

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 CONOCO, INC. LEASE BRITT B WELL NO. 27 DATE 4-9-81
 LOCATION: Unit G Section 15 Township 20S Range 37E
 L 7051' H 7051' L/H 1.000 G .643 % CO₂ .40 % N₂ 2.57 % H₂S .0004

GH 4,534 P_{cr} 665 T_{cr} 364
TABLE IX & X

LINE		121 RATE			240 RATE			3RD RATE		
		1	2	3	4	5	6	7	8	
1	T _w (W.H. °R)	534	534	534	534	534	534	534	534	
2	T _s (B.H. °R)	605	605	605	605	605	605	605	605	
3	T _f = $\frac{T_w + T_s}{2}$	570	570	570	570	570	570	570	570	
4	Z (Est.)	.809	.816	.809	.816	.810	.818	.817	.817	
5	TZ	461	465	461	465	462	466	466	466	
6	GH/TZ	9.835	9.751	9.835	9.751	9.814	9.730	9.730	9.730	
7	e ^s (Table XIV)	1.446	1.441	1.446	1.441	1.445	1.440	1.440	1.440	
8	P _f or P _s	2039.2	2039.2	2035.2	2035.2	2006.2	2006.2	2006.2	2006.2	
9	P _f ² or P _s ²	4158.3	4158.3	4101.4	4101.4	4024.8	4024.8	4024.8	4024.8	
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	2875.7	2885.7	2836.4	2846.2	2785.3	2795.0	2795.0	2795.0	
11	P _c or P _w	1695.8	1698.7	1684.2	1687.1	1668.9	1671.8	1671.8	1671.8	
12	P = $\frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	1867.5	1869.0	1854.7	1856.2	1837.6	1839.0	1839.0	1839.0	
13	P _r = (P/P _{cr})	2.81	2.81	2.79	2.79	2.76	2.77	2.77	2.77	
14	T _r = (T/T _{cr})	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	
15	Z (Table XI)	.816	.816	.816	.816	.818	.817	.817	.817	