

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_h or P_s)

COMPANY Bass Enterprises LEASE Poker Lake WELL NO. 53 DATE 6-7-82

LOCATION: Unit 9 Section 9 Township 25S Range 31E

L 15418 H 15418 L/H 1.000 G .5862 % CO₂ 1.993 % N₂ 2.256 % H₂S

GH 9038 P_{cr} 672 T_{cr} 354
TABLE IX A X TABLE IX B X

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534	534	534	534	534	534
2	T _s (B.H. °R)	688	688	688	688	688	688	688
3	T = ($\frac{T_w + T_s}{2}$)	611	611	611	611	611	611	611
4	Z (Est.)	1.210	1.140	1.170	1.102	1.080	1.022	.966
5	TZ	739.3	696.5	714.9	673.3	659.9	624.4	590.2
6	GH/TZ	12.225	12.976	12.643	13.423	13.696	14.474	15.313
7	e ^s (Table XIV)	1.582	1.627	1.607	1.654	1.671	1.721	1.776
8	P _f or P _s	7587.2	7587.2	7147.2	7147.2	6141.2	6141.2	5054.2
9	P _f ² or P _s ²	57565.6	57565.6	51082.5	51082.5	37714.3	37714.3	25544.9
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	36397.0	35386.3	31795.6	30879.1	22565.9	21917.1	14385.2
11	P _c or P _w	6033.0	*5948.6	5638.8	*5556.9	4750.4	*4681.6	3792.8
12	P - ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	6810.1	6767.9	6393.0	6352.0	5445.8	5411.4	4423.5
13	P _r = (P/P _{cr})	10.13	10.07	9.51	9.45	8.10	8.05	6.58
14	T _r = (T/T _{cr})	1.73	1.73	1.73	1.73	1.73	1.73	1.73
15	Z (Table XI)	1.140	1.136	1.102	1.098	1.022	1.020	.944
								.943