

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 4-25-79	
Company Benson Mineral Group, Inc.			Connection None		
Pool Wildcat			Formation Chacra		Unit
Completion Date 4-25-79		Total Depth 1800'		Elevation 6952' Gr.	
Casing Size 4 1/2"		Wt. 9.5#		Set At 1781'	
Perforations: From 1552' To 1600'		Well No. #1			
Tub. Size 2 3/8"		Wt. 2.375#		Set At 1631'	
Perforations: Open-Ended To		Unit Sec. Twp. Rge. 31 22N 6W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 60		Baro. Press. - P _a None	
County Sandoval		State New Mexico			
L 1631'	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	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	
1.	6 months					440	60	435	60	3 hrs
2.	3/4" choke					9.5		20		
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		21.5	1.0	1.0	1.0	266
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 Hydrocarbon	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 447 P_c² 199809

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		32	1024	198785
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{199809}{198785}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.004$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 267$

Absolute Open Flow	267	Mcf @ 15.025	Angle of Slope	U. S. Oil & Gas
Remarks:				

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