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: 3-28-84	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Basin		Formation: Dakota		Unit:	
Completion Date: 1-06-84	Total Depth: 7265'	Plug Back TD: 7082'	Elevation: 6136' KB	Farm or Lease Name: Hampton	
Csg. Size: 7.625 / 5.500	Wt.: 26.40# / 17#-15.5#	d: 6.969 / 4.950-4.892	Set At: 4845' / 4770'-7130'	Perforations: From / To	Well No.: 4M
Tbg. Size: 2.875	Wt.: 6.5#	d: 2.441	Set At: 6967'	Perforations: From 7010' To 7100'	Unit: N; Sec.: 13; Twp.: 30N; Rge.: 11W
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		
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						1762				
1.	2"	X 3/4"				112				1 hr
2.						79				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

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DIST. 3

P_c 1774.2 P_c^2 3147785.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		76.2	5806.4	3141979
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.002$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.001$

$2.$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 873$

Absolute Open Flow 873 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Medium mist during test.

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