



**TECHNOLOGIES FOR TIME REDUCTION AND  
IMPROVING THE EFFICIENCY OF WELL  
CONSTRUCTION**

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## About us

GERON LLC is a Russian oilfield services provider that has been operating since 2018.

Since 2021, the company has been a resident of Skolkovo Innovation Center.

The goal of GERON is to provide services that meet international high quality standards and develop oilfield services Worldwide.

The company's staff is 100% Russian specialists with 10+ years of experience in biggest oilfield service companies in the following areas:

- ✓ Drilling & well engineering
- ✓ Casing running
- ✓ Well cementing
- ✓ Fishing
- ✓ Casing while drilling



## Activity

**The main activities of the company nowadays are:**

- ✓ Casing running in difficult borehole conditions with CRT
- ✓ Casing while drilling
- ✓ Rotation of liner and casing while cementing process
- ✓ Selling & providing of casing accessories: Float collar, Centralizers, Reaming shoes, Torque Exceeding rings





## Casing Running Services

### Casing running service with CRTi tool including:

- ✓ Torque and Drag analysis, Roadmap preparation
- ✓ Engineering on field support during job process, hazard analysis and risk control
- ✓ Visual inspection of casing thread & body
- ✓ Reciprocate, rotate, fill, circulate with CRT to reduce time and optimize process
- ✓ Additional equipment - thread protectors, stabbing guide, thread lubricants



## Casing Running Services

**Casing running tools (CRT)** are designed for casing running or drilling with top drive equipped rigs to enable connection make-up, break-out, circulation and rotation, increasing the chance of getting casing to TD the first time in difficult conditions.

CRT significantly increases success rate of running the casing to target depth, in comparison with the conventional casing running method:

- elimination of a dedicated trip to prepare the wellbore before casing running,
- filling up and circulation through casing while running process,
- rotation and reciprocation of casing string,
- making-up of casing connections

Getting safely to the bottom is the bottom line. If you can avoid stuck pipe, you can avoid extra costs and risks. In combination with properly selected equipment and accessories as low-friction centralizers, reaming shoes, etc., success rate to set the casing on target depth tends to **100%**

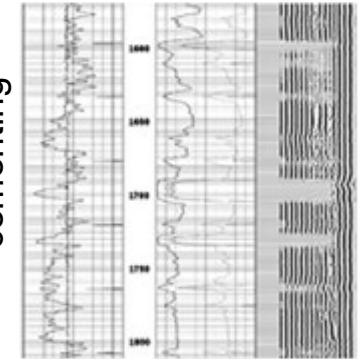


## Dynamic Cementing

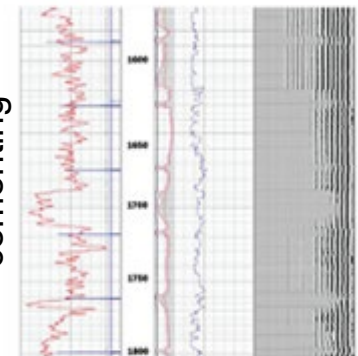
### Rotating casing while cementing is helpful to :

- ✓ Cementing quality improvement,
- ✓ Helps to remove mud that would otherwise be trapped on the narrow side of an eccentric annulus
- ✓ Dynamic standoff - Pipe movement increases the effective volume of drilling fluid moving in the annulus
- ✓ Eliminates common cementing challenges – zonal isolation, static fluid buildup
- ✓ Anti-gas migration
- ✓ Cost efficiency and acoustic cement-bond log quality improvement

CBL w/o dynamic cementing



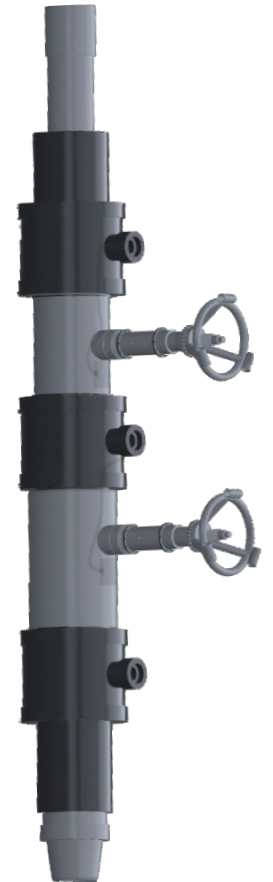
CBL w/ dynamic cementing



## Dynamic Cementing

### Casing Rotating Cement Head Details and Benefits

- ✓ Quick connects for ease of maintenance, tool can be **prepared in 15 min** after hole being cased
- ✓ Simple & reliable plug launch. Quick, quarter turn plug release system with **no need to unscrew release plug**
- ✓ Special designed swivel allows for circulation and rotation at high RPMs for **extended periods of time with no decrease in reliability**
- ✓ Safe Working Pressure **500 atm** allow to activate expandable steel external casing packer (activation pressure approx. 400 atm)





