



**KINSALE AREA DECOMMISSIONING PROJECT**

**KINSALE HEAD PETROLEUM LEASE – OPL 1**

***APPLICATION TO CONDUCT AN OFFSHORE SURVEY***

***Kinsale Alpha & Bravo Platforms Shallow Geological Survey***

## Section 1 – Basic Survey

|    |  |   |
|----|--|---|
| a. | <b>Name of Operator</b>  | PSE Kinsale Energy Ltd  |
| b. | <b>Authorisation (Lease/Licence, PPL Number, Other)</b>  | Petroleum Lease OPL 1   |
| c. | <b>Type of Survey and details of work to be undertaken</b>   | Geophysical survey, with hull mounted or towed equipment, to determine the sand / chalk boundary around the jacket legs.  |
| d. | <b>Planned date of start of survey and estimated duration</b>  | Survey Window – April to September 2020.<br><br>Estimated duration 1-2 days (excluding possible weather standby).   |
| e. | <b>Location of Survey (latitude and longitude) together with a map on an appropriate scale showing detailed line layout, sampling locations etc as appropriate</b> | Around each platform, four lines, each of approximately 120-160m length, will be surveyed at 30m off each platform face.<br><br>Refer to Appendix A for Map of Survey Line Plan.<br><br>The extent of the survey box is defined by the coordinates presented in Appendix B.   |
| f. | <b>Positioning systems to be used for the survey</b>   | All records obtained will use the ED50 co-ordinate system for reporting.<br>Positioning systems will include: <ul style="list-style-type: none"> <li>• Differential Global Positioning System (DGPS) – DGPS Saab R5 or similar</li> <li>• Dynamic Positioning System – Kongsberg cJoy or similar</li> <li>• Ultra-short Baseline (USBL) – Kongsberg HiPAP 502 or similar</li> </ul> |
| g. | <b>Name and Address of contractor performing the survey</b>  | TBC   |

|           |  |  |
|-----------|--|--|
|           |  |  |
| <b>h.</b> | <b>Data and records expected to be obtained from survey</b>  | <ul style="list-style-type: none"> <li>• Navigation– ED50 / WGS84.</li> <li>• Bathymetry</li> <li>• Survey Outputs – AutoCAD DWG Charts, sub-bottom profile mapping, Geodatabase/ Shapefiles: <ul style="list-style-type: none"> <li>○ Seabed Features</li> <li>○ Sediments / Isopachs</li> </ul> </li> </ul>  |
| <b>i.</b> | <b>i. Type of energy sources to be used;</b>   | <ul style="list-style-type: none"> <li>• Pinger SBP: Knudsen Pinger SBP 3.5kHz/15Hz</li> <li>• Chirper SBP: Edgetech 3100 2-16kHz</li> <li>• Chirper SBP: Knudsen Chirp 3260 3.5kHz</li> <li>• Parametric (non-linear) SBP: Innomar SES2000 <ul style="list-style-type: none"> <li>○ Primary: 100kHz</li> <li>○ Secondary: 2-22kHz (planned = 2kHz-10kHz)</li> </ul> </li> </ul> |
|           | <b>ii. Length and configuration of seismic cables, depth at cables are maintained, speed when towing and what radar reflector supporting tail buoys are to be used;</b>  | N/A: No seismic cables will be deployed  |
|           | <b>iii. A risk assessment of the proposed activity in relation to the sensitivities of marine mammals in the area to the proposed operations and outlining specific impact mitigation and monitoring practices that will be applied during the survey in relation to marine mammals.</b> | <p>For risk assessments refer to:</p> <p>Kinsale Alpha and Bravo Platform Shallow Geological Survey - Environmental Impact Assessment Screening/Environmental Risk Report : March 2020</p> <p>Kinsale Alpha and Bravo Platform Shallow Geological Survey Appropriate Assessment Screening Report: March 2020</p>   |
| <b>j.</b> | <b>Not Applicable</b>  |  |
| <b>k.</b> | <b>Identification of vessel(s) to be used in the survey</b>  | Marine vessel proposed will be confirmed later - refer to Appendix C.  |
| <b>l.</b> | <b>Contact details for those who will supervise survey operations:</b>   |  |
|           | <b>(1) In the Operator’s office</b>  | M.V. Murray, PSE Kinsale Energy Limited,   |



