

Adopted 9-1-65

DATE 1/17/84

COMPANY Yates Petroleum Corporation LEASE LILLIE "RB" FEDERAL WELL NO. 2

LOCATION: Unit F Section 5s Township 24E Range 14

L 3620.0 H 3620.0 L/H 1.000 G .654 %CO₂ .02 %N₂ 6.45 %H₂S 0.00

d 1.995 Fr .017777 GH 2367.5 Pcr 659.4 Tcr 355.7

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.672	.808	1.053	1.258	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	556.0	556.0	556.0	556.0	0.0
4 T=(Tw+Ts)/2	539.0	539.0	539.0	539.0	0.0
5 Z(Est.)	.885	.894	.901	.917	0.000
6 TZ	477.3	482.1	485.8	494.1	0.0
7 GH/TZ	4.961	4.911	4.873	4.792	0.000
8 e ^s (Table XIV)	1.204	1.202	1.201	1.197	0.000
9 1-e ^{-s} (Table XIV)	.170	.168	.167	.164	0.000
10 Pt	782.2	716.2	664.2	553.2	0.0
11 Pt ² /1030	611.8	512.9	441.2	306.0	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.484	8.570	8.636	8.785	0.000
14 FcQm	5.705	6.925	9.090	11.055	0.000
15 L/H(FcQm) ²	32.542	47.955	82.626	122.208	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	5.524	8.066	13.800	20.097	0.000
17 Pw ² =Pt ² +Fw	617.4	521.0	455.0	326.1	0.0
18 Ps ² =e ^s Pw ²	743.6	626.4	546.2	390.3	0.0
19 Ps	862.3	791.4	739.0	624.7	0.0
20 P=(Pt+Ps)/2	822.3	753.8	701.6	589.0	0.0
21 Pr=(P/Pcr)	1.25	1.14	1.06	.89	0.00
22 Tr=(T/Tcr)	1.52	1.52	1.52	1.52	0.00
23 Z(Table XI)	.885	.894	.901	.917	0.000