

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
 Revised 9-1965

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 1-27-79					
Company Benson Mineral Group, Inc.				Connection None	
Pool Rusty Chacra Extension				Formation Chacra	
Completion Date 6-30-78		Total Depth 2093'		Elevation 6922' GR	
Form or Lease Name Dome Rusty 30-22-6					
Cng. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 2092'	Perforations: From 1758' To 1854'	
Well No. #1					
Cng. Size 2 3/8"	Wt. 2.375#	d 1.995	Set At 1999'	Perforations: From Open-Ended To 	
Unit 2 Sec. 30 Twp. R6W					
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	
Baro. Press. - P _a New Mexico					
L 1999	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	
1	7 months						485	60	490	60	7 Mo 3 hrs
2							110		270		
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. Factor, F _{spv}	Rate of Flow Q, Mcfd
1	12.365		122	1.0	1.0	1.0	1509
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2					Specific Gravity Separator Gas	
3					Specific Gravity Flowing Fluid	
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

P _c 502	P _c ² 252004	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{252004}{172480}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.38$
NO.	P _w	P _w ²	P _w ² - P _c ²
1	282	79524	172480
2			
3			
4			
5			

Absolute Open Flow 2083 Mcfd @ 15.025		Angle of Slope θ .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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