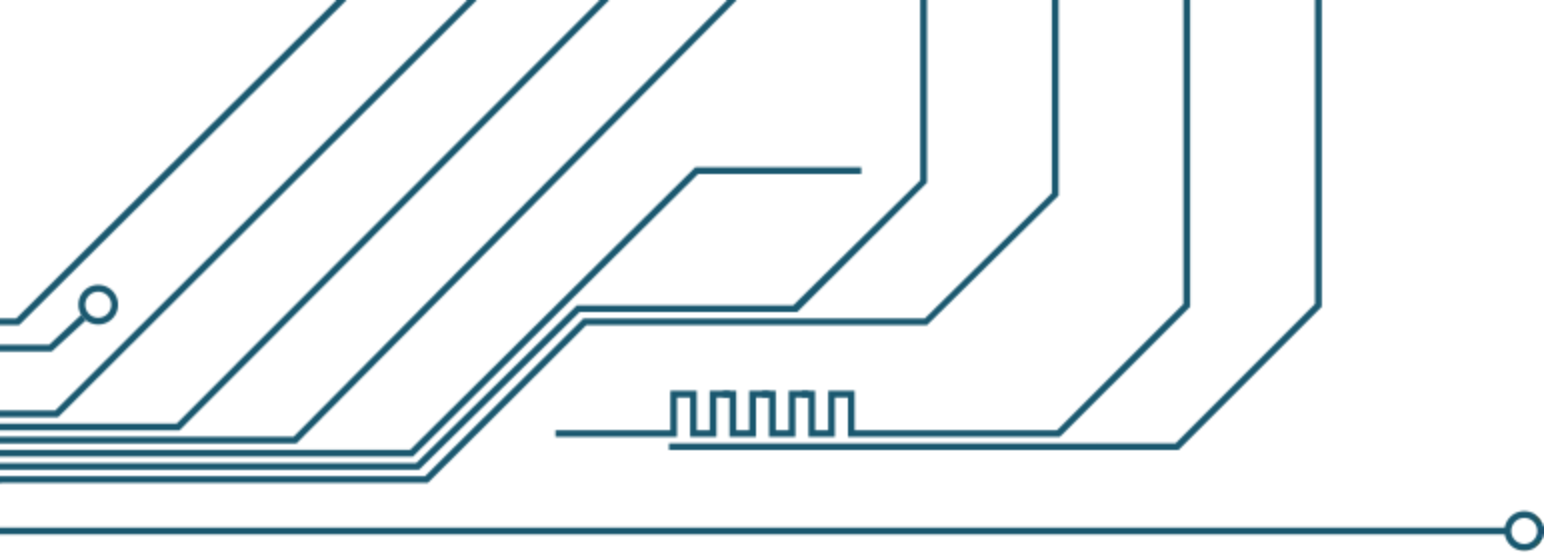

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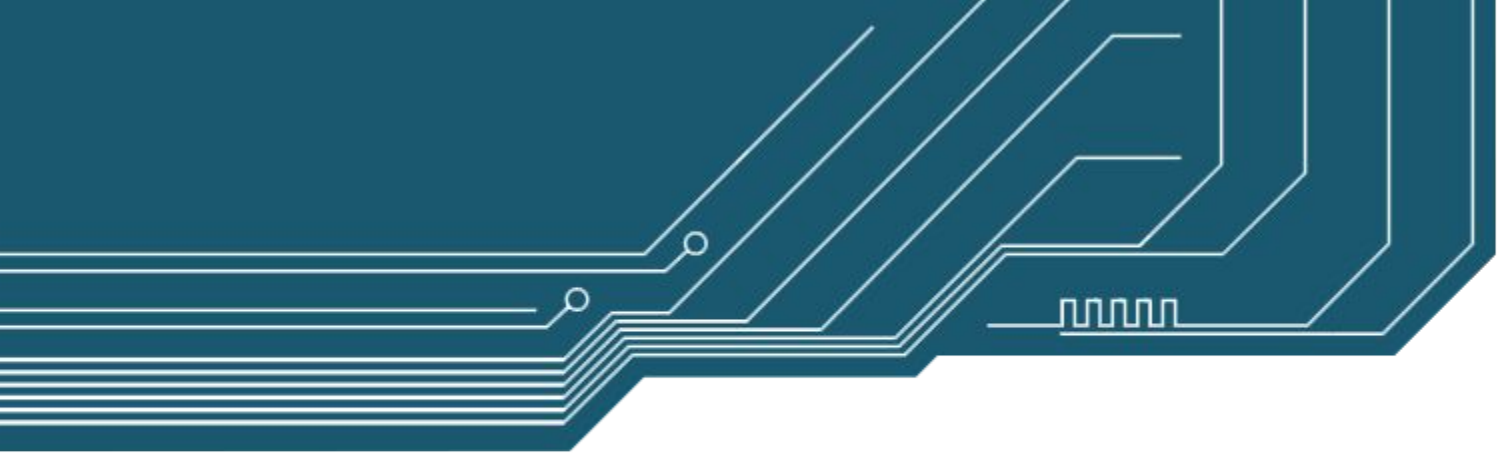
engineering solutions.



