

ILLEGIBLE

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

Form C-122F
Adopted 9-1-65

COMPANY Cities Service LEASE GOR A0 WELL NO. 3 DATE 10-3-81

LOCATION: Unit H Section 21 Township 21S Range 27E
L 11.490 H 11.490 L/H 1.00 G .582 % CO₂ 1.253 % N₂ .325 % H₂S _____

GH 6657 P_{gt} 676 T_{gt} 349
TABLE IX A X TABLE IX B X

19785 No. 1 NO. 2 NO. 3 NO. 4

LINE	1	2	3	4	5	6	7	8
1	T _w (B.H. °R)	534	534	534	534	534	534	534
2	T _g (B.H. °R)	648	648	648	648	648	648	648
3	T _w ($\frac{T_w + T_g}{2}$)	591	591	591	591	591	591	591
4	Z (Est.)	849	858	862	855	858	858	862
5	TZ	507.1	507.4	505.8	505.0	507.1	507.1	509.4
6	GH/TZ	11.62	13.19	13.13	13.25	13.22	13.19	13.12
7	as (Table XIV)	1.64	1.64	1.64	1.64	1.64	1.64	1.64
8	P _f or P _s	3161.2	3161.2	3971.2	3971.2	2680.2	2680.2	2336.2
9	P _f ² or P _s ²	10000.0	9993.2	15778.0	15778.0	7183.2	7183.2	5457.8
10	P _g ² = P _f ² /es or P _w ² = P _s ² /es	6132.7	6004.5	5356.2	5379.5	4408.6	4413.7	3336.2
11	P _c or P _w	3476.4	2468.1	2323.0	2318.3	2097.7	2100.9	1826.5
12	P _c ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	2818.8	2814.1	2647.1	2644.8	2334.9	2335.5	2081.4
13	P _f = (P/P _c)	1.11	4.16	3.02	3.91	3.54	3.51	3.08
14	T _f = (T/T _{gt})	1.69	1.69	1.69	1.69	1.69	1.69	1.69
15	Z (Table XI)	0.88	0.857	0.85	0.855	0.858	0.858	0.862