

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-12-81	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Fulcher Kutz				Formation Pictured Cliffs		Unit
Completion Date 4-6-81		Total Depth 6690'		Plug Back TD 6646'		Elevation 6118' GR
Farm or Lease Name Hanks						
Csq. Size 5.500	Wt. 15.50#	d 4.950	Set At 6690'	Perforations: From 2022' To 2052'		Well No. 14-E
Thq. Size 1.900	Wt. 2.76#	d 1.610	Set At 2047'	Perforations: From To		Unit Sec. Twp. Rye. 0 12 27N 10W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.				Packer Set At 2209'		County San Juan
Producing Thru Tubing		Reservoir Temp. °F p		Mean Annual Temp. °F		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							253		253	
1.	2"	X	3/4"				55		169	1 hr
2.							50		163	2 hrs
3.							48		158	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		60.2	1.0000	.9258	1.0000	689
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 265.2 P _c ² 70331.0				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		170.2	28968.0	41363
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.7003$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5702$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1082$$

Absolute Open Flow	1082	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks:			
Approved By Division	Conducted By: Steve Kellenaers	Calculated By: James Smith	Checked By: L.O. Van Ryan