

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

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_z)

COMPANY Cities Service LEASE Gov. "C" WELL NO. 1 DATE 11-16-79

LOCATION: Unit L 9170 Section H 9170 Township LAH 100 Range G 681

% CO₂ 0 % N₂ 0 % H₂S 0

GH 6245 P_{CT} 669 T_{CT} 385

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534					
2	T _s (B.H. °R)	1626	626					
3	T = $(\frac{T_w + T_s}{2})$	580	580					
4	Z (Est.)	1.862	1.828					
5	TZ	499.9	480.2					
6	GH/TZ	12.491	13.004					
7	e ^s (Table XIV)	1.597	1.628					
8	P _f or P _s	4001.2	4001.2					
9	P _f ² or P _s ²	16,009.6	16,009.6					
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	10,021.9	9831.0					
11	P _c or P _w	3165.7	3135.4					
12	P _r = $(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	3583.5	3568.3					
13	P _r = (P/P _{CT})	5.36	5.33					
14	T _r = (T/T _{CT})	1.52	1.52					
15	Z (Table XI)	1.00	1.00					