

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/18/71	
Company Southern Union Production Co.				Connection Southern Union Gas Company		
Pool Tapacito				Formation Pictured Cliffs		RECEIVED OCT 20 1971 OIL CON. COM. DIST. 3
Completion Date 9/30/71		Total Depth 8000		Plug Back TD 7956		
Casing Size 7.825 4.500		Wt. 26.40 10.50		d 6.969 4.052		Set At 3797 3670-7992
Perforations: From 3558		To 3622		Well No. 13		
Perforations: From 3572		To 3580		Unit Sec. Twp. Rge. E 13 26N 4W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7701		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12
State New Mexico						
L 3560	H	G _g 0.620	% 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	2"		3/4"				937		936		15 Days
1.							174	52°	603		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		186	1.0078	0.9837	1.016	2,317
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ 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

F _c 949	P _c ² 900,601	
NO.	P _t ²	P _w ²
1	615	378,225
2.		
3.		
4.		
5.		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3811$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0904$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4,843$

Absolute Open Flow	4,843	Mcfd @ 15.025	Angle of Slope @ _____	Slope, n 0.85
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Remarks: _____

Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By: Kenneth E. Roddy
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Figure 1 is a schematic representation of the experimental design. It shows three groups: Control, Experimental, and Experimental + Feedback. The Control group receives a stimulus (S) and a response (R) without feedback. The Experimental group receives a stimulus (S) and a response (R) with feedback. The Experimental + Feedback group receives a stimulus (S) and a response (R) with feedback, and then receives a feedback signal (F) after a delay (D).

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