

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-5-80		FEB 14 1980	
Company Cotton Petroleum Corporation				Connection Transwestern		O. C. D.	
Pool Boyd <i>Morrow</i>				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 1-25-80		Total Depth 9300		Plug Back TD 9221		Elevation 3439 Gr 3451 KDB	
Csg. Size 4 1/2		Wt. 10.5 11.6		Set At 4.000 9300		Perforations: From 9062 To 9096	
Tbg. Size 2 3/8		Wt. 4.6		Set At 1.995 8933		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8902		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 174 @ 9050		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 8933		H 0.604		% CO ₂ N/A		% N ₂ N/A	
		G _g		% H ₂ S N/A		Prover X	
						Meter Run X	
						Taps Flange	
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	2" X 1.000			260	45	60	267.5 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	4.946	110.878	273.2	1.000	1.287	1.022	721.3
2.							
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1	Used simplified				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	supercompressibility tables				Specific Gravity Separator Gas 0.604 XXXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXX		
4					Critical Pressure 671 P.S.I.A. _____ P.S.I.A.		
5					Critical Temperature 358 R _____ R		
$P_c = 3125.2$ $P_w^2 = 9767$							
NO.	P _c ²	P _w ²	P _q ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.09766$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.09766$		
1	220	932.2	869	8898	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 791.744$		
2							
3							
4							
5							
Absolute Open Flow 791.744 Mcfd @ 15.025					Angle of Slope @ 45.00°		Slope, n 1.0000
Remarks: BHP measured with Amerada RPG-3 gauge No. 9383, 0-6000 PSI capacity							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	