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

OIL CON. DIV.
DIST. 3

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 12-29-82	
Company: Southland Royalty Company			Connection: Northwest Pipeline Corporation		Unit
Pool: East Blanco			Formation: Pictured Cliffs Extension		
Completion Date: 11-09-82	Total Depth: 4000'		Plug Back TD: 3945'	Elevation: 6853' GL	Farm or Lease Name: Simms Federal
Csg. Size: 4.500 / Wt.: 10.5# / d: 4.052 / Set At: 3985'			Perforations: From ____ To ____		Well No.: 3
Tbg. Size: 1.900 / Wt.: 2.9# / d: 1.610 / Set At: 3874'			Perforations: From 3654' To 3912'		Unit: E / Sec.: 11 / Twp.: 30N / Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: -----		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F:	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										
1.	2"	X 5/8"				895		1195		
2.						331		779		1 hr
3.						283		677		2 hrs
4.						241		601		3 hrs
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	8.5417		253.2	1.0000	.9258	1.0000	2002
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1207.2 P_c^2 1457331.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		613.2	376014.2	1081317.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3477$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2887$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2580$

Absolute Open Flow 2580 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Odell Farley	James Smith	R. E. Fielder