

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 State D WELL NO. 17 DATE 8-25-87
LOCATION: Unit 0 Section 15 Township 21S Range 36E
L 3573 H 3573 L/H 1.000 G 0.7045 % CO₂ 4.137 % N₂ 1.179 % H₂S 0.612

GH 2517 P_{CT} 684 T_{CT} 382
TABLE IX & X

SHUT IN														
LINE	1	2	3	4	5	6	7	8	2nd Rate					
1														
T_w (W.H. °R)	528	528	532	532	532	532	532	532						
2														
T_s (B.H. °R)	568	568	568	568	568	568	568	568						
3														
$T = \left(\frac{T_w + T_s}{2} \right)$	548	548	550	550	550	550	550	550						
4														
Z (Est.)	0.94	0.942	0.94	0.945	0.94	0.945	0.94	0.946						
5														
TZ	515	516	517	520	517	520	517	520						
6														
GH/TZ	4.867	4.878	4.868	4.840	4.868	4.840	4.868	4.840						
7														
e^S (Table XIV)	1.201	1.201	1.200	1.199	1.200	1.199	1.200	1.199						
8														
P_f or P_s	345.3	345.3	337.8	337.8	333.6	333.6	326.5	326.5						
9														
P_f^2 or P_s^2	119.23	119.23	114.11	114.11	111.29	111.29	106.60	106.60						
10														
$P_c^2 = P_f^2/es$ or $P_w^2 = P_s^2/es$	99.28	99.28	95.09	95.17	92.74	92.82	88.83	88.91						
11														
P_c or P_w	315.1	315.1	308.4	308.5	304.5	304.7	298.0	298.2						
12														
$P = \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	330.2	330.2	323.1	323.2	319.1	319.2	312.2	312.4						
13														
$P_r = (P/P_{CT})$	0.48	0.48	0.47	0.47	0.47	0.47	0.46	0.46						
14														
$T_r = (T/T_{CT})$	1.43	1.43	1.44	1.44	1.44	1.44	1.44	1.44						
15														
Z (Table XI)	0.942	0.942	0.945	0.945	0.945	0.945	0.946	0.946						

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