

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_T or P_s)

Form C-132F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_T or P_s)

COMPANY Phillips Petroleum LEASE 51110 WELL NO. 1 DATE 12-30-84

LOCATION: Unit Section Township Range

L 2600 H 12005 L/H 1000 G .643 %CO₂ .37 %N₂ .94 %H₂S 0

GH 7924.92 P_G 670 T_G 372

TABLE IX & X

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LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	666	666	666	666	666	666	666
3	$T = (\frac{T_w + T_s}{2})$	600	600	600	600	600	600	600
4	Z (Est.)	.850	.863	.863	.876	.882	.895	.895
5	TZ	510.0	517.8	517.8	525.6	528.2	537.0	538.2
6	GH/TZ	15.637	15.401	15.401	15.172	15.069	14.850	14.817
7	e^G (Table XIV)	1.9779	1.781	1.781	1.766	1.759	1.745	1.743
8	P_T or P_s	1517.2	1517.2	1315.2	1315.2	1074.2	1074.2	913.2
9	P_T^2 or P_s^2	2301.9	2301.9	1729.8	1729.8	1153.9	1153.9	833.9
10	$P_G^2 = P_T^2/e^G$ or $P_w^2 = P_s^2/e^G$	1280.6	1281.9	970.8	979.2	644.7	644.1	478.4
11	P_G or P_w	1131.6	1131.6	985.3	989.5	807.7	813.1	694.4
12	$P = (\frac{P_w + P_s}{2})$ or $(\frac{P_G + P_f}{2})$	1274.4	1274.4	1150.2	1152.3	791.9	793.6	802.4
13	$P_f = (P/P_G)$	1.077	1.98	1.71	1.71	1.30	1.40	1.19
14	$T_f = (T/T_G)$	1.61	1.61	1.61	1.61	1.61	1.61	1.61
15	Z (Table XI)	.863	.863	.876	.876	.895	.895	.910