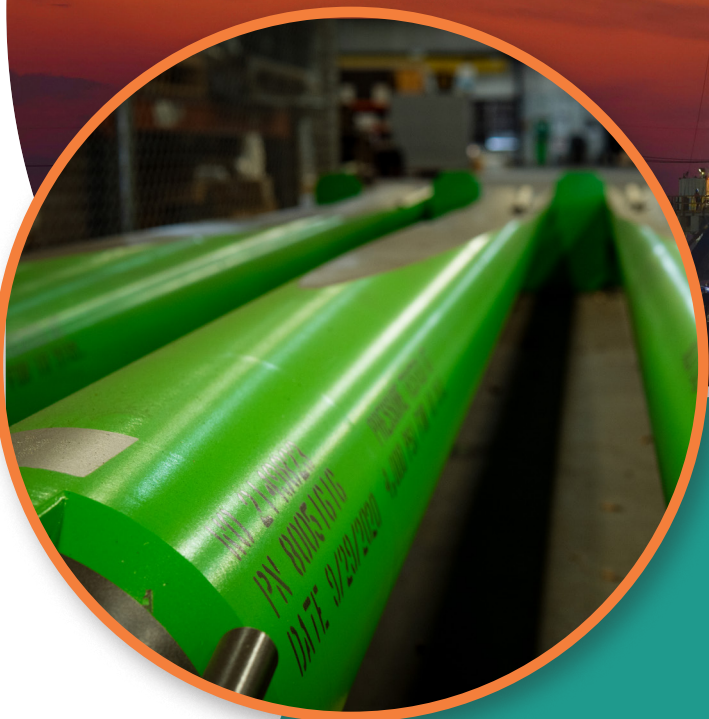


GEOHERMAL SOLUTIONS

Comprehensive Capabilities



TrackMaster Select™

The TrackMaster Select whipstock system has the widest array of configuration options on the market today, each tailored to specific customer requirements.

Each configuration option offered

is the result of continuous engineering

improvements and experience gained over many years. It is an engineered solution to provide customers with a stronger, faster, and more reliable sidetracking system.

Applications

Four categories define the configuration options for the TrackMaster Select system:

Geothermal

- High temperature anchor
- Mill design and cutting structures for high UCS formations

Conventional Sidetracks

- Single casing
- Hard formation
- Extended rathole
- Elongated window

Advanced Sidetracks

- Heavy wall, high strength casing
- Corrosion resistant alloy casing
- Lowside exit
- Dual and triple casing

Specialized Sidetracks

- Custom multi-lateral junctions
- Flow by access configurations

Features

Mills

- Bi-mill, tri-mill and quad-mill configurations

Whipstocks

- Unique multi-ramp profile offers rapid cut out and extended full gauge window

Anchors

- Hydraulic, mechanical, retrievable packer, permanent packer
- All anchors secure the system in the wellbore and prevent movement

Benefits

- Application specific configuration options
- One-trip solution saves time and cost
- Comprehensive planning process
- Increased durability and reliability
- Improved milling efficiency in a broad range of casing and formations
- Ability to set in low-flow and total loss environments

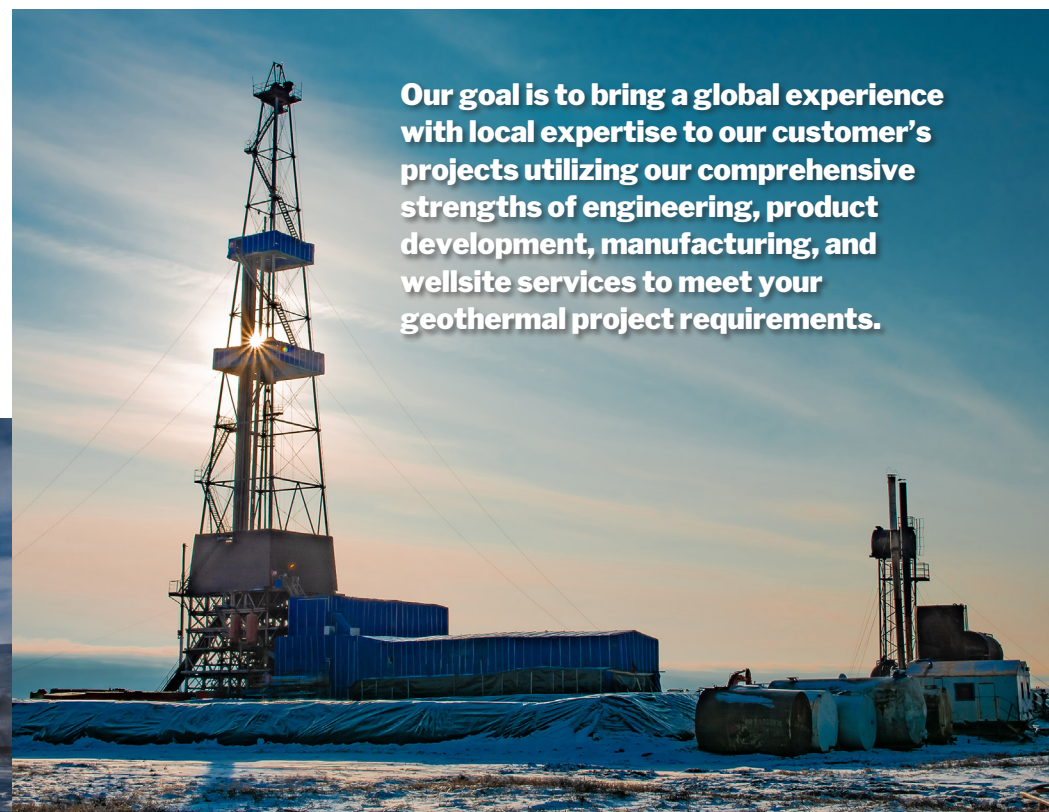
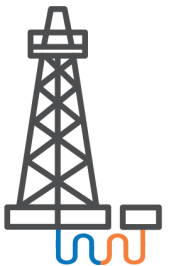
GEOHERMAL SOLUTIONS

Wellbore Integrity Solutions provides high-temperature products and services for geothermal development worldwide by offering a complete range of capabilities and when necessary, forging strategic alliances with others in the service industry. From concept studies to completion of your geothermal well, Wellbore Integrity Solutions draws on more than 50 years of geothermal experience, reliable equipment, and specialized technologies to safely and efficiently tap into this clean, renewable energy source.

