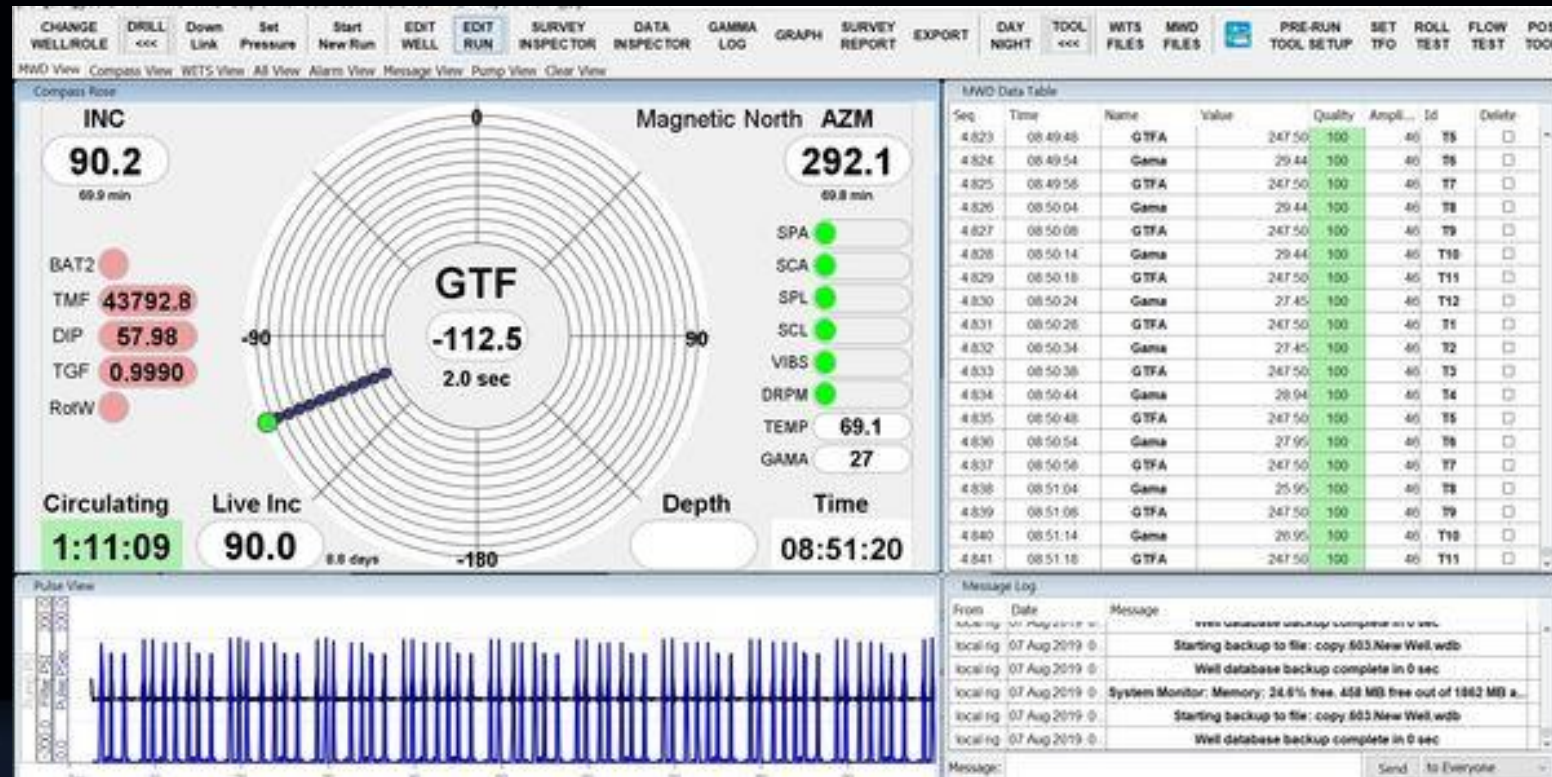


Antares MWD System

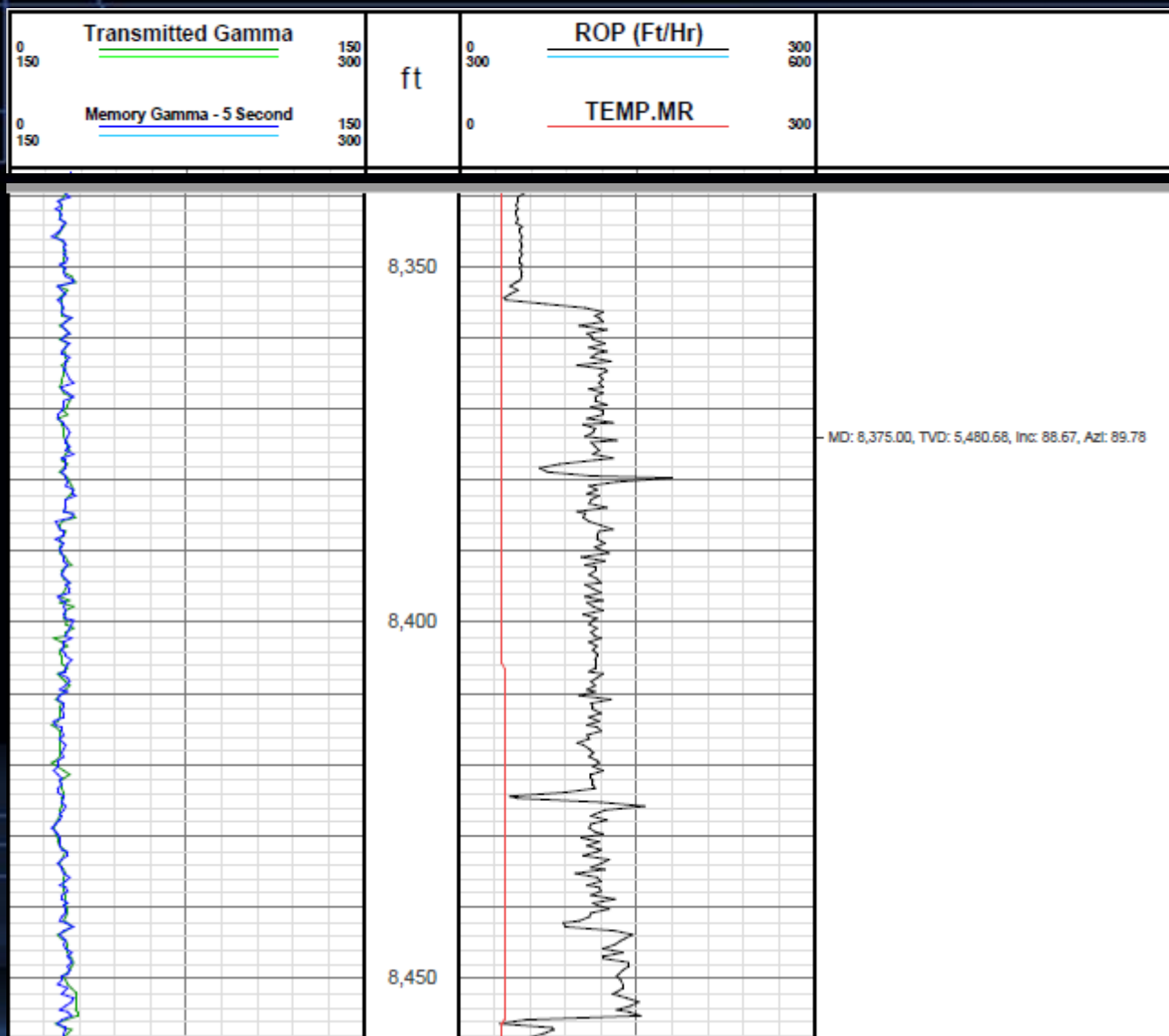


Houston Drilling Tools LLC
Spring Texas
www.hdtservices.com
jlopez@hdtservices.com

