

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

COMPANY Coleco, Inc. LEASE 57976 E WELL NO. 10 DATE 5-9-80

LOCATION: Unit 0 Section 17 Township 23S Range 36E

L 12,390' H 12,390' L/H 1.000 G .747 % CO<sub>2</sub> 1.90 % N<sub>2</sub> 2.05 % H<sub>2</sub>S .733

GH 9,255 P<sub>cr</sub> 672 T<sub>cr</sub> 396  
TABLE IX & X 474 TABLE IX & X

LINE	1	2	3	4	5	6	7	8
$T_w$ (W.H. °R)	534	534	534					
$T_s$ (B.H. °R)	658	658	658					
$T = \frac{T_w + T_s}{2}$	596	596	596					
Z (Est.)	.815	.787	.786					
TZ	486	469	468					
GH/TZ	19.043	19.733	19.776					
$e^s$ (Table XIV)	2.042	2.096	2.099					
$P_f$ or $P_s$	3383.2	3383.2	3383.2					
$P_f^2$ or $P_s^2$	11446.0	11446.0	11446.0					
$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	5605.3	5460.9	5453.1					
$P_c$ or $P_w$	2367.5	2336.9	2335.2					
$P_c = \frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2875.4	2860.1	2859.2					
$P_r = (P/P_{cr})$	4.28	4.26	4.25					
$T_r = (T/T_{cr})$	1.51	1.51	1.51					
Z (Table XI)	.787	.786	.786					

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