NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-27-79	
Company: Benson Mineral Group, Inc.		Connection: None			
Pool: Rusty Chacra Extension		Formation: Chacra			Unit
Completion Date: 6-30-78	Total Depth: 1882'		Plug Back TD	Elevation: 6802' GR	Farm or Lease Name: Navajo 21
Csg. Size: 4½" / Wt.: 9.5# / d: 4.090 / Set At: 1879'			Perforations: From 1543 To 1630		Well No.: #1
Tbg. Size: 2 3/8" / Wt.: 2.375# / d: 1.995 / Set At: 1836			Perforations: From Open-Ended To		Unit: Sec. 21- Twp. 22N- Rge. 7W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Sandoval
Producing Thru: tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F: 60	Baro. Press. – P_a		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
1836		.60						

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI	7 months					415	60	410	60	
1.						35		105		3 hrs
2.										
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		47	1.0	1.0	1.0	581
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 427 P_c^2 182329

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		117	13689	168640
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{182329}{168640}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.07$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 621$

RECEIVED FEB 5 1979 OIL CON. COM. DIST. 3

Absolute Open Flow 621 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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