

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

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

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

L 11022 H 11022 LH 1.00 G .613 %CO₂ 1.99 %N₂ .64 %H₂S

GH P_{cr} T_{cr}

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	530	530					
2	$T_s(B.H. \cdot R)$	631	631					
3	$T = (\frac{T_w + T_s}{2})$	580.5	580.5					
4	Z (Est.)	.815	.830					
5	TZ	473.1	481.8					
6	GH/TZ	14.280	14.022					
7	e^s (Table XIV)	1.708	1.692					
8	P_f or P_g	2630	2630					
9	P_f^2 or P_g^2	6916.9	6916.9					
10	$P_c^2 = P_f^2 / e^s$ or P_g^2 / e^s	4049.0	4088.4					
11	P_c or P_g	2012.2	2022.0					
12	$P_c = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2321.1	2326.0					
13	$P_r = (P/P_{cr})$	3.42	3.43					
14	$T_r = (T/T_{cr})$	1.63	1.63					
15	Z (Table XI)	.830	.830					