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O.C.D.

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-2-83	
Company The Superior Oil Co.		Connection Pipeline	
Pool Undesignated <i>W/C Atoka</i>		Formation Morrow <i>Atoka</i>	
Completion Date 7-8-82		Total Depth 14028	Plug back TD 13380
Casing Size 5"		Well No. 1	Perforations: From 12,716 To 12,726
Trq. Size 2 7/8		Well No. 1	Perforations: From open To end
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 11,200	County Eddy
Producing thru tubing		Reservoir Temp. °F 186 @ 11,200	Mean Annual Temp. °F 60
Buro. Press. - P ₀ 13.2		State New Mexico	
L 11,200	H 11,200	G _g .609	% CO ₂ .458
% H ₂ .822	% H ₂ S	Prover	Meter Run 3
Turn FIG			

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							7400				
1.	3	X	2.0	930	25	93	6425				2 hrs.
2.	3	X	2.0	850	14	90	6800				2 hrs.
3.	3	X	2.0	790	8	90	6900				2 hrs.
4.	3	X	2.0	780	4	90	7025				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 F _g	Super. Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	21.32	153.56	943.2	.9697	1.281	1.067	4339
2	21.32	109.93	863.2	.9723	1.281	1.068	3118
3	21.32	80.16	803.2	.9723	1.281	1.058	2252
4	21.32	56.33	793.2	.9723	1.281	1.056	1580
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/Std.
					174.633	
					A.P.I. Gravity of Liquid Hydrocarbons 55 @ 60°	Deg.
1.	1.41	553	1.54	.878	Specific Gravity Separator Gas .609	X X X X X X X X
2.	1.29	550	1.54	.877	Specific Gravity Flowing Fluid X X X X X	G-171X .627
3.	1.20	550	1.54	.894	Critical Pressure 671	P.S.I.A. 671
4.	1.18	550	1.54	.896	Critical Temperature 358	R 365 H
5.						

NO.	P _t ²	P _w	P _t ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 4.170$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 4.170$
1	6463.6	41778.1	13177.4			
2	6826.8	46605.2	8350.3			
3	6920.4	47891.9	7063.6			
4	7041.2	49578.5	5377.0			
5						

Absolute Open Flow	18,096	Mcf @ 15.025	Angle of Slope	45	Slope, n	1.00
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Remarks: Well made 5.01 BBLs of Condensate during test

Approved By	Conducted By	Calculated By	Checked By
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Post ID-2
11-18-83
Comp & BK