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: 9-07-81	
Company: Southland Royalty Company		Connection: El Paso Natural Gas Company			
Pool: Basin		Formation: Dakota		Unit	
Completion Date: 8-12-81	Total Depth: 6668'	Plug Back TD: 6623'	Elevation: 6463' GR	Farm or Lease Name: Federal	
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.950 / Set At: 6668'		Perforations: From To		Well No.: 12-14	
Tbg. Size: 1.900 / Wt.: 2.9# / d: 1.610 / Set At: 6510'		Perforations: From 6414' To 6530'		Unit: N / Sec.: 12 / Twp.: 26N / Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - G.O.		Packer Set At: 5939'		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: θ	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					337				
1.	2" X 3/4"				0				1 hr
2.					0				2 hrs
3.					0				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		12.2	1.0000	.9258	1.0000	140
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	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 349.2 P_c^2 121940.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		12.2	148.8	121791.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0012$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0009$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 140$

Absolute Open Flow 140 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Richard Ramos	James Smith	L.O. Van Ryan