



Customized Drilling Technologies

Capabilities | 2022

What you'll learn today

- Who we are, what we do
- Our technical capabilities
- How we can improve your business



Who we are

M

OBILE

E

QUIPMENT

D

ESIGN &

A

UTOMATION

T

ECHNOLOGY

MEDATech has been designing and building custom-engineered mobile equipment and systems for customers across the globe since 2003.



Engineering services: from consulting to software development to engineer/design/build



Advanced drilling equipment



All-electric powertrains

Custom Drilling

Borterra develops solutions for unconventional or unique drilling requirements. We are an integrator and OEM that designs, builds and commissions drill rigs for any size hole, any depth, in any ground condition.

Drill faster. Drill straighter. Drill cheaper.

Key equipment criteria:

- Increase accuracy & efficiency
- Reduce waste & environmental impact

Our Team

We are 35 people strong.

Our management team:

- Years of experience in all aspects of drilling
- Engineers, technicians, operators and mechanics



Robert Rennie
President & Owner



Mark Seeber
Senior Technical Advisor



John Arnold
General Manager

Our Team

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Darren Mueller

ALTDrive Product Manager
Engineer - Mechanical



Andrew Severs

MEDATech Product Manager
Engineer - Mechanical



Paul Cholewa

E Innovation Advisor
Controls & Software



Scott Dalrymple

Borterra Product Manager
Engineer - Mechanical

Our Clients



Customized Drilling Technologies

Our Partners



DTH water hammer drilling technology

LKAB Wassara AB (Sweden) develops high performance down-the-hole (DTH) water-powered drilling systems for surface and underground drilling operations.



Sonic drilling technology

The Sonic Drill Corporation is an award-winning designer, manufacturer and supplier of innovative sonic drill heads, rigs and tooling.



Charging solutions & robotics

ABB Charging Solutions and ABB Robotics supply ABB Robotics is a pioneer in robotics, machine automation and the full range of fast and ultra-fast EV charging solutions.



Taiga robotics

Taiga Robotics enables robots and other machinery to operate in unpredictable and unstructured environments by letting a person handle the last-mile decision making in real-time.

A large yellow mining machine is positioned in a dark tunnel. The machine is illuminated by bright lights, and its complex structure is visible. The tunnel walls are rocky and reinforced with a metal mesh. The floor is covered in dirt and debris. A white text overlay is centered on the image.

Technical Capabilities

Our Technology



REQUEST

OEM/end user requests a modified or completely new machine design/build

ENGINEER

Complete ground-up engineering work:
Mechanical,
Hydraulic, Electrical &
Software engineering

BUILD

Complete ground-up prototype build

TEST

Perform testing & commissioning

DRAWINGS

Provide as-built drawings, documentation and models

SUPPORT

Provide ongoing engineering support

Hybrid drill rigs

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By combining two or more drilling technologies, our customers improve safety and increase production.

- Conventional drilling
- Sonic drilling
- Down-the-hole water hammer drilling
- Down-the-hole air drilling
- Percussion drilling
- Diamond-core drilling
- Directional drilling

Hybrid drill rigs

Hybrid DTH water hammer/ sonic drill rig (Southern Company)

- World first: DTH + sonic technologies
- Robotic rod handling
- Real-time drill data collection
- Up to 7-inch diameter holes
- Up to 600 feet deep

Southern Co. expects this rig to halve program time, from 6 years to 3 years.

