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

RECEIVED
DEC 30 1981
OIL CON. COM.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12/09/81
Company: Southland Royalty Company		Connection: Northwest Pipeline Corporation		Unit:
Pool: Blanco		Formation: Pictured Cliffs Extension		
Completion Date: 11-20-81	Total Depth: 4185'	Plug Back TD: 4142'	Elevation: 7153' GL	Farm or Lease Name: Ruben Canyon
Csg. Size: 4.500 / Wt.: 10.5# / d: 4.052 / Set At: 4185'		Perforations: From To		Well No.: 1
Tbg. Size: 1.900 / Wt.: 2.9# / d: 1.610 / Set At: 4079'		Perforations: From 4048' To 4112'		Unit: E / Sec.: 35 / 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					1100		1100		
1.	2" X 3/4"				160		537		1 hr
2.					125		458		2 hrs
3.					97		474		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		109.2	1.0000	.9258	1.0000	1250
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 1112.2 P_c^2 1236988.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		486.2	236390.4	1000598.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2362$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1975$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1497$

Absolute Open Flow 1497 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve McCament	James Smith	L. O. Van Ryan