

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

## Well Operator's Report of Well Work

Farm Name:

Penn Virginia Operating

Operator Well No.:

508282R

LOCATION:

Elevation: 2443

Quadrangle: Dorothy

District: Cabin Creek

County: Kanawha

Seconds Minutes

Latitude: Longitude: 9090 0

Feet South of Feet West of

38 Deg. Deg.

0 25 0 0

Company:

**Equitable Production Company** 

P.O. Box 2347, 1710 Pennsylvania Avenue

Charleston, WV 25328

Agent:

Stephen G. Perdue

Inspector:

Carlos Hively

Permit Issued:

4/19/2002

Well work commenced: 03/11/02

Well work completed: 05/11/02

Verbal Plugging

Permission granted on:

Rotary Rig Total Depth

Cable Rig X 4360

Fresh water depths (ft)

226'

Salt water depths (ft)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft	
16"	137'	137'	grouted	
9 5/8"	1471.75	1471.75	742,26 ft <sup>a</sup>	
7*	2688'	2688'	548,8 ft <sup>6</sup>	
4 1/2"	4345'	4345'	236.25 ft <sup>a</sup>	
2 3/8"		4219'		

Is coal being mined in area?

Coal Depths (ft):

Open Mine

430'-440'; 860'-864'; 885'-890'; 988'-992'; 1016'-1020'

**OPEN FLOW DATA** 

Pay Zone Depth (ft):

Hours

See Attach for details

Gas: Initial open flow

Producing formation Gordon / Berea; Lower Weir; Upper Weir; Big Lime MCF/d 158

MCF/d

MCF/d

psig (surface pressure) after

Oil: Initial open flow

BbVd Final open flow

Time of open flow between initial and final tests

Final open flow:

Hours

Static rock pressure

Gas: Initial open flow

Static rock pressure

600

psig (surface pressure) after

Second producing formation

1748

Pay Zone Depth Oil: Initial open flow BbVd

Final open flow: MCF/d Time of open flow between initial and final tests

Final open flow

Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC

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

AUG 0 9 2002 WV Department of

**Environmental Protection** 

Office of Oil & Gas

Permitting

AUG 2 3 2002

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

Well: WV-508282R-Carbon Fuel API# 47-039-05487

Date	05/06/02	05/06/02	05/06/02	05/06/02		
	-	<u> </u>				
Type Frac	N2	85(0)	85-80-75 Q	Acid W/N		And the second second
Acid, N <sub>2</sub> , Foam , Water	,	Foam	Foam	Displacement		
Zone Treated	Gordon	Lower Weir	Upper Weir	Big Lime		
	Berea				<u> </u>	
# Perfs	30	41	29	50		1
From - To:	3992' 4275'	3718' – 3738'	3640' – 3654'	3288' – 3552'		<u></u>
BD Pressure @ psi	2770	760	900	1200		
ATP psi	2998	1792	1877	1864		
Avg. Rate, B=B/M, S= SCF/M	61,400 S	32 B (foam)	32 B (foam)	24 B (foam)		
Max. Treat Press psi	3520	1830	2000	2200		
ISIP psi	2760	Ō	0	690		
Frac Gradient	.76	.43	.43	.66		 
10 min S-I Pressure	1190			1250		
Material Volume	e As Silving Sent Yesh	distribution of	Street Land	A CONTRACTOR		in secondaria
Sand-sks		586	505			<u> </u>
Water-bbl		286.8	259.2	184.2		
SCF N <sub>2</sub>	660,700	650,400	405,300	354,000		
Acid-gal	400 gal 15%	500 gal 15.6%	500 gal	7000 gal		
	<u> </u>		15.6%	15.6%	<u></u>	<u> </u>
NOTES:						

TOP BOTTOM FORMATION REM	MARKS
Coal Open mine 430'-440'; 885'-890'; 988'-992'; 1	
LOWER GT @ 2782' & 3126' =	= NS
3050' 3216' MAXTON	
3139' 3222' LITTLE LIME	•
3234' 3553' BIG LIME GT @ 3314' = odor	RECEIVED
3570' 3592' BIG INJUN GT @ 3502' = odor	I Office of Oil & Gas I
3636' 3678' UPPER WEIR GT @ 3628' = 59 mcf	f man last f
3698' 3790' LOWER WEIR GT @ 3817' = 103 mg	cfd
4022' 4050' SUNBURY	AUG 0 9 2002
4050' 4091' BEREA GT @ 4129' = 157 mg	
4261' 4279' GORDON GT @ 4224' = 157 mg	I transpersion i
4360' TD	Environmental Protection