

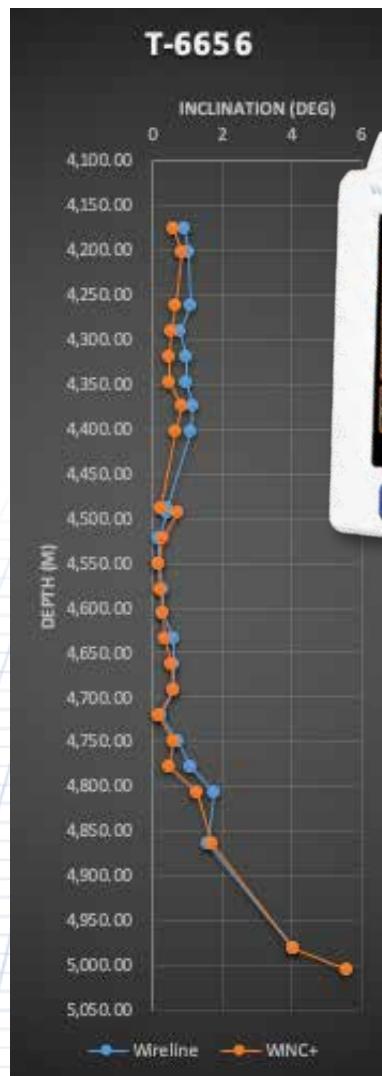
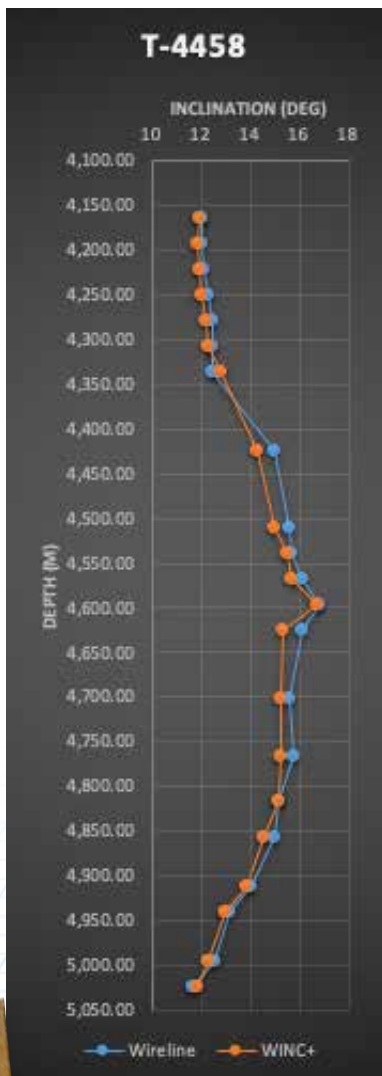
# WINC+ Tengiz Field Trials Show Remarkable Accuracy & Successful Results

## Objective:

To provide wellbore directional surveys, both real-time and recorded memory during CHCD (NCD) drilling.

Country: **Kazakhstan**  
 Operator: **TengizChevrOil**  
 Field: **Tengiz**

Well Profile: **S-type**  
 Hole Size: **6"**  
 Tool Size: **4.75"**



Results provided by:

