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: 5-5-81	
Company: Southland Royalty Company			Connection: Southern Union Gathering		
Pool: Basin			Formation: Dakota		Unit
Completion Date: 4-6-81	Total Depth: 6690'		Plug Back TD: 6646'	Elevation: 6118' GR	Farm or Lease Name: Hanks
Csg. Size: 5.500 / Wt.: 15.50# / d: 4.950 / Set At: 6690'			Perforations: From To		Well No.: 14-E
Tbg. Size: 1.900 / Wt.: 2.90# / d: 1.610 / Set At: 6620'			Perforations: From 6430' To 6622'		Unit: O / Sec.: 12 / Twp.: 27N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - G.G.			Packer Set At: 2209'		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					869				
1.	2" X 3/4"				80				1 hr
2.					58				2 hrs
3.					45				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		57.2	1.0000	.9258	1.0000	655
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 _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 881.2 P_c^2 776513.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		57.2	3271.8	773241.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0042$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0032$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 657$

Absolute Open Flow 657 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Kellenaers	James Smith	L. O. Van Ryan