

* BIT # 27 SMITH F4 BIT DIAMETER : 0.50 inch NOZZ 14/14/ 0 MUD RHEOLOGICAL PARAMETERS : PV = 16 YP = 10 GEL = 3 *

| | | DEPTH | | | DRILLING PARAMETERS | | | | | MUD PARAMETERS | | GAS | | OVERPRESSURE SURVEY | | | | ACCUMULATED ON BIT | | | | | | | |
|----------|-----------|---------|---------|--------|---------------------|-----|------|-------|------|----------------|---------|-------------|-------------|---------------------|------|------|-----|--------------------|------|--------|------|------|---------|-------|-----|
| TIME | MEASURED | VERTCL | LAGGED | ROP | WOB | RPM | TORG | PRESS | FLOW | PIT | DENSITY | TEMPERATURE | RESISTIVITY | GAS | DCS | NGRM | PF | ECD | FRAC | FEET | TIME | COST | | | |
| Hr:mn | feet | feet | feet | ft/h | kibs | rpm | ftlb | psi | gpm | bbls | ppg | degF | ohm | unit | | ppg | ppg | ppg | feet | Dhr | \$ | | | | |
| D * 5:47 | * 10169.5 | 10161.5 | 10147.0 | * 13.7 | * 42.5 | 56 | 2700 | 1039 | 325 | * 599 | * 9.5 | 9.6 | 85.0 | 100.0 | 1.33 | 1.33 | * 7 | * 1.67 | 2.11 | * 9.3 | 9.6 | 16.7 | * 113.5 | 8.27 | 562 |
| D * 5:48 | * 10170.1 | 10162.0 | 10147.0 | * 25.2 | * 42.3 | 0 | -100 | 1029 | 325 | * 601 | * 9.5 | 9.5 | 85.1 | 100.7 | 1.34 | 1.33 | * 7 | * 1.46 | 2.11 | * 9.3 | 9.6 | 16.7 | * 114.0 | 8.29 | 560 |
| D * 5:59 | * 10171.5 | 10162.0 | 10149.0 | * 25.2 | * 38.7 | 53 | 2600 | 1920 | 334 | * 611 | * 9.5 | 9.5 | 85.0 | 100.4 | 1.33 | 1.34 | * 7 | * 1.46 | 2.11 | * 9.3 | 9.6 | 16.7 | * 114.0 | 8.33 | 560 |
| D * 6: 5 | * 10172.5 | 10163.4 | 10151.0 | * 28.8 | * 39.9 | 53 | 2600 | 1933 | 334 | * 599 | * 9.5 | 9.5 | 84.9 | 100.4 | 1.33 | 1.33 | * 7 | * 1.35 | 2.11 | * 9.3 | 9.6 | 16.7 | * 115.4 | 8.44 | 555 |
| D * 6:10 | * 10173.1 | 10164.4 | 10154.0 | * 9.9 | * 40.2 | 53 | 2500 | 1933 | 334 | * 597 | * 9.5 | 9.6 | 85.0 | 100.1 | 1.34 | 1.32 | * 7 | * 1.70 | 2.11 | * 9.3 | 9.6 | 16.7 | * 116.4 | 8.52 | 553 |
| D * 6:17 | * 10174.2 | 10166.1 | 10156.0 | * 9.4 | * 45.6 | 51 | 2600 | 1933 | 329 | * 599 | * 9.5 | 9.9 | 85.0 | 101.3 | 1.33 | 1.32 | * 7 | * 1.83 | 2.11 | * 10.4 | 9.6 | 17.0 | * 118.1 | 8.64 | 551 |
| D * 6:23 | * 10175.1 | 10166.1 | 10157.0 | * 9.4 | * 43.1 | 51 | 2600 | 1933 | 332 | * 599 | * 9.5 | 9.5 | 85.0 | 100.2 | 1.33 | 1.35 | * 7 | * 1.83 | 2.11 | * 10.4 | 9.6 | 17.0 | * 118.1 | 8.74 | 551 |
