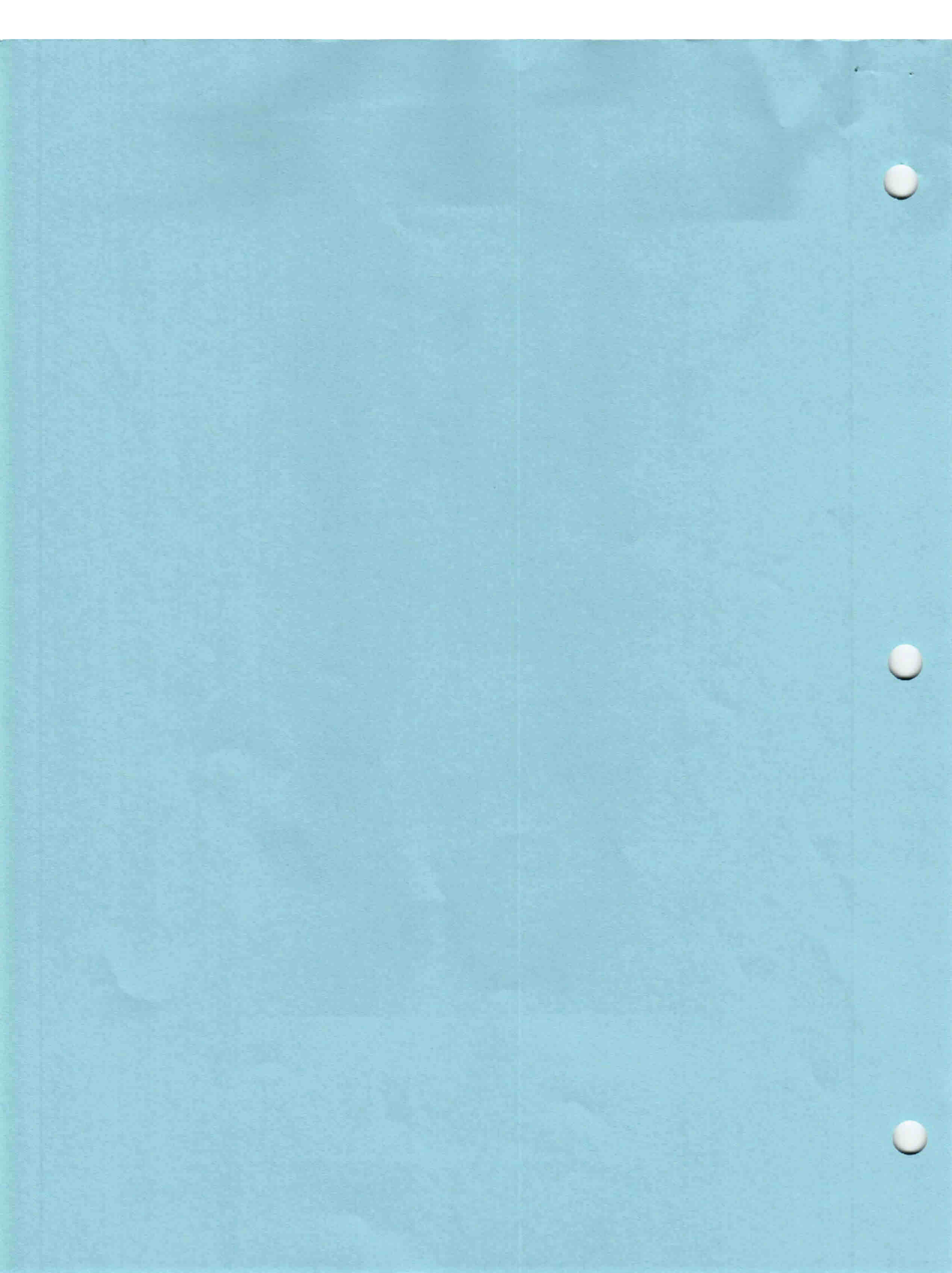

From: Baker, Kate H (UNKNOWN BUSINESS PARTNER)
To: Ammerman, Curtt N. (LANL); Dykhuizen, Ronald C; miller99@llnl.gov; Perfect, Scott A (Lawrence Livermore National Laboratory); Blankenship, Douglas A; Black, Stephen J. (LANL)
Sent: 6/11/2010 10:08:31 PM
Subject: FW: Black Oil Tables from EoS for All Temps 11June2010.xls
Attachments: Black Oil Tables from EoS for All Temps 11June2010.xls

