

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-24-79							
Company Southland Royalty Company				Connection Southern Union Gathering							
Pool Blanco				Formation Mesa Verde							
Completion Date 5-17-79		Total Depth 4711'		Elevation 5673' GR							
Well No. 22		Farm or Lease Name Hare									
Wellbore 2.375		Casing 4.7#		Perforations: From 3891' To 4416'							
Wellbore 2.375		Casing 4.7#		Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 2195' PBR							
Producing Thru Tbg		Reservoir Temp. °F #		Baro. Press. - P _a 12.2							
L		H		Prover							
G _g .700		% CO ₂		% N ₂							
% H ₂ S		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	Duration of Flow
SI							734				
1.	2"	X	3/4"				143				1 hr.
2.							122				2 hrs.
3.							106				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		118.2	1.0000	.9258	1.0000	1353				
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
1.					Specific Gravity Separator Gas _____				X X X X X X X X X		
2.					Specific Gravity Flowing Fluid _____				OIL CON. XOOM.		
3.					Critical Pressure _____				DIST. 3 P.S.I.A.		
4.					Critical Temperature _____				R _____ R		
5.											
P _c 746.2 P _c 556,814					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0257$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0192$						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²							
1		118.2	13,971	542,843							
2											
3											
4											
5											
Absolute Open Flow 1379 Mcfd @ 15.025					Angle of Slope @			Slope, n .75			
Remarks:											
Approved By Commission:				Conducted By: Dean Lingo				Calculated By: James Smith			
								Checked By: 			