

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-31-80	
Company Caulkins Oil Company				Connection		
Pool Otero Chacra Blanco Mesa Verde				Formation Commingled Chacra & Mesa Verde		Unit
Completion Date 10-24-80		Total Depth 7550		Plug Back TD 7550		Elevation 6668
Form or Lease Name Breach E		Well No. 583M				
Coq. Size 4 1/2" & 7"	Wt. 11.6#	d 4.000	Set At 6729-	Perforations: From 3957 To 5469		
Tiq. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5280	Perforations: From 5280 To		
Type Well - Single - Blindhead - G.C. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5512		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F A		Mean Annual Temp. °F		State New Mexico
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							1127		1127		7 Days S
1.	3/4" Choke						75		577		3 Hours
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, Fpv	Rate of Flow Q, Mcfd
1	14.1605		87	1.000	1.000	1.000	1.232
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ H

NO.	P _i ²	P _w ²	P _e ²	P _c ² - P _w ²	1.365	(2) $\left[\frac{P_e^2}{P_i^2 - P_w^2} \right]^n = 1.2629$
1		589	346,921	950,400		
2.						
3.						
4.						
5.						

Absolute Open Flow 1.556 Mcfd @ 15.025			Angle of Slope @ 75	Slope, n
Remarks:				