

MULTIPOINT AND ONE POINT BACK PRESSURE TEST

FOR GAS WELL
APR 12 1984

RECEIVED BY

O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date	
Company McClellan Oil Corp. ✓		Connection Air	
Pool Pecan & Lopez Abo		Formation ABO	
Completion Date 3-27-84		Total Depth 4200	
Plug Back TD 4080		Elevation 3783	
Form or Lease Name McClellan MOC FED		Well No. #4	
Csq. Size 4 1/2	Wt. 10.5	d 4.0000	Set At 4080
Thq. Size 2-3/8	Wt. 4.7	d 1.995	Set At 3745
Perforations: From 3799 To 3867		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 60	
Mean Annual Temp. °F 13.2		Baro. Press. - P _a New Mexico	
L	H	G _a .656	% CO ₂ .047
% N ₂ 6.824	% H ₂ S	Prover	Meter Run 3"
Taps Pipe			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							960				
1.	3		1.25	200	8	24	940		945		1 Hr.
2.	3		1.25	200	30	32	895		935		1 Hr.
3.	3		1.375	200	85	35	835		900		1 Hr.
4.	3		1.5	200	83	37	775		870		1 Hr.
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mc/d
1	8.403	41.299	213.2	1.0312	1.2347	1.0260	453
2	8.403	79.975	213.2	1.0281	1.2347	1.0255	874
3	10.490	135.618	213.2	1.0250	1.2347	1.0250	1832
4	12.940	133.025	213.2	1.0229	1.2347	1.0246	2227
5.							

NO.	P _r	Temp. °R	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 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_c 1050 P_c² 1102

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		1038	1077	25
2		1010	1020	82
3		957	916	187
4		914	835	267
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.13$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.01$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8960$

Post ID-2
4-26-84
Comp BK

Absolute Open Flow 8960 Mc/d @ 15.025 Angle of Slope 44.45 Slope, n .98

Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By:	Checked By:
----------------------	----------------------------------	----------------	-------------