

## CASE STUDY

# TRAINING THIRD PARTY VENDOR ENABLES RESPONSE TO SURVEY REQUIREMENTS FOR OPERATOR IN JAPAN

### ► TECHNOLOGY

- GyroGuide™ gyro surveying system

### ► APPLICATION

- Wellbore collision risk mitigation
- Remote operations support and training

### ► LOCATION

- Onshore Japan

### INDUSTRY CHALLENGE + OBJECTIVE

An operator in an onshore field in Japan needed to perform 2 ¾" Tubing Gyro resurvey in two of their wells to assess wellbore placement, as they were drilled in the 1960's. There was concern of a high risk of wellbore collision for their future development wells. The operator requested support during critical period, which made it logistically impossible to mobilize personnel into the country for the project, as ongoing COVID-19 protocol restrictions were in place. Gyrodata developed a plan to overcome these challenges while providing the operator with high-accuracy wellbore surveys which were required to mitigate the risk of wellbore collision.

## TECHNOLOGY + SERVICE SOLUTION

- Our GyroGuide gyro surveying system provides high-accuracy wellbore placement with positional, orientation, steering and continuous surveys.
- The system communicates to surface in real time via electric wireline.
- Gyro sensor technology, electronics and housing design allows the tool to be run in most tubing, drill pipe and casing sizes, as well as in an extensive range of pressures and temperatures.
- The Gyro-Guide allows remote operation for Gyro personnel, thus allows job execution without Gyro personnel physically be present at rig site.

## RESULTS + VALUE DELIVERED

- Considering the challenges of the job, the gyro team evaluated the scope of work and presented a safe method of remote operation to the client.
- To circumvent logistical requirements and allow rapid deployment to the rig, equipment was mobilised from the United Kingdom and an online training course was initiated with the wireline vendor in Japan.
- The customers wireline engineers were supported remotely from our regional office in Malaysia, with an expert providing instruction on rigging up, setting the gyro system into realtime mode, Rig up the Gyro system inside lubricator system, conveyance downhole, retrieving the system, and completion of all necessary pre / post jobs procedures.
- The two wells were surveyed successfully, and the data provided to the operator. If gyro surveys had been unavailable, the operator would not have been able to drill the future wells without dispensation and considerable risks.
- We confirmed that the two wells were properly separated and not at risk of collision with each other, or other wells in the field.
- The operator commended our efforts to rapidly respond to their needs, providing the necessary training to their wireline personnel for the project, and the quality of the survey data received.

