

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_i or P_g)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_i or P_g)

COMPANY OXY USA, INC. LEASE BRANTLEY A WELL NO. 1 DATE 8-17-89

LOCATION: Unit Section 7 Township 23-S Range 28-E
L 11127 H 11127 LH 1000 G 605 %CO₂ .44 %N₂ 1.64 %H₂S 0

(STATIC BNP CONVERTED TO SURF PRESS) GH 6731.8 P_{cr} 670 T_{cr} 355
TABLE 12.8 TABLE 12.8

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. • R)	534	534					
2	T _s (B.H. • R)	645	645					
3	T = $\frac{T_w + T_s}{2}$	589.5	589.5					
4	Z (Est.)	1.161	1.102	1.103				
5	TZ	684.4	649.6					
6	GH/TZ	9.835	10.362					
7	e ^s (Table XIV)	1.446	1.424					
8	P _i or P _g	2024.2	2024.2					
9	P _i ² or P _g ²	49339.4	49339.4					
10	P _c ² = P _i ² /e ^s or P _w ² = P _g ² /e ^s	3419.7	33452.5					
11	P _c or P _w	5841.2	5783.8					
12	P _i = $\sqrt{\frac{P_w + P_s}{2}}$ or $\sqrt{\frac{P_c + P_i}{2}}$	6432.7	6904.0					
13	P _i = (P/P _{cr})	9.60	9.56					
14	T _i = (T/T _{cr})	1.66	1.66					
15	Z (Table XI)	1.102	1.102					

* STATIC BNP (NGL, TO SURFACE)