

N.M.O.C.D. COPY

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Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-19-79		OCT 19 1979	
Company McCLELLAN OIL CORPORATION					Connection			
Pool WILSON					Formation ABO		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 9-10-79			Total Depth 4730		Plug Back TD 4687		Elevation 3690 GL	
Csg. Size 4 1/2			Wt. 10.5		Set At 4.482		Perforations: From 4436 To 4468	
Tbg. Size 2 3/8			Wt. 4.6		Set At .995		Perforations: From OPEN ENDED To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At NONE		County CHAVES	
Producing Thru TUBING			Reservoir Temp. °F 60°		Mean Annual Temp. °F 13.2		Baro. Press. - P _a NEW MEXICO	
L		H		G _g 674	% CO ₂ 3.55	% N ₂ 5.291	% 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.	
SI							968		980	
1.	2 x 1/4			443.2		70	330		470	
2.	2 x 5/16			160.2		72	147		285	
3.	2 x 3/8			93.2		72	80		220	
4.	2 x 1/2			98.2		74	35		180	
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.	1.807		443.2	.9905	1.218	1.035	602
2.	1.672		160.2	.9887	1.218	1.012	326
3.	2.378		93.2	.9887	1.218	NIL	267
4.	4.279		48.2	.9868	1.218	NIL	248
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	.66	530	1.50	.934	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.	.23	532	1.51	.976	Specific Gravity Separator Gas _____	
3.	.14	532	1.51	NIL	Specific Gravity Flowing Fluid _____	
4.	.07	534	1.51	NIL	Critical Pressure _____ 673 P.S.I.A.	
5.					Critical Temperature _____ 353 R	

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²
1		483.2	233.5	752.9
2		298.2	88.9	897.5
3		233.2	54.4	932.0
4		193.2	37.3	949.1
5				

$$(1) \frac{P_e^2}{P_e^2 - P_w^2} = 1.039$$

$$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 253$$

$$(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.019$$

Absolute Open Flow	253	Mcf @ 15.025	Angle of Slope θ	63.5	Slope, n	500
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Remarks: A SLOPE OF 63.5 WAS DRAWN THROUGH LOW RATE OF FLOW OF THE ESTABLISHED LINE.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	R.R.	J.W.