

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_{wf} or P_w)

FROM KNOWN BOTTOM HOLE PRESSURE (P_{bh} or P_b)

Form O-132F
Adopted 9-1-65

COMPANY GEAR WESTERN DRILLING LEASE MOSLEY SPRINGS WELL NO. 32-2 DATE 11-14-88

LOCATION: Unit Section Township Range

L 9563 H 9563 LN 1.000 G 1.642 %CO₂ 1.55 %N₂ .66 %H₂S 0

* FLOWING BONDS
CAL. BACK TO SURFACE
GH 6139.4 P_{cr} 670 T_{cr} 372

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	650	650	650	650	650	650	650
3	$T = \frac{T_w + T_s}{2}$	592	592	592	592	592	592	592
4	Z (Est.)	.858	.880	.882	.884	.886	.816	.819
5	TZ	507.9	495.5	496.0	487.8	487.2	483.0	484.8
6	GH/TZ	12.086	12.390	12.375	12.585	12.600	12.709	12.662
7	e^S (Table XIV)	1.573	1.591	1.590	1.663	1.604	1.610	1.607
8	P_{fcr} or P_s	3569.2	3564.2	3214.2	2857.2	2857.2	2226.2	2226.2
9	P_1^2 or P_g^2	12703.5	12703.5	10331.1	10331.1	8163.6	8163.6	4956.0
10	$P_c^2 = P_1^2 / e^S$ or $P_w^2 = P_g^2 / e^S$	8073.7	7982.4	6495.2	6444.2	5089.3	5068.7	3082.5
11	P_{cwf} or P_w	2841.4	2825.3	2548.5	2538.6	2255.9	2251.4	1753.7
12	$P = \frac{P_w + P_s}{2}$ or $\left(\frac{P_c + P_1}{2} \right)$	3202.8	3194.7	2881.3	2896.3	2556.5	2554.2	1990.9
13	$P_r = (P/P_{cr})$	4.78	4.77	4.30	4.29	3.81	3.81	2.57
14	$T_r = (T/T_{cr})$	1.59	1.59	1.59	1.59	1.59	1.59	1.59
15	Z (Table XI)	.880	.880	.884	.824	.816	.816	.826