

# Blue Force<sup>®</sup>LWD FracView<sup>®</sup>

### **High-Resolution Borehole Imager**

Industry leading Logging While Drilling (LWD) acoustic imager provides high-quality borehole images, caliper, and dynamics data while drilling with oil-based or water-based muds.

Our proprietary dynamically-focused ultrasonic transducers enable electronically controlled changes to focal depth. Using two independent transducers, FracView® provides 360 degrees of coverage while rotating. The tool captures wide-band vibration, acceleration, shock, and orientation via an integrated Drilling Dynamics monitor package, allowing for identification and flagging of drilling issues such as stick-slip and whirl.

The FracView system is memory-based based, runs on its battery power, with standard API mechanical connections, allowing it to be included in any BHA. Explore the logs using Blue Force DeepView® DLIS viewer, optimized to navigate extremely sized and detailed datasets.



#### **APPLICATIONS**

- Natural fracture/fault characterization
- Induced fracture detection
- Thin bed and vug detection
- Formation stress and stress rotation
- · Borehole stability
- Lithology and facies identification
- · Frac optimization
- Dip measurement

#### DELIVERABLES

- Natural fracture/fault characterization
- Induced fracture detection
- Thin bed and vug detection
- Formation stress and stress rotation
- · Borehole stability
- Lithology and facies identification
- Frac optimization
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# Blue Force® FracView®

## High-Resolution Borehole Imager

Creating images of wells while they are being drilled can also provide information about the size and shape of the hole and the surrounding rock. This tool works with both oil-based and water-based drilling muds.

#### **Measurement & Performance Specifications**

Parameters	Specification			
Imaging Resolution	Features spaced 0.25 in (6.35 mm) apart or greater are fully resolved			
Feature Detection	Features as small as 0.04 in (1 mm) are detectable			
Binning Capability	64 to 512 bins			
Orientation	High-side, Magnetic			
Radial and Axial Acceleration	Range	±40g, 240 Hz (-3dB BW) ±200g, 125 Hz (-3dB BW)		
Torsional and Axial Acceleration	Range	±2,500 rad/s², 240 Hz (- 3dB BW)		
RPM	Range	±5,000 RPM		
Temperature Measurement	Sensor Range Accuracy Precision	-40 to 190°C ±1.5°C 0.02°C rms		
Data Recording	Accelerations & RPM Memory	Nominal 200 hrs		
Power Source	Internal Batteries	Nominal 200 hrs		

For questions, comments, or details on Blue Force® FracView®, please reach out to a Nabors Representative!

