

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

Form C-122
 Revised 9-1-65

RECEIVED *C/57*

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/28/82		AUG 6 1982	
Company McCLELLAN OIL CORP ✓				Connection Air		O. C. D.	
Pool <i>El Estero Lake H.L.</i>				Formation Abo		CARTESIA, OFFICE	
Completion Date 6/23/82		Total Depth 4541		Plug Back TD 4500		Elevation 3694	
Csg. Size 4 1/2		Wt. 10.5		Set At 4541		Perforations: From 4046 To 4377	
Trq. Size 2 3/8		Wt. 4.7		Set At 3952		Perforations: From Open To Ended	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 97 @ 4100		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L		H		Gg		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover 2"	
						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.	
51							920	95	1000	
1.	2		5/16	92		84	850			1 hr
2.	2		5/16	182		76	725			"
3.	2		5/16	281		78	340			"
4.	2		7/16	151		94	160			"
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, M/d
1	39.77			.0429	1.270		199
2	39.77			.0432	1.270		397
3	39.77			.0431	1.270		611
4	81.09			.0425	1.270		661
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/boil.
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 _____ °F _____ °R

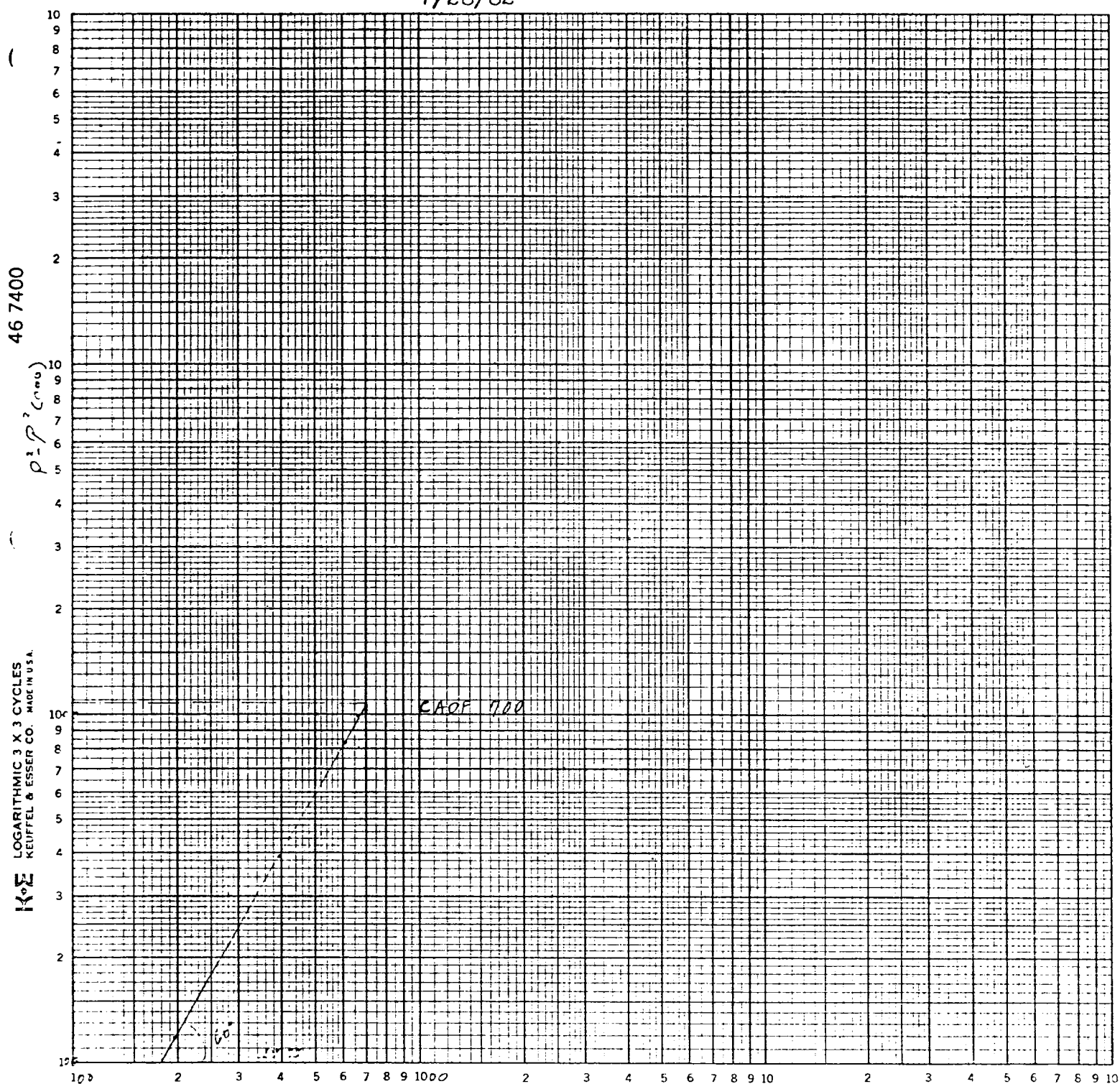
NO.	P _c ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.095$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.054$
1		978	957	118		
2		828	686	390		
3		488	238	837		
4		305	93	982		
5						

Absolute Open Flow _____ 700 _____ M/d @ 15.025				Angle of Slope @ _____ 60 _____		Slope, n _____ .58 _____	
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Remarks: Bottom hole pressures takes with Amerada type gauge.
 Tested through separator.

Approved by Commission:	Conducted by: Keltic Services	Calculated by: Kelly	Checked by: <i>[Signature]</i>
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Finch Fee #2



Q M SCFPD