Here, kindness of Tony Liao and Yun Wang, are the more extensive tables requested by Curtt. You now have properties for 40-degree temperature increments from 40 to 240 degrees and the gas densities. Please note that we have not provided gas property information above the bubble point as the physical meaning of such values is questionable. Mike Mason is reviewing these now. If he has any changes, I will revert. Kate

<<Black Oil Tables from EoS for All Temps 11June2010.xls>>





Document Produced Natively: Black Oil Tables from EoS for All Temps 11June2010.xls

 # PVT - Lookup Table #
 #####

Table 1

| Temperatt (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF (RB/STB) | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Z Factor |
|----------------------|--------------------|---------------------------|---------------------------|------------------------|----------------------------|----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|-------------------------|-------------|
| | | | Oil Ratio (scf/STB) | Oil FVF (RB/STB) | | | | | | | | |
| 40 | 0 | 4375.5 | 0.59 | 53.1 | 13.5387 | 0.99503 | 4.52E-06 | 0.06 | 0.0102 | 0.96099 | 0.9951 | |
| 40 | 500 | 4375.5 | 369.39 | 49.53 | 3.9517 | 1.1689 | 7.42E-06 | 2.01 | 0.0114 | 0.024171 | 0.8776 | |
| 40 | 1097 | 4375.5 | 732.92 | 47.35 | 1.2305 | 1.3169 | 9.49E-06 | 4.94 | 0.0132 | 0.009714 | 0.7619 | |
| 40 | 1695 | 4375.5 | 1066.11 | 45.62 | 0.759 | 1.4424 | 1.12E-05 | 8.66 | 0.0165 | 0.005634 | 0.6795 | |
| 40 | 2292 | 4375.5 | 1381.23 | 44.24 | 0.6194 | 1.5563 | 1.24E-05 | 12.63 | 0.0221 | 0.003994 | 0.6496 | |
| 40 | 2889 | 4375.5 | 1709.45 | 43.01 | 0.5224 | 1.6735 | 1.34E-05 | 16.14 | 0.0285 | 0.003261 | 0.6665 | |
| 40 | 3487 | 4375.5 | 2087.85 | 41.79 | 0.4182 | 1.8091 | 1.44E-05 | 19.01 | 0.035 | 0.002896 | 0.711 | |
| 40 | 4084 | 4375.5 | 2555.21 | 40.51 | 0.3392 | 1.9777 | 1.54E-05 | 21.41 | 0.0416 | 0.002694 | 0.7702 | |
| 40 | 4375.5 | 4375.5 | 2833.31 | 39.84 | 0.306 | 2.0786 | 1.60E-05 | 22.49 | 0.045 | 0.00263 | 0.8026 | |
| 40 | 4682 | 4375.5 | 2833.31 | 40.03 | 0.3117 | 2.0687 | 1.52E-05 | | | | | |
| 40 | 5279 | 4375.5 | 2833.31 | 40.38 | 0.3227 | 2.0508 | 1.38E-05 | | | | | |
| 40 | 5876 | 4375.5 | 2833.31 | 40.7 | 0.3334 | 2.0347 | 1.27E-05 | | | | | |
| 40 | 6474 | 4375.5 | 2833.31 | 41 | 0.3441 | 2.02 | 1.17E-05 | | | | | |
| 40 | 7071 | 4375.5 | 2833.31 | 41.27 | 0.3546 | 2.0065 | 1.08E-05 | | | | | |
| 40 | 7668 | 4375.5 | 2833.31 | 41.53 | 0.3649 | 1.9941 | 1.00E-05 | | | | | |
| 40 | 8266 | 4375.5 | 2833.31 | 41.77 | 0.3751 | 1.9825 | 9.35E-06 | | | | | |
| 40 | 8863 | 4375.5 | 2833.31 | 42 | 0.3851 | 1.9719 | 8.75E-06 | | | | | |
| 40 | 9461 | 4375.5 | 2833.31 | 42.21 | 0.395 | 1.9619 | 8.22E-06 | | | | | |
| 40 | 10058 | 4375.5 | 2833.31 | 42.41 | 0.4047 | 1.9526 | 7.73E-06 | | | | | |
| 40 | 10655 | 4375.5 | 2833.31 | 42.6 | 0.4142 | 1.9438 | 7.29E-06 | | | | | |
| 40 | 11253 | 4375.5 | 2833.31 | 42.79 | 0.4235 | 1.9356 | 6.90E-06 | | | | | |
| 40 | 11850 | 4375.5 | 2833.31 | 42.96 | 0.4327 | 1.9279 | 6.53E-06 | | | | | |