## ***Section 2 – Detailed Information on survey to be undertaken***

### **Project Background**

PSE Kinsale Energy Limited (Kinsale Energy) is preparing for the decommissioning of the Kinsale Area gas fields and facilities (incorporating the Kinsale Head gas fields and facilities and the Seven Heads gas field and facilities), which are coming to the end of their productive life.

As part of the removal of the Kinsale Alpha and Bravo jackets, some excavation of surficial seabed sediments may be required to access the piles to allow external cutting of the piles below the jacket legs.

The surficial sediments across the Kinsale Head area are shallow, with sub-cropping chalk present near the surface. It is proposed that a survey is undertaken in order to determine the present depth of the surficial sediments at each platform to inform the level of any excavation required. For the purposes of jacket lift, it is only required to determine whether the chalk/seabed sediment contact is within 5m of the seabed.

### **Site Survey Scope of Work**

One of two methods will be employed to conduct the survey, hull mounted or towed equipment. In either case the following preparations will be carried out prior to the survey commencing:

- Mobilization of all equipment and vessel
- Alongside calibration and/or verification of equipment (if this has been conducted on a previous project it may not be required)

Once entering the field, a sound velocity profile will be collected to determine the local speed of sound in water. The survey will then be conducted by sailing lines along each face of the platform. Where towed equipment is utilized the equipment will first be over boarded prior to the sailing of the survey lines.

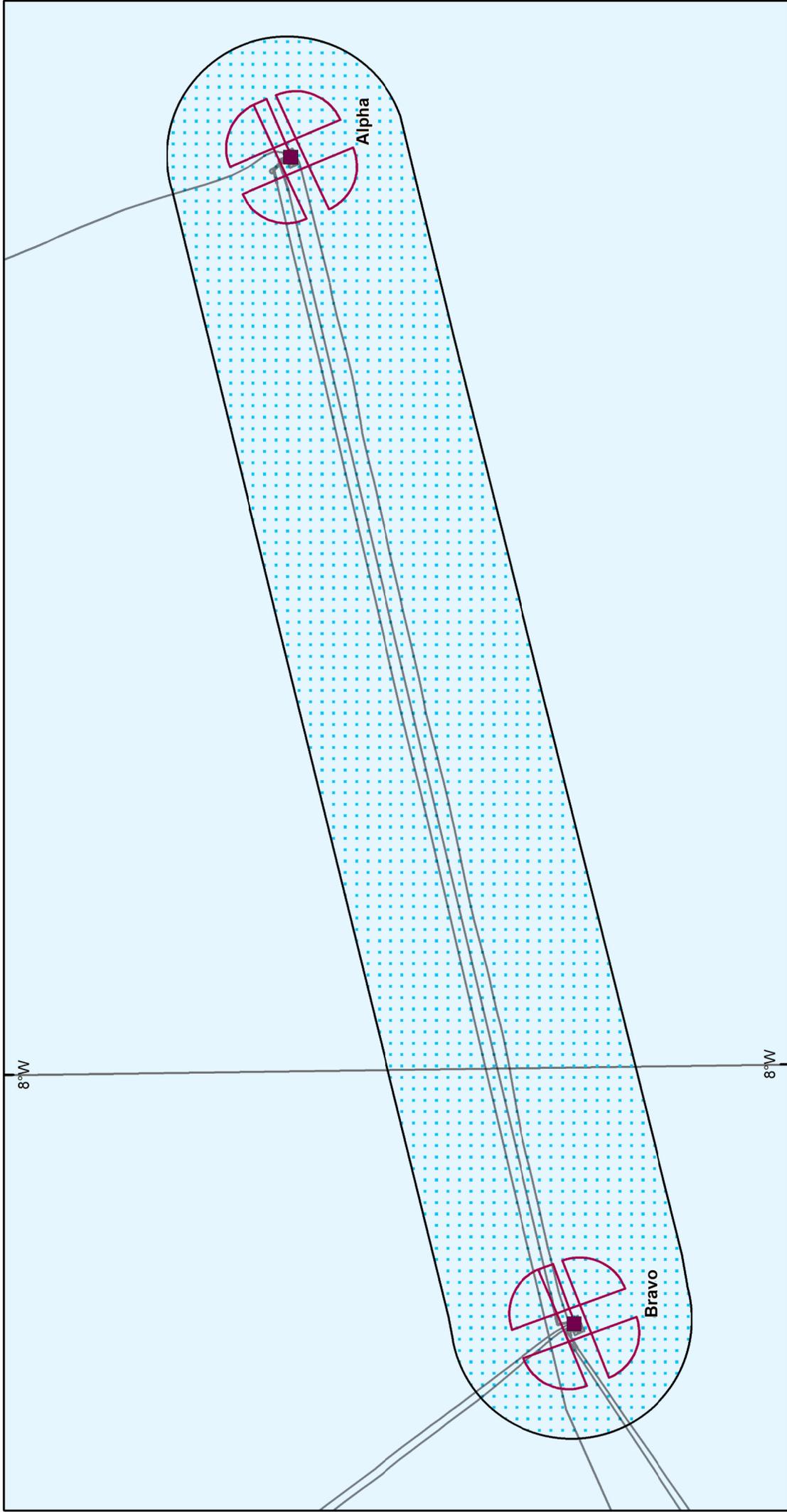
During the survey the data acquisition will be monitored for data quality and coverage, additional lines may be run if required.

