ATTACHMENT 1

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-

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-22-81	
Company: Southland Royalty Company			Connection: Northwest Pipeline Corporation		
Pool: Undesignated			Formation: Gallup		Unit
Completion Date: 9-11-81	Total Depth: 8720'		Plug Back TD: 8300'	Elevation: 7023' GL	Farm or Lease Name: Simms Federal
Csg. Size: 5.500 / Wt.: 15.5# / d: 4.950 / Set At: 8731'			Perforations: From ____ To ____		Well No.: 1
Tbg. Size: 2.375 / Wt.: 4.7# / d: 1.995 / Set At: 7588'			Perforations: From 7560' To 7634'		Unit: J / Sec.: 13 / Twp.: 30N / Rg.: 4
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: -----		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: P	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	Duratio of Flow
SI						2420		2431	surface pressure	
1.	2"	X 3/4"				354		758	calculated	1 hr
2.						209		750	BHP	2 hrs
3.						90		703	"	3 hrs
4.									2955	
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		102.2	1.0000	.9258	1.0000	1170
2.							
3							
4							
5							

APPLICATION OF ROBERT L. BAYLESS
Simms Com #1
Downhole Commingle
NMOCD Docket #28-93; Case #10831

EXHIBIT NO. 3

Gas Liquid Hydrocarbon Ratio _____
A.P.I. Gravity of Liquid Hydrocarbons _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____

OCT 1993
OIL CON. DIV.
DIST. 3

P_c 2443.2 P_c^2 5969226.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		715.2	511511.0	5457715
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0937$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0695$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1251$

Absolute Open Flow 1251 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division | Conducted By: | Calculated By: | Checked By: