STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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: 2-27-81	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Undesignated ~~Bloomfield~~	Formation: Chacra			Unit
Completion Date: 2-20-81	Total Depth: 6447'	Plug Back TD: 6404'	Elevation: 5557' GR	Farm or Lease Name: Cozzens "C"
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.050 / Set At: 6445'		Perforations: From To		Well No.: 1E
Tbg. Size: 1.900 / Wt.: 2.76 / d: 1.610 / Set At: 2814'		Perforations: From 2712' To 2820'		Unit: E / Sec.: 20 / Twp.: 29 / Rge.: 11
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - GG		Packer Set At: 2915'		County: San Juan
Producing Thru: Tbg.	Reservoir Temp. °F	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						949		950		
1.	2"	x 3/4"				207		587		1 hr
2.						183		508		2 hrs
3.						166		459		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		178.2	1.0000	.9258	1.0000	
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

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OIL CON. COM.
DIST. 3

P_c 962.2 P_c^2 925828.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		471.2	222029.4	703799.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3155$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2625$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2575$

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

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Kelly Maxwell	James Smith	