Address		ce Drawer 40
	_Fa	irmor	it, W		5554				n, WV 26201
10) PROPOSED	WELL V	WORK:	Drill		/ Drill	deeper	/ Redrill	/ Stimulate	<u> </u>
			-				rate new formation		
11) GEOLOGIC	CALTAR	GET FOR	MATION,	<u>U1</u>	<u>riska</u>	<u>ny</u>			
12) Estimat	ed depth o	of complete	ed well, _	9,	500	feet	t ,	Foot	
13) Approx	imate trat	a depths:	Fresh,						/ No. /
						IS C	oai being innied in th	e area? Yes	
15) CASING A	ND TUBI				81	FOOTACE	INTERVALS	[] CEMENT FILL-UP	PACKERS
CASING OR TUBING TYPE		SPEC i	IFICATIONS Weight	1				OR SACKS	
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	Kinds
Conductor	20"	L		X		below a	as needed	Wateror	nineable coal
Fresh water	13" -	- to	be ru	n to	30	n Ciferra	add Hadad	sul) enco	
Coal	2 - 7 / 0	NT 00	40 8	x	wood	4150	4150	as required	NEAT
Intermediate	9 5/8 5 1/2	N-80 N-80	36	X X		9300	9300	to surface	Depths set
Production	5 1/4	N-80		-		3300			
Tubing Liners									Perforations:
Liners									Top Bottom
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				. 43	ŧ				
****						OFFICE FICE	ONIT N		
						OFFICE USE			
				_	8	DRILLING P	CKIVII		- 07
Permit number_	47-	023-	001	7			***************************************	MARCH 5	1987
								Da	··· -
This permit cove	ring the w	ell operat	or and wel	ll locatio	n shown	below is evidence	e of permission gran	ted to drill in accorda	nce with the pertinent legal re-
quirements subje	ct to the c	onditions	contained	herein a	nd on the	reverse nereor N	otification must be g In addition, the	iven to the District Oil well operator or his co	and Gas Inspector, (Refer to ntractor shall notify the proper
district oil and g	as inspecto	or 24 hour	s before a	ctual per	rmitted w	ork has commen	ced.)		
The permitted w	ork is as d	escribed in	n the Notic	e and A	pplication	n, plat, and recla	mation plan, subject	to any modifications	and conditions specified on the
reverse hereof.	8 A .			100	Ω.				
Permit expires _	<u>MA</u>	PCH	\rightarrow	140	1	unless w	ell work is commence	d prior to that date and	d prosecuted with due diligence.
Bond:	Agent	-:]	Plat:	Casi	ng l	Fee WBQ	S&E	Other	
20114	1.60		MC !	100/	- 1	376 /			
		/		rijr	<u> </u>	(1)		700	
ar ar					and the second	81	Anh II	John work	(m)
NOTE: Keep o	חפ כמשע מ	f this nerr	nit posted	at the d	rilling loc	ation.	Director, Di	vision of Oil	and Gas
MOIE. Reep 0	copy o							104 1/6	Egaret Mels
		Sec	the rever	se side o	f the AP	PLICANT'\$ CØ	PY for instructions t	o the well operator.	//