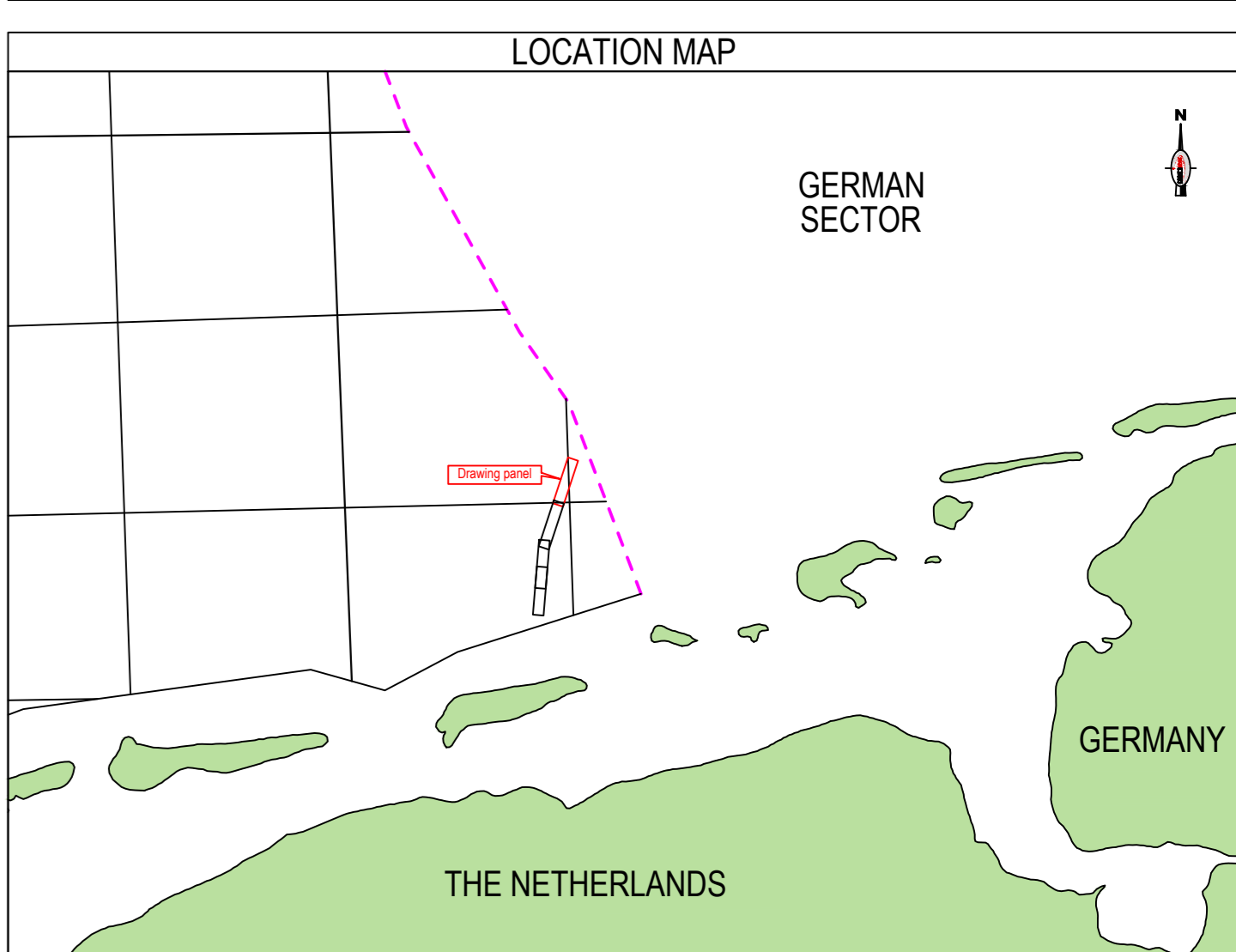


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SURVEY EQUIPMENT		GEODETTIC INFORMATION	
Positioning:	Fugro SeaStar 1200	Horizontal datum:	European datum 1950 (ED 50)
Motion sensor:	R2Sonic 2024	Spheroid:	International 1924
Sound velocity probe:	POS-MV OceanMaster	Semi-major axis:	a = 6378388.00m
Side scan sonar:	Valeport - Swift	Semi-minor axis:	b = 6356811.95m
USBL:	Edgetech - 4000	First eccentricity squared:	e ² = 0.0067223
Magnetometer:	Scandynavia Ranger 2	Inverse flattening:	1/f = 297.003
Sub Bottom Profiler:	Geometrics - G882	EPSG code:	23031
Seismic source:	Massa TR107SD	Projection:	UTM31N
	GSD 180 Sparker	Central meridian:	0° east
		Latitude of origin:	0°
		False easting:	500000.00m
		False northing:	0.00m
		Scale factor at central meridian:	0.9996
		Units:	Metres
		Vertical datum:	Lowest astronomical tide (LAT)

SURVEY SOFTWARE	
Online/offline survey suite:	QINSy / Version 8.1
SSS Acquisition:	Edgetech Discover
SSS Processing:	COBRA Survey Engine V.4.3
SBP Acquisition:	Siemer SILAS Acquisition
SBP Processing:	Siemer SILAS Processing
MAG Acquisition:	QINSy / Version 8.1
MAG Processing:	Oasis Montaj

SURVEY DATES	
Geophysical acquisition (MBS, MAG, SSS, SBP):	Geo Ocean III: 28/04/2019 until 15/05/2019

HYDROGRAPHIC SURVEY
NSA development - pipeline route & platform area survey

N5A TO NGT HT ROUTE
Pipeline route
KP 0.000 to 4.170

Bathymetry - Seabed features - Isopach - Longitudinal profile

Chart: 001/004 Scale: 1/5000 LAT

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Issue no:	Date:	Description:	Drawn:	Checked:
1	12/05/2019	Second internal review	STH	RSPTTB
2	15/05/2019	Head for issue	STH	RSPTTB
3	15/05/2019	Client remarks	STH	RSPTTB
4	01/10/2019	Client remarks	STH	RSPTTB

Planname: LU00224-SSS-DR-007-PR-1.4-v4.0 Project ref: N5A-7-50-0-72009-01 sht 1 of 4

