

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2080
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> 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		Well No. J			
Csq. Size 5.500	Wt. 15.5#	d 4.950	Set At 8731'	Perforations: From _____ To _____	
Tq. Size 2.375	Wt. 4.7#	d 1.995	Set At 7588'	Perforations: From 7560' To 7634'	
Type Well - Single - Drivenhead - G.C. or C.O. Multiple Single				Packer Set At -----	
Producing thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F 12.2	
L		H		Cg	
				.700	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				Prover	
				Meter Run	
				Taps	
				County Rio Arriba	
				State New Mexico	

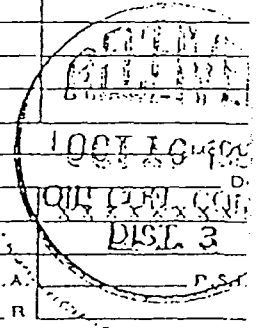
FLOW DATA							TUBING DATA		CASING DATA		Duratio of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2420		2431		
1.	2"	X	3/4"				354		758		1 hr
2.							209		750		2 hrs
3.							90		703		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mgd
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 _____ X X X X X
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R



P_c 2443.2	P_c^2 5969226.2					
NO	P_1^2	P_w	P_2^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0937$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0695$
1		715.2	511511.0	5457715		
2						
3						
4						
5						

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

Absolute Open Flow 1251 Mgd @ 15.075 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By: _____ Conducted By: _____ Calculated By: _____ Checked By: _____