

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 9-28-79	
Company Southland Royalty Company			Connection Gas Company of New Mexico			
Pool South Blanco			Formation Pictured Cliffs			
Completion Date 9-21-79		Total Depth 5896'		Plug Back TD 5826'		
Elevation 6918' GR		Farm or Lease Name Arizona Jicarilla "B"				
Csg. Size 7.000 4.500	Wt. 20# 10.50#	d 6.456 4.052	Set At 3851 3706-5894	Perforations: From 3526' To 3555		
Tbg. Size 1.900	Wt. 2.76#	d 1.610	Set At 3565	Perforations: From --- To ---		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At PBR 3719'		
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.	Temp. °F	
SI							975		975		
1.	2"		3/4"				185		579		3 hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	12.365		197.2	1.0000	.9258	1.0000	2257
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

$P_c = 987.2$ $P_c^2 = 974,564$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.5592$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4587$
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		591.2	349,517	625,047		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3292$$

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Absolute Open Flow	3292	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	1.85
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Remarks:

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