## Casing While Drilling

- ✓ Construct vertical section while casing in one run
- ✓ Allows to eliminate the conductor casing and avoid additional operations and costs – logistics, services, materials
- ✓ Casing smears the drill cuttings into the borehole wall sealing pores and fractures – plastering effect
- ✓ Cementing quality improvement, porosity ratio decreasing
- ✓ Greatly increases performance through time savings
- ✓ Maintain vertical hole (less 1 deg inclination on TD)
- ✓ Reduction of risk of washout and minimizing time exposure in the permafrost
- ✓ Less resources involved in section construction machinery, equipment, and transport.
- ✓ Carbon footprint reduction
- ✓ Does not require drilling rig upgrades/modification



## Casing While Drilling

- ✓ Selection / manufacturing of drillable bit design based on application specifically for drilling conditions
- ✓ The cutting structure of the bit can be assembled with 13 / 16 / 19-mm PDC cutters
- ✓ Interchangeable nozzle to optimize H.S.I. and hydraulics
- ✓ Eliminate dedicated drill out runs



## Casing While Drilling

### **Torque Ring**

- ✓ Designed for Buttress or OTTM (GOST & API) connections
- ✓ Increases torque capacity of API connections
- ✓ Rings fill the gap between the pin tips, providing a direct compressive load path to protect threads from overload.
- ✓ Extends the life and durability of pipe and API connections
- ✓ Minimizes damage to tapered threads
- ✓ Allow to exceed operational torque of connection up to 300% from conventional make up torque
- ✓ Torque ring optimizes your performance just like a premium connection does, but costs significantly less



## Casing Accessories

**Providing and technical support of casing running equipment and accessories:**

- ✓ Reaming shoes for all sizes and wellbore conditions
- ✓ Centralizers (integral blade, hydroformed) and cementing turbulators
- ✓ Torque rings



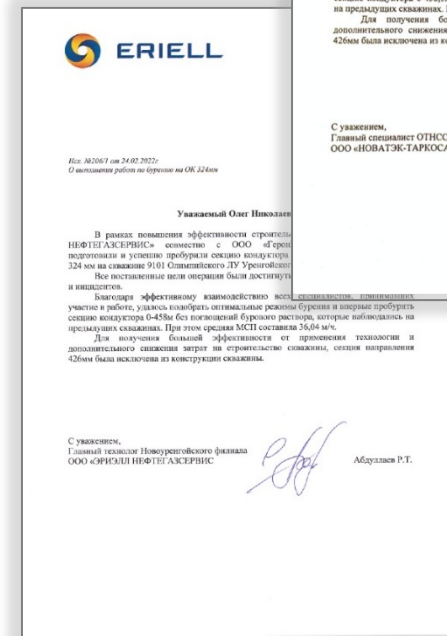
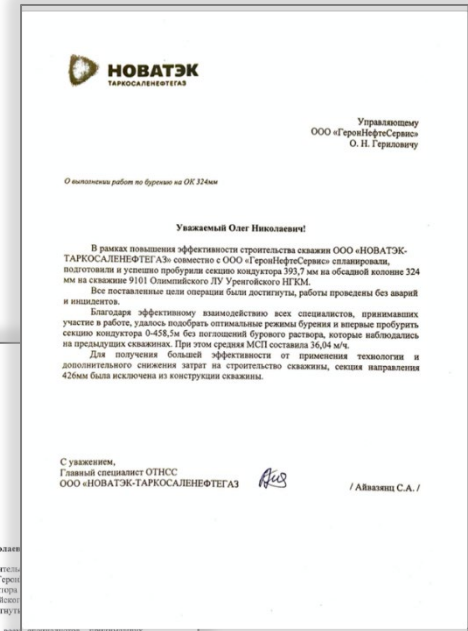
## Experience and Recognitions

**Well 9204 Urengoiskoe field (Western Siberia), drilled interval 0-450m**

- ✓ 16.75" casing being eliminated (conductor section)
- ✓ ROP **45,1 mph** (till 298m AVG ROP were **79,4 mph**)
- ✓ Operation time **1,06 days**. Time reduction from conventional **2,4 days**.
- ✓ Drilling out of casing shoe in **26 min** with working BHA

**Well 9101 Urengoiskoe field (Western Siberia): drilled interval 0-458m**

- ✓ 16.75" casing being eliminated (conductor section)
- ✓ ROP **36 mph**
- ✓ Solving the mud losses problem





## Contact Us

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