

Shell & Renegade at the Forefront of the Safety Movement with Revolutionary New Equipment That Every Oil Company Can Start Using Today

“(with RigLock™) Frac doesn't wait on wireline and, wireline doesn't wait on frac.”

RENE ARCES, Completions & Well Intervention Engineer for Shell

MANSFIELD – MANSFIELD, PA, October 16, 2017

With 18* units passing through the hands of their trained operators, Renegade Services, the largest independently owned wireline company in the USA and the leading service company for RigLock™, has seen the ground breaking impact of this true innovation first hand and is currently running them for their own major competitors. The VP of Operations, Randy Cassady played an integral role in the creation and especially implementation of the RigLock™ system.

The greatest impact can be summed up into 5 points

- RigLock™ makes it possible to remotely remove and replace the lubricator and the nightcap eliminating the need for a man in an arial lift manually removing and replacing suspended heavy equipment.
- The RigLock™ system in accompaniment with Renegade Services has completely eliminate NPT on Zipper pads averaging 15 minutes between fracs*
- Renegade Services has an preferential relationship with the manufacturing company for RigLock™, Frank Henry Equipment (FHE)
- RigLock™ has been on location for 550+ days with Renegade Services*
- RigLock™ can be customized to no end for specific operations

- more -

*as of October 2017

Birth of RigLock™

The eureka moment came in a Shell safety meeting where they asked all in attendance to think out of the box about safety, to come up with innovations in safety or to minimally begin to incorporate forward thinking about how to improve safety. Randy was in attendance and he immediately recalled two of the worse incidents Renegade had seen. Both incidents involved a man in an arial lift. The problems turned into ideas, the ideas into conversations and the conversations into prototypes. For this, Randy called on the quality driven team at Frank Henry Equipment (FHE) in Fruita, Colorado, long time friends of Randy's and Renegade's. Through Randy and FHE's collaboration, the RigLock™ was born.

How it works

<https://vimeo.com/renegadewls>

The fastest way to comprehend how the RigLock™ functions and where it is used in the hydraulic fracturing process is to watch these simple, short, professional videos.

Safety

The RigLock™ was initially created for the sole purpose of safety; to remove men from the danger that surrounds removing and replacing the nightcap and lubricator manually, 40+ feet in the air. Removing a man from an arial lift and out of the red zone is an obvious safety improvement that RigLock™ creates, and it should not be understated, but there are other impactful safety benefits that are often overlooked. For instance, pinch points, lifting hazards, dropped objects, working from heights and working under suspended loads. **It is easy to see how RigLock™ could easily become a standard for oil companies, and there are already a group of early adapters who will no longer operate without it.**

Efficiency

Efficiency was a bonus. Its an easy sell on safety alone, but its a no brainer when we talk about efficiency. RigLock™, when deployed and operated by the right team, has the potential to remove completely, the cost of NPT (Non Productive Time) on a zipper pad where there are multiple well heads. Renegade Services has run so efficiently with RigLock™ that the NTP clock never started ticking. Renegade averages 15 minutes* between fracs on zipper pads.

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