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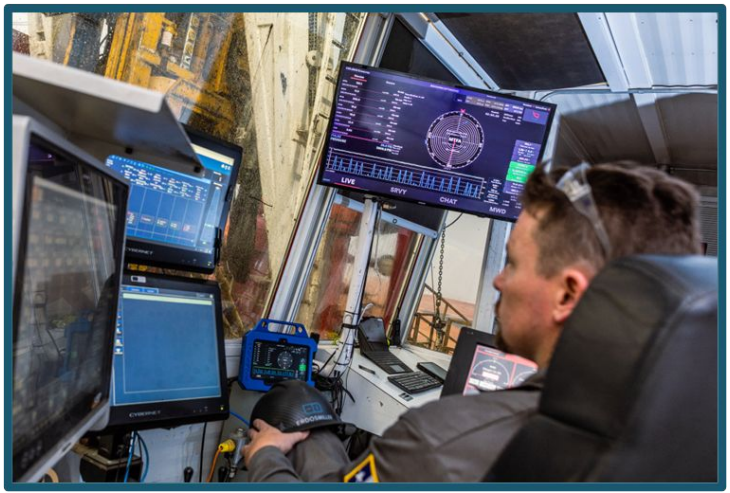
OVERVIEW

- **Who we are**
- **Erdos Miller Product Features**
- **Demo**
- **Q&A**



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OVERVIEW OF FEATURES

- **Continuous Inclination/Azimuth**
- **Pulse Overdrive**
- **BabelFish**
- **Manual Sync**
- **MEM Sensors**
- **Survey Compression**
- **Azimuthal Gamma**

FEATURES – CONTINUOS INCLINATION/AZIMUTH

- **What are the benefits?**
  - Continuous inclination and Azimuth allow for constant monitoring of the bore hole direction without stopping for surveys.
- **FAQ**
  - Does it work well?
    - Yes, our continuous azimuth is accurate.
  - Does your continuous inc/az work north/south?
    - Yes, our continuous azimuth works just as well NS as EW.
  - Are there any drawbacks to continuous azimuth?
    - When we drill exactly along the dip angle + or – 2.5°

