

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adapted 9-1-65

COMPANY WPC LEASE Waller Field WELL NO. 1 DATE 2-15-77

LOCATION: Unit P Section 27 Township 17S Range 25E

6590 H 6590 LH 1.000 G 0.6775 % CO₂ 0.72 % N₂ 0.96 % H₂S 11.1
-6507 (348)-25898 d 2.0326 F 0.016912 GH 4464.7
-83 (16.0)-1328 272.26 669.3 384 671.5 380
2.4 6.7 3 671.5 380 P_{ci} 671.5 T_{ci} 380
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	1	2	3	4
1 Q _m	S1	.223	.305	.416	.583	S1	.223	.305
2 T _u (W.H. °R)	526	527	527	528				
3 L _s (B.H. °R)	582	580	578	577	576			
4 T = (L _w T ₁ S)	554	553.5	552.5	552	552	554	553.5	552.5
5 Z (Est.)	.745	.750	.752	.752	.758	.747	.751	.7495
6 T ₂	412.73	415.125	415.48	415.104	418.416	413.853	415.679	414.099
7 GH/T ₂	10.817	10.755	10.746	10.756	10.670	10.789	10.7407	10.7817
8 e ^s (Table XIV)	1.500	1.41967	1.4967	1.492	1.492	1.4986	1.4959	1.4982
9 1-e ^s (Table XIV)		0.3319	0.3316	0.3319	0.330		0.3315	0.3325
10 P ₁	1878.2	1789.2	1790.2	1713.2	1617.2	1878.2	1789.2	1770.2
11 P ₂ 2/1000	3522.6	3201.24	3133.603	2935.05	2615.34	3522.6	3201.24	3133.603
12 F ₁ (Table XIV) S ₁ 0.0354		.40332	.40297		.400143	.40457	.40278	.40431
13 F ₁ = F ₁ T ₂		7.0706	7.0266	7.0202	7.0763		7.030	7.0032
14 F ₁ Q _m		1.5656	2.143	2.4204	4.1255		1.5677	2.136
15 L/H (F ₁ Q _m) ²		2.45	4.593	8.529	17.019		2.4576	4.562
16 F _w = L/H (F ₁ Q _m) ² (1-e ^s)		0.81	1.523	2.831	5.62		0.815	1.52
17 P _w = P ₁ + F _w		3202.05	3135.13	2937.88	2622.96		3202.05	3135.12
18 P _s = e ^s P _w ²	5291.45	4792.51	4683.5	4397.12	3910.47	5286.51	4789.95	4697.04
19 P _s	2300.3	2189.2	2165.3	2096.9	1977.5	2299.2	2188.6	2167.3
20 P = (P ₁ + P _s)	2089.3	1989.2	1967.7	1905.07	1797.3	2088.7	1988.9	1968.7
21 P ₂ = (P/P _{ci})	3.111	2.962	2.930	2.837	2.677	3.11	2.962	2.932
22 T ₂ = (T/T _{ci})	1.458	1.4566	1.454	1.453	1.452	1.453	1.4566	1.4539
23 Z (Table XI)	1.747	1.751	1.7495	1.752	1.758	1.747	1.751	1.7495

Due copy to be filed in District Office (Work copy acceptable)