

Mid-Continent Coalbed Methane Symposium

Tulsa, OK

November 7-9, 2004

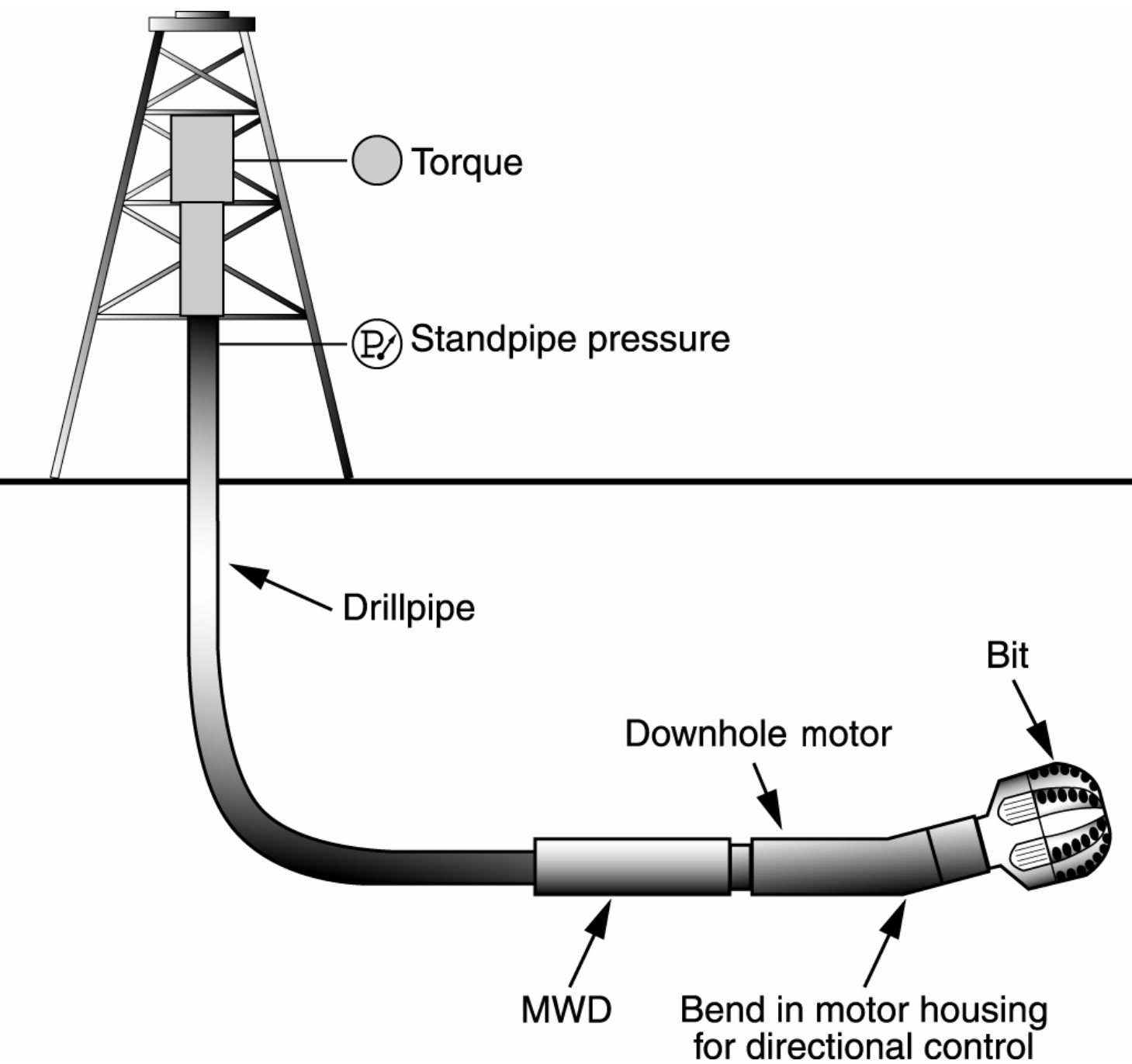
**Presentation
by
Eric Maidla**

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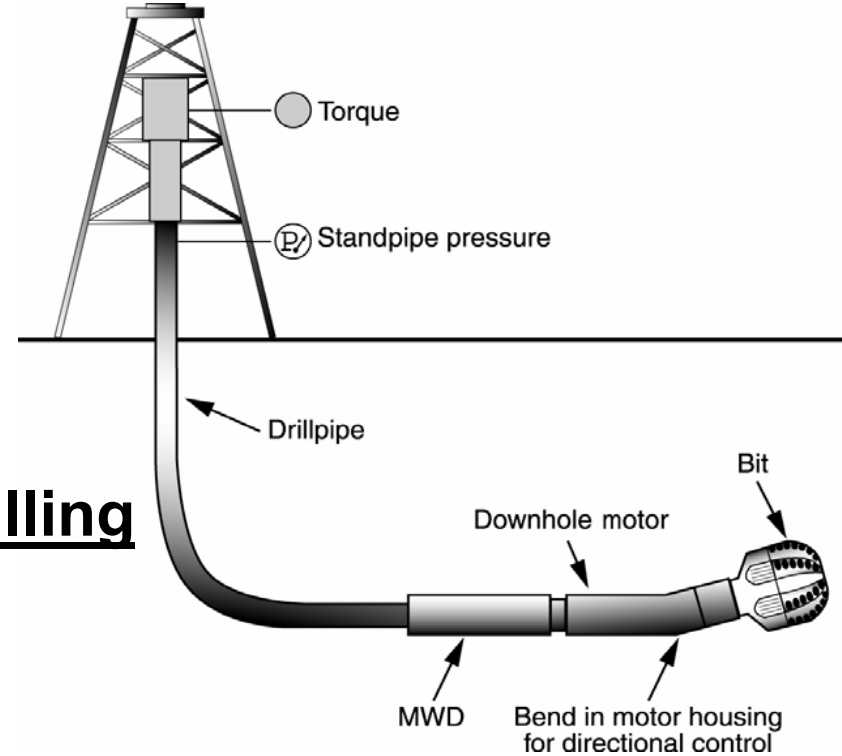
SLIDER™

* Service Mark of Noble Corporation, Patents Pending



SLIDER™ Technology

While Sliding for Directional Drilling



Top Drive without Slider: Stopped or Sometimes Rocks Pipe Manually

Top Drive with Slider: Directional Drilling Machine

- Automatic “Rocking” to enhance ROP
- Provides accurate Tool Face Orientation While Drilling
- May Extend the length of the Well (see conditions)
- Avoids Downhole Motor Stalling
- Saves time and consequently \$\$\$

