



PROJECT TRACK RECORD

Introduction SPT Offshore

We are the leading worldwide EPCI contractor for suction pile foundations and anchors for offshore Renewables and Oil & Gas.

Our scope covers full EPCI or partial scopes such as:

(pre-)FEED studies, detailed design, Suction pile supply,

Suction pile installation services, Transport and offshore installation.

Our projects are subdivided in the following categories:

* Renewables

- Substations and HVDC platforms
- Wind Turbine Generator and Met Mast Foundations
- Anchors for Floating Wind Turbines

* Oil & Gas

- Wellhead and Fixed Platforms
- Subsea Structures
- Moorings for floating facilities and anchors pipeline start-ups

* Decommissioning

Allseas startup pile Lingshui

Projectname: Allseas startup pile Lingshui

Head Client: CNOOC / COOEC

Client SPT: Allseas

Location: South China Sea, Lingshui offshore field

Waterdepth (m): 1560m Soil conditions: Clay

Project properties: Suction pile OD 3.4m x 9.85m

Scope of work: Installation verification, supply of suction start-up

pile and suction equipment and provision of suction

services.

SPT Achievements: Pile was successfully multiple times installed and

retrieved with the SPT deepwater suction pump SAPS-003 operated by a working class ROV.



YangXi Shapa SPF

Client: Guangzhou Salvage

Year completed: 2020

Location South China Sea

Scope of work: • Project Management and Installation Engineering

Review and verification of SP Detailed DesignSupply of SAPS-007 suction equipment

• Offshore preparation and suction execution of 3

Suction Pile Jackets

Project properties: • 3x suction piles of 11.8-13m OD x 10.6-11.3m deep

Jacket weight 1500t3x8MW turbine

Soil conditions: very soft to soft CLAY overlaying dense to very

dense SAND, very soft to soft CLAY overlaying firm to

stiff/very stiff silty CLAY

Water depth: 28 m

SPT achievements: • net suction Installation of suction pile jacket

foundation in 3.25 to 4.5 hrs • verticality within 0.03 deg



Petrofac East Cendor

Client: Muhibbah Engineering (M) Bhd

Year completed: 2020

Location: Offshore Malaysia, Block East Cendor

Scope of work: • Basic and detailed design suction pile foundation

 $\bullet \, T\&I \, engineering$

• Transportation of jacket and boat-landing

 $\bullet\ {\it Offshore\ installation\ of\ jacket\ and\ boat-landing}$

Project properties: \cdot 2x suction piles of 7m OD x 8m deep

• Jacket weight 1,200t

Soil conditions: Firm to stiff clay

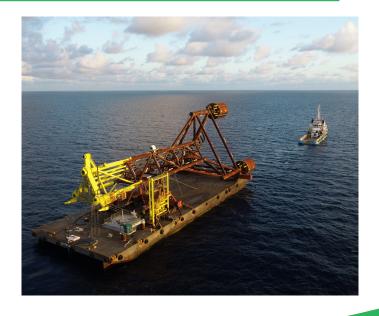
Water depth: 64 m

SPT achievements: • Jacket verticality within 0.1 degrees

• Offshore pump installation (mitigation to COVID-

restrictions)

• Successful installation of Jacket and Boat-landing



Ophir relocation

Client Redtech Offshore

(for Vestigo Petroleum Sdn Bhd)

Year completed

Location

From Ophir (Block OM-315) to Jitang field,

Malaysia.

Scope of work

• Design and engineering for removal, transport and installation.

Removal of WHP at Ophir location .

Transit from Ophir to Jitang location (60 NM).

Installation of WHP at Jitang location.

Project properties •

3x suction piles of 6m x 14m deep.

WHP weight 1400 t (topsides and jacket).

Soil conditions

Very soft to stiff clay.

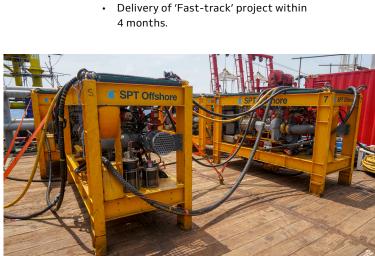
Water depth

• 74m (after local seabed excavation). SPT achievements • One-piece relocation of WHP completed in

only 3 days.

