

DATE 4/4/89

COMPANY Yates Petroleum Corporation LEASE Sacra SA Com WELL NO. 7-2LOCATION: Unit P Section 22 Township 6S Range 25EL 3602.0 H 3602.0 L/H 1.000 G .640 %CO₂ .04 %N₂ 4.61 %H₂S 0.00d 1.995 Fr .017777 GH 2305.3 Pcr 663.1 Tcr 356.2

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.654	.859	1.000	1.069	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	558.0	558.0	558.0	558.0	0.0
4 T=(Tw+Ts)/2	540.0	540.0	540.0	540.0	0.0
5 Z(Est.)	.902	.907	.915	.918	0.000
6 TZ	487.3	489.8	493.9	495.6	0.0
7 GH/TZ	4.731	4.707	4.667	4.652	0.000
8 e ^s (Table XIV)	1.194	1.193	1.191	1.191	0.000
9 1-e ^{-s} (Table XIV)	.163	.162	.161	.160	0.000
10 Pt	665.2	631.2	575.2	553.2	0.0
11 Pt ² /1000	442.5	398.4	330.9	306.0	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.663	8.710	8.783	8.811	0.000
14 FcQm	5.663	7.480	8.784	9.417	0.000
15 L/H(FcQm) ²	32.074	55.945	77.160	88.677	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	5.214	9.049	12.386	14.192	0.000
17 Pw ² =Pt ² +Fw	447.7	407.5	343.2	320.2	0.0
18 Ps ² =e ^s Pw ²	534.6	486.1	408.9	381.2	0.0
19 Ps	731.2	697.2	639.4	617.4	0.0
20 P=(Pt+Ps)/2	698.2	664.2	607.3	585.3	0.0
21 Pr=(P/Pcr)	1.05	1.00	.92	.88	0.00
22 Tr=(T/Tcr)	1.52	1.52	1.52	1.52	0.00
23 Z(Table XI)	.902	.907	.915	.918	0.000