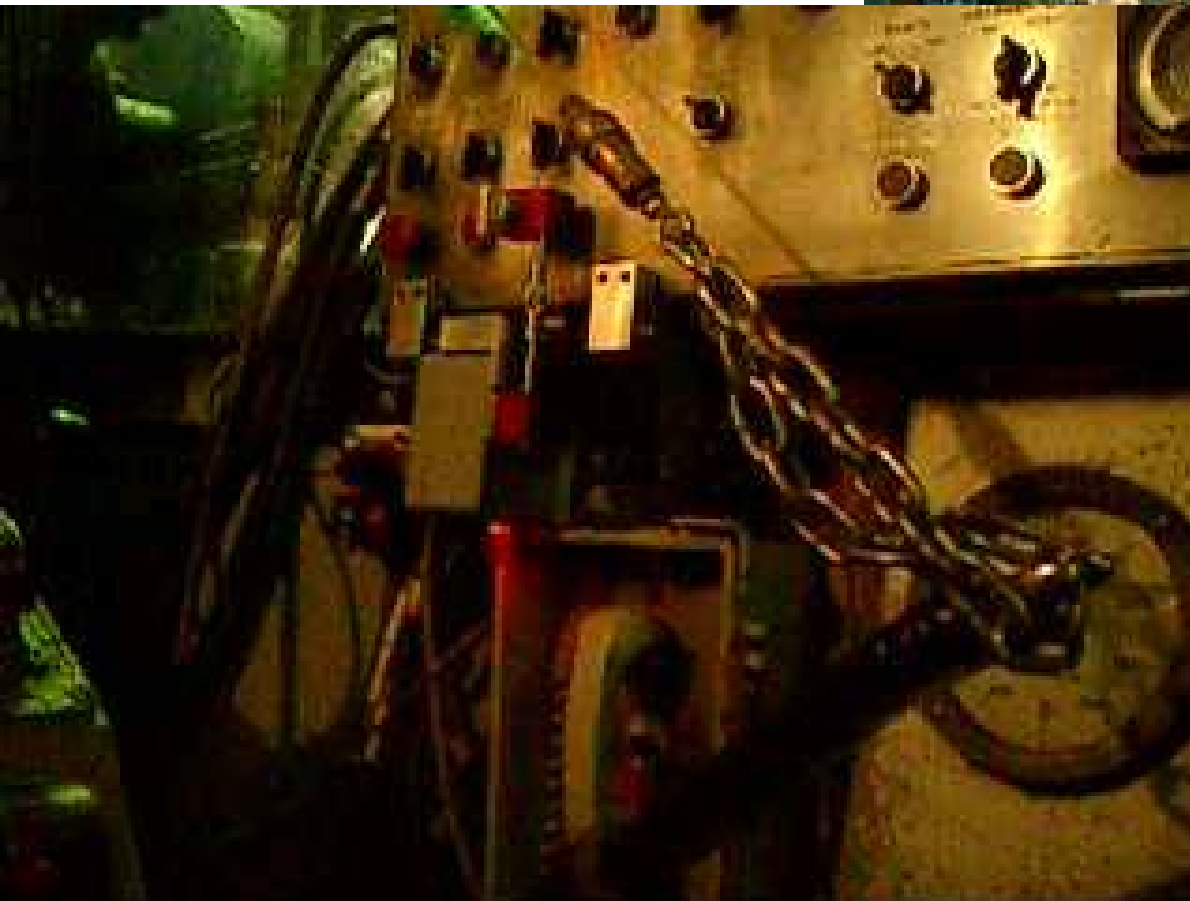
How SLIDER™ Works



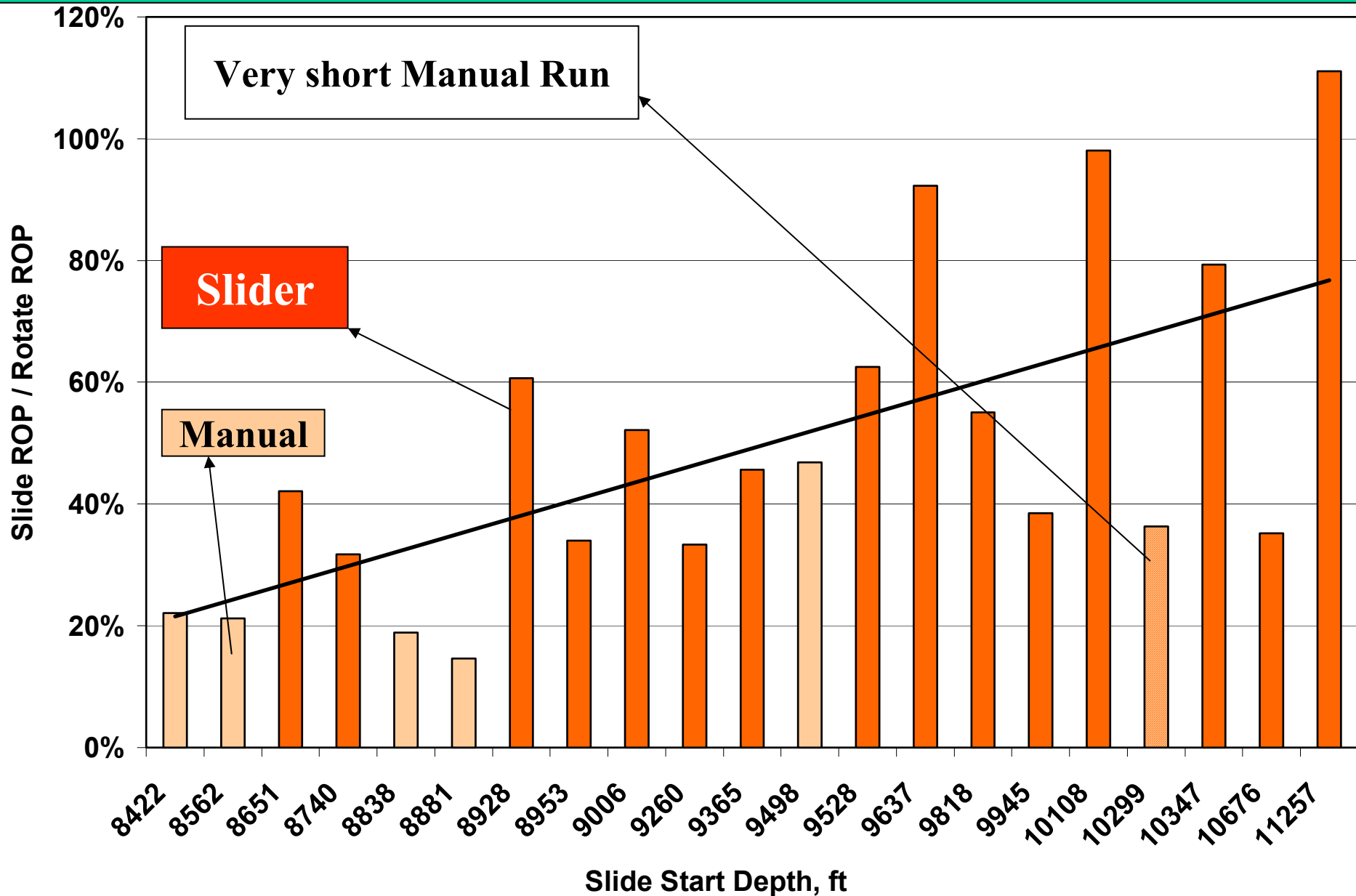
