

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	
Company Southland Royalty Company				Connection Southern Union Gathering Company			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 9-2-78		Total Depth 5290'		Plug Back TD 5290'		Elevation 5981' GR	
Casing 7.500 4.500		Wt. 23.00 10.50		d 6.366 4.052		Set At 3043' 2900-5290'	
Perforations: From 2724' To 2779'		Well No. #1A					
Tbg. Size 1.660		Wt. 2.33		d 1.380		Set At 2712'	
Perforations: From - To -		Unit D		Sec. 12-T31N-R11W		Twp. Rge.	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.						Packer Set At 3097'	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 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"				946		947		
2.							160		639		1 hr
3.							129		524		2 hrs
4.							110		455		3 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		122.2	1.0000	.9258	1.0000	1,399
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/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 _c 959.2 P _c ² 920,065			
NO.	P _t ²	P _w	P _w ²
1.		467.2	218,276
2.			
3.			
4.			
5.			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.3110$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,761$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2588$$

Absolute Open Flow <u>1,761</u> Mcfd @ 15.025		Angle of Slope θ _____	
Slope, n <u>.85</u>			

Remarks: _____

Approved By Commission	Conducted By Bob Shindledecker	Calculated By James Smith	Checked By
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