Case Study

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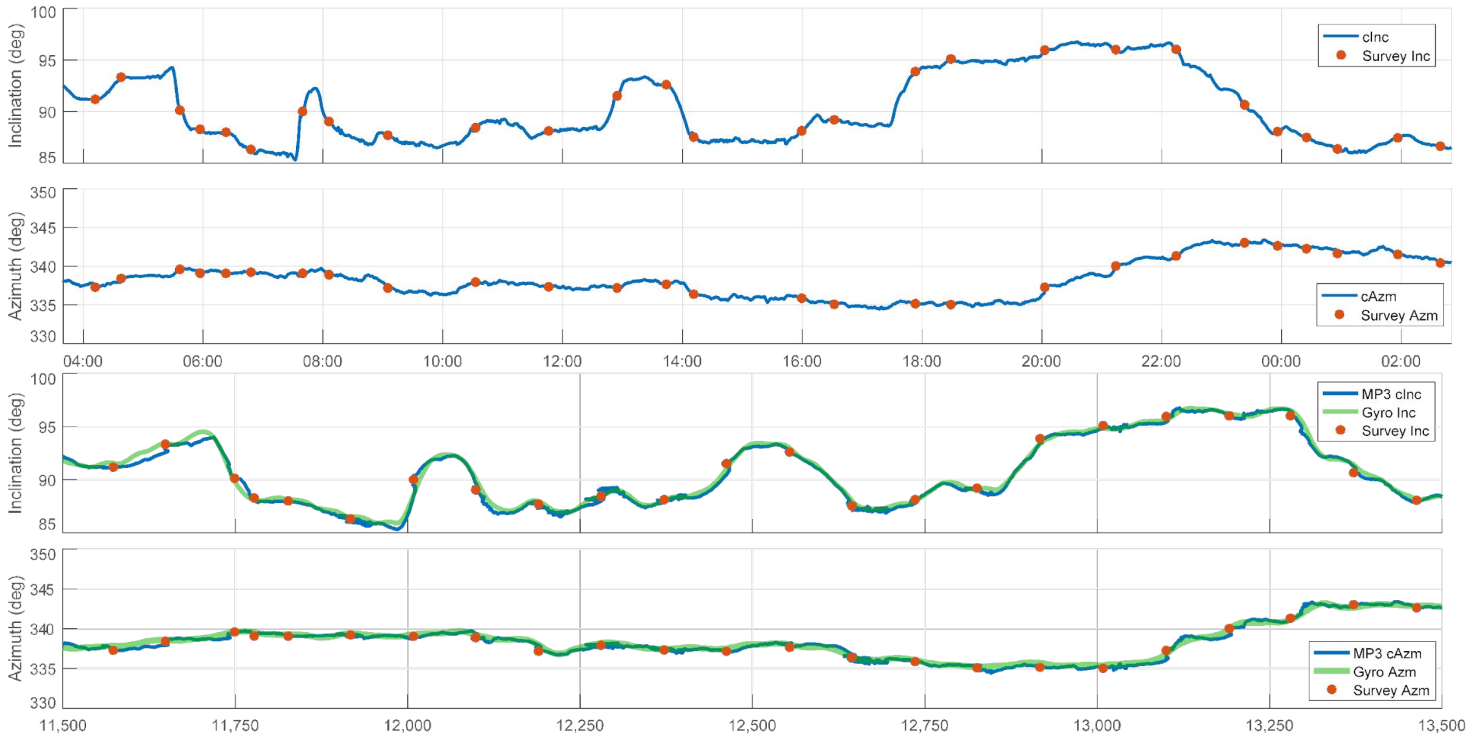
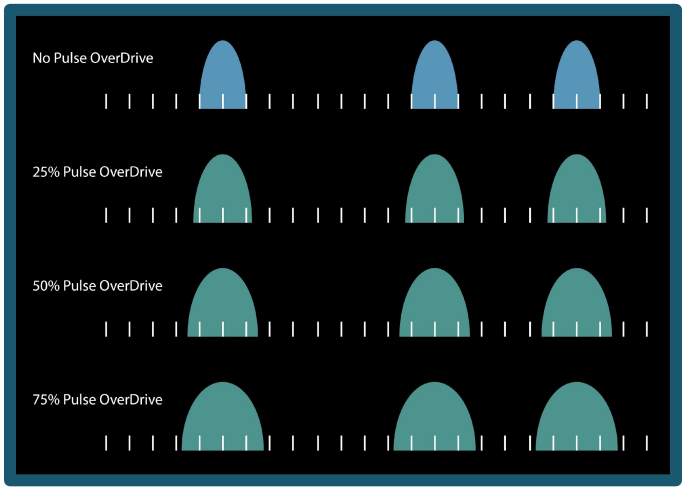
FEATURES – CONTINUOS INCLINATION/AZIMUTH



FEATURES – PULSE OVERDRIVE

- **What does it do?**
  - Pulse Overdrive allows you to drill deeper with faster pulse widths.



