



Water Measurement

Ben Nabors

Pioneer Water Management

Technical Field services

OIL FIELD WATER MANAGEMENT SYMPOSIUM

MARCH 29-30, 2023





Ultrasonics

Ultrasonic meter installation

- Spacing from flow disturbance 10 Upstream 5 Downstream
- Transducer mounting integrity on different pipe types





Ultrasonics

Installation above ground VS below Ground

- Pipe types and solutions for quality installation





Measurement

- Fittings and connections
- Packed pipes
- 5 Upstream 2 Downstream





Measurement

- Rental Meters on transfer
- Fittings and Fun





Measurement

Utilizing new Technologies

- Improved accuracy
- Overcome limitations





Measurement

Measurement accuracy success

- leak detection and pipeline monitoring





Measurement

Maintenance best practices

- Calibration
- Grounding integrity
- Coupon monitoring near meters to allow camera inspection

