

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

Form C-122F
Adopted 9-1-65

COMPANY TXO LEASE McCORD A WELL NO. 1 DATE 12-28-84

LOCATION: Unit A Section 30 Township 21S Range 27E

L 10,300 H 10,300 L/H 1.00 G .19 % CO₂ 1.243 % N₂ .201 % H₂S

GH 6067 P_{cr} 676 T_{cr} 349

RATES NO. 1

NO. 2

NO. 3

NO. 4

LINE	1	2	3	4	5	6	8
1	T _w (W.H. °R)	534	534	534	534	534	534
2	T _s (B.H. °R)	637	637	637	637	637	637
3	T = $\frac{T_w + T_s}{2}$	585	585	585	585	585	585
4	Z (Est.)	.863	.870	.868	.873	.881	.889
5	TZ	505.3	509.3	508.2	512.3	515.8	520.5
6	GH/TZ	19.01	11.91	11.94	11.84	11.76	11.65
7	e ^s (Table XIV)	1.569	1.563	1.565	1.559	1.554	1.548
8	P _f or P _s	2062.2	2062.2	1915.2	1915.2	1763.2	1585.2
9	P _f ² or P _s ²	4252.7	4252.7	3668.0	3668.0	3108.9	2513.9
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	2710.1	2720.7	2344.3	2352.7	1992.1	1623.1
11	P _c or P _w	1646.5	1649.5	1531.1	1533.8	1411.4	1274.0
12	P _c = $\frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	1854.5	1855.8	1723.2	1734.5	1587.3	1429.6
13	P _r = (P/P _{cr})	2.74	2.74	2.55	2.55	2.35	2.11
14	T _r = (T/T _{cr})	1.68	1.68	1.68	1.68	1.68	1.68
15	Z (Table XI)	.870	.870	.875	.875	.881	.889