

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-1-82	
Company Caulkins Oil Company				Connection	
Pool Otero Chacra				Formation Chacra	
Completion Date 9-24-82		Total Depth 7520'		Elevation 6669 Gr.	
Csg. Size 5 1/2"		Set At 4.950		Perforations From 3953' To 3860'	
Tub. Size 1 1/4"		Set At 4.892		Well No. 233-E	
Tub. Size 1 1/4"		Set At 2.3#		Unit Sec. Twp. Rge. K 16 26-N 6-W	
Type Well - Single - Brindenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5405	
Producing Thru Tubing		Reservoir Temp. °F #		Baro. Press. - P _a New Mexico	
L		H		Prover	
G _g		% CO ₂		% H ₂ S	
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.	
SI							1073		1078	
1.							107		631	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _l	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		119	1.000	1.000	1.000	1.685
2.							
3.							
4.							
5.							

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

NO.	P _c	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	1090				
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.533$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,322$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.379$

Absolute Open Flow	2,322	Mcfd @ 15.025	Angle of Slope @	75	Slope, n
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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