

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

SR. file
Form C-122
Revised 9-1-85

MAY 14 1982

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-28-82		O.C.D.	
Company McCLELLAN OIL CORP				Connection Air		ARTESIA, OFFICE	
Pool Undesignated				Formation Abo		Unit	
Completion Date 4-25-82		Total Depth 4630'		Plug Back TD 4565'		Elevation 3768' Gr	
Casing Size 4 1/2		ID 10.5		Set At 4601'		Perforations: From 4244 To 4274	
Tubing Size 2 3/8		ID 4.7		Set At 4201		Perforations: From To	
Type Well - Single - Provenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 4200		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		G _g .622		% 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. In. W	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2	X	1.25		8		877	69			1 hr
2.	2	X	1.25		22		803	73			
3.	2	X	1.25		34		686	75			
4.	2	X	1.25		42		521	74			
5.							354	81			

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 _{sp}	Rate of Flow Q, Mcfd
1.	475			.988	.982	1.006	492
2.	838			.986	.982	1.058	858
3.	1093			.987	.982	1.044	1106
4.	1250			.980	.982	1.028	1237
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.31	540	1.48	.869						
2.	1.19	540	1.48	.880						
3.	.93	540	1.48	.905						
4.	.60	540	1.48	.939						
5.										

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1.		938.84	881	33	1.30	1.132
2.		831.15	691	223		
3.		672.17	452	462		
4.		459.20	211	703		
5.						

Absolute Open Flow 1400 Mcfd @ 15.025 Angle of Slope 26 Slope, n .488

Remarks: Bottom hole pressures recorded with an Amerada Type gauge

Approved By: Commissioner	Conducted By: KELTIC SERVICES	Calculated By: M. Kelly	Checked By:
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