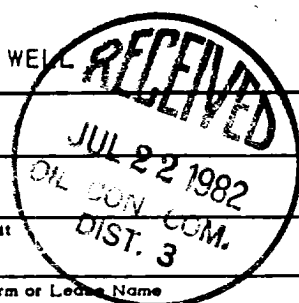


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-02-82	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Bloomfield				Formation Chacara		Unit
Completion Date 6-24-82		Total Depth 2950'		Plug Back TD 2939'		Elevation 5767' GL
Csg. Size 2.875		Wt. 6.5#		Set At 2950'		Well No. 3
Tbg. Size		Wt.		Set At		Unit Sec. Twp. Rge. B 23 28N 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At		County San Juan
Producing Thru Casing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g 12.2
L		H		Gg		Prover
				.700		Meter Run
				% CO ₂		% N ₂
				% H ₂ S		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											
1.	2"	X	3/4"								1 hr
2.											2 hrs
3.											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, Mcid
1	12.365		66.2	1.0000	.9258	1.0000	758
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 _____ 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

$P_c = 1079.2$ $P_c^2 = 1164672.6$				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		66.2	4382.4	1160290.2
2				
3				
4				
5				

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0038$

$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0028$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 760$

Absolute Open Flow	760	Mcld @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:			

Approved By Division	Conducted By: Tom Wagner	Calculated By: James Smith	Checked By: R. E. Fielder
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