

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-20-78	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Blanco		Formation Mesa Verde	
Completion Date 4-27-78		Total Depth 5405'	Plug Back TD 5277'
		Elevation 6212 GL	Form or Lease Name Richardson
Gas Size 4.980	Wt. 20#	d 6.456	Set At 2945'
Perforations: From 4986' To 5240'	Well No. #3A		
Trq. Size 2.375	Wt. 4.7#	d 1.995	Set At 5176
		Perforations: From --- To ---	Unit Soc. Twp. Rge. K 22 31N 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At ---	County San Juan
Producing Thru Tbg	Reservoir Temp. °F 6	Mean Annual Temp. °F 12.2	State New Mexico
L	H	Gg .700	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
1.	2" x 3/4"						915		915		
2.							319		756		1 hr
3.							299		715		2 hrs
4.							289		682		3 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf/d
1.	12.365		301.2	1.0000	.9258	1.0000	3448
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _r 927.2 P _w 859,700	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.2756$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.8528$
NO. P _r P _w P _r ² P _w ² P _r ² - P _w ²		
1. 694.2 481,914 377,786		
2.		
3.		
4.		
5.		

Absolute Open Flow 6388		Mscf/d 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____				
Approved By Commission: _____ Conducted By: Jim Bacon Calculated By: James Smith Checked By: _____				