OIL CONSERVATION DIVISION

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: 9-01-81	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Basin		Formation: Dakota		Unit	
Completion Date: 8-20-81	Total Depth: 7105'	Plug Back TD: 7060'	Elevation: 6466' GL	Farm or Lease Name: Hanks	
Csg. Size: 5.500 / Wt.: 15.50# / d: 4.892 / Set At: 7105'		Perforations: From To		Well No.: 18-M	
Tbg. Size: 1.900 / Wt.: 2.90# / d: 1.610 / Set At: 7046'		Perforations: From 6913' To 7072'		Unit: I / Sec.: 5 / Twp.: 27N / Rge.: 9W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple - G.G.		Packer Set At: 5182'		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: B	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

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1113				
1.	2" x 3/4"				130				1 hr
2.					65				2 hrs
3.					55				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		67.2	1.0000	.9258	1.0000	769
2.							
3.							
4.							
5.							

NO.	P_t	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

OIL CON. COM.
DIST. 3

P_c 1125.2 P_c^2 1266075.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		67.2	4515.8	1261559.2
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0036$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0027$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 771$

Absolute Open Flow 771 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Larry Bannowsky	James Smith	L.O. Van Ryan