PRIME MAPPING
A PIPE DATA FIELD SERVICE

ENHANCED RELIABILITY
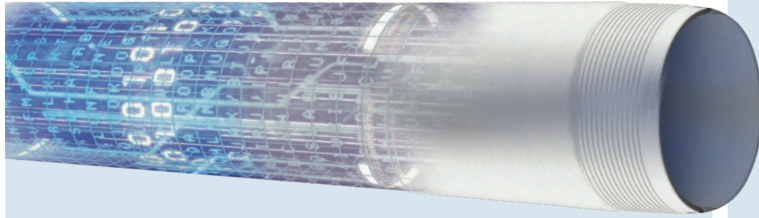
TIME & COST SAVINGS

HIGHEST OPERATIONAL PERFORMANCE

ACTUAL PIPE DATA
FOR HIGHEST DOWNHOLE
PERFORMANCE

- **PIPE BORE VOLUME FOR CEMENT DISPLACEMENT**
- **BEST PACKER-FIT PIPE SELECTION**
- **THICKEST PIPES PLACEMENT FOR CASING WEAR MITIGATION**
- **MAPPING SERVICE PERFORMED IN THE FIELD**

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SMART TUBULAR SOLUTIONS

CHALLENGES

Several downhole operations face non-productive-time due to lacking actual tubular geometrical data, such as: packer string cannot set, cement left-in-hole (plugs do not bump), or excessive casing wear.

SOLUTIONS

Prime Mapping service delivers accurate casing and tubing geometry dimensions in digital format. Data is collected directly on the rig or at the yard.

○ **Pipe bore volume for cement displacement**
Enhanced tally list with pipe volume from measured internal diameter (ID) & length for cement plug bump.

○ **Best packer-fit pipe selection**
Full length 360° ID map is analyzed and pipes with lowest ovality and ID min/max/avg in range are identified for best packer fit.

○ **Thickest pipes placement for casing wear mitigation**
Pipes with higher wall thickness (WT) are identified and segregated for placement in critical drilling sections providing higher casing wear margin.

RANGE

The service runs on:
○ Casing 7-18in OD   ○ Tubing 4.5-7in OD

A FLEXIBLE DATA SERVICE FOR ANY PIPE, ON ANY BENCH, AT ANY TIME

TECHNOLOGY USED

○ Geometrical data map obtained by an In-pipe Rover device using laser or ultrasound technology, or by caliper.

○ Pre-run tally includes: pipe length, ID, OD, WT, ovality, eccentricity, bore and metal volume.

A WINNING SOLUTION

An operator in the North Sea had its packer string stuck on top of the 7" liner leading them to pull out of hole and change the packer.

For the following well, Prime Mapping service was run at their yard to scan the full-length 360° ID map of 10" casings and select the best joints that fit the packer.

This resolved the issue, and the operator continues to call on Prime Mapping service for their wells' ID checks to save NPT and costs.

RIG EFFICIENCY

○ Only one Vallourec trained technician needed to run the service.

○ The collected digital data can also be an input for the well digital twin.

NEED MORE INFORMATION?

Information is available online on solutions.vallourec.com or by scanning the following QR code.

solutions.vallourec.com