

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-12-78		AUG - 3 1978	
Company PHOENIX RESOURCES CO.				Connection TO AIR			
Pool UNDESIGNATED <i>Morrow</i>				Formation MORROW		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 7-10-78		Total Depth 7,300'		Plug Back TD 7,246'		Elevation	
Casing Size 4 1/2"		WT. 11.6#		Set At 4,000'		Perforations: From 6,956' To 7,024'	
Tub. Size 2 3/8"		WT. 4.6#		Set At 1,995'		Perforations: From OPEN ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 6,895'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 158 @ 6,990'		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L		H		Gg		Meter Run 4" OWT	
				% CO ₂		% H ₂ S	
						Prover	
						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
1.	4" OWT X 0.75"			400.0			2100				24 HRS.
2.							400				2.5 HR
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.			413.2				3037
2.							
3.							
4.							
5.							

NO.	P _g	Temp. °R	T _g	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 _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.03974$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.03974$ $AOIF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.158$
1.	179.7		4294.9	
2.				
3.				
4.				

Absolute Open Flow <u>3,158</u> Mcfd @ 15.025		EST. Angle of Slope θ <u>45.0</u>	EST. Slope, n <u>1.00</u> LIMIT
Remarks:			

Approved By Commission:	Conducted By: B.B.	Calculated By: R.W.	Checked By: J.W.
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W.H. SLOPE (N) = 1.000 LIMITED (ESTIMATED)

$$W.H. POTENTIAL = 3037 \quad \frac{4465.6}{4294.5} \quad 1.000 = 3158 \text{ MCF/DAY}$$