| D * 6:33 | * 10176.2 | 10167.0 | 10161.0 | * 8.6 | * 42.1 | 51 | 2500 | 1923 | 334 | * 599 | * 9.5 | 9.6 | 84.9 | 100.4 | 1.34 | 1.33 | * 6 | * 1.89 | 2.11 | * 10.0 | 9.6 | 16.9 | * 119.0 | 8.91 | 550 |
| D * 6:41 | * 10177.3 | 10169.3 | 10162.0 | * 9.2 | * 44.7 | 53 | 2600 | 1920 | 334 | * 601 | * 9.5 | 9.6 | 85.0 | 101.3 | 1.33 | 1.32 | * 6 | * 1.85 | 2.11 | * 10.2 | 9.6 | 17.0 | * 121.3 | 9.04 | 549 |
| D * 6:47 | * 10178.2 | 10170.2 | 10163.0 | * 8.6 | * 40.0 | 53 | 2500 | 1933 | 337 | * 599 | * 9.5 | 9.6 | 85.1 | 101.2 | 1.33 | 1.33 | * 6 | * 1.90 | 2.11 | * 9.9 | 9.6 | 16.9 | * 122.2 | 9.14 | 548 |
| D * 6:53 | * 10179.1 | 10171.0 | 10164.0 | * 8.4 | * 45.1 | 54 | 2500 | 1920 | 334 | * 601 | * 9.5 | 9.5 | 85.2 | 100.6 | 1.34 | 1.34 | * 7 | * 1.93 | 2.11 | * 9.8 | 9.6 | 16.8 | * 123.0 | 9.24 | 547 |
| D * 7: 8 | * 10180.0 | 10172.0 | 10169.0 | * 3.9 | * 43.5 | 51 | 2500 | 1919 | 329 | * 601 | * 9.5 | 9.6 | 85.3 | 100.1 | 1.34 | 1.34 | * 7 | * 2.15 | 2.11 | * 9.7 | 9.6 | 16.8 | * 124.0 | 9.49 | 550 |
| D * 7:19 | * 10181.0 | 10173.0 | 10171.0 | * 5.3 | * 45.9 | 55 | 2500 | 1914 | 329 | * 605 | * 9.5 | 9.6 | 85.4 | 100.0 | 1.34 | 1.32 | * 7 | * 2.04 | 2.11 | * 9.7 | 9.6 | 16.8 | * 125.0 | 9.67 | 551 |
| D * 7:35 | * 10182.4 | 10174.3 | 10173.0 | * 5.2 | * 48.3 | 55 | 2400 | 1919 | 333 | * 625 | * 9.5 | 9.5 | 85.2 | 100.6 | 1.34 | 1.33 | * 7 | * 2.00 | 2.11 | * 9.7 | 9.6 | 16.8 | * 126.3 | 9.93 | 553 |
| D * 7:39 | * 10183.0 | 10175.0 | 10174.0 | * 8.9 | * 47.0 | 54 | 2400 | 1923 | 331 | * 625 | * 9.5 | 9.5 | 85.3 | 100.4 | 1.34 | 1.33 | * 7 | * 1.92 | 2.11 | * 9.8 | 9.6 | 16.9 | * 127.0 | 10.01 | 552 |
| D * 7:46 | * 10184.4 | 10176.3 | 10175.0 | * 11.9 | * 48.4 | 53 | 2500 | 1919 | 334 | * 627 | * 9.5 | 9.5 | 85.3 | 100.5 | 1.34 | 1.32 | * 6 | * 1.82 | 2.11 | * 10.5 | 9.6 | 17.0 | * 128.3 | 10.12 | 550 |
| D * 7:49 | * 10185.1 | 10177.1 | 10175.0 | * 12.6 | * 47.4 | 53 | 2600 | 1919 | 329 | * 627 | * 9.5 | 9.5 | 85.3 | 100.3 | 1.34 | 1.33 | * 7 | * 1.80 | 2.11 | * 9.7 | 9.6 | 16.8 | * 129.1 | 10.10 | 548 |
