



# Weatherford®

## REAL RESULTS

### ACP™ Packer and Hydraulic Stage Tool Achieve Critical Liner Cementation in Geothermal Well

#### Objectives

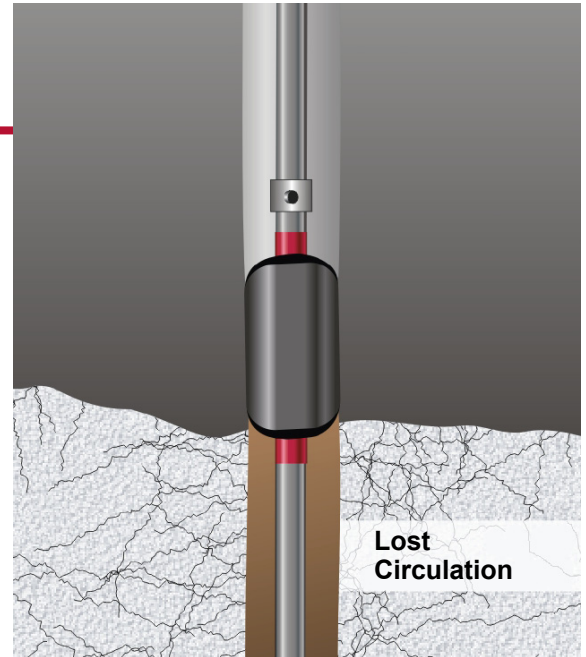
- Stop lost circulation during a second-stage liner cementing procedure by using an annulus casing packer and hydraulic stage tool.

#### Results

- Weatherford's 9 5/8-in. ACP annulus casing packer with 10-ft standard elastomer was run and inflated above a total-loss zone at approximately 11,154 ft (3,400 m) vertical depth.
- After the liner hanger was set and the running tool was released, the ACP packer was inflated with cement, and the hydraulic stage tool opened. Full returns were seen at the surface, indicating that the ACP packer had set in the openhole section, providing required zonal isolation to cement the liner.
- Complete liner cementation was achieved using the Model 854 SSR™ Sub-Surface Release™ plug system.

#### Value to Client

- Installation of the Weatherford ACP packer and hydraulic stage tool within the liner system enabled full returns after the setting procedure, permitting the operator to displace all water-based mud behind the liner with cement and without any losses.



Weatherford ACP packers furnish zonal isolation in critical wellbore locations, reducing well costs by eliminating squeeze jobs, while minimizing uneconomical water or gas production. They can also help to achieve significant improvements in well economics by eliminating primary cementing, perforating, and wellbore cleanup operations, resulting in lower costs with initially higher production rates.

#### Client

Geothermal operator in Germany

#### Location

Durrnhaar, Germany

#### Well Type

Geothermal

#### Setting Depths

- 9 5/8-in. casing shoe: 11,824 ft (3,604 m)
- 9 5/8-in. ACP: 11,240 ft (3,426 m)
- 9 5/8-in. hydraulic stage tool: 11,233 ft (3,424 m)
- 9 5/8-in. x 13 3/8-in. liner hanger: 6,804 ft (2,074 m)

#### Products/Services

- Stage cementing services
- ACP inflatable packer
- Hydraulic stage tool
- Model 854 SSR plug system