Agitator Placement Software

The latest Agitator™ placement software is the result of continuous research and development into the Agitator effect on friction breaking action. As applications become ever more complex, the demand for quantitative and qualitative Agitator placement recommendations continues to rise.

This software provides enhanced outputs over previous Agitator placement programs and capitalizes on a rigorous Torque and Drag module. The Agitator placement algorithm calculates the amplitude of axial displacement of a drill string that is subject to excitation from the Agitator System(s). Next, the amplitude and its distribution along the entire length of the drill string translates into friction reduction. Friction breaking action is a function of:

- Trajectory
- Drill string mechanical properties
- Side Forces
- Mud weight
- Agitator System setup and placement

What is New

More Agitators and Shock Tools: The software supports two Agitator Systems and remote shock tools.

More Applications: The software supports a wider array of applications including slide drilling with a motor BHA or Agitator enhanced RSS BHAs.

More Accuracy: The software has been validated with high frequency lab and field data.
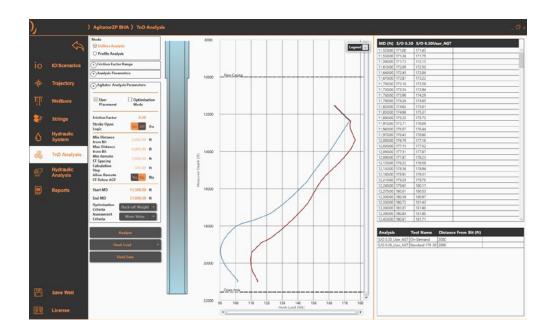
What the Program Does

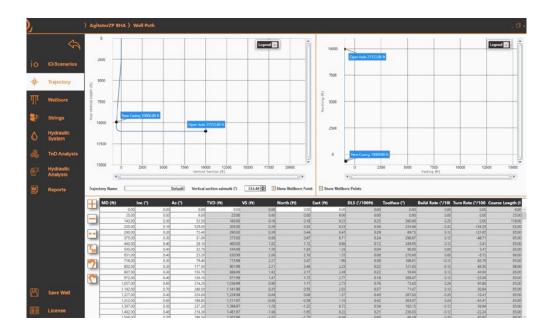The below table shows the required inputs (minimum requirements) and simulated outputs.

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Program Inputs	Program Outputs
Well Survey (MD, inclination, azimuth)	Torque and Drag with and without Agitator
Depth In/Out	Hook load plot
BHA Sheet (OD, ID, length)	Torque plot
Drill Pipe Spec (OD, ID, tool joint OD, ID, connection)	
Last Casing Point, OD, ID	
Planned Mud Weight and Flow Rate	