• Platform installed within tolerances

(0.03 degrees vertical).







Suction Pile Cluster

Client Chinese contractor

Year completed 2019

Location South China Sea

Scope of work

· Design, supply and installation of suction pile cluster pile, design and supply of project specific pump equipment, offshore suction services.

Project properties • 2x 120t (dry weight) steel structure.

Soil conditions Soft clay. Water depth 1200 m

SPT achievements • On time delivery of 2 suction cluster piles.

• Succesful suction installation operation.



Changhua offshore pile test

Per Aarsleff Client Year completed 2019

Offshore Taiwan Location

• Design and engineering, supply of project specific Scope of work pump equipment, offshore suction services.

Installation and removal of Pile Guide Frame with Project properties •

suction piles (2 locations).

Soil conditions Sandy soils laminated with silt/clay.

Water depth 40m

SPT achievements • Delivery of srface controlled pump system.

Average of only 5 hours per installation or

removal.

Verticality of PGF well controlled via suction pumps.



Mooring piles Liu Hua

COOEC (China Offshore Oil Engineering Co.)

Year completed

2019 (LOT1)

Location

Liu Hua field, 250 km southeast of Hong Kong

in the South China Sea, China.

Scope of work Project Management and Installation Engineering.

Review and verification of Mooring Piles

Detailed Design.

Offshore preparation and suction execution

with SAPS-008.

Project properties • 9x suction mooring piles of 5.5m OD x 15.9m deep

Soil conditions

Firm olive grey silty CLAY overlaying with approx. 2m soft to very soft grey silty CLAY.

Water depth

· 420m.

SPT achievements • Successfully installed all Mooring Piles within 7 days. (For the individual mooring piles it took only 2.5 hours to reach the required penetration depth

of 16m).



Seagreen test

Client Seagreen Wind Energy Ltd (SWELL)

Year completed

Location

Seagreen Alpha and Bravo Offshore Wind Sites, UK in Firth of Forth off the Scottish East coast.

Scope of work

- · Project Management.
- Geotechnical and Installation Engineering
- T&I scope for a full scale suction bucket installation trials.
- Issue of Geotechnical factual and interpretative Trail Campaign As-Built reports.

Project properties •

9.5m OD x 7.8m deep SP Test Bucket.

Soil conditions

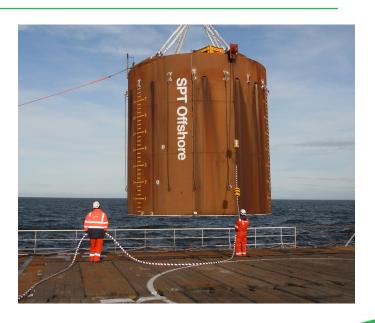
Silty fine to medium SAND with subordinate silty CLAY and dense to very dense SAND, and extremely high strength sandy silty CLAY

Water depth

• 40-60m.

SPT achievements •

Successfully installed a test bucket at 29 no. test locations including 3 cycling tests and 2 landing on Seabed Tests within 21 days.



Allseas Noble Leviathan

Allseas Year completed 2019

Location Offshore mediterrian

Scope of work Project management and preparation of

> installation engineering document for 2 startup piles. Provison of start-up pile and suction

installation services.

OD 3.4m x 9.85m and OD 6m x 6.75m. Project properties •

Start -up forces maximum 45T.

Soil conditions Soft clays. Water depth 1650m

SPT achievements • Two sucion piles installed in January 2018 from

> the Allseas vessel Audacia with the SAPS-003 and removed a year later in January 2019 with the

same spread again.



Summit FSRT

Geocean Year completed

Location Offshore Bangladesh

Scope of work Review installation documents and suction

installation services for 8 Mooring piles,

one PLEM and one Landingpad.

Project properties • Mooring piles: OD 9m x 9.5/11m.

PLEM: OD 7.5m x 8m. PAD: OD 6.35m x 5m.