Antares MWD System

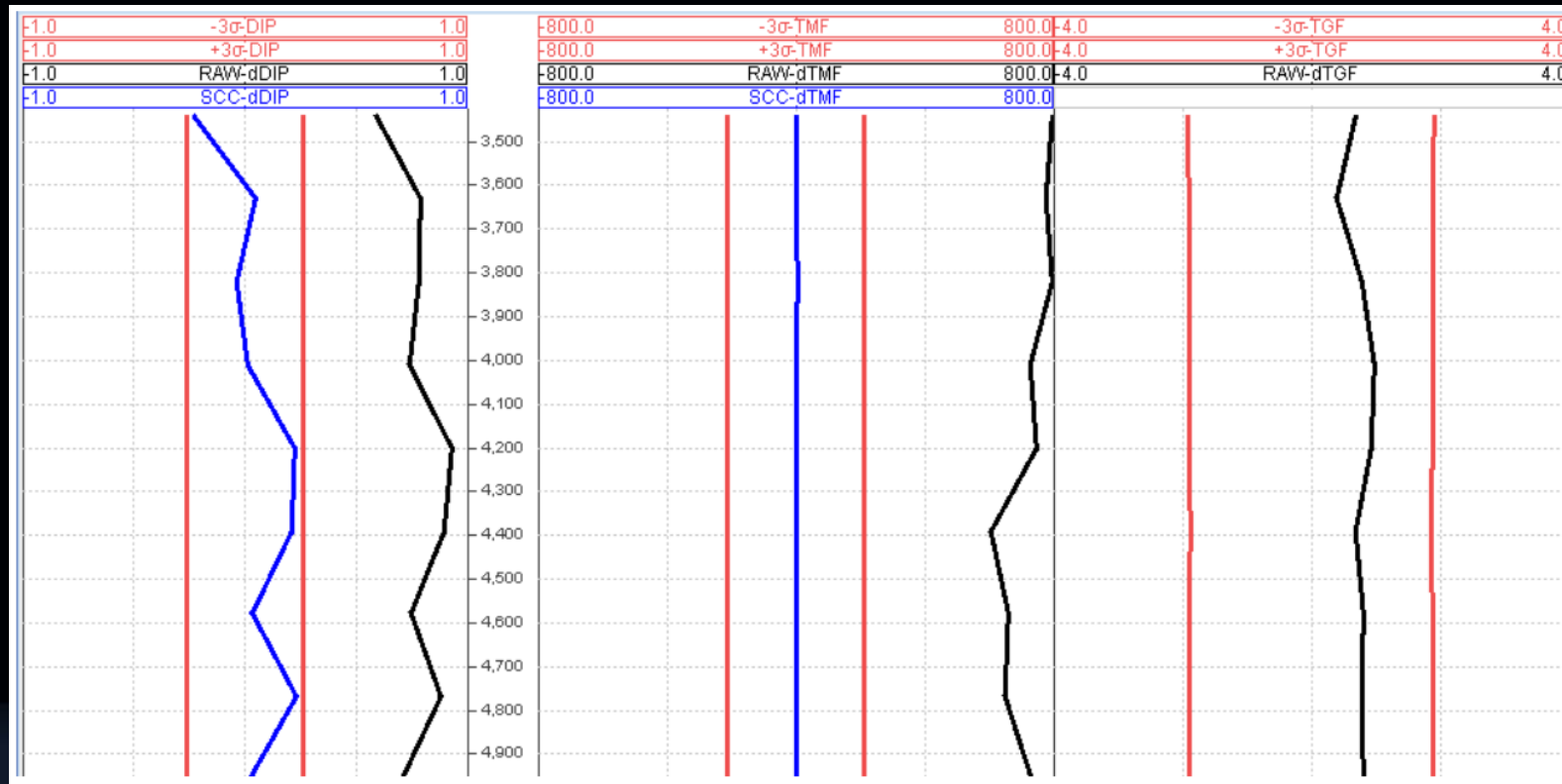


A single software solution packed with graphing, logging, remote operations, short collar corrections, shock & vibration, memory analysis, customized databasing and so much more. No additional software required. Compare memory from the tool down-hole to decoded on the surface with a single click. Produce .las logs directly from the MWD client



