

329239

Data Recorded at time 18:22 Date Oct 14 85 171

| F#  | TIME | DEPTH<br>m | ROP<br>m/hr | TORQUE |      | RPM<br>AVG | JOB<br>AVG | PUMP<br>PRES | RTRNS<br>DEPTH | MV lb/gal |      | FLOW/MIN |     | TEMP (C)<br>IN OUT | PVT  | THIS BIT |        |     | EST<br>TV | DXC  | NK   | NXB  | ECD  | EST<br>F4 PR |      |      |      |
|-----|------|------------|-------------|--------|------|------------|------------|--------------|----------------|-----------|------|----------|-----|--------------------|------|----------|--------|-----|-----------|------|------|------|------|--------------|------|------|------|
|     |      |            |             | AVG    | MAX  |            |            |              |                | IN        | OUT  | IN       | OUT |                    |      | REVS     | m      | hrs |           |      |      |      |      |              | INST | RUN  |      |
| 651 | 1822 | 3264.7     | 2.27        | 3.53   | 4.10 | 88         | 42.2       | 2810         | 3260.9         | 9.67      | 9.31 | 613      | 616 | 54.0               | 55.1 | 471      | 294124 | 199 | 55.9      | 3617 | 1517 | 2.38 | 1.87 | 1.79         | 4.73 | 9.57 | 8.70 |
| 652 | 1827 | 3265.0     | 3.74        | 3.54   | 4.12 | 88         | 42.7       | 2820         | 3261.0         | 9.66      | 9.31 | 614      | 625 | 53.8               | 55.2 | 468      | 294575 | 199 | 56.0      | 1560 | 1516 | 2.39 | 1.73 | 1.65         | 4.73 | 9.59 | 8.70 |
| 653 | 1833 | 3265.3     | 2.98        | 3.72   | 4.14 | 88         | 43.3       | 2810         | 3261.3         | 9.64      | 9.27 | 613      | 606 | 53.8               | 55.4 | 468      | 295109 | 199 | 56.1      | 3311 | 1517 | 2.39 | 1.80 | 1.72         | 4.73 | 9.62 | 8.70 |
| 654 | 1839 | 3265.6     | 3.02        | 3.54   | 4.08 | 88         | 42.7       | 2830         | 3261.5         | 9.65      | 9.27 | 614      | 645 | 53.9               | 55.0 | 464      | 295613 | 200 | 56.2      | 1620 | 1517 | 2.39 | 1.79 | 1.70         | 4.73 | 9.63 | 8.70 |
| 655 | 1846 | 3265.9     | 2.44        | 3.47   | 4.05 | 88         | 43.3       | 2830         | 3261.7         | 9.64      | 9.28 | 614      | 634 | 54.0               | 55.0 | 462      | 296269 | 200 | 56.3      | 2195 | 1517 | 2.40 | 1.85 | 1.77         | 4.73 | 9.65 | 8.70 |
| 656 | 1852 | 3266.2     | 3.55        | 3.54   | 4.08 | 87         | 43.3       | 2750         | 3261.9         | 9.64      | 9.27 | 608      | 617 | 54.1               | 55.2 | 458      | 296736 | 200 | 56.4      | 1687 | 1517 | 2.40 | 1.74 | 1.66         | 4.73 | 9.67 | 8.70 |
| 657 | 1900 | 3266.5     | 2.17        | 3.83   | 4.63 | 87         | 43.6       | 2750         | 3262.1         | 9.61      | 9.27 | 605      | 620 | 54.3               | 54.6 | 459      | 297434 | 201 | 56.5      | 1838 | 1518 | 2.41 | 1.88 | 1.80         | 4.73 | 9.69 | 8.70 |
| 658 | 1905 | 3266.8     | 3.40        | 4.39   | 4.66 | 87         | 43.1       | 2820         | 3262.2         | 9.61      | 9.27 | 613      | 626 | 54.3               | 54.6 | 458      | 297901 | 201 | 56.6      | 1300 | 1518 | 2.41 | 1.74 | 1.66         | 4.73 | 9.69 | 8.70 |
| 659 | 1910 | 3267.2     | 3.66        | 4.39   | 4.70 | 87         | 43.0       | 2820         | 3262.4         | 9.61      | 9.25 | 613      | 630 | 54.4               | 55.5 | 455      | 298345 | 201 | 56.7      | 1501 | 1518 | 2.41 | 1.72 | 1.64         | 4.73 | 9.70 | 8.70 |
