

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 12-20-82	
Company Southland Royalty Company			Connection Southern Union Gathering		
Pool Blanco			Formation Pictured Cliffs		Unit
Completion Date 12-08-82		Total Depth 7170'	Plug Back TD 7118'	Elevation 5865' GR	Farm or Lease Name Calloway
Gas Size 7.000 4.500	Wt. 23# 10.5# 11.6#	d 46.366' 4.052' 4.000'	Set At 4638' 4516-7168'	Perforations: From To	
Trg. Size 1.900	Wt. 2.9#	d 1.610	Set At 2511'	Perforations: From 2501' To 2562'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. - Multiple				Packer Set At 4755'	County San Juan
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g 12.2	State New Mexico
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	2"	X	3/4"		
2.					
3.					
4.					
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1.	12.365		112.2	1.0000	.9258
2.					
3.					
4.					
5.					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio — Mcf/lb.
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
$P_c = 769.2$ $P_c^2 = 591668.6$					
NO.	P _i ²	P _w	P _r ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1840$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1350$
1.		303.2	91930.2	499738.4	
2.					
3.					
4.					
5.					
$AOF = Q \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1457$					
Absolute Open Flow			1457	Mcf @ 15.025	Angle of Slope θ — Slope, n — .85
Remarks:					
Approved By Division		Conducted By: Don Thompson		Calculated By: James Smith	
				Checked By: C.C. Parsons	