

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_{ws} or P_w)

Form C-122F
Adopted 9-1-55

FROM KNOWN BOTTOM HOLE PRESSURE (P_h or P_s)

COMPANY Tennaco LEASE AL WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L 10,870 H 10,870 G 1632 % CO₂ % N₂ % H₂S

GH 6870 P_{CT} 670 T_{CT} 368

LINE	RATE I			RATE II			RATE III			RATE IV		
	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)	643	643	643	643	643	643	643				
3	T = $\frac{T_w + T_s}{2}$	589	589	589	589	589	589	589				
4	Z (Est.)	.957	.917	.905	.906	.909	.919	.883				
5	TZ	563.2	535.7	556.1	533.2	534.9	526.7	519.6				
6	GH/TZ	12.198	12.730	12.353	12.885	12.842	13.043	13.221				
7	e ^s (Table XIV)	1.580	1.612	1.589	1.621	1.619	1.631	1.642				
8	P _h or P _s	4837.2	4837.2	4697.2	4697.2	4597.2	4547.2	4365.2				
9	P _h ² or P _s ²	23,399	23,399	22,063.7	22,063.7	20,677.0	20,677.0	19,055.0				
10	P _c ² = P _h ² /e ^s or P _w ² = P _s ² /e ^s	14,809.0	14,516.5	13,883.3	13,609.2	12,774.3	12,678.4	11,606.4				
11	P _c or P _w	3848.2	3810.0	3726.0	3689.1	3574.1	3560.7	3406.8				
12	P _c · $\left(\frac{P_w + P_s}{2}\right)$ or $\left(\frac{P_c + P_h}{2}\right)$	4342.7	4323.6	4211.6	4193.1	4060.7	4053.9	3886.0				
13	P _h = (P/P _{CT})	6.48	6.45	6.29	6.26	6.06	6.05	5.80				
14	T _h = (T/T _{CT})	1.60	1.60	1.60	1.60	1.60	1.60	1.60				
15	Z (Table XI)	1.917	1.915	1.906	1.905	1.895	1.894	1.882				