

Adopted 9-1-65

DATE 4/26/88

COMPANY Yates Petroleum Corporation LEASE Sylvester ABC Com WELL NO. 1

LOCATION: Unit P Section 8 Township 18S Range 25E

L 8319.0 H 8319.0 L/H 1.000 G .601 %CO2 1.34 %N2 .31 %H2S 0.00

d 2.441 Fr .010495 GH 4999.7 Pcr 677.2 Tcr 353.2

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.220	.249	.299	.382	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	622.0	622.0	622.0	622.0	0.0
4 T=(Tw+Ts)/2	572.0	572.0	572.0	572.0	0.0
5 Z(Est.)	.858	.865	.902	.943	0.000
6 TZ	490.6	495.0	516.0	539.6	0.0
7 GH/TZ	10.191	10.099	9.689	9.266	0.000
8 e ^s (Table XIV)	1.465	1.460	1.438	1.415	0.000
9 1-e ^{-s} (Table XIV)	.318	.315	.305	.294	0.000
10 Pt	1368.2	1260.2	850.2	473.2	0.0
11 Pt ² /1000	1872.0	1588.1	722.8	223.9	0.0
12 Fr(Table XV)	.010495	.010495	.010495	.010495	0.000000
13 Fc=FrTZ	5.149	5.196	5.415	5.663	0.000
14 FcQm	1.134	1.296	1.620	2.163	0.000
15 L/H(FcQm) ²	1.287	1.679	2.624	4.680	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.409	.529	.799	1.374	0.000
17 Pw ² =Pt ² +Fw	1872.4	1588.6	723.6	225.3	0.0
18 Ps ² =e ^s Pw ²	2743.9	2320.1	1040.7	318.9	0.0
19 Ps	1656.5	1523.2	1020.1	564.7	0.0
20 P=(Pt+Ps)/2	1512.3	1391.7	935.2	519.0	0.0
21 Pr=(P/Pcr)	2.23	2.05	1.38	.77	0.00
22 Tr=(T/Tcr)	1.62	1.62	1.62	1.62	0.00
23 Z(Table XI)	.858	.865	.902	.943	0.000