

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-8-79	
Company Southland Royalty Company				Connection El Paso Natural Gas Company			
Pool Tapacitos				Formation Pictured Cliffs		Unit	
Completion Date 10-1-79		Total Depth 6586'		Plug Back TD 6504'		Elevation 7149' GR	
Farm or Lease Name Companero		Well No. 2		Perforations: From 4038' To 4123'		Set At 4356'	
Cg. 8.000 4.500		Wt. 20# 10.50#		d 6.456 4.052		Set At 4179-6547'	
Tbg. Size 1.900		Wt. 2.76#		d 1.610		Set At 4109'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 4317'		County Rio Arriba	
Producing Thru Tbg		Reservoir Temp. °F 9		Mean Annual Temp. °F 12.2		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							1140		1145	
1.	2"		3/4"				60		85	3 hrs
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		72.2	1.0000	.9258	1.0000	827
2.							
3.							
4.							
5.							

NO.	P _t	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		97.2	9,448	1,329,664
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0071$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 832$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0060$

Absolute Open Flow <u>832</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.85</u>
---	-------------------------------	---------------------

Remarks: _____

Approved By Commission:	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By:
-------------------------	--------------------------------	-------------------------------	-----------------