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
DEC 30 1981
OIL CON. COM.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12/02/81	
Company: Southland Royalty Company		Connection: Northwest Pipeline Corporation			Unit
Pool: Blanco		Formation: Pictured Cliffs Extension			
Completion Date: 11-23-81	Total Depth: 4050'	Plug Back TD: 4007'	Elevation: 6911' GL	Farm or Lease Name: Simms Federal	
Csg. Size: 4.500 / Wt.: 10.5# / d: 4.052 / Set At: 4050'		Perforations: From To		Well No.: 2	
Tbg. Size: 1.900 / Wt.: 2.9# / d: 1.610 / Set At: 3907'		Perforations: From 3689' To 3952'		Unit: O / Sec.: 11 / Twp.: 30N / Rge.: 4W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: ----		County: Rio Arriba	
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

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					400		1240		
1.	2" X 3/4"				160		650		1 hr
2.					125		560		2 hrs
3.					105		565		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		117.2	1.0000	.9258	1.0000	1342
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

P_c 1252.2 P_c^2 1568004.8

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		577.2	333159.8	1234845.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2698$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2251$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1644$

Absolute Open Flow 1644 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Richard Lopez	James Smith	L.O. Van Ryan