| 660 | 1919 | 3267.5     | 2.07        | 4.29   | 4.65 | 87         | 44.4       | 2820         | 3262.7         | 9.60      | 9.26 | 613      | 644 | 54.5               | 55.4 | 454      | 299093 | 201 | 56.8      | 2214 | 1519 | 2.42 | 1.90 | 1.82         | 4.74 | 9.70 | 8.70 |
| 661 | 1923 | 3267.8     | 4.62        | 4.11   | 4.50 | 87         | 42.6       | 2810         | 3262.9         | 9.59      | 9.26 | 612      | 597 | 54.5               | 55.1 | 450      | 299437 | 202 | 56.9      | 1078 | 1519 | 2.42 | 1.65 | 1.57         | 4.74 | 9.71 | 8.70 |
| 662 | 1927 | 3268.1     | 4.39        | 4.20   | 4.47 | 87         | 44.1       | 2820         | 3263.1         | 9.63      | 9.28 | 613      | 596 | 54.6               | 55.2 | 453      | 299800 | 202 | 57.0      | 1090 | 1518 | 2.42 | 1.68 | 1.60         | 4.74 | 9.71 | 8.70 |
| 663 | 1934 | 3268.4     | 2.69        | 4.21   | 4.56 | 87         | 43.8       | 2810         | 3263.4         | 9.63      | 9.31 | 612      | 581 | 54.5               | 55.1 | 450      | 300397 | 202 | 57.1      | 2471 | 1519 | 2.43 | 1.81 | 1.73         | 4.74 | 9.72 | 8.70 |
| 664 | 1941 | 3268.7     | 2.44        | 4.18   | 4.50 | 87         | 43.9       | 2820         | 3263.7         | 9.59      | 9.33 | 615      | 615 | 54.2               | 55.2 | 451      | 301045 | 203 | 57.2      | 1860 | 1519 | 2.43 | 1.84 | 1.76         | 4.74 | 9.74 | 8.70 |
| 665 | 1951 | 3269.0     | 1.88        | 4.12   | 4.45 | 83         | 43.1       | 2820         | 3264.3         | 9.60      | 9.33 | 614      | 606 | 54.0               | 55.3 | 451      | 301896 | 203 | 57.4      | 2079 | 1521 | 2.44 | 1.90 | 1.82         | 4.74 | 9.74 | 8.70 |
| 666 | 2000 | 3269.3     | 1.95        | 4.07   | 4.41 | 88         | 43.9       | 2820         | 3264.8         | 9.47      | 9.31 | 614      | 619 | 53.9               | 55.5 | 451      | 302717 | 203 | 57.5      | 2533 | 1523 | 2.44 | 1.91 | 1.82         | 4.74 | 9.73 | 8.70 |
| 667 | 2005 | 3269.6     | 3.57        | 4.10   | 4.37 | 88         | 43.7       | 2810         | 3265.1         | 9.47      | 9.30 | 612      | 601 | 53.9               | 55.7 | 447      | 303164 | 204 | 57.6      | 1478 | 1522 | 2.45 | 1.73 | 1.65         | 4.74 | 9.73 | 8.70 |
| 668 | 2013 | 3269.9     | 2.25        | 4.14   | 4.45 | 87         | 44.3       | 2810         | 3265.5         | 9.47      | 9.29 | 613      | 614 | 54.0               | 55.0 | 443      | 303867 | 204 | 57.7      | 2182 | 1523 | 2.45 | 1.87 | 1.79         | 4.74 | 9.72 | 8.70 |
| 669 | 2022 | 3270.2     | 2.20        | 4.11   | 4.45 | 87         | 44.3       | 2820         | 3265.9         | 9.44      | 9.30 | 613      | 626 | 53.9               | 55.4 | 444      | 304590 | 204 | 57.9      | 2241 | 1525 | 2.46 | 1.88 | 1.80         | 4.74 | 9.70 | 8.70 |
| 670 | 2030 | 3270.5     | 2.38        | 4.07   | 4.46 | 87         | 44.4       | 2810         | 3266.2         | 9.47      | 9.30 | 612      | 627 | 53.8               | 54.6 | 441      | 305313 | 204 | 58.0      | 2392 | 1526 | 2.46 | 1.86 | 1.78         | 4.74 | 9.69 | 8.70 |
| 671 | 2037 | 3270.8     | 2.27        | 4.05   | 4.44 | 87         | 45.0       | 2810         | 3266.5         | 9.47      | 9.30 | 612      | 576 | 53.7               | 55.0 | 439      | 305954 | 205 | 58.1      | 2088 | 1526 | 2.47 | 1.89 | 1.80         | 4.74 | 9.68 | 8.70 |
| 672 | 2044 | 3271.1     | 3.17        | 4.07   | 4.47 | 87         | 44.1       | 2820         | 3266.9         | 9.48      | 9.30 | 613      | 569 | 53.7               | 54.5 | 439      | 306491 | 205 | 58.2      | 2048 | 1527 | 2.47 | 1.78 | 1.70         | 4.75 | 9.66 | 8.70 |