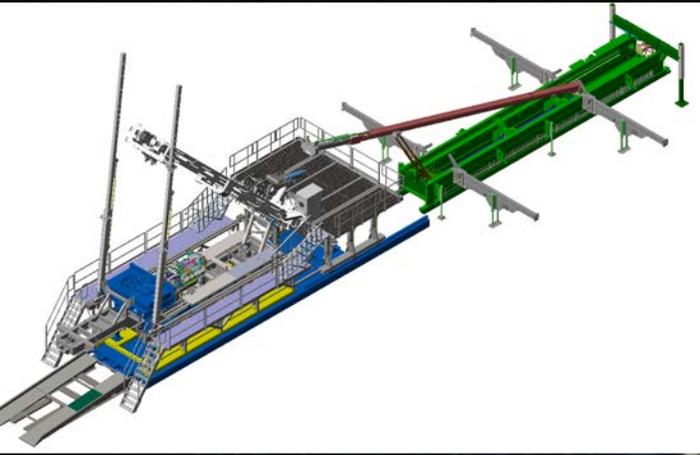




Specialty drill rigs

Auger foundation drill

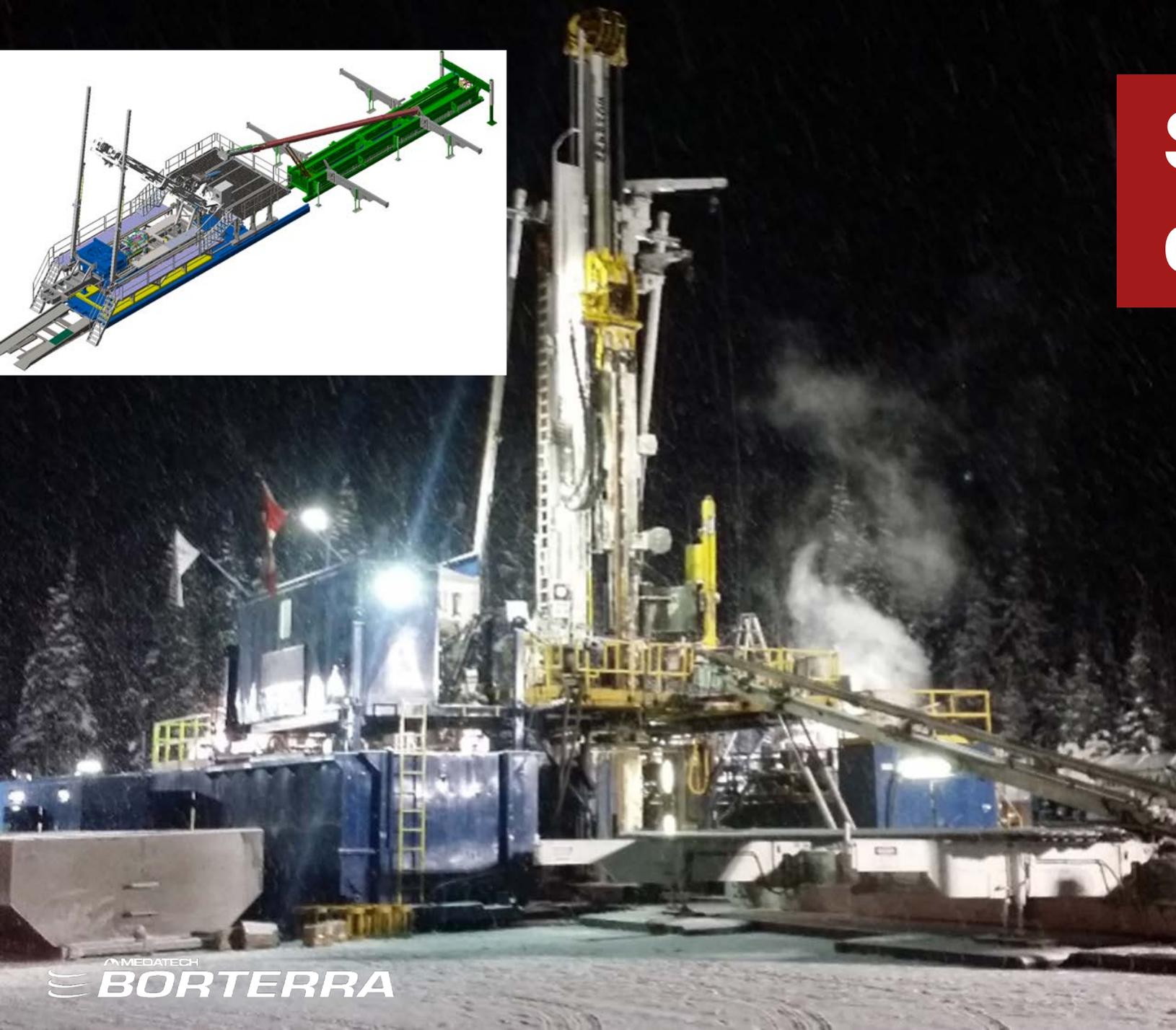
- Up to 12-foot diameter holes
- Truck-mounted, for transmission line expansion
- Designed and delivered in 18 months



