Fast EM Data Rates and Excellent Data Density

Canada, Clearwater formation

CHALLENGE

- **Provide adequate Gamma ray density and steering control data in the lateral hole sections at high ROP.**
- **The expected average ROP was 375m/hr (1230 ft/hr) with a peak up to 600 m/hr (1970 ft/hr).**

SOLUTION

- **Provision of EvoOne MWD EM Telemetry**
- **Setup EvoOne with 12 bps at 12hz and 6 bps with 9hz configurations.**

OUTCOME

- **Achieved excellent quality logging data**
- **Delivered exceptional data density while providing steering control.**

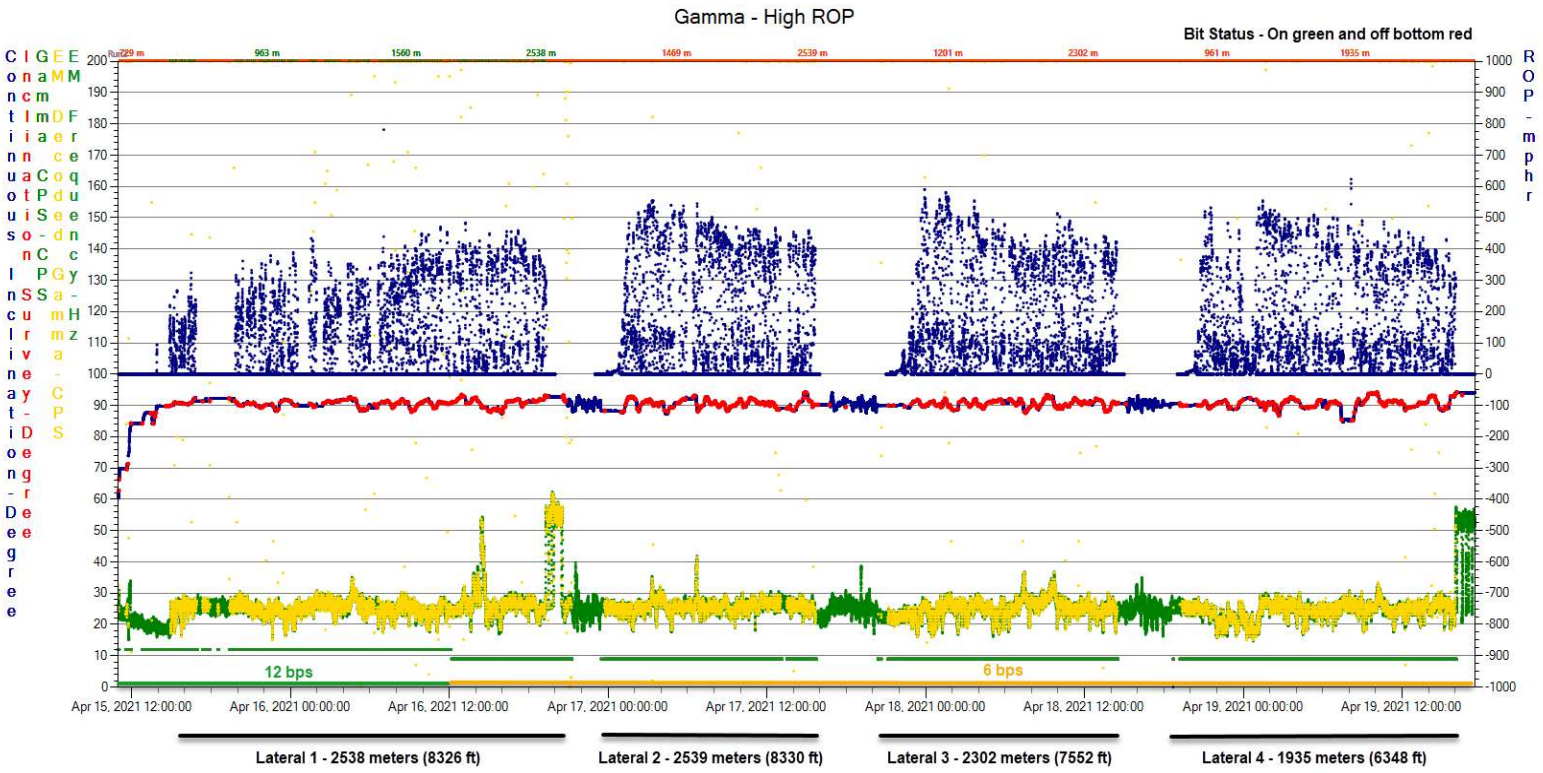
Using Less Power at Faster Data Rates

EM telemetry data was decoded using 12hz - 12 bps and 9hz - 6 bps configurations with the lowest power output set at 2 watts! This resulted in additional savings for our customer, as power output as low as 2 watts extends the battery life to around 480hrs or 20 days of downhole time. With Evolution's unique battery monitoring software and sequential depletion, batteries can be re-used reliably in future sections.

No Need to Compromise

The use of conventional MP telemetry in such applications would have caused an unsatisfactory compromise between ROP and data quality. EvoOne delivered excellent data quality and data density even at peak ROPs ~ 600 m/hr (1970 ft/hr). The Real-time decoding at high rates of penetration was similar to the tool's downhole recorded memory log, which allowed our customer to make informed decisions in real-time with confidence.

nLight™ Post Run Display



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