

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 7-7-83				
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Otero				Formation Chacra				Unit	
Completion Date 7-1-83		Total Depth 3000'		Plug Back TD 2974'		Elevation 5635' GL		Farm or Lease Name McClanahan	
Csq. Size 2.875	Wt. 6.4#	d 2.441	Set At 2982'	Perforations: From 2778' To 2898'		Well No. 22			
Thq. Size ---	Wt. ---	d ---	Set At ---	Perforations: From --- To ---		Unit Sec. Twp. Rye. G 14 28N 10W			
Type Well - Single - Bradenhead - G.G. or G.C. Multiple Single					Packer Set At ----		County San Juan		
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.		State New Mexico	
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.	Temp. °F	
SI									1059		
1.	2"	X	3/4"						220		1 hr
2.									167		2 hrs
3.									150		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		162.2	1.0000	.9258	1.0000	1857
2.							
3.							
4.							
5.							

NO.	P _f	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 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 _f ²	P _w	P _w ²	P _f ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0235$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0175$
1		162.2	26308.8	1121160	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1890$	
2						
3						
4						
5						

Absolute Open Flow 1890		Mcf/d @ 15.025		Angle of Slope @ _____		Slope, n .75	
Remarks: _____							
Approved By Division		Conducted By: Steve Kellenaers		Calculated By: James Smith		Checked By: R. E. Fielder	