## Survey Vessel – Details

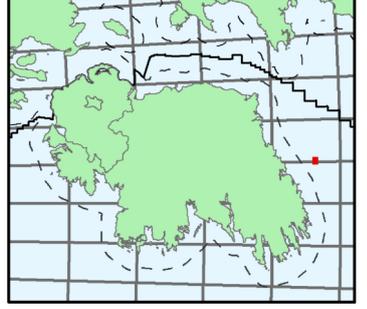
|   |                   |                      |
|---|-------------------|----------------------|
| <b>Name</b>   | TBC               |                      |
| <b>Radio Call Signal</b>                                    | TBC               |                      |
| <b>Flag, Port of Registry</b>                               | TBC               |                      |
| <b>Classification</b>                                       | TBC               |                      |
| <b>Built</b>  | TBC               |                      |
| <b>Maritime Mobile Service Identity (MMSI No.)</b>          | TBC               |                      |
| <b>IMO Ship Identification No.</b>                          | TBC               |                      |
| <b>Length (LOA)</b>   | TBC               |                      |
| <b>Beam</b>   | TBC               |                      |
| <b>Draught</b>  | TBC               |                      |
| <b>Tonnage</b>  | TBC               |                      |
| <b>Owner</b>  | <b>Owner:</b> TBC | <b>Operator:</b> TBC |
| <b>Address</b>  | <b>Owner:</b> TBC | <b>Operator:</b> TBC |
| <b>Contact details (mobile number &amp; e-mail address)</b> | <b>Owner:</b> TBC | <b>Operator:</b> TBC |

## Appendix A - Survey Location Map

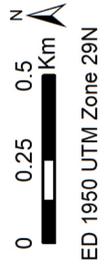
| Drawing No.               | Drawing Title                          |
|---------------------------|--|
| HAL_KIN1_G18_VER01        | Indicative Survey Lines for KA and KB  |
| CP0528.00000-SK-101-01-01 | Alpha Platform Bottom Survey Line Plan |
| CP0528.00000-SK-201-01-01 | Bravo Platform Bottom Survey Line Plan |



Data source:  
DCCAE, Kinsale Energy.



