

WORKSHEET FOR CALCULATION OF ST. MIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Revised 9-1-65

COMPANY YPC LEASE Forest EF Co WELL NO. 1 DATE 3-5-77

LOCATION: Unit 0 Section 6 Township 18S Range 25E

L 8190 H 5180 L/H 6.28 % CO₂ 0.63 % N₂ 0.00 % H₂S N/A
 d 3.0008 F₁ 0.00545 GH 5143 P_{cr} 673 T_{cr} 366
 28 - 1.25 (127) 65.25

LINE	1	2	3	4	1	2	3	4
1 O _m	S1	0.130	0.142	0.253	0.288	S1		0.192
2 T _w (R.H. °R)	519	523	526	526	526			
3 T _s (B.H. °R)	596	595	594	592	592			
4 T = (T _w + T _s)	559.5	559	559	559	559	559.5		559
5 Z (Est.)	.78	.784	.785	.785	.79	.786		.786
6 T _Z	434.85	438.256	438.815	440.422	441.6	438.195		439.374
7 GH/T _Z	11.827	11.735	11.7202	11.6755	11.616	11.7268		11.7053
8 e ^s (Table XIV)	1.558	1.55275	1.5519	1.5493	1.5496	1.5528		1.5510
9 1 - e ^s (Table XIV)		0.3560	0.3556	0.3545	0.3538			0.3553
10 P _t	2359.2	2073.2	1954.2	1858.2	1803.2	2383.2		1959.2
11 P _t 2/1000	5708.27	4298.2	3838.5	3452.9	3251.53	5708.27		3878.5
12 F ₁ (Table XV) $\frac{10375}{24}$	.44350	.44007	.43951	.43783	.43673	.44013		.43899
13 F ₁ C = F ₁ T _Z		2.5923	2.5956	3.6655	2.612			2.5989
14 F ₁ C Q _m		0.337	0.498	0.659	0.744			0.499
15 L/H (F ₁ C Q _m) ²		0.1136	0.248	0.435	0.554			0.249
16 F _w = L/H (F ₁ C Q _m) ² (1 - e ^s)		0.040	0.088	0.154	0.196			0.088
17 P _w ² = P _t ² + F _w		4298.2	3838.55	3453.06	3251.73			3838.55
18 P _s ² = e ^s P _w ²	5893.9	6674.0	5959.0	5349.83	5032.39	8864.0		5953.6
19 P _s	2482.3	2583.4	2440.7	2313.0	2243.3	2497.3		2440.0
20 P = (P _t + P _s)	2631.2	2328.3	2199.9	2085.6	2023.2	2683.2		2199.6
21 P _c = (P/P _{cr})	3.99	3.460	3.27	3.10	3.006	3.989		3.268
22 T _c = (T/T _{cr})	1.5232	1.5273	1.5273	1.5273	1.5273	1.5232		1.5273
23 Z (Table XI)	.786	.784	.786	.788	0.792	0.786		0.786