

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-25-82	
Company Caulkins Oil Company				Connection	
Pool Blanco Mesa Verde				Formation Mesa Verde	
Completion Date 9-16-82		Total Depth 7550		Plug Back TD 7550	
				Elevation 6602 GR	
Csg. Size 5 1/2		Wt. 17# 15.5#		Perforations: From 4816 To 5450	
Tbg. Size 2 1/16		Wt. 3.25#		Perforations: From 5405 To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas- Gas Multiple				Packer Set At 5470	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a	
L		H		G _g	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				Prover	
				Meter Run	
				Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1085		1237		9 Days
1.							97		388		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		109	1.000	1.000	1.000	1543
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_w^2 - P_c^2} = 1.1143$	(2) $\left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 1.08454$
1		400	160,000	1,400,001		
2						
3						
4						
5						

Absolute Open Flow <u>1,673</u> Mcfd @ 15.025				Angle of Slope @ <u>75</u>		Slope, n _____	
Remarks: _____							
Approved By Division		Conducted By		Calculated By		Checked By	