

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

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LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H., ^\circ R)$	534	534	534				
2	$T_s(B.H., ^\circ R)$	685	685	685				
3	$T = \frac{T_w + T_s}{2}$	610	610	610				
4	Z (Est.)	.689	.655	.654				
5	TZ	542	522	521				
6	GH/TZ	18.162	16.658	18.894				
7	e^s (Table XIV)	1.976	2.028	2.031				
8	P_f or P_s	3836.2	3836.2	3836.2				
9	P_f^2 or P_s^2	14716.4	14716.4	14716.4				
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	7447.6	7256.6	7245.9				
11	P_c or P_w	2727.0	2693.8	2691.8				
12	$P = \frac{P_w + P_s}{2}$ or $\left(\frac{P_c + P_f}{2}\right)$	3262.6	3245.0	3244.0				
13	$P_r = (P/P_{cr})$	4.91	4.88	4.88				
14	$T_r = (T/T_{cr})$	1.64	1.64	1.64				
15	Z (Table XI)	.655	.654	.654				