Form C-122F
Adopted 9-1-65

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY TENNACO LEASE State HL 11 WELL NO. 2 DATE 2-8-80

LOCATION: Unit _____ Section 11 Township 19S Range 29E

L 4,351 H 4,351 L/H 1.00 G .707 % CO_2 2.364 % N_2 1.039 % H_2S _____

GH 8025 P_{cr} 668 (TABLE IX & X) T_{cr} 392 (TABLE IX & X)

LINE		1	2	3	4	5	6	7	8
1	T_w(W.H. °R)	534	534	534	534	534	534	534	534
2	T_s(B.H. °R)	648	648	648	[illegible]	[illegible]	[illegible]	648	648
3	$T=(\frac{T_w + T_s}{2})$	591	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	Z (Est.)	.885	.836	.864	.812	.819	.790	.783	.772
5	TZ	523.0	495.5	510.6	485.8	484.0	[illegible]	462.8	456.3
6	GH/TZ	15.34	16.18	15.716	16.519	[illegible]	17.188	17.342	17.589
7	e^S(Table XIV)	1.778	1.835	1.803	1.858	1.862	1.905	1.916	1.934
8	P_f or P_s	4262.2	4262.2	4019.2	4019.2	[illegible]	[illegible]	2861.2	2861.2
9	P_f^2 or P_s^2	18166.3	18166.3	16154.0	16154.0	12[illegible]7.6	[illegible]	8186.5	8186.5
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	10212.5	9901.2	8960.4	8694.6	6448.2	6[illegible].7	4272.3	4232.9
11	P_c or P_w	3196.6	3146.6	2993.4	2948.7	2539.3	2510.5	2066.9	2057.4
12	$P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	3709.4	3704.4	3506.3	3483.9	3002.3	[illegible]	2464.[illegible]	2459.3
13	$P_r = (P/P_{cr})$	5.55	5.55	5.25	5.22	4.49	4.47	3.69	3.68
14	$T_r = (T/T_{cr})$	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51