Our comprehensive products and services portfolio delivers reliable and predictable performance every time.

Our technology solutions overcome many industry issues when delivering geothermal projects on time and on budget. We design and test our products to work within the severest of well conditions, such as those found within geothermal environments. We strive to ensure all our customers have the utmost confidence in the tools we place in their wells and we take pride in delivering customer satisfaction on the most challenging projects.

Wellbore Integrity Solutions is ready for all your geothermal requirements.



Our goal is to bring a global experience with local expertise to our customer's projects utilizing our comprehensive strengths of engineering, product development, manufacturing, and wellsite services to meet your geothermal project requirements.

Geothermal Solutions

DRILCO® Tubular Solutions

Inspection and Repair in the Field or the Shop

Periodic inspection, which is important for prevention of drill string failure, is available from DRILCO at the rig site and at DRILCO service centers worldwide.

We offer API-approved inspection services for drill collars, drill pipe, Hevi-Wate™ transition drill pipe, and other premium downhole tools through a worldwide network of service centers established to ensure global coverage.



Inspection Services

- Complete thread inspection (API-TI)
- Visual inspection (VT)
- Dimensional inspection (DI)
- Magnetic particle (MT)
- Liquid-dye penetrant (PT)
- Ultrasonic inspection of rotary shouldered connections (UT-RSC)
- Ultrasonic inspection of high-stress areas and tube upsets (UTEA)
- Electromagnetic inspection (EMI)
- Full-length ultrasonic inspection (FLUT), available at select DRILCO locations

TECHNOLOGY PARTNERS

Well-SENSE

Together Wellbore Integrity Solutions and Well-SENSE offers FiberLine Intervention (FLI) tools and services globally for geothermal applications. FLI is a low-risk wellbore surveying solution, which rapidly delivers high quality insights. It is often employed in surveys where other options prove unsuitable due to well accessibility, location, cost, application challenges, data requirements, temperature or speed of response.

FLI uses fibre-optic technology to capture distributed temperature and distributed acoustic profiles along the length of the well in real time. It provides key measurements, pinpoints areas of interest and monitors changing conditions, irregularities, anomalies or events in a single well or set of wells simultaneously.

Intervention cost and run-times are dramatically reduced compared to other forms of well surveillance. Surveys can be completed in around two hours from arrival and requires only one person at the wellsite. The equipment is hand-portable, compact and lightweight with a tiny wellsite footprint. The FLI probe and fibre are single-use and sacrificial so can be left in the well at the end of the survey.

What is FLI?

- Probe — A single-use, weighted probe is launched from a pressure containing package at the wellhead and free-falls into the well
- Sensors — One or more bare optical fibres, acting as distributed sensors, unspool from the probe as it falls. Additional electronic sensors can also be included in the probe.
- Data — A surface acquisition system immediately records and processes the data gathered by the sensors.

Benefits

- Speed — FLI is a rigless system and takes only a few hours to complete a project, from rig-up to rig-down, which translates into substantial savings.
- Tiny footprint — FLI uses very little space and few services at the well site.
- Data rich — Fibre-optics are highly sensitive and provide quality data. Speed and simplicity do not come at the expense of capability.



Technology Partners' photos are courtesy of Well-SENSE and Gunnar Energy Services.

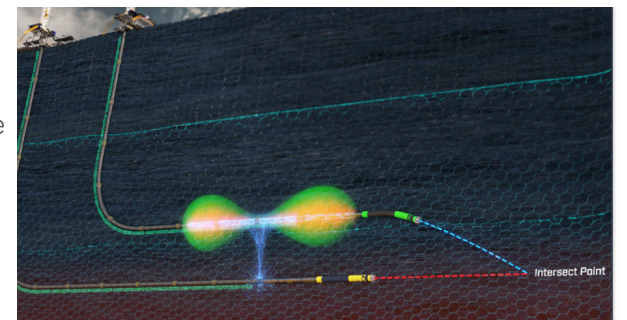
Gunnar Energy Services

Wellbore Integrity Solutions in partnership with Gunnar Energy Services, delivers high-end relative wellbore positioning service often required for closed-loop geothermal applications.

We provide customized fit-for-purpose magnetic ranging solutions for precise first-attempt wellbore intersections. Our team of technical experts has been at the forefront of ranging technology and application since its early stages. We have been involved in the first geothermal closed-loop construction in history, and are now offering the new generation of the most robust ranging technology suitable for harsh geothermal drilling environment.

The technology ranges from conventional rotating magnet method to ranging-while-drilling system based on formation current injection for most efficient simultaneous drilling and ranging operations.

Our measurement probes are based on solid-state high-temperature sensors that are tolerant to extreme vibrations common in geothermal formations.



New generation active magnetic ranging-while-drilling concept for simultaneous drilling operations in closed-loop geothermal applications.



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