

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-25-81	
Company Caulkins Oil Company				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde			
Completion Date 10-18-81		Total Depth 7500'		Plug Back TD 7500'		Elevation 6508' Gr.	
Csg. Size 5 1/2"		Wt. 17#		d 4.950		Set At 7500	
Perforations: From 4748 To 5452		Well No. 4M		Farm or Lease Name Breech F			
Tbg. Size 1 1/4"		Wt. 2.30#		d 1.380		Set At 5936	
Perforations: From 5936 To		Unit Sec. Twp. Rge. P 33 27N 6W		County Rio Arriba			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5709		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	Gg	% 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							621		1053		7 Day
1.							69		577		3 hr.
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 Fg	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		81	1.000	1.000	1.000	1,147
2.							
3.							
4.							
5.							

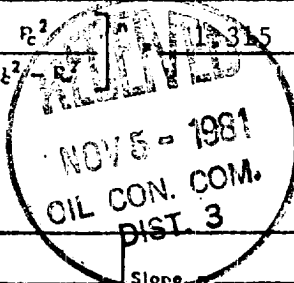
NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature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

P _c 1065 P _c ² 1,134,225				
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		589	346,921	787,304
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.441$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,508$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.315$



Absolute Open Flow _____ 1508 _____ Mcfd @ 15.025	Angle of Slope @ _____ 75 _____ Slope
Remarks: _____	
Approved By Division _____	Conducted By: _____
Calculated By: _____	Checked By: _____