

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type of Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-10-79	
Company Southland Royalty Company				Connection Southern Union Gathering Company	
Pool Blanco				Formation Mesa Verde	
Completion Date 2-3-79		Total Depth 5253'		Plug Back TD 5209'	
Elevation 6171' GR		Farm or Lease Name Thompson			
Csg. Size 7.000 4.500	Wt. 20# 10.50#	d 6.456 4.052	Set At 2805' 2648-5252	Perforations: From 4906' To 5168'	
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 5147'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ---	
Producing Thru Tbg.		Reservoir 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							986		991	
1.	2"	X	3/4"				349		731	1 hr.
2.							311		659	2 hrs.
3.							286		614	3 hrs.
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		298.2	1.0000	.9258	1.0000	3,414
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 1003.2 P _c ² 1,006,410				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		626.2	392,126	614,284
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6383$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4,944$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4481$

Absolute Open Flow 4,944 Mcfd @ 15.025		Angle of Slope @ _____ Slope n .75
Remarks: _____		
Approved By Commission:	Conducted By: Jim Bacon	Calculated By: Odell Farley
		Checked By: _____



Southland Royalty Company

February 20, 1979

Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87401

Gentlemen:

The following is the deviation record for Southland Royalty Company's Thompson #2A, a Blanco Mesaverde well, located in section 28, T31N, R12W, San Juan County, New Mexico.

Dev. 1/4° at 237'
Dev. 1/2° at 815'
Dev. 3/4° at 1315'
Dev. 3/4° at 1814'
Dev. 1 ° at 2221'

Dev. 1/4° at 3284'
Dev. 3/4° at 3788'
Dev. 1/2° at 4428'
Dev. 3/4° at 4811'
Dev. 1 ° at 5233'

Yours truly,

L. O. Van Ryan
District Production Manager

LOVR/dg

SEAL

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

The foregoing instrument was acknowledged before me this 20 day of February, 1979, by L. O. Van Ryan of Southland Royalty Company, on behalf of said Company.

My Commission Expires: 11-20-82
NOTARY BOND FILED WITH SECRETARY OF STATE

DONNA F. GATTIS
NOTARY PUBLIC-NEW MEXICO