

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 7-16-79	
Company Benson Mineral Group, Inc.				Connection None			
Pool Rusty Chacra Extension				Formation Chacra		Unit	
Completion Date 7-16-79		Total Depth 2150'		Plug Back TD 1968'		Elevation 6899' GR	
Farm or Lease Name Navajo 18							
Crg. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 2147'	Perforations: From 1820 To 1884		Well No. 1	
Teg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 1922'	Perforations: Open-ended		Unit Sec. Twp. Rge. N 18-22N-6W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Sandoval	
Producing Thru casing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a New Mexico	
L 1922	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	380	60	30 days
1.	2" x 1/4"			19.6			0		19.6		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	-	-	19.6	1.0	1.0	1.0	46.4
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 392	P _c ² 153664	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{153664}{152665.44}$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.005$
NO.	P _r ²	P _w	P _w ²
1		31.6	998.56
2			
3			
4			
5			

Absolute Open Flow 47 Mcfd @ 15.025		Angle of Slope 0.85	
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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COPY TO

Paul C. Ellison