

# CASE HISTORY

## SCI-QUEST RESISTIVITY HELPS SAVE TWO DAYS OF DRILLING TIME

### APPLICATION

Casing Point Identification

### LOCATION

Helvetian Formation (Romania, Europe)

### TECHNOLOGY

Logging While Drilling (LWD)

- **Sci-Quest™** Resistivity
- **Sci-Gamma™** API Natural Gamma Ray

### CUSTOMER CHALLENGE

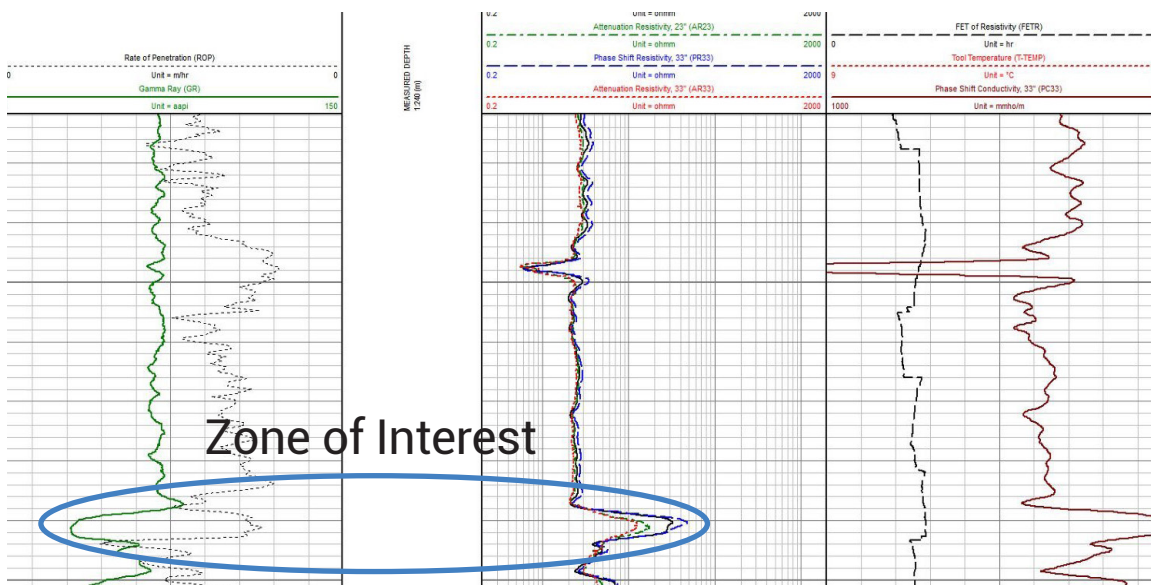
A major operator in Romania needed to make a determination on whether to set 7" casing or not based on whether water or oil was encountered in the zone of interest. They wanted to know this information real-time as the well was being drilled. To save time and money, they also did not want to run a resistivity wireline log after the well was drilled.

### SCIENTIFIC SOLUTION

Scientific Drilling worked with the operator to plan the well. To clearly identify the hydrocarbons from water, Scientific Drilling decided to run the Sci-Quest Resistivity tool in conjunction with Sci-Gamma. To meet client requirement of providing data real-time, the Sci-Quest and Sci-Gamma were run in conjunction with SDI's Mud Pulse MWD System. Using extensions, the Sci-Quest and Sci-Gamma sensors were placed directly on top of the mud motor reducing the bit-to-sensor offset. The smaller bit-to-sensor offset allowed the operator to quickly "see" the hydrocarbons and make a decision on where to set casing.

### CUSTOMER VALUE

Sci-Quest Resistivity, Sci-Gamma, Mud Pulse MWD and Directional Drilling were combined together to meet the clients challenge by delivering a well in the payzone of the reservoir. Because the resistivity data was collected real-time while drilling, the client was able to identify the payzone without having to drill any side tracks **saving a estimated two days of drilling time**. Additional savings were achieved by **not having to run wireline resistivity logs** at the end of the well.



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