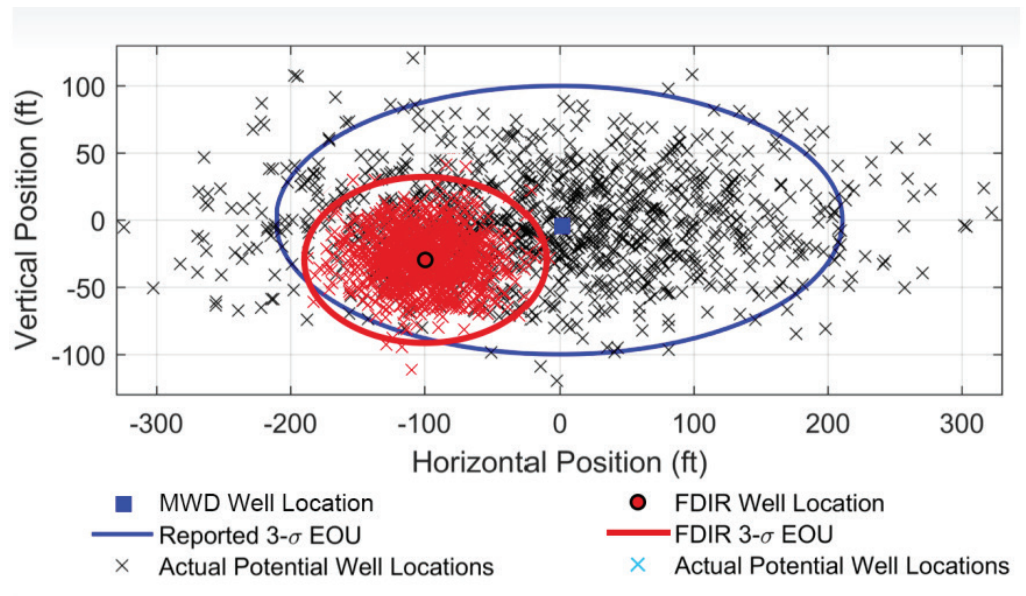# FDIR

Fault Detection, Isolation, and Recovery

APPLICATION

FDIR (Fault Detection, Isolation, and Recovery) is Superior QC's industry-leading automated survey correction software. Unlike the traditional MSA software that relies on human interpretation, FDIR leverages machine learning algorithms and artificial intelligence, taking into account all of the survey data from the current and neighboring wells.

FDIR analyzes 27 error sources per run and uses a statistical AI approach in selecting the most appropriate corrective action. All MWD surveys are corrected in FDIR's cloud-based platform in 10 seconds or less.

Increased Confidence in Wellbore Position

Legend:
- ■ MWD Well Location
- ⬤ FDIR Well Location
- — Reported 3-σ EOU
- — FDIR 3-σ EOU
- × Actual Potential Well Locations
- × Actual Potential Well Locations

FEATURES

- Up to 67% Reduction in EOU Over Standard MWD Survey
- Identify Reference Field Errors (IFR/HDGM/BGGM)
- Correct All 27 Error Sources
- Eliminate East/West Exclusion Zone
- Automated Data Transfer (MWD, Geosteering, etc.)
- 100's of Automated Safeguards Eliminate Human Error

BENEFITS

- 24-hour Real Time Operations Center
- Accurate Well Spacing for Pad/ Field Development
- Provide Insight to Production Loss or Completion Issues
- Optimize Frac Placement and Control Completion Cost
- Remove Human Interpretation Error Through an Automated Statistical Approach

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