Robotics Solution



Slider Assisted Drilling

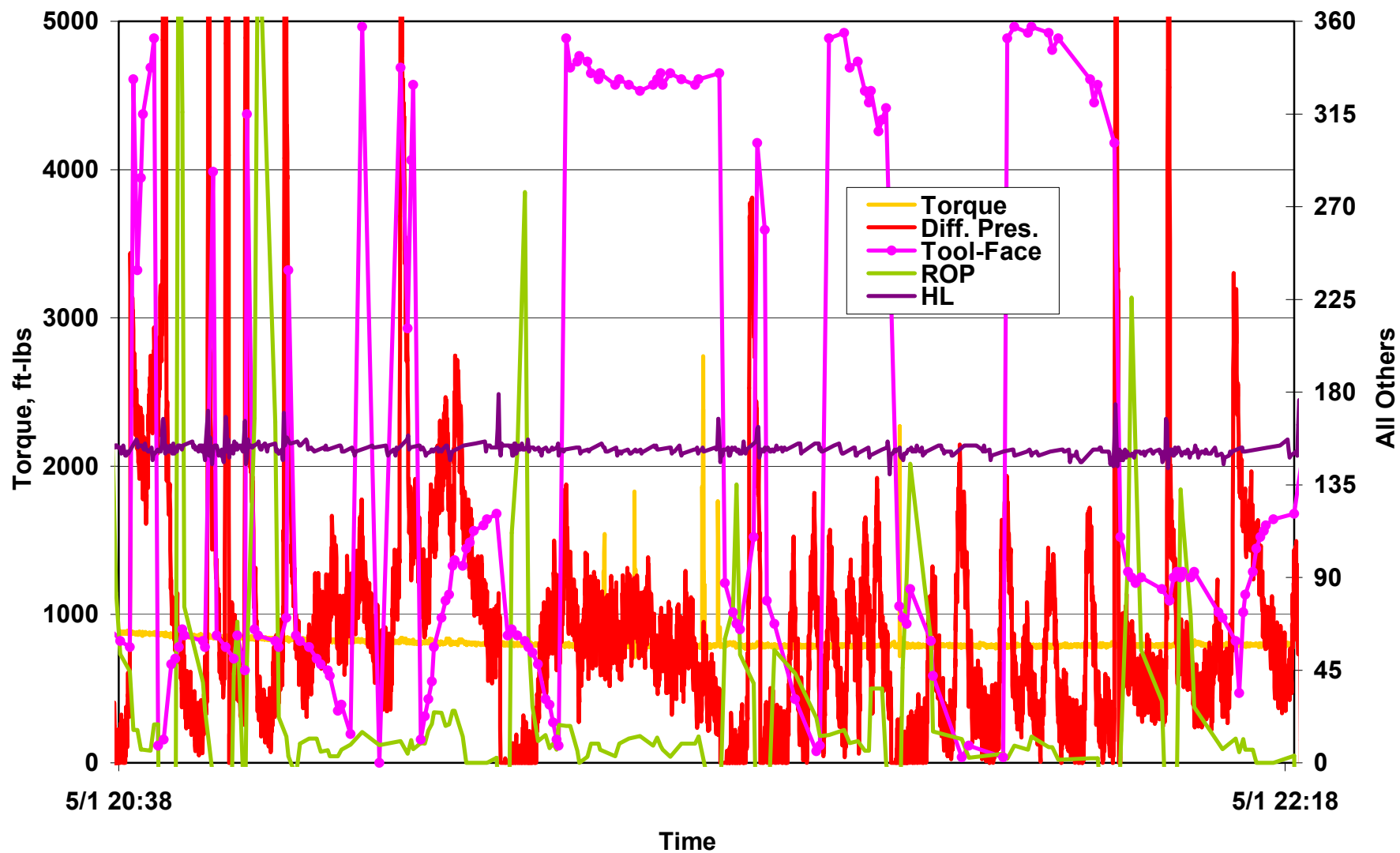


Slider Improvement as the