

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 12-26-72	
Company SOUTHERN UNION PRODUCTION CO.				Connection SOUTHERN UNION GAS COMPANY	
Pool TAPACITO				Formation PICTURED CLIFFS	
Completion Date 11-30-72		Total Depth 6065		Plug Back TD 6045	
				Elevation 7155 R.K.B.	
Csg. Size 7.000"		Wt. 23.00		Perforations: To 3840	
Tbg. Size 4.500		Wt. 10.50		Perforations: To 3844	
Csg. Size 1.900		Wt. 2.75		Perforations: To 3844	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL - GAS - GAS				Packer Set At 5850	
Producing Thru TUBING				Baro. Press. - P_a 12	
Reservoir Temp. °F @ 0.620				Mean Annual Temp. °F	
L 3834				H 0.620	
Gg 0.620				% CO ₂	
% N ₂				% H ₂ S	
Prover				Meter Run	
Taps				County RIO ARRIBA	
State NEW MEXICO					

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
1	2"		3/4"				958		958		14 Days
2							189	51°	674		3 Hours
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, Mcfd
1	12.3650		2.01	1.0088	0.9837	1.017	2508
2							
3							
4							
5							

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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	970	940,900	686	470,596	470,304
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0006$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4522$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8030$

Absolute Open Flow 4522 Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:			
Approved By Commission:	Conducted By: KENNETH E. RODDY	Calculated By: KENNETH E. RODDY	Checked By: