

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)

COMPANY SUN OIL LEASE BRIGHT FEDERAL WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L 13519 H 13519 L/H 1 G MIX .8744 % CO₂ .330 % N₂ .422 % H₂S 0

GH 11821 P_{CT} 663 T_{CT} 448
TABLE IX & X TABLE IX & X

LINE	SHUT IN					RATE #1			RATE #2		
	1	2	3	4	5	6	7	8	6	7	8
1	T_w (W.H. °R)	532	532	532	532	532	532	532	532	532	532
2	T_s (B.H. °R)	702	702	702	702	702	702	702	702	702	702
3	$T = \frac{T_w + T_s}{2}$	618	618	618	618	618	618	618	618	618	618
4	Z (Est.)	1.068	.963	.954	1.034	.932	.921	.918	.921	1.021	.918
5	TZ	660.0	595.1	589.5	639.0	575	569	567	569	630.9	567
6	GH/TZ	17.90	19.86	26.05	18.49	20.52	20.76	20.83	20.76	18.73	20.83
7	e^S (Table XIV)	1.957	2.106	2.120	2.001	2.159	2.178	2.184	2.178	2.018	2.184
8	P_f or P_s	6039.2	6039.2	6039.2	5756.2	5756.2	5756.2	5643.2	5756.2	5643.2	5643.2
9	P_f^2 or P_s^2	36471.9	36471.9	36471.9	33133.8	33133.8	33133.8	31845.7	33133.8	31845.7	31845.7
10	$P_c^2 - P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	18632.7	17317.0	17195.7	16557.6	15347.1	15206.6	14578.3	15206.6	15773.9	14578.3
11	P_c or P_w	4316.5	4161.3	4146.7	4069.1	3917.5	3899.5	3818.1	3899.5	3971.6	3818.1
12	$P \cdot \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	5177.8	5100.2	5092.9	4912.6	4836.8	4827.8	4730.6	4827.8	4807.4	4730.6
13	$P_T = (P/P_{CT})$	7.809	7.692	7.681	7.409	7.295	7.281	7.135	7.281	7.251	7.135
14	$T_T = (T/T_{CT})$	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
15	Z (Table XI)	.963	.954	.953	.932	.921	.920	.908	.920	.918	.908

RECEIVED

JUN 10 1985

673
ROBERT J. JONES