Slider sRS
“Surface Rotary Steerable”
Looking for Further Trials

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VP of Operations

SLIDER is an Operating Unit of Pathfinder Energy Services
2002 - Noble Project Start
2003 - First Field Test
2004 - Slider, LLC Spun off
2008 - Pathfinder Acquisition
2008 Smith Acquisition
Conv. Motor Steerable Drilling

Orienting to slide takes minutes

Typical Slide is 6-15 ft long
Surface Rotary Steerable Drilling

Orientation to slide is **automated**

Typical Slide is 1-2 inches long
sRS drilling w/ Tool-Face ~ 270 deg
sRS Advantages

- Dominant drilling is ROTATE
- No big dog-legs, smooth wellbore
- No additional downhole components, works with conventional downhole motors & MWD
sRS System

- Built on the Slider Tool Technology
- More Powerful Processor
- New Software
Well Information

Anadarko
Foerster-Donovan #1 Re
Fayette Co., TX

6 1/8” PDC
4 3/4” Motor
2 7/8” DP to Surface
Water w/ Mud Cap

8900’
11500’
Torque, ft-lbs

Tool-Face, deg & Diff. Press., psi
Results

✓ Drilled 8’ w/ sRS from 11503’ to 11509’
✓ ROP was 8’/hr
✓ Total of 33 Micro Slides was performed.
✓ sRS had over 75% accuracy in holding Tool-Face in the target direction.
✓ Each slide was about 1 inch long.
✓ Survey check showed 0.2 deg to left in azimuth and 0.1 deg up in inclination.
sRS Trial Ideal Candidate

- High Angle Directional or Horizontal
- Big OD Drill Pipe
- Fast MWD updates, TF while Rotating
- Hydraulic Rotating Equipment
- Slow Drilling, ROP < 40 ft/hr

Presently, in Beta testing. Completed two field tests with 2 7/8” DP and Steering Tool.