

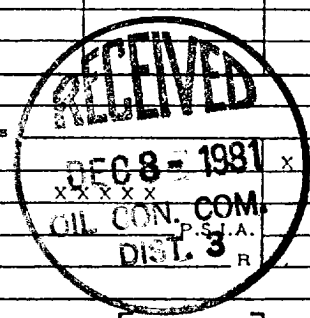
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-19-81			
Company Southland Royalty Company				Connection Gas Company of New Mexico					
Pool Tapacito				Formation Pictured Cliffs				Unit	
Completion Date 11-10-81		Total Depth 6050'		Plug Back TD 5957'		Elevation 7088' GL		Farm or Lease Name Arizona Jicarilla "A"	
Cg. Size 7.000 4.500		Wt. 20# 10.5#		d 6.456 4.052		Set At 3900' 3719-5997'		Perforations: From To	
Trq. Size 1.900		Wt. 2.76#		d 1.610		Set At 3562'		Perforations: From 3538' To 3556'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.						Packer Set At 4058'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		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							1000		1005		
1.	2"	X	3/4"				98		317		1 hr
2.							57		260		2 hrs
3.							48		265		3 hrs
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		60.2	1.0000	.9258	1.0000	689
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R



NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		277.2	76839.8	957856
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0802$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 736$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0678$

Absolute Open Flow	736	Mcf/d @ 15.025	Angle of Slope @	Slope, n	.85
--------------------	-----	----------------	------------------	----------	-----

Remarks: _____

Approved by Division	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By: L. O. Van Ryan
----------------------	--------------------------------	-------------------------------	-------------------------------