Directional Driller Gets to use it More



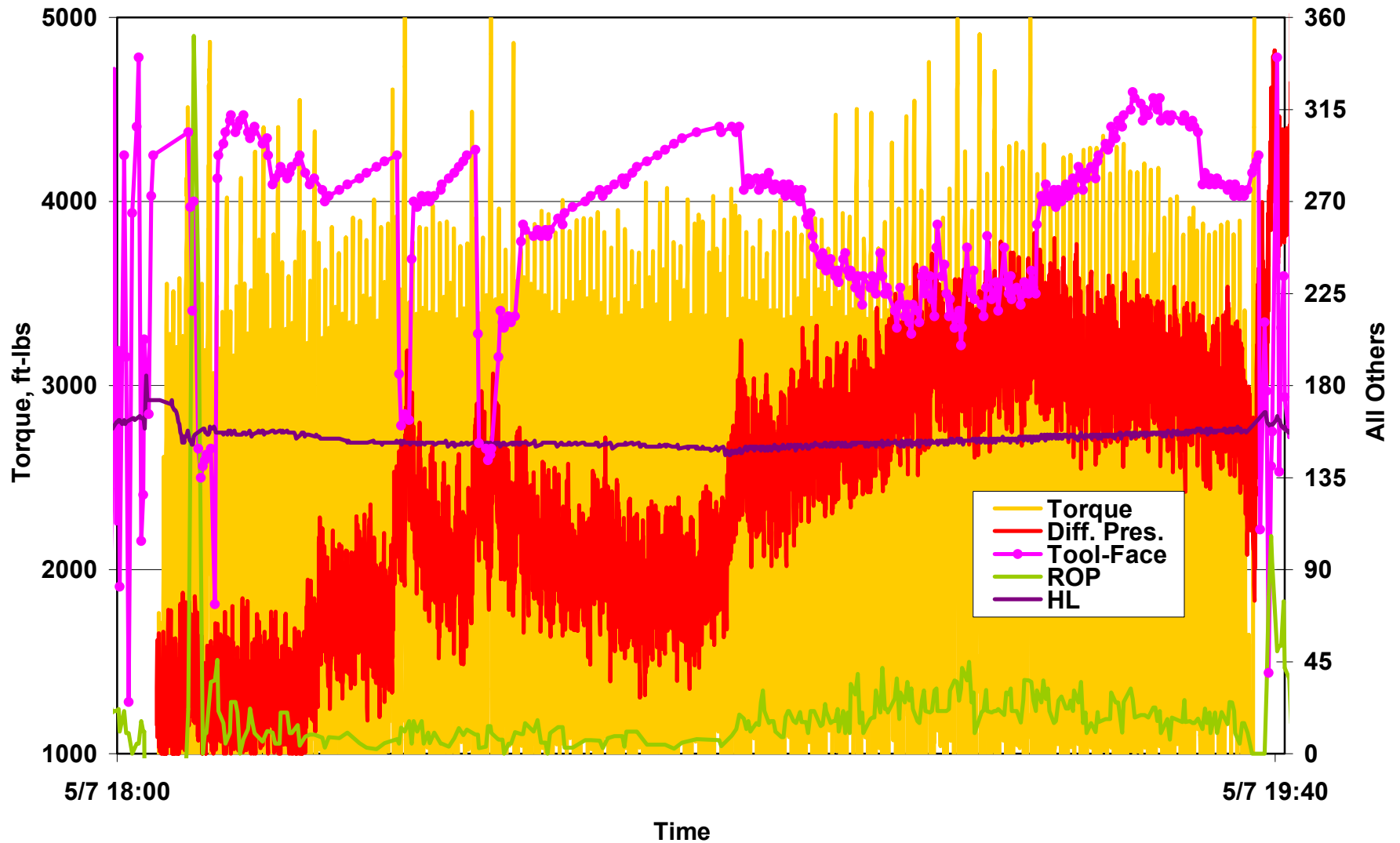
Manual Slide, 8864'-8874'

