

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Rev. 10-65

RECEIVED

SF

F✓

C-121 File

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		6-3-80		AUG 23 1980	
Company		McCLELLAN OIL CORPORATION		TO AIR		O. C. D.		ARTESIA, OFFICE					
Field		ABO											
Date		6-3-80		Total Depth		4700		Plug Back TD		4685		Elevation	
3712 ft.												P. J. FEDERAL	
Dip. Size		4 1/2		Wt.		11.60		d		4.000		Set At	
4700												Perforations:	
2 3/8		4.60		2.375		4306		From		4334		To	
4514												Well No.	
1												Unit	
J		6		9S		26E		From		OPEN		To	
END												Sec.	
County		CHAVES										Twp.	
State		NEW MEXICO										Rge.	
26E													
Type Well - Single - Broadhead - G.C. or G.O. Multiple		SINGLE		Packer Set At		4306		County		CHAVES			
Producing Thru		TUBING		Reservoir Temp. °F		118° 4400		Mean Annual Temp. °F		60		Baro. Press. - P _a	
13.2												State	
NEW MEXICO													
L		4400		H		4400		Gg		.645		% CO ₂	
NIL												% N ₂	
5.378												% H ₂ S	
2"												Prover	
Meter Run												Taps	
FLOW DATA													
TUBING DATA													
CASING DATA													
Duration													
of Flow													
NO.		Prover		X		Orifice		Press.		Diff.		Temp.	
		Line				Size		p.s.i.g.		hw		°F	
		Size											
SI													
1.		2 X 1/4				721		78		721		84	
2.		2 X 5/16				548		78		548			
3.		2 X 3/8				427		75		427			
4.		2 X 7/16				330		75		330			
5.													
RATE OF FLOW CALCULATIONS													
Coefficient		$\sqrt{h_w P_m}$		Pressure		Flow Temp.		Gravity		Super		Rate of Flow	
(24 Hour)				P _m		Factor		Factor		Compress.		Q, Mhd	
				F _m		F _t		F _g		Factor, F _{pv}			
1.		1.087		734.2		.9831		1.245		1.059		1034	
2.		1.672		561.2		.9831		1.245		1.045		1200	
3.		2.378		440.2		.9859		1.245		1.036		1331	
4.		3.408		343.2		.9859		1.245		1.028		1476	
5.													
NO.		P _r		Temp. °R		T _r		Z		Gas-Liquid Hydrocarbon Ratio		Mhd	
1.		1.11		538		1.50		.992		A.P.H. Gravity of Liquid Hydrocarbons		Dep.	
2.		.85		538		1.50		.916		Specific Gravity Separator Gas		X X X X X X X X	
3.		.67		535		1.49		.931		Specific Gravity Flowing Fluid		X X X X X	
4.		.2		535		1.49		.946		Critical Pressure		661 P.S.I.A.	
5.										Critical Temperature		358 °R	
F _c		999.2		F _c ²		998.4							
NO.		F _c ²		P _w		F _w ²		F _c ² - F _w ²		(1) $\frac{F_c^2}{F_c^2 - F_w^2} = 4.027$		(2) $\left[\frac{F_c^2}{F_c^2 - F_w^2} \right]^n = 2.007$	
1.		866.3		750.5		247.9							
2.		784.1		614.8		383.6							
3.		675.9		456.8		541.6							
4.		508.4		258.5		739.9							
5.													
Absolute Open Flow		2,075		Mhd @ 15.025		Angle of Slope °		63.5		Slope, n		500	
Remarks:													
Approved By Commission:		Conducted By:		Calculated By:		Checked By:							
M.B.		R.R.		J.W.W.									