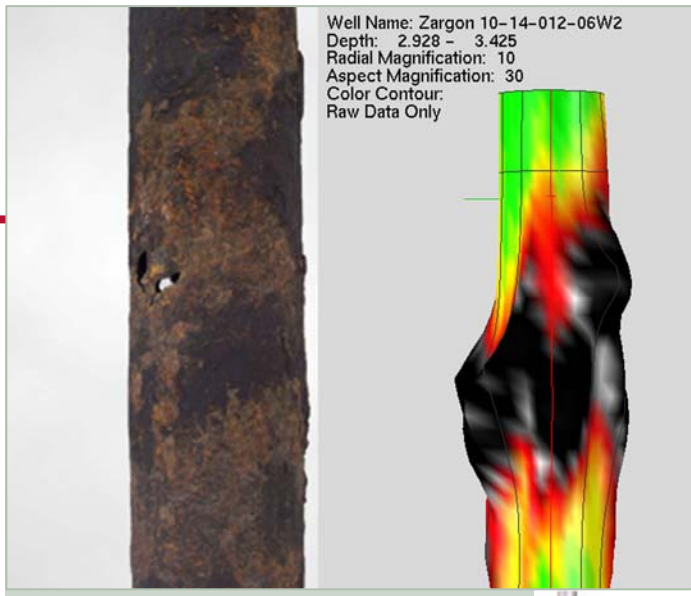
Weatherford®

REAL RESULTS

Casing Imaging Tool Finds Corroded Casing Section Where Other Methods Fail



Objectives

- Achieve pressure isolation in the wellhead seal between the surface and production casing strings. A previous attempt had focused on removing the wellhead and tubing but had been unable to determine where isolation problems were occurring.

Results

- Weatherford's casing imaging tool (CIT) was used to determine the exact location of production casing holes, pinpointing the problem to a section of corroded casing just 11-1/2 ft (3.5 m) below the surface. This proximity to the surface made it impossible to successfully use surface packer-pressure testing equipment or other competing devices. (With the coil-type sensors used in competing devices, measurement quality and accuracy suffer at the slow logging speeds required near the surface.)
- Damaged casing was successfully recovered from the well and replaced without significant diagnostic work.

Value to Client

- Use of the CIT allowed the client to successfully locate the damaged portion of the production casing, enabling remedial work to proceed without incurring additional, unnecessary expense.

Active Hall effect sensors in the CIT can measure static magnetic fields, eliminating the need to move the tool to generate a measurement. The results are improved measurement quality and elimination of the relationship between tool velocity and data quality found in competing coil-sensor devices.

Client
Zargon Oil & Gas Ltd.

Location
Saskatchewan, Canada

Type of Well
Water disposal

Casing Size
5-1/2 in., 140 lb/ft (139.7 mm, 20.8 kg/m)

Defect Depth
11-1/2 ft (3.5 m)

Products/Services
- Cased-hole logging services
- Casing imaging tool

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Real Result RR 4730.00