Soil conditions Overconsolidated clayey soils with an

overlaying sand layer.

Water depth 33m

SPT achievements • All suction piles installed to target

penetration within 3.5 hrs with the

SAPS-007 suction spread.



Moheskhali Floating LNG

Per Aarsleff Client Year completed 2019

Location Offshore Taiwan

Scope of work • Design and engineering, supply of project specific pump equipment, offshore suction services.

Installation and removal of Pile Guide Frame with Project properties •

suction piles (2 locations).

Soil conditions Sandy soils laminated with silt/clay.

Water depth

SPT achievements •

Delivery of srface controlled pump system.

Average of only 5 hours per installation or

removal.

· Verticality of PGF well controlled via suction

pumps.



Aberdeen Offshore Windfarm

Boskalis Offshore

2018 Year completed

UK North Sea Location

Scope of work

- Detailed design of 4 different suction pile jacket foundations.
- Basic design of 2 different suction pile jackets.
- Installation of 11 suction pile jacket

foundations. Project properties • 3x suction piles of 9.5m x 7.5m deep.

Jacket weight 1350t.

9x 8.4 MW and 2x 8.8 MW Vestas WTG.

Soil conditions

loose to very dense sand overlaying soft to very stiff clay overlaying bedrock.

Water depth

19m to 32m.

SPT achievements •

- Installation of suction bucket jacket foundation in 55 minutes to 3 hours.
- Average on-site installation time of 15 hours.
- Verticality 0.01 deg.







Dogger Bank Met Mast Removal

Ardent Global Client

Year completed

Location UK Sector North Sea Dogger Bank

Scope of work

- Engineering and subsea services for removal of two mono bucket met masts.
- Detailed design and fabrication of mono bucket Interface frame.

2x mono buckets, each 15m OD x7m deep. Project properties •

mono buckets weigth 370t each.

Soil conditions Sand (East) and clay (West).

Water depth

SPT achievements •

- Design & fabrication custom interface frame.
- High capacity pumps proven to be compatible for alternative suction pile interfaces.
- Pressure-controlled operations with 0.1 bar accuracy by the SPT pumps.
- · After 4 years of service life, each bucket swiftly pressed out of seabed in only 3.5 hours.



Ophir Wellhead Platform

Client Redtech Offshore (for Vestigo Petroleum)

Year completed 201

Location Block PM-315, Malaysia

Scope of work

- Basic and detailed design suction pile foundation.
- Basic design of jacket.
- · T&I engineering.
- Transportation of jacket and topsides from Port Klang to PM-315 site.
- Offshore installation of jacket and topsides.

Project properties •

- 3 x suction piles of 6m OD x 14m deep.
- Topsides weight 350t.
- Jacket weight 1,100t.

Soil conditions

Very soft to stiff clay.

Water depth

73m.

SPT achievements •

- Complete offshore installation campaign within only 3 days.
- · Jacket installation within 24 hours.
- Jacket vertically within 0.2 degrees.
- Succesfull project execution within schedule and budget.







Statoil Dudgeon Substation

Client SLP Sembmarine

Year completed 2016

Location UK North Sea

Scope of work

- Detailed design suction pile foundation.
- Fabrication of suction pile foundation.
- Installation of suction pile foundation.

Project properties •

- 4x suction piles of 9m OD x 6m deep.
- Jacket weight 900t.
- Topsides weight 2,000t.

Soil conditions

Dense sand to stiff clay.

Water depth

• 23m

SPT achievements •

- Installation of suction pile foundation in 2.5 hours.
- Verticality of 0.01 deg.



Aberdeen OWF suction bucket test

Boskalis Offshore Ltd.

Year completed

2016

Location

Aberdeen Offshore Wind Farm, Schotland

Scope of work

Phase 1: small scale bucket tests

- Convert SPT's start-up pile into a Small Scale Bucket (SSB).
- Add pressure sensors along the SSB shaft and water injection system at the pile tip.
- · Perform suction installation and retrieval tests on seven (7) WTG locations.
- Analyze results to feed into suction bucket jacket foundation design.

