



OPTICAL TELEVIEWER

The OBI40-2G Optical Televiewer offers a cost-effective solution for precise core orientation and fracture analysis. Equipped with a 3-axis fluxgate magnetometer and 3 accelerometers, the probe produces an oriented, 360° color image of the borehole wall face. This imaging technology allows for accurate borehole deviation data to be obtained simultaneously with a 3D core image, in a single logging pass.

Optical televiewer technology complements or replaces coring surveys while eliminating associated core recovery and orientation problems. Statistical analysis provides rose diagrams, stereonet, aperture, fracture-density and 3D projections of the dominate fracture networks.

Often used in conjunction with acoustic televiewer data, the optical televiewer can provide an image of the borehole wall in both dry and fluid-filled borehole conditions (borehole fluid must be optically clear).

APPLICATIONS:

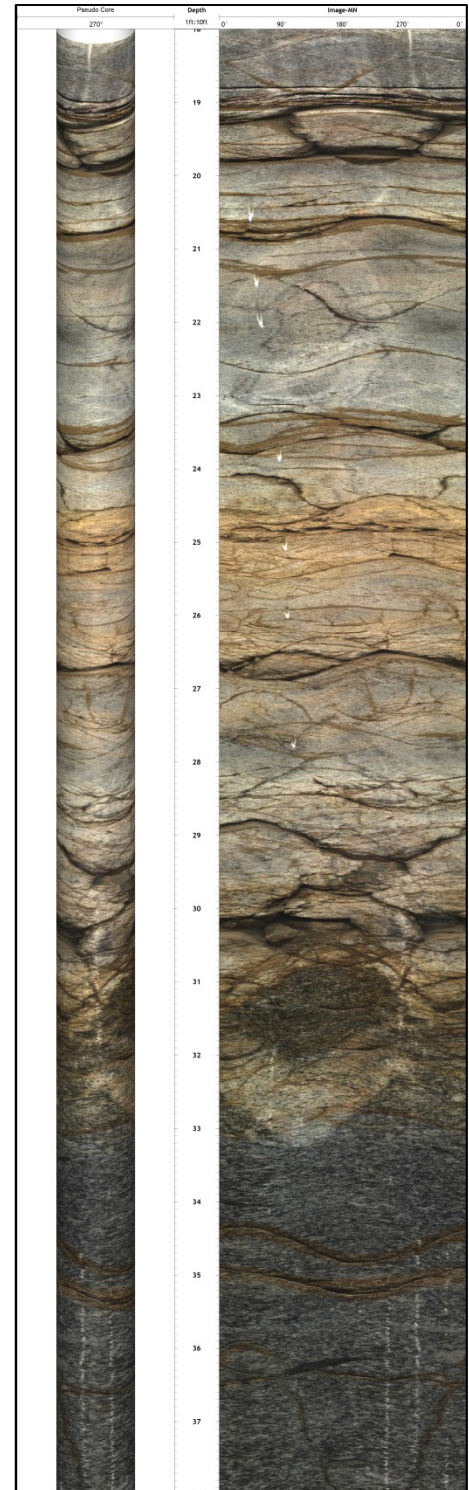
- + Fracture orientation and evaluation
- + Thin bed detection
- + Visual observation of mineralization
- + Bedding dip
- + Lithological characterization
- + Casing inspection
- + Borehole deviation

PROBE SPECIFICATIONS:

Diameter:	40 mm (1.6 in.)
Length:	1.50 m (4.9 ft.)
Max Temperature Rating:	70°C (158°F)
Max Pressure Rating:	200 bar (2900 psi)
Borehole Diameter Range:	1.75" to 24"; dependent on borehole conditions
Logging Speed:	4 – 20 ft/min; dependent on resolution and wireline

SENSOR SPECIFICATIONS:

Type:	DSP-based CMOS digital image sensor
Optics:	Polycarbonate fisheye lens
Azimuthal Resolution:	120, 180, 360, 600, 900, 1800 pixels per 360°; user defined
Vertical Resolution:	0.5 mm +; user defined sample rate
Color Resolution:	24-bit RGB true color
Orientation:	3-axis magnetometer, 3 accelerometers
Inclination Accuracy:	± 0.5 degree
Azimuth Accuracy:	± 1.2 degree



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