

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

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Maralo, Inc. LEASE Butler Springs Unit WELL NO. 1 DATE September 20, 1976
 Unit P Section 2 Township 15S Range 28E
 H 9324 L/H 1.0 G .733 % CO₂ 0 % N₂ 0 % H₂S 0

GH 6834 P_{cr} 668 T_{cr} 401
TABLE IX & X

LINE	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial	1st Trial	2nd Trial
	1	2	3	4	5	6	7	8		
1	T _w (W.H. OCT 15 1976)	529	529	529	529	529	531	531		
2	T _s (B.H. O.C.C. ARTESIAL OFFICE)	610	610	610	610	610	610	610		
3	$T - \frac{T_w + T_s}{2}$	569.5	569.5	569.5	569.5	569.5	570.5	570.5		
4	Z (Est.)	.965	.893	.904	.915	.920	.931	.934		
5	TZ	550	509	515	521	524	531	533		
6	GH/TZ	12.43	13.44	13.27	13.12	13.04	12.87	12.82		
7	(Table XIV)	1.594	1.582	1.580	1.578	1.572	1.594	1.593		
8	P _f or P _s	661.2	661.2	502.2	502.2	439.2	396.2	396.2		
9	P _f or P _s ²	437	437	252	252	193	157	157		
10	$P_w^2 = P_f^2/es$ or $P_w^2 = P_s^2/es$	274	276	159	160	123	98	98		
11	P _c or P _w	523.7	525.6	399.7	400.4	350.3	313.8	313.9		
12	$\frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	592.4	593.2	450.8	451.1	394.7	355.0	355		
13	P _r = (P/P _{cr})	.89	.89	.68	.68	.59	.53	.53		
14	T _r = (T/T _{cr})	1.42	1.42	1.42	1.42	1.42	1.42	1.42		
15	(Table XI)	.893	.893	.915	.915	.926	.934	.934		

RECEIVED