

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (~~P₂~~ or P_w)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (~~P₂~~ or P_s)

COMPANY Morale, Inc. LEASE State K. 33 Com WELL NO. 3 DATE 10-24-84

LOCATION: Unit 0 Section 30 Township 16S Range 36E

L 11,723 H 11,723 L/H 1.00 G 1.702 %CO₂ 1.385 %N₂ 1.356 %H₂S

GH 8230 P_{CT} 667 T_{CT} 389

Table No. 1 NO. 2 NO. 3 NO. 4

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)	651	651	651	651	651	651	651
3	T = ($\frac{T_w + T_s}{2}$)	592	592	592	592	592	592	592
4	Z (Est.)	.878	.833	.856	.815	.830	.797	.771
5	TZ	519.8	493.1	506.7	482.5	491.4	471.8	459.4
6	GH/TZ	15.833	16.690	16.841	17.058	16.749	17.443	17.915
7	e ^s (Table XIV)	1.811	1.870	1.839	1.896	1.874	1.923	1.958
8	P₂ or P _s	4188.2	4188.2	3926.2	3926.2	3600.2	2666.2	2666.2
9	P₂ or P _s ²	17541.0	17541.0	15415.0	15415.0	12961.4	7108.6	7108.6
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	9485.8	9380.7	8383.9	8130.9	6916.5	6738.7	3630.5
11	P_c or P _w	3112.2	3062.8	2895.5	2851.5	2629.9	2555.9	1905.4
12	P _c = ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_s}{2}$)	3650.2	3635.5	3410.9	3388.8	3115.1	3098.0	2285.8
13	P _r = (P/P _{cr})	5.47	5.44	5.11	5.08	4.67	4.64	3.43
14	T _r = (T/T _{cr})	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15	Z (Table XI)	.833	.832	.815	.813	.797	.796	.771

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G.C.D.
HOBB'S OFFICE