



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of West Birginia

Department of Mines Oil and Cas Pivision

Date December 4, 1986
Operator's
Well No. 1 - 2144
Farm Vernon Haslacker #1
API No. 47 - 023 - 0014
CONFIDENTIAL

WELL OPERATOR'S REPORT

of

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE
Charles and the Control of the Contr						

WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergrou				llow/)
LOCATION: Elevation: 2115' Watershed No.	rth Bark I	unico Cro	n le	
District: Union County Grant	t (Quadrangle	Plackhi	rd Vnoh
		zanar arigi	- BlackDi	LIG KHOD
COMPANY Union Drilling. Inc.				
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Caşing	Used in	Left	Cement
DESIGNATED AGENT Joseph C. Pettey	& Tubing	Drilling		fill up Cu. ft.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Size			
SURFACE. OWNER vernon Haslacker	20-16	17.00	17.00'	
ADDRESS Rt.3, Box 152, Maysville, WV 26833	Cond. 13-10"			
MINERAL RIGHTS OWNER same as surface	9 5/8		<u>298.35'</u> 2581.13'	1
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Phil Tracy ADDRESS P.O. Box 2536, Elkins,WV			7955.29'	681 cf
PERMIT ISSUED 4/21/86	4 1/2		7933.29	991 CI
DRILLING COMMENCED 6/12/86	3			
DRILLING COMPLETED 8/6/86				
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2.375		7788.46	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON	useu			
GEOLOGICAL TARGET FORMATION Oriskany		Dept	-h 8300	o' feet
Depth of completed well 7980' feet R	otary XXX	_/ Cable	Tools_	
Water strata depth: Fresh 245',330 feet;	Salt	feet		
Coal seam depths: none	Is coal	being mine	ed in the	area?_no_
OPEN FLOW DATA		•		
Producing formation Oriskany	Pay	zone depi	±h	feet
Gas: Initial open flow 400 Mof/a	Oil. Thi	tial open	£1~.	DL7 /3
Final open flow / N/A 2500 Mcf/d	Fin	al open fi	Low	Bbl/d
Time of open flow between initi				
Static rock pressure N/A psig(surface		_		
(If applicable due to multiple completion-				
Second producing formation		zone depi	th	feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow Mcf/d	Oil: Fin	al open fi	Low —	Bbl/d
Time of open flow between initi				
Static rock pressurepsig(surface	measurene	nt) after	hou	rs shut in

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

Halliburton - 1 stage frac - 9/23/86

Oriskany - 7724/7762 - 226,500# sand, 2355 gals water, 5000 gal methanol and 28.5 tons C

WELL LOG

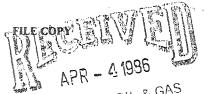
		₹ 5.		
				REMARKS
FORMATION	COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fres
		e de la companya de		and salt water, coal, oil and ga
	Sand & Shale	0	335	1 1/2" stream fresh water @245'
	Red Sandstone	335	356	1" stream fresh water @330'
	Red Rock	356	420	1/2" stream fresh water @468'
	Shale	420	562	2 1/2" stream fresh water @540'
	Gray Shale	643	650	,
	Sand & Shale	650	6740	
	Harrel Shale	6740	6924	
	Tully Limestone	6926	6950	
	Chaneysville Limeston		7052	
	Upper Marcellus	7346	7370	. •
	Purcell	7372	7440	references
	Lower Marcellus	7442	7496	
	Needmore	7498	7605	
	Oriskany	7607 .	7814	
	Helderberg	7816	7918	
		•	7980'TD	Gas check @TD 110/10ths thru 2"
				= 442 mcf
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Α.	1			
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(Attach separate sheets as necessary)

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 entity, encountered in the drilling of a well."

