

State of West Virginia Division of Environmental Protection

Section of Oil and Gas

Proviound Aup

Well Operator's Report of Well Work

Operator Well No.:

508249

Farm Name: LOCATION:

WVDNR

Elevation: 888

District: Loudon

Quadrangle: Charleston West

County: Kanawha

Minutes Latitude: - 12,100 Feet South of Deg. 17 30 Longitude: 3720 Feet West of 81 Deg. 40 0

Company:

Equitable Production Company

P.O. Box 2347, 1710 Pennsylvania Avenue

Charleston, WV 25328

Agent:

Stephen G. Perdue

Inspector:

Carlos Hively

Permit Issued: 6/24/2002

Well work commenced: Well work completed:

07/26/02

Verbal Plugging

Permission granted on:

Rotary Rig

X Cable Rig

Total Depth Fresh water depths (ft)

42

Salt water depths (ft)

Is coal being mined in area?

	***		_	

OPEN FLOW DATA

Coal Depths (ft):

Producing formation Big Injun; Big Lime

472'; 860'

382' - 401'

Gas: Initial open flow

Final open flow:

Time of open flow between initial and final tests

Static rock pressure

Second producing formation

Gas: Initial open flow

Final open flow:

Time of open flow between initial and final tests

Static rock pressure

MCF/d

MCF/d

59

223

216

psig (surface pressure) after

MCF/d Oil: Initial open flow

MCF/d Final open flow:

psig (surface pressure) after

Hours

Oil: Initial open flow

Final open flow

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 ENCOUNTERED BY THE WELLBORE.

Hours

Seconds

Casing

Used Left Cement & Tubing in in Fill Up Size **Drilling** Well Cu. FL 13 3/8 60 - 60 64.9 fts 9 5/8" 318 318 145.95 fts 7" 1346 1346 276,9 ft^o 4 1/2" 16831 1683 132.3 ft^a

> See Attach for details

Pay Zone Depth (ft):

Pay Zone Depth (ft):

Bbl/d

Hours

Bbl/d

Hours

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WV Department of Environmental Protection

DET 2 5 2002

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

API#47-039-05500

Well: <u>WV-508249-Hardy</u>						
Date	07/19/02	07/19/02				
/pe Frac	Variable Q	···Acid W/ Nº	The second section of the second		To have been been been a long to the same of the same	
/De rac	Foam	Displacement				
cid, N ₂ , Foam, Water Zone Treated	Big Injun	Big Lime				
# Perfs From - To:	20 1536' – 1555'	20 1418' – 1518'				
BD Pressure @ psi	2240	3740				ļ
ATP psi	1995	2450				ļ
Avg. Rate, B=B/M, S= SCF/M	. 12 B (foam)	10 B				1
Max. Treat Press psi	2160	2760 1610			ļ	
ISIP psi	1350	1.53			 	
Frac Gradient	1.3	1790				
10 min S-I Pressure				A STATE OF THE STA	halos Carlo and and a section with the leader	
Material Volume Sand-sks						
Water-bbl	158			-		
SCF N ₂	307,123	209,363				
Acid-gal	T 050 1469/	3000 gal 15%				

REMARKS BOTTOM FORMATION 382' - 401' Water @ 42', 472'; 866' & 990' GT @ 895' = 84 mcfd @ 1350' = odor GT @ 1400' & 1600' = NS GT @ 1512' = NS GT @ TD 1700' = 59 mcfd TOP Coal **BIG LIME:** 1520'

BIG INJUN: 1580' 1536'

UPPER WEIR:

TD 1700'

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