

2021 International Sucker Rod Pumping Virtual Workshop

February 8-12, 2021

Advances In Dynacard Acquisition And Processing: A Fully Autonomous Instrument

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Artificial Lift R&D Council **The Problem** ()Measurement Sucker Rod Pumping Load and position 53% YPF production \bigcirc Downhole card calculation CPL 7000+ wells Edge computing dowhole card ********** 30% online Communications Ċ Data transmission to SCADA

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$\underline{\bigcirc}$	Measurement
	Load and position



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CPU

Downhole card calculation

Edge computing dowhole card





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Communications
Data transmission to SCADA

TEC - Privada Artificial Lift R&D Council



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R&D process, to product













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Field test: semi-industrial prototype (6 months run)

Field test: semi-industrial prototype





30 min installation10 min downtime





Y-DIN vs. SAM-GE/Lufkin



Industrial product phase

YPF Manantiales Behr Chubut, Argentina



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Industrial product phase

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Conclusions



Minimizes Instrumentation cost

Downtime 10min

Industry first, all in one, single board dynamometer unit

New way of doing things

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