Table 3

| Temperatt (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF (RB/STB) | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Z Factor |
|----------------------|--------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|-------------------------|-------------|
| | | | Oil Ratio (scf/STB) | Oil Ratio (scf/STB) | | | | | | | | |
| 80 | 0 | 4988 | 0 | 0 | 52.98 | 8.4273 | 1.0051 | 5.15E-06 | 0.05 | 0.0108 | 1.0391 | 0.9957 |
| 80 | 500 | 4988 | 267.93 | 267.93 | 49.52 | 2.7038 | 1.137 | 8.20E-06 | 1.88 | 0.012 | 0.026727 | 0.8983 |
| 80 | 1097 | 4988 | 563.13 | 563.13 | 47.54 | 1.11 | 1.2659 | 1.02E-05 | 4.45 | 0.0135 | 0.01113 | 0.8081 |
| 80 | 1695 | 4988 | 838.18 | 838.18 | 45.94 | 0.7639 | 1.3763 | 1.18E-05 | 7.49 | 0.0161 | 0.006669 | 0.7446 |
| 80 | 2292 | 4988 | 1106.99 | 1106.99 | 44.59 | 0.6293 | 1.4793 | 1.31E-05 | 10.78 | 0.0199 | 0.004752 | 0.7155 |
| 80 | 2889 | 4988 | 1386.17 | 1386.17 | 43.38 | 0.5314 | 1.5839 | 1.42E-05 | 13.94 | 0.0249 | 0.003805 | 0.72 |
| 80 | 3487 | 4988 | 1698.08 | 1698.08 | 42.2 | 0.4289 | 1.7002 | 1.51E-05 | 16.74 | 0.0302 | 0.003296 | 0.7496 |
| 80 | 4084 | 4988 | 2068.22 | 2068.22 | 40.98 | 0.3533 | 1.8386 | 1.61E-05 | 19.17 | 0.0358 | 0.003002 | 0.7952 |
| 80 | 4682 | 4988 | 2535.96 | 2535.96 | 39.67 | 0.2907 | 2.0145 | 1.72E-05 | 21.36 | 0.0417 | 0.002822 | 0.8516 |
| 80 | 4988 | 4988 | 2833.31 | 2833.31 | 38.93 | 0.2615 | 2.1271 | 1.79E-05 | 22.44 | 0.0451 | 0.00276 | 0.8838 |
| 80 | 5279 | 4988 | 2833.31 | 2833.31 | 39.13 | 0.266 | 2.1163 | 1.70E-05 | | | | |
| 80 | 5876 | 4988 | 2833.31 | 2833.31 | 39.51 | 0.2752 | 2.0959 | 1.55E-05 | | | | |
| 80 | 6474 | 4988 | 2833.31 | 2833.31 | 39.86 | 0.2844 | 2.0775 | 1.41E-05 | | | | |
| 80 | 7071 | 4988 | 2833.31 | 2833.31 | 40.19 | 0.2933 | 2.0608 | 1.30E-05 | | | | |
| 80 | 7668 | 4988 | 2833.31 | 2833.31 | 40.49 | 0.3021 | 2.0455 | 1.20E-05 | | | | |
| 80 | 8266 | 4988 | 2833.31 | 2833.31 | 40.77 | 0.3108 | 2.0314 | 1.11E-05 | | | | |
| 80 | 8863 | 4988 | 2833.31 | 2833.31 | 41.03 | 0.3194 | 2.0184 | 1.04E-05 | | | | |
| 80 | 9461 | 4988 | 2833.31 | 2833.31 | 41.28 | 0.3278 | 2.0063 | 9.69E-06 | | | | |
| 80 | 10058 | 4988 | 2833.31 | 2833.31 | 41.51 | 0.3361 | 1.9951 | 9.08E-06 | | | | |
| 80 | 10655 | 4988 | 2833.31 | 2833.31 | 41.73 | 0.3442 | 1.9847 | 8.54E-06 | | | | |
| 80 | 11253 | 4988 | 2833.31 | 2833.31 | 41.93 | 0.3522 | 1.9749 | 8.05E-06 | | | | |
| 80 | 11850 | 4988 | 2833.31 | 2833.31 | 42.13 | 0.3601 | 1.9656 | 7.60E-06 | | | | |

