C-122D
Adopted 9-1-65

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

COMPANY YPC LEASE [illegible] WELL NO. 2 DATE 1-23-81

LOCATION: Unit L Section [illegible] Township 6S Range 26E

L 4617 H 4617 L/H 1.000 G 0.690 % CO_2 0.82 % N_2 5.16 % H_2S Nil

[illegible]

d 3.5415 F_r 0.00384 GH 2771.2 P_{cr} 682.5 (TABLE IX & X) T_{cr} 363.5 (TABLE IX & X)

LINE	SI	1	2	3	4	SI	1	2	3	4
1 Q_m	-	0.235	0.319	0.415	0.541			0.319		
2 T_w (W.H. °R)	511	519	522	524	526					
3 T_s (B.H. °R)	559	559	558	557	556					
4 $T = (\frac{T_w + T_s}{2})$	535	539	540	540.5	541			540		
5 Z (Est.)	0.8426	0.853	0.8645	.886	.907			.867		
6 TZ	450.791	462.462	466.83	478.883	490.687			468.18		
7 GH/TZ	6.1485	5.99336	5.9373	5.7872	5.6486			5.9202		
8 e^s (Table XIV)	1.2593	1.2520	1.2494	1.2424	1.2356			1.2486		
9 $1-e^{-s}$ (Table XIV)		0.2013	0.1996	0.1951	0.1904			0.1991		
10 P_t	1015.2	933.2	872.2	736.2	591.2			872.2		
11 $P_t^2/1000$	1030.6	870.86	760.73	542.0	349.52			760.73		
12 ~~F_r (Table XV)~~ .0375 GH/TZ	.23057	0.22475	0.22265	0.21704	0.21132			0.22261		
13 $F_c = F_r$ TZ		4.1113	4.156	4.2573	4.3692			4.1621		
14 $F_c Q_m$		0.9662	1.324	1.8945	2.360			1.3277		
15 $L/H (F_c Q_m)^2$		0.9335	1.753	3.589	5.569			1.763		
16 $F_w = L/H(F_c Q_m)^2(1-e^{-s})$		0.19	0.35	0.70	1.06			0.35		
17 $P_w^2 = P_t^2 + F_w$		871.05	761.08	542.7	350.58			761.08		
18 $P_s^2 = e^s P_w^2$	1297.9	1090.6	950.1	674.25	433.23			950.3		
19 P_s	1139.2	1044.3	975.1	821.1	658.2			974.8		
20 $P = (\frac{P_t + P_s}{2})$	1077.2	988.7	923.7	778.7	624.7			923.5		
21 $P_r = (P/P_{cr})$	1.578	1.449	1.353	1.141	0.915			1.353		
22 $T_r = (T/T_{cr})$	1.472	1.483	1.486	1.487	1.488			1.486		
23 Z (Table XI)	0.8426	0.858	0.867	0.886	0.907			0.867		

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