



Well Conveyor

Less Gear, More Reach

-Efficient Well Access for a Changing Industry

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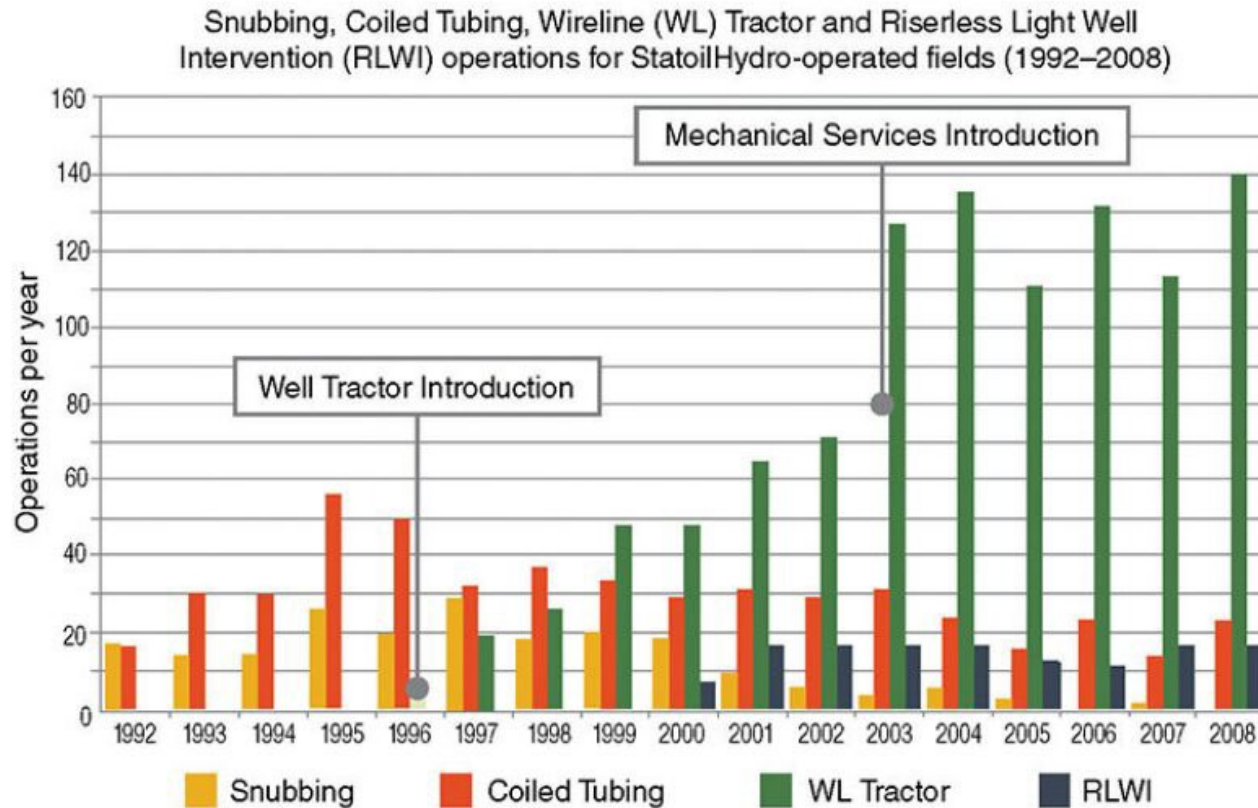
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The need for efficiency



(Image by StatoilHydro - <https://jpt.spe.org/twa/development-wireline-tractor-technology>)



How will this graph look in the future?

