

Product Information

Enteq MWD Systems



PayzoneTracker*

New-Gen At-bit Azimuthal Gamma Geosteering Tool

The PayzoneTracker* is the latest generation of at-bit tool system designed and developed for placement of long laterals in shales or thinly bedded payzones. Unlike MWD and/or LWD tools that usually are tens of feet behind the bit, the PayzoneTracker* brings sensors as close as 12 to 16in. from the bit, allowing well trajectory adjustments to be made hours earlier. The new system can work in various types of mud, including OBM. With an at-bit sub length of 35in (89cm), the PayzoneTracker* best preserves the bit steerability as compared to any other at-bit tool on the markets. The cross-motor EM short-hop receiver can be spaced apart from the at-bit sub by 60ft (18m) or more.

The PayzoneTracker* offers extended operation times of up to 200hrs in typical runs. Measurements include continuous inclination, in both sliding and rotating modes, and 16-sector gamma readings. The EM short-hop receiver has been paired with the popular MWD systems on the markets. In real time, four quadrants of gamma measurements and several other parameters are available for transmission to surface via mud pulse or EMWD.

The PayzoneTracker* tool is available in both 4.75" and 6.75" sizes. The nominal temperature and pressure ratings are 150°C and 20,000psi. Higher temperature and pressure ratings of 175°C and 25,000psi are also available.

* Trademark of Well Resolutions Technology, Inc.

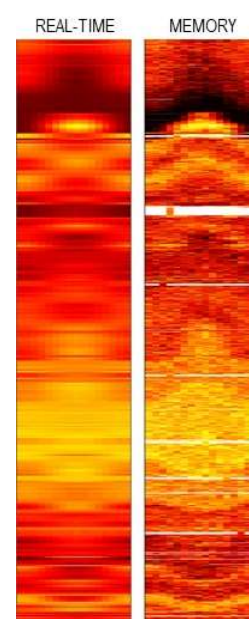


MAIN FEATURES

- Continuous INC while sliding or rotating
- 4-quadrant Gammas for real-time transmission
- 16-sector Gammas for memory
- Bit RPM measurement
- Measure point 12-16in to bit
- At-bit sub length 35in.
- Rated at 150°C/20000psi (175°C/25000psi option)

APPLICATIONS

- Long lateral drilling in shales
- Thinly bedded payzones



Contact

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Tool Size	4.75 in	6.75 in
At-bit Sub		
Length	35 in	35 in
Nominal OD	5.0 in	6.75 in
Max OD	5.25 in	7.0 in
Max ID	1.313 in	2.375 in
Connection PIN Up / BOX Down	3-1/2 REG (IF option) / 3-1/2 REG	4-1/2 REG (IF option) / 4-1/2 REG
Yield Strength	15,140 lbf-ft	29,900 lbf-ft
Make-up Torque	12,000 lbf-ft	24,000 lbf-ft
Max DLS Rotating	15°/100ft	8°/100ft
Max DLS Sliding	30°/100ft	16°/100ft
Max Downhole Drilling Torque	12,000 lbf-ft	24,000 lbf-ft
Max RPM (Downhole)	250 RPM	250 RPM
Max Flow Rate	340 gpm	750 gpm
Max Operating Pressure	20,000 psi	20,000 psi
Max Operating Temperature	150°C (175°C option)	150°C (175°C option)
Max Operating WOB	25,000 lbs	50,000 lbs
Max Sand Content	1%	1%
Max Number of Recuts	4	4
Receiver Sub		
Collar Gap Length	35 in	35 in
Collar Gap Max OD	4.75 in	6.75 in
Collar Gap Connection	3-1/2 IF	4-1/2 IF
Collar Gap Yield Strength	18,000 lbf-ft	34,000 lbf-ft
Collar Gap Make Up Torque	12,000 lbf-ft	24,000 lbf-ft
Receiver Electronics Housing OD	1.875 in	1.875 in
Measurement		
Inclination @ Bit		
Range	0 - 180 degrees	
Repeatability	±0.2 degrees while sliding or ±0.5 degrees while rotating	
Measure Point to Bit	12 in	
Azimuthal Gamma @ Bit		
Range	0 – 1,023 AAPi	
Accuracy	2%	
Number of Sectors	16	
Measure Point to Bit	16 in	
Battery Life		
Nominal Operation Time (Azimuthal Gamma only)	Up to 200 Hours	
Recommended Operating Parameters		
RPM	Max 200 for minimum fatigue	
Formation Resistivity	2 -200 ohmm for optimal short-hopping	
Mud Resistivity	1 ohmm or higher	
Vibration	Max 20 Grms, 50-1,000Hz	
Shock	Max 500 G, 0.5ms (z-axis), 1,000 G, 0.5ms (x- or y-axis)	
Running Below a Mud Motor ^{1,2}		
Max Bend Setting	1.50°	1.50°
Max DLS Rotating	15°/100ft	8°/100ft
Max Surface RPM	60	60
Max Mud Motor RPM	180	180

¹ Do not run any motor stabilization with Inc @ Bit sub.

² WOB capacity of most mud motors is higher than Inc @ Bit sub.

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Contact

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Useful links

Technical Support: techsupport@enteq.com

Suggestions and Questions: suggestions@enteq.com

Software Downloads: www.enteq.com/downloads

Repair Services: www.enteq.com/mwd-support-services