

Adopted 9-1-65

DATE 9/14/83

COMPANY Yates Petroleum Corporation LEASE BosqueGrandeSOFedCm WELL NO. 1

LOCATION: Unit A Section 8 Township 7S Range 26E

L 3770.0 H 3770.0 L/H 1.000 G .641 %O2 .02 %N2 4.76 %H2S 0.00

d 1.995 Fr .017777 GH 2416.6 Pcr 662.7 Tcr 356.2

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.212	.263	.324	.365	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	561.0	561.0	561.0	561.0	0.0
4 T=(Tw+Ts)/2	541.5	541.5	541.5	541.5	0.0
5 Z(Est.)	.882	.891	.901	.921	0.000
6 TZ	477.4	482.4	487.9	496.9	0.0
7 GH/TZ	5.062	5.009	4.953	4.844	0.000
8 e ^s (Table XIV)	1.209	1.207	1.204	1.199	0.000
9 1-e ^{-s} (Table XIV)	.173	.171	.169	.166	0.000
10 Pt	827.2	757.2	683.2	538.2	0.0
11 Pt ² /1030	684.3	573.4	466.8	289.7	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.492	8.581	8.677	8.869	0.000
14 FcQm	1.802	2.255	2.815	3.234	0.000
15 L/H(FcQm) ²	3.248	5.086	7.926	10.457	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.561	.871	1.343	1.737	0.000
17 Pw ² =Pt ² +Fw	684.8	574.2	468.1	291.4	0.0
18 Ps ² =e ^s Pw ²	827.9	692.8	563.6	349.4	0.0
19 Ps	909.9	832.4	750.7	591.1	0.0
20 P=(Pt+Ps)/2	868.5	794.8	717.0	564.7	0.0
21 Pr=(P/Pcr)	1.31	1.20	1.08	.85	0.00
22 Tr=(T/Tcr)	1.52	1.52	1.52	1.52	0.00
23 Z(Table XI)	.882	.891	.901	.921	0.000