

Adopted 9-1-65

DATE 8/11/83

COMPANY Yates Petroleum Corporation LEASE Benson Deep Unit WELL NO. 3LOCATION: Unit B Section 33 Township 18S Range 30EL 11807.0 H 11807.0 L/H 1.000 G .770 %CO₂ .60 %H₂ .58 %H₂S 0.00d 2.441 Fr .010495 GH 9094.3 Pcr 667.7 Tcr 343.3

LINE		1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm		.748	.859	.960	1.153	0.000
2 Tw(W.H.°R)		522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)		638.0	638.0	638.0	638.0	0.0
4 T=(Tw+Ts)/2		580.0	580.0	580.0	580.0	0.0
5 Z(Est.)		.864	.860	.859	.864	0.000
6 TZ		501.1	498.7	498.4	500.9	0.0
7 GH/TZ		18.147	18.238	18.247	18.157	0.000
8 e ^s (Table XIV)		1.975	1.982	1.982	1.976	0.000
9 1-e ^{-s} (Table XIV)		.494	.495	.496	.494	0.000
10 Pt		2363.2	2168.2	1796.2	1601.2	0.0
11 Pt ² /1030		5584.7	4701.1	3226.3	2563.8	0.0
12 Fr(Table XV)		.010495	.010495	.010495	.010495	0.000000
13 Fc=FrTZ		5.259	5.233	5.231	5.257	0.000
14 FcQm		3.937	4.494	5.021	6.059	0.000
15 L/H(FcQm) ²		15.497	20.198	25.210	36.714	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})		7.650	10.005	12.493	18.130	0.000
17 Pw ² =Pt ² +Fw		5592.4	4711.1	3238.8	2582.0	0.0
18 Ps ² =e ^s Pw ²		11044.3	9335.7	6420.4	5100.9	0.0
19 Ps		3323.3	3055.4	2533.9	2258.5	0.0
20 P=(Pt+Ps)/2		2843.3	2611.8	2165.0	1929.9	0.0
21 Pr=(P/Pcr)		4.26	3.91	3.24	2.89	0.00
22 Tr=(T/Tcr)		1.69	1.69	1.69	1.69	0.00
23 Z(Table XI)		.864	.860	.859	.864	0.000

