

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-28-80			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Undesignated				Formation Chacra				Unit	
Completion Date 6-14-80		Total Depth 6255'		Plug Back TD 6213'		Elevation 5398'		Farm or Lease Name Mangum	
Csq. Size 5.5000	Wt. 15.5#	d 4.950	Set At 6255'	Perforations: From To		Well No. #5E			
Thq. Size 1.9000	Wt. 2.90#	d 1.610	Set At 2543'	Perforations: From 2530' To 2538'		Unit A	Sec. 29	Twp. 29N	Rge. 11W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple GG-Multiple						Packer Set At 2705'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F ø		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _q .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							0		948		
1.	2" X 3/4"						0		947		1 Hour
2.							0		947		2 Hours
3.							0		947		3 Hours
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							
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _f	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 X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____
1						
2						
3						
4						
5						

Absolute Open Flow _____ Mcfd @ 15.025				Angle of Slope ø _____	Slope, n _____
Remarks: _____					

Approved By Division	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By: L. O. Van Ryan
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