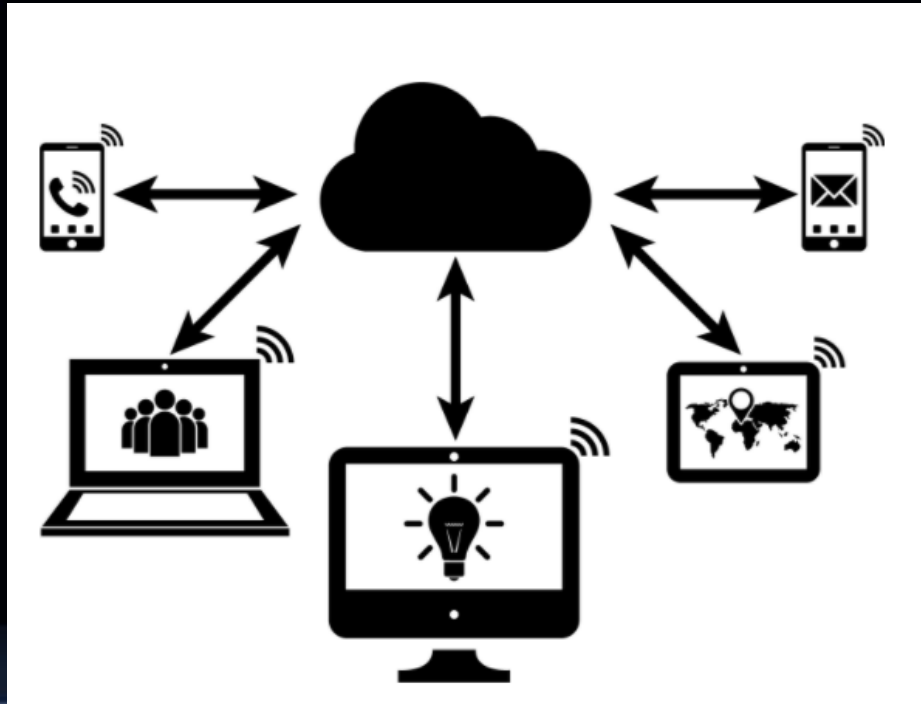
Gamma Logging Services
Software Package integrated

No keys or extra software
needed



The mwd software provides a real-time verification the instrument downhole is performing within it's calibrated specification limits.

Not to be confused with standard field MWD QC qualifiers, NISE displays graphs derived from the instrument performance model (IPM).