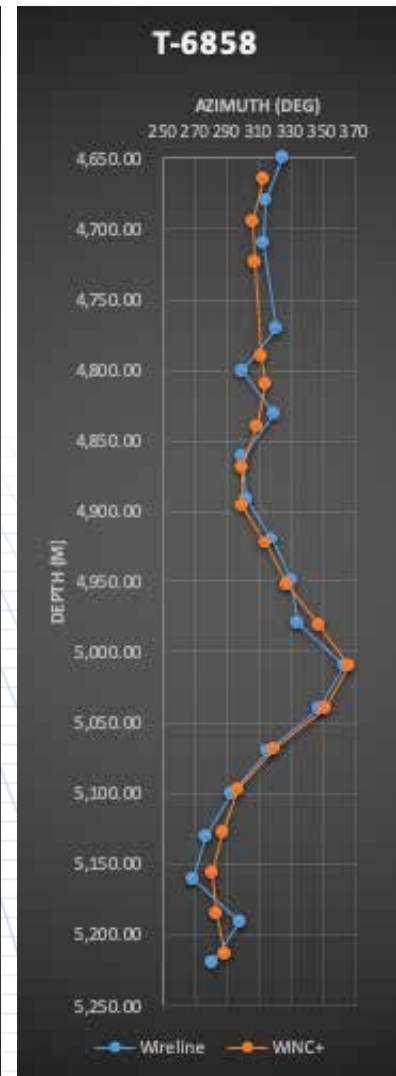
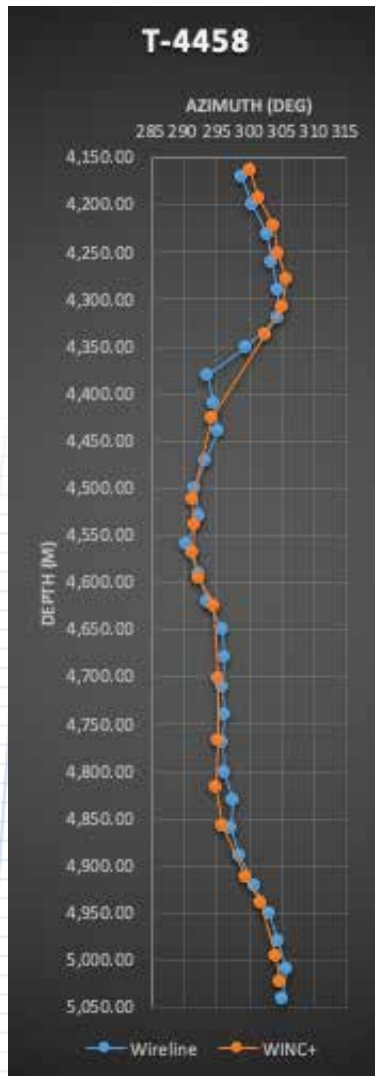
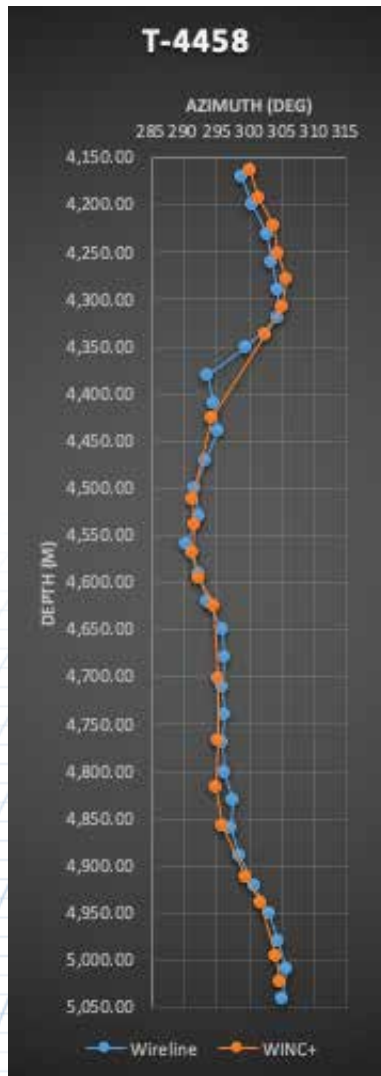
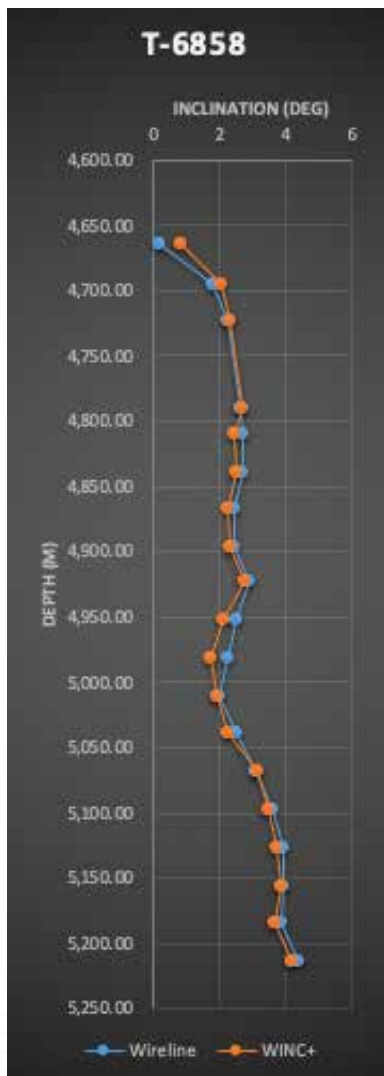


# WINC+ Tengiz Field Trials Continued

## Performance:

In March, 2020, OilTools Services LLP completed 3 trial wells for the Vertex WINC+ unmanned survey system in the Tengiz field of Western Kazakhstan.

The tool provided improved reliability in comparison to previous survey systems while providing both real-time and recorded memory wellbore surveys over the course of the trial runs in partnership with Weatherford. During stages of the Nitrogen Cap Drilling operation where the mud pulse telemetry was not possible due to total losses with 0 standpipe pressure, the system was able to successfully record data and provided surveys from tool memory. The survey accuracy was verified through comparison to the third-party wireline gyro after the run was completed.



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