

**CHALLENGE**

To deliver higher ROP in the Utica while improving downhole data quality so directional drillers and operators can make more informed decisions while saving both time and money.

**SOLUTION**

To deploy EvoOne and use its Unified Telemetry platform to provide multi-mode EM & Mud Pulse while handling the high shock environment typical of air drilling.

**OUTCOME**

1. EvoOne exceeded expectations. The operator extended the pilot hole 600'
2. EM signal level at TD was 1.54mv; minimum decoding level is 0.01mv
3. EvoOne displaced high cost RSS in the curve saving cost to the operator

**EvoOne MWD Exceeds Expectations in Tioga County**

EvoOne was tasked by it's directional client to test EM capacity on an exploratory well in Pennsylvania's Tioga County. What began as an air drilling vertical job quickly led to an extension of the pilot hole and replacing rotary steerable with EvoOne in the curve. This adjustment to the plan was possible due to the outstanding EM signal level (EM signal was 8.15mv at kick-off, 10,303' TVD).

**EvoOne Unified Telemetry Extends Planned Well**

Initial well plans called for a pilot hole extending 500' past KOP. With an EM signal level of 3.55mv at planned TD depth, the operator chose to extend the pilot hole an additional 600'. At TD of the extended pilot hole (11,350' MD), the tool was still decoding at 1.54mv of EM signal while the rig was also simultaneously acquiring 115 lbs pulses from EvoOne's mud pulse telemetry.

**EvoOne Displays Versatility in the Northeast**

Because of EvoOne's unique design, the tool is a perfect fit for the Northeast. This project presented many variables including air drilling, as well as brine drilling fluid and oil based mud. After the air section (the tool was initially setup as EM only) the MWD hands swapped hardware to utilize Unified Telemetry mode with a simple field procedure. No other MWD tool offers the level of flexibility and versatility that EvoOne can.

**EM Signal Strength**

