

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-14-78	
Company Southland Royalty Company						Connection	
Pool Blanco						Formation Pictured Cliffs	
Completion Date 8-31-78		Total Depth 5845'		Plug Back TD 5844'		Elevation 6411' GR 6423' KB	
Crg. 600 4.500		Wt. 20.00# 10.50#		d. 6.456 4.052		Set At 3380' 3252-5845	
Perforations: From PC 3137 To 3183		Perforations: From To		Well No. 1-A		Farm or Lease Name Mark Maddox	
Tubg. Size 1.660		Wt. 2.40#		d. 1.380		Set At 3152' KB	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple						Packer Set At 3360'	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
L H		Cg .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.	
1.	2" X 3/4"						601		598	
2.							56		268	1 hour
3.							42		206	2 hours
4.							38		185	3 hours
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		50.2	1.0000	.9258	1.0000	575
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 613.2		P _c ² 376,014		(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.1154$		(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0972$	
NO.	P _e ²	P _w	P _w ²	P _e ² - P _w ²			
1.		197.2	38,888	337,126			
2.							
3.							
4.							
5.							

Absolute Open Flow 631		Mcf @ 15.025		Angle of Slope θ _____		Slope, n .85	
Remarks: _____							

Approved by Commission:	Conducted by: Bob Shindlecker	Calculated by: James Smith	Checked by: CC + asom
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