Table 4

| Temperat (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | | Oil | | | Oil | | | Oil | | | Gas | | | Z Factor |
|---------------------|--------------------|---------------------------|---------------------------|----------------------------|----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|-------------------------|----------------------------|----------------------------------|-------------------------|----------------------------|----------------------------------|-------------------------|--|-------------|
| | | | Oil Ratio (scf/STB) | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF (RB/STB) | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | | |
| 120 | 0 | 5504.3 | 0 | 52.83 | 5.6882 | 1.0151 | 5.79E-06 | 0.05 | 0.0115 | 1.1262 | 0.9961 | | | | | | | |
| 120 | 500 | 5504.3 | 197.01 | 49.44 | 1.9389 | 1.1169 | 9.11E-06 | 1.79 | 0.0126 | 0.029219 | 0.9141 | | | | | | | |
| 120 | 1097 | 5504.3 | 442.4 | 47.57 | 1.0158 | 1.2306 | 1.11E-05 | 4.11 | 0.014 | 0.012454 | 0.8416 | | | | | | | |
| 120 | 1695 | 5504.3 | 676.16 | 46.06 | 0.75 | 1.3303 | 1.27E-05 | 6.75 | 0.0161 | 0.007618 | 0.7917 | | | | | | | |
| 120 | 2292 | 5504.3 | 909.03 | 44.75 | 0.6264 | 1.4248 | 1.40E-05 | 9.58 | 0.0191 | 0.005473 | 0.767 | | | | | | | |
| 120 | 2889 | 5504.3 | 1152.24 | 43.56 | 0.5272 | 1.5207 | 1.51E-05 | 12.39 | 0.0229 | 0.004356 | 0.7671 | | | | | | | |
| 120 | 3487 | 5504.3 | 1420.31 | 42.4 | 0.4284 | 1.6251 | 1.61E-05 | 15.02 | 0.0273 | 0.003723 | 0.7878 | | | | | | | |
| 120 | 4084 | 5504.3 | 1730.79 | 41.22 | 0.3573 | 1.7459 | 1.71E-05 | 17.39 | 0.0321 | 0.003341 | 0.8236 | | | | | | | |
| 120 | 4682 | 5504.3 | 2110.8 | 39.97 | 0.2981 | 1.8943 | 1.81E-05 | 19.56 | 0.0371 | 0.003098 | 0.8703 | | | | | | | |
| 120 | 5279 | 5504.3 | 2602.62 | 38.58 | 0.2455 | 2.0877 | 1.94E-05 | 21.61 | 0.0428 | 0.002943 | 0.9255 | | | | | | | |
| 120 | 5504.3 | 5504.3 | 2833.31 | 38.01 | 0.2269 | 2.179 | 2.00E-05 | 22.38 | 0.0453 | 0.002902 | 0.9485 | | | | | | | |
| 120 | 5876 | 5504.3 | 2833.31 | 38.28 | 0.2319 | 2.1634 | 1.87E-05 | | | | | | | | | | | |
| 120 | 6474 | 5504.3 | 2833.31 | 38.69 | 0.2399 | 2.1405 | 1.70E-05 | | | | | | | | | | | |
| 120 | 7071 | 5504.3 | 2833.31 | 39.07 | 0.2477 | 2.1198 | 1.55E-05 | | | | | | | | | | | |
| 120 | 7668 | 5504.3 | 2833.31 | 39.41 | 0.2554 | 2.1012 | 1.42E-05 | | | | | | | | | | | |
| 120 | 8266 | 5504.3 | 2833.31 | 39.74 | 0.263 | 2.0841 | 1.31E-05 | | | | | | | | | | | |
| 120 | 8863 | 5504.3 | 2833.31 | 40.04 | 0.2704 | 2.0684 | 1.22E-05 | | | | | | | | | | | |
| 120 | 9461 | 5504.3 | 2833.31 | 40.32 | 0.2778 | 2.0539 | 1.13E-05 | | | | | | | | | | | |
| 120 | 10058 | 5504.3 | 2833.31 | 40.58 | 0.285 | 2.0406 | 1.06E-05 | | | | | | | | | | | |
| 120 | 10655 | 5504.3 | 2833.31 | 40.83 | 0.292 | 2.0281 | 9.91E-06 | | | | | | | | | | | |
| 120 | 11253 | 5504.3 | 2833.31 | 41.07 | 0.299 | 2.0165 | 9.31E-06 | | | | | | | | | | | |
| 120 | 11850 | 5504.3 | 2833.31 | 41.29 | 0.3059 | 2.0057 | 8.77E-06 | | | | | | | | | | | |

Table 5

| Temperat (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | | Oil | | | Oil | | | Gas | | | Z Factor |
|---------------------|--------------------|---------------------------|---------------------------|----------------------------|----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|-------------------------|----------------------------|----------------------------------|-------------------------|--|-------------|
| | | | Oil Ratio (scf/STB) | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF (RB/STB) | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | | |

