

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 4-20-79					
Company Benson Mineral Group, Inc.				Connection None	
Pool Wildcat				Formation Chacra	
Completion Date 9-19-78		Total Depth 2150'		Elevation 6928' Gr.	
Crg. Size 4 1/2"		Wt. 9.5#		Set At 2004'	
Perforations: From 1727' To 1800'		Well No. #1			
Tub. Size 2 3/8"		Wt. 2.375		Set At 1798'	
Perforations: OPEN-ENDED		Unit Sec. Twp. Rge. 29 22N 6W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing				County Sandoval	
Reservoir Temp. °F 60		Mean Annual Temp. °F 60		State New Mexico	
L 1798'	H	Gg .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 months						455	60	475	60	
1.	3/4" choke						72		183		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		84	1.0	1.0	1.0	1039
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 487	P _c ² 237169	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{237169}{199144}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.160$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	195	38025	199144
2			
3			
4			
5			

Absolute Open Flow **1205** Mcfd @ 15.025 Angle of Slope **85**
 Remarks: _____
 Approved by Commission: _____ Conducted by: **Kurt Nelson** Calculated by: **Sue Johnson** Checked by: **Paul C. Ellison**