

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-12-78		AUG - 3 1978	
Company PHOENIX RESOURCES Co.				To AIR			
Well UNDESIGNATED <i>Messid</i>				MORROW		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 7-10-78		Total Depth 7,300'		Plug Back To 7,246'		Elevation	
Casing Size 4 1/2"		Wt. 11.6#		Set At 4.000"		Perforations: From 6,956' To 7,024'	
Casing Size 2 3/8"		Wt. 4.6#		Set At 1.995"		Perforations: From OPEN To 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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1			413.2				3037
2							
3							
4							
5							

NO.	P _t	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 2113.2 P _c ² 4465.6				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.03974$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.03974$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1	170.7			4294.9			
2							
3							
4							
5							

Absolute Open Flow 3,158 Mcfd @ 15.025				EST. Angle of Slope 45.0		EST. Slope, n 1.00 LIMIT	
Remarks: _____							
Approved By Commission:		Conducted By: B.B.		Calculated By: R.W.		Checked By: J.W.	

W.H. SLOPE (N) = 1.000 LIMITED (ESTIMATED)

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

