

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-19-84	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Otero		Formation Chacra	
Completion Date 11-09-84	Total Depth 3306'	Plug Back TD 3295'	Elevation 5765' GL
Farm or Lease Name Hare		Well No. 24	
Csq. Size 2.875	Wt. 6.5#	d 2.441	Set At 3302'
Perforations: From 3239' To 3251'		Well No. 24	
Thq. Size ---	Wt. ---	d ---	Set At ---
Perforations: From To		Unit Sec. Twp. Rge. F 15 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At ----	
Producing Thru Casing		County San Juan	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
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.	
SI									1000	
1.	2" X 3/4"								33	1 hr
2.									23	2 hrs
3.									16	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		28.2	1.0000	.9258	1.0000	323
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1012.2	P _c ² 1024548.8	(1) $\frac{P_c^2}{P_r^2 - R_w^2} = 1.0008$	(2) $\left[\frac{P_c^2}{P_r^2 - R_w^2} \right]^n = 1.0007$
NO	P _r ²	P _w	P _w ²
1		28.2	795.2
2			
3			
4			
5			

Absolute Open Flow 323 Mcfd @ 15.025		Angle of Slope @	Slope, n .85
Remarks: Dry			
Approved By Division	Conducted By: Leroy Castleman	Calculated By: James W. Smith	Checked By: C. Terry Hobbs