

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-17-82				
Company Southland Royalty Company				Connection El Paso Natural Gas Company					
Pool Basin				Formation Dakota				Unit	
Completion Date 5-30-82		Total Depth 6710'		Plug Back TD 6672'		Elevation 6260' GL		Farm or Lease Name Frontier "C"	
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 6708'	Perforations: From To		Well No. 1-E			
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 6638'	Perforations: From 6524' To 6648'		Unit Sec. Twp. Rye. K 16 27N 11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At ---		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		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							1019		1011		
1.	2"	X	3/4"				29		451		1 hr
2.							16		333		2 hrs
3.							10		291		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		22.2	1.0000	.9258	1.0000	254
2.							
3.							
4.							
5.							

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

P _c 1031.2 P _c ² 1063373.4					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0946$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0702$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		303.2	91930.2	971443.2				
2								
3								
4								
5								

Absolute Open Flow _____ 272 _____ Mcfd @ 15.025					Angle of Slope @ _____		Slope, n _____ .75 _____	
Remarks: _____								

Approved By Division	Conducted By: Richard Ramos	Calculated By: James Smith	Checked By: C. C. Parsons
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