NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: XX Initial ☐ Annual ☐ Special			Test Date: 1-9-79	
Company: Southland Royalty Company	Connection: Gas Company of New Mexico			
Pool: Basin	Formation: Dakota		Unit	
Completion Date: 1-2-79	Total Depth: 8306'	Plug Back TD: 8300'	Elevation: 7139' GR	Farm or Lease Name: Jicarilla 101
Csg. Size: 7.625 / 5.500 — Wt.: 26.40 17# / 15.5# — d: 6969 / 4.892 / 4.950 — Set At: 4190 / 4039-8305 — Perforations: From 8092' To 8275'				Well No.: #1A
Tbg. Size: 2.0625 — Wt.: 3.25# — d: 1.750 — Set At: 8244' — Perforations: From To				Unit: (I) Sec. Twp. 1-26N-4W Rge.
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple		Packer Set At: 6260'		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	% 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	Duration of Flow
SI					1569				
1.	2" X 3/4"				68				1 hr.
2.					62				2 hrs.
3.					55				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		67.2	1.0000	.9258	1.0000	769
2.							
3.							
4.							
5.							

NO.	P_t	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 1581.2 P_c^2 2500193

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		67.2	4516	2495677
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0018$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0014$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 770$

Absolute Open Flow 770 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Don Thompson	James Smith	