

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

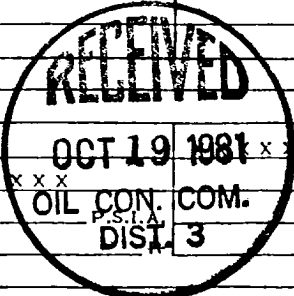
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-22-81	
Company Southland Royalty Company			Connection Northwest Pipeline Corporation		
Pool Undesignated			Formation Gallup		Unit
Completion Date 9-13-81		Total Depth 8718'		Plug Back TD 7955'	Elevation 6874' GL
Farm or Lease Name Chicosa Canyon					
Csq. Size 5.500	Wt. 15.5#	d 4.950	Set At 7955'	Perforations: From To	
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 7635'	Perforations: From 7532' To 7643'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G.G.				Packer Set At -----	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F	
				Baro. Press. - P _a 12.2	
L		H	G _g .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							1954		3150	
1.	2"	X	3/4"				126		827	1 hr
2.							120		554	2 hrs
3.							101		489	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		113.2	1.0000	.9258	1.0000	1296
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	
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R



P _c 3162.2	P _c 29999508.8	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0258$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0193$
NO.	P _t ²	P _w	P _w ²
1		501.2	251201.4
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1321$

Absolute Open Flow	1321	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:			

Approved By Division	Conducted By: Jim Choquette	Calculated By: James Smith	Checked By: L. O. Van Ryan
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