

TP50b
455 696 E
4 319 596 N
KP 279.848

SEAGRASS matte over CLAY

Magnetometer contact 5

HEADING 34.81°

Magnetometer contact 4

G-BH-NS-PB-02

Magnetometer contact 3

Magnetometer contact 2

SEAGRASS matte over CLAY

HEADING 34.81°

G-BH-NS-PB-01

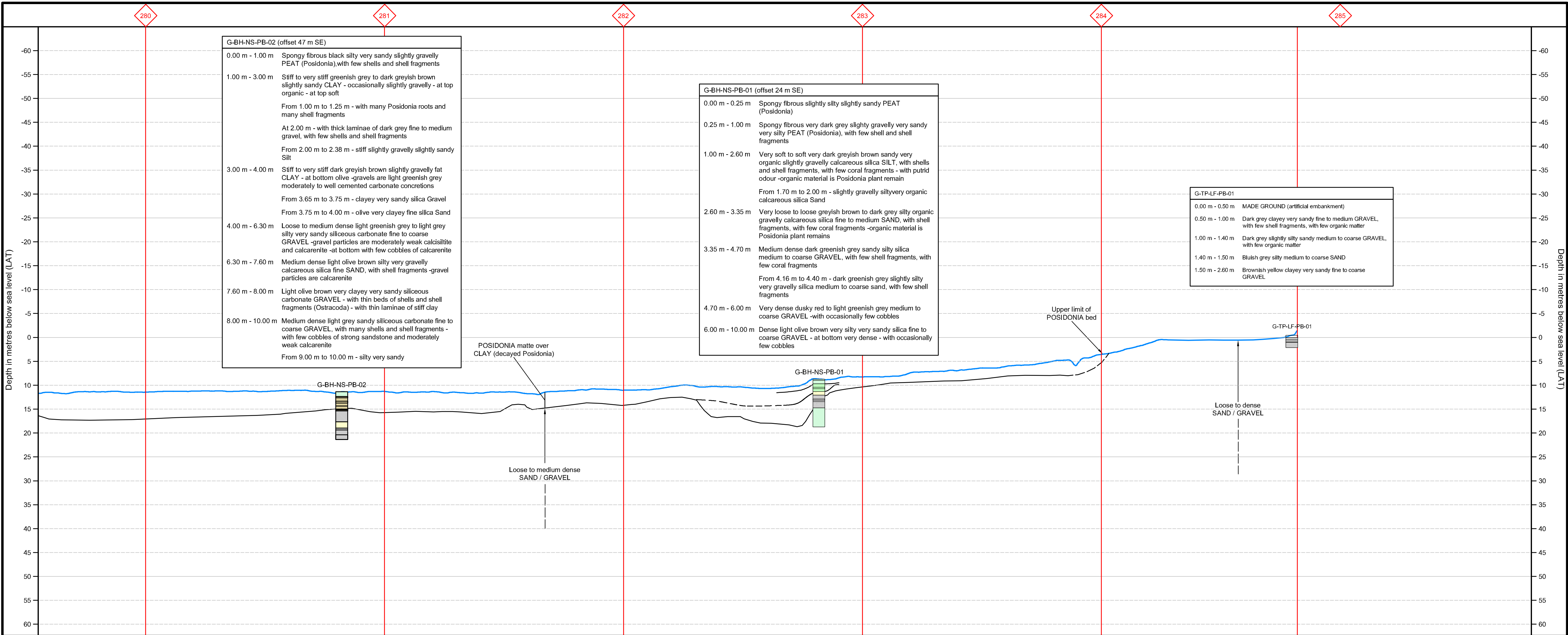
SEAGRASS matte over CLAY

LANDFALL POINT
458 535 E
4 323 680 N
KP 284.822

FOR SHORT ONSHORE ALIGN. SHT. SEE DWG. 05-300-P-0-3090 TO 3091

Landfall Route

HORIZONTAL SCALE 1 : 10,000 VERTICAL SCALE 1 : 500 (x20 VERTICAL EXAGGERATION)



KILOMETRE POST	KP 280.0	KP 281.0	KP 282.0	282.700	KP 283.0	284.620	284.050	284.150	284.720	KP 284.822
PIPE SECTION DETAILS	585.8 mm ID x 17.5 mm WT- SAWL DNV 485 IFDU									585.8mm ID x 30mm WT SAWL DNV 485 IFDU
EXTERNAL COATINGS	3.8mm Thk 3 LAYER POLYPROPYLENE (PP) @ 900 kg/m ³ + 75 mm Thk @ 3040 Kg/m ³ CONCRETE WEIGHT COATING									3.8mm 3 LAYER PP @ 900 kg/m ³ + 40 mm Thk @ 2240 Kg/m ³ CWC
BUCKLE ARRESTOR	NO BUCKLE ARRESTOR									
ANODES	ANODE TYPE: AS1 1 in 21 JOINTS									ANODE TYPE: AS2 1 in 19 JOINTS
LAY TOLERANCE	+/- 2m									
INTERVENTION DETAILS	POST-LAY TRENCH & BURIAL 1.25m SOIL + 0.75m ROCK TOP				POST-LAY TRENCH & BURIAL 2.0m SOIL TOP			NOTE 2	COFFERDAM 2.5M T.O.P. BELOW MEAN SEABED & BACKFILL 2.5M SOIL	
MINIMUM BEND RADIUS	518m									613m
ALLOWABLE SPAN LENGTHS	52.27m INSTALLATION, 43.3m FLOODED, 28m OPERATION									

