FOGWD



The North Seeking Fiber Optics Gyro While Drilling "Roar" system is designed using a aero-space Fiber Optics Technology. The Roar tool is built to withstand harsh drilling conditions and is operated in a similar manner as a conventional MWD system. The tool can work in combination other MWD and Gamma tools.

When the pumps are turned off, the tool will seek North and take a survey and store it in its memory. After the shot is taken and the pumps are turned back on, the tool will transmit via mud pulse telemetary; the stored survey data as well as all quality control flags to verify the quality of the shot.

> After survey is transmitted, the tool will continue sending information like INC, GTF, ERH.

> The tool stores every shot it takes, while download, for use later when retrieved at surface

NORTH SEEKING

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The SeVen Drilling Technology Reliable, Affordable Technologies



Dimensions

Diameter: Probe Length: OD of Drilling Tool: 48mm/1.89" ~1.5m/59.05" from 4.75" - 9.50"

Power, Storage and Communication

Maximum Pressure: Power Consumption: Standby: Storage Capacity: Comm. Interface:

140Mpa (20,300psi) Working: 140mA@21V 35mA@21V 64Mbit 85/ Magnetic coupling

Operating Environment

Regular Mud Drilling: Maximum Temperature: Shock and Vibration resistance: 10G RMS (30G peak, peak time 3%) Impact: Flow Rate: Pulse Signal: 200h **Downhole Working Hours:**

Oil base and Water base mud 150°C/302°F 1000G 0.5ms 10~75.7L/s (158~1200gpm) 0.5~2Mpa (73~290psi)

Operating Mode:

Pump Survey Mode / GMWD Mode / Memory Mode

Operating Range and Accuracy

Inclination: Azimuth: Gravity High Side: Gyro North Toolface: Time for Survey:

0~90° ±0.2° 0~360°±0.5° (10°≤ INC ≤70°) 0~360°±1° (10°≤ INC ≤90°) 0~360°±0.5° (0°≤ INC ≤70°) 45s < SHOT < 120s