Specialty drill rigs

Oil & gas slant drill

- World first: oil & gas drill rig for angled holes using a Schramm TXD 130
- Borterra-designed sub, drilling floor, mast support & pipe-handling systems



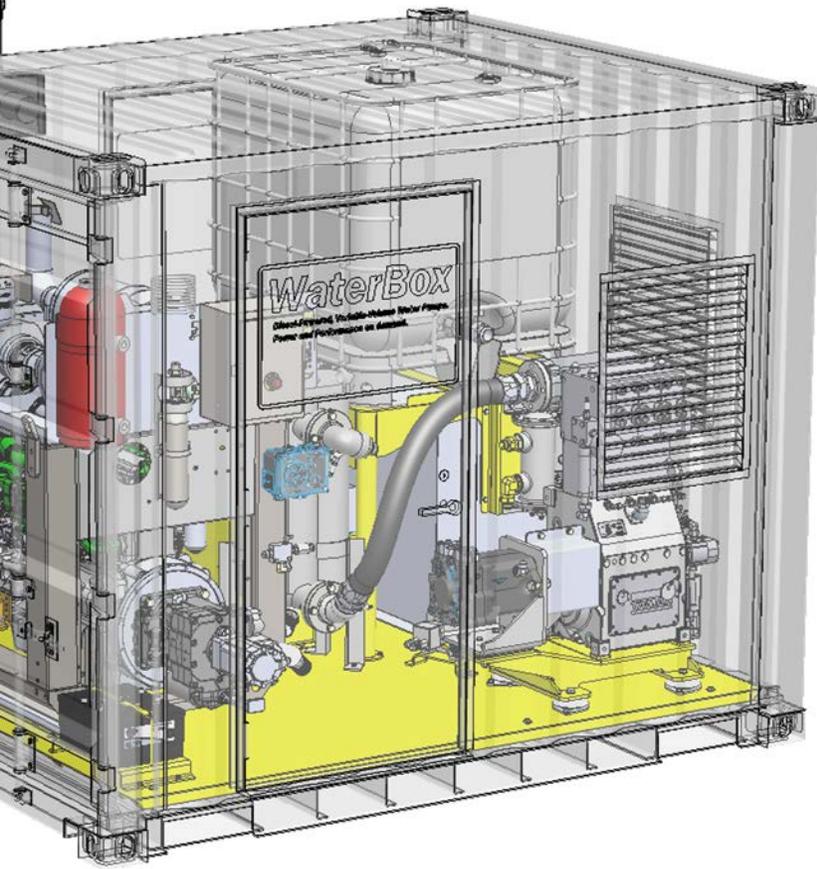
Robotic rod handling

Borterra RodBot™

- Eliminates Manual Rod Handling
- Keeps workers safe from injury
- Handles drill rods & casing sections
- Set the drill rod position once, then hit 'repeat'
- Standalone or truck-mounted