Phase 2: full scale bucket tests

- Design and fabricate a full scale bucket (FSB) similar to the intendend WTG foundations.
- · Add pressure sensors along the FSB shaft and waterinjection system at the pile tip.
- · Perform suction installation and retrieval tests on eight (8) WTG locations.
- Analyze results to de-risk the suction bucket jacket foundation installation.

Project properties Phase 1:

• SAPS-003 remotely operated hydraulic suction pump unit and lifting tool.

Phase 2:

SAPS-007 remotely operated electrical suction pump unit

Soil conditions

Sand and clay.

Water depth

21 - 35m SPT achievements • Modification of DNV correlation factors for

in-situ soil conditions.

• Confirm applicability of mitigating measures.





PEMEX Ayatsil PLEM

Swiber Client Year completed 2016

Location Gulf of Mexico

Scope of work

• Installation of the suction pile foundation.

Project properties • 4x suction piles of 4.5m OD x 4.5m deep.

• Structure weight of 170t.

Soil conditions

· Medium dense sand and soft clay.

Water depth

• 110m

SPT achievements • Suction pile foundation installation in only 45

minutes



PEMEX Bridge Support Structure

Nuvoil Year completed 2016

Location Sonda de Campeche, Gulf of Mexico

Scope of work Project properties •

• Installation suction pile foundation. 3x suction piles of 5m OD x 15.3m deep.

Jacket weight 300t.

Bridge weight 300t.

Soil conditions

Soft clay and medium dense sand.

Water depth 43m

SPT achievements • Installation of suction pile foundation in

2 hours.

• Verticality of 0.01 deg.



Allseas Pioneering Spirit Test Frame

Allseas Year completed 2016

Location K13, Dutch North Sea

Scope of work

• Detailed design suction pile foundation.

Fabrication suction pile foundation.

Installation suction pile foundation.

Project properties • 4x suction piles 9m OD x 8.5m deep.

Jacket weight 1,600t.

· Ballast tanks, including ballast water

weight 4,300t.

Soil conditions

· Dense to very dense sand.

Water depth • 27m



Shell Malikai

Client Technip Year completed 2015

Location Sabah, Malaysia

Scope of work

· Detailed design and fabrication of suction pile

interface and hatches.

• Installation of 14 no. turning bollard suction piles.

• Installation of 2 no. pipeline restraint suction piles.

Project properties • 14x turning bollard suction piles of 1.5m OD x 13m deep.

2x pipeline restraint suction piles 5m OD x 15.5m

deep.

Soil conditions Soft clay Water depth 500m

SPT achievements •

Average complete suction pile installation of

only 5 hours per pile.



BP Foinhaven

Client Subsea7 2015 Year completed UK North Sea Location

· Installation and removal services. Scope of work

• Rental of suction pile.

1x suction pile 3.4m OD x 6.25m deep. Project properties •

Soil conditions Very soft to firm clay.

Water depth • 500m



Shell BC-10

Client Allseas Year completed 2015

Location Campos Basin, Brasil

Scope of work · Suction pile installation and removal engineering.

Installation and removal services.

1x suction pile 6m OD x 6.8m deep. Project properties •

Soil conditions Soft clay. Water depth • 1,675m



Support suction Piles for PGN Repair

DCN Client Year completed

Location Indonesia, offshore Jakarta

Scope of work Management and installation engineering.

Detailed design of four (4) suction pile

foundations.

Suction installation services.

Project properties • 5 x suction piles of 1.4 m OD x 6m deep;

1 test pile and 4 foundation piles.

Soil conditions Soft clay. Water depth 25 m

SPT achievements • Installation of test pile for verification of soil

characteristics.

• Installation and removal of four (4)

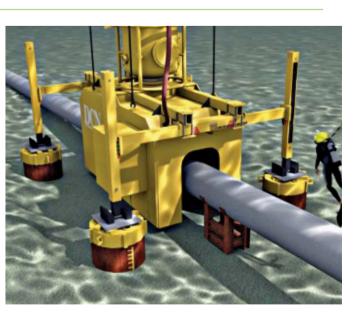
foundation piles.

