STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [✓] Special			Test Date: 10-16-81	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Blanco	Formation: Pictured Cliffs Ext.		Unit	
Completion Date: 8-18-81	Total Depth: 2950'	Plug Back TD: 2880'	Elevation: 6300' GR	Farm or Lease Name: Chamberlain
Csg. Size: 4.500 / Wt.: 10.5# / d: 4.052 / Set At: 2935'	Perforations: From To			Well No.: 2
Tbg. Size: 1.900 / Wt.: 2.9# / d: 1.610 / Set At: 2817'	Perforations: From 2789' To 2854'			Unit: A / Sec.: 14 / Twp.: 32N / Rge.: 12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - G.G.		Packer Set At: 2675'		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: θ	Mean Annual Temp. °F	Baro. Press. – P_a: 12.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	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					988				
1.	2" X 3/4"				88				1 hr
2.					86				2 hrs
3.					76				3 hrs
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		88.2	1.0000	.9258	1.0000	1010
2.							
3.							
4.							
5.							

NO.	P_r	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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1000.2 P_c^2 1000400.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		88.2	7779.2	992620.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0078$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0067$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1017$

Absolute Open Flow 1017 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Dick Irvin	James Smith	L.O. Van Ryan