

N-Net Japan PGM project

Observation Network for Earthquakes and Tsunamis



ParaTrack Gyro Module and AC Beacon

ParaTrack Gyro Module Outfall project

Distance: 773m

Depth: 82m

Entry & Exit angle: 20 degree & 10 degree

Horizontal curve: 23.4 Degree

Product pipe: Drill pipe 5"

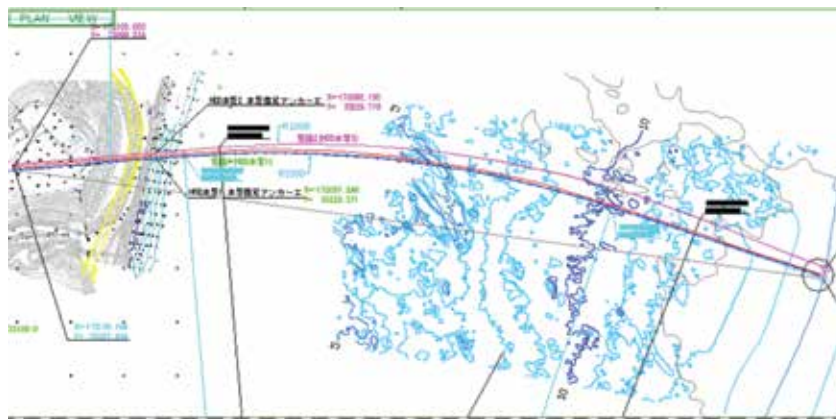
Tracking used: ParaTrack Gyro Module, surface coil & BTS

Technique: 6 3/4" Mud motor (Outfall)

Technique used: Gyro Module combined with Mud motor and At Bit Inclination Assembly (ABIA).

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We were required to drill the pilot bore from the top of the mountain through a 2m steel circular intermediate shaft, 48m below Entry elevation located at shoreline 132m away from the entry point, the intermediate shaft was required to control the mud pressure whilst drilling below the seabed. After running steel casing from entry to intermediate shaft, Pilot drilling continued drilling 641m out to sea turning 23.4° before punching out on the seabed with a 10° exit angle.

A 60m surface coil in combination with the BTS (AC Beacon) was used as secondary tracking between the entry point and the intermediate shaft to confirm the elevation before continuing through the shaft to exit. The ParaTrack Gyro Module was utilized from entry until punch out on the sea Floor, exit position was verified by Divers and the DHA removed 16m below sea level.

