

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 10-1-79	
Company Southland Royalty Company				Connection El Paso Natural Gas Company		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 9-24-79		Total Depth 6586'		Plug Back TD 6504		Elevation 7149' GR
Farm or Lease Name Companero						Well No. 2
Csg. Size 7.000 4.500	Wt. 20# 10.50#	d 6.456 4.052	Set At 4356' 4179-6547'	Perforations: From 5874 To 6351		Unit 0
Tbg. Size 2.375	Wt. 4.70#	d 1.995	Set At 6336'	Perforations: From ----- To -----		Unit Sec. Twp. Rge. 0 12 27N 4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 4317'		County Rio Arriba
Producing Thru Tbg		Reservoir Temp. °F 8		Mean Annual Temp. °F 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							880				
1.	2"		3/4"				205				3 hrs
2.											
3.											
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	12.365		217.2	1.0000	.9258	1.0000	2486
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 ²	P _w	P _w ²	P _c ² - P _w ²
1		217.2	47,176	748,845
2				
3				
4				
5				

P_c 892.2 P_c² 796,021

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0630$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0469$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2603$

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Absolute Open Flow	2603	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By:
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