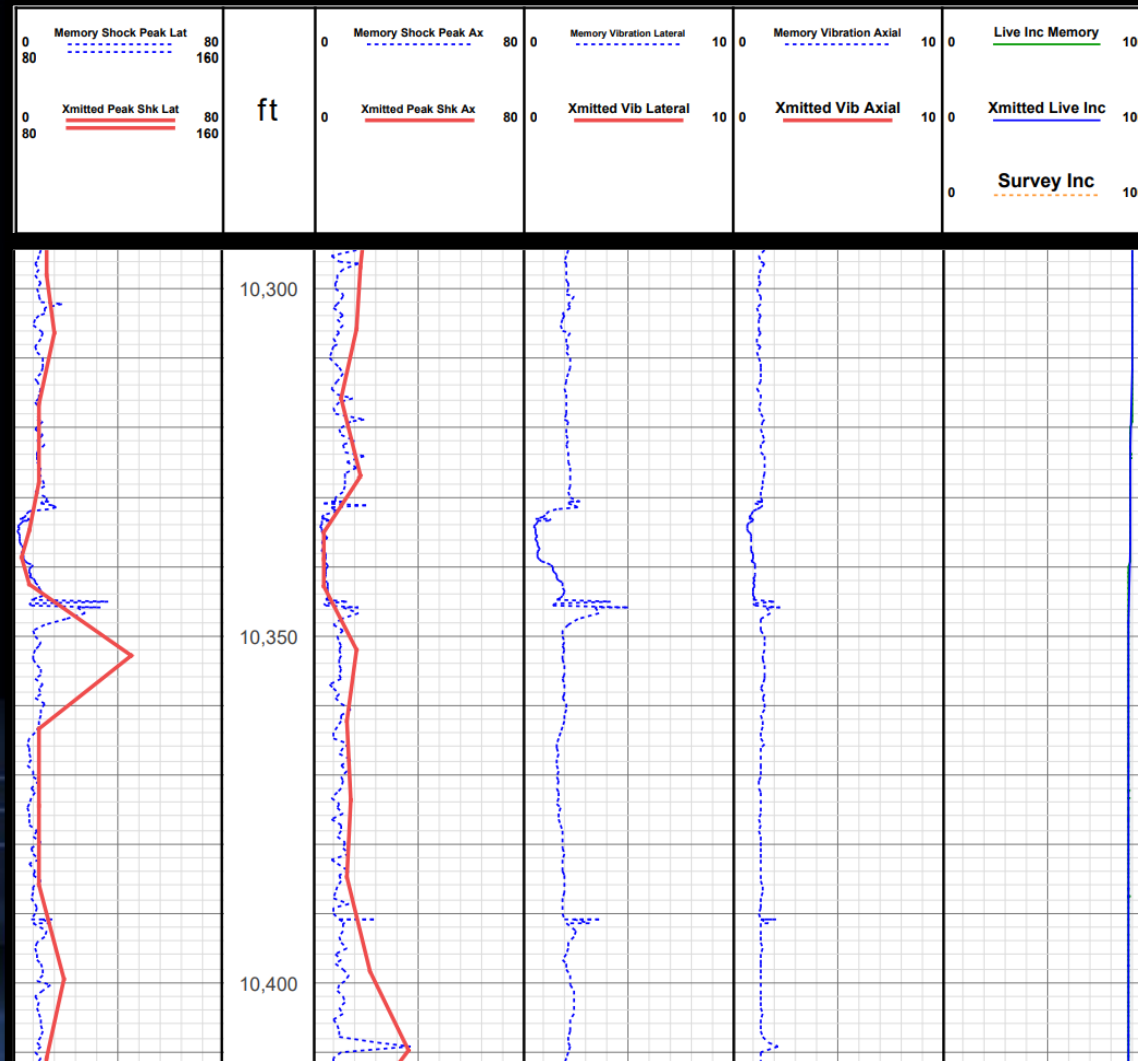


A cloud based web portal designed to track tools from production to the end of product life. With an active internet connection tool memory files, lifetime temperature, shock and vibration data, even the last MWD configuration file used are automatically pulled into the HUB. Need to open an old job or see the last time your tool was calibrated? Use the HUB to check the history. Assign personnel into "teams" limiting access or assigning specific file types. The HUB allows for the office to remotely operate any active jobs. Best of all; with the purchase of Noralis products HUB access is free

