

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-121
Revised 9-1-66

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-17-74	
Company Caulkins Oil Company				Connection	
Pool Otero-Chacra				Formation Chacra	
Completion Date 10-10-74		Total Depth 4000'		Plug Back TD 4000'	
Elevation 6698 DF		Farm or Lease Name Breech D			
Csg. Size 4 1/2"	Wt. 12.6#	d 3.833	Set At 4000'	Perforations: From 3858 To 3878	
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 3820	Perforations: From None To 	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At 3820	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 	
Baro. Press. - P _a 		County Rio Arriba			
State New Mexico					
L	H	Gg	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	
Pipe					

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	7 Days						815		PKR		
1.	3/4"						48		PKR		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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	14.1605		60	1.000	1.000	1.000	850
2.							
3.							
4.							
5.							

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

NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.13$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0959$
1	3,600	277	76,746	607,183		
2						
3						
4						
5						

Absolute Open Flow 931 Mscf @ 15.925				Angle of Slope θ _____		Slope, n 75	
Remarks: _____							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	