| 673 | 2052 | 3271.4     | 2.00        | 4.00   | 4.38 | 87         | 44.3       | 2820         | 3267.3         | 9.49      | 9.30 | 614      | 618 | 53.7               | 54.6 | 436      | 307206 | 205 | 58.4      | 2105 | 1528 | 2.48 | 1.92 | 1.83         | 4.75 | 9.65 | 8.70 |
| 674 | 2059 | 3271.7     | 2.51        | 4.09   | 4.34 | 87         | 44.8       | 2830         | 3267.7         | 9.48      | 9.30 | 614      | 621 | 53.7               | 54.9 | 433      | 307838 | 206 | 58.5      | 2271 | 1528 | 2.48 | 1.86 | 1.78         | 4.75 | 9.64 | 8.70 |
| 675 | 2110 | 3272.0     | 1.61        | 4.13   | 4.55 | 88         | 44.4       | 2820         | 3268.2         | 9.59      | 9.27 | 614      | 562 | 53.8               | 55.2 | 438      | 308765 | 206 | 58.7      | 3251 | 1530 | 2.49 | 1.99 | 1.90         | 4.75 | 9.63 | 8.70 |
| 676 | 2119 | 3272.4     | 2.15        | 4.18   | 4.59 | 87         | 43.1       | 2830         | 3268.6         | 9.62      | 9.32 | 613      | 641 | 53.8               | 54.0 | 441      | 309552 | 206 | 58.8      | 2326 | 1532 | 2.49 | 1.89 | 1.80         | 4.75 | 9.62 | 8.70 |
| 677 | 2128 | 3272.6     | 1.70        | 4.24   | 4.67 | 87         | 44.2       | 2820         | 3269.0         | 9.56      | 9.29 | 613      | 624 | 53.6               | 54.8 | 436      | 310341 | 207 | 59.0      | 2999 | 1533 | 2.50 | 1.97 | 1.89         | 4.75 | 9.61 | 8.70 |
| 678 | 2133 | 3272.9     | 3.24        | 4.27   | 4.69 | 87         | 43.9       | 2810         | 3269.2         | 9.55      | 9.31 | 613      | 597 | 53.6               | 54.3 | 427      | 310833 | 207 | 59.1      | 1436 | 1533 | 2.50 | 1.78 | 1.70         | 4.75 | 9.61 | 8.70 |
| 679 | 2143 | 3273.3     | 2.00        | 4.08   | 4.44 | 97         | 43.6       | 2830         | 3269.6         | 9.54      | 9.33 | 614      | 647 | 53.5               | 54.7 | 424      | 311662 | 207 | 59.2      | 2063 | 1535 | 2.51 | 1.92 | 1.83         | 4.75 | 9.61 | 8.70 |
| 680 | 2150 | 3273.6     | 2.55        | 2.92   | 4.40 | 87         | 38.6       | 2770         | 3269.8         | 9.53      | 9.33 | 598      | 566 | 53.5               | 54.7 | 436      | 311748 | 208 | 59.2      | 2451 | 1533 | 2.51 | 1.84 | 1.74         | 4.75 | 9.60 | 8.70 |
| 681 | 2156 | 3273.9     | 2.67        | 3.19   | 4.04 | 88         | 43.2       | 2800         | 3270.0         | 9.51      | 9.36 | 610      | 625 | 53.8               | 55.5 | 419      | 312231 | 208 | 59.3      | 2545 | 1533 | 2.51 | 1.83 | 1.75         | 4.75 | 9.61 | 8.70 |
| 682 | 2205 | 3274.2     | 2.10        | 3.51   | 4.15 | 87         | 42.9       | 2790         | 3270.3         | 9.21      | 9.33 | 610      | 636 | 53.7               | 55.2 | 382      | 313048 | 208 | 59.5      | 3260 | 1534 | 2.52 | 1.89 | 1.81         | 4.75 | 9.61 | 8.70 |
| 683 | 2212 | 3274.5     | 2.39        | 3.66   | 4.20 | 87         | 44.0       | 2780         | 3270.6         | 9.36      | 9.34 | 609      | 675 | 53.9               | 55.4 | 375      | 313658 | 208 | 59.6      | 2073 | 1535 | 2.52 | 1.87 | 1.78         | 4.75 | 9.62 | 8.70 |
| 684 | 2221 | 3274.8     | 2.06        | 3.52   | 4.29 | 86         | 43.8       | 2780         | 3271.1         | 9.36      | 9.40 | 609      | 648 | 54.1               | 55.0 | 374      | 314425 | 209 | 59.8      | 2720 | 1536 | 2.53 | 1.91 | 1.82         | 4.76 | 9.62 | 8.70 |
