

WORKSHEET FOR CALCULATION OF ST. C COLUMN WELLHEAD PRESSURE (P_w)C-122D
Revised 9-1-85COMPANY Yates Pet. Corp. LEASE Grynsberg LZ State WELL NO. 2 DATE 4-1-82LOCATION: Unit G Section 36 Township 5 S. Range 24 E.L 3906 H 3906 L/H 1 G 0.664 % CO₂ 2.11 % N₂ 5.73 % H₂S 0d 1.995" F_r 0.018231 GH 2.594 P_{cr} 667 T_{cr} 360

TABLE 12.2

LINE	1 ST TRIAL	2 ND TRIAL	1 ST TRIAL	2 ND TRIAL	1 ST TRIAL	2 ND TRIAL	1 ST TRIAL	2 ND TRIAL	1 ST TRIAL	2 ND TRIAL
1 C ₀	0.847	0.847	0.992	0.992	1.167	1.167	1.351	1.351		
2 T ₀ (W.H. 95)	531	531	530	530	528	528	529	529		
3 T ₀ (W.H. 95)	562	562	562	562	562	562	562	562		
4 T ₀ (W.H. 95)	546.5	546.5	546	546	545	545	545.5	545.5		
5 T ₀ (W.H. 95)	0.875		0.877		0.880		0.884			
6 T ₀ (W.H. 95)	478.2	NOT	478.8	NOT	479.6	NOT	482.2	NOT		
7 C ₀ /T ₀	5.425	REQ	5.417	REQ	5.409	REQ	5.379	REQ		
8 e ^s (Table XIV)	1.226		1.225		1.225		1.223			
9 1-e ^s (Table XIV)	0.184		0.184		0.184		0.182			
10 P ₁	876.2	876.2	848.2	848.2	813.2	813.2	773.2	773.2		
11 P ₁ / 1000	767.7	767.7	719.4	719.4	661.3	661.3	597.8	597.8		
12 F ₁ (Table XV)	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231		
13 F ₀ = F ₁ T ₀	8.718		8.729		8.744		8.791			
14 F ₀ Q _m	7.384		8.659		10.204		11.877			
15 L/H (F ₀ Q _m) ²	54.526		74.981		104.117		141.054			
16 F _w = L/H (F ₀ Q _m) ² (1-e ^s)	10.03		13.80		19.16		25.67			
17 P _w ² = P ₁ ² + F _w	777.7		733.2		680.5		623.5			
18 P _s ² = e ^s P _w ²	953.5		898.2		833.6		762.5			
19 P _s	976.5		947.7		913.0		873.2			
20 P = (P ₁ + P _s)	926.3		898.0		863.1		823.2			
21 P _r = (P/P _{cr})	1.3888		1.3463		1.2940		1.2342			
22 T _r = (T/T _{cr})	1.5181		1.5167		1.5139		1.5153			
23 Z (Table XI)	0.875		0.877		0.880		0.884			

