



IV-35 (Rev 8-81)



State of Mest Nirginia

Department of Mines Wil und Vas Bivision

Date_	Novem1	ber 20,	19	87			
Operator's							
Well 1	10. 2!	552					
Farm_	Dorothy	Wells	#1				
API No	a. 47 -	ი95	_	1204			

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

				· ·	llow_XX/)
	tershed		take Run		
District: Centerville Co	unty Tyler		Quadrangl	e West (Jnion 7.5
· ·					
CMPANY Union Drilling, Inc.					
ADDRESS P.O. Drawer 40, Buckhannon, W	V 26201	Casing	Used in	Left	Cement
DESIGNATED AGENT Joseph C. Pettey		Casing	Drilling		fill up
ADDRESS P.O. Drawer 40, Buckhannon, WV	26201	Size	DITTITIG	In well	Cu. ft.
SURFACE OWNER Danny and Patricia Harr	cis	20-16			·
ADDRESS Star Route, Box 55, West Union	n, WV 26456	Cond.			
MINERAL RIGHTS OWNER SEE ATTACHED		13-10"			
ADDRESS		9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK F	Robert	8 5/8		932.80	280
Lowther ADDRESS General Delivery	, Middle-	7			
PERMIT ISSUED 7-28-87 bourne,	WV 26149	5 1/2			
DRILLING COMMENCED 9-4-87		4 1/2		4786.25	320
DRILLING COMPLETED 9-8-87		3			
IF APPLICABLE: PLUGGING OF DRY HOLE	ON	2			
CONTINUOUS PROGRESSION FROM DRILLING REWORKING. VERBAL PERMISSION OBTAINS	OR .	Liners			
ON	ಚು	used		·	!
FOLOGICAL TARGET FORMATION Alexande	or		Dept	Lh 5700	·
Depth of completed well 4919		Rotary XXX	/ Cable) feet
Water strata depth: Fresh 248					
Coal seam depths: none		Ts mal	being mine	od in the	5 00
OPEN FLOW DATA		15 001	being mine	ed III file	area?
	D: 1	_			
Producing formation Benson, Gas: Initial open flow 1237	K11ey Mof /d	Pay	zone dept	h 4291	feet
Gas: Initial open flow 1237	Mof /d	oii: ini	tial open	tlow	Bb1/d
Final open flow 1	PLI/U	rin	al open il	row	Bb1/d
	Thear Hill	ar am II	nai tests	ho	urs
Time of open flow bet	sia (surface	mo a cure com			
Static rock pressure 1350 ps	sig(surface	measurem 1	ent) after	24 hou	rs snut in
Static rock pressure 1350 ps (If applicable due to multiple d	sig(surface completion-	-)			• .
Static rock pressure 1350 ps (If applicable due to multiple of Second producing formation	sig (surface completion-	-) Pay	zone dept	-h	feet
Static rock pressure 1350 ps (If applicable due to multiple of Second producing formation Gas: Initial open flow	sig(surface completion- Mcf/d	-) Pay Oil: Ini	zone dept	th	feet_
Static rock pressure 1350 ps (If applicable due to multiple of Second producing formation	sig(surface completion- Mcf/d Mcf/d	Pay Oil: Ini Oil: Fin	zone dept tial open al open fl	flow	feet Bbl/d Bbl/d

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

Dowell - 2 stage Foam Frac - 9-18-87

4684/88 - Benson - 231 bbls. water, 518,000 SCF Nitrogen, 80/100- 5000# sd, 40,000#

 $\frac{4254/91 - Riley - 235 \text{ bbls. water, } 461,000 \text{ SCF Nitrogen, } 80/100 \text{ sd-} 5000\# \text{ sand, } 20/40 \text{ sd-} 35,000\#$

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	REMARKS Including indication of all fresh
			and salt water, coal, oil and gas
Sand Red Rock Sand Red rock Sand & Shale Red rock Sand Sand & Shale Shale Red rock Red rock & Shale Big Lime Big Lime Big Injun Gantz Weir Sand & Shale Riley Shale Benson Sand & Shale	47 62 71 84 96 104 117 123 233 342 384 1209 1288 1579 1618 1699 1788 1982 2094 4253 4315 4684 4703	62 71 84 96 104 117 123 233 342 384 1209 1288 1579 1598 1698 1786 1980 2094 4253 4315 4684 4703 4919	Damp @ 1632' Gas Check 1775' - 12/10-2" water Gas Check 2258' - 12/10-2" water Gas Check 3477' - 10/10-2" water Gas Check 3885' - 6/10- 2" water Gas Check 4328' - 6/10 -2" water Gas Check 4919' - 8/10-2" water DEC 10 1987 DIVISION OF OIL & GAS DEPARTMENT OF EMERGY

(Attach separate sheets as necessary)

Union Drilling, Inc.

