

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

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY SUN OIL LEASE BRIGHT FEDERAL WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L H L/H G % CO₂ % N₂ % H₂S

GH P_{CT} T_{CT}

LINE		TABLE IX & X			TABLE IX & X			RATE #4		
		1	2	3	4	5	6	7	8	
1	T _w (W.H. °R)	532	532	532	532	532	532	532		
2	T _s (B.H. °R)	702	702	702	702	702	702	702		
3	T _r ($\frac{T_w + T_s}{2}$)	618	618	618	618	618	618	618		
4	Z (Est.)	.908	.994	.896	.887	.965	.869	.861		
5	TZ	561.1	614.2	553.7	548.1	596.3	537.0	532.0		
6	GH/TZ	21.065	19.243	21.348	21.564	19.821	22.011	22.215		
7	e ^s (Table XIV)	2.203	2.057	2.226	2.244	2.102	2.282	2.300		
8	P _f or P _s	5643.2	5438.2	5438.2	5438.2	5197.2	5197.2	5197.2		
9	P _f ² or P _s ²	31845.7	29574.0	29574.0	29574.0	27010.8	27010.8	27010.8		
10	P _c ² - P _f ² /es or P _w ² = P _s ² /es	14453.4	14371.8	13281.1	13173.6	12844.6	11832.0	11741.6		
11	P _r or P _w	3801.7	3791.0	3644.3	3629.5	3583.9	3439.7	3426.6		
12	P _r ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	4722.4	4614.6	4541.2	4533.8	4390.5	4318.4	4311.9		
13	P _r = (P/P _{CT})	7.122	6.960	6.849	6.838	6.622	6.5135	6.503		
14	T _r = (T/T _{CT})	1.37	1.37	1.37	1.37	1.37	1.37	1.37		
15	Z (Table XI)	.907	.896	.887	.886	.869	.861	.860		

RECEIVED

JUN 10 1985

OFFICE
HONORARY ATTORNEY