

## EST PHASE: FLOW PERIOD # 2

| TIME<br>OF DAY<br>H:MM:SS | DATE<br>DD-MMM | ELAPSED<br>TIME, MIN | DELTA<br>TIME, MIN | BOT HOLE<br>TEMP.<br>DEG F | BOT HOLE<br>PRESSURE<br>PSIA |
|---------------------------|----------------|----------------------|--------------------|----------------------------|------------------------------|
| 3:03:37                   | 2-NOV          | 554.62               | 105.00             | 170.11                     | 249.34                       |
| 3:18:37                   | 2-NOV          | 569.62               | 120.00             | 170.11                     | 245.03                       |
| 3:33:37                   | 2-NOV          | 584.62               | 135.00             | 170.01                     | 234.76                       |
| 3:47:47                   | 2-NOV          | 598.78               | 149.16             | 169.74                     | 230.70                       |

EST PHASE: SHUTIN PERIOD # 2

 FINAL FLOW PRESSURE = 230.70 PSIA  
 PRODUCING TIME = 151.50 MIN

| TIME<br>OF DAY<br>H:MM:SS | DATE<br>DD-MMM | ELAPSED<br>TIME, MIN | DELTA<br>TIME, MIN | BOT HOLE<br>TEMP.<br>DEG F | BOT HOLE<br>PRESSURE<br>PSIA | DELTA P<br>PSI | LOG<br>HORNERS<br>TIME |
|---------------------------|----------------|----------------------|--------------------|----------------------------|------------------------------|----------------|------------------------|
| 3:47:47                   | 2-NOV          | 598.78               | 0.00               | 169.74                     | 230.70                       | 0.00           |                        |
| 3:48:47                   | 2-NOV          | 599.78               | 1.00               | 169.74                     | 284.82                       | 54.12          | 2.1833                 |
| 3:49:47                   | 2-NOV          | 600.78               | 2.00               | 169.75                     | 334.96                       | 104.26         | 1.8851                 |
| 3:50:47                   | 2-NOV          | 601.78               | 3.00               | 169.83                     | 384.02                       | 153.32         | 1.7118                 |
| 3:51:47                   | 2-NOV          | 602.78               | 4.00               | 169.97                     | 432.20                       | 201.50         | 1.5897                 |
| 3:52:47                   | 2-NOV          | 603.78               | 5.00               | 170.17                     | 480.34                       | 249.64         | 1.4955                 |
| 3:53:47                   | 2-NOV          | 604.78               | 6.00               | 170.38                     | 528.49                       | 297.79         | 1.4191                 |
| 3:54:47                   | 2-NOV          | 605.78               | 7.00               | 170.64                     | 577.00                       | 346.30         | 1.3549                 |
| 3:55:47                   | 2-NOV          | 606.78               | 8.00               | 170.92                     | 625.51                       | 394.81         | 1.2997                 |
| 3:56:47                   | 2-NOV          | 607.78               | 9.00               | 171.19                     | 674.74                       | 444.04         | 1.2512                 |
| 3:57:47                   | 2-NOV          | 608.78               | 10.00              | 171.50                     | 723.91                       | 493.21         | 1.2082                 |
| 3:59:47                   | 2-NOV          | 610.78               | 12.00              | 172.09                     | 823.67                       | 592.97         | 1.1343                 |
| 0:01:47                   | 3-NOV          | 612.78               | 14.00              | 172.71                     | 924.34                       | 693.64         | 1.0727                 |
| 0:03:47                   | 3-NOV          | 614.78               | 16.00              | 173.32                     | 1025.98                      | 795.28         | 1.0199                 |
| 0:05:47                   | 3-NOV          | 616.78               | 18.00              | 173.93                     | 1128.74                      | 898.04         | 0.9739                 |
| 0:07:47                   | 3-NOV          | 618.78               | 20.00              | 174.54                     | 1232.74                      | 1002.04        | 0.9332                 |
| 0:09:47                   | 3-NOV          | 620.78               | 22.00              | 175.14                     | 1337.28                      | 1106.58        | 0.8969                 |
| 0:11:47                   | 3-NOV          | 622.78               | 24.00              | 175.73                     | 1442.73                      | 1212.03        | 0.8641                 |
| 0:13:47                   | 3-NOV          | 624.78               | 26.00              | 176.29                     | 1548.40                      | 1317.70        | 0.8342                 |
| 0:15:47                   | 3-NOV          | 626.78               | 28.00              | 176.85                     | 1654.97                      | 1424.27        | 0.8069                 |
| 0:17:47                   | 3-NOV          | 628.78               | 30.00              | 177.39                     | 1760.26                      | 1529.56        | 0.7818                 |
| 0:22:47                   | 3-NOV          | 633.78               | 35.00              | 178.63                     | 2024.95                      | 1794.25        | 0.7266                 |
| 0:27:47                   | 3-NOV          | 638.78               | 40.00              | 179.74                     | 2285.36                      | 2054.66        | 0.6801                 |
| 0:32:47                   | 3-NOV          | 643.78               | 45.00              | 180.68                     | 2537.84                      | 2307.14        | 0.6402                 |
| 0:37:47                   | 3-NOV          | 648.78               | 50.00              | 181.49                     | 2778.47                      | 2547.77        | 0.6053                 |
| 0:42:47                   | 3-NOV          | 653.78               | 55.00              | 182.14                     | 3002.97                      | 2772.27        | 0.5746                 |
| 0:47:47                   | 3-NOV          | 658.78               | 60.00              | 182.62                     | 3208.71                      | 2978.01        | 0.5472                 |
| 0:52:47                   | 3-NOV          | 663.78               | 65.00              | 182.97                     | 3394.02                      | 3163.32        | 0.5225                 |
| 0:57:47                   | 3-NOV          | 668.78               | 70.00              | 183.15                     | 3556.93                      | 3326.23        | 0.5003                 |
| 1:02:47                   | 3-NOV          | 673.78               | 75.00              | 183.15                     | 3698.17                      | 3467.47        | 0.4800                 |
| 1:07:47                   | 3-NOV          | 678.78               | 80.00              | 183.02                     | 3818.62                      | 3587.92        | 0.4615                 |
| 1:12:47                   | 3-NOV          | 683.78               | 85.00              | 182.80                     | 3919.99                      | 3689.29        | 0.4444                 |
| 1:17:47                   | 3-NOV          | 688.78               | 90.00              | 182.39                     | 4004.02                      | 3773.32        | 0.4287                 |
| 1:22:47                   | 3-NOV          | 693.78               | 95.00              | 181.85                     | 4072.87                      | 3842.17        | 0.4141                 |
| 1:27:47                   | 3-NOV          | 698.78               | 100.00             | 181.33                     | 4128.56                      | 3897.86        | 0.4005                 |
| 1:32:47                   | 3-NOV          | 703.78               | 105.00             | 180.75                     | 4173.39                      | 3942.69        | 0.3879                 |
| 1:37:47                   | 3-NOV          | 708.78               | 110.00             | 180.21                     | 4209.22                      | 3978.52        | 0.3761                 |
| 1:42:47                   | 3-NOV          | 713.78               | 115.00             | 179.67                     | 4237.23                      | 4006.53        | 0.3650                 |
| 1:47:47                   | 3-NOV          | 718.78               | 120.00             | 179.19                     | 4259.13                      | 4028.43        | 0.3546                 |