

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		Unit	
Completion Date 6-30-78		Total Depth 2093'		Plug Back TD		Elevation 6922' GR	
Casing Size 4 1/2"		Wt. 9.5#		Set At 2092'		Perforations: From 1758' To 1854'	
Tubg. Size 2 3/8"		Wt. 2.375#		Set At 1999'		Perforations: From Open-Ended To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Sandoval	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 60		Baro. Press. - P _a	
L 1999		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	7 months						485	60	490	60	
1.							110		270		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		122	1.0	1.0	1.0	1509
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 _____ 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

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1		282	79524	172480
2				
3				
4				
5				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = \frac{252004}{172480}$

ACF = Q · $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2083$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.38$

Absolute Open Flow	2083	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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