

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 9-13-79	
Company Benson Mineral Group				Connection None			
Pool Wildcat				Formation Chacra		Unit	
Completion Date 9-13-79		Total Depth 2220'		Plug Back TD 2129'		Elevation 6937	
Cng. Size 4 1/2"		Wt. 9.5#		Set At 2183'		Perforations: From 1903 To 1954	
Fbg. Size 2 3/8"		Wt. 4.7#		Set At 1989'		Perforations: opened ended From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru casing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a	
L 1989		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	1 month					60	0	60	410	60	30 days
1.	2" x 1/8"			22.1			0		22.1		24 hrs
2.							(pumping)				
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			22.1	1.0	1.0	1.0	20.5
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{178084}{176921.19}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \frac{1.006}{20.6}$
1	422	34.1	1162.81	176921.19		
2						
3						
4						
5						

Absolute Open Flow <u>20.6</u> Mcfd @ 15.025		Angle of Slope <u>21</u>		Slope, n <u>.85</u>	
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Remarks: Well was pump tested

Approved By Commission:	Conducted By: Kurt Nelson	Calculated By: Sue Johnson	Checked By: Paul C. Ellison
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