

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Marshall Pipe & Supply Co. LEASE Wendell Best WELL NO. 1 DATE 5-20-86

LOCATION: Unit J Section 27 Township 25 Range 37 E
L 7013 H 7013 LH 1.100 G 1.677 %CO₂ 0.403 %N₂ 6.190 %H₂S

GH 4749 P_{gr} 656 T_{gr} 361
TABLE IX B X TABLE IX B X

(Johnson's BHP)

No. 1

No. 2

No. 3

No. 4

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534	534	534	534	534	534
2	$T_s(B.H. \cdot R)$	605	605	605	605	605	605	605
3	$T = \frac{T_w + T_s}{2}$	569.5	569.5	569.5	569.5	569.5	569.5	569.5
4	Z (Est.)	.828	.819	.830	.820	.837	.825	.839
5	TZ	464.7	466.4	465.3	466.9	466.4	469.8	469.8
6	GH/TZ	10.206	10.169	10.194	10.156	10.165	10.095	9.927
7	e^s (Table XIV)	1.466	1.464	1.465	1.464	1.464	1.460	1.451
8	P_f or P_s	2417.2	2417.2	2338.2	2338.2	2170.2	2170.2	1833.2
9	P_f^2 or P_s^2	5842.9	5842.9	5467.2	5467.2	4666.5	4666.5	3360.6
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	3984.8	3990.4	3730.3	3735.5	3187.0	3195.8	2316.1
11	P_c or P_w	1996.2	1997.6	1931.4	1932.8	1785.2	1787.7	1521.9
12	$P \cdot (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2206.7	2207.4	2130.8	2135.5	1972.7	1973.9	1677.5
13	$P_r = (P/P_{gr})$	3.36	3.36	3.25	3.25	3.01	3.01	2.55
14	$T_r = (T/T_{gr})$	1.58	1.58	1.58	1.58	1.58	1.58	1.58
15	Z (Table XI)	.819	.819	.820	.820	.825	.825	.839

RECEIVED
JUN 16 1986
C. G. B.
HOBBS OFFICE