

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 9-17-78	
Company Benson Mineral Group				Connection None			
Pool Rusty Chacra Extension				Formation Chacra		Unit	
Completion Date 9-17-78		Total Depth 1820'		Plug Back TD		Elevation 6784 GR	
Csg. Size 4 1/2"		Wt. 9.5#		Set At 1815'		Perforations: From 1526 To 1730	
Tbg. Size 2 3/8"		Wt. 4.7		Set At 1729'		Perforations: Open - ended From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a New Mexico	
L 1729		H 60		G _g .60		% 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	10 days						180	60	390	60	
1.	3/4" choke						32		75		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		44	1.0	1.0	1.0	544
2.							
3.							
4.							
5.							

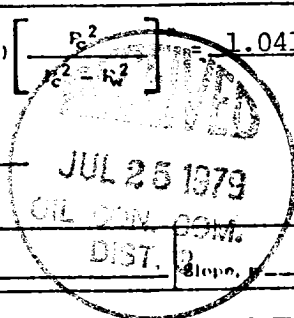
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.				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

$P_c = 402$ $P_c^2 = 161604$				
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²
1		87	7569	154035
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{161604}{154035}$$

$$AOI^n = Q \cdot \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 566$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.041$$



Absolute Open Flow	566	Mcf/d @ 15,025	Angle of Slope	85
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Approved by Commission	Conducted by Kurt Nelson	Calculated by Sue Johnson	Checked by Paul C. Ellison
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