CASE HISTORY

gyroMWD MODULE PROVIDES ENSURES SUCCESSFUL RE-ENTRY & SAFE OPERATIONS

APPLICATION
Complex Abandonment & Re-Entry

TECHNOLOGY
gyroMWD Module

LOCATION
Kern County, California

CUSTOMER CHALLENGE

The Cymric field in Kern County is geologically unstable, which causes the subsurface to shift frequently. These shifts can cause the casing in producing wells to separate, requiring urgent abandonment. A re-entry is required to continue production from the same zone.

A major service company intercepted and killed one such well, but could not obtain accurate magnetic surveys while drilling away from casing to ensure a safe and successful re-entry.

SCIENTIFIC SOLUTION

Scientific Drilling provided the gyroMWD Module which was fully compatible with the customer's existing MWD system. The gyroMWD Module provided high accuracy surveys on every connection, followed by real-time gyro tool face updates.

This data was used to successfully kick-off the cement plug to drill ahead towards the target. The gyroMWD surveys were used as the definitive survey for the well's entirety even after the magnetic interference had cleared.

CUSTOMER VALUE

SDI's gyroMWD Module provided high accuracy surveys the customer required to safely and successfully perform this complex re-entry operation. Once free of magnetic interference, the system provided two sets of surveys, instilling the confidence to safely drill ahead.

Running the gyroMWD Module eliminated the need for alternative orientation methods and ensured there were no additional disruptions to operations - delivering significant cost and time savings.

PICTURED ABOVE
The rig site of the gyroMWD Module in Kern County California

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