

Form C-122

C/SF.
F.le

AUG 25 1983

O. C. D.

Unit ARTESIA, OFFICE

RATE OF FLOW CALCULATIONS

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NO	Coefficient (24 HOURS)	$\sqrt{h/P_m}$	Pressure P _m	Flow Temp Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.	3.729	59.64	218.20	.991	1.246	1.016	279
2.	3.729	72.45	293.20	.991	1.246	1.023	341
3.	3.729	85.81	333.20	.991	1.246	1.026	405
4.	3.729	95.56	338.20	.991	1.246	1.026	451
5.	0.300	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	.33	530	1.49	.968	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.44	530	1.49	.956	Specific Gravity Separator Gas	.644	xxxxxxxxxxxxxxx
3.	.50	530	1.49	.950	Specific Gravity Flowing Fluid	xxxxxx	.644
4.	.51	530	1.49	.949	Critical Pressure	661.7 PSIA	661.7 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	355.7°R	355.7°R

Pc	840.2	Pc ²	705.9
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NO	Pt ²	P _w	P _w ²	P _c ² -P _w ² (1)	$\frac{P_c^2}{P_c^2-P_w^2} = \frac{2.0852}{(2)} \left[\frac{P_c^2}{P_c^2-P_w^2} \right]^n = \frac{1.7128}{}$
1.	528.8	727.9	529.8	176.1	
2.	475.0	690.3	476.5	229.4	
3.	430.6	657.9	432.8	273.2	
4.	363.9	605.5	366.6	339.4	
5.	0.0	0.0	0.0	0.0	

ROF = Q $\left[\frac{P_c^2}{P_c^2-P_w^2} \right]^n = \underline{773 \text{ Mcfd}}$

Absolute Open Flow	773 Mcfd @ 15.025	Angle of Slope, θ	36	Slope, μ	.732
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Remarks:

Approved By:

Conducted By:
David Weaver

Calculated By: Andie Carpenter

Checked By:
