

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: 10/26/82		NOV 8 1982			
Company: McCLELLAN OIL CORP						Connection: Air		O. C. D.			
Pool: Penjack-Abo						Formation: Abo		Unit: ARTESIA, OFFICE			
Completion Date: 10/23/82			Total Depth: 4630		Plug Back TD: 4415		Elevation: 2724 Gr		Farm or Lease Name: PZ Fed.		
Csg. Size: 4 1/2	Wt.: 10.5	d: 1.995	Set At: 4450	Perforations: From 4158 To 4316		Well No.: 2					
Tub. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 4200	Perforations: From Open To Ended		Unit: B		Sec.: 7	Twp.: 9S	Page: 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: None		County: Chaves			
Producing Thru: Tubing		Reservoir Temp. °F: 99 @ 4200		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico			
L	H	Gg: .64	% 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.	Temp. °F	of Flow
1.	2	X	3/16	375		57	912		785		1 hr
2.	2	X	3/16	520		64	866		730		"
3.	2	X	1/4	430		62	775		655		"
4.	2	X	5/16	456		60	599		490		

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. Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.47		388.2	22.74	.8		308.81
2	14.47		533.2	22.89	.8		421.31
3	25.86		443.2	22.85	.8		627.05
4	39.44		469.2	22.80	.8		894.27

NO.	P _i	Temp. °F	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 _i 1060 P _e 1123				$(1) \frac{P_e^2}{P_e^2 - P_w^2} = 1.65$		$(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.33$	
NO.	P _i	P _w	P _e	P _e ² - P _w ²	AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1200$		
1		905	1012	111.56	<i>Post ID-2</i> <i>11-19-82</i> <i>Emp & BR</i>		
2		860	894	228.68			
3		769	739	384.00			
4		594	442	681.00			

Absolute Open Flow: 1200	Mold 15.025	Angle of Slope θ: 60	Slope, n: .58
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Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved by: _____	Conducted by: KELTIC SERVICES	Calculated by: Kelly	Checked by: _____
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McCLELLIAN OIL CORP

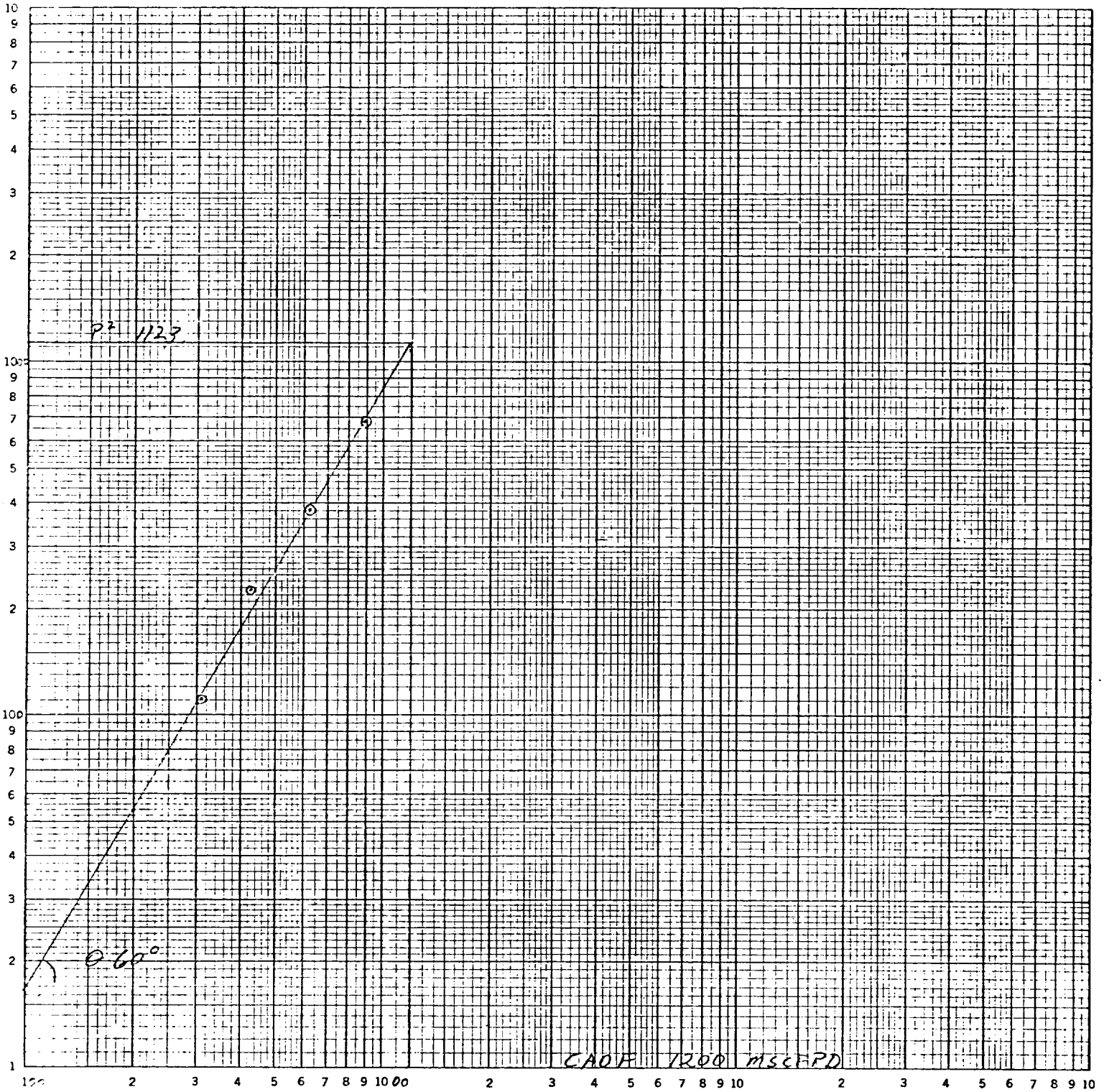
PZ #2

10/26/82

$P^2 - P^2_{(000)}$ 46/1400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

K₀E



Q
MSCFPD