

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_{cs})

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

COMPANY Penroc LEASE Duro Fed. Co. WELL NO. 2 DATE 10-22-79

LOCATION: Unit 11173 Section 11173 Township 1.000 Range 607

L 11173 H 11173 LH 1.000 G 607 % CO₂ 2 % N₂ 2 % H₂S 2

GH 6782 P_{CT} 671 T_{CT} 362

S.I.P.

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	534	534					
2	T _s (B.H. °R)	646	646					
3	T = $(\frac{T_w + T_s}{2})$	590	590					
4	Z (Est.)	908	875					
5	TZ	535.7	516.3					
6	GH/TZ	12.660	13.137					
7	e ^s (Table XIV)	1.608	1.637					
8	P _f or P _s	4245.2	4245.2					
9	P _f ² or P _s ²	18021.7	18021.7					
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	11210.4	11011.5					
11	P _c or P _w	3348.2	3318.4					
12	P _c = $(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	3796.7	3781.8					
13	P _f = (P/P _{CT})	5.66	5.64					
14	T _f = (T/T _{CT})	1.63	1.63					
15	Z (Table XI)	875	874					