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: 4-1-78	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Blanco	Formation: Mesa Verde			Unit
Completion Date: 3-18-78	Total Depth: 5203'	Plug Back TD: 5057'	Elevation: 6017'	Farm or Lease Name: East
Csg. Size: 7.000 / 4.500 — Wt.: 20# / 10.50# — d: 6.456 / 4.052 — Set At: 2781 / 2633-5190		Perforations: From 4609' To 4735		Well No.: #9A
Tbg. Size: 2.375 — Wt.: 4.7# — d: 1.995 — Set At: 5023		Perforations: From 4772' To 5038'		Unit: D — Sec. 25 — Twp. T31N — Rge. R12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		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

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							769		894		
1.	2"	X	3/4"				229		664		1 hr
2.							204		615		2 hrs
3.							192		592		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		204.2	1.0000	.9258	1.0000	2,338
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

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

P_c 906.2 P_c^2 821,198

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		604.2	365,058	456,140
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8003$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3542$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,634$

Absolute Open Flow 3,634 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jim Bacon	James Smith	