

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_b)

COMPANY Newbourne Oil Co LEASE Federal 5 WELL NO. 1 DATE 27E
LOCATION: Unit 21 Section 21 Township 18S Range 27E
L 9432 H 9432 L/H 1.000 G 0.592 %CO₂ 0.02 %N₂ 0.61 %H₂S 0

GH 5583 P_{cr} 671 T_{cr} 351
TABLE IX & X TABLE IX & X

LINE		1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534							
2	$T_s(B.H. \cdot R)$	611							
3	$T = (\frac{T_w + T_s}{2})$	572.5							
4	Z (Est.)	0.815	0.851						
5	TZ	466.6	487.2						
6	GH/TZ	11.965	11.459						
7	e^s (Table XIV)	1.566	1.537						
8	P_f or P_g	1874	1874						
9	P_f^2 or P_g^2	3511	3511						
10	$P_c^2 = P_f^2/e^s$ or P_g^2/e^s	2242	2284						
11	P_c or P_g	1497.5	1511.6	= P_c					
12	P_c or P_g or $(\frac{P_c + P_f}{2})$	1685.8	1672.8						
13	$P_r = (P/P_{cr})$	2.51	2.52						
14	$T_r = (T/T_{cr})$	1.63	1.63						
15	Z (Table XI)	0.851	0.851						