

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

Form C-122F
Adopted 9-1-65

COMPANY Newbome LEASE Federal WELL NO. #1 DATE 5-21-91

LOCATION: Unit 11022 H 11022 Section 8 Township 20S Range 28E

L 11022 H 11022 L/H 1.000 G -613 %CO₂ 1.99 %N₂ .64 %H₂S

GH 6756 P_{cr} 678 T_{cr} 356
1st RATE 2nd RATE 3rd RATE 4th RATE

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. • R)	530	530	530	530	530	530	530
2	T _s (B.H. • R)	631	631	631	631	631	631	631
3	T = $\frac{T_w + T_s}{2}$	580.5	580.5	580.5	580.5	580.5	580.5	580.5
4	Z (Est.)	.835	.835	.839	.843	.851	.858	.870
5	TZ	484.7	487.0	489.6	494.0	498.2	505.0	513.0
6	GH/TZ	13.938	13.872	13.799	13.676	13.561	13.377	13.170
7	e ^s (Table XIV)	1.687	1.682	1.678	1.670	1.663	1.651	1.639
8	or P _s	2342	2093	2093	1758	1758	1316	1316
9	or P _s ²	5485.0	4380.6	4380.6	3090.6	3090.6	1731.9	1731.9
10	or P _s ² or P _w ² = P _s ² /e ^s	3252.2	2603.9	2611.0	1850.6	1858.6	1048.7	1056.3
11	or P _w	1803.4	1613.7	1615.9	1360.4	1363.3	1024.1	1028.0
12	P _r = $\frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2072.7	1853.3	1854.4	1559.2	1560.6	1170.0	1172.0
13	P _r = (P/P _{cr})	3.06	2.73	2.74	2.30	2.30	1.73	1.73
14	T _r = (T/T _{cr})	1.63	1.63	1.63	1.63	1.63	1.63	1.63
15	Z (Table XI)	.835	.843	.843	.858	.858	.884	.892