

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_{wh} or P_w)

COMPANY OXY USA, INC. LEASE BRANTLEY A WELL NO. 1 DATE 8-17-89
LOCATION: Unit 7 Section 7 Township 23-S Range 28-E
L 11127 H 11127 LH 1.000 G .605 %CO₂ .44 %N₂ 1.64 %H₂S 0

(FLOWING BNDS
CORRECTED TO SURFACE)
GH 6731.8 P_{cr} 670 T_{cr} 355
(*) = BNDS CORRECT TO SURFACE PRESS. (P_{slm})

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. • R)	534	534	534	534	534	534	534
2	T _s (B.H. • R)	645	645	645	645	645	645	645
3	T _e ($\frac{T_w + T_s}{2}$)	589.5	589.5	589.5	589.5	589.5	589.5	589.5
4	Z (Est.)	1.151	1.097	1.132	1.079	1.108	1.059	1.082
5	TZ	679.1	646.6	667.3	636.0	653.1	629.2	637.8
6	GH/TZ	9.912	10.409	10.087	10.583	10.306	10.783	10.554
7	e ^s (Table XIV)	1.450	1.477	1.459	1.487	1.471	1.498	1.485
8	P _{wh} or P _s	6928.2	6928.2	6723.2	6723.2	6494.2	6494.2	6209.2
9	P _{wh} or P _s ²	48000.0	48000.0	45201.4	45201.4	42174.6	42174.6	38554.1
10	P _{wh} ² = P _{wh} ² /e ^s or P _w ² = P _s ² /e ^s	33097.9	32486.8	30964.2	30394.1	28653.0	28147.1	25952.9
11	P _c or P _w	57953.0	56999.7	55644.5	53713.0	53533.0	53051.3	50944.4
12	P _c ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_j}{2}$)	6340.6	6313.9	6143.8	6118.1	5923.6	5899.7	5651.8
13	P _f = (P/P _{cr})	9.46	9.42	9.16	9.13	8.84	8.81	8.43
14	T _f = (T/T _{cr})	1.66	1.66	1.66	1.66	1.66	1.66	1.66
15	Z (Table XI)	1.097	1.097	1.079	1.079	1.059	1.059	1.035