

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 1-22-79	
Company Southland Royalty Company				Connection Gas Company of New Mexico		
Pool Basin				Formation Dakota		Unit
Completion Date 1-08-79		Total Depth 8024		Plug Back TD 8024		Elevation 6914' GR
Csg. Size 7.625 5.500		Wt. 26.40# 17#&15.5#		Set At 3920 3774-8007		Perforations: From 7807 To 7997
Tbg. Size 2.0625		Wt. 3.25# 1.750		Set At 7978		Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At 6105'		County Rio Arriba
Producing Thru Tbg		Reservoir Temp. °F 700		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
L		H		Gg		% 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							587			
1.	2" X 3/4"						0			
2.							0			1 Hr
3.							0			2 Hrs
4.										3 Hrs
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		12.2	1.0000	.9258	1.0000	140
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

$P_c = 587.2$ $P_c^2 = 344,804$				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		12.2	149	344,655
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0004}{1.0003}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0004}{1.0003}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 140$$

Absolute Open Flow	140	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: Don Thompson	Calculated By:	Checked By:
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