

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

Form O-123F
Adopted 9-1-85

FROM KNOWN BOTTOM HOLE PRESSURE ($P_{T or P_s}$)

COMPANY Phillips Petroleum Co. LEASE Lusk Deepwater WELL NO. 5 DATE 6-13-89

LOCATION: Unit I Section 19 Township 19S Range 22E

L 11660 H 11660 LH 1000 G 0.682 % CO₂ .13 % N₂ 2.85 % H₂S 0

(11660)

GH 2882.12 P_{CT} 666 T_{CT} 225

NO SURFACE CALCULATED

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534					
2	$T_s(B.H. \cdot R)$	651	651					
3	$T = \frac{T_w + T_s}{2}$	592.5	592.5					
4	Z (Est.)	.823	.816					
5	TZ	487.6	482.4					
6	GH/TZ	16.307	16.047					
7	e^s (Table XIV)	1.843	1.532					
8	P_{wf} or P_s	2843.2	2843.2					
9	P_{wf}^2 or P_s^2	8083.7	8083.7					
10	$P_c^2 = P_{wf}^2/e^s$ or $P_w^2 = P_s^2/e^s$	4385.5	4362.6					
11	P_{wf} or P_w	2094.1	2088.6					
12	$P_c \cdot \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	2468.6	2468.6					
13	$P_T = (P/P_{CT})$	3.00	3.00					
14	$T_T = (T/T_{CT})$	1.56	1.56					
15	Z (Table XI)	.816	.816					