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: 7-09-82	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Kutz		Formation: Fruitland		Unit:	
Completion Date: 6-24-82	Total Depth: 2950'	Plug Back TD: 2939'	Elevation: 5767' GL	Farm or Lease Name: Hughes	
Csg. Size: 2.875 / Wt.: 6.5# / d: 2.441 / Set At: 1640'		Perforations: From 1490' To 1558'		Well No.: 3	
Tbg. Size: ---- / Wt.: --- / d: ----- / Set At: -----		Perforations: From ---- To ----		Unit: B / Sec.: 23 / Twp.: 28N / Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. - Multiple		Packer Set At: ------		County: San Juan	
Producing Thru: Casing	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								309		
1.	2"	X 3/4"						91		1 hr
2.								74		2 hrs
3.								64		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		76.2	1.0000	.9258	1.0000	872
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 321.2 P_c^2 103169.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		76.2	5806.4	97363.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0596$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0505$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 916$

Absolute Open Flow 916 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Tom Wagner	James Smith	R. E. Fielder