

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 M&C OIL & GAS LEASE PJ Field WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L 4400 H 4400 L/H 1.00 G 1.445 % CO₂ % N₂ % H₂S

GH 2838 P_{cr} 661 T_{cr} 358

TABLE IX A.2 TABLE IX A.2

CONFIDENTIAL

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)	578	578	578	578	578	578	578
3	T _z ($\frac{T_w + T_s}{2}$)	556	556	556	556	556	556	556
4	Z (Est.)	.863	.869	.874	.880	.885	.891	.897
5	TZ	473.8	483.2	485.9	486.3	494.8	498.6	503.1
6	GH/TZ	5.91	5.87	5.44	5.80	5.74	5.70	5.65
7	e ^s (Table XIV)	1.248	1.246	1.244	1.243	1.234	1.233	1.232
8	P _f or P _s	967.2	967.2	874.2	874.2	952.2	952.2	564.2
9	P _f ² or P _s ²	935.5	935.5	764.2	764.2	565.8	565.8	318.3
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	746.4	750.5	613.9	614.8	456.3	456.9	258.5
11	P _c or P _w	865.7	866.3	783.5	784.1	673.5	675.9	508.4
12	P · ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	916.4	911.8	828.9	829.2	713.9	714.1	536.3
13	P _r = (P/P _{cr})	1.29	1.39	1.25	1.25	1.08	1.08	.81
14	T _r = (T/T _{cr})	1.55	1.55	1.55	1.55	1.55	1.55	1.55
15	Z (Table XI)	.869	.869	.869	.869	.865	.865	.869