

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 3-27-79					
Company Southland Royalty Company				Connection Southern Union Gathering							
Pool Blanco				Formation Mesaverde		Unit					
Completion Date 3-21-79		Total Depth 5783'		Plug Back TD 5773'		Elevation 7103' GR					
Farm or Lease Name Hanks		Well No. #24		Perforations: From 5447' To 5764'		Unit Sec. Twp. Rye B 5-27N-9W					
Csg. Size 7.000 4.500 1.900	Wt. 20# 10.5# 2.76#	d 6.456 4.052 1.610	Set At 3400' 3239'-5773' 5640'	Perforations: From To		Unit Sec. Twp. Rye					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.O. Multiple				Packer Set At 4400'		County San Juan					
Producing Thru Tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.2					
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps				
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							841				
1.	2"	X	3/4"				112				1 hr
2.							94				2 hrs
3.							86				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		98.2	1.000	.9258	1.000	1,124				
2.											
3.											
4.											
5.											
NO.	P _r	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						
$P_c = 853.2$ $P_c^2 = 727,950$											
NO.	P_i^2	P_w^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0134$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0101$			
1		98.2	9,643	718,307							
2											
3											
4											
5											
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,135$											
Absolute Open Flow				1,135	Mcf @ 15.025		Angle of Slope @	Slope, n .75			
Remarks: H ₂ O & small amount of waxv oil											
Approved By Commission:				Conducted By: Abel Saiz		Calculated By: James Smith		Checked By: 			