Know more. Drill with purpose.

Specialty MWD & LWD

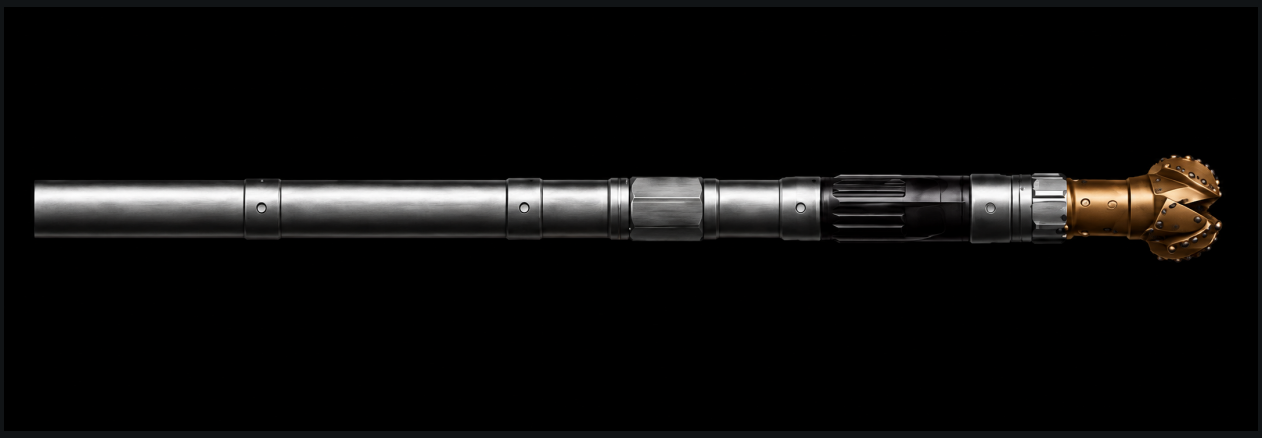
Near-bit measurements, formation evaluation and pressure data, configured around the decisions your well demands.

MEASUREMENT / INTERPRETATION / APPLICATION

Illustrative campaign artwork from supplied MWD Solutions material.

Flashlight

Inclination, azimuth and gamma at the bit.



12 in
sensor offset

175°C
temperature rating

250 rpm
combined motor + string

Positioned between the motor and bit, Flashlight measures inclination, azimuth, gamma and azimuthal gamma near the cutting structure. An EM short-hop carries data to a receiver in the MWD string for transmission to surface.

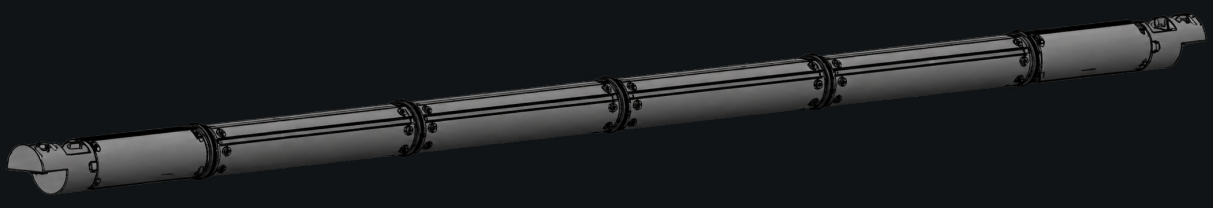
APPLICATIONS

Geosteering in dipping formations / Casing-point selection / Near-bit directional and formation context

Review the matching technical sheet for specifications, operating considerations and source notes. Confirm configuration before use.

Quad Orbital

Directional gamma response while rotating and sliding.



2 / 4 / 8
azimuthal bins

175°C
temperature rating

20,000 psi
pressure rating

Four gamma sensors in one retrievable probe provide selectable azimuthal bins, up/down sliding measurements and rotary inclination. The module is designed to replace the gamma module in a compatible MWD string.

APPLICATIONS

Directional and horizontal drilling / Formation-boundary and fault interpretation / Formation context during rotation and slides

Review the matching technical sheet for specifications, operating considerations and source notes. Confirm configuration before use.

Omega

Four investigation depths. Two measurement frequencies.

400 kHz / 2 MHz
frequencies

4
investigation depths

150°C
temperature rating

Omega measures phase-shift and attenuation resistivity at 400 kHz and 2 MHz. A retrievable probe lands in a slotted collar, using symmetrically positioned transmitters to compensate for borehole effects.

APPLICATIONS

Oil/water contact evaluation / Bed-boundary mapping / Logging while tripping / Measurement after drilling

Review the matching technical sheet for specifications, operating considerations and source notes. Confirm configuration before use.

APWD

Downhole pressure through drilling and pumps-off periods.

0.1% FS
pressure accuracy

175°C
temperature rating

1.875 in
module diameter

A calibrated, temperature-compensated pressure instrument records average, peak and resting annular pressure alongside temperature and drilling dynamics. Sampling and measurement start times are programmable, with memory recording and real-time transmission.

APPLICATIONS

Equivalent circulating density evaluation / Hole-cleaning and barite-sag analysis / Leak-off and formation integrity testing / Connection and pumps-off pressure review

Review the matching technical sheet for specifications, operating considerations and source notes. Confirm configuration before use.

The right tools start with the right conversation.

Define the objective

What does the drilling team need to know, and when?

Review the configuration

Align measurements, telemetry and operating limits with the proposed assembly.

Connect the data

Bring tool behavior, drilling conditions and technical analysis into the same discussion.

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Rebuilt from supplied company materials. Technical-review edition; company approval and configuration confirmation required before operational use.