Each foundation pile installed in less than

15 minutes.

Certificate of Great Achievement by PGN Project achievement •

Indonesia.



Wintershall L6-B Minimum Facility

Client Scaldis Salvage and Marine Contractors NV

Year completed 2014

Location North Sea Dutch sector block L6

Scope of work • Concept design of platform transport &

installation.

Design and engineering of the suction piles.

Installation of suction piles.

Project properties • 3x suction piles of 10m OD x 10m deep.

Topsides weight 100t.

• Jacket including suction piles weight 1,000t.

Soil conditions •

• Layered sandy & silty soils with clay bands.

Water depth • 35m

SPT achievements • Mobilization, installation and demobilization in

only three days.

Verticality within 0.01 deg.

• First of its kind one piece transportation and

installation.



DONG Borkum Riffgrund Wind Turbine

Client DONG Year completed 2014

Location German North Sea

Scope of work • Installation Engineering.

Offshore installation of suction bucket jacket.

Project properties • 3x suction piles of 8m OD x 8m deep.

Jacket 600t.

3.6 MW SIEMENS Wind Turbine.

Soil conditions

Dense Sands.

25m

Water depth

SPT achievements • First wind turbine jacket founded on suction piles

installed worldwide.

· Approval of German BSH.

• Successful installation through anti-scour

preinstalled filter layer.



PEMEX Line 3 & 11

Client Swiber Year completed 2014

Location Gulf of Mexico

Scope of work • Installation and removal engineering.

Rental of start-up suction pile.Installation and removal services.

Project properties • 1x suction pile 3.4m OD x 9m deep.

Soil conditions • Very soft to soft clays.

Water depth • 120m



Statoil Asgard Field Development

Allseas Client Year completed 2013

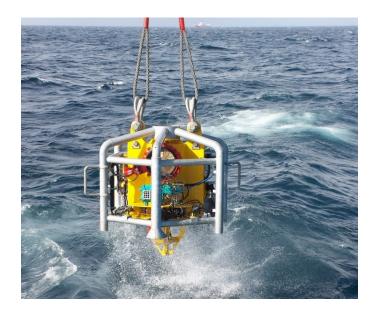
Location Norwegian North Sea

Scope of work • Installation and removal engineering.

> Suction pile design verification. · Installation and removal services.

Project properties • 1x suction pile 6m OD x 6.8m deep.

Soil conditions Silty clay. Water depth 300m



Gaz de France O13-A Platform

Seaway Heavy Lifting

Year completed 2013

Location North Sea, Dutch Sector

Scope of work • Detailed design suction pile foundation.

Installation of suction pile foundation.

Project properties • 4x suction piles of 7.0m x 7.4m deep.

Jacket weight 1300t. Topsides weight 1700.

Soil conditions Dense to very dense sand.

Water depth 20m

SPT achievements • Installation of suction bucket foundation in 2.5

hours.

· Vertically within 0.65 deg.

• Installed over an existing well.



Global Tech 1 Transformer Substation

Keppel Verolme Client

Year completed 2013

Location North Sea German Bight

Scope of work • Preparation and review of platform T&I

procedures.

Geotechnical design suction piles.

• Installation engineering for installation of suction

piles.

Provision of construction crew on vessel.

Installation of suction piles.

Project properties • 4 x suction piles of 11m OD x 9.5m deep.

Topsides weight 4,850t.

Substructure including suction piles weight

3,900t.

Dense sands. Soil conditions

Water depth

40m

SPT achievements • First suction pile foundation in the German sector

approved by BSH.



Wintershall Multi Purpose Platform (3x)

Client Wintershall

Year completed 2013, 2001, 2000, 1997

Location North Sea Dutch sector P2 and P6

Scope of work • Installation of the suction pile foundations for 3

MPPs.

Relocation of 3 MPPs in 2000, 2001, 2013.

Project properties • 4x suction piles of 9m OD x 9m deep.

Topsides weight of 2,200t.

• Substructure including suction pile weight 1,000t.

