NEW MEXICO OIL CONSERVATION COMMSSION

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: 11-28-78	
Company: Southland Royalty Company		Connection: Southern Union Gathering		
Pool: Basin		Formation: Dakota		Unit
Completion Date: 11-21-78	Total Depth: 6607'	Plug Back TD: 6547'	Elevation: 5813' GR	Farm or Lease Name: Reid
Csg. Size: 7.000 / 4.500 — Wt.: 23# / 10.5# — d: 6.366 / 4.052 — Set At: 2320' / 2090-6593		Perforations: From 6471' To 6589'		Well No.: 22-R
Tbg. Size: 2.375 — Wt.: 4.7 — d: 1.995 — Set At: 6572		Perforations: From To		Unit: J — Sec.: 7 — Twp.: 28N — Rge.: 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At:		County: San Juan
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						1275		1403		
1.	2"	X 3/4"				101		380		1 hr.
2.						66		280		2 hrs.
3.						58		240		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		70.2	1.0000	.9258	1.0000	804
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 1,415.2 P_c^2 2,002,791

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		252.2	63,605	1,939,186
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0328$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0245$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 824$

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

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Kelly Maxwell	James Smith	