[Pulse Overdrive App note]

FEATURES – BABELFISH

- **What are the benefits?**
  - Allows customers to connect MicroPulse directly to Schlumberger's Rotary Steerable systems for real-time comms.
  - Significantly increase NPT.
  - Saves time and money for the operator and more value provided by the directional company.
- **FAQ**
  - Do you need a translator? Any additional electronics required?
    - No, you do not. The MicroPulse connects directly to Schlumberger’s Babelfish electronics.

FEATURES – MANUAL SYNC

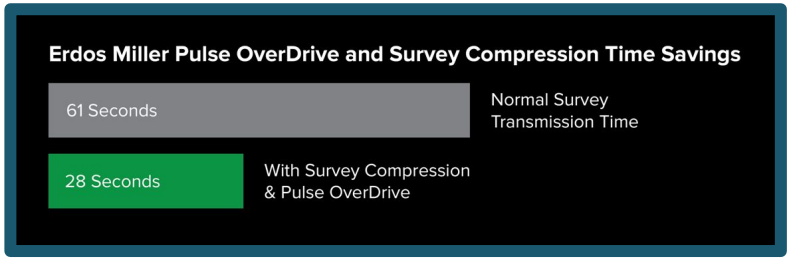
- **What are the benefits?**
  - No MWD sync detector is perfect! Manual Sync saves NPT through allowing the rig to avoid a recycle of the pumps.

FEATURES – MEMS SENSORS

- **What are the benefits?**
  - Provides a better continuous inclination/azimuth.
  - Allows for a higher dynamic range.
  - Higher level vibration than a traditional sensor.
  - More robust than their previous counterparts.
- **What are the disadvantages of MEMS?**
  - Recalibration may be required for MEMS sensors 2-3 times in a year period between wells as opposed to once or twice for a traditional sensor.
- **FAQ**
  - Are MEM Sensors less accurate than their previous counterparts?
    - No, they are not MEMS sensors have come a long way.

FEATURES – SURVEY COMPRESSION

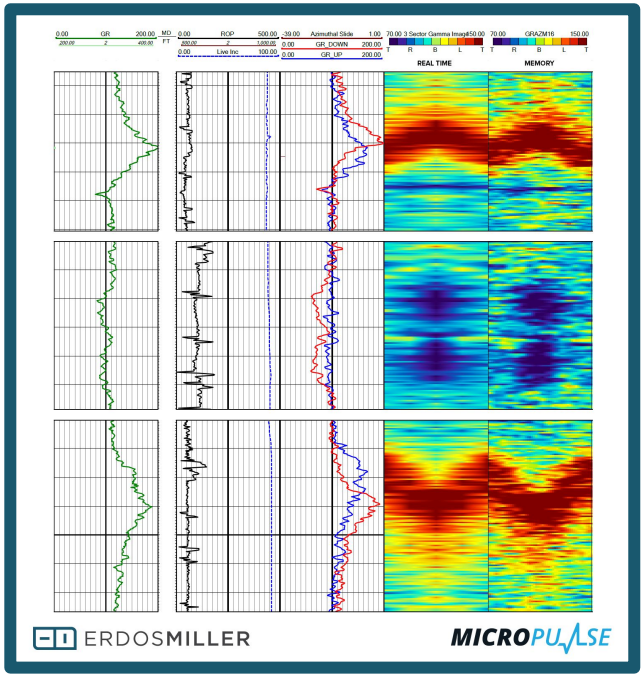
- **What are the benefits?**
  - Survey compression increases the chance of receiving a survey without a recycle while simultaneously receiving logging data faster. Survey is more likely to be received while receiving gamma faster.
- **FAQ**
  - Why is your survey more likely to be received?
    - A survey with survey compression is made up of 33% less bits. This means 33% less chance for error. Less recycling more logging data.



FEATURES – Azimuthal Gamma

- **What are the benefits?**
  - Azimuthal Gamma measurement allows you to keep the well more accurately in the production zone while drilling. (i.e. Produce more gas & oil)

- **FAQ**
  - How many sectors are available in real-time?
    - 4, 8, or 16 sectors compressed.
  - What is the most common real-time?
    - 8 sectors compressed.
  - How many sectors are there in memory?
    - 16 sectors



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THANK YOU

QUESTIONS?