Soil conditions • Sandy and occasional clayey soils.

Water depth • 25m-30m

SPT achievements • All 3 platforms relocated without port call.

Relocation (de-installation and re-installation) of

each platform in only 3 days.



CLP Met Mast

Client COOEC Year completed 2012

Location Hong Kong, South China Sea

Scope of work • Detailed design suction pile foundation.

Installation of SIP1 suction pile foundation.

Project properties • 3x suction piles of 7m OD x 12m deep. Soil conditions • Soft clay and medium dense sand.

Water depth • 30m

SPT achievements • Verticality of the structure within 0.12 deg.

• Installation of suction pile foundation in

1 hour.



EON Huntington FPSO

Client Sevan Marine

Year completed 2012

Location UK Central North Sea

Scope of work · Installation engineering for loadout, handling and

installation of suction pile mooring.

Provision of construction crew on vessel.

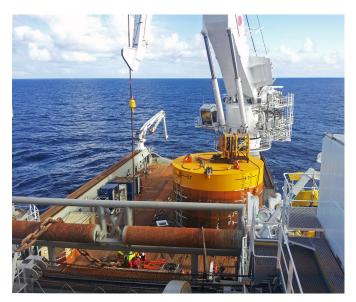
Installation of suction pile.

Project properties • 12x suction pile of 9m OD x 7.5m deep.

250m chain section.

Soil conditions • Stiff clays. Water depth • 90m

SPT achievements • 6 weeks project preparation time.



Noble Hadeira Oil Offloading Buoy

Micoperi Year completed 2012

Mediterranean Location

• Installation engineering for installation of suction Scope of work

Installation of suction piles.

Project properties • 8x suction pile 9m OD x 11.5 - 18.5m deep.

Soil conditions · Soft to medium stiff clays.

Water depth • 80m



Noble Tamar Development

Allseas Marine Contractors

Year completed

Location

Mediterranean

Scope of work • Suction pile installation engineering.

Rental of suction piles.

Installation and removal of suction piles.

2x rental suction piles of 3.4m OD x 12m deep. Project properties •

Suction pile weight 25t each.

Soil conditions · Soft clays. • 1,700m Water depth

SPT achievements • Deepest suction pile installed by SPT Offshore.

• Quick installation in critical vessel time of the

Allseas Audacia.



Athena FPSO

Bibby Offshore Client

Year completed

Location UK Central North Sea

Scope of work · Suction pile installation engineering.

• Suction pile installation services.

Project properties • 5x suction pile 5m OD x 13.5m deep.

• 3x suction pile 6.5m OD x 11m deep.

• 1x suction pile 5m OD x 11m deep.

Soil conditions • Sandy and clayey soils.

Water depth • 140m



Shell Riser Access Tower

ALE Heavylift

Year completed 2011

Location K15 Dutch North Sea

Scope of work • Suction pile installation engineering.

Suction pile installations services.

ROV services.

Positioning services.

Project properties • 4x suction piles 7.5m OD x 7m deep.

Monopod and topsides weight 350mT.

Soil conditions Sands.

Water depth • 30m







Ithaca Energy Jacky

HSM Offshore Client Year completed 2008-2009

Location UK North Sea, Beatrice area

Scope of work • Detailed design suction pile foundation.

• Fabrication of suction piles.

• Installation of SIP1 tripod suction pile foundation.

Project properties • 3x suction piles of 10m OD x 7.5m deep.

• Topsides weight 800t.

Substructure including suction piles weight

1,150t.

Sand with cobbles. Soil conditions

Water depth • 45m

SPT achievements • EPCI schedule of 9 months met.

· Jacket docked over an existing well.



Centrica F3-FA

Heerema Fabrication Group

Year completed 2010

Location Dutch sector North Sea F3-FA field

Scope of work

• Transport from Flushing to F3FA site & offshore installation SIP2 self installing platform.

Detailed design suction piles.

· Fabrication of suction piles.

• Detailed design grillage and seafastening.

· Fabrication of seafastening beams.

· Fabrication of deck cantilever beams.

Marine design and model testing at test basