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

RECEIVED AUG 23 1982 OIL CON. DIV. DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 8-18-82	
Company: Southland Royalty Company		Connection: Southern Union Gathering		Unit
Pool: Basin		Formation: Dakota		
Completion Date: 7-17-82	Total Depth: 7000'	Plug Back TD: 6955'	Elevation: 6350' GL	Farm or Lease Name: Hanks
Csg. Size: 5.500 / Wt.: 17# / d: 4.892	Set At: 6997'	Perforations: From To		Well No.: 16E
Tbg. Size: 2.375 / Wt.: 4.70# / d: 1.995	Set At: 6893'	Perforations: From 6802' To 6961'		Unit F, Sec. 6, Twp. 27N, Rge. 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		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	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
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	
SI					1544		1518		
1.	2" X 3/4"				104		577		1 hr
2.					41		456		2 hrs
3.					21		462		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		33.2	1.0000	.9258	1.0000	380
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

P_c 1556.2 P_c^2 2421758.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		474.2	224865.6	2196892.8
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1024$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0758$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 409$

Absolute Open Flow 409 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Flowing oil and water

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Steve Kellenaers	James Smith	R. E. Fielder