

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

Flow Rate No. 5

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Gulf Oil Corporation LEASE Helbing Fed. Gas (Comm) WELL NO. 1 DATE May 23, 1966

LOCATION: Unit F Section 15 Township 22 S Range 23 E

L 7150 H 7150 L/H 1.000 G .680 % CO₂ 0.51 % N₂ 0.90 % H₂S 0.37

GH 4862 P_{cr} 669 T_{cr} 385
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T_w (W.H. °R)	534						
2	T_s (B.H. °R)	612						
3	$T = \frac{T_w + T_s}{2}$	573						
4	Z (Est.)	.766						
5	TZ	439						
6	GH/TZ	11.075						
7	e^S (Table XIV)	1.515						
8	P_f or P_s	2775						
9	P_f^2 or P_s^2	7700.6						
10	$P_c^2 = P_f^2 / e^S$ or $P_w^2 = P_s^2 / e^S$	5082.9						
11	P_c or P_w	2254						
12	$P = \frac{P_w + P_s}{2}$ or $(\frac{P_c + P_f}{2})$	2515						
13	$P_r = (P / P_{cr})$	3.76						
14	$T_r = (T / T_{cr})$	1.49						
15	Z (Table XI)	.766						