NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 4-12-78	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Basin		Formation: Dakota		Unit
Completion Date: 3-23-78	Total Depth: 7271'	Plug Back TD: 7134'	Elevation: 6027'	Farm or Lease Name: Nye
Csg. Size: 7.000 / 4.500	Wt.: 23# / 11.60#	d: 6.366 / 4.000	Set At: 5411' / 5255'-7270'	Perforations: From 6986' To 7093'
Well No.: 3A				
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 7019'	Perforations: From To
Unit: P	Sec.: 1	Twp.: 30N	Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple		Packer Set At: -		County: San Juan
Producing Thru: Tbg	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					1636				
1.	2" X 3/4"				38				1 hr
2.					34				2 hrs
3.					30				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		42.2	1.0000	.9258	1.0000	483
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 1648.2 P_c^2 2,716,563

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		42.2	1781	2,714,782
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0006$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0005$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 483$

Absolute Open Flow 483 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Abel Saiz	James Smith	