WORKSHEET FOR CALCULATION OF ST[illegible]IC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adopted 9-1-65

COMPANY YPC LEASE Miles KA [illegible] WELL NO. 1 DATE 7-3-[illegible]

LOCATION: Unit N Section 24 Township 17S Range 24E

L 5036 H 3025 L/H [illegible] G 0.641 % CO_2 0.06 % N_2 [illegible] % H_2S [illegible]

2⅜- [illegible] 19900.
4½- 35[illegible] 5745. d 2.01655 F_r [illegible] GH 32227.4 P_{cr} 669.5 TABLE IX & X T_{cr} 361.5 TABLE IX & X
(4.065)20 (174.7)

LINE	51	1	2	3	4		1	2	3	4
1 Q_m		0.239	0.361	0.486	0.545		[illegible]	.361	.486	.545
2 T_w (W.H. °R)	[illegible]	543	[illegible]	[illegible]	546					
3 T_s (B.H. °R)	570	569	569	568	568					
4 $T = (\frac{T_w + T_s}{2})$	[illegible]	556	[illegible]	[illegible]	[illegible]		[illegible]	556.5	556.5	557
5 Z (Est.)	.792	.800	.806	.818	.826		[illegible]			
6 TZ	439.95	444.8	448.54	455.22	460.08		444.24			
7 GH/TZ	7.3357	7.2558	7.19536	7.0898	7.0148		7.2649			
8 e^S (Table XIV)	1.31665	1.3127	1.3017	1.3046	1.3004		1.31315			
9 $1-e^{-S}$ (Table XIV)		0.2382	0.2365	0.2335	0.2313		0.2385			
10 P_t	1613.2	1543.2	1458.2	1335.2	1262.2		1543.2			
11 $P_t^2/1000$	2602.4	2381.5	2126.3	1782.8	1593.1		2381.5			
12 F_r (Table XV)	0.27509	0.27209	0.26983	0.26587	0.26306		0.27243			
13 $F_c = F_r$ TZ		7.3614	7.2748	7.3832	7.4620		7.2051			
14 $F_c Q_m$		1.7594	2.626	3.5882	4.067		1.722			
15 $L/H (F_c Q_m)^2$		3.095	6.897	12.875	16.539		2.965			
16 $F_w = L/H(F_c Q_m)^2(1-e^{-S})$		0.7	1.6	3.0	3.8		0.7			
17 $P_w^2 = P_t^2 + F_w$		2382.2	2127.9	1785.8	1596.9		2382.2			
18 $P_s^2 = e^S P_w^2$	3426.9	3127.1	2786.9	2329.8	2077.4		3127.2			
19 P_s	1851.2	1768.4	1669.4	1526.4	1441.3		1768.7			
20 $P = (\frac{P_t + P_s}{2})$	1732.2	1655.8	1563.8	[illegible]	1351.2		[illegible]			
21 $P_r = (P/P_{cr})$	2.59	2.473	[illegible]	[illegible]	2.019		[illegible]			
22 $T_r = (T/T_{cr})$	1.5034	1.5049	1.5061	1.5061	1.5074		1.5047			
23 Z (Table XI)	.792	0.799	0.806	0.818	0.826		0.799			

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