

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

FROM KNOWN BOTTOM HOLE PRESSURE (P_g or P_s)

Form C-122F
Adopted 9-1-65

COMPANY MARACO LEASE C + K ST. WELL NO. 1 DATE 6-13-82

LOCATION: Unit L 9450 Section 16 Township 24S Range 34E
H 9450 LH 1.00 G .584 %CO₂ .513 %N₂ .593 %H₂S

GH 5518 P_{cr} 672 T_{cr} 3521
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534	534	534	534	534	534
2	T _s (B.H. °R)	629	629	629	629	629	629	629
3	T = ($\frac{T_w + T_s}{2}$)	582	582	582	582	582	582	582
4	Z (Est.)	.858	.855	.855	.858	.859	.863	.875
5	TZ	498.9	497.2	497.2	498.9	501.8	504.7	508.8
6	GH/TZ	11.1	11.1	11.1	11.0	10.99	10.9	10.8
7	e ^s (Table XIV)	1.51	1.52	1.52	1.51	1.51	1.51	1.50
8	P _f or P _s	2799.2	2799.2	2539.2	2249.2	2249.2	1899.2	
9	P _f ² or P _s ²	7835.5	7835.5	6447.5	5058.9	5058.9	3607.0	3607.0
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	5175.5	5167.9	4252.5	3343.1	3349.5	2353.9	2401.7
11	P_c or P _w	2275.0	(2273.3)	3062.2	(3063.7)	1828.4	(1830.2)	1547.2
12	P _c ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	2537.1	2536.3	2300.7	2301.4	2038.8	2039.7	1723.2
13	P _r = (P/P _{cr})	3.78	3.77	3.42	3.42	3.03	3.03	2.56
14	T _r = (T/T _{cr})	1.66	1.66	1.66	1.66	1.66	1.66	1.66
15	Z (Table XI)	.855	.856	.858	.858	.863	.863	.875