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: 10-18-78

Company: Southland Royalty Company — Connection: Southern Union Gathering

Pool: Blanco — Formation: Mesa Verde — Unit:

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
10-11-78	5337'	5335'	6164 KB 6151 GR	Grenier "A"

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
7.000 4.500	20# 10.5#	6.456 4.052	3034' 2874'-5336	From 4344' To 4919' CH	#1A

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2.375	4.7#	1.995	5187'	From 4985' To 5196' PL	C	26	30N	10W

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
GG Multiple	2874' (PBR SA)	San Juan

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	@		12.2	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					799				
1.	2" x 3/4"				240				1 hr.
2.					160				2 hrs.
3.					139				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		151.2	1.0000	.9258	1.0000	1731
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 811.2 P_c^2 658045

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		151.2	22861	635,184
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0360$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0269$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1778$

Absolute Open Flow 1,779 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: _____

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