

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 10-31-79	
Company Southland Royalty Company			Connection Northwest Pipeline Corporation			
Pool Campo			Formation Gallup			
Completion Date 10-24-79		Total Depth 7650'		Plug Back TD 7650'		
Elevation 6983' GR		Farm or Lease Name Burns Ranch				
Csg. Size 4.500	Wt. 10.5# 11.6#	d 4.052	Set At 7639'	Perforations: From 7301' To 7435'		
Trg. Size 2.375	Wt. 4.70#	d 1.995	Set At 7434'	Perforations: From --- To ---		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ---		
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F 12.2		
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.	
SI							2545		2567	
1.	2"	x	3/4"				76		401	
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		88.2	1.0000	.9258	1.0000	1010
2.							
3.							
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

$P_c = 2579.2$ $P_c^2 = 6,652,273$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		413.2	170,734	6,481,539
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0263$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,030$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0197$$

Absolute Open Flow	1,030	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By: Odell Farley	Calculated By: James Smith	Checked By:
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