

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 8-25-76			
Company Producing Royalties, Inc.				Connection			
Pool Fulcher Kutz				Formation Pictured Cliffs		Unit	
Completion Date 8-14-76		Total Depth 2060'		Plug Back TD 2003'		Elevation 5783' GR	
Farm or Lease Name Payne				Well No. 1			
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 2042'	Perforations: From 1887' To 1916'		Unit Sec. Twp. Rge. A 11 29N 12W	
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 1913'	Perforations: From Open To Ended			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico							
L	H	G _g .62	% 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							179		181		7 days
1.											
2.											
3.	5/8" Pos Choke						5	64	127		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.							
2.							
3.	8.5417		17	.9962	.9837	1.000	142
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 193	P _c ² 37,249	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0776$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8616$
NO.	P _t ²	P _w	P _w ²
1			
2			
3		139	19,321
4			
5			

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 264$	
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Absolute Open Flow 264 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
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Remarks: Light mist at end of test.			
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Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By:
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