

COMPANY : CHI LEASE : CARBON VALLEY WELL NO. : 1
 UNIT : SECTION : TOWNSHIP :
 L : 8541 H : 8541 L/H : 1 G/GMIX : 0.653
 %CO2 : 0.258 %N2 : 0.5 H2S : DATE :
 d : 2.441 Fr : 0.010763 GH : 5577.3 RANGE :

PC = 2382.1 PC2 = 5674.4 *
 Pt2 = 2480.6 Pw = 1579.0 *
 2102.5 1467.1 *
 1974.0 1436.9 *
 1690.0 1356.2 *

VOL 1 : 1183 PSIA 1 : 1575.0 RESV.TEMP 159.4
 VOL 2 : 2350 PSIA 2 : 1450.0
 VOL 3 : 3163 PSIA 3 : 1405.0 SHUT-IN PR= 2382.1
 VOL 4 : 4038 PSIA 4 : 1300.0

Pc2-Pw2= 3181.3 Pw2 = 2493.1 *
 3522.1 2152.3 *
 3609.8 2064.6 *
 3835.2 1839.2 *

PCR : 673
 TCR : 371

n = 1.000 *
 Pc2/(Pc2-Pw2) = 1.784 *
 1.611 *
 1.572 *
 1.480 *

| LINE | RATE 1 | | RATE 2 | | RATE 3 | | RATE 4 | |
|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| | 1ST | 2ND | 1ST | 2ND | 1ST | 2ND | 1ST | 2ND |
| QM | 1.183 | 1.183 | 2.350 | 2.350 | 3.163 | 3.163 | 4.038 | 4.038 |
| TW | 534 | 534 | 534 | 534 | 534 | 534 | 534 | 534 |
| Ts | 619.4 | 619.4 | 619.4 | 619.4 | 619.4 | 619.4 | 619.4 | 619.4 |
| T | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 | 576.7 |
| PR (est) | 2.34 | | 2.15 | | 2.09 | | 1.93 | |
| Z(est) | 0.807 | 0.795 | 0.815 | 0.802 | 0.819 | 0.805 | 0.827 | 0.812 |
| TZ | 465.2 | 458.6 | 470.2 | 462.8 | 472.2 | 464.3 | 477.1 | 468.3 |
| GH/TZ | 11.990 | 12.161 | 11.862 | 12.052 | 11.812 | 12.013 | 11.689 | 11.910 |
| eS | 1.568 | 1.578 | 1.560 | 1.571 | 1.557 | 1.569 | 1.550 | 1.563 |
| 1-e-S | 0.362 | 0.366 | 0.359 | 0.364 | 0.358 | 0.363 | 0.355 | 0.360 |
| Pt | 1575.0 | 1575.0 | 1450.0 | 1450.0 | 1405.0 | 1405.0 | 1300.0 | 1300.0 |
| Pt2 /1000 | 2480.6 | 2480.6 | 2102.5 | 2102.5 | 1974.0 | 1974.0 | 1690.0 | 1690.0 |
| Fr | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.010763 | 0.0107631 |
| Fc=FrTZ | 5.007 | 4.936 | 5.061 | 4.981 | 5.082 | 4.997 | 5.135 | 5.040 |
| FcQm | 5.92 | 5.84 | 11.89 | 11.71 | 16.07 | 15.81 | 20.74 | 20.35 |
| L/H(FcQm) | 35.1 | 34.1 | 141.4 | 137.0 | 258.4 | 249.8 | 430.0 | 414.2 |
| Fw | 12.70334 | 12.48725 | 50.78406 | 49.81844 | 92.46836 | 90.60036 | 152.6120 | 149.21361 |
| Pw2 | 2493.3 | 2493.1 | 2153.3 | 2152.3 | 2066.5 | 2064.6 | 1842.6 | 1839.2 |
| Ps2 | 3908.9 | 3933.7 | 3359.5 | 3382.1 | 3218.1 | 3239.6 | 2856.3 | 2874.7 |
| Ps | 1977.1 | 1983.4 | 1832.9 | 1839.0 | 1793.9 | 1799.9 | 1690.1 | 1695.5 |
| P | 1776.0 | 1779.2 | 1641.5 | 1644.5 | 1599.5 | 1602.4 | 1495.0 | 1497.7 |
| Pr | 2.64 | 2.64 | 2.44 | 2.44 | 2.38 | 2.38 | 2.22 | 2.23 |
| Tr | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 |
| Z | 0.795 | 0.795 | 0.802 | 0.802 | 0.805 | 0.805 | 0.812 | 0.812 |

[Pc2/Pc2-Pw2]n = 1.784 *
 1.611 *
 1.572 *
 1.480 *
 AOF= Q 2.110 *
 3.786 *
 4.972 *
 5.974 *