

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_x)

COMPANY Gulf Oil Corp. LEASE East Hat Mesa WELL NO. 1 DATE 9-16-81

LOCATION: Unit 14394 Section 7 Township 21S Range 33E

L 14394 H 14394 L/H 1.000 G mix .666 % CO₂ .82 % N₂ .27 % H₂S .06 gr.

GH 9586 P_{cr} 669 T_{cr} 382

TABLE IX & X

S.I.P.

LINE		1	2	3	4	5	6	7	8
1	$T_w(W.H. \text{ } ^\circ R)$	534	534						
2	$T_s(R.H. \text{ } ^\circ R)$	678	678						
3	$T = \frac{T_w + T_s}{2}$	606	606						
4	Z (Est.)	1.141	1.065						
5	TZ	691.4	645.4						
6	GH/TZ	13.864	14.853						
7	e^S (Table XIV)	1.682	1.745						
8	P_f or P_s	6803.2	6803.2						
9	P_f^2 or P_s^2	46283.5	46283.5						
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	27519.3	26517.3						
11	P_c or P_w	5245.9	*5149.5						
12	$P = \frac{P_w + P_s}{2}$ or $\left(\frac{P_c + P_f}{2}\right)$	6024.5	5976.4						
13	$P_r = (P/P_{cr})$	9.01	8.93						
14	$T_r = (T/T_{cr})$	1.59	1.59						
15	Z (Table XI)	1.065	1.060						