

From: Tim Marvel <timmarvel@sef.energy>
Sent: Friday, October 9, 2020 10:32 AM
To: Brian Wiesner; Austin Johnson
Subject: Continuous Pumping Webpage
Attachments: Continuous Pumping _ Downing DRAFT v1.pdf

Gentlemen

Please take a look at this and comment. Please pay close attention to the claims. Are they correct? Over-stated? Missing any? Thank you.

Regards,

Tim Marvel, P.E.

Vice President, Business Development and Technology

[SEF Energy](#)

2101 SE 18th

Oklahoma City, OK 73129

4741 World Houston Pkwy

Houston, TX 77032

M: 936.520.3482

Follow us on LinkedIn

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Introducing Continuous Pumping

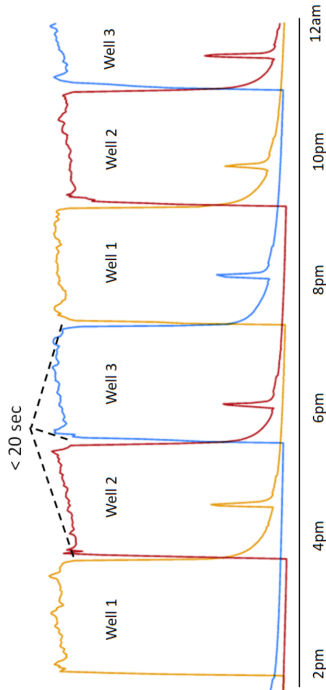
Instant Transitions. Pump continuously stage after stage.

Freedom Series with FS iControl

The Freedom Series Completion System with FS iControl enables instant transitions between stages, allowing your pumps to run continuously, dramatically increasing completion rates and reducing cost per well. By automating the hydraulic gate valves and integrating automatic greasing, along with Downing's proprietary algorithms, FS iControl brings a new level of efficiency to your completion operation.

Do your Pump Curves look like this?

FS iControl's proprietary algorithms integrated with the FS Completion System allow our customers to simply slow their pumps, transition the zipper valves from well to the other, and then shut-in the first well while ramping up the pumps to treatment pressure on the second well. The transition is instantaneous and the total time between stages at treatment pressure is as fast as 20 seconds.





Zero Transition Time

- Reduces traditional transition time to zero
- Stage-to-stage time (at treatment pressure) in 20 seconds or less



Automatic Greasing Every Time Valves are Actuated

- Reduces greasing costs by up to 90% with data to prove it
- Grease to manufacturer specifications
- Fills the grease cavity with exact amount of grease. No more, no less.
- Real-time data output: amount of grease, time-stamp, and valve greased
- Reduces NPT incidents by ensuring valves greased properly



Reduce Employee Exposure

- Eliminates manual operation of valves
- Requires fewer personnel onsite

APPLICATION

- Multi-well zipper fracs using the [FS Completion System](#)

KEY FEATURES & BENEFITS

- Reduces overall cost per well
- Continuously pump stage to stage
- Automatically greases valves to manufacturer specifications
- Reduces personnel on the frac site

Interested in learning more about Continuous Pumping and the [FS Completion System](#) with FS iControl?

CONTACT US

Or Call Us Now: (405) 276-3180



Delivering *freedom* from...



Unplanned Costs	Downtime	Red Zone Risks