

Blue Force[®]LWD FracView[®]

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
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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)		
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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)		
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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		
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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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