

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_w or P_s)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_b or P_s)

COMPANY SUPERIOR OIL LEASE DELTA FEDERAL WELL NO. # 1 DATE 05-22-80

LOCATION: Unit _____ Section 7 Township 25 Range 26

L 11440 H 11440 L/H 1.000 G .5721 % CO₂ .865 % N₂ .495 % H₂S _____

GH 6545 P_{cr} 672 T_{cr} 346
TABLE IX & X

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)	648	648	648	648	648	648	648
3	T = (T _w + T _s) / 2	591	591	591	591	591	591	591
4	Z (Est.)	.969	.936	.953	.922	.932	.905	.887
5	TZ	572.7	553.2	563.2	544.9	550.8	534.9	524.2
6	GH/TZ	11.429	11.832	11.621	12.011	11.882	12.237	12.485
7	e ^s (Table XIV)	1.535	1.558	1.546	1.569	1.561	1.582	1.578
8	P _f or P _s	4763.2	4763.2	4549.2	4549.2	4263.2	3911.2	3911.2
9	P _f ² or P _s ²	22688.1	22688.1	20695.2	20695.2	18174.9	18174.9	15297.5
10	P _{cr} ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	14779.7	14558.0	13384.7	13190.4	11640.2	11486.3	9692.1
11	P _c or P _w	3844.4	3815.5	3658.5	3631.9	3411.8	3389.1	3113.2
12	P = (P _w + P _s) / 2 or (P _c + P _f) / 2	4303.8	4289.3	4103.9	4090.5	3837.5	3826.2	3512.2
13	P _r = (P/P _{cr})	6.40	6.38	6.11	6.09	5.71	5.69	5.23
14	T _r = (T/T _{cr})	1.71	1.71	1.71	1.71	1.71	1.71	1.71
15	Z (Table XI)	.936	.934	.922	.922	.905	.904	.887