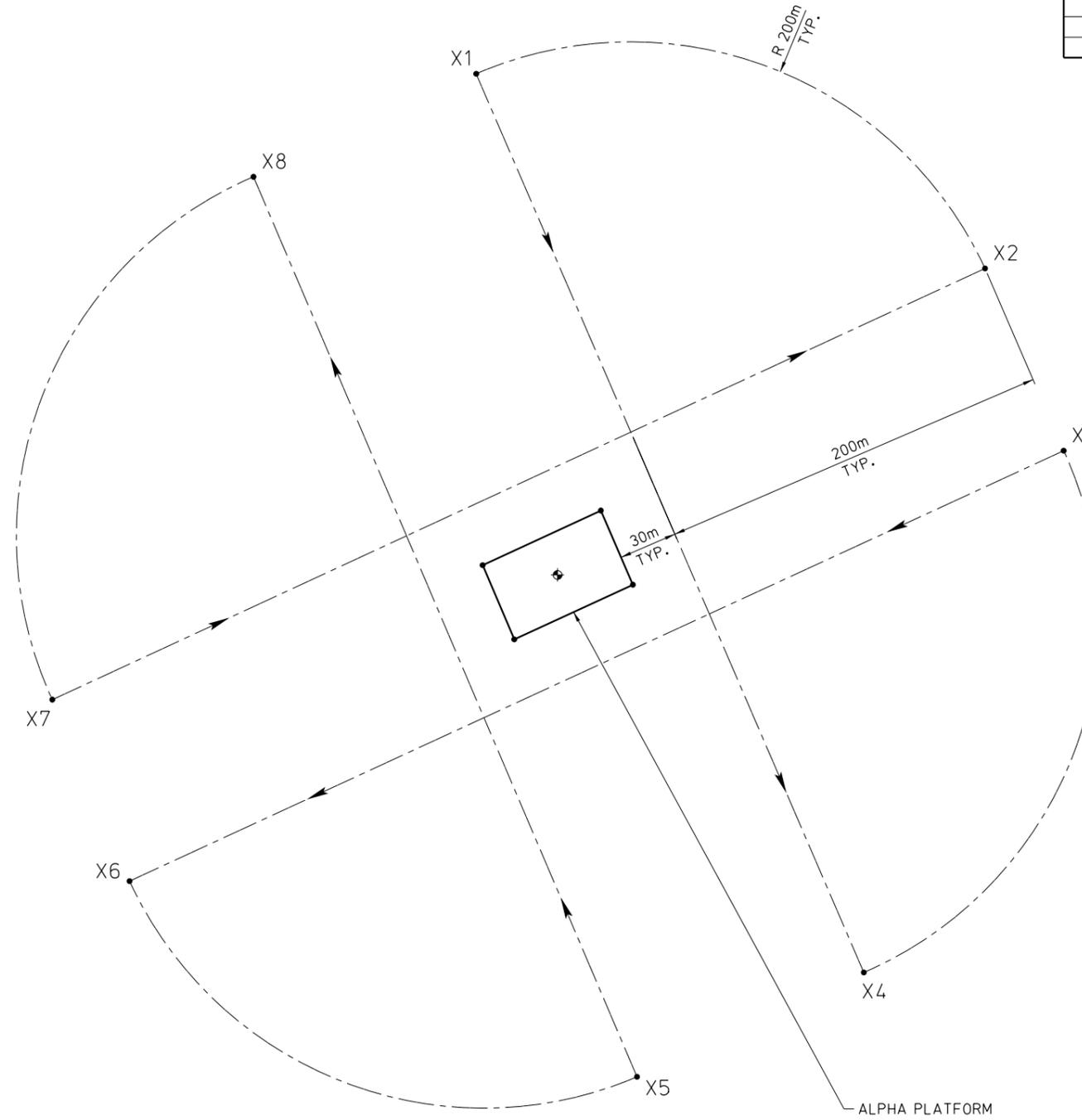
- Legend**
- Platform
  - Pipeline
  - Bottom survey line plan
  - ▨ 500m exclusion zone



