

PeriScope Track Record

Positioning wells in the best place since 2003

The unique PeriScope* bed boundary mapper has been helping position wells in the best place in the reservoir and evaluate formations in less time since 2003. Its 360° directional sensitivity and deep measurement capability have detected reservoir and fluid boundaries up to 21 ft [6.4 m] from the borehole, while drilling. Operators worldwide have used this real-time information to place wells in the sweet spots of reservoirs, access attic oil, and delay water cut.

Early detection of boundaries by the PeriScope mapper enables a driller to keep the wellbore within the reservoir, increasing production rates and recovery.

- Longest horizontal reservoir section drilled: **6,678 ft [2,035 m]** in **Alaska**
- Longest section drilled without exiting reservoir (100% reservoir footage): **5,320 ft (1,621 m)** in **US**
- Thinnest reservoir drilled with more than 90% of footage within the reservoir:
 - **2 to 4 ft [0.6 to 1.2 m]**—clastic reservoir in **California, USA**
 - **4 ft [1.2 m]**—coalbed methane reservoir in **Canada**
 - **3.5 ft [1.1 m]**—carbonates reservoir in **Abu Dhabi, UAE**

Deep measurement provided by the PeriScope mapper helps avoid drilling hazards, cutting drilling costs.

- Farthest boundary detected: **21 ft [6.4 m]** in **North Sea**

Fully compensated multidepth resistivity measurements from the PeriScope mapper show boundaries clearly, allowing accurate estimation of reserves.

- Reservoir boundary successfully detected and mapped in
 - **0.6-ohm.m reservoir with adjacent beds less than 3 ohm.m, in Abu Dhabi, UAE**
 - **100-ohm.m reservoir with adjacent beds more than 1,000 ohm.m, in Saudi Arabia**

Real-time PeriScope mapping enables production objectives to be achieved with less drilling and allows recovery of reserves that could not be accessed economically with earlier technology.

- Environments in which tool has been successfully used:
 - **Clastic**
 - **Carbonate**
 - **Coalbed methane**
 - **Heavy oil**
 - **Channel sand**

The PeriScope mapper has repeatedly proven its ability to help maximize reservoir contact and production, access attic oil, and delay water cut by steering wells to the best place and evaluating formations in real time.

- Years of experience: **2003 to 2007**
- Number of jobs performed worldwide: **269 (as of October 2007)**
- Total footage drilled: **715,000 (as of October 2007)**
- Total circulating hours: **24,800 (as of October 2007)**

PeriScope Users

