

JUL 20 1984

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		Test Date 7-9-84		O. C. D. ARTESIA OFFICE	
Company MCKAY OIL COMPANY		Connection TO AIR		660 FNL	
Pool		Formation ABO		Unit C	
Completion Date 7-2-84		Total Depth 4800.		Plug Back 4604.	
Elevation 3776.		Farm or Lease Name MCKAY WINSTON		Well No. #1	
Prod. Size 4.500	Int. 10.5	d 4.052	Set At 4604.	Perforations: From 4268. To 4470.	
Trp. Size 2.375	Int. 4.7	d 1.995	Set At 4250.	Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 0	
Producing Tubing TUBING		Reservoir Temp. °F 115.° 4369.		Mean Annual Temp. °F 60.0	
L 4369.		H 4369.		Cg 0.639	
% CO ₂ 0.02		% N ₂ 4.72		% H ₂ S 0.	
Prover 2.0		Motor Run 0.		Taps FLANGE	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Pres. p.s.i.g.	Diff. in. H ₂ O
1.	2.00 X 0.063		850.	0.	90.
2.	2.00 X 0.094		827.	0.	92.
3.	2.00 X 0.125		788.	0.	92.
4.	2.00 X 0.188		700.	0.	90.
TUBING DATA					
NO.	Prover Line Size	X	Orifice Size	Pres. p.s.i.g.	Temp. °F
1.	2.00 X 0.063		850.	0.	90.
2.	2.00 X 0.094		827.	0.	92.
3.	2.00 X 0.125		788.	0.	92.
4.	2.00 X 0.188		700.	0.	90.
B.H.P. DATA					
NO.	Prover Line Size	X	Orifice Size	Pres. p.s.i.g.	Temp. °F
1.	2.00 X 0.063		850.	0.	90.
2.	2.00 X 0.094		827.	0.	92.
3.	2.00 X 0.125		788.	0.	92.
4.	2.00 X 0.188		700.	0.	90.
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
1.	0.06	0.	863.2	0.9723	1.2510
2.	0.14	0.	840.2	0.9706	1.2510
3.	0.26	0.	801.2	0.9706	1.2510
4.	0.61	0.	713.2	0.9723	1.2510
5.					
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio
1.	1.30	550.	1.54	0.886	0.
2.	1.27	552.	1.54	0.890	0.
3.	1.21	552.	1.54	0.895	0.639
4.	1.08	550.	1.54	0.904	0.639
5.					
Specific Gravity Separator Gas					
Specific Gravity Flowing Fluid					
Critical Pressure					
Critical Temperature					
P.G.I.A.					
H					
A					
P ₁ 877.6 P ₂ 770.					
NO.	P ₁ ²	P ₂ ²	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 2.4160$
1.	749.	858.	737.	33.	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 2.1981$
2.	706.	834.	695.	75.	
3.	642.	796.	633.	137.	
4.	453.	672.	451.	319.	
5.					
Absolute Open Flow 1217. Mscf @ 15.025					
Angle of Slope 48.2					
Slope, n 0.893					
Remarks					
Approved by Commission					
Conducted By					
Calculated By					
Checked By					

RICHARD TOWNLEY

BENNETT & CATHEY