ED 1950 UTM Zone 29N

ALPHA PLATFORM

| POINT | ED50, UTM 29N |               | ED50          |                |
|-------|---------------|---------------|---------------|----------------|
|       | X (EASTING)   | Y (NORTHING)  | LATITUDE      | LONGITUDE      |
| X1    | 573 405.5 m   | 5 691 964.8 m | 51°22'23.273" | -07°56'43.588" |
| X2    | 573 666.3 m   | 5 691 865.0 m | 51°22'19.922" | -07°56'30.176" |
| X3    | 573 706.6 m   | 5 691 771.7 m | 51°22'16.883" | -07°56'28.162" |
| X4    | 573 604.2 m   | 5 691 504.4 m | 51°22'08.280" | -07°56'33.656" |
| X5    | 573 487.9 m   | 5 691 450.9 m | 51°22'06.603" | -07°56'39.709" |
| X6    | 573 227.8 m   | 5 691 551.2 m | 51°22'09.970" | -07°56'53.083" |
| X7    | 573 188.2 m   | 5 691 644.1 m | 51°22'12.995" | -07°56'55.062" |
| X8    | 573 291.4 m   | 5 691 912.0 m | 51°22'21.617" | -07°56'49.527" |

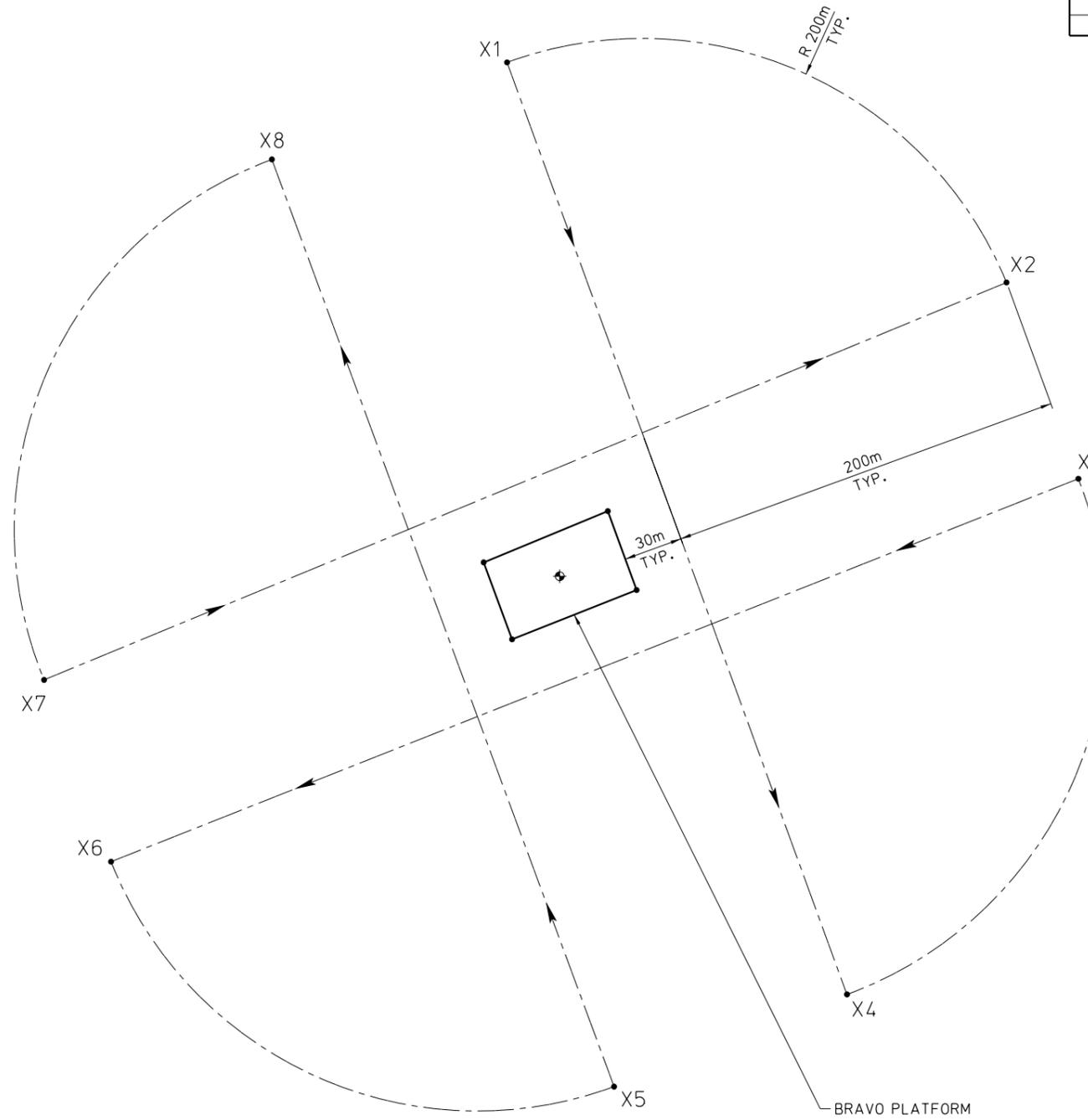


KINSALE ALPHA & BRAVO EPRD

ALPHA PLATFORM  
BOTTOM SURVEY LINE PLAN

BRAVO PLATFORM

| POINT | ED50, UTM 29N |               | ED50          |                |
|-------|---------------|---------------|---------------|----------------|
|       | X (EASTING)   | Y (NORTHING)  | LATITUDE      | LONGITUDE      |
| X1    | 568 522.9 m   | 5 690 787.5 m | 51°21'47.367" | -08°00'56.883" |
| X2    | 568 776.3 m   | 5 690 676.0 m | 51°21'43.648" | -08°00'43.860" |
| X3    | 568 812.8 m   | 5 690 576.4 m | 51°21'40.408" | -08°00'42.043" |
| X4    | 568 695.4 m   | 5 690 315.0 m | 51°21'31.999" | -08°00'48.294" |
| X5    | 568 577.2 m   | 5 690 268.2 m | 51°21'30.536" | -08°00'54.437" |
| X6    | 568 321.9 m   | 5 690 382.2 m | 51°21'34.336" | -08°01'07.555" |
