

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

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_{fs})

COMPANY V.H. Westbrook LEASE Grandi WELL NO. 1 DATE 7-13-83

LOCATION: Unit F Section 22 Township 22S Range 27E

L 9572 H 9572 L/H 1.000 G .6739 % CO₂ 0.445 % N₂ 0.881 % H₂S

GH 6451 P_{cr} 669 T_{cr} 382

SIP

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534						
2	$T_s(B.H. \cdot R)$	630						
3	$T = \frac{T_w + T_s}{2}$	582						
4	Z (Est.)	1,050						
5	TZ	611						
6	GH/TZ	10,556						
7	e^S (Table XIV)	1.486						
8	P_f or P_s	5930.2						
9	P_f^2 or P_s^2	35,167.3						
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	23,671.4						
11	P_c or P_w	4865.3						
12	$P_c \cdot \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	5397.8						
13	$P_f = (P/P_{cr})$	8.07						
14	$T_f = (T/T_{cr})$	1.52						
15	Z (Table XI)	.996						