

c/SF
File

FEB 3 1933

Type Test ☒ Initial ☐ Annual		FOUR POINT ☐ Annual ☐ Special		Test Date 4-27-82		2310 SNL	
Company READ & STEVENS, INC. ✓		Connection O.C.D. ARTESIA OFFICE		1947 FWL			
Well No. N. Lavinia Morrow		Formation MORROW		Unit F			
Completion Date 4-23-82		Total Depth 12,710 12,620		Plug Back TD 12,180		Elevation 3,102.3 KB	
Casing Size 5.0		Casing Weight 23.2		Casing Set At 4.044 12,180		Perforations: From 12,160 To 12,178	
Casing Set At 2,875		Casing Weight 6.5		Casing Set At 2.441 8.900		Perforations: From OPEN To ENDED	
Casing Weight 2.375		Casing Weight 4.7		Casing Set At 1.995 12,100		Well No. 1	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8,900		County EDDY	
Producing thru TUBING		Reservoir Temp. °F 260 • 12,090		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 12,169		H 12,169		G _g .575		% CO ₂ 1.32	
				% N ₂ 0.22		% H ₂ S	
				Prover		Meter Run 4.028	
						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	Press. p.s.i.g.	CHOKE	
1	4	X	1.5	300	8.0	82	4324	70	5458		72 HRS.
2	4	X	1.5	305	29.0	82	4085	67	5360	3/64	1-1/2
3	4	X	1.5	318	55.7	74	4010	52	5184	8/64	1
4	4	X	1.5	450	76.5	75	3912	63	5077	11/64	1
5	4	X	2.0	570	29.5	82	3743	63	4878	13/64	1
							3362	62	4457	15/64	1

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, Mcld
1	11.1200	50.06	313.2	.9775	1.3188	1.0206	734
2	11.1200	96.06	318.2	.9795	1.3188	1.0212	1409
3	11.1200	135.82	331.2	.9868	1.3188	1.0228	2010
4	11.1200	188.24	463.2	.9859	1.3188	1.0320	2809
5	20.3200	131.17	583.2	.9795	1.3188	1.0381	3574

NO	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	.46	542	1.57	.960			.5750		678	345
2	.47	542	1.57	.959						
3	.49	534	1.55	.956						
4	.68	535	1.55	.939						
5	.86	542	1.57	.928						

NO	P _w	P _w ²	P _c ² - P _w ²
1	4107.4	16870.8	1940.0
2	4054.0	16434.0	2376.0
3	3945.0	15563.3	3248.0
4	3783.0	14311.5	4500.0
5	3416.1	11669.6	7142.0

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.1803$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.1803$

AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,724.4$

4,337.2 P_c² - 18811.3

Absolute Open Flow	11,724.4	Mcld @ 15.025	Angle of Slope @	45.0	Slope, n	1.000
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT-CATHEY	Checked By:
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