Nominal Collar OD   in.(mm)   6.50 (165)   5.00 (127)     Maximum Collar OD   in.(mm)   7.00 (178)   5.25 (133)     Borehole Size   In (MM)   7.88 - 9.88   5.88 - 7.75 (149 - 197)     Mud Flow Channel   in.(mm)   2.25 (57)   1.25 (32)     Tool Length   in.(mm)   62.00 (1575)   71.50 (1816)     Tool Veight   Ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-1b   28,000   10,000     Maximum Torque   ft-1b   750,000   20,000     Overpull non- rotating, Operational   GPM   750   350     Max DLS rotating   deg/100 ft   1   15     Max Operating remperature Nominal   PF (°C)   302 (150)   302 (150)     High   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP   Nominal Collar OD	Tool Parameters		650	475		
Maximum Collar OD   in. (mm)   7.00 (178)   5.25 (133)     Borehole Size Coverage   In (MM)   7.88 - 9.88 (200 - 251)   5.88 - 7.75 (149 - 197)     Mud Flow Channel ID   in. (mm)   2.25 (57)   1.25 (32)     Tool Length   in. (mm)   62.00 (1575)   71.50 (1816)     Tool Veight   Ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-Ib   28,000   10,000     Maximum Torque   ft-Ib   750,000   200,000     Overpull non- rotating, Operational   Ibf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max Mud Flow Rate (<2% sand)   GPM   750   350     Max Objerating   PF (°C)   302 (150)   302 (150)     Pressure, PSI, standard   psi   20000   20000     High   psi   20000   20000     Pressure, PSI, standard   In. (mm)   6.75 (171)     Max Operating   psi   20000   2006 (51) for 675H	Nominal Collar OD	in.(mm)	6 E0 (16E)	E 00 (127)		
Borehole Size Coverage   In (MM)   7.88 - 9.88 (200 - 251)   5.88 - 7.75 (149 - 197)     Mud Flow Channel ID   in.(mm)   2.25 (57)   1.25 (32)     Tool Length   in.(mm)   62.00 (1575)   71.50 (1816)     Tool Length   ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box   Box     Make-up Torque   ft-lb   28,000   10,000     Maximum Torque   ft-lb   750,000   20,000     Overpull non- rotating, Operational   deg/100 ft   10   15     Max DLS rotating   deg/100 ft   21   30     Max Mud Flow Rate (2% sand)   GPM   750   350     Max Operating Pressure, PSI, standard   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP   Nominal   2000   20000     Max Operating Pressure, PSI, standard   in.(mm)   6.75 (171)   Maximum Collar OD   in	Maximum Collar OD	in.(mm)	· · /			
Coverage   (200 - 251)   (149 - 197)     Mud Flow Channel ID   in.(mm)   2.25 (57)   1.25 (32)     Tool Length   in.(mm)   62.00 (1575)   71.50 (1816)     Tool Weight   Ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-lb   28,000   10,000     Maximum   Ibf   400,000   200,000     Compression   10   15     Max Dyperational   deg/100 ft   10   15     Max DLS rotating   deg/100 ft   10   15     Max DLS siding   deg/100 ft   21   30     Max Mud Flow Rate (<2% sand)   GPM   750   302 (150)     Max Operating Pressure, PSI, standard   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   fsi   20000   20000     High   psi   25000   10     Max Operating   psi   20000   2000	Borehole Size					
ID     Tool Length   in.(mm)   62.00 (1575)   71.50 (1816)     Tool Weight   Ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-lb   28,000   10,000     Maximum   Ibf   400,000   200,000     Overpull non- rotating, Operational   Ibf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max DLS stiding   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating Temperature Nominal   °F (°C)   322 (150)   302 (150)     Max Operating Pressure, PSI, standard   psi   20000   20000     Pressure, PSI, standard   standard       High   psi   25000   20000   20000     Tool Parameters   675,675HP       Nominal Collar OD   in.(mm)   7.25 (184)      Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)	Coverage	. ,	(200 - 251)	(149 - 197)		
Tool Weight   Ibs   480   295     Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-lb   28,000   10,000     Maximum   lbf   400,000   200,000     Compression    400,000   200,000     Overpull non- rotating, Operational   lbf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max DLS rotating   deg/100 ft   21   30     Max Mud Flow Rate   GPM   750   350     (<2.2% sand)    302 (150)   302 (150)     Max Operating Pressure, PSI, standard   PF (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   25000      High   psi   25000       Tool Parameters   675, 675HP       Nominal Collar OD   in.(mm)   6.75 (171)      Maximum Collar OD   in.(mm)		in.(mm)	2.25 (57)	1.25 (32)		
Connections   NC50, Box- Box   NC38, Box- Box     Make-up Torque   ft-lb   28,000   10,000     Maximum   Ibf   400,000   200,000     Compression   200,000   200,000     Maximum Torque   ft-lb   750,000   400,000     Overpull non- rotating, Operational   10   15     Max DLS rotating   deg/100 ft   10   15     Max DLS rotating   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating Temperature Nominal   °F (°C)   302 (150)   302 (150)     High   °F (°C)   329 (165)   329 (165)   Extreme     Pressure, PSI, standard   psi   20000   20000     Max Operating Pressure, PSI, standard   fin.(mm)   7.25 (171)   Maximum Collar OD     Maximum Collar OD   in.(mm)   7.25 (184)   Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)   2.00 (51) for 675H   Tool Weight   Ibs	Tool Length	in.(mm)	62.00 (1575)	71.50 (1816)		
