

**CASE STUDY: 7" HSRT: Hi-Speed Reaming Tool Reams Through Unstable Formation With Tight Spots and Cavings, Successfully Landing Casing At TD - ROMANIA | case study no. 0036**

**Overview**

**Date:** 06 Nov 2019  
**Location:** Romania  
**On/Offshore:** Onshore  
**Open Hole:** 8.50"  
**Section Length:** 2,137.5 meters  
**Casing Spec:** 7", 29 ppf, P110, TSH 523 Wedge  
**Location:** Claystone, calcareous, claystone, marls.  
**Hole Issues:** Wellbore instability, shale cavings



**Objectives**

Run 7" casing with the 7" HSRT: Hi-Speed Reaming Tool to target TD in the Meotian Formation at 2,137.5 meters.

Run and ream casing through tight hole and cavings by utilizing the unique hydraulically rotated cutting structure of the HSRT.

**Tool Deployment / Execution**

Picked up and made up 7" HSRT shoe track, function tested it and then continue running in hole to 9 5/8" casing shoe at 824 m. Casing RIH continued to 1,030 m.

Hole restriction was encountered @1,060 m, pumps were engaged 1400 LPM, casing was worked but no progress was made. String was picked up and flow increased to 1600 LPM casing and HSRT reamer was lowered back down to 1,060 m and worked past obstruction.

RIH operations continued and HSRT was used continuously to ream hole restrictions with flow rates ranging between 1400 LPM to 1600 LPM until casing reached TD @2,130 m. Total pumping hours through the tool was 43.75 hrs.

**Drill-out Performance**

**Bit:** 6" PDC  
**Duration:** 1 hrs  
**Parameters:** 610 LPM, 100 rpm, 3.5 tons

... continued next page

**CASE STUDY: 7" HSRT: Hi-Speed Reaming Tool Reams Through Unstable Formation With Tight Spots and Cavings, Successfully Landing Casing At TD - ROMANIA | case study no. 0036**

**Project Results**

The Hi-Speed Reaming Tool successfully landed the 7" casing string at TD through very challenging wellbore conditions. The tool was only run at about half its reaming / flow rate capacity but managed to ream through the encountered multiple hole restrictions.

**Well Profile**

