

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (P_c or P_w)

FORM C-122F

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY HALLWOOD PETRO LEASE : CATCLAW WELL NO. : 17 DATE 7 23 91
 UNIT SECTION : 14 TOWNSHIP : 21 RANGE : 25
 L 10018 H : 10018 L/H : 1 G/GMIX : 0.5900
 CO2 : 0.89 N2 : 0.25 H2S :
 GH : 5910.6 PCR : 672 TCR : 354

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
3	$T = (T_w + T_s / 2)$	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1
4	Z (EST.)	0.901	0.830	0.824	0.825	0.835	0.842	0.854	0.863
5	TZ	526	485	481	482	487	492	499	504
6	GH/TZ	11.232	12.193	12.288	12.266	12.126	12.015	11.844	11.723
7	eS (TABLE XIV)	1.524	1.580	1.585	1.584	1.576	1.569	1.559	1.552
8	P_f or P_s	3139.2	3139.2	2383.2	2383.2	1762.2	1762.2	1362.2	1362.2
9	$P_f 2$ or $P_s 2$	9854.6	9854.6	5679.6	5679.6	3105.3	3105.3	1855.6	1855.6
10	$P_c 2 = P_f / eS$ or $P_w 2 = P_s 2 / eS$	6467.2	6238.2	3582.6	3585.5	1970.7	1978.9	1190.1	1195.5
11	P_c or P_w	2543	2498	1893	1894	1404	1407	1091	1093
12	$P = (P_w + P_s / 2)$ or $(P_c + P_f / 2)$	2841	2818	2138	2138	1583	1584	1227	1228
13	$P_r = (P / P_{cr})$	4.23	4.19	3.18	3.18	2.36	2.36	1.83	1.83
14	$T_r (T / T_{cr})$	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
15	Z (TABLE XI)	0.830	0.829	0.825	0.825	0.842	0.842	0.863	0.863

PW 1 : 2497.6 PW 2 : 1893.6 PW 3 : 1406.7 PW 4 : 1093.4