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: [X] Initial [ ] Annual [ ] Special				Test Date: 9-10-80	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Blanco		Formation: Mesa Verde		Unit	
Completion Date: 8-25-80	Total Depth: 7063'	Plug Back TD: 7019'	Elevation: 5976' GR	Farm or Lease Name: Thompson	
Csg. Size: 7.625 / 5.500	Wt.: 26.40# / 15.50#	d: 6.969 / 4.950	Set At: 4580' / 4426'-7063'	Perforations: From ___ To ___	Well No.: #5M
Tbg. Size: 1.900	Wt.: 2.76#	d: 1.610	Set At: 4918'	Perforations: From 4652' To 4904'	Unit: I Sec.: 33 Twp.: 31N Rge.: 12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: GG-Multiple			Packer Set At: 5025'		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 0	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2		State: New Mexico
L	H	Gg: .700	% 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
S					1032		1054		
1	2" X 3/4"				259		934		1 Hour
2					241		898		2 Hours
3					236		881		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		248.2	1.0000	.9258	1.0000	2841
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 ___ XXXXXXXX
Specific Gravity Flowing Fluid XXXXX ___
Critical Pressure ___ P.S.I.A. ___ P.S.I.A.
Critical Temperature ___ R ___ R

P_c 1066.2 P_c^2 1136782.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		893.2	797806.2	338976.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3536$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4782$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7040$

Absolute Open Flow 7040 Mcfd @ 15.025 Angle of Slope θ ___ Slope, n .75

Remarks: ___

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Tom Wagner	James Smith	L. O. Van Ryan