

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

Form O-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-6-79				
Company Southland Royalty Company				Connection Northwest Pipeline Corporation					
Pool Undesignated				Formation Pictured Cliffs				Unit	
Completion Date 5-31-79		Total Depth 6595'		Plug Back TD 6503'		Elevation 7050' GR		Farm or Lease Name Reese Mesa	
Cg. Size 4.500		Wt. 20# 10.5#		d 6.456 4.052		Set At 4212' 4034-6595'		Perforations: From 3830' To 3988'	
Tbg. Size 1.900		Wt. 2.75#		d 1.610		Set At 3955'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple					Packer Set At 4155'		County San Juan		
Producing Thru Tbg		Reservoir Temp. °F θ		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.	
SI							1465		1465	
1.	2" X 3/4"						275		1145	1 hr.
2.							240		1030	2 hrs.
3.							215		955	3 hrs.
4.										
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, Mcfd
1	12.365		227.2	1.0000	.9258	1.0000	2601
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 1477.2 P _c ² 2,182,120				
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		967.2	935,476	1246644
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7504$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6094$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4186$

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: Light mist thru test.			

Approved By Commission:	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By:
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