



EIE

Near-Bit

EIE-NB-6.75-00

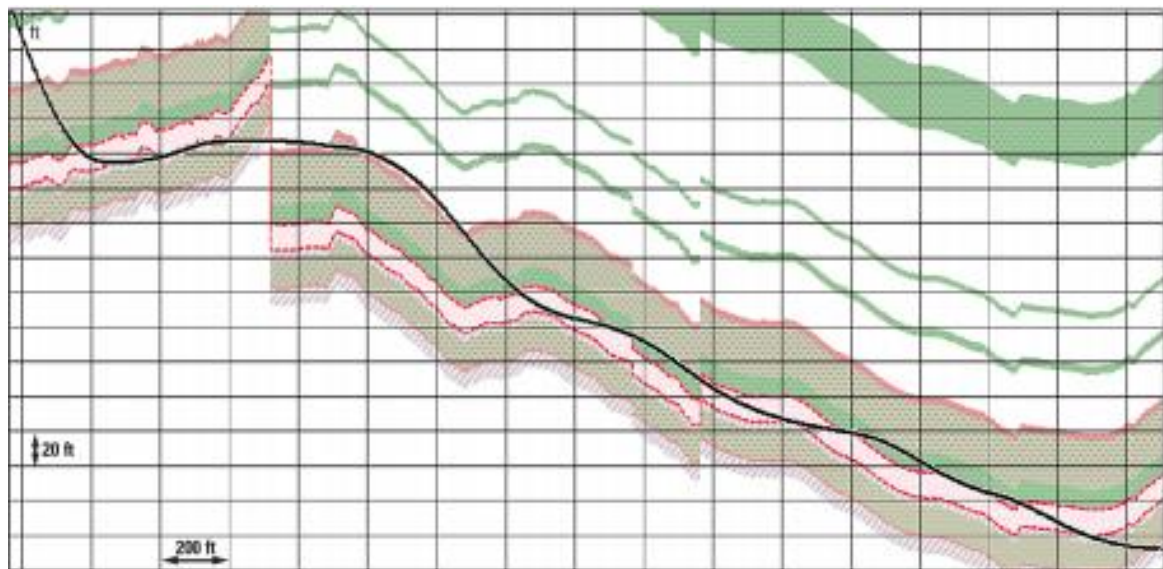
Near-Bit



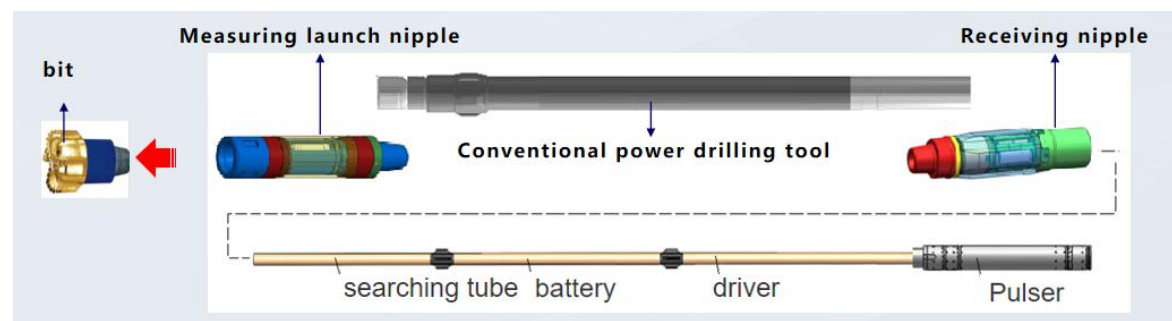
Near-Bit geosteering system is mainly used to solve the problems that the geological parameters and trajectory parameters of conventional geosteering instruments are far away from the bit and the measurement parameters are lagging behind, which leads to the easy exit of the drilled trajectory from the reservoir and the low drilling rate of the effective reservoir.

Near-Bit can be applied to:

- ✓ Strata with obvious contrast between upper and lower gamma values;
- ✓ Horizontal well, directional well and extended reach well;
- ✓ Unconventional oil and gas reservoir;
- ✓ Shale;
- ✓ Coal bed methane (CBM);
- ✓ Tight sandstone;
- ✓ Conventional oil and gas reservoirs;
- ✓ Layered shale and sandstone alternate strata;



System Composition :



Main features

1. Electromagnetic wave signals are transmitted in short time, which can be used in oil-based and water-based mud;
2. It can measure the azimuth gamma of the near bit and the inclination of the near bit (the parameters can be expanded);
3. The receiving sub CAN match the protocols such as 485 and CAN, which is convenient for users to hook.

