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 OXY USA, INC. LEASE SWEARINGER WELL NO. A NO.1 DATE 11-13-89

LOCATION: Unit J Section 5 Township 23S Range 28E

L *11341 H 11341 L/H 1.000 G .577 % CO_2 .36 % N_2 .25 % H_2S —

* BHP THIS SET @ THIS LOCATION

GH 65-42.76 P_{CT} 672 (TABLE IX & X) T_{CT} 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	534
2	T_s(B.H. °R)	647	647	647	647	647	647	647	647
3	$T=(\frac{T_w + T_s}{2})$	590.5	590.5	590.5	590.5	590.5	550.5	550.5	590.5
4	Z (Est.)	1.017	.977	1.018	.978	.950	.920	.900	.880
5	TZ	600.5	576.9	601.1	577.5	560.9	543.2	531.4	519.6
6	GH/TZ	10.896	11.342	10.885	11.331	11.664	12.045	12.313	12.592
7	e^s(Table XIV)	1.504	1.530	1.504	1.529	1.548	1.570	1.586	1.603
8	~~P_f~~ or P_s	5368.2	5368.2	5378.2	5378.2	4515.2	4515.2	3772.2	3772.2
9	~~P_f^2~~ or P_s^2	28817.5	28817.5	28926.0	28926.0	20387.0	20387.0	14229.4	14229.4
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	19151.2	18833.5	19230.3	18911.9	13163.6	12977.2	8967.2	8873.6
11	~~P_c~~ or P_w	4376.2	4339.7	4385.2	4348.7	3628.1	3602.3	2994.5	2978.5
12	$P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	4872.2	4853.9	4881.7	4863.5	4071.6	4058.7	3383.5	3375.1
13	$P_r = (P/P_{CT})$	7.25	7.23	7.26	7.24	6.05	6.04	5.03	5.02
14	$T_r = (T/T_{CT})$	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
15	Z (Table XI)	.977	.976	.978	.977	.920	.920	.880	.880

One copy to be filed in District Office (Work copy acceptab