

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-25-81			
Company Southland Royalty Company				Connection Northwest Pipeline Corporation					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 1-13-81		Total Depth 3450'		Plug Back TD 3410'		Elevation 6343' GR		Farm or Lease Name Creek	
Csq. Size 4.500	Wt. 24#	d 4.052	Set At 3448'	Perforations: From To		Well No. 2			
Thq. Size 1.900	Wt. 2.90#	d 1.610	Set At 3365'	Perforations: From 3157' To 3391'		Unit Sec. Twp. Rge. H 4 29 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G						Packer Set At		County Rio Arriba	
Producing Thru		Reservoir Temp. °F #		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1019		1215	
1.	2" x 3/4						187		816	1 hr.
2.							154		717	2 hrs.
3.							128		652	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		140.2	1.0000	9258	1.0000	1605
2.							
3.							
4.							
5.							

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

P _c 1227.2 P _c ² 1506019.8						
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4143$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3426$
1		664.2	441161.6	1064858.2		
2						
3						
4						
5						

Absolute Open Flow 2155 Mcfd @ 15.025				Angle of Slope @		Slope, n 85	
Remarks:							
Approved By Division		Conducted By: Don Thompson		Calculated By: James Smith		Checked By: L.O. Van Ryan	