

## State of West Virginia Division of Environmental Protection Section of Oil and Gas

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## Well Operator's Report of Well Work

	•		Well Operator o	moport or mo					
Farm Name:	Ford, Patricia A.	Etal			Operator Wel	l No.:	508278		
LOCATION:	Elevation: 16	520 <b>'</b>		Quadrangle:	Dorothy				
	District: C	abin Creel	k	County:	Kanawha				
	Lätitude: Longitude:	5270 4780	Feet South of Feet West of	38 37	Deg. Deg.	Minutes 0 59	Seconds 0 7.6		
Company:	Equitable Produ P.O. Box 2347, 1 Charleston, WV	1710 Penn	npany sylvania Avenue		Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	
Agent:	Stephen G. Perc	lue			13 3/8"	32'	32'	grouted	
inspector: Permit Issued:	Carlos Hively 04/22/02 Well work co	ommence	d: 04/30/02		9 5/8"	831'	831'	333.6 ft <sup>s</sup>	·
Verbal Plugging	Well work g Permission	•		_	7*	2082'	2082'	391.4 ft⁵	
Rotary Rig Total Depth Fresh water de	X 5360 fe	Cable R et		<b>-</b>	4 1/2"	5360'	5360'	520.8 ftº	
Salt water dept	hs (ft)	680'		_ _ _					
is coal being m Coal Depths (f		40'-144'; 3	30'-333'	<del></del>	<u> </u>	<u> </u>		<u> </u>	•
OPEN FLOW D	ucing formation L		nian; Upper Devoni		erea; Lower W	eir	Pay Zone	Depth (ft):	See Attach for details
	Gas: Initial open Fin	flow al open flo en flow bet	Big Lime; Lower M 84 w: 2200 ween initial and fina 700	MCF/d MCF/d I tests	Oil: Initial o Fir e pressure) aff	nal open flow:	Hours	Bbl/d Hours	
	Second produci	ng formation		MCF/d MCF/d	Oil: Initial o			Depth (ft): Bbl/d	RECEIVED Office of Oil & Gas Permitting
	Time of ope Static rock press		ween initial and fina		ce pressure) af	 ter	Hours	Hours	AUG 0 9 2002
FRACTURING	OR STIMULATIN	G, PHYSIC	HE FOLLOWING: CAL CHANGE, ETC LL FORMATIONS,	C. 2) THE WE	LL LOG WHICI	H IS A SYST	EMATIC	ORE.	WV Department of nvironmental Protection
				Főr	Equitable Po	duction Comp	oany 7	rug	<u>*                                    </u>

AUG 2 3 2002

## **EQUITABLE PRODUCTION COMPANY** WR-35 COMPLETION REPORT - Attachment Well Treatment Summary

API# 47-039-05489

Well: <u>WV-508278-KVB</u>

NOTES:

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Date	05/13/02	05/13/02	05/13/02	05/13/02	05/13/02	05/14/02
Type Frac	YS WINE STATE	CCSONS SE	<u> </u>	#85-80-75 Q ⊹ Foam	Acid w/≱*≘ N²	₩85-80-70 Q ́ Foam
Zone Treated	Lower Devonian	Upper Devonian Gordon Berea	Lower Weir	Upper Weir	Big Lime	Lower Maxton
# Perfs From - To:	60 . 4453' – 5329'	40   3244' – 4223'	31 3006' – 3036'	21 2902' – 2922'	26 2466' – 2788'	20 2361' – 2388'
BD Pressure @ psi	2730	2620	1150	0	1840	2770
ATP psi	2908	2215	1943	1578	2700	3415
Avg. Rate, B=B/M, S= SCF/M	59,000 S	56,400 S	32 B (foam)	28 B (foam)	20 B (foam)	32 B (foam)
Max. Treat Press psl	3030	2410	2030	1680	2920	3650
ISIP psi	2260	1780	380	0	1620	2250
Frac Gradient	.53	.54	.56	.43	1.1	1.2
10 min S-I Pressure	1840	1320	440		2380	2290
Material Volume Sand-sks			497	399		407
Water-bbl	38.4		297.5	142.8		148
SCF N₂	1,245,000	853,600	442,700	256,300	243,970	578,000
Acid-gai	750 gal 7 1/2%	750 gal 8.3%	500 gal 14.2%	500 gal 14.8%	3000 gal 14.8%	500 gal 14.6%
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TOP	BOTTOM	<b>FORMATION</b>	REMARKS	
		Coal	140'-140'; 330'-333' Water @ 40',	, 1680'
1140'	1650'	SALT SAND		
1792'	1830'	RAVENCLIFF		
1870'	1905'	AVIS	GT @ 2225' = NS	
		LOWER	GT @ 2412' = NS	TOWNED TO
2342'	2390'	MAXTON		RECEIVED Office of Oli & Gas
2416'	2475'	LITTLE LIME		Permitting
2507'	2808'	BIG LIME	GT @ 2503' = NS	1
2832'	2856'	BIG INJUN	GT @ 2719' = NS	AUG 0 9 2002
2900'	2948'	UPPER WEIR	GT @ 2876' = NS	A00 0 3 2002
2990'	3045'	LOWER WEIR	GT @ 3000' = 84 mcfd	WV Department of
3280'	3297'	SUNBURY		Environmental Protection
3297'	3344'	BEREA	GT @ 3405' = 59 mcfd	Eliviroration
3597'	3613'	GORDON		
4476'	5264'	LOWER HURON		
5264'		JAVA		
	5360'	TD		