

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 1-27-79	
Company Benson Mineral Group, Inc.				Connection None		
Pool Rusty Chacra Extension				Formation Chacta		Unit
Completion Date 8-28-78		Total Depth 2150'		Plug Back TD 1764'		Elevation 6796' GR
Casing Size 4 1/2"		Wt. 9.5#	Set At 1728'	Perforations: From 1440 To 1600		Well No. #1
Tub. Size 2 3/8"		Wt. 2.375#	Set At 1723'	Perforations: Open - Ended From To		Unit Sec. Twp. Rge. 20 - 22N - 7W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Sandoval
Producing thru tubing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		State New Mexico
L 1723	H	Gg .60	% CO ₂	% H 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	5 months						380	60	385	60	3 hrs.
1.							31		83		
2.											
3.											
4.											

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		43	1.0	1.0	1.0	532
2.							
3.							
4.							
5.							

NO.	P _t	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 397 P _c ² 157609			
NO.	P _t	P _w	P _w ²
1		95	9025
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{157609}{148584}$$

$$AOI = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 559$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.051$$

Absolute Open Flow	559	Mcf/d @ 15.025	Angle of Slope	85
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Remarks: _____

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