# (((ECHOMETER)))

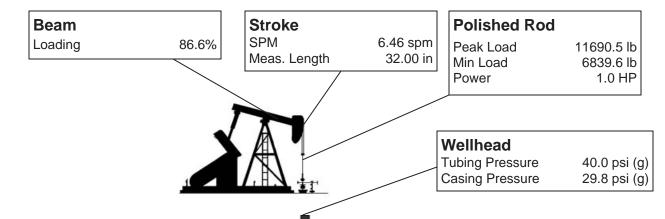
### DHDg W\_PRT (WPRT 288) 06/16/2015 10:15:16AM

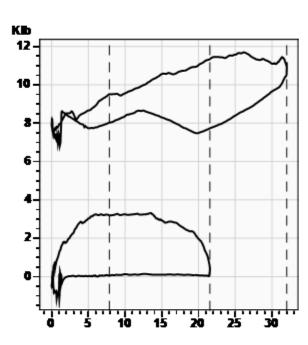


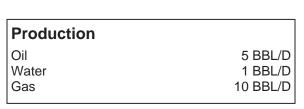
Moss State 28#1

### C-114D-135-48 10HP/?A Electric 24 hr/day

Stroke 31 of 35







System Efficiencies	
Polished Rod/Motor Eff.	*.*
Pump/Motor Eff.	* *
Volumetric Eff.	36.5%

# LL = 3694 ft O O O O O

Diameter (in) / Length (ft)	Grade	Modified Goodman (85%)	Stress (lb)	Sensitivity (85%, H)
0.75 875	К	89.2%	26461.9	62.3%
0.75 4450	К	78.8%	23600.9	55.5%
1.5 100	С	13.0%	2203.4	5.2%

**Rod Loading** 

Fullip (AFI. 20-125 KIBC	12-4)
Max Stroke Length	21.54 in
Gas Free Plunger Stroke	7.86 in
Gas Free Fillage	36.5%
Gas Free Slippage	9 BBL/D
Gas Free Displacement	-0 BBL/D

Calculated Fluid Load Max 2608.2 lb
Pump Fluid Load, Fo(Up-Dn) 3058 lb
Damp Up 0.10453 Damp Dn 0.10453
Kr 210 lb/in
Kt 25533 lb/in

Pump Intake Pressure 29.8 psi (g) Pump HP 0.9 HP

### **Comments and Recommendations**

Upper rounded courners of pump card indicate highly worn pump. A 1.5" tag on the pump. Only a net 8" EFFECTIVE stroke: 0 BPD production w/slippage.

Downhole Diagnostic Shawn Dawsey shawn@DownholeDiagnostic.com www.DownholeDiagnostic.com

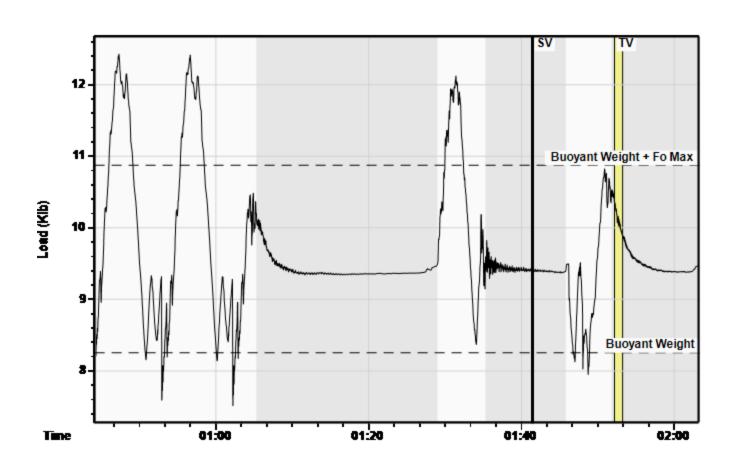


### DHDg W\_PRT (WPRT 288) 06/16/2015 10:22:03AM



Moss State 28#1

### Valve Analysis 1 of 1



### **Traveling Valve Analysis**

Calc. Buoyant Rod Wgt. + Fo Max 10.87 Klb Measured Load 10.36 Klb Leakage 11.29 BBL/D Leakage Interval 1.07 sec

### **Standing Valve Analysis**

Calc. Buoyant Rod Wgt. 8.25 Klb Measured Load 9.43 Klb

Calculated Fluid Load 0.94 Klb

### **Comments and Recommendations**

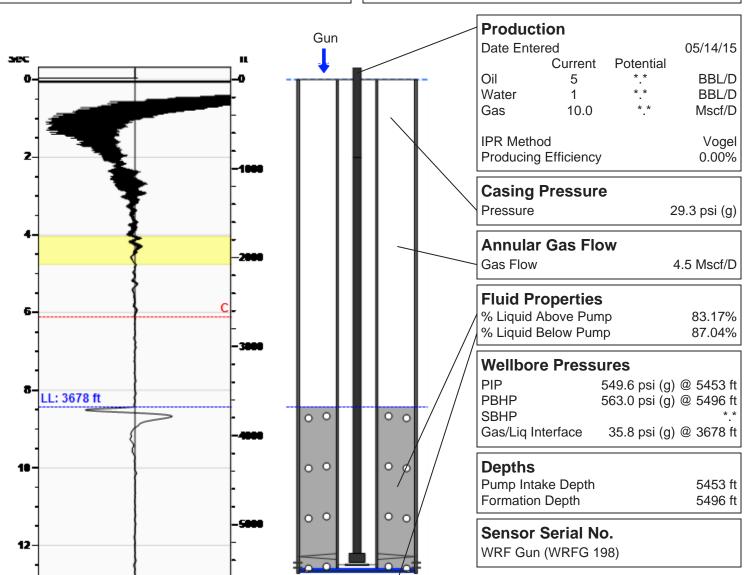
TV, SV, TV Tests: pump leakage 11+ BFPD.

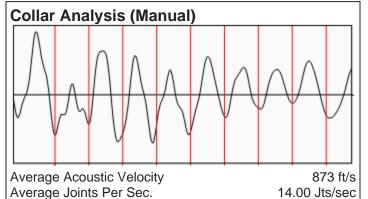
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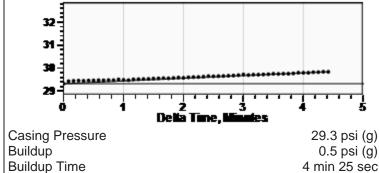


## Liquid Level 3678 ft

Fluid Above Pump	1775 ft
Equivalent Gas Free Above Pump	1476 ft







**Casing Pressure Buildup** 

Gas Gravity

118.01 Jts

### **Comments and Recommendations**

Joints To Liquid

Well is off (SI 3 days, on 24hrs before that, and SI the 2 days prior to that). 400# shot.

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1.0896 Air = 1