

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

Form C-122F
Adopted 9-1-65

COMPANY NH TOWNSMAN LEASE ⁶⁸⁸⁰ STATE OF New Mexico WELL NO. 1 DATE 7-20-78

LOCATION: Unit M Section 19 Township 10S Range 32E

L 10760 H 10760 LH 100 G 266 %CO₂ 1 %N₂ 1 %H₂S 1

GH 7597 P_{CT} 668 T_{CT} 392
TABLE IX B X TABLE IX B X

NOTE I II III IV

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)	642	642	642	642	642	642	642
3	T = (T _w + T _s) / 2	588	588	588	588	588	588	588
4	Z (Est.)	.795	.776	.777	.771	.772	.779	.832
5	TZ	467.5	456.3	456.9	453.3	453.9	458.1	479.2
6	GH/TZ	16.252	16.650	16.623	16.758	16.736	16.585	15.853
7	e ^s (Table XIV)	1.839	1.867	1.866	1.825	1.873	1.863	1.812
8	P_w or P _s	3088.2	3088.2	2696.2	2299.2	2292.2	1438.2	1438.2
9	P_w or P _s ²	9536.9	9536.9	7269.5	5027.5	5027.5	2068.4	2068.4
10	P _c ² = P _t ² /e ^s or P _w ² = P _s ² /e ^s	5184.8	5108.1	3896.7	3872.8	2689.0	2699.2	1141.5
11	P_w or P _w	2277.0	2260.1	1974.0	1966.2	1638.3	1642.9	1064.4
12	P _w = (P _w ² + P _s ²) / 2 or (P _c ² + P _s ²) / 2	2682.4	2674.1	2335.1	2332.7	1940.3	1942.6	1853.3
13	P _r = (P/P _{cr})	4.02	4.00	3.50	3.49	2.90	2.91	1.88
14	T _r = (T/T _{cr})	1.50	1.50	1.50	1.50	1.50	1.50	1.50
15	Z (Table XI)	.776	.776	.771	.771	.779	.779	.832

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MAR 15 1979
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