| D * 8: 8 | * 10186.7 | 10178.6 | 10178.0 | * 5.0 | * 46.7 | 56 | 2500 | 1937 | 334 | * 621 | * 9.5 | 9.7 | 85.3 | 101.2 | 1.34 | 1.33 | * 7 | * 2.10 | 2.11 | * 9.7 | 9.6 | 16.8 | * 130.6 | 10.40 | 550 |
| D * 8:16 | * 10187.1 | 10179.0 | 10179.0 | * 3.1 | * 46.5 | 54 | 2500 | 1947 | 329 | * 623 | * 9.5 | 9.5 | 85.3 | 100.8 | 1.34 | 1.33 | * 7 | * 2.24 | 2.11 | * 9.7 | 9.6 | 16.8 | * 131.0 | 10.62 | 552 |
| D * 8:24 | * 10188.0 | 10180.0 | 10179.0 | * 6.7 | * 46.6 | 54 | 2500 | 1937 | 334 | * 619 | * 9.5 | 9.5 | 85.3 | 101.0 | 1.34 | 1.32 | * 7 | * 1.99 | 2.11 | * 9.4 | 9.5 | 16.7 | * 132.0 | 10.76 | 552 |
| D * 8:33 | * 10189.1 | 10181.0 | 10180.0 | * 7.4 | * 47.4 | 54 | 2500 | 1933 | 329 | * 617 | * 9.5 | 9.6 | 85.3 | 99.9 | 1.34 | 1.34 | * 7 | * 1.97 | 2.12 | * 9.5 | 9.6 | 16.8 | * 133.0 | 10.90 | 552 |
| D * 8:37 | * 10190.3 | 10181.0 | 10180.0 | * 7.4 | * 43.5 | 55 | 2500 | 1942 | 329 | * 619 | * 9.5 | 9.6 | 85.2 | 100.2 | 1.34 | 1.33 | * 7 | * 1.97 | 2.12 | * 9.5 | 9.6 | 16.8 | * 133.0 | 10.90 | 552 |
| D * 8:41 | * 10191.0 | 10183.0 | 10181.0 | * 12.0 | * 44.4 | 55 | 2600 | 1942 | 333 | * 615 | * 9.5 | 9.5 | 85.2 | 100.6 | 1.35 | 1.32 | * 7 | * 1.77 | 2.12 | * 9.7 | 9.5 | 16.8 | * 135.0 | 11.03 | 547 |
| D * 8:56 | * 10192.0 | 10184.0 | 10182.0 | * 4.0 | * 45.3 | 54 | 2500 | 1920 | 334 | * 611 | * 9.5 | 9.6 | 85.0 | 100.4 | 1.34 | 1.33 | * 7 | * 2.17 | 2.12 | * 9.7 | 9.6 | 16.8 | * 136.0 | 11.29 | 550 |
| D * 9:14 | * 10193.0 | 10185.0 | 10185.0 | * 3.5 | * 44.7 | 53 | 2400 | 1937 | 334 | * 609 | * 9.5 | 9.6 | 84.8 | 101.3 | 1.34 | 1.32 | * 6 | * 2.20 | 2.12 | * 9.7 | 9.6 | 16.8 | * 137.0 | 11.50 | 554 |
| D * 9:32 | * 10194.2 | 10186.1 | 10186.0 | * 3.8 | * 38.8 | 65 | 3100 | 1900 | 329 | * 615 | * 9.5 | 9.5 | 84.9 | 99.3 | 1.34 | 1.35 | * 7 | * 2.15 | 2.12 | * 9.7 | 9.6 | 16.8 | * 138.1 | 11.09 | 557 |
| D * 9:46 | * 10195.3 | 10187.2 | 10188.0 | * 4.7 | * 38.9 | 62 | 3200 | 1909 | 334 | * 617 | * 9.5 | 9.5 | 84.9 | 99.7 | 1.34 | 1.33 | * 7 | * 2.03 | 2.12 | * 9.7 | 9.5 | 16.8 | * 139.2 | 12.11 | 559 |
| D * 9:55 | * 10196.0 | 10188.0 | 10189.0 | * 4.7 | * 39.5 | 67 | 3100 | 1905 | 329 | * 619 | * 9.5 | 9.6 | 84.7 | 99.5 | 1.34 | 1.33 | * 7 | * 2.05 | 2.12 | * 9.7 | 9.6 | 16.8 | * 140.0 | 12.27 | 560 |

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