

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-63

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 1-27-78				
Company SOUTHLAND ROYALTY COMPANY				Connection El Paso Natural Gas Company					
Pool Kutz				Formation Gallup				Unit	
Completion Date 6-29-60		Total Depth 6753'		Plug Back TD 6703'		Elevation 6179' GR		Farm or Lease Name Frontier "E"	
Csg. Size 7.000	Wt. 23#	d 6.366	Set At 6746'	Perforations: From 5897' To 5919'			Well No. 1		
Thq. Size 2.375	Wt. 4.70#	d 1.995	Set At 6010'	Perforations: From 5968' To 5993'			Unit Sec. Twp. Rge. 0 4 27N 11W		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Multiple				Packer Set At 6490'		County San Juan			
Producing Thru Csg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		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.		Temp. °F
SI									523		
1.	2" X 3/4"								34		1 Hour
2.									25		2 Hours
3.									21		3 Hours
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		33.2	1.0000	.9258	1.0000	380
2.							
3.							
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 535.2	P _c ² 286,439		
NO.	P _t ²	P _w	P _w ²
1		33.2	1102
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0039$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 381$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0029$$

Absolute Open Flow	381	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By: Donnie Thompson	Calculated By: James Smith	Checked By:
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