

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 4-23-79	
Company Benson Mineral Group, Inc.				Connection None			
Pool Wildcat				Formation Chacra		Unit	
Completion Date 8-14-78		Total Depth 2150'		Plug Back TD		Elevation 6957' GR	
Cng. Size 4 1/2"		Wt. 9.5#		Set At 4.090		Perforations: From 1834' To 2043'	
Tlg. Size 2 3/8"		Wt. 2.375		Set At 1.995		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 None	
L 2037'		H		Gg .60		% CO ₂ % N ₂ % H ₂ S Prover	
Meter Run		Taps		County Sandoval			
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
SI	8 months						480	60	495	60	
1.							42		122		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		54	1.0	1.0	1.0	668
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 _r 507 P _r ² 257049		(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{257049}{239093}$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \frac{1.063}{1}$	
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	
1		134	17956	239093	
2					
3					
4					
5					

AOI = Q · $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 710$

Absolute Open Flow 710 Mcfd @ 15.025

Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved by Commission:	Conducted by: Kurt Nelson	Calculated by: Sue Johnson	Checked by: <i>Paul C. Ellison</i> Paul C. Ellison
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