| 685 | 2228 | 3275.1     | 2.61        | 3.22   | 3.90 | 87         | 43.9       | 2790         | 3271.3         | 9.37      | 9.31 | 609      | 644 | 54.2               | 55.5 | 373      | 315077 | 209 | 59.9      | 2104 | 1537 | 2.53 | 1.85 | 1.76         | 4.76 | 9.60 | 8.70 |
| 686 | 2234 | 3275.4     | 3.04        | 3.30   | 4.50 | 87         | 43.6       | 2790         | 3271.6         | 9.37      | 9.29 | 609      | 650 | 54.3               | 55.6 | 370      | 315595 | 209 | 60.0      | 1727 | 1537 | 2.54 | 1.80 | 1.71         | 4.76 | 9.59 | 8.70 |
| 687 | 2238 | 3275.7     | 4.58        | 3.46   | 5.09 | 87         | 44.0       | 2800         | 3271.7         | 9.37      | 9.31 | 609      | 634 | 54.4               | 55.4 | 370      | 315905 | 210 | 60.0      | 1254 | 1536 | 2.54 | 1.69 | 1.60         | 4.76 | 9.59 | 8.70 |
| 688 | 2244 | 3276.0     | 2.84        | 3.58   | 4.10 | 87         | 44.1       | 2800         | 3271.9         | 9.38      | 9.29 | 610      | 655 | 54.5               | 55.3 | 370      | 316463 | 210 | 60.1      | 2164 | 1537 | 2.54 | 1.83 | 1.74         | 4.76 | 9.58 | 8.70 |
| 689 | 2251 | 3276.3     | 2.59        | 3.54   | 4.10 | 87         | 43.8       | 2800         | 3272.1         | 9.34      | 9.34 | 608      | 645 | 54.5               | 55.6 | 366      | 317074 | 210 | 60.3      | 2097 | 1537 | 2.55 | 1.85 | 1.77         | 4.76 | 9.57 | 8.70 |
| 690 | 2258 | 3276.6     | 2.26        | 3.58   | 4.05 | 87         | 43.5       | 2780         | 3272.4         | 9.34      | 9.33 | 608      | 631 | 54.5               | 55.3 | 367      | 317670 | 211 | 60.4      | 1965 | 1538 | 2.55 | 1.89 | 1.80         | 4.76 | 9.57 | 8.70 |
| 691 | 2309 | 3276.9     | 1.76        | 3.53   | 4.22 | 86         | 43.0       | 2790         | 3272.7         | 9.34      | 9.35 | 608      | 646 | 54.6               | 55.3 | 365      | 318566 | 211 | 60.5      | 3624 | 1539 | 2.56 | 1.95 | 1.87         | 4.76 | 9.56 | 8.70 |
| 692 | 2317 | 3277.2     | 2.40        | 3.41   | 4.02 | 87         | 44.5       | 2800         | 3273.0         | 9.33      | 9.31 | 609      | 671 | 54.7               | 55.7 | 360      | 319259 | 211 | 60.7      | 2164 | 1540 | 2.56 | 1.89 | 1.80         | 4.76 | 9.54 | 8.70 |
| 693 | 2325 | 3277.5     | 2.01        | 3.41   | 4.02 | 87         | 44.3       | 2800         | 3273.3         | 9.31      | 9.30 | 610      | 640 | 54.7               | 55.9 | 356      | 320013 | 212 | 60.8      | 2848 | 1542 | 2.57 | 1.94 | 1.85         | 4.76 | 9.52 | 8.70 |
| 694 | 2334 | 3277.8     | 2.16        | 2.96   | 3.86 | 87         | 44.2       | 2790         | 3273.9         | 9.30      | 9.28 | 610      | 622 | 54.7               | 55.6 | 352      | 320774 | 212 | 61.0      | 2549 | 1543 | 2.57 | 1.93 | 1.84         | 4.76 | 9.49 | 8.70 |
| 695 | 2342 | 3278.1     | 2.38        | 3.19   | 3.89 | 88         | 43.2       | 2800         | 3274.1         | 9.29      | 9.29 | 611      | 649 | 54.9               | 55.9 | 349      | 321439 | 212 | 61.1      | 2081 | 1544 | 2.58 | 1.89 | 1.80         | 4.76 | 9.47 | 8.70 |
| 696 | 2350 | 3278.4     | 2.05        | 3.27   | 4.00 | 87         | 44.9       | 2800         | 3274.5         | 9.28      | 9.27 | 610      | 647 | 54.9               | 55.7 | 351      | 322192 | 212 | 61.2      | 2043 | 1545 | 2.58 | 1.96 | 1.87         | 4.77 | 9.45 | 8.70 |
| 697 | 2358 | 3278.7     | 2.38        | 3.25   | 3.97 | 87         | 44.2       | 2800         | 3274.7         | 9.26      | 9.30 | 610      | 63  |                    |      |          |        |     |           |      |      |      |      |              |      |      |      |