FORM WW-2(B) (Obverse) 7/85





1)	Date: Apri	1.1		. 13	86
	Operator's Well No.	2144			
3)	API Well No.	47	-023-0014		
		State	County		Permit

County

Permit '

File

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AN SECTION OF STREET	me. A o			_						
4) WELLTY						/ Ilnderground e	torace	/ Deep <u>XX</u>	(61.11.	
5) LOCATIO	N: Ele	vation: _	2115	!	<u> </u>	Watershed: _1	North Fork I	_/ Deep AA unice Creek	_/ Shallow	/)
·	Dis	trict: <u>U</u> I	nion			County: (Grant	Quadrangle: B	lackbird Kn	ob
6) WELL OF	ERATOR_	<u>Union</u>	Drill:	ing 🖯	COI	DE: <u>50550</u>	7) DESIGNATED	AGENT Josep	h C. Pettey	
Addres	s <u>Po</u>	St Uii	fice Di	<u>cawer</u>	40		Address	Post Office	Drawer 40	
			<u>non, W</u>		<u> 26201</u>	······		Buckhannon,	WV 26201	
8) OIL & GA	Dena l	dell	s Ph			acu	9) DRILLING CO Name Union	ONTRACTOR: Drilling, I	nc.	
Addres	s -260	4 Cral	=Apple	L ar	ie Po	Box 2536	Address	Post Office		
	Eai	rnont,	-WV	265	4 ELA	MSWV 20	6241	Buckhannon,		
10) PROPOSE	ED WELL V	WORK:	Drill	<u> </u>	_/ Dril	l deeper	/ Redrill	/ Stimulate		
			Plug of	f old i	ormatio	n/ Perfora			-	
							·····		·	
11) GEOLOG	ICAL TAR	GET FOR	MATION	Or	iskar	y 375				
12) Estim	ated depth o	f complet	ed well,	83	.00	feet				
14) Appro	ximate coal	seam dep	ths:			Is coa	al being mined in the	area? Yes	/ No_XX	
15) CASING	AND TUBII	NG PRO	GRAM							
CASING OR TUBING TYPE		SPEC	IFICATIONS	i		FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS	
TODING ETTE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	A CONTRACTOR OF THE CONTRACTOR	
Conductor	11-3/4		32	Χ		30 '	30'		Kinds	
Fresh water										***************************************
Coal		····							(Sixes)	
Intermediate	9-5/8			_X		XXXXX2500	XXXXX2500	to surface	Per Rule.	15 DE
Production	5-1/2			_X		83001	8300 '	as required	Depths set	
Tubing		· · · · · · · · · · · · · · · · · · ·						Bukur	15.01	
Linc.s									Perforations:	
									Тор	Bottom
							41			
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						DRILLING PER	RMIT		······································	William Commission of the Comm
mtait	45	7-023	-0014			*		Λ.		O.C
Permit number_	- I	020	OOLT	***************************************		10			oril 21	19 86
This permit cove	ring the we	Il operato	r and wall	locatio	n shown	holow is avidence a	6	Dat		
quirements subje	ct to the co	nditions c	ontained h	erein a	nd on th	e reverse hereof Notice	i permission grante	d to drill in accordan	ce with the pertine	nt legal re-
o. 8) Prior to th	e constructi	on of road	ds, locatio	ns and	pits for a	my permitted work.	In addition, the we	en to the District Oil ll operator or his con	and Gas Inspector, tractor shall notify	(Refer to the proper
and g	as mspector	24 HOUIS	Deloie ac	tuai pei	innited v	voi k nas commenced	.)		d from song	Frankinsk
The permitted we	ork is as des	cribed in	the Notice	and A	pplicatio	n, plat, and reclamat	tion plan, subject to	any modifications as	nd conditions speci	fied on the
reverse hereof.	Ar	ril	21. 1	988						
Permit expires _	2.1	71 11	<u> </u>	500		unless well v	work is commenced	prior to that date and	prosecuted with due	e diligence.
Bond:	Agenta	D	let.	Cast	20	Foo LIDOR	657		* ******	
	Agent:	1 4	Int:	Casi		Fee WPCP	S&E (Other	7	
	AUB		<u> </u>	\Box	<u> </u>	3456 645	100		1 2 100	is ¥
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NOTE: Keep one copy of this permit posted at the drilling location.