

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 8-13-81		Total Depth 3050'		Plug Back TD 3006'		Elevation 6378' GR		Farm or Lease Name Moore	
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 3038'	Perforations: From To		Well No. 3			
Tbg. Size 1.900	Wt. 2.9#	d 1.610	Set At 2915'	Perforations: From 2870' To 2954'		Unit J	Sec. 35	Twp. 32N	R1/4. 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.						Packer Set At 2616'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _g .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	
SI							838				
1.	2"	X	3/4"				98				1 hr
2.							86				2 hrs
3.							82				3 hrs
4.											
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		94.2	1.0000	.9258	1.0000	1078
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
3.					Specific Gravity Flowing Fluid	X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

$P_c = 850.2$ $P_c^2 = 722840.0$					RECEIVED SEP 17 1981 OIL CON. COM. DIST. 3	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0124$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0106$
1		94.2	8873.6	713966.4		
2						
3						
4						
5						

Absolute Open Flow <u>1090</u> Mcfd @ 15.025 Angle of Slope θ Slope, n <u>.85</u>			
Remarks:			
Approved By Division	Conducted By: Dick Irvin	Calculated By: James Smith	Checked By: L. O. Van Ryan