OBI-40 OPTICAL TELEVIEWER

The OBI-40 Optical Televiewer offers cost-effective core orientation and fracture evaluation. This devise produces a 360º RGB color oriented image of the borehole wall face utilizing a 3-axis magnetometer and 3 accelerometers. The 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, stereonets, aperture, fracture-density and 3D projections of the dominate fracture networks.

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

PROBE SPECIFICATIONS:

- Diameter: 40mm (1.6 in.)
- Length: 1.5m (4.9 ft.)
- Weight: 6 Kg (23.2 lbs)
- Max Operating Temperature: 50ºC (122 ºF)
- Max Pressure: 200 bar (2900 psi)
- Borehole Diameter: 1.75" to 24" depending on borehole conditions
- Logging Speed: 3 to 12 ft/min depending on resolution and wireline conditions

SENSOR SPECIFICATIONS:

- Type: DSP based digital CCD downhole camera
- Optics: Polycarbonate conic prism system
- Azimuthal Resolution: User-definable 90/180/360/720 pixels per 360º
- Vertical Resolution: User-definable depth sample rate, 0.5mm+
- Color Resolution: 24-bit RGB
- Orientation: 3 axis magnetometer, 3 accelerometers
- Inclination Accuracy: 0.5 degree
- Azimuth Accuracy: 1.0 degree