

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

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Cities Service LEASE Ives A WELL NO. 1 DATE 4/2/79

LOCATION: Unit 5 Section 30 Township 21 Range 27

L 11,336 H 11,336 LH 1.00 G .589 % CO₂ _____ % N₂ _____ % H₂S _____

GH 6677 P_{CT} 672 T_{CT} 350

Shuntin

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534						
2	T _s (B.H. °R)	647						
3	T = $(\frac{T_w + T_s}{2})$	591						
4	Z (Est.)	1967						
5	TZ	571.5						
6	GH/TZ	11.683						
7	e ^s (Table XIV)	1.550						
8	P _f or P _s	4738.2						
9	P _f ² or P _s ²	22450.5						
10	P _c ² = P _f ² /es or P _w ² = P _s ² /es	14484.2						
11	P _c or P _w	3805.8						
12	P = $(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	4272.0						
13	P _r = (P/P _{cr})	6.36						
14	T _r = (T/T _{cr})	1.69						
15	Z (Table XI)	.933						