

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 9-26-79	
Company Southland Royalty Company			Connection Northwest Pipeline Corporation			
Pool Blanco			Formation Mesa Verde		Unit	
Completion Date 9-19-79		Total Depth 6079'		Plug Back TD 6000'		Elevation 6634' GR
Csg. Size 7.000 4.500		Wt. 23# 10.50#		d 6.366 4.052		Set At 3855' 3718-6075'
Thg. Size 2.375		Wt. 4.70#		d 1.995		Set At 5823'
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G. G. Multiple				Packer Set At 3765'		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1093			
1.	2"		3/4"				149			
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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.365		161.2	1.0000	.9258	1.0000	1845
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 1105.2$ $P_c^2 = 1,221,467$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		161.2	25,985	1,195,482
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0217}{1.0217 - 0.0000} = 1.0217$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0163}{1.0163 - 0.0000} = 1.0163$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1875$$

Absolute Open Flow	1875	Mcfd @ 15.025	Angle of Slope θ	Slope .75
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Remarks:			
Approved By Commission:	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By: