DISCLAIMER 2019

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Since 1980, Gyrodata has been one of the world's leading service providers to the global energy industry with unparalleled expertise in drilling, surveying, wellbore placement and wellbore evaluation technologies.
Gyrodata’s Guide Center utilizes advanced technology and proven drilling practices to deliver quality, cost efficient, and accurately placed wellbores to our clients.

- 24/7 Real Time Monitoring
- Well Planning & Well Engineering
- Drilling Optimization
- MWD Technical Support
- GWD Technical Support
- Data Management Center
CHALLENGE

“Those who fail to learn from history are condemned to repeat it.” -Winston Churchill

Data Sources
- Customer
- Field Personnel
- EDR Systems

Collection of the data
- Easy access to the data
- Classification of the data

Interpretation of the data
- Analyze results
- Answer the uncertainties
SOLUTION

- Cloud Accessibility
  - Anywhere & Anytime
  - Secure Connection
  - Maintenance-Free Infrastructure

- Automated Interaction
  - Constant Communication
  - Learning from Historical Data

- Data Management
  - Faster & Better Decisions
  - Optimization of Drilling Services
  - Focusing on the Future
SELECTING PACESETTER WELLS

- Historical Database
  - Basin
  - County
  - Casing Profile
  - Area
  - Well Plan
- Identify Well Objectives
  - Overall ROP
  - Maximum Lateral Length
  - 1-Run Curve & Lateral or not
- Build a Pacesetter Roadmap
RESULTS

- Exceeding Expectations
  Meeting our Partners’ Goals
  Improved Productivity
  Increased Efficiency

- Performance:
  Footage Drilled per Day Increased by 15.7% year over year
  Increased hourly ROP by 35% year over year
  Reduced average drilling days per well by 3.73 days year over year
PROVEN BENEFITS

• Optimized the BHA including RSS, MWD and motor selection for an extended reach well in the Permian Basin
• Successfully drilled a 9,015 ft lateral in One Run in 43.84 Drilling Hours
• Average ROP of 205.8 ft/hr
• Operator saved an estimated 9 days of rig time and ~$500,000 in drilling cost
PROVEN BENEFITS

- Optimized the BHA including MWD and motor selection for an 8-well campaign in the Permian Basin
- All 8 wells were successfully drilled in one run
- Set a client record for fastest conventional lateral drilled in the Permian Basin
IN SUMMARY

The added value of the Cloud has helped us become more Efficient and Productive resulting in:

- **Footage Drilled per Day Increased by 15.7% year over year**
  - Assuming a 20,000' MD well, daily rig cost of ~$70K, & ROP ~100’/hr, a 15.7% increase in daily footage drilled saves ~$14K a day

- **Increased hourly ROP by 35% year over year**
  - Assuming a 20,000' MD well, daily rig cost of ~$70K, & ROP ~100’/hr, a 35% increase in hourly ROP saves ~$203K / well

- **Reduced average drilling days per well by 3.73 days year over year**
  - Assuming a 20,000' MD well, daily rig cost of ~$70K, & ROP ~100’/hr, reducing drilling days by ~4 days saves ~$280K
Your feedback is very important to us. Please open the LIFE2019 app to answer a few short questions on this presentation.