

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type of Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-5-99						
Company CAULKINS OIL COMPANY					Connection						
Pool Otero Chacra					Formation Chacra						
Completion Date 12-18-98			Total Depth 6836'		Plug Back TD 6836'		Elevation 6124'				
Csg. Size 7"			Wt. 23# & 26#		d		Set At 6836'		Perforations From 2827'		
Tbg. Size 2 1/16"			Wt. 3.25		d 1.750		Set At 3190'		Perforations From		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G. G. Multiple					Packer Set at 3307'			County Rio Arriba			
Producing Thru Tubing			Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a			State New Mexico	
L		H		Gg		% CO ₂		% N ₂		% H ₂ S	
										Prover	
										Meter Run	
										Tape	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
No.	Prover Line Size	Orifice X 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		3/4"								
1.						658		671		7 day SI
2.						89		323		3 hrs.
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcid
1.	14.1605		101	1.000	1.000	1.000	1430
2.							
3.							
4.							
5.							

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

No.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1.	10201	335	112225	354,264
2.				
3.				
4.				
5.				

P_c 683 P_c² 466,489

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.317$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2635$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,807$

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Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope _____ 85		Slope, n _____	
Remarks: _____					
Absolute By Division		Conducted By:		Calculated By:	
				Checked By:	