LEGEND:

	International boundary / 12 nm limit		In service cable (from data base)
	Limit of side scan sonar coverage		Out of service cable
	Line of longitudinal profile		Planned cable
G-V-C-QSAS-80	Geotechnical sample / test location		Chart overlap

PIPELINE ROUTE

Kilometre Post indicating distance from landfall

AS5_REV10M FEED pipeline route

BATHYMETRY / TOPOGRAPHY

Major bathymetric contour at a 10 m interval relative to LAT

Minor bathymetric contour at a 1 m interval relative to LAT

Major topographic contour at a 5 m interval relative to LAT

Minor topographic contour at a 1 m interval relative to LAT

All survey depths are reduced to Lowest Astronomical Tide (LAT)

SEDIMENT TYPES

	SILT			GRAVEL
	Undisturbed seabed			CORAL
	Undulating seabed due to buried mass movement deposits			CARBONATE
	Surface mass movement deposits			MESSINIAN EVAPORITES
	Exposed failure plane			ROCK
	SAND			SEA GRASS (POSIDONIA)

SEABED FEATURES

	Seismic boundary (dashed where inferred)		Wire / cable
	Scarp / significant break of slope		As found cable (by SSS)
	Ridge axis		As found cable (by ROV)
	Localised ridge		Linear debris with dimensions (length x width x height) in metres
	Break of slope		Linear debris from ROV with dimensions (length x width x height) in metres
	Fault outcrop / subcrop		Sonar contact with dimensions (length x width x height) in metres
	Gully		Carbonate deposit with dimensions (length x width x height) in metres
	Trench		Depression less than 12 m in diameter
	Ripple mark orientation		Depression 12 m or greater in diameter
	Limit of area of numerous sonar contacts		Coral mound
	Limit of area of numerous small seabed depressions		Rock outcrop with dimensions (length x width x height) in metres
	Limit of area of numerous seabed scars		Wreck with dimensions (length x width x height) in metres
	Seabed scar		

LONGITUDINAL PROFILE

	Seabed profile (along proposed pipeline route)		Minor sub-seabed reflector
	Seabed devoid of undisturbed recently deposited sediment		Fault with direction of throw (dashed where unclear)
	Major sub-seabed reflector		Mapped acoustically structureless package

1. FOR LANDFALL DREDGING DETAILS SEE DWG.
05-2719-300-P-0-3011.
2. POST/PRE-LAY TRANSITION.
3. SEE GALSI DETAILED MARINE SURVEY FINAL REPORT (FUGRO
JOB NO. 70502) FOR ALL DMS DATA.
4. EPOXY INTERNAL COATING NOMINAL 0.08MM THICK APPLIED TO
ALL PIPE JOINTS.
5. FOR ANODE AND BUCKLE ARRESTOR DETAILS SEE FEED
OFFSHORE FINAL DESIGN REPORT (DOC. NO. 030-G-3-0477).

GEODETIC DATUM: WGS 84 (ETRF 1989) PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 ELIPSOID: WGS 84 Latitude of Origin : 0° North
 Semi major axis: 6378137.000 False Easting : 500,000 m False Northing : 0 m
 Inverse flattening: 298.2572235630 Scale factor at CM : 0.9996

SCALE:

0 500 1,000 metres
0 1,000 2,000 3,000 feet
1:10,000

04	30.11.09	ISSUED FOR INFORMATION	RO	TK	SL	AFB	
03	30.01.09	RE-ISSUED FOR APPROVAL	RO	TK	SL	AFB	
02	20.01.09	ISSUED FOR APPROVAL	RO	TK	SL	AFB	
01	25.11.08	ISSUED FOR COMMENT	SJS	SL	SL	AFB	
REV	DATE	DESCRIPTION	BY	CHK	ENG	PM	CLIENT



J P KENNY

PROJECT

GAS PIPELINE
ALGERIA TO ITALY VIA SARDINIA

TITLE

ALGERIA TO SARDINIA
FEED ALIGNMENT SHEET 57 OF 57
FROM KP 280 TO 284.822

DRG. No.	05-300-P-0-3086	REV	04
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