

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)

4-27-83

COMPANY Harper Oil Co. LEASE Denton Federal WELL NO. 1 DATE 4-27-83

LOCATION: Unit M Section 24 Township 5S Range 27E

L 5562 H 5562 L/H 1.00 G 1699 % CO₂ 1.85 % N₂ 7.42 % H₂S ---

GH 4847 PCT 66.5 TCT 6.5
TABLE IX & X TABLE IX & X

NOTE I

II

III

IV

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	604	604	604	604	604	604	604
3	$T = \frac{T_w + T_s}{2}$	547	569	569	569	569	569	569
4	Z (Est.)	.819	.825	.835	.843	.876	.884	.926
5	TZ	466.0	467.4	490.1	499.9	498.4	503.0	524.7
6	GH/TZ	10.84	10.37	10.22	10.15	9.74	8.62	9.24
7	e^S (Table XIV)	1.179	1.475	1.448	1.443	1.442	1.437	1.413
8	P_f or P_s	2130.2	2100.2	1953.2	1953.2	1137.2	1137.2	624.2
9	P_f^2 or P_s^2	4736.9	4796.9	3093.7	3093.7	1283.2	1283.2	404.7
10	$P_c^2 = P_f^2/es$ or $P_w^2 = P_s^2/es$	3242.5	3251.7	2053.3	2100.7	594.7	549.7	284.2
11	P_c or P_w	1800.7	(1803.3)	1446.2	(1449.5)	946.9	(948.3)	535.0
12	$P_c = \frac{P_w + P_s}{2}$ or $(\frac{P_c + P_f}{2})$	1995.4	1996.7	1600.5	1601.3	1042.1	1042.3	585.6
13	$P_r = (P/P_{cr})$	3.00	3.00	2.41	2.41	1.57	1.57	.88
14	$T_r = (T/T_{cr})$	1.54	1.54	1.54	1.54	1.54	1.56	1.56
15	Z (Table XI)	.825	.825	.843	.843	.884	.884	.933

