

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 2/16/83

COMPANY Yates Petroleum Corporation LEASE Finley "RV" Com WELL NO. 1-Y

LOCATION: Unit K Section 34 Township 6S Range 25E

L 3760.0 H 3760.0 L/H 1.000 G .645 %O2 .13 %N2 5.38 %H2S 0.00

d 1.995 Fr .017777 GH 2425.2 Pcr 662.0 Tcr 355.6

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.154	.183	.254	.312	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	552.0	552.0	552.0	552.0	0.0
4 T=(Tw+Ts)/2	537.0	537.0	537.0	537.0	0.0
5 Z(Est.)	.895	.911	.931	.975	0.000
6 TZ	480.8	489.2	499.9	523.5	0.0
7 GH/TZ	5.044	4.957	4.851	4.633	0.000
8 e ^s (Table XIV)	1.208	1.204	1.199	1.190	0.000
9 1-e ^{-s} (Table XIV)	.172	.170	.166	.159	0.000
10 Pt	705.2	595.2	460.2	163.2	0.0
11 Pt ² /1000	497.3	354.3	211.8	26.6	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.547	8.700	8.889	9.306	0.000
14 FcQm	1.315	1.594	2.255	2.906	0.000
15 L/H(FcQm) ²	1.729	2.542	5.087	8.446	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.298	.431	.846	1.347	0.000
17 Pw ² =Pt ² +Fw	497.6	354.7	212.6	28.0	0.0
18 Ps ² =e ^s Pw ²	601.2	427.1	255.0	33.3	0.0
19 Ps	775.4	653.5	505.0	182.5	0.0
20 P=(Pt+Ps)/2	740.3	624.4	482.6	172.8	0.0
21 Pr=(P/Pcr)	1.12	.94	.73	.26	0.00
22 Tr=(T/Tcr)	1.51	1.51	1.51	1.51	0.00
23 Z(Table XI)	.895	.911	.931	.975	0.000