

SURVEY ON CONNECTION™

Providing the best in Wellbore Monitoring Systems for jointed pipe and coil applications, **Survey On Connection™** tools require no manpower on location and utilize automatic presentation of data.

LET XPULSE REDUCE YOUR SURVEY TIME AND OPERATING COSTS!

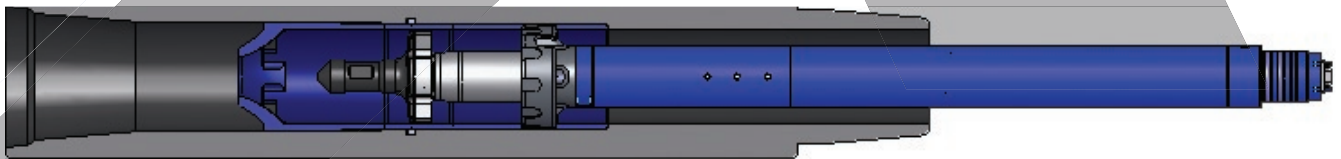
APPLICATIONS

- Placement of critical wellbores
- Monitoring vertical oil & gas wells where crossing a boundary is not an option
- Drilling to kick-off point before Directional Services are required & drilling ahead after Directional Services are released
- Monitoring doglegs to ensure that the logging tools & production casing can easily be deployed
- Control verticality of wellbore using Passive MWD™ Toolfacing



FEATURES

- Stand Alone – no operator required other than initial set up
- Efficient – surveys are stored automatically when making connections & transmitted to the surface during regular drilling operations reducing non-productive time
- Accurate – precision Inclination & Azimuth information
- Reliable – designed and constructed in-house using the most advanced engineering, design, & manufacturing processes
- Integral – reduces non-circulating time while surveying in critical wellbores
- Proven – reduces drilling time & operating costs

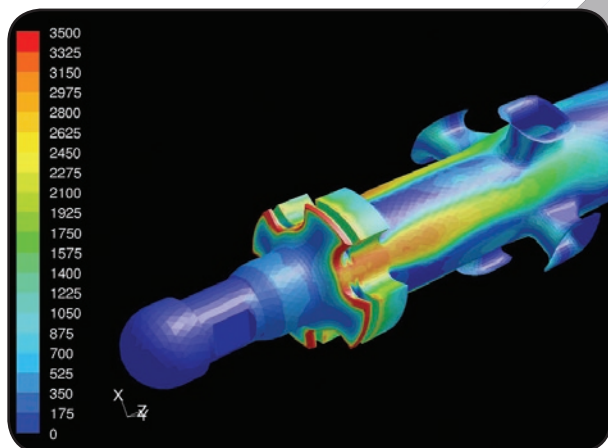


EFFICIENT. ACCURATE. RELIABLE.

SPECIFICATIONS

SYSTEM SPECIFICATIONS	
TELEMETRY TYPE	ENCODED MUD PULSE
SURVEY PRESENTATION (SURFACE RECEIVER)	AUTOMATIC DECODE, COLOR TOUCH DISPLAY, WITS INTERFACE, MEMORY LOG OF ALL DATA
PROBE DIAMETER	44 MM (1 3/4" DIAMETER)
BHA SIZES AVAILABLE	121 MM (4 3/4") 165 MM (6 1/2") CALL FOR OTHER OPTIONS
OPERATING TEMPERATURE	150° C MAXIMUM
OPERATING PRESSURE	138 MPA (20,000 PSI)
BATTERY TYPE	LITHIUM
BATTERY LIFE	1200 TO 1400 HOURS
PRESSURE DROP	276 KPA (40 PSI)

DIRECTIONAL SENSOR ACCURACY (0° TO 90°)	
INCLINATION	± 0.1°
AZIMUTH	± 1.0°
TOOLFACE	± 0.1°



Tools Modelled & Tested for
Downhole Conditions

Small Rig Footprint



Pulser

Total Tool Length
5.25 meters (17.5 feet)

Battery

Directional Module