

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 5-8-80
LOCATION: Unit 0 Section 17 Township 22S Range 36E
L. 15,075' H 15,075' L/H 1,000 G .653 % CO₂ .19 % N₂ 1.49 % H₂S ---

GH 9,844 P_{cr} 669 T_{cr} 372
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. ^\circ R)$	534	534					
2	$T_s(B.H. ^\circ R)$	685	685					
3	$T = \frac{T_w + T_s}{2}$	610	610					
4	Z (Est.)	.863	.839					
5	TZ	526	512					
6	GH/TZ	18.715	19.227					
7	e^s (Table XIV)	2.017	2.057					
8	P_f or P_s	3422.2	3422.2					
9	P_f^2 or P_s^2	11711.5	11711.5					
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	5806.4	5693.5					
11	P_c or P_w	2409.6	2386.1					
12	$P = \frac{P_w + P_s}{2}$ or $\left(\frac{P_c + P_f}{2}\right)$	2915.9	2904.2					
13	$P_r = (P/P_{cr})$	4.36	4.34					
14	$T_r = (T/T_{cr})$	1.64	1.64					
15	Z (Table XI)	.839	.839					