

COMPANY Yates Petr LEASE Hedman WELL NO. 4 DATE 6-30-82
 LOCATION: Unit ✓ Section 35 Township 4S Range 24
 L 3697 H 3697 L/H 1 G 679 % CO₂ 2.97 % N₂ 6.95 % H₂S _____
 d 1.995 F_r 0.023 GH 2510 P_{cr} 669 T_{cr} 357

LINE	Rate 1	Rate 2	Rate 3	Rate 4
1 Q _m	245	332	400	485
2 T _w (W.H. °R)	520	525	522	522
3 T _s (B.H. °R)	532	528	529	525
4 T = $(\frac{T_w + T_s}{2})$	526.0	526.5	525.5	523.5
5 Z (Est.)	.847	.853	.870	.892
6 T _z	445.82	449.1	457.19	466.9
7 GH/TZ	5.634	5.589	5.490	5.375
8 e ^s (Table XIV)	1.235	1.233	1.229	1.223
9 1-e ^s (Table XIV)	.190	.189	.186	.182
10 P _L	956.2	910.2	792.2	653.2
11 P _L ² /1000	914.6	843.6	628.3	426.7
12 F _r (Table XV)	.01823	.01823	.01823	.01823
13 F _c = F _r TZ	8.122	8.187	8.334	8.515
14 F _c Q _m	1.990	2.718	3.334	4.129
15 L/H (F _c Q _m) ²	3.960	7.388	11.114	17.046
16 F _w = L/H (F _c Q _m) ² (1-e ^{-s})	.752	1.396	2.067	3.102
17 P _w ² = P _L ² + F _w	915.3	945.0	630.3	429.8
18 P _s ² = e ^s P _w ²	1130.5	1041.9	774.7	525.6
19 F _s	1063.2	1020.7	880.7	725.0
20 P = $(\frac{P_L + P_s}{2})$	1009.8	969.6	836.4	689.1
21 P _r = (P/P _{cr})	1.51	1.45	1.25	1.03
22 T _r = (T/T _{cr})	1.47	1.47	1.47	1.47
23 Z (Table XI)	.847	.853	.870	.892