

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 10-23-81				
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Undesignated				Formation Fruitland				Unit	
Completion Date 8-18-81		Total Depth 2950'		Plug Back TD 2880'		Elevation 6300' GR		Farm or Lease Name Chamberlain	
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 2935'	Perforations: From To		Well No. 2			
Tqg. Size -----	Wt. -----	d -----	Set At -----	Perforations: From 2465' To 2596'		Unit Sec. Twp. Rge. A 14 32N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.					Packer Set At 2675'		County San Juan		
Producing Thru Casing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _c 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									994		
1.	2"	X	3/4"						84		1 hr
2.									80		2 hrs
3.									72		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		84.2	1.0000	.9258	1.0000	964
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/ubl.
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.
5.					Critical Temperature	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		84.2	7089.6	1005348.8	1.0071	1.0060
2						
3						
4						
5						

Absolute Open Flow 970 Mcfd @ 15.025				Angle of Slope @ Slope, n .85	
Remarks:					
Approved by Division		Conducted By: Dick Irvin		Checked By: L. O. Van Ryan	