| | | | | | | | | | | | |
|-----|--------|--------|---------|-------|--------|--------|----------|-------|--------|----------|--------|
| 160 | 0 | 5934.4 | 0 | 52.65 | 4.0811 | 1.0244 | 6.41E-06 | 0.05 | 0.0121 | 1.2271 | 0.9964 |
| 160 | 500 | 5934.4 | 148.54 | 49.29 | 1.5007 | 1.1068 | 1.02E-05 | 1.72 | 0.0132 | 0.031665 | 0.9264 |
| 160 | 1097 | 5934.4 | 354.56 | 47.48 | 0.9368 | 1.2072 | 1.22E-05 | 3.86 | 0.0145 | 0.013719 | 0.867 |
| 160 | 1695 | 5934.4 | 557.09 | 46.03 | 0.7264 | 1.2985 | 1.39E-05 | 6.24 | 0.0163 | 0.008512 | 0.8271 |
| 160 | 2292 | 5934.4 | 762.06 | 44.76 | 0.6146 | 1.3863 | 1.52E-05 | 8.76 | 0.0188 | 0.006162 | 0.807 |
| 160 | 2889 | 5934.4 | 977.61 | 43.58 | 0.5129 | 1.4757 | 1.63E-05 | 11.3 | 0.0219 | 0.004901 | 0.8062 |
| 160 | 3487 | 5934.4 | 1214.13 | 42.44 | 0.4208 | 1.5722 | 1.73E-05 | 13.73 | 0.0257 | 0.00416 | 0.8222 |
| 160 | 4084 | 5934.4 | 1484.38 | 41.29 | 0.3545 | 1.6818 | 1.83E-05 | 16 | 0.0297 | 0.003698 | 0.8515 |
| 160 | 4682 | 5934.4 | 1808.61 | 40.07 | 0.2986 | 1.8135 | 1.93E-05 | 18.12 | 0.0342 | 0.003397 | 0.891 |
| 160 | 5279 | 5934.4 | 2216.59 | 38.75 | 0.249 | 1.9801 | 2.05E-05 | 20.12 | 0.0391 | 0.003195 | 0.9387 |
| 160 | 5876 | 5934.4 | 2767.71 | 37.22 | 0.2038 | 2.2074 | 2.21E-05 | 22.14 | 0.045 | 0.003065 | 0.9944 |
| 160 | 5934.4 | 5934.4 | 2833.31 | 37.06 | 0.1995 | 2.2346 | 2.22E-05 | 22.35 | 0.0457 | 0.003056 | 1.0002 |
| 160 | 6474 | 5934.4 | 2833.31 | 37.49 | 0.2059 | 2.2092 | 2.02E-05 | | | | |
| 160 | 7071 | 5934.4 | 2833.31 | 37.92 | 0.2129 | 2.184 | 1.83E-05 | | | | |