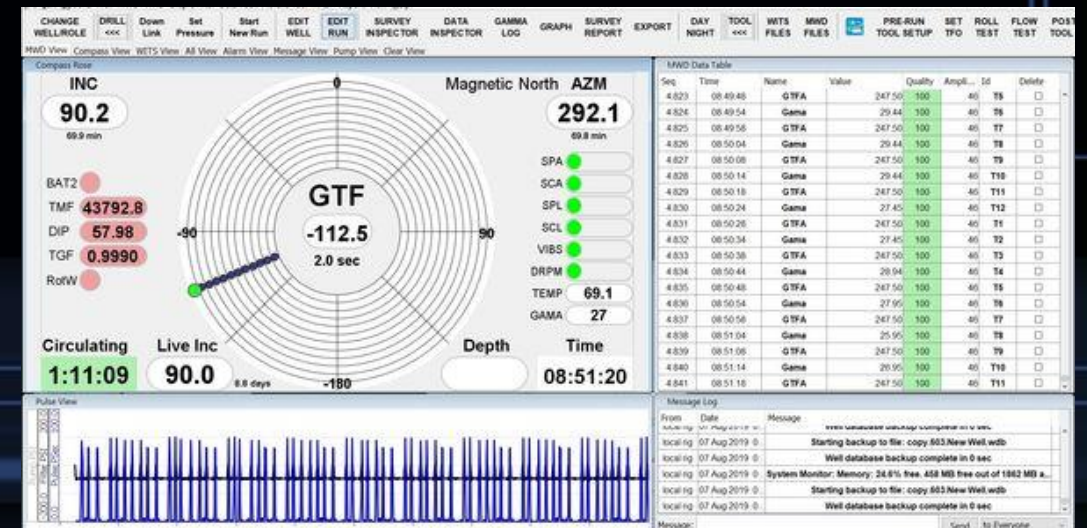
Antares MWD Specifications

Max Survival Temperature	175° C
Max Operating Temperature	165° C
Length	29.2" (74.17 cm)
Diameter	1.38" (3.5 cm)
Weight	3.1 lbs. (1.4 kg)
Vibration Qualification	20g RMS 15-500 Hz
Shock Qualification	1000G, 1 ms, half-sine
Sensor Shock & Vibe Qualification	250g RMS 10-500 Hz :: 3500G, 1ms, half-sine
Sensor Accuracy	16 bit
Inclination	± 0.1°
Azimuth @ 90° Inc. (Dip < 70°)	± 0.25°
Azimuth @ 45° Inc. (Dip < 70°)	± 0.375°
Dip Angle	± 0.4°
Total Gravity Field	± 0.0025 G
Total Magnetic Field	± 30 nT (± 0.00030 Gauss)
Input Voltage	9V - 40V
Power @ 28 Volts	1.15 W

