Form C-122D
Adopted 9-1-65

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

COMPANY GREAT WESTERN LEASE GLEN CLEVLAND WELL NO. 1 DATE MAY 2, 1995

LOCATION: Unit _____ Section 7 Township 15-S Range 35-E

L 12950 H 12950 L/H 1 G .1642 % CO_2 .55 % N_2 1.16 % H_2S 0

d 1.995 F_r .018231 GH 8314 P_{cr} _____ (TABLE IX & X) T_{cr} _____ (TABLE IX & X)

LINE	1ST TRIAL	2ND TRIAL								
1 Q_m	.303	.303								
2 T_w (W.H. °R)	534	534								
3 T_s (B.H. °R)	655	655								
4 $T = (\frac{T_w + T_s}{2})$	595	595								
5 Z (Est.)	.850	.979								
6 TZ	505.8	582.5								
7 GH/TZ	16.437	14.273								
8 e^S (Table XIV)	1.8522	1.7078								
9 $1-e^{-S}$ (Table XIV)	.4601	.4145								
10 P_t	90.2	90.2								
11 $P_t^2/1000$	8.136	8.136								
12 F_r (Table XV)	.01823	.01823								
13 $F_c = F_r TZ$	9.2212	10.620								
14 $F_c Q_m$	2.7970	3.2177								
15 $L/H (F_c Q_m)^2$	7.8066	10.354								
16 $F_w = L/H (F_c Q_m)^2 (1-e^{-S})$	3.5918	4.2916								
17 $P_w^2 = P_t^2 + F_w$	11.728	12.428								
18 $P_s^2 = e^S P_w^2$	21.722	21.224								
19 P_s	147.4	145.7								
20 $P = (\frac{P_t + P_s}{2})$	118.8	117.9								
21 $P_r = (P/P_{cr})$	.18	.18								
22 $T_r = (T/T_{cr})$	1.53	1.53								
23 Z (Table XI)	.979	.979								

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