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: 8-6-81	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Basin		Formation: Dakota		Unit	
Completion Date: 4-20-81	Total Depth: 6640'	Plug Back TD: 6599'	Elevation: 5733' GR	Farm or Lease Name: Cooper "B"	
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.950 / Set At: 6640'		Perforations: From 6366' To 6573'		Well No.: 1-E	
Tbg. Size: 2.375 / Wt.: 4.7# / d: 1.995 / Set At: 6534'		Perforations: From To		Unit: P / Sec.: 7 / Twp.: 29N / Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - G.G.		Packer Set At: -----		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F:	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

	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						843		1001		
1.	2"	X 3/4"				103		458		1 hr
2.						49		368		2 hrs
3.						37		348		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		49.2	1.0000	.9258	1.0000	563
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXXXXXX
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 1013.2 P_c^2 1026574.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		360.2	129744.0	896830.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1447$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1066$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 623$

Absolute Open Flow 623 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Kelly Maxwell	James Smith	L. O. Van Ryan