

FracView®

High-Resolution Borehole Imager

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

Highlights

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, runs on its own battery power, with standard API mechanical connections, allowing it to be included in any BHA.

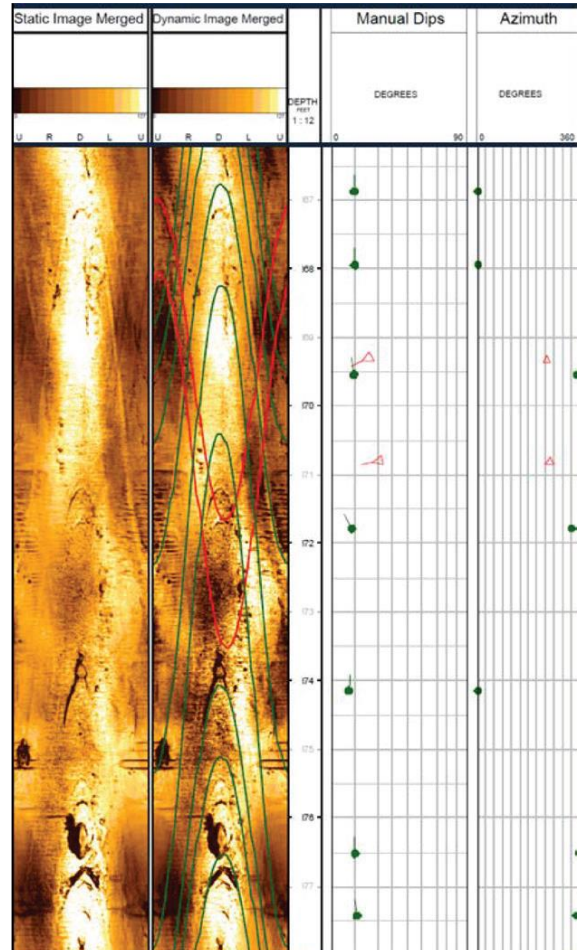
Explore the logs using PetroMar's DeepView® DLIS viewer, optimized to navigate extreme sized and detailed datasets.

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

- High-resolution amplitude image
- High-resolution transit time image
- Precision borehole size and shape data
- Instantaneous RPM and tool face
- 3-axis vibration, stick-slip and whirl
- Temperature



Complementary Companion Services

- **SpectraView®**
LWD Spectral and Azimuthal Gamma Ray Tool
- **DrillView®**
Drilling Conditions Monitor
- **DeepView®**
Extreme size DLIS Log Viewer
- **Interpretation Services**

Measurement and Performance Specifications

PARAMETER	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 Acceleration	Range	±2,500 rad/s ² , 240 Hz (-3dB BW)
RPM	Range	±5,000 RPM
Temperature Measurement	Sensor Range	-40 to 190°C
	Accuracy	±1.5°C
	Precision	0.02°C rms
Data Recording	Accelerations & RPM	1,000 sps
	Memory	Nominal 200 hours
Power Source	Internal Batteries	Nominal 200 hours

Mechanical and Environmental Specifications

PARAMETER	475	650	675, 675HP
Nominal Collar OD, in. (mm)	5.00 (127)	6.50 (165)	6.75 (171)
Maximum Collar OD, in. (mm)	5.25 (133)	7.00 (178)	7.25 (184)
Borehole Size Coverage, in. (mm)	5.88 - 7.75 (149 - 197)	7.88 - 9.88 (200 - 251)	8.13 - 10.50 (206 - 267)
Mud Flow Channel ID, in. (mm)	1.25 (32)	2.25 (57)	2.25 (57) 2.00 (51) for 675HP
Tool Length, in. (mm)	71.50 (1816)	62.00 (1575)	64.85 (1647)
Tool Weight, lbs	295	480	600
Connections	NC38, Box-Box	NC50, Box-Box	NC50, Box-Box
Make-up Torque, ft-lb	10,000	28,000	30,000
Maximum Compression, lbf	200,000	400,000	400,000
Maximum Torque, ft-lb	20,000	75,000	75,000
Overpull non-rotating, Operational, lbf	400,000	750,000	750,000
Max DLS rotating, deg / 100 ft	15	10	10
Max DLS sliding, deg / 100 ft	30	21	21
Max Mud Flow Rate, GPM (< 2% sand)	350	750	750
Max Operating Temperature, °F (°C) standard	302 (150)	302 (150)	302 (150)
	high	329 (165)	329 (165)
	extreme	347 (175)	347 (175)
Max Operating Pressure, PSI	20,000	20,000 25,000 for 675HP	20,000 25,000 for 675HP