

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 1-27-79	
Company Benson Mineral Group, Inc.				Connection None	
Pool Rusty Chacra Extension				Formation Chacra	
Completion Date 6-30-78		Total Depth 2000'		Plug Back TD 1885'	
				Elevation 6839' GR	
Casing Size 4 1/2"		WT. 9.5#		ID 4.090	
		Set At 1980		Perforations: From 1650 To 1699	
Tubing Size 2 3/8		WT. 2.375		ID 1.995	
		Set At 1853		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	
County Sandoval		State New Mexico			
L 1853		H		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	6 months						485	60	495	60	3 hrs
1.							39		110		
2.											
3.											
4.											

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		51	1.0	1.0	1.0	631
2.							
3.							
4.							
5.							

NO.	P _f	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 _____ 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 507	P _c ² 257049	
NO.	P ₁ ²	P _w ²
1		122
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{257049}{242165}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 664$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.052$

Absolute Open Flow 664	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: _____

Approved by Commission:	Conducted by: Kurt Nelson	Calculated by: Sue Johnson	Checked by: Paul Ellison
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