

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 Samedan Oil Corp. LEASE State 16 WELL NO. 3 DATE 11/23/82

LOCATION: Unit Section 16 Township 7s Range 26e
L 4049 H 4049 L/H 1.000 G .7316 %CO₂ 10.218 %N₂ 5.088 %H₂S

GH 2962 P_{cr} 703 T_{cr} 370
TABLE 12.2.1

1st Rate 2nd Rate 3rd Rate 4th Rate

LINE	1	2	3	4	5	6	7	8
1 $T_w(W.H. \cdot R)$	534	534	534	534	534	534	534	534
2 $T_s(B.H. \cdot R)$	574	574	574	574	574	574	574	574
3 $T = (\frac{T_w + T_s}{2})$	554	554	554	554	554	554	554	554
4 Z (Est.)	.861	.868	.862	.869	.865	.871	.868	.874
5 TZ	477.0	480.9	477.5	481.4	479.2	482.5	480.9	484.2
6 GH/TZ	6.210	6.160	6.203	6.153	6.181	6.138	6.160	6.117
7 e^S (Table XIV)	1.262	1.260	1.262	1.260	1.261	1.259	1.260	1.258
8 P_f or P_s	1042.2	1042.2	1031.2	1031.2	1014.2	1014.2	984.2	984.2
9 P_f^2 or P_s^2	1086.2	1086.2	1063.4	1063.4	1028.6	1028.6	968.7	968.7
10 $P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	860.5	862.1	842.7	844.3	815.8	817.1	768.9	770.1
11 P_c or P_w	927.6	928.5*	918.0	918.8*	903.2	903.9*	876.8	877.6*
12 $P_c \cdot (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	984.9	985.4	964.6	975.0	958.7	959.1	930.5	930.9
13 $P_f = (P/P_{cr})$	1.40	1.40	1.39	1.39	1.36	1.36	1.32	1.32
14 $T_f = (T/T_{cr})$	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
15 Z (Table XI)	.868	.868	.869	.869	.871	.871	.874	.874