

WORK SHEET FOR CALCULATING EQUIVALENT STATIC WELLHEAD PRESSURE

LEASE COOK "A" WELL NO. 1-9 FIELD FLANK NW(TOPEKA) COUNTY BACA DATE 4-16-73
 % CO₂ .07 G_m .785 P_{cr} 623 T_{cr} 349 FLOW STRING _____
 % N₂ 24.83 H 3174 G_{mH} 2.492 L/H 1.000 I.D. 2.441-1.380

RATE

LINE	TRIAL										
1	Q _m , M ² cfd	1.022									
2	T _w	520									
3	T _s	560									
	T _e	540									
	Z _e	.979									
	T _e Z _e	528.7									
	G _m H/T _e Z _e	4.713									
	e ^s	1.193									
	(1 - e ^{-s})	.162									
	P _t or P _c	130.4									
10	P _t ² or P _c ² (thous.)	17.0									
11	F _c	21.77									
12	F ₁ = F _c T _e Z _e / 540	21.19									
13	F ₁ Q _m	462									
14	Y = (F ₁ Q _m) ² L/H	.216									
15	R ² = Y (1 - e ^{-s})	.035									
16	P _w ² = P _t ² + R ²	17.0									
17	P _s ² = e ^s P _w ² (thous.)	20.3									
17a	or P _t ² = e ^s P _c ² (thous.)										
18	P _s or P _f	142.6									
19	P _e	136.5									
20	P _r	.22									
21	T _r	1.55									
22	Z _e	.979									



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