ATLAS

ADVANCED TRAJECTORY & LIFT ANALYSIS SYSTEM

TECHNICAL DATA SHEET

ATLAS converts high-density gyro survey data into actionable artificial lift and well access intelligence. The service is built to reveal localized tortuosity, effective free ID restrictions, and bending loads that standard survey spacing can miss.

ATLAS supports ESP placement, rod guide configuration, ALS design, and workover planning by modeling how the selected assembly OD and length interact with the actual wellbore trajectory.

Close-interval survey acquisition down to 1 ft spacing enables high-resolution dogleg/tortuosity evaluation, Free ID calculations, and 3D visualization for better setting-depth decisions.

For more information on improving your production efficiency [while staying on target] contact your Scientific Drilling sales representative or visit: **http://scientificdrilling.com/wellbore-surveying**

ATLAS SERVICE SPECIFICATIONS	
PRIMARY OUTPUTS	Free ID log, 3D visualization, bending load/contact-force model, high-density survey data output
DATA DENSITY	Down to 1-ft intervals; adjustable output for third-party software import
SURVEY SPEED	100-200 ft/min; job profile and data-density requirements dependent
CONVEYANCE	Mono-conductor wireline, slickline, and memory gyro configurations
PRESSURE RATING	20,000 psi standard; 30,000 psi available on request

DATA ACQUISITION TECHNICAL SPECIFICATIONS				
DIAMETER	1.75 in (4.45 cm)	1.85 in (4.70 cm)	2.13 in (5.40 cm)	3.00 in (7.62 cm)
LENGTH	18 ft (5.5 m)	19 ft (5.8 m)	19 ft (5.8 m)	28 ft (8.5 m)
WEIGHT	110 lbs (50 kg)	120 lbs (54 kg)	140 lbs (63 kg)	500 lbs (227 kg)
TEMPERATURE RATING	300° F (149° C)	400° F (204° C)	400° F (204° C)	400° F (204° C)

MEASUREMENT & OPERATING SPECIFICATIONS	
BATTERY	Alkaline = 12 hrs; Lithium = 30 hrs
MEASUREMENT RANGE	0-180° inclination; 0-360°azimuth
ACCURACY	Inclination +/- 0.1° Azimuth +/- 0.1° (>3° inc.) Tool Face +/- 0.1° (>3° inc.)
ROTATION / VIBRATION	50 RPM rotational limit; 8 grms vibration rating

*Specifications are subject to change without notice

APPLICATIONS

- Artificial lift system design and placement optimization
- ESP setting-depth selection and rod guide configuration
- High-failure-rate artificial lift wells and workover planning
- Well access / restriction analysis for plug, packer, perforating-gun, and other BHA conveyance
- Importable high-density data for rod guide placement and modeling workflows

DELIVERABLES

- 3D wellbore tortuosity and effective Free ID visualization
- Bending moment, displacement, and contact-force modeling
- High-density directional data output for third-party import
- Assembly OD/length sensitivity for ESP, rod string, plugs, packers, and BHAs
- Optional caliper integration to model against measured internal diameter