| X7    | 568 288.0 m   | 5 690 474.4 m | 51°21'37.335" | -08°01'09.244" |
| X8    | 568 403.6 m   | 5 690 738.3 m | 51°21'45.826" | -08°01'03.085" |



KINSALE ALPHA & BRAVO EPRD

BRAVO PLATFORM  
BOTTOM SURVEY LINE PLAN

## Appendix B - Survey Line Listing

| ALPHA PLATFORM |               |               |               |                |
|----------------|---------------|---------------|---------------|----------------|
| Point          | ED50, UTM 29N |               | ED50          |                |
|                | X (EASTING)   | Y (NORTHING)  | LATITUDE      | LONGITUDE      |
| X1             | 573 405.5 m   | 5 691 964.8 m | 51°22'23.273" | -07°56'43.588" |
| X2             | 573 666.3 m   | 5 691 865.0 m | 51°22'19.922" | -07°56'30.176" |
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| X8             | 573 291.4 m   | 5 691 912.0 m | 51°22'21.617" | -07°56'49.527" |

| BRAVO PLATFORM |               |               |               |                |
|----------------|---------------|---------------|---------------|----------------|
| Point          | ED50, UTM 29N |               | ED50          |                |
|                | X (EASTING)   | Y (NORTHING)  | LATITUDE      | LONGITUDE      |
| X1             | 568 522.9 m   | 5 690 787.5 m | 51°21'47.367" | -08°00'56.883" |
| X2             | 568 776.3 m   | 5 690 676.0 m | 51°21'43.648" | -08°00'43.860" |
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| X8             | 568 403.6 m   | 5 690 738.3 m | 51°21'45.826" | -08°01'03.085" |

## **Appendix C – Vessel Data Sheet**

TBC once vessel confirmed