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IV-35 (Rev 8-81)



## State of Mest Nirginia

Department of Alines
Oil und Cas Pivision

Date	July	23,	1987					
Operator's								
Well N	io	2 -	2537					
Farm_	Paul H	ylbe	rt #2					
APT No	47 -	- 09	5 -	1109				

DIMISION OF OIL & GAS DEPARTMENT OF ENERSY

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL	TYPE:	Oil/ Gas_X/ Liquid Inject (If "Gas," Production/ Underg	ion/Was round Stora	te Disposa ge/ Dee	l/ p/ Sha	llow <u>x</u> /)		
LOCAT	NOI:	Elevation: 943.70' Watershed	Camp Mist	ake Run				
		District: Centerville County			e West U	nion		
COMPA	MA n	nion Drilling, Inc.						
ADDRE	ESS <u>P</u>	.O. Drawer 40, Buckhannon, WV 2620	Caşing	Used in	Left	Cement		
DESIG	NATED	AGENT Joseph C. Pettey	Tubing	Drilling	1	fill up Cu. ft.		
ADDRE	ESS <u>P</u>	.O. Drawer 40, Buckhannon, WV 2620	Size					
SURFA	CE. OW	NER see back	20-16					
			Cond.					
MINE	RAL RIC	GHTS OWNER see back	13-10"			-		
ADDRE	33S		9 5/8	1097 40	1087.40	220 5		
OIL F	AND GAS	S INSPECTOR FOR THIS WORK	8 5/8	1087.40	1087.40	330 cf		
obert	Lowth	ner ADDRESS Gen. Del., Middlebourne	, 7			<u> </u>		
PERMI	T ISS	UED 6-17-85 WV 26149	5 1/2					
		OMMENCED 5-12-87	4 1/2	_	4969.00	284 cf		
DRILI	ING O	OMPLETED 5-17-87	3					
		BLE: PLUGGING OF DRY HOLE ON	2			-		
REWOR	RKING.	PROGRESSION FROM DRILLING OR VERBAL PERMISSION OBTAINED	Liners used	2.375" Tubing	4821.20			
			<u> </u>		L	<u> </u>		
•		TARGET FORMATION Devonian Shale						
		of campleted well 5325 feet						
		strata depth: Fresh 83/378 feet	-	feet		•		
•	Coal :	seam depths: 83/85	Is coal	being min	ed in the	area? No		
OPEN	FLOW 1	***			•			
	Produ	cing formation Riley, Benson	Pa	y zone dep	th 4868	feet		
	Gas:	Initial open flow 21 Mcf/d	Oil: In	itial open	flow	Bbl/d		
		Final open flow 880 Mcf/d	Fi	nal open f	low	Bbl/d		
		Time of open flow between in						
	Statio	c rock pressure 1400 psig(surf	ace measure	ment) afte	r 48 hou	urs shut in		
	$(If \alpha)$	pplicable due to multiple completi	on)					
	Secon	d producing formation	Pa	Pay zone depth feet				
	Gas:	Initial open flow Mcf/d	Oil: In	Oil: Initial open flow Bbl/c				
		Final open flow Mcf/d	Oil: Fi	nal open f	low	Bbl/d		
		Time of open flow between in	itial and f	inal tests	hc	ours		
	Stati	c rock pressurepsig(surfa	ce measurem	ent) after	hou	ırs shut in		
				<i>(</i> 2				

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

Halliburton - 2 stage foam frac - 5-27-87

4449/54 - Riley - 50,000# sand, 748 Bbls. fluid, 645,000 Scf nitrogen 4486/88

4863/68 - Benson - 50,000# sand, 740 Bbls. fluid, 109,000 Scf nitrogen

## WELL LOG

		T	REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
	101 1221		and salt water, coal, oil and gas
Red Rock	<b>O</b> .	56	
Sand & Shale	56	83	
Coal	83	85	1/2" stream water at 83'
Sand & Shale	85	139	•
Red Rock	139	160	
Sand & Shale	160	474	1/2" stream water at 378'
Red Rock	474	478	
Sand & shale	478	669	DECSIVED
Red Rock	669	1073	7 2 5 5 4 V P
Sand & Shale	1073	1258	
Red Rock	1258	1312	JUL 24 1987
Sand & Shale	1312	1767	- 10 - 1007
Little Lime	1767 .	1787	DIVISION OF OIL & GAS
Big Lime	1787	1796	DEPARTMENT OF ENERGY
Big Injun	. 1880	1974	
Weir	2160	2268	
Riley	4448	4496	
Benson	4860	4872	
✓ Alexander	5167	5184	
		_5325 TD	Gas check at D.C 4/10 thru 1"
·			w/ water = 21 Mcf
5.2		i	
•			
rface Owners:	•		Mineral Rights Owners:
			mineral Rights Owners:
Karen J. Osborne			Sam Horton
13405 Kingsman Road			807 Victoria Avenue
Woodbridge, VA 22193			Williamstown, WV 26187
Fred Dotson c/o K.J. Osborne		·	Edward Mullooly
13405 Kingsman Road			P.O. Box 883
Woodbridge, VA 22193			Weston, WV 26452
*			weston, wv 26452
Rodney Dotson c/o K.J. Osborne			Frank Butler
13405 Kingsman Road	1		Route 5, Box 215
Woodbridge, VA 22193			Staunton, VA 24401
Kerin Dotson c/o K.J. Osborne		1	
13405 Kingsman Road	l .	1	
Woodbridge, VA 22193		•.	