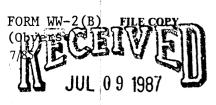
Well Operator

Douglas P. Terry Date: November 1987

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 only, encountered in the drilling of a well."





i)	Date: July	7 7		19_87
	Operator's Well No.	WVGK-2552	}	
3)	API Well No.	47	095	1204
•		State	County	Dermit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY									
	В (If "Gas",	Productio	n	Χ	_/ Underground	storage	/ Deep	\mathcal{L} Shallow X
5) LOCATIO		evation: _				. Watershed: _	Camp Mista	ke Run	
	Di	strict:(Center	ville	<u> </u>	County:	Tyler 093	Quadrangle:	West Union 7.56
6) WELL OP	ERATOR	Union	Drill:	ing	Inc CODI	50550	7) DESIGNATE	DAGENT Joseph	C. Pettey
Address	<u> </u>	Post (ffice	Drav	ver 40		Address	Post C	ffice Drawer 40
		Buckha	nnon .	WV	26201			Buckha	nnon, WV 26201
8) ÖIL & GA							9) DRILLING C		
Name	Robert	Lowtl	ner		 			on Drilling, I	Nc.
Address	G€	eneral	Delive	erv			Address	Post Office	Drawer 40
					26149			Buckhannon.	WV 26201
10) PROPOSE			Drill	X	_/ Drill			/ StimulateX	
t.							ate new formation		
4		1	Other p	hysical	change in	well (specify)			
11) GEOLOGI									
12) Estima						feet			
13) Appro							,		
14) Appro	ximate coa	ıl seam dep	ths:			Is co	al being mined in th	e area? Yes	/ No
15) CASING A	AND TUB	ING PRO	GRAM						
CASING OR	1	SPEC	IFICATION	s	- 1	FOOTAGE 1	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	11 3/4	H 40	42	Х		20	20	(0.000)	Kinds
Fresh water	1						40		Kinds
Coal				ļ ———	1				Sizes
Intermediate	8 5/8	EDM	23	X	 	928	928	to surface	Sizes
Production		J-55	10.5		 			to surface	
	 4 1/	1 J-33	1111-2	<u> </u>	╂ -	XXXXX 5600	5600	as required	Depths set
Tubing	 	ļ		 	╂	· · · · · · · · · · · · · · · · · · ·	-		
Liners	 	!			 	A			Perforations:
			 	ļ	╂		 		Top Bottom
	 			ļ	 	···			
	I I		.		11				<u> </u>
						OFFICE USE			
	:				I	RILLING PE	RMIT		
Permit number_	47	-095-1	204					Jul	y 28 ₁₉ 8
r crime number							-	Dat	
This permit cove	ring the w	ell operate	or and wal	l locati	on chown l	alow is avidance	of normicalon areas		ce with the pertinent legal
quirements subje	ct to the c	onditions	contained	herein	and on the	reverse hereof	of permission gram	iven to the District Oil	ce with the pertinent legal
o. 8) Prior to th	e construc	tion of roa	ds, locatio	ns and	pits for an	y permitted work.	In addition, the v	vell operator or his con	and Gas Inspector, (Refer the tractor shall notify the project
district oil and g	as inspecto	or 24 hour	s before a	ctual pe	ermitted wo	ork has commence	d.)		
The permitted w	ork is as d	escribed in	the Notic	e and A	Application	, plat, and reclam	ation plan, subject	to any modifications as	nd conditions specified on
reverse hereof.		-1		_	•				
Permit expires _		July 2	8 <u>, 198</u>	9		unless well	work is commence	d prior to that date and	prosecuted with due diligen
									,
Bond:	Agent	k o	lat:	Mai	ng F	ee WPCP	CCF	Other	7
120.7.	I J	/ (\t	[LMJ.	"6 2/g	f ""."/	S&E	Other	/
$\perp V$	<i>V</i>		<u> </u>	\mathcal{A}	an	~ 11			
					Do			717/1//	
		Ą		V			6	KATT Vh	1
NOTE: Keep o	ne copy of	this perm	it posted a	at the d	rilling loca	tion. D:	irector, Div	vision of bil	and Gas
						2.	, , , , , , , , , ,		and Gas Fil

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.