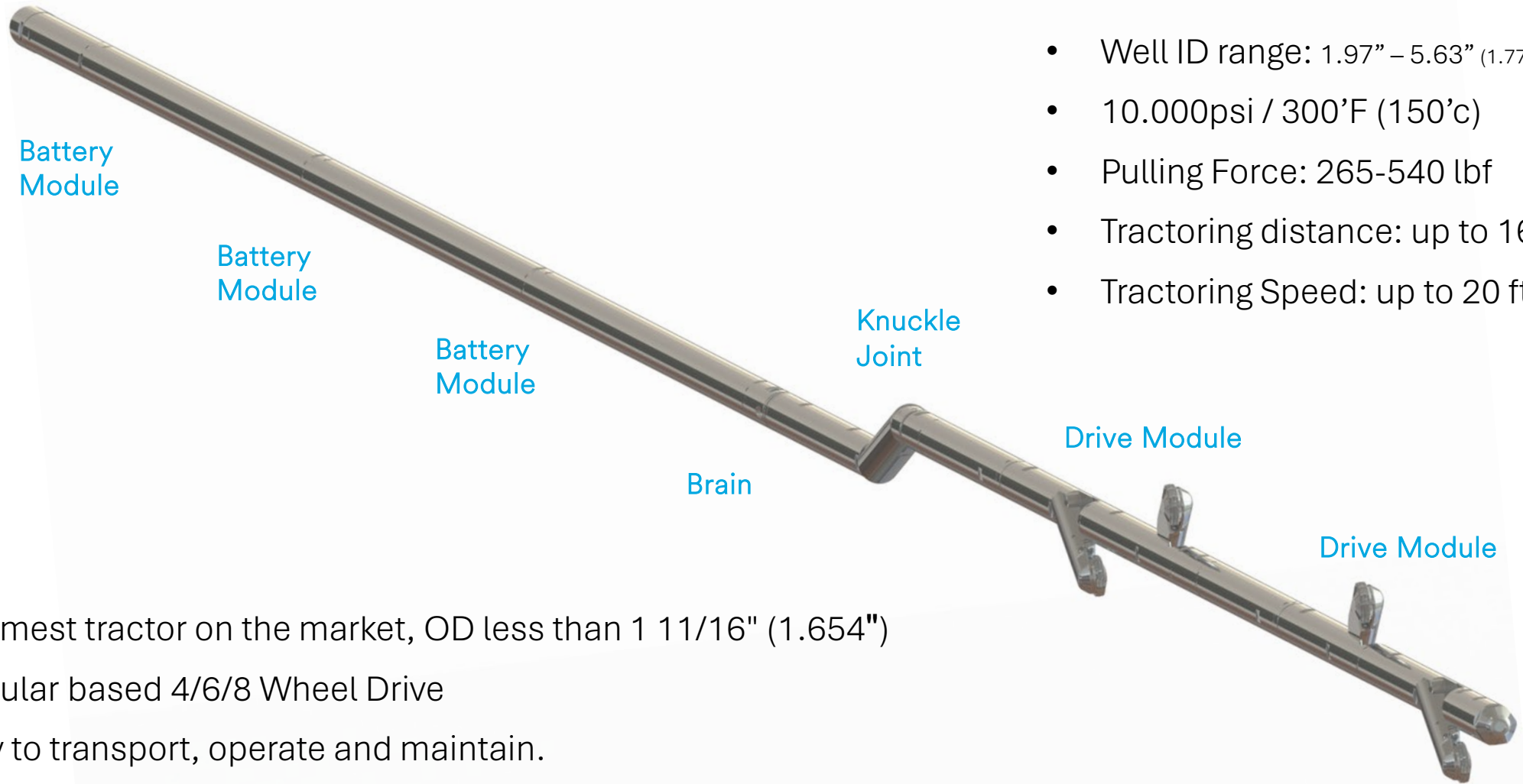
Contribution to the Future

Slickline in horizontal wells

- Lower equipment footprint, less POB, more efficient operations
 - Less emissions from operations and transport
- Lower cost
 - Extending productive life of more fields



Technical Overview



- Well ID range: 1.97" – 5.63" (1.77" min restriction)
- 10,000psi / 300°F (150°C)
- Pulling Force: 265-540 lbf
- Tractoring distance: up to 16,400 ft
- Tractoring Speed: up to 20 ft/min

- Slimmest tractor on the market, OD less than 1 11/16" (1.654")
- Modular based 4/6/8 Wheel Drive
- Easy to transport, operate and maintain.
- Cost efficient Solution for any type of cable

Operational capacities?

- Slickline potential, but above 60' inclination
 - Need those extra feet, and doubt that rollers is sufficient?
 - Tractor has proven record of climbing operation in 97 degree in US well.
 - S-shaped wells returns to standard slickline operational capability after passing the deviated section.
- Logging operations is the optimal application
 - Most types of logging operations can be done on memory with Slickline
 - Live surface read out of CCL / pressure / Temp / Inclination / Accelerometer when run with surface control on digital slickline
 - Live surface read out of other logging tools when run in memory mode on digital slickline
 - Wire feed through allows for live surface read out from tools below tractor if run on E-line.
- Light mechanical operations
 - Tractor can be used in combination with other memory tools such as stokers, punchers and cutters from Kaseum/Razor etc.
 - Plug setting can be done with memory operated setting tools or real time via e-line / digital slickline
- SlimHole perforation - Horizontal perforation on slickline
- Lower cost tractor solution on E-line
 - Slim holes or shorter intervals preferable.



How does it work?

by Smart Programming

Can you ever be 100% certain of downhole conditions?

In house developed software and onboard sensors ensures flexibility.

- *Activation only when needed, not limited by strict time schedules*
- *Abort function that can be activated at any time, even with no electric communication from surface*
- *Crawl-mode to overcome downhole restrictions*

-Prepared for the unexpected-



Value for UK Operators?

- Lowering the operational cost per well
 - Less POB
 - Lower cost of Slickline VS E-line
 - Lower cost on memory tractor VS standard e-line tractors
 - More efficient operations
- Contributing to meet enviromental targets
 - Less direct emissions from transport and operations
 - Extending the productive life of more fields reduce need for new wells
- Accessing wells previously not accessible by tractor





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