

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-8-81	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 2-11-81		Total Depth 3260'		Plug Back TD 3231'		Elevation 6385'	
Farm or Lease Name HILL							
Csg. Size 2.875	Wt. 6.5#	d 2.441	Set At 3239'	Perforations: From 3076' To 3130'		Well No. #6	
Thq. Size	Wt.	d	Set At	Perforations: From To		Unit G	Sec. 4
						Twp. 29N	Rys. 8W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G				Packer Set At -----		County San Juan	
Producing Thru Csg.		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
State New Mexico							
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
Taps							
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Duration of Flow
SI							
1.	2" X 3/4"						1 Hour
2.							2 Hours
3.							3 Hours
4.							
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1	12.365		73.2	1.0000	.9258	1.0000	838
2.							
3.							
4.							
5.							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mct/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R		
1							
2.							
3.							
4.							
5.							
P _c 693.2 P _c ² 480526.2					(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.0113$ (2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0096$		
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1		73.2	5358.2	475168.0			
2							
3							
4							
5							
AOF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 846$							
Absolute Open Flow 846 Mcd @ 15.025					Angle of Slope @		Slope, n .85
Remarks: light mist							
Approved By Division _____ Conducted By: Don Thompson _____ Calculated By: James Smith _____ Checked By: L. O. Van Ryan _____							