| 160 | 7668 | 5934.4 | 2833.31 | 38.32 | 0.2197 | 2.1613 | 1.67E-05 | | | | |
| 160 | 8266 | 5934.4 | 2833.31 | 38.69 | 0.2265 | 2.1407 | 1.53E-05 | | | | |
| 160 | 8863 | 5934.4 | 2833.31 | 39.03 | 0.2331 | 2.122 | 1.42E-05 | | | | |
| 160 | 9461 | 5934.4 | 2833.31 | 39.35 | 0.2396 | 2.1048 | 1.31E-05 | | | | |
| 160 | 10058 | 5934.4 | 2833.31 | 39.64 | 0.2459 | 2.0889 | 1.22E-05 | | | | |
| 160 | 10655 | 5934.4 | 2833.31 | 39.92 | 0.2522 | 2.0743 | 1.14E-05 | | | | |
| 160 | 11253 | 5934.4 | 2833.31 | 40.19 | 0.2584 | 2.0607 | 1.07E-05 | | | | |
| 160 | 11850 | 5934.4 | 2833.31 | 40.44 | 0.2645 | 2.048 | 1.00E-05 | | | | |

Table 6

| Temperat (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF | Z Factor |
|---------------------|--------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------------|------------|----------------------------|----------------------------|----------------------------------|------------|-------------|
| | | | Oil Ratio (scf/STB) | Oil Compress (1/psi) | | | | | | | | |
| 200 | 0 | 6286.6 | 0 | 52.46 | 2.9821 | 1.0331 | 7.07E-06 | 0.05 | 0.0126 | 1.3323 | 0.9967 | |
| 200 | 500 | 6286.6 | 115.69 | 49.08 | 1.2669 | 1.1042 | 1.14E-05 | 1.66 | 0.0138 | 0.034082 | 0.936 | |
| 200 | 1097 | 6286.6 | 290.06 | 47.32 | 0.8693 | 1.1931 | 1.35E-05 | 3.68 | 0.015 | 0.014946 | 0.8867 | |
| 200 | 1695 | 6286.6 | 467.75 | 45.91 | 0.6991 | 1.2773 | 1.52E-05 | 5.87 | 0.0167 | 0.00937 | 0.8544 | |
| 200 | 2292 | 6286.6 | 650.52 | 44.66 | 0.5967 | 1.3597 | 1.65E-05 | 8.17 | 0.0188 | 0.006827 | 0.8386 | |

