

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 2062'		Plug Back TD 1998'		Elevation 5790' GR	
Farm or Lease Name Payne				Well No. 2			
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 2057'	Perforations: From 1909' To 1926'		Unit Sec. Twp. Rge. F 12 29N 12W	
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 1936'	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	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps
				.62			

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							154		167		7 days
1.											
2.											
3.	5/8" Pos Choke						6	64	146		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, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	8.5417		18	.9962	.9837	1.000	151
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 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	

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.5274$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6097$
1					
2					
3		158	24,964	7077	
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 545$			
Absolute Open Flow 545 Mcfd @ 15.025		Angle of Slope θ _____	
Slope, n .85			

Remarks: Light mist at end of test.			
Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By: