

API # 47- 081-01262

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

Cement

Fill Up

Cu. Ft.

grouted

375.3 ft³

379.95 ft³

533.2 ft³

Well Operator's Report of Well Work

Farm	Name:

Ford, Patricia A., etal

Operator Well No.:

508286

LOCATION:

Elevation: 1475'

Quadrangle: Dorothy

District: Clear Fork

County: Raleigh

Deg.

Latitude:

14600 Feet South of Feet West of

38 Deg. Minutes Seconds

0

27

Used

Drilling

32

828'

1743

5178.85

Longitude:

3500

Casing

& Tubing

Size

13 3/8"

9 5/8"

7*

4 1/2"

2 3/8*

0 30

Left

in

Well

32'

828'

1743

5178.85

5085

Company:

Equitable Production Company

1710 Pennsylvania Avenue

Charleston, WV 25328

Agent:

Steve Perdue

Inspector: Permit Issued: Ofie Helmick

3/26/2002 Well work commenced:

05/12/03

Well work completed: 06/16/03

Verbal Plugging

Permission granted on:

1350'

Rotary Rig

Cable Rig X

Total Depth

5180 feet

Fresh water depths (ft)

40'

Salt water	depths (ft)

Is coal being mined in area? Coal Depths (ft):

96'-99'; 107'-110'; 133'-137'; 236'-240'; 440'-443'

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS,

OPEN FLOW DATA					See Attach
Producing formation Lower Shale; Upp	er Shale; G	ordon; Upper W	eir	Pay Zone Depth	(ft): for details
Gas: Initial open flow	0	MCF/d	Oil: Initial open flow	Bbl/d	
Final open flow:	724	MCF/d	Final open flow:		
Time of open flow between	initial and fi	nal tests		Hours	
Static rock pressure	465	psig (surfa	ace pressure) after	Hours	3
Second producing formation				Pay Zone Depth	(ft):
Gas: Initial open flow	<u>"-</u>	MCF/d	Oil: Initial open flow	Bbl/d	
Final open flow:		MCF/d	Final open flow:		RECEIVED Critical of Oil & Goo
Time of open flow between	initial and fi	nal tests		Hours	Oilice of Chief
Static rock pressure		psig (surfa	ace pressure) after	Mours	Since of Chief
					OCT 2 1 2003

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

WW Department of
DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBO Environmental Protection

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

Marie San Control

Well: _WV-508286-KVB _______API# 47-081-01262

Date	06/06/03	06/06/03	06/06/03	06/06/03		r -
		00/00/00	00/00/03	00/00/03		
Type Frac	N ²	N ²	85-80-75 Q	85-80-75 Q		
Acid, N₂, Foam , Water			Foam	Foam	11513 C. C. C. C. C. C.	
Zone Treated	Lower Shale	Upper Shale	Gordon	Upper Weir		
# Perfs	30	40	21	21		
From - To:	4596' - 5152'	3568' - 4484'	3414' - 3424'	2759' – 2769'	l	
BD Pressure @ psi	3200	2850	150	695		
ATP psi	2262	2500	1845	1905		
Avg. Rate, B=B/M, S= SCF/M	51,500 S	50,266 S	28 B (foam)	32 B (foam)		
Max. Treat Press psi	3200	2850	1920	2120		
ISIP psi	2440	1635	0	105		
Frac Gradient	.59	.47	.43	.47		,
10 min S-I Pressure	1740 (5 min)	1585 (5 min)		1060		
Material Volume Sand-sks			306	402		and the second s
Water-bbl	65		233	138		
SCF N₂	783,844	781,841	274,480	351,682		
Acid-gal	750 gal 7 1/2%	672 gal 7 1/2%	500 gal 15.2%	500 gal 14.8%		
NOTES:				•		

ТОР	воттом	FORMATION Coal	REMARKS 96'-99'; 107'-110'; 133'-137'; 236'-240'; 440'- 443' Water @ 40' & 1350'
2268'	2294'	Lower Maxton	GT @ 2033', 2189' = NS
2321'	2377'	Little Lime	
2398'	2700'	Big Lime	GT @ 2408', 2628' = NS
2744'	2777'	Upper Weir	GT @ 2753' = NS .
2948'	2960'	Lower Weir	GT @ 2909' = odor
3183'	3198'	Sunbury	GT @ 3251' = odor
3198'	3244'	Berea	GT @ 3409' = NS
3412'	3428'	Gordon	GT @ 3725' = NS
4307'	5052'	Lower Huron	GT @ 4041', 4291' = NS
5052'		Java	GT @ 5180' = NS
	5180'	TD	GT @ DC = odor