OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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: [x] Initial [ ] Annual [ ] Special				Test Date: 11-17-80	
Company: Southland Royalty Company		Connection: Northwest Pipeline Corporation			
Pool: Blanco		Formation: Mesa Verde		Unit	
Completion Date: 9-28-80	Total Depth: 8700'	Plug Back TD: 8696'	Elevation: 6999' GR	Farm or Lease Name: Reese Mesa	
Csg. Size: 7.000 / 4.500	Wt.: 20 & 23# / 10.5 & 11.6	d: 6.366 / 4.052	Set At: 6652' / 8698'	Perforations: From To	Well No.: #6
Tbg. Size: 1.900	Wt.: 2.9#	d: 1.610	Set At: 6327'	Perforations: From 6063' To 6349'	Unit: J; Sec.: 10; Twp.: 32N; Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: GG-Multiple			Packer Set At: 6575'		County: San Juan
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

	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					1121		1102		
1.	2" X 3/4"				92		628		1 Hour
2.					78		543		2 Hours
3.					59		522		3 Hours
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		71.2	1.0000	.9258	1.0000	815
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 1133.2 P_c^2 1284142.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		534.2	285369.6	998772.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2857$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2074$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 984$

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

RECEIVED
DEC 8 1980
OIL CON. COM.
DIST. 3

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Don Thompson	James Smith	L. O. Van Ryan