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: 11-18-80	
Company: Southland Royalty Company		Connection:			
Pool: So. Blanco		Formation: Pictured Cliffs			Unit:
Completion Date: 9-19-80	Total Depth: 2968'	Plug Back TD: 2938'		Elevation: 7328'	Farm or Lease Name: Huber
Csg. Size: 2.875 / Wt.: 6.5# / d: 2.441 / Set At: 2948'		Perforations: From 2765' To 2859'			Well No.: #1
Tbg. Size: -- / Wt.: -- / d: -- / Set At: --		Perforations: From To			Unit: E / Sec.: 31 / Twp.: 23N / Rge.: 1W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - G		Packer Set At: --			County: Sandoval
Producing Thru: Casing	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

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							697		
1.	2" X 3/4"						189		1 Hour
2.							103		2 Hours
3.							67		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		79.2	1.0000	.9258	1.0000	907
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 709.2 P_c^2 502964.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		79.2	6272.6	496692.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0126$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0107$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 917$

Absolute Open Flow 917 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Odell Farley	James Smith	L. O. Van Ryan