

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-7-81	
Company Southland Royalty Company				Connection El Paso Natural Gas Company	
Pool Basin				Unit	
Completion Date 4-13-81		Total Depth 6650'		Plug Back TD 6605'	
				Elevation 6095' GR	
Csg. Size 4.500		Wt. 10.5#		Set At 6650'	
Perforations: From 6452' To 6531'				Well No. 1-E	
Tbg. Size 2.375		Wt. 4.7#		Set At 6526'	
Perforations: From To				Unit Sec. Twp. Rye. M 5 27N 11W	
Type Well - Single - Drilled - G.C. or G.O. Multiple Single - G.C.				Packer Set At ---	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F #				State New Mexico	
Mean Annual Temp. °F				Baro. Press. - P _a	
L		H		Gg	
% CO ₂		% N ₂		% H ₂ S	
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							644#		1081#	
1.							3 oz		304	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1					PITOT TUBE		264
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/lbl.	Deq.
1.												
2.												
3.												
4.												
5.												

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²
1				
2				
3				
4				
5				

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

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

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

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____
Remarks: _____		
Approved By Division	Conducted By: Tom Wagner	Calculated By: James Smith
		Checked By: L.O. Van Ryan