Target TF= 0-10, 7 Stalls

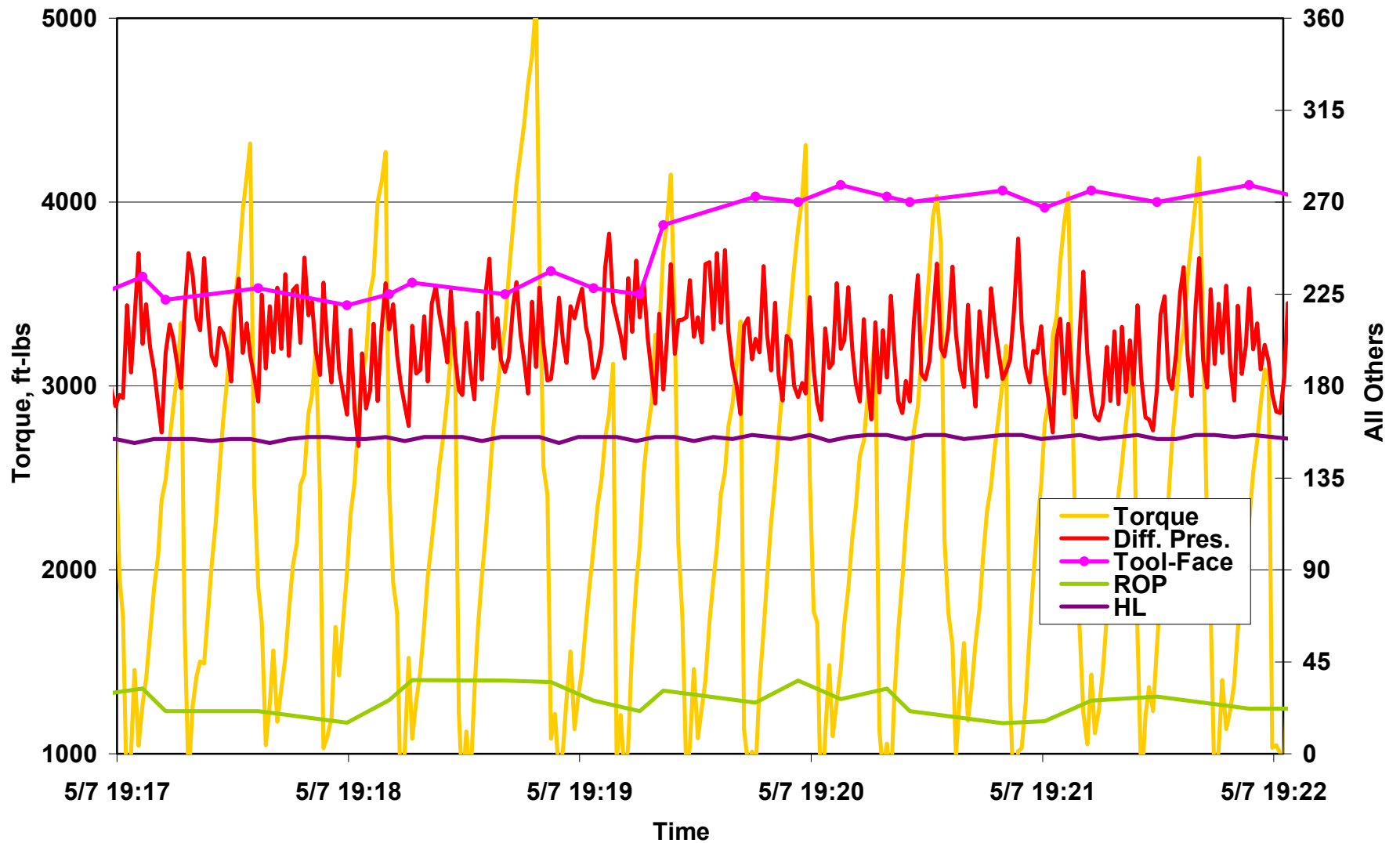


Slider Assisted, 10106'-10129'

