

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_w or P_s)
FROM KNOWN BOTTOM HOLE PRESSURE (P_b or P_s)

Form G-122F
Adopted 9-1-65

COMPANY Molley Energy Lease ST. 30 WELL NO. 1 DATE 5-21-80

LOCATION: Unit A Section 30 Township 17 Range 28

9282 H 9282 LH 1.00 G 1.672 % CO₂ 1.168 % N₂ .782 % H₂S

GH 6574 P_{cr} 669 T_{cr} 382
TABLE IX A & B TABLE IX A & B

Rate I II III IV

LINE	1	2	3	4	5	6	7	8
1	$f_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	622	622	622	622	622	622	622
3	$T = (\frac{T_w + T_s}{2})$	578	578	578	578	578	578	578
4	Z (Est.)	.815	.791	.804	.783	.798	.780	.775
5	TZ	471.1	457.2	464.7	452.6	461.2	450.8	447.9
6	GH/TZ	1396	14,379	14,146	14,526	14,353	14,582	14,676
7	e^S (Table XIV)	1.688	1.715	1.699	1.724	1.707	1.728	1.717
8	P_f or P_s	3422.2	3422.2	3242.2	3342.2	3140.2	3140.2	2988.2
9	P_f^2 or P_s^2	11,711.5	11,711.5	10,511.9	10,511.9	9860.9	9860.9	8929.3
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	6839.6	6830.2	6184.3	6096.9	5776.2	5707.4	5200.6
11	P_c or P_w	2634.3	2613.5	2486.8	2469.2	2403.8	2389.0	2264.4
12	$P \cdot (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	3028.3	3017.8	2864.5	2855.7	2772.0	2764.6	2634.3
13	$P_r = (P/P_{cr})$	4.53	4.51	4.28	4.27	4.14	4.13	3.93
14	$T_r = (T/T_{cr})$	1.51	1.51	1.51	1.51	1.51	1.51	1.51
15	Z (Table XI)	.791	.790	.783	.783	.780	.775	.775