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: 12-13-82	
Company: Southland Royalty Company			Connection: Southern Union Gathering		
Pool: Basin			Formation: Dakota		Unit
Completion Date: 12-08-82	Total Depth: 7170'		Plug Back TD: 7118'	Elevation: 5865' GR	Farm or Lease Name: Calloway
Csg. Size: 7.000 / 4.500	Wt.: 23# / 10.5# / 11.6#	d: 6.366 / 4.052 / 4.000	Set At: 4638' / 4516-7168'	Perforations: From / To	Well No.: 3
Tbg. Size: 2.375	Wt.: 4.7#	d: 1.995	Set At: 7042'	Perforations: From 6867' To 7061'	Unit: E Sec.: 22 Twp.: 31N Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. - Multiple			Packer Set At: 4755'		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: .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
SI					1757				
1.	2" X 3/4"				106				1 hr
2.					90				2 hrs
3.					59				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		71.2	1.0000	.9258	1.0000	815
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r
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 1769.2 P_c^2 3130068.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		71.2	5069.4	3124999.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0016$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0012$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 816$

Absolute Open Flow 816 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved by Division	Conducted By:	Calculated By:	Checked By:
	Don Thompson	James Smith	C.C. Parsons