

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

c/sf file
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/7/82		MAY 10 1982	
Company FRED POOL Operating Co.				Connection Air		O.C.D.	
Pool Under Paces Shale				Formation Abo		ARTESIA OFFICE	
Completion Date 5/30/82 4-13-82		Total Depth 4152'		Plug Back TD 4100'		Elevation 4062 Gr	
Casing Size 4" 1/2		Wt. 10.5		Set At 4150 4/84		Perforations: From 3856 To 3942	
Tubing Size 2 3/8		Wt. 4.7		Set At 3800 3/84		Perforations: From To	
Type Well - Single - Bronthead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 4100		Mean Annual Temp. °F 60		State New Mexico	
L		H		Gg		Prover	
				.624		2"	

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	
SI							750				
1.	2	X	1.25		14	73	620	73			1 Hr
2.	2	X	1.25		20	72	475	72			"
3.	2	X	1.25		23	72	365	72			"
4.	2	X	1.25		27	70	200	70			"
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 O, Mhd
1	46.16			.9877	1.2654	1.0645	860
2	46.16			.9886	1.2654	1.0593	1223
3	46.16			.9886	1.2654	1.0498	1395
4	46.16			.9905	1.2654	1.0274	1605
5							

NO.	η	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Day
1	1.104	532	1.462	.882	A.P.I. Gravity of Liquid Hydrocarbons	
2	1.101	533	1.459	.891	Specific Gravity Separator Gas	XXXXXXXXXX
3	.860	533	1.459	.907	Specific Gravity Flowing Fluid	XXXXXX
4	.477	530	1.454	.947	Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	741.2	549	137	1.18	1.05
2	679.2	461	225		
3	577.2	333	358		
4	320.2	103	583		
5					

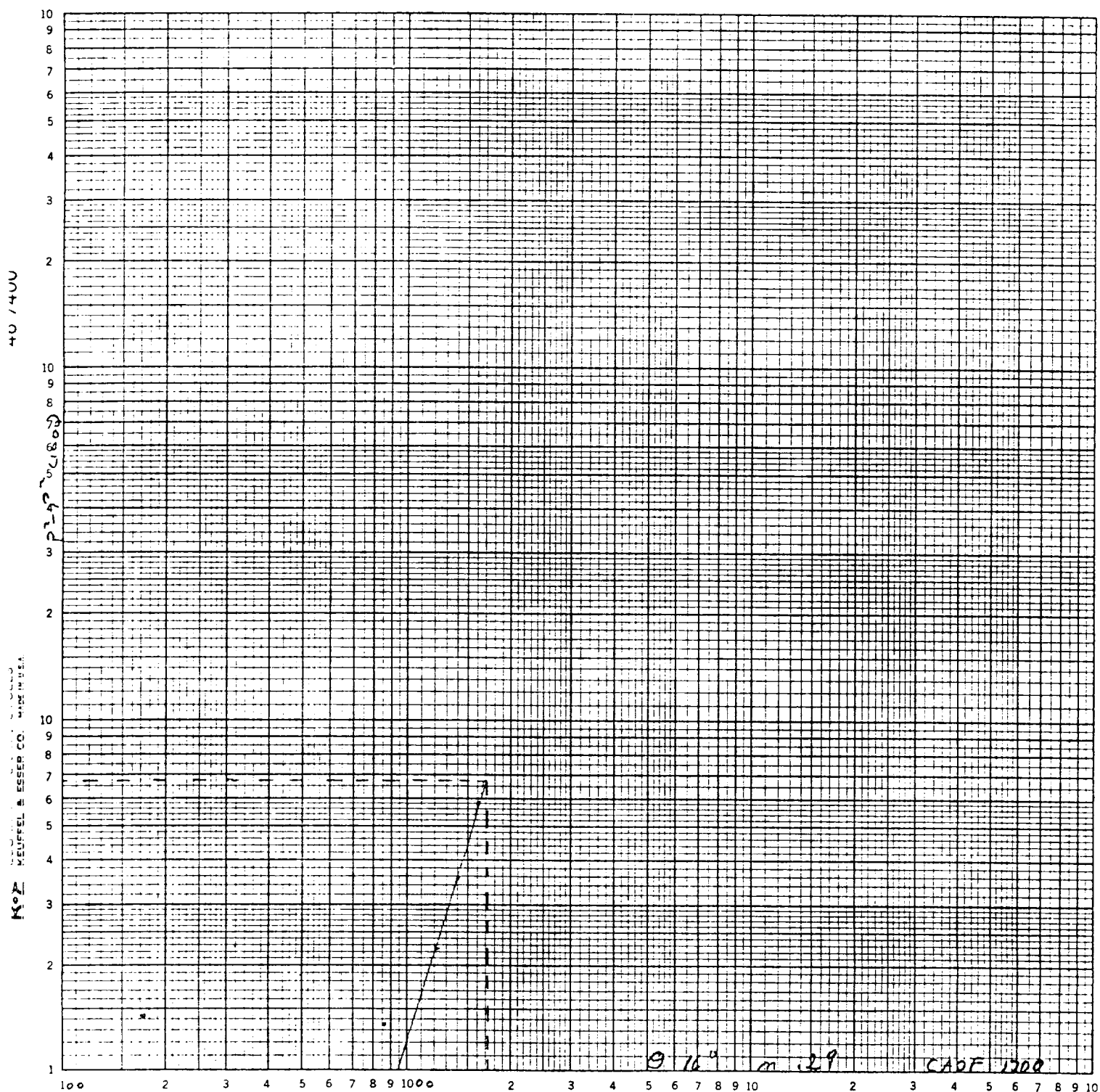
ACOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1682$

Absolute Open Flow: 1682 Mhd @ 15,025 Angle of Slope: 16 Slope, n: .29

Remarks: Bottom Hole Pressures Recorded w/ Amerada Tyre Gauge

Approved By: Commission	Conducted By: Walt + Co	Calculated By: M. Wally	Checked By:
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J. C. Nail #1



Q
MSCFPD