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

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY BPLCD LEASE Guitar Fed Com WELL NO. 1 DATE 7-28-80

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 12,283 H 12,283 L/H 1,00 G .63 % CO_2 1.25 % N_2 1,23 % H_2S _____

GH 7407 P_{cr} 674 (TABLE IX & X) T_{cr} 354 (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)	657	657	657	657	657	657	657	657
3	$T=(\frac{T_w - T_s}{2})$	596	596	596	596	596	596	596	596
4	Z (Est.)	.941	.937	.960	.925	.940	.908	.912	.864
5	TZ	560.0	558.0	571.7	550.5	559.8	540.7	543.1	532.1
6	GH/TZ	12,770	13,275	12,957	13,447	13,232	13,699	13,461	13,913
7	e^s(Table XIV)	1.614	1.645	1.626	1.636	1.642	1.671	1.658	1.685
8	P_f or P_s	4843.2	4843.2	4660.2	4660.2	4387.2	4387.2	4190.2	4190.2
9	P_f^2 or P_s^2	23456.6	23456.6	21715.2	21715.2	19253.9	19253.9	17562.0	17562.0
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	14530.7	14,258.5	13350.1	13211.4	11726.2	11463.9	10595.9	10426.1
11	P_c or P_w	3811.9	3776.0	3653.1	3635.7	3425.4	3385.7	3255.4	3229.1
12	$P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	4327.6	4309.6	4157.6	4140.9	3896.3	3881.5	3654.8	3647.2
13	$P_r = (P/P_{cr})$	6.42	6.39	6.17	6.14	5.78	5.76	5.43	5.41
14	$T_r = (T/T_{cr})$	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
15	Z (Table XI)	.937	.935	.925	.934	.941	.911	.944	.944