| | | | | | | | | | | | |
|-----|--------|--------|---------|-------|--------|--------|----------|-------|--------|----------|--------|
| 200 | 2889 | 6286.6 | 844.21 | 43.5 | 0.4926 | 1.4441 | 1.77E-05 | 10.5 | 0.0215 | 0.005437 | 0.8383 |
| 200 | 3487 | 6286.6 | 1056.79 | 42.37 | 0.4093 | 1.5349 | 1.87E-05 | 12.77 | 0.0247 | 0.004601 | 0.8519 |
| 200 | 4084 | 6286.6 | 1298.07 | 41.22 | 0.3473 | 1.6371 | 1.97E-05 | 14.93 | 0.0283 | 0.004066 | 0.877 |
| 200 | 4682 | 6286.6 | 1584.09 | 40.03 | 0.2945 | 1.7581 | 2.07E-05 | 16.97 | 0.0322 | 0.003709 | 0.9115 |
| 200 | 5279 | 6286.6 | 1937.78 | 38.73 | 0.2477 | 1.9084 | 2.19E-05 | 18.93 | 0.0366 | 0.003465 | 0.9536 |
| 200 | 5876 | 6286.6 | 2402.85 | 37.26 | 0.2051 | 2.1078 | 2.34E-05 | 20.9 | 0.0418 | 0.003299 | 1.003 |
| 200 | 6286.6 | 6286.6 | 2833.31 | 36.09 | 0.1774 | 2.2944 | 2.47E-05 | 22.32 | 0.0462 | 0.003224 | 1.0419 |
| 200 | 6474 | 6286.6 | 2833.31 | 36.26 | 0.1794 | 2.284 | 2.38E-05 | | | | |
| 200 | 7071 | 6286.6 | 2833.31 | 36.75 | 0.1857 | 2.2534 | 2.15E-05 | | | | |
| 200 | 7668 | 6286.6 | 2833.31 | 37.2 | 0.1919 | 2.2261 | 1.95E-05 | | | | |
| 200 | 8266 | 6286.6 | 2833.31 | 37.62 | 0.198 | 2.2015 | 1.78E-05 | | | | |
| 200 | 8863 | 6286.6 | 2833.31 | 38 | 0.2039 | 2.1792 | 1.63E-05 | | | | |
| 200 | 9461 | 6286.6 | 2833.31 | 38.36 | 0.2098 | 2.1588 | 1.51E-05 | | | | |
| 200 | 10058 | 6286.6 | 2833.31 | 38.69 | 0.2155 | 2.1402 | 1.40E-05 | | | | |
| 200 | 10655 | 6286.6 | 2833.31 | 39.01 | 0.2212 | 2.1231 | 1.30E-05 | | | | |
| 200 | 11253 | 6286.6 | 2833.31 | 39.3 | 0.2267 | 2.1072 | 1.21E-05 | | | | |
| 200 | 11850 | 6286.6 | 2833.31 | 39.58 | 0.2322 | 2.0925 | 1.14E-05 | | | | |

