

MTT Locates lost reamer assembly, enabling recovery and protecting project value.

USA, North Carolina | HDD Highway Crossing | 42" reamed bore



Hazen MTT provided the location and directional information required to recover the obstruction, allowing HDD operations to resume without exposing the product pipe to unnecessary damage and saving \$24million and significant time.

Challenge:

During rock reaming, a 26-in. × 15-in. cone-and-shank assembly separated from the reamer and was left in the bore approximately 200 ft from the exit.

Several fishing and cleanout attempts were unsuccessful. A steering tool detected a magnetic response near 180 ft, suggesting the assembly remained in the bore, but its precise location relative to the bore path was unknown.

Because contact with the lost assembly could damage the product pipe during pullback, the obstruction needed to be accurately located and recovered before HDD operations could safely continue.

Solution: Magnetic Tracking Tool (MTT) with Bedrock

Hazen deployed its Magnetic Tracking Tool (MTT) sensor inside the contractor's nonmagnetic drill collars, using standard wireline telemetry to transmit data to surface.

The BHA was run into the bore from the exit while Hazen monitored magnetic anomalies and correlated the measurements with surveyed depth.

Result:

The first MTT run identified a strong magnetic anomaly at 222 ft that was consistent with the lost reamer components.

A focused confirmation run determined that the sensor passed approximately 2.3 ft from the target, with the assembly positioned below and to the left of the bore path at a reported -126° tool face.

Using the MTT-derived location, the contractor drilled a vertical access hole from surface and successfully recovered the lost components.

Hazen Bedrock Visualizer