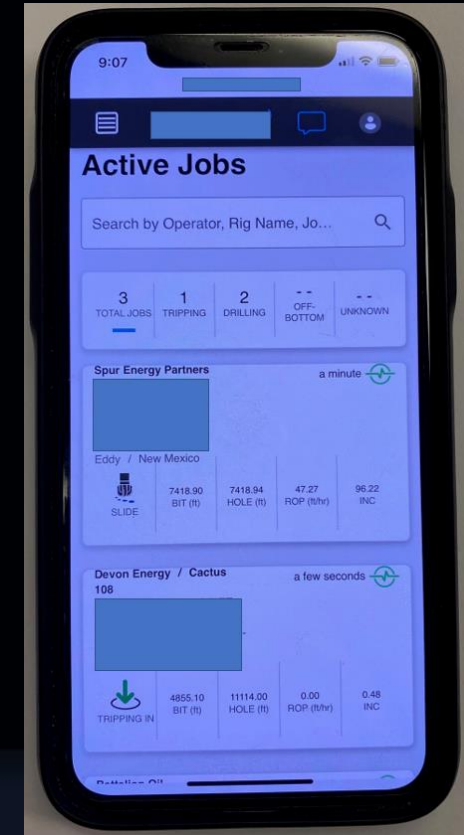
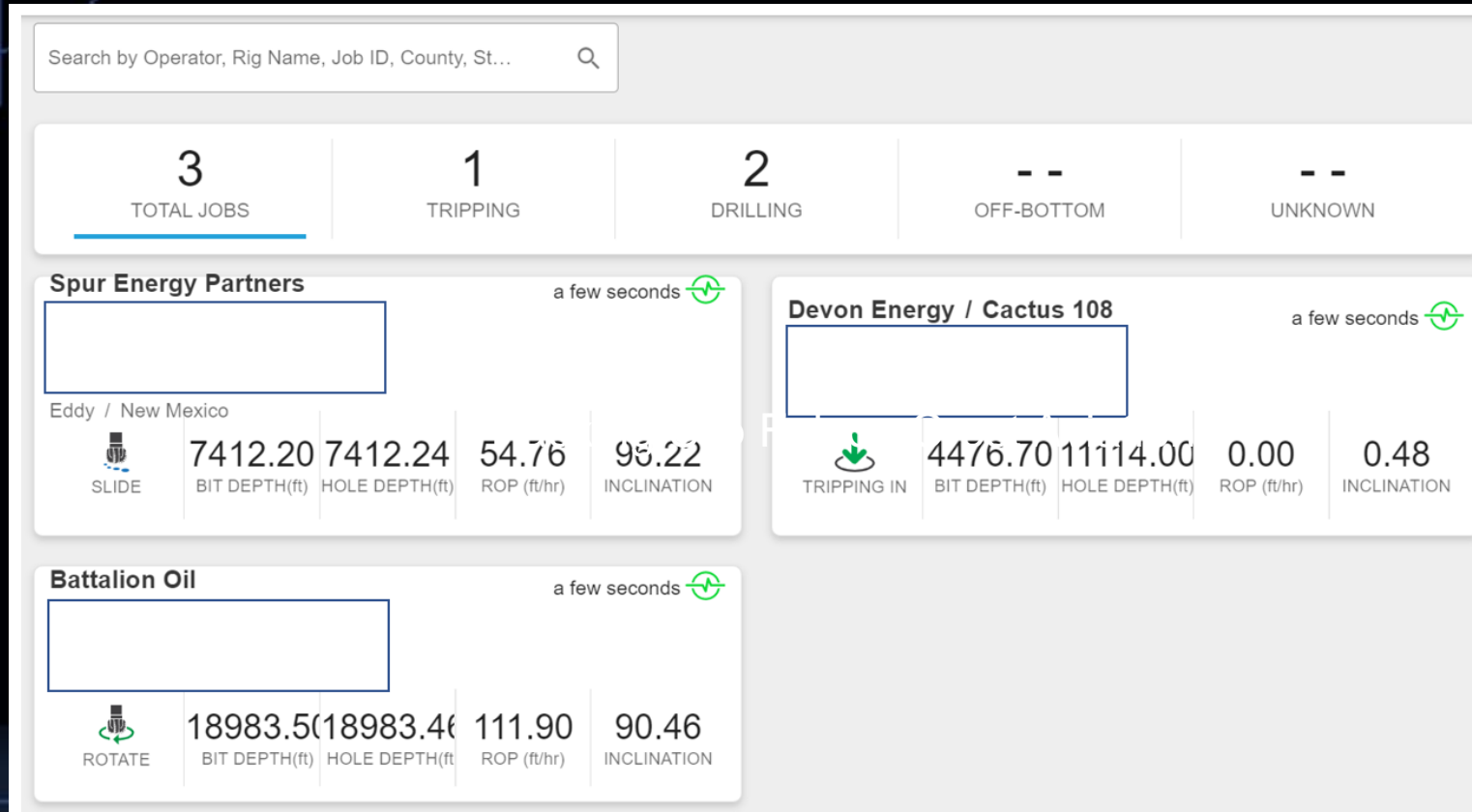
Transmission in Real Time



Dynamic Sequence
Live Inclination
Live Vibration Lateral & Axial
Live Shock Lateral & Axial
Live RPM- Min-Max & Average



Real Time Monitor- Cloud Base



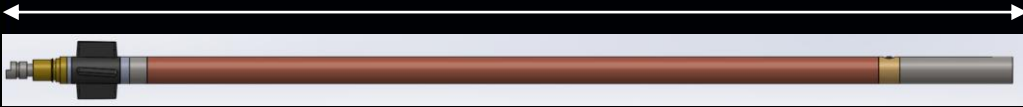
Monitor your operations in real time by website or with your phone

Dimensions Information

Pulser Module with Gamma 62" / 1.57 Mts.



Battery Module 67" 3/8 – 1.71 Mts.



Directional Module 51" 3/8 – 1.3 Mts.



Distance from bottom end to the Magnetometers 20"

MWD Kit Box: 108" X 46" X 33"

MWD Kit Box Weight : 1800 to 2300 Lbs.
816 to 1043 Kg.

MWD String no Gamma: 233" 3/4 / 19.47' / 5.93 meters/

MWD String with Gamma: 247" 3/4 / 20.64' / 6.29 meters/



Pulser /Gamma

Battery 2

Battery 1

Directional Module

Distance from the bottom end to the magnetometers: 216" 3/4 / 5.50 Meters