Table 7

| Temperatu (deg F) | Pressure (psig) | Bubble Point (psig) | Gas | | Oil Density (lb/ft3) | Oil Viscosity (centipoise) | Oil FVF (RB/STB) | Oil Compress (1/psi) | Gas Density (lb/ft3) | Gas Viscosity (centipoise) | Gas FVF (ft3/scf) | Z Factor |
|----------------------|--------------------|---------------------------|---------------------------|-----------------|----------------------------|----------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|-------------------------|-------------|
| | | | Oil Ratio (scf/STB) | Oil Compress | | | | | | | | |
| 240 | 0 | 6568.5 | 0 | 52.21 | 2.1837 | 1.0416 | 7.81E-06 | 0.05 | 0.0132 | 1.4375 | 0.997 | |
| 240 | 500 | 6568.5 | 93.15 | 48.84 | 1.1398 | 1.1067 | 1.27E-05 | 1.62 | 0.0144 | 0.036536 | 0.9437 | |
| 240 | 1097 | 6568.5 | 242.3 | 47.1 | 0.818 | 1.1862 | 1.50E-05 | 3.54 | 0.0155 | 0.016159 | 0.9023 | |
| 240 | 1695 | 6568.5 | 399.72 | 45.7 | 0.6714 | 1.2645 | 1.67E-05 | 5.6 | 0.0171 | 0.010213 | 0.876 | |
| 240 | 2292 | 6568.5 | 564.4 | 44.47 | 0.5738 | 1.3423 | 1.81E-05 | 7.73 | 0.019 | 0.007481 | 0.8638 | |
| 240 | 2889 | 6568.5 | 740.46 | 43.31 | 0.4705 | 1.4227 | 1.93E-05 | 9.9 | 0.0214 | 0.005968 | 0.8646 | |
| 240 | 3487 | 6568.5 | 934.25 | 42.19 | 0.3956 | 1.5093 | 2.03E-05 | 12.03 | 0.0242 | 0.005043 | 0.8771 | |
| 240 | 4084 | 6568.5 | 1153.73 | 41.05 | 0.3374 | 1.6064 | 2.13E-05 | 14.09 | 0.0274 | 0.004441 | 0.8996 | |
| 240 | 4682 | 6568.5 | 1412.23 | 39.85 | 0.2875 | 1.7206 | 2.24E-05 | 16.06 | 0.0309 | 0.004032 | 0.9305 | |
| 240 | 5279 | 6568.5 | 1728.6 | 38.57 | 0.2432 | 1.8607 | 2.36E-05 | 17.98 | 0.0349 | 0.003746 | 0.9685 | |

| | | | | | | | | | | | |
|-----|--------|--------|---------|-------|--------|--------|----------|-------|--------|----------|--------|
| 240 | 5876 | 6568.5 | 2138.01 | 37.13 | 0.2029 | 2.0435 | 2.50E-05 | 19.9 | 0.0396 | 0.003548 | 1.0133 |
| 240 | 6474 | 6568.5 | 2716.29 | 35.42 | 0.165 | 2.3053 | 2.70E-05 | 21.97 | 0.0457 | 0.003421 | 1.0663 |
| 240 | 6568.5 | 6568.5 | 2833.31 | 35.11 | 0.1591 | 2.3589 | 2.74E-05 | 22.32 | 0.0469 | 0.003407 | 1.0757 |
| 240 | 7071 | 6568.5 | 2833.31 | 35.57 | 0.1641 | 2.3282 | 2.49E-05 | | | | |
| 240 | 7668 | 6568.5 | 2833.31 | 36.08 | 0.1697 | 2.2955 | 2.25E-05 | | | | |
| 240 | 8266 | 6568.5 | 2833.31 | 36.54 | 0.1753 | 2.2663 | 2.04E-05 | | | | |
| 240 | 8863 | 6568.5 | 2833.31 | 36.97 | 0.1808 | 2.2401 | 1.87E-05 | | | | |
| 240 | 9461 | 6568.5 | 2833.31 | 37.37 | 0.1861 | 2.2162 | 1.72E-05 | | | | |
| 240 | 10058 | 6568.5 | 2833.31 | 37.74 | 0.1913 | 2.1945 | 1.59E-05 | | | | |
| 240 | 10655 | 6568.5 | 2833.31 | 38.08 | 0.1965 | 2.1746 | 1.47E-05 | | | | |
| 240 | 11253 | 6568.5 | 2833.31 | 38.41 | 0.2015 | 2.1563 | 1.37E-05 | | | | |
| 240 | 11850 | 6568.5 | 2833.31 | 38.71 | 0.2065 | 2.1393 | 1.28E-05 | | | | |