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

RECEIVED
MAR 20 1984
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-14-84	
Company: Southland Royalty Company		Connection: Southern Union Gathering			
Pool: Basin		Formation: Dakota		Unit	
Completion Date: 3-4-84	Total Depth: 6645'	Plug Back TD: 6597'	Elevation: 6063' GL	Farm or Lease Name: Hanks	
Csg. Size: 5.500 / Wt.: 15.50# 17# / d: 4.950 4.892 / Set At: 6645'		Perforations: From To		Well No.: 13E	
Tbg. Size: 2.375 / Wt.: 4.70# / d: 1.995 / Set At: 6517'		Perforations: From 6363' To 6520'		Unit: C / Sec.: 12 / Twp.: 27N / Rge.: 10W	
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: .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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							1325		1330		
1.	2"	X	3/4"				125		425		1 hour
2.							90		335		2 hours
3.							75		305		3 hours
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		87.2	1.0000	.9258	1.0000	998
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1342.2 P_c^2 1801500.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		317.2	100615.8	1700885.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.059$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.044$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1042$

Absolute Open Flow 1042 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Heavy mist of oil throughout test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Mick Ferrari	James W. Smith	R. E. Fielder