DUAL ROTARY DRILLING
MY EXPERIENCE

• Years of drilling experience
• Manufacture Drilling rigs since 2000.
• Traveled the world training with drilling
• Manufacturing drilling fluids & additives.
MY INSPIRATION

• Drilling runs in my blood! (Family)
  • Friends
  • Drilling community
WE ARE ALL ONE BIG FAMILY!
DUAL ROTARY DRILLING
WHAT’S THE DIFFERENCE?

The addition of the lower rotary drive
WHAT DOES IT DO?

• Rotates casing
WHAT DOES IT DO?

Provides pull down & pull back forces via hydraulics to the casing
The Lower Rotary Drive is also used to make and break tool joints and can be used as a bit breaker.
TOP DRIVE

The top drive provides pull down force for the drill string.
TOP DRIVE

The top also rotates the drill string and tooling in the opposite direction, providing maximum cutting power.
Casing shoes or ring bits welded onto the casing, essentially transforming a blunt object into an effective cutting tool.
Casing shoe teeth come in a variety of different profiles and cutting structures.
DUAL ROTARY DRILLING
MORE CONTROL

- Ability to drill ahead, flush, or behind the casing
DUAL ROTARY DRILLING
MORE CONTROL

Drill behind for sampling or to control fine formations such as sand and gravel.
DUAL ROTARY DRILLING
NEVER FEAR THE BOULDER!

Combined, the rotary and crushing action
Makes short work of boulders, and creates a
Very straight hole.
DUAL ROTARY DRILLING DISCHARGE CONTROL

- Direct your cuttings to a safe and convenient location
- Accurate sampling
TOP 10 REASONS TO OWN A DR RIG
EXCELLENT OVERBURDEN PERFORMANCE

- Drill cased holes quickly and easily
- Dual rotary drilling is by far the fastest and most effective techniques
- Drill more holes!
FLEXIBILITY

- Configure for mud
- Reverse circulation
- Flooded reverse circulation
STRAIGHT HOLES

- Reduces stress on casing and welds
- Ideal for water wells
- Geothermal
- Exploration
Lower rotary drive is efficient at pulling back casing, which simplifies the process of exposing well screens or abandoning a well.
Dual rotary drilling doesn’t require any different drilling tools. Equip your drill string with conventional DTH hammers, tricone bits or drag bits.
DISCHARGE CONTROL

The cuttings are directed through a discharge swivel, which allows you to safely control the location of the dumping or monitoring.
EASE OF MAINTENANCE

- Hydraulic feed system that is directly linked.
- Eliminates the need for maintenance of chains, sheaves, or sprockets.
- No load on the mast crown, enabling a straightforward and lightweight mast design without compromising on pullback capability.
NOISE REDUCTION

When compared to traditional drilling methods, dual rotary generates significantly less noise, allowing you to expand into areas sensitive to sound pollution.
SPEED

• Dual rotary drilling is by far the fastest method of drilling and tripping available today.
• Greatly increases production
GREATER DEPTH CAPACITY

Derex DR Drills have reached depths as far as 1800 feet.
APPLICATIONS

WATER WELL
GEOTHERMAL
RC EXPLORATION
VISIT OUR WEBSITE

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DR RIGS TO SUIT ANY NEED