

Geohazard Surveys



HEADQUARTERS

Level 10, Menara MBF,
No 22, Jalan Sultan Ismail
50250 Kuala Lumpur
MALAYSIA

T +60 3 2181 7763 / 7764

F +60 3 2181 7712

E info@hgis.com.my

www.hgis.com.my

HGIS geophysical offerings for Drilling Support comes from the core understanding of drilling operations. We ensure that operational and environmental integrity are mitigated by identifying all constraints and hazards from man-made, natural as well as geological features. Clients now can understand and plan for any potential relief well locations and assess potential top-hole drilling hazards at drilling locations. Our experienced specialist ensures the project management of our site survey campaigns provides granularity from project delivery, data interpretation and reporting.

Our wide range of support for offshore geohazard survey services includes:

- Site Investigation Survey for Exploration and Appraisal Well
- Site Investigation Survey for Development Wells
- Site Investigation Survey for Deepwater Wells
- Geohazards Site Survey for Bottom Founded & Platform Based Rigs
- Geohazards Site Survey for Anchored Rigs
- Geohazards Site Survey for Dynamically Positioned (DP) Rigs
- Seabed Debris Survey

FEATURES

- ✓ Acquire 2DHR Seismic Digital Data using energy or airgun source and a minimum 96 channel streamers for intermediate zone geological profile, high amplitude anomalies and structural mapping.
- ✓ Mapping, shallow anomalies such as high amplitude anomalies, gas fronts, faults and dipping.
- ✓ Seabed morphology mapping (seabed relief, seabed depression, seabed profile) and bathymetry.
- ✓ Acquire seabed images to identify seabed obstructions.
- ✓ Detect magnetic anomalies from buried cables, pipeline or explosives.
- ✓ Determine sediment composition and properties by acquiring core samples.
- ✓ Acquire all survey of both analogue and digital in a single-pass mode.



BENEFITS



High Quality Data

Provide high resolution imaging on the complex sedimentary processes, outflows of fluids and gas hydrate.



Fully-Equipped Analogue & Digital Vessels

Carry out onboard processing of Analogue and Digital seismic data preliminary reporting.



Integrated Geological Model

Precisely determine the water depth, create underwater image of seafloor, identify and characterize layers of sediment and terrain mapping.



De-Risk Operations

Acquire reports for geohazards assessments, assisting in rig move and any activities by analyzing low risk conditions for operations.



Flexibility and No Area Limitation

Combination of our Autonomous Surface Vehicle to maneuver near the existing facilities unreachable to vessels.



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SSDM Compliance

Industry standard GIS data model for seabed surveys deliverables.

