

## CASE STUDY: NETHERLANDS

# X-treme SJI mechanical slotting tool slotted, jetted, and washed away settled barite to pull 1,400 m of stuck casing in one piece

### CHALLENGES

- Stuck 7-in. 32# P110 casing from 0-1,400 m
- 1.86 s.g. mud on the backside of the casing had settled out over the years holding the casing in place
- 9 5/8-in. casing needed to be removed to place barrier laterally across the formation
- Standard cut and pull solutions had been tried without progress

### SOLUTION

- [X-treme SJI mechanical slotting tool](#) was used in close collaboration with the customer in testing and simulation, for its:
  - Ability to hydromechanically slot holes to locate the top of settled barite
  - Vortex effect of jetting with high velocity to loosen the settled barite before washing it up to surface over the shaker

### RESULTS

- Pulled 1,400 m of stuck casing in a single piece
- Saved seven days of operational time compared to standard cut and pull, perf and wash, or dual section milling
- Slotted 381 m of the total 1,400 m to jet and wash away settled barite an average of 3 m/min for 4,813 slots
- Prevented barite from coming over the shaker after 22 hours of washing
- Eliminated the need for explosives and manual handling
- Eliminated swarf to surface



Barite flows over the shakers during jetting and washing



The casing has been slotted, retrieved, and is laid out on deck