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: 9-18-81	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company		
Pool: Blanco		Formation: Mesa Verde		Unit
Completion Date: 12-23-80	Total Depth: 8200'	Plug Back TD: 8148'	Elevation: 7127' GR	Farm or Lease Name: Johnson
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.892 / 4.950 / Set At: 8191'		Perforations: From To		Well No.
Tbg. Size: 1.900 / Wt.: 2.76# / d: 1.610 / Set At: 5883'		Perforations: From 5856' To 5886'		Unit: I / Sec.: 7 / Twp.: 25N / Rge.: 3W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - G.G.		Packer Set At: 5981'		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: 0	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						1265		1265		
1.	2"	X 3/4"				90		440		1 hr
2.						45		275		2 hrs
3.						34		232		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		46.2	1.0000	.9258	1.0000	529
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 1277.2 P_c^2 1631239.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		244.2	59633.6	1571606.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0379$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0283$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 544$

RECEIVED
OCT 16 1981
OIL CON. DIV.

Absolute Open Flow 544 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Dwayne Horton	James Smith	L. O. Van Ryan