

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 12-26-81			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Flora Vista				Formation Fruitland				Unit	
Completion Date 12-13-81		Total Depth 5016'		Plug Back TD 4980'		Elevation 5964' GR		Farm or Lease Name Thompson	
Csg. Size 4" 500	Wt. 20#	d 6.456	Set At 2576'	Perforations: From To		Well No. 3-A			
Tbg. Size 1.900	Wt. 2.76#	d 1.610	Set At 2052'	Perforations: From 2070' To 2079'		Unit J		Sec. 34	Twp. 31N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.						Packer Set At 2511'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F P		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							639		639		
1.	2"	X	3/4"				49		199		1 hr
2.							49		216		2 hrs
3.							44		201		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		56.2	1.0000	.9258	1.0000	643
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 _____ 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	

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		213.2	45454.2	378607.2	1.1201	1.1012
2						
3						
4						
5						

Absolute Open Flow _____ 708 _____ Mcfd @ 15.025				Angle of Slope _____		Slope, n _____ .85	
Remarks: _____							
Approved by Division		Conducted By: Jim Bacon		Calculated By: James Smith		Checked By: L.O. Van Ryan	

