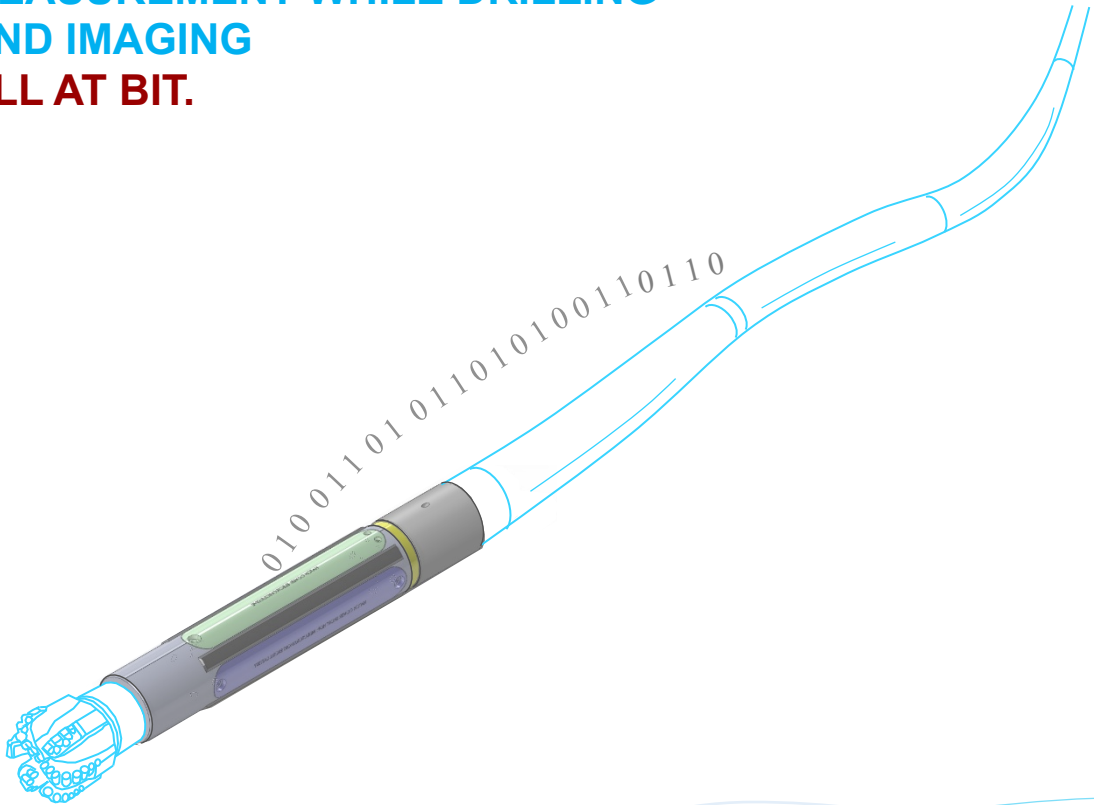


MEASUREMENT WHILE DRILLING AND IMAGING ALL AT BIT.



Dynamic inclination measurement allows for continuous monitoring of well trajectory progression while drilling to help reduce dogleg severity and well tortuosity.

Azimuthal gamma ray offers 16-sector natural gamma imaging for proactive geosteering and well placement.

Continuous RPM and drilling dynamics monitoring (to come) help evaluate drilling efficiency.

Azimuthal resistivity imaging (to come) extends the depth of imaging over gamma ray by 200% to 400% for early geosteering decisions. Ideal for oil-water contact detection, too.

Wireless short hop transmits data in real time through oil-based, water-based, or even salty mud while the full data set is captured in the tool memory.

The shorter than ever at-bit sub maximizes BHA steerability from positive displacement motors or rotary steerable systems.

Applications and benefits

- Ideal for horizontal and directional drilling
- Improved well trajectory from reduced dogleg severity and well tortuosity
- Drilling efficiency evaluation
- Precision geosteering in thinly bedded reservoirs
- Quick response to rapid lithology changes

Specifications

Hole size range	5-7/8 in. to 6-3/4 in.
Max OD	5-1/4 in.
Min ID	1.35 in.
Sub length	31 in.
Top connection	3-1/2 in. IF
Bottom connection	3-1/2 in. REG
Max DLS rotating	15°/100ft
Max DLS sliding	30°/100ft
Max operating pressure	15,000 psi
Max operating WOB	25,000 lbs
Max RPM	300
Max operating temperature	150°C
Max torque	5,000 lbf-ft
Max sand content	2%
Battery life	Up to 100 hrs
Max over pull	50,000 lbs
Max flow rate	343 gpm
Inclination range	0° to 180°
Inclination accuracy	±0.2°
Gamma ray range	0 – 250 AAPI
Gamma ray accuracy	5%
Max number of gamma sectors	16