

Adopted 9-1-65

DATE 8/25/83

COMPANY Yates Petroleum Corporation LEASE Teckla "MD" Federal WELL NO. 1

LOCATION: Unit I Section 12 Township 6S Range 25E

L 3842.0 H 3842.0 L/H 1.000 G .644 %CO2 .01 %N2 5.29 %H2S 0.00

d 1.995 Fr .017777 GH 2474.2 Pcr 661.7 Tcr 355.7

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.279	.341	.405	.451	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	570.0	570.0	570.0	570.0	0.0
4 T=(Tw+Ts)/2	546.0	546.0	546.0	546.0	0.0
5 Z(Est.)	.898	.903	.908	.915	0.000
6 TZ	490.5	493.2	495.6	499.5	0.0
7 GH/TZ	5.044	5.016	4.992	4.953	0.000
8 e ^s (Table XIV)	1.208	1.207	1.206	1.204	0.000
9 1-e ^{-s} (Table XIV)	.172	.171	.171	.169	0.000
10 Pt	727.2	689.2	656.2	603.2	0.0
11 Pt ² /1030	528.8	475.0	430.6	363.9	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.720	8.768	8.814	8.883	0.000
14 FcQm	2.433	2.990	3.572	4.010	0.000
15 L/H(FcQm) ²	5.918	8.939	12.757	16.079	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	1.020	1.533	2.177	2.725	0.000
17 Pw ² =Pt ² +Fw	529.8	476.5	432.8	366.6	0.0
18 Ps ² =e ^s Pw ²	640.2	575.2	521.8	441.4	0.0
19 Ps	800.1	758.4	722.4	664.4	0.0
20 P=(Pt+Ps)/2	763.7	723.8	689.3	633.8	0.0
21 Pr=(P/Pcr)	1.15	1.09	1.04	.96	0.00
22 Tr=(T/Tcr)	1.54	1.54	1.54	1.54	0.00
23 Z(Table XI)	.898	.903	.908	.915	0.000