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

Well Operator's Report of Well Work

Operator Well No.: 508297 Farm Name: Penn Virginia Operating LOCATION: Elevation: 1572 Quadrangle: Dorothy District: Clear Fork County: Raleigh Minutes Seconds Latitude: 13180 Feet South of 38 Deg. 0 22 30 Longitude: 10720 Feet West of 81 Deq. Company: **Equitable Production Company** P.O. Box 2347, 1710 Pennsylvania Avenue Charleston, WV 25328 Agent: Stephen G. Perdue

inspector: Carlos Hively Permit Issued: 9/30/2002 Well work commenced: 11/21/03 Well work completed: 01/13/03 Verbal Plugging Permission granted on: **Rotary Rig** X Cable Rig **Total Depth** 3410 Fresh water depths (ft) Salt water depths (ft) 1023', 1795' is coal being mined in area? Coal Depths (ft): none reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	32'	32'	grouted
9 5/8*	567'	567'	264.1 ft ^g
7*	1823'	1823'	357.05 ft ^o
4 1/2"	3372'	3372'	274.05 ft ³
2 3/8"		3279 [,]	

OPEN FLOW DATA					See Attach
Producing formation Gordon / Berea; W	eir; Big Lin	ne		Pay Zone Depth (ft)	: for details
Gas: Initial open flow	73	MCF/d	Oil: Initial open flow	BbVd	
Final open flow:	2220	MCF/d	Final open flow:		
Time of open flow between i	nitial and fir	nal tests		Hours	
Static rock pressure	577	psig (surfa	ce pressure) after	Hours	
Second producing formation				Pay Zone Depth (ft):
Gas: Initial open flow		MCF/d	Oil: Initial open flow	BbVd	[- m]
Final open flow:		MCF/d	Final open flow:		Office California
Time of open flow between i	nitial and fir	nal tests		Hours	# Set#ess (Ag)
Static rock pressure		psig (surfa	ice pressure) after	Hours	FEB 20 200
NOTE: ON BACK OF THIS FORM PUT THE FOI	LOWING:	1) DETAILS (OF PERFORATED INTERVAL	_S,	12215

FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC

DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Equitable Proelyction Company

By: Market Sh

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WV Departme

Environmental Process

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

Well: WV-508297-Carbon Fuel API# 47-081-01289

Date	12/12/02	12/12/02	12/12/02			
Type Frac Acid, N₂, Foam, Water	%Variable Q∷ Foam	ິ່Variable Ω ∦ Foam	Acid w/.N ² Displacement			
Zone Treated	Gordon Berea	Weir	Big Lime			
# Perfs From - To:	30 3048' – 3298'	31 2718' – 2748'	20 2328' – 2580'			
BD Pressure @ psi	1990	510	3380			
ATP psi	2155	2385	2970			
Avg. Rate, B=B/M, S= SCF/M	44 B (foam)	43 B (foam)	24 B (foam)			
Max. Treat Press psi	2440	2740	3420			
ISIP psi	50	470	1430			
Frac Gradient	.45	.6	1.02			
10 min S-I Pressure			2050			
Material Volume	717	614			treathre histo	
Water-bbl	267	192				
SCF N ₂	702,609	548,848	140,900			
Acid-gal	1250 gal 15%	500 gal 15%	3000 gal 15%			<u> </u>
NOTES:			<u> </u>	ļ	<u>l</u>	<u> </u>

TOP	воттом	FORMATION	REMARKS
		Coal	None reported Water @ 1023' & 1795'
		LOWER	GT @ 2095' = NS
2086'	2160'	MAXTON	
2170'	2267'	LITTLE LIME	
2272'	2582'	BIG LIME	GT @ 2319' = NS
2607'	2648'	BIG INJUN	GT @ 2599' = 42 mcfd
2712'	2764'	UPPER WEIR	
	2834'	LOWER WEIR	GT @ 2820' = 42 mcfd
3060'	3078'	SUNBURY	
3078'	3115'	BEREA	
3283'	3303'	GORDON	·
	3410'	TD	GT @ DC = 42 mcfd

