

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 Dorchester Exploration LEASE Liggett Comm. WELL NO. # 1 DATE 6-16-78

LOCATION: Unit J Section 6 Township 19-S Range 26-E

L 9218 H 9218 L/H 1.000 G .595 % CO₂ % N₂ % H₂S

GH 5485 P_{cr} 671 T_{cr} 358

TABLE IX & X

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LINE	1st	2nd	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)	626	626	626	626	626	626	626
3	T = $(\frac{T_w + T_s}{2})$	580	580	580	580	580	580	580
4	Z (Est.)	.840	.826	.836	.824	.828	.819	.816
5	TZ	487	479	485	478	480	475	473
6	GH/TZ	11.258	11.449	11.312	11.477	11.421	11.517	11.589
7	e ^S (Table XIV)	1.525	1.536	1.528	1.538	1.535	1.542	1.544
8	P _f or P _s	3245.2	3245.2	3177.2	3177.2	3007.2	2717.2	2717.2
9	P _f ² or P _s ²	10531.3	10531.3	10094.6	10094.6	9043.3	7383.2	7383.2
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	6904.5	6855.3	6604.8	6564.1	5892.7	4788.4	4780.8
11	P _c or P _w	2627.6	2618.3	2570.0	2562.1	2427.5	2188.2	2186.5
12	P = $(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2936.4	2931.7	2873.6	2869.6	2717.3	2452.7	2451.8
13	P _r = (P/P _{cr})	4.38	4.37	4.28	4.28	4.05	3.66	3.65
14	T _r = (T/T _{cr})	1.62	1.62	1.62	1.62	1.62	1.62	1.62
15	Z (Table XI)	.826	.826	.824	.824	.819	.816	.816