Target TF= 250-270, No Stalls

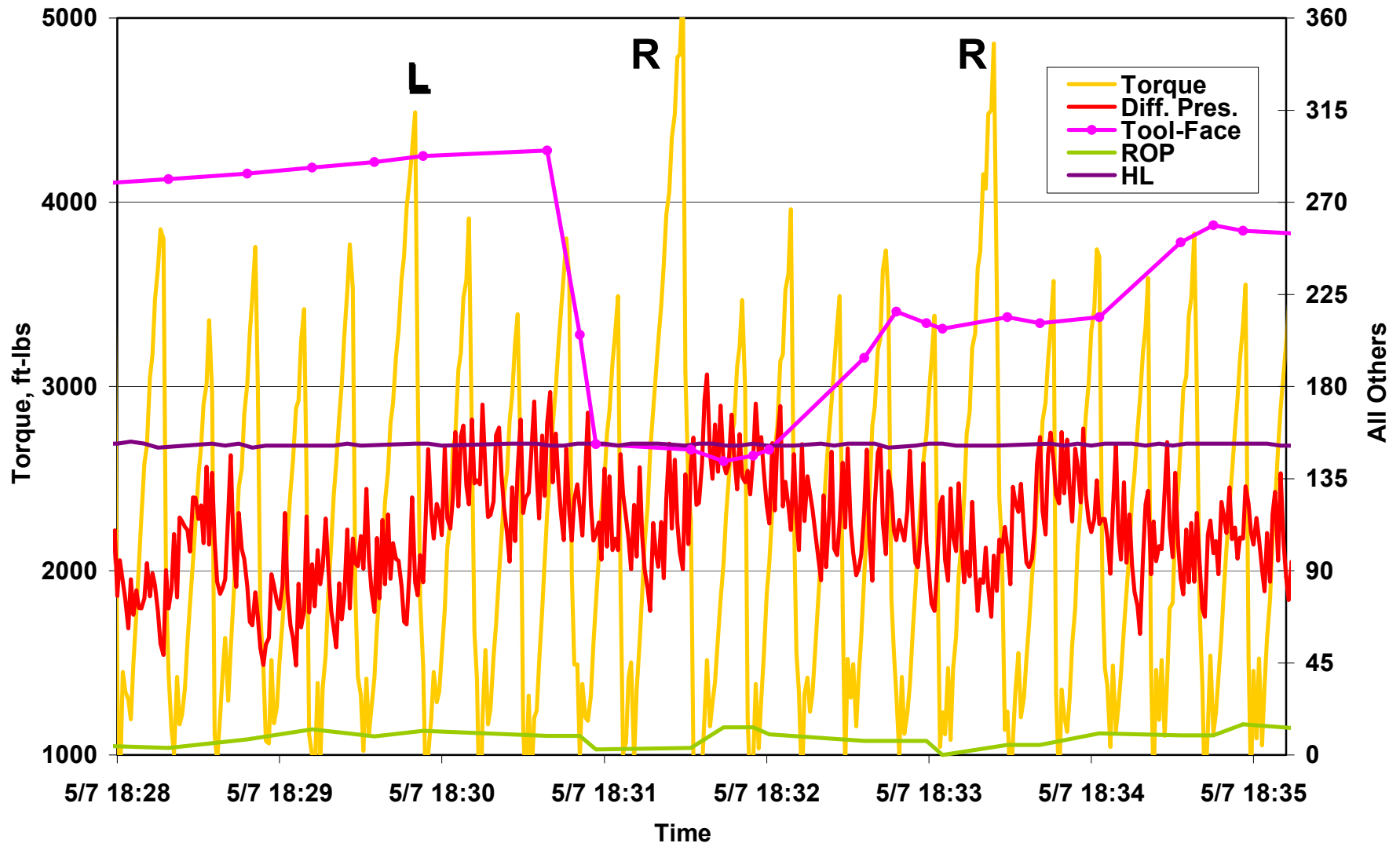


Tool-Face Correction w/ Slider



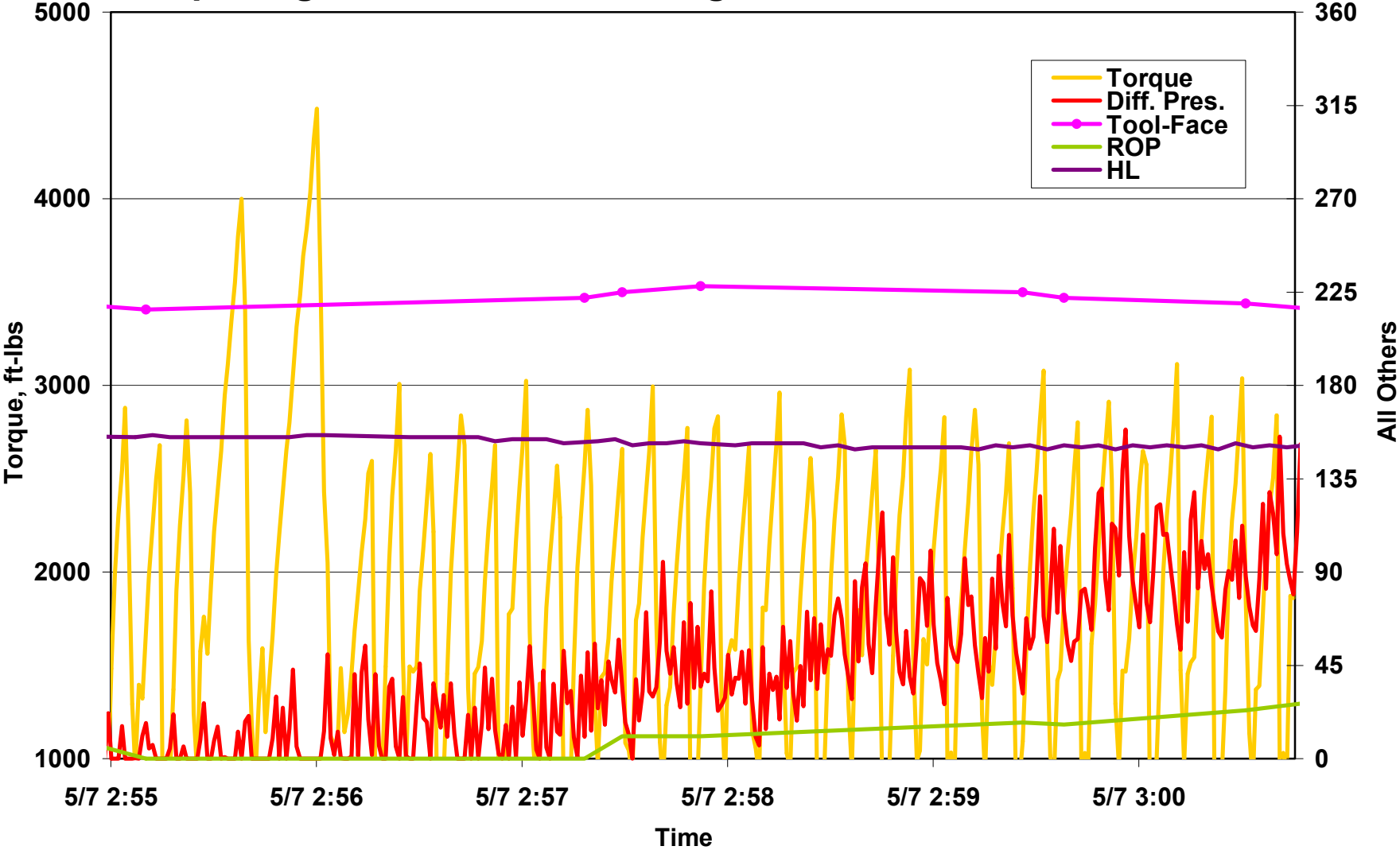
Tool-Face Correction w/ Slider

Left Bump Correction larger than desired, TF brought back to target by two right bumps

