

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY El Paso Exp. Co. LEASE LP Field WELL NO. 1 DATE 12-28-64

LOCATION: Unit M Section 23 Township 26 Range 30

L 12284 H 12284 L/H 1.000 G .617 % CO₂ .38 % N₂ .91 % H₂S 0 GR

Actual P_{wh} GH 2579.2 P_{cr} 471 T_{cr} 362
TABLE IX & X TABLE IX & X

E	1	2	3	4	5	6	7	8
1 T _w (W.H. °R)	534	534	534	534	534	534	534	534
2 T _s (B.H. °R)	660	660	660	660	660	660	660	660
3 T _f ($\frac{T_w + T_s}{2}$)	597	597	597	597	597	597	597	597
4 Z (Est.)	1.413	1.341	1.338	1.386	1.315	1.311	1.277	1.209
5 TZ	843.6	800.6	798.8	827.4	785.1	782.7	762.4	721.8
6 GH/TZ	8.985	9.467	9.488	9.160	9.634	9.684	9.942	10.501
7 e ^s (Table XIV)	1.401	1.426	1.427	1.410	1.436	1.438	1.452	1.482
8 P _f or P _s	9630.2	9630.2	9630.2	9346.2	9346.2	9346.2	8235.2	8235.2
9 P _f ² or P _s ²	92740.8	92740.8	92740.8	87351.5	87351.5	87351.5	67818.5	67818.5
10 P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	66213.2	65026.1	64979.4	61957.4	60818.9	60751.8	66712.1	45793.7
11 P _c or P _w	8137.1	8063.9	8060.7	7871.3	7778.7	7794.3	6834.7	6762.0
12 P _c ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	8883.7	8847.0	8845.4	8648.8	8572.4	8570.5	7533.0	7499.3
13 P _r = (P/P _{cr})	13.22	13.17	13.16	12.81	12.76	12.75	11.21	11.16
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)	1.341	1.338	1.338	1.315	1.311	1.311	1.209	1.205