(Attach separate sheets as necessary)

Union Drilling, Inc.
Well Operator

well oberami

Date:

Joseph C. Pettey, Vice President of Production

7-23-87

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 will, encountered in the drilling of a well."

FILE COPY

MAY 3 0 1985



Date:	ubiti	2)	 19_00
Operator's Well No.		-168	

State

3) API Well No. \_

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

4)	WELL TY	PE: A O	il	/ Ga		X				
				Production		X	/ Undergrour	nd storage	/ Deep	/ Shallow X
5)	LOCATIO			943.			Watershed:	Camp Mistak	e Run	
				Cente	ervi	lle	County:	Tyler	Ouadrangle: W	lest Union 7.5'
6)	WELL OP		-					7) DESIGNATE	DAGENT E. L.	Stuart
	Address			l <b>vd.</b> of			ies 2 a0	A 4.4-		Box 1550
				ourgh,		15216	25900		Clark	sburg, WV 26301
8)	OIL & GA							9) DRILLING C	ONTRACTOR:	
	Name			t Lowtl				Name	Unkno	wn
	Address			al Del:				Address		
			Middle	ebourne						
10)	PROPOSE	D WELL V	WORK:	Drill	<u>X</u>	_/ Dril	deeper	/ Redrill	/ Stimulate	<b>X</b> /
				Plug of	f old	formatio	n/ Peri	forate new formation	n/	
				Other pl	hysical	change i	n well (specify)_			
11)	GEOLOGI	CAL TAR	GET FOR	MATION,	<u>D</u>	evonia	an Shale			
	12) Estima	=	•			995	fe	et		
	13) Appro	ximate trata	a depths:	Fresh,		, 250	feet; s	alt,	feet.	
	14) Appro		-		555	, 1300		coal being mined in th	e area? Yes	/ NoX
15)	CASING A	ND TUBI	NG PRO	GRAM						
	SING OR BING TYPE		SPEC	IFICATIONS Weight	i		FOOTAG	E INTERVALS	CEMENT FILL-UP	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conc	ductor	11-3/4	H-40	42		Х	280'20	28020	CTS h	Kinkule 15.05
Fresh	water					ļ	*	710		1
Coal										Sizes
Inter	mediate	8-5/8			X		1569	1569	Circulate	
Prod	uction	4-1/2	J <b>-</b> 55	10.5	X			5900	350 SX	outs seas reque
Tubi	ng								Dy n	ule 150/
Line	rs									Perforations:
										Top Bottom
							OFFICE USE			
				•			DRILLING P	ERMIT		
Pern	nit number_	47-09	5-110	9						7 7 7 19
									Da	June 17 19 85
Γhis	permit cove	ring the we	ell operato	r and well	location	on showr	below is evidence	e of permission grant	ed to drill in accorde	non with the martin and large
, , , , ,	cincinto subic	כנ גט נוופ כנו	manions c	'Onizinea r	ierein s	מז מח חמו	e reverce herent	NATIFICATION manef has	vivon to the District A	
listr	ict oil and g	as inspector	r 24 hours	before ac	tual ne	mitted s	vork has commen	ork. In addition, the w	ell operator or his con	ntractor shall notify the proper
				ŧ						
ever	se hereof.	JIK IS AS UC	scribed in	the Notice	and A	кррисано	on, plat, and recla	mation plan, subject	to any modifications a	and conditions specified on the
Pern	nit expires _	June	17, 19	987			unless w	ell work is commenced	I prior to that date and	prosecuted with due diligence.
								on work is commenced	prior to that date and	prosecuted with due diligence.
Bo	ond:	Agent		Plat:	Casir		F			
1	87	1 12		1at.	Casir 1	- 1	Fee	400		1
L	0/	417		MY.	ארני	N 17	3337	PVI	$\sim$	
						•		/ / lara	acit.	Lane
								Adin	inistrator, Office of C	Oil and Gas
TOP	E: Keep or	ne copy of	this perm	it posted a	t the d	rilling lo	cation.	/ ]	,	•
			Car.	the revers	eide -	f the AP	DI ICANTIS CO	Y for instructions to	44	File
			300	THE LEVELSE	aine 0	. uit AP	i Licani 3 COI	a ive instructions to	the well operator.	