

CNPS High Temperature MWD

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CNPS high-temperature MWD is a independently developed wireless MWD tool that can provide directional and gamma measurement. characteristics fishing replaceability, simple and convenient operation, low maintenance cost, long working cycle and long maintenance interval for single use, and is a costreducing and efficiency-increasing MWD tool. The CNPS high-temperature MWD adopts the bottom-key mud pulse signal generator, which has strong pressure signal, stable data transmission and strong anti-interference ability. The signal demodulation adopts adaptive equalization and neural network intelligent algorithm for signal filtering and processing, with friendly operation interface. fully meeting customer needs.

The power source of the CNPS high-temperature MWD pulser is the high-temperature solenoid, which directly drives the pilot valve to act. The internal and external pressure is balanced by the piston. The main moving parts are made of ceramic materials, with stable performance and less mechanical wear. Under its normal operating conditions, it can achieve maintenance-free.

CNPS high-temperature MWD directional probe tube is designed with a special aviation quartz gravity accelerometer and calibrated by a calibration algorithm with independent intellectual property rights. Through orthogonal calibration and temperature compensation, the directional probe tube is within the full temperature range and the deviation accuracy is $\pm\,0.1\,^\circ.$

CNPS high-temperature MWD can intelligently identify the downhole working mode. During compound drilling, the instrument may enter the sleep mode occasionally and activate at regular intervals to save electricity.

Dual battery mode is optional for CNPS high temperature MWD. The power management module can intelligently control dual battery discharge while ensuring the safety of battery discharge, effectively extending downhole working time.

CNPS high temperature MWD tool has an OD of 48mm and can be used with 3 1/2"-9 1/2". non-magnetic drill collars for a mud flow rate of 35-1100gal/min and can be used in a wide range of hole sizes. In case of complex downhole conditions, fishing tools can be used for fishing or replacement to reduce tool damage and trip cost losses, improve drilling efficiency and reduce operational risks.

Application

 A low-cost, high-efficiency, salvageable, high-temperature MWD tool.

Benefit

- Retrievable and replaceable, reducing the risk of loss to the wellbore and improving operation efficiency.
- Orthogonal calibration and temperature compensation design, high measurement accuracy.

Feature

- ✓ High temperature 150°C/175°C
- Mud pulse signal generator, strong plugging ability, easy maintenance, high life.
- Advanced design of upper computer, strong signal demodulation ability
- can connect with APS pulser

Schematic diagram of pulser and directional probe





CNPS High Temperature MWD Technical Parameter

	titude measurement Well deflection					
	Measuring range	0 to 180°	0 to 180°			
	Measurement accuracy	±0.1° at 1 sigma	±0.2° at 1 sigma	打捞头		
	Resolution ratio	0.05°	0.1°			
_	Orientation			.		
	Measuring range	0 to 360°	30 to 330°			
	Measurement accuracy(>5°) ±1° at 1 sigma	±2° at 1 sigma	· · · · · · · · · · · · · · · · · · ·		
	Resolution ratio	0.1 °	0.5°	#		
7	Tool face		_			
	Update time	50s(AVG)				
	Measuring range	0 to 360°				铤
	Measurement accuracy	±2° at 1 sigma				无磁钻铤
	Resolution ratio	2°		定向茶管		K
!	Measuring range Measurement accuracy Statistical resolution Distance between sensor and lower end of	0 to 250API ±6% 0.5cps tools 2m		行明		
her p	parameters			對		
	Downhole operating tempera			★ 株正器		
	Maximum external pressure	25,000psi		1 +++		
	Working capacity range	35 to 1100 gal/m				
	Drill collar OD	3 1/2 to 9 1/2ir	1	1 sks		
	Maximum dogleg degree	30°/100ft		上 路 上路		
		bf/bbl medium bridge				例
		- based, water - based r	nud system			定向接头+循环套
	sand content	< 1%		9427 90		*
	Tool length	6.5m		下部组件	CHEST	掛以

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