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

FROM KNOWN BOTTOM HOLE PRESSURE (~~P_t~~ or P_s)

Form C-122F
Adopted 9-1-65

COMPANY Harper Oil Co LEASE South Dallas WELL NO. 1 DATE 1-11-85

LOCATION: Unit F Section 2 Township 10 S Range 26 E

L 6121 H 6121 L/H 1.00 G .598 % CO_2 .101 % N_2 2.687 % H_2S _____

GH 3660 P_{cr} 663 (TABLE IX & X) T_{cr} 349 (TABLE IX & X)

RATES

LINE		#1		#2		#3		#4	
		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)	595	595	595	595	595	595	595	595
3	$T=(\frac{T_w + T_s}{2})$	564	564	564	564	564	564	564	564
4	Z (Est.)	.960	.959	.956	.958	.951	.954	.943	.945
5	TZ	541.9	541.3	539.7	540.8	536.8	538.5	532.3	533.5
6	GH/TZ	6.75	6.701	6.78	6.77	6.82	6.80	6.88	6.86
7	e^S(Table XIV)	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
8	P_f or P_s	358.2	358.2	368.2	368.2	409.2	409.2	491.2	491.2
9	P_f^2 or P_s^2	128.3	128.3	135.6	135.6	167.4	167.4	241.3	241.3
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	99.6	99.6	105.1	105.2	129.7	129.8	186.4	186.5
11	P_c or P_w	315.6	315.6	324.2	324.3	360.1	360.2	431.8	431.9
12	$P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	336.9	336.9	346.2	346.3	384.6	384.7	461.5	461.6
13	$P_r = (P/P_{cr})$	.51	.51	.52	.52	.58	.58	.70	.70
14	$T_r = (T/T_{cr})$	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
15	Z (Table XI)	.959	.959	.958	.958	.954	.954	.945	.945

One copy to be filed in District Office (Work copy acceptable)