

DEC 17 1984

4155
File

Type of Well ☒ O.C.D. ☐ ARTESIAN		☐ Annual ☐ Special		Test Date 11-27-84	
Company MCKAY OIL COMPANY		Connection TO AIR			
Pool S. Pecos Slope Abo		Formation ABO		Unit	
Completion Date 11-8-84 11-27-84		Total Depth 4309.		Plug Hole 4163. Elevation 3570.	
Casing Size 4.500 Wt. 10.5		Set At 4220.		Perforations: From 3892. To 3909.	
Tubing Size 2.375 Wt. 4.7		Set At 3883.		Perforations: From 0. To 0.	
Type Well - Single - Bordenhead - G.G. or G.O. Multiple SINGLE				Packer Set At	
Producing thru TUBING		Reservoir Temp. °F 104. • 3900.		Mean Annual Temp. °F 60.0	
		Baro. Press. - P _a 13.2		Gale NEW MEXICO	
L 390.		H 3900.		Cg 0.645	
		% CO ₂ 0.01		% N ₂ 5.49	
		% H ₂ O 0.		Prover 2.0	
		Motor Run 0.		Taps FLANGE	

FLOW DATA					TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F		Pross. p.s.i.g.
51						40	1008.		1117.	
1.	2.00 X 0.125			975.	0.	41.	975.		1083.	32/64
2.	2.00 X 0.188			920.	0.	42.	920.		1022.	32/64
3.	2.00 X 0.250			827.	0.	41.	827.		923.	32/64
4.	2.00 X 0.313			710.	0.	40.	710.		808.	32/64
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	0.26	0.	988.2	1.0188	1.2451	1.1057	366.
2	0.61	0.	933.2	1.0178	1.2451	1.0984	788.
3	1.08	0.	840.2	1.0188	1.2451	1.0886	1258.
4	1.67	0.	723.2	1.0198	1.2451	1.0763	1648.
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	1.50	501.	1.40	0.818	0.	0.	0.645	XXXXXX	661.	358.
2	1.41	502.	1.40	0.829						
3	1.27	501.	1.40	0.844						
4	1.09	500.	1.40	0.863						
5										

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	1202.	991.	981.	61.
2	1072.	936.	876.	166.
3	876.	848.	719.	323.
4	674.	745.	555.	487.
5				

(1) $\frac{P_r^2}{P_w^2 - P_w^2} = 2.1381$

LOG = 0 $\left[\frac{P_r^2}{P_w^2 - P_w^2} \right]^n = 2847.$

(2) $\left[\frac{P_r^2}{P_w^2 - P_w^2} \right]^n = 1.7275$

Post ID-2
11-28-84
Camp & BK

Absolute Open Flow 2847.	Mcf/d @ 15.025	Angle of Slope 54.3	Slope, n -0.719
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Remarks BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission	Conducted By RICHARD TOWNLEY	Calculated By BENNETT & CATHEY INC.	Checked By
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