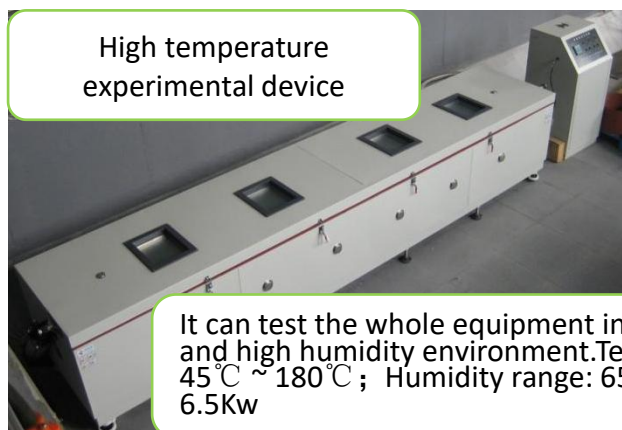


Near-bit measuring nipple



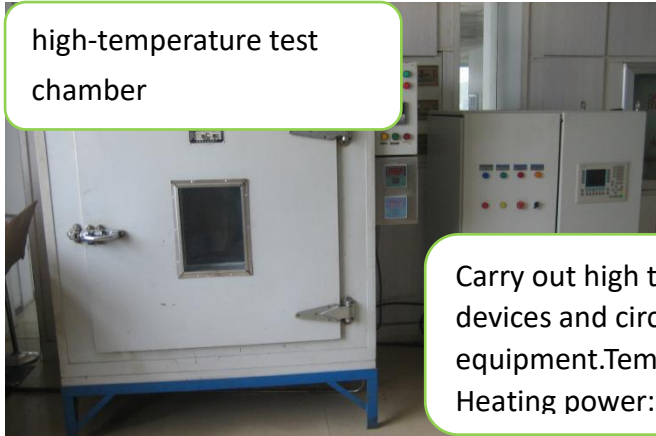
Near-bit receiving nipple

Ground Test:



It can test the whole equipment in high temperature and high humidity environment. Temperature range: 45°C ~ 180°C ; Humidity range: 65% ~ 95% RH; Power: 6.5Kw

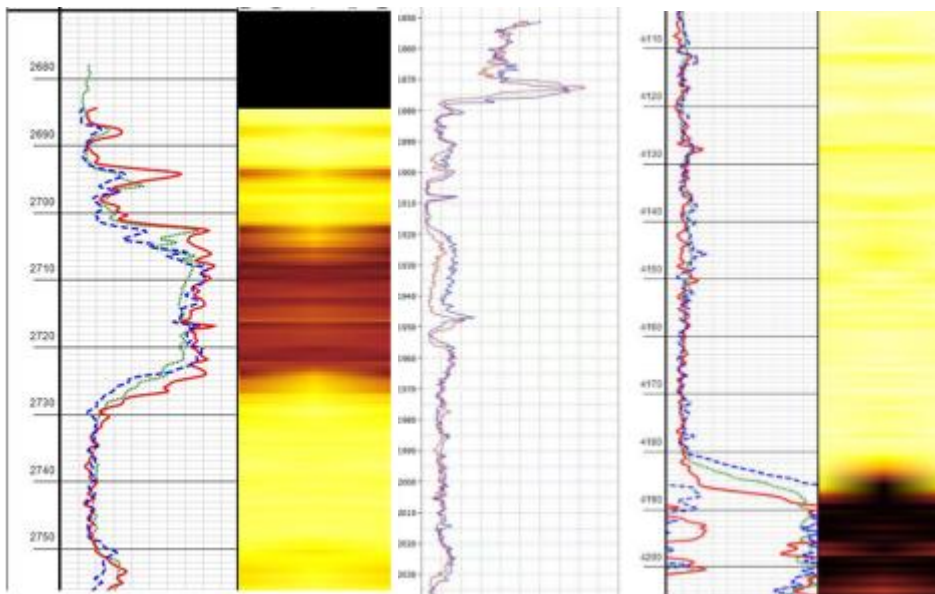
high-temperature test chamber



Carry out high temperature test on internal devices and circuit boards of the equipment. Temperature range: 0 ~ 300°C ; Heating power: 27Kw



Data processing imaging:



Technical Parameter:

Instrument outer diameter	172/190mm	Measuring short section length	1.07m
Gamma measurement range	0~500API	measurement accuracy	±2API@50API
Gamma sector number	4	Suitable borehole	215.9/241.3mm
Deviation measurement range	0~180°	Short transmission distance	>24m
Rotational speed measuring range	0~300rpm	precision: ±2rpm	
maximum working temperature	175℃	Mud type	oil base
peak working pressure	145MPa		water base

precision	measurement error
Near-bit deviation	measurement error≤±0.3°
Rotational dynamic orientation	measurement error≤±2.5°
vibrate	20Grms,50-1000Hz
lash	500G,0.5ms(z axis),1000G 0.5ms(x,y axis)