

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 Arco Oil Corp LEASE STATE 16 WELL NO. 2 DATE 9.13/9.20.79

LOCATION: Unit E Section 16 Township 14 Range 36

L 12936 H 12,936 LH 1,000 G .643 %CO₂ 372 %N₂ 372 %H₂S 372

GH 8318 P_{cr} 670 T_{cr} 372

TABLE B X

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LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	685	685	685	685	685	685	685
3	$T = (\frac{T_w + T_s}{2})$	610	610	610	610	610	610	610
4	Z (Est.)	.838	.821	.822	.816	.823	.835	.829
5	TZ	511.2	500.8	501.4	497.8	502.0	509.4	505.7
6	GH/TZ	16.272	16.609	16.590	16.710	16.570	16.329	16.448
7	e^s (Table XIV)	1.841	1.864	1.863	1.871	1.861	1.845	1.853
8	P_f or P_s	3210.2	3210.2	2813.2	2813.2	2040.2	2040.2	1902.2
9	P_f^2 or P_s^2	10305.4	10305.4	7914.1	7914.2	4162.4	4162.4	3618.4
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	5597.7	5528.6	4248.0	4229.9	2236.6	2256.0	1952.7
11	P_c or P_w	2365.9	2351.3	2061.1	2056.7	1495.5	1502.0	1399.4
12	$P_c \cdot (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2788.1	2780.8	2437.2	2435.0	1767.9	1771.1	1649.8
13	$P_r = (P/P_{cr})$	4.16	4.15	3.64	3.63	2.64	2.64	2.96
14	$T_r = (T/T_{cr})$	1.64	1.64	1.64	1.64	1.64	1.64	1.64
15	Z (Table XI)	.821	.821	.816	.816	.835	.835	.842

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