

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS, C. D.

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/30/84	
Company McCLELLAN OIL CORP		Connection Air	
Pool <i>Wood</i>		Formation Abo	
Completion Date 8-9-84		Total Depth 6555	Plug Back TD 4149' G.L.
Elevation 4149' G.L.		Farm or Lease Name VAN EATON LEYENDECKER	
Csq. Size 4 1/2	WI. 10.5	Set At 6555	Perforations: From 5400 To 5400
Thq. Size 2 3/8	WI. 4990	Set At 4990	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		County Chaves	
Reservoir Temp. °F 60		State New Mexico	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L	H	G _g .76	% CO ₂ 1.67 % N ₂ 10.138 % H ₂ S
Prover		Meter Run 3	
Taps			

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							20		960		
1.	3		1.25	200	13	40	435		540		1 hr
2.	3		1.25	200	25	44	338		540		1 1/2
3.	3		1.25	200	29	44	240		450		1 1/2
4.	3		1.375	200	30	44	215		429		1 1/2
5.											

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 _{pv}	Rate of Flow Q, Mcfd
1	8.403	52.646	213.2	1.0198	1.1471	1.0324	534
2	8.403	73.007	213.2	1.0198	1.1471	1.0324	741
3	8.403	78.631	213.2	1.0198	1.1471	1.0324	794
4	10.490	79.975	213.2	1.0157	1.1471	1.0316	1008
5							

NO.	R _t	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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1221.2 P _c ² 1491				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		879.2	773	718
2		659.2	435	1054
3		547.2	299	1192
4		517.2	268	1224
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.22$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.45$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1500$

Post ID-2
10-5-84
Comp + BK

Absolute Open Flow 1500 Mcfd @ 15.025		Angle of Slope @ 28	Slope, n 1.88
Remarks: Frac fluid was produced during the test. Bottom hole pressures recorded with Amerada type gauge.			
Approved By Division	Conducted By: KELTIC SERVICES	Calculated By:	Checked By: