

Adopted 9-1-65

DATE 4/4/89

COMPANY Yates Petroleum Corporation LEASE Federal HY WELL NO. 6

LOCATION: Unit A Section 28 Township 7S Range 25E

L 3578.0 H 3578.0 L/H 1.000 G .661 %CO₂ .12 %N₂ 7.80 %H₂S 0.00

d 1.995 Fr .017777 GH 2365.1 Pcr 657.3 Tcr 354.1

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	.216	.264	.458	.581	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	560.0	560.0	560.0	560.0	0.0
4 T=(Tw+Ts)/2	541.0	541.0	541.0	541.0	0.0
5 Z(Est.)	.888	.894	.931	.969	0.000
6 TZ	480.4	483.6	503.9	524.4	0.0
7 GH/TZ	4.923	4.891	4.693	4.510	0.000
8 e ^s (Table XIV)	1.203	1.201	1.192	1.184	0.000
9 1-e ^{-s} (Table XIV)	.169	.167	.161	.156	0.000
10 Pt	788.2	744.2	472.2	213.2	0.0
11 Pt ² /1000	621.3	553.8	223.0	45.5	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	8.541	8.601	8.958	9.323	0.000
14 FcQm	1.843	2.273	4.107	5.415	0.000
15 L/H(FcQm) ²	3.398	5.169	16.865	29.327	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-s})	.573	.866	2.722	4.563	0.000
17 Pw ² =Pt ² +Fw	621.8	554.7	225.7	50.0	0.0
18 Ps ² =e ^s Pw ²	747.9	666.3	269.1	59.2	0.0
19 Ps	864.8	816.3	518.8	243.4	0.0
20 P=(Pt+Ps)/2	826.5	780.2	495.5	228.3	0.0
21 Pr=(P/Pcr)	1.26	1.19	.75	.35	0.00
22 Tr=(T/Tcr)	1.53	1.53	1.53	1.53	0.00
23 Z(Table XI)	.888	.894	.931	.969	0.000