

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY CONOCO, INC. LEASE STATE E WELL NO. 10 DATE 5-9-80
LOCATION: Unit 0 Section 17 Township 22S Range 36E
L 12,390' H 12,390' L/H 1.000 G .747 % CO₂ 1.90 % N₂ 2.05 % H₂S .733

GH 9,255 P_{CT} 672 T_{CT} 396
TABLE IX & X TABLE IX & X

$\frac{1.57}{1.57}$ $\frac{2.40}{2.40}$ $\frac{3.80}{3.80}$ $\frac{1.57}{1.57}$ $\frac{2.40}{2.40}$ $\frac{3.80}{3.80}$

LINE		$\frac{1.57}{1}$	$\frac{2.40}{2}$	$\frac{1.57}{3}$	$\frac{2.40}{4}$	$\frac{3.80}{5}$	$\frac{1.57}{6}$	$\frac{2.40}{7}$	8
1	$T_w(W.H., ^\circ R)$	534	534	534	534	534	534	534	
2	$T_s(B.H., ^\circ R)$	458	458	458	458	458	458	458	
3	$T = (\frac{T_w + T_s}{2})$	596	596	596	596	596	596	596	
4	Z (Est.)	.823	.791	.821	.791	.790	.820	.789	
5	TZ	491	471	484	471	471	489	470	
6	GH/TZ	18.849	19.450	16.926	19.650	19.650	18.926	19.691	
7	e^s (Table XIV)	2.028	2.089	2.033	2.089	2.089	2.033	2.093	
8	P_f or P_s	3492.2	3492.2	3470.2	3470.2	3470.2	3447.2	3447.2	
9	P_f^2 or P_s^2	12195.5	12195.5	12042.3	12042.3	12042.3	11883.2	11883.2	
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	6013.6	5838.0	5923.4	5764.6	5764.6	5845.2	5677.6	
11	P_c or P_w	2452.3	2416.2	2433.8	2401.0	2401.0	2417.7	2382.8	
12	$P_c = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2972.3	2954.2	2952.0	2935.6	2935.6	2932.5	2915.0	
13	$P_r = (P/P_{cr})$	4.42	4.40	4.39	4.37	4.37	4.36	4.34	
14	$T_r = (T/T_{cr})$	1.51	1.51	1.51	1.51	1.51	1.51	1.51	
15	Z (Table XI)	.791	.791	.791	.790	.790	.789	.789	