Box   Box     Make-up Torque   ft-lb   28,000   10,000     Maximum   Ibf   400,000   200,000     Compression   750,000   400,000     Maximum Torque   ft-lb   750,000   400,000     Overpull non- rotating, Operational   deg/100 ft   10   15     Max DLS rotating   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating   °F (°C)   302 (150)   302 (150)     Temperature Nominal   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   Tool Length	Tool Weight	lbs	480	295		
Maximum Compression   Ibf   400,000   200,000     Maximum Torque   ft-lb   75,000   20,000     Overpull non- rotating, Operational   Ibf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max DLS siding   deg/100 ft   21   30     Max Mud Flow Rate   GPM   750   350     (< 2% sand)   "F (°C)   302 (150)   302 (150)     Max Operating remperature   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     High   psi   25000   20000   20000     Tool Parameters   675, 675HP   Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)   2.00 (51) for 675H     Tool Length   in.(mm)   2.25 (57)   2.00 (51) for 675H   7.00 (206 – 267)     Mud Flow Channel ID   in.(mm)   6.485 (1647)   7.00 (206 – 267) <th>Connections</th> <th></th> <th></th> <th>_ '</th>	Connections			_ '		
Compression     Maximum Torque   ft-lb   75,000   20,000     Overpull non- rotating, Operational   lbf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max DLS soliding   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating Temperature Nominal   °F (°C)   302 (150)   302 (150)     High   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   2.25 (57)     Coll Parameters   675, 675HP     Nominal Collar OD   in.(mm)   2.25 (57)     Scool (51) for 675H   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Veight   lbs   600     Connections <th>Make-up Torque</th> <th>ft-lb</th> <th></th> <th></th>	Make-up Torque	ft-lb				
Overpull non- rotating, Operational   Ibf   750,000   400,000     Max DLS rotating   deg/100 ft   10   15     Max DLS sliding   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating remperature Nominal   °F (°C)   302 (150)   302 (150)     High   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   25000   20000     Tool Parameters   675, 675HP   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   700   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Veight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-lb		lbf	400,000	200,000		
rotating, Operational     Max DLS rotating   deg/100 ft   10   15     Max DLS sliding   deg/100 ft   21   30     Max Mud Flow Rate (< 2% sand)	Maximum Torque	ft-lb	75,000	20,000		
Max DLS sliding   deg/100 ft 21   30     Max Mud Flow Rate (< 2% sand)   GPM   750   350     Max Operating Temperature Nominal   °F (°C)   302 (150)   302 (150)     High   °F (°C)   329 (165)   329 (165)     Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   Tool Length   in.(mm)     Tool Veight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   750,000     Operational   GPM   750     Max DLS rotating   deg/100 ft   2	•		750,000	400,000		
Max Mud Flow Rate (< 2% sand)	Max DLS rotating	deg/100 ft	10	15		
(< 2% sand)   Max Operating Temperature Nominal °F (°C) 302 (150) 302 (150)   High °F (°C) 329 (165) 329 (165)   Extreme °F (°C) 347 (175) 347 (175)   Max Operating Pressure, PSI, standard psi 20000 20000   Tool Parameters 675, 675HP   Nominal Collar OD in.(mm) 6.75 (171)   Maximum Collar OD in.(mm) 7.25 (184)   Borehole Size Coverage In (MM) 8.13 – 10.50 (206 – 267)   Mud Flow Channel ID in.(mm) 2.25 (57)   2.00 (51) for 675H 2.00 (51) for 675H   Tool Length in.(mm) 64.85 (1647)   Tool Weight Ibs 600   Connections NC50, Box-Box   Make-up Torque ft-Ib 30,000   Maximum Compression Ibf 400,000   Maximum Torque ft-lb 75,000   Overpull non-rotating, Operational Ibf 750,000   Max DLS rotating deg/100 ft 10   Max Mud Flow Rate (< 2% sand) GPM 750   Max Mud Flow Rate (< 2% sand)	Max DLS sliding	deg/100 ft				
Temperature Nominal   °F (°C)   329 (165)   329 (165)     High   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   750,000     Operational   Price   21     Max DLS rotating   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     Standard		GPM	750	350		
Extreme   °F (°C)   347 (175)   347 (175)     Max Operating Pressure, PSI, standard   psi   20000   20000     High   psi   25000   20000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature	Temperature	°F (°C)	302 (150)	302 (150)		
Max Operating Pressure, PSI, standard   psi   20000   20000     High   psi   25000   20000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   700 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   750,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS sliding   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   Standard   °F (°C)   302 (150)     High   °F (°C)   347 (175)   Max Operating	High	°F (°C)	329 (165)	329 (165)		