High-pressure pumps



Borterra WaterBox™

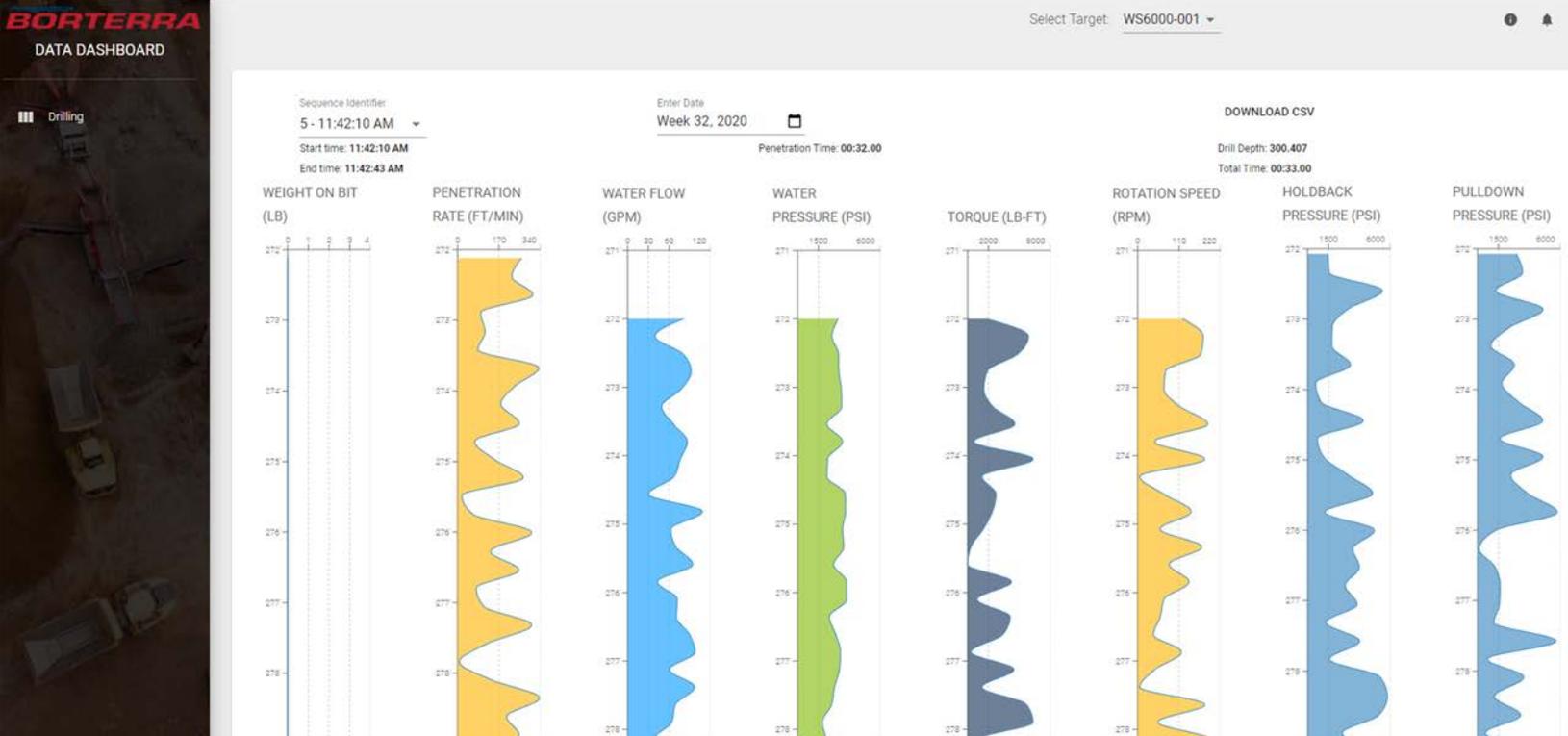
- High-pressure water pump
- Self-contained 'container' unit
- Designed specifically for drilling
- Diesel- or electric- powered
- For DTH water hammer drilling

Water filtration systems

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With water hammer drilling, water filtration and recycling reduces the need for clean water and diminishes environmental impacts.

- Scalable, from 100 LPM to 1000 LPM
- Particle size and silt density meet or exceed water hammer OEM specifications
- Modular, custom-designed systems

Real-time drill data



**Drill data is valuable.
Collect and record the drill
data you need to do the job
better and cheaper.**

- Drill & rig operational data collection
- Web-based interface: access anywhere
- Store and download data for analysis

Customization, upgrade & repair

Modify, upgrade or repair your existing equipment.

- Hole size change
- Voltage change
- Rod-handling add-ons
- Controls upgrades
- General repairs



**How can we
help you?**

**1(705) 443-8440
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