

WORKSHEET FOR CALCULATION OF ST. C COLUMN WELLHEAD PRESSURE (P_w)COMPANY Wade Oil Corp. LEASE Federal "PP" WELL NO. #1 DATE 10-6-73LOCATION: Unit F Section 24 Township 23-S Range 26-EL 11540' H 11553' LH 979 C 596 % CO₂ 1.13 % N₂ 0.19 % H₂S ---d 1.995 F₁ 0.18231 GH 6655 Pci 676 Tci 349

LINE	FIRST RATE	SECOND RATE	THIRD RATE	FOURTH RATE	FIFTH RATE
1 Q _m	1.564	2.623	4.384	5.374	5.374
2 T _w (W.H. °R)	535	535	535	535	535
3 T _s (B.H. °R)	690	690	690	690	690
4 T = $(\frac{T_w + T_s}{2})$	587.5	587.5	587.5	587.5	587.5
5 Z (Est.)	.923	.858	.870	.861	.862
6 TZ	530.5	504.1	511.165	502.34	506.43
7 G ₁ TZ	12.544	13.202	13.187	13.249	13.141
8 e ^s (Table XIV)	1.600	1.600	1.6397	1.6378	1.6369
9 1 - e ^s (Table XIV)	.375	.390	.386	.389	.384
10 P ₁	3850.1	3708.2	3650.2	3547.2	3547.2
11 P ₁ 2/1000	14.834	14.834	14.834	12.583	12.583
12 F ₁ (Table XV)	.018231	.018231	.018231	.018231	.018231
13 F ₂ = F ₁ T ₂	9.672	9.672	9.672	9.158	9.233
14 F ₃ 2 _m	45.136	45.136	45.136	44.619	44.619
15 L/H (F ₂ Q _m) ²	288.58	266.39	281.9	249.5	245.4
16 F _w = L/H (F ₂ Q _m) ² (1 - e ⁻⁹)	58.776	54.11	58.776	54.118	53.669
17 P _w = P ₁ + F _w	3908.7	3762.5	3838.9	3601.2	3593.6
18 P _s = e ^s P _w ²	23855.5	24423.4	23402.6	22149.9	22143.2
19 P _s	154.4	152.8	154.6	148.8	148.9
20 P = $(\frac{P_1 + P_s}{2})$	3002	3003.3	3001.4	2900.7	2900.8
21 P ₁ = (P/P _{ci})	2.96	3.01	3.03	3.81	3.73
22 T ₁ = (T/T _{ci})	1.68	1.68	1.68	1.68	1.68
23 Z (Table XI)	1.858	1.859	1.861	1.862	1.862

One copy to be filed in District Office (Check only unacceptable)