Pressure, PSI, standard   psi   25000     Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   750,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   Standard   °F (°C)   302 (150)     High   °F (°C)   329 (165)   Extreme   °F (°C)   347 (175)	Extreme	°F (°C)	347 (175)	347 (175)		
Tool Parameters   675, 675HP     Nominal Collar OD   in.(mm)   6.75 (171)     Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57) 2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   750,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     Standard   °F (°C)   302 (150)     High   °F (°C)   347 (175)     Max Operating   psi   20,000	Pressure, PSI,	psi	20000	20000		
Nominal Collar OD   in. (mm)   6.75 (171)     Maximum Collar OD   in. (mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in. (mm)   2.25 (57) 2.00 (51) for 675H     Tool Length   in. (mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-lb   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-lb   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)	High	psi	25000			
Maximum Collar OD   in.(mm)   7.25 (184)     Borehole Size Coverage   In (MM)   8.13 – 10.50 (206 – 267)     Mud Flow Channel ID   in.(mm)   2.25 (57) 2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     %F (°C)   329 (165)   Extreme     %F (°C)   347 (175)   Max Operating	Tool Parameters	neters		675, 675HP		
Borehole Size Coverage   In (MM)   8.13 - 10.50 (206 - 267)     Mud Flow Channel ID   in.(mm)   2.25 (57)     2.00 (51) for 675H   2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, lbf   750,000   0     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     Standard   °F (°C)   302 (150)     High   °F (°C)   347 (175)     Max Operating   psi   20,000	Nominal Collar OD	Nominal Collar OD in.(mm)		· · · · · · · · · · · · · · · · · · ·		
Mud Flow Channel ID   in.(mm)   2.25 (57) 2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-lb   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-lb   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     %F (°C)   329 (165)   347 (175)     Max Operating   psi   20,000	Maximum Collar OD	in.(mm)	7.25 (184	)		
2.00 (51) for 675H     Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)	Borehole Size Covera	age In (MM)	8.13 – 10.	50 (206 – 267)		
Tool Length   in.(mm)   64.85 (1647)     Tool Weight   Ibs   600     Connections   NC50, Box-Box     Make-up Torque   ft-Ib   30,000     Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   302 (150)   High     %F (°C)   302 (150)   High     %F (°C)   347 (175)   Max Operating	Mud Flow Channel ID	in.(mm)		6 07511		
Tool WeightIbs600ConnectionsNC50, Box-BoxMake-up Torqueft-Ib30,000Maximum CompressionIbf400,000Maximum Torqueft-Ib75,000Overpull non-rotating, OperationalIbf750,000Max DLS rotatingdeg/100 ft10Max DLS slidingdeg/100 ft21Max Mud Flow Rate (< 2% sand)	Tool Length	in (mm)				
Connections   NC50, Box-Box     Make-up Torque   ft-lb   30,000     Maximum Compression   lbf   400,000     Maximum Torque   ft-lb   75,000     Overpull non-rotating, Operational   lbf   750,000     Max DLS rotating   deg/100 ft   10     Max DLS sliding   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   Standard   °F (°C)   302 (150)     High   °F (°C)   329 (165)   Extreme     Psi   20,000   20,000   347 (175)			•			
Maximum Compression   Ibf   400,000     Maximum Torque   ft-Ib   75,000     Overpull non-rotating, Operational   Ibf   750,000     Max DLS rotating   deg/100 ft   10     Max DLS sliding   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   Standard   °F (°C)   302 (150)     High   °F (°C)   329 (165)   Extreme   °F (°C)   347 (175)     Max Operating   psi   20,000   20,000   20,000   20,000			NC50, Bc	x-Box		
Maximum Torque   ft-lb   75,000     Overpull non-rotating, Operational   lbf   750,000     Max DLS rotating   deg/100 ft   10     Max DLS sliding   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)   GPM   750     Max Operating Temperature   Standard   °F (°C)   302 (150)     High   °F (°C)   329 (165)   Extreme     Psi   20,000   20,000	Make-up Torque	ft-lb	30,000			
Overpull non-rotating, Operationallbf750,000Max DLS rotatingdeg/100 ft10Max DLS slidingdeg/100 ft21Max Mud Flow Rate (< 2% sand)	Maximum Compress	ion lbf	400,000			
OperationalMax DLS rotatingdeg/100 ft10Max DLS slidingdeg/100 ft21Max Mud Flow Rate (< 2% sand)	Maximum Torque	ft-lb	75,000			
Max DLS sliding   deg/100 ft   21     Max Mud Flow Rate (< 2% sand)		g, Ibf	750,000			
Max Mud Flow Rate (< 2% sand)	Max DLS rotating	deg/100	) ft 10			
Max Mud Flow Rate (< 2% sand)	Max DLS sliding	deg/100	) ft 21			
Standard   °F (°C)   302 (150)     High   °F (°C)   329 (165)     Extreme   °F (°C)   347 (175)     Max Operating   psi   20,000		GPM	750			
High   °F (°C)   329 (165)     Extreme   °F (°C)   347 (175)     Max Operating   psi   20,000	Max Operating Temperature					
High   °F (°C)   329 (165)     Extreme   °F (°C)   347 (175)     Max Operating   psi   20,000	Standard	°F (°C)	302 (150)			
Max Operating psi 20,000	High	°F (°C)	329 (165)			
	Extreme	°F (°C)	347 (175)			
	• •	psi		- 675H		

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