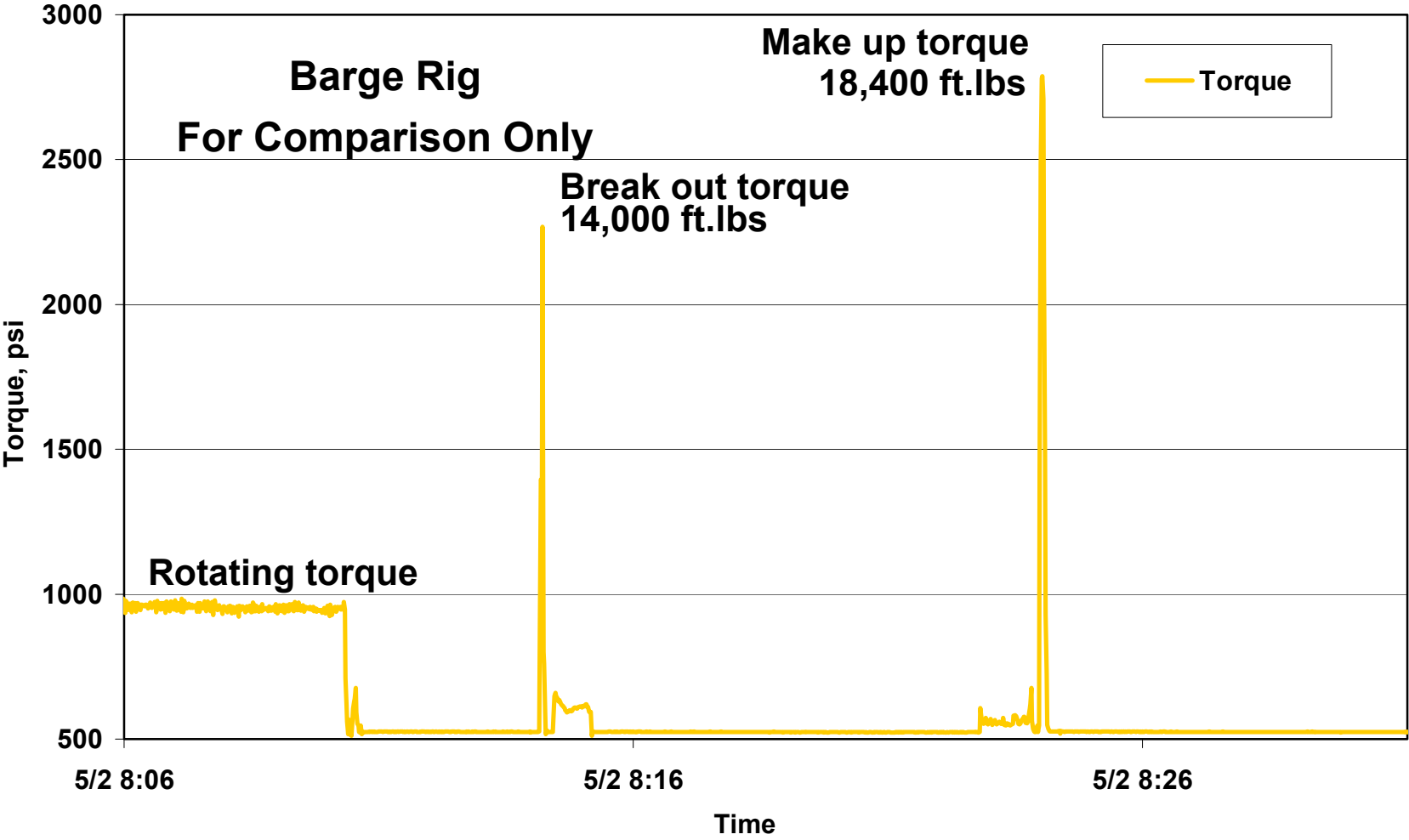


Coming Unstuck w/ Slider

Differentially stuck while sliding thru Sands, use left / right bumps to get unstuck w/o loosing tool-face



Field example of some torque values





Conclusions

- **New Directional Drilling process was presented.**
- **Fast on bottom orientation\$ Savings**
- **Faster Overall Sliding.....\$ Savings**
- **Maintains efficiency throughout the well path.....\$ Savings**
- **Less stalls....Higher Motor Life.....\$ Savings**
- **No downhole tools....less risk.....\$Savings**
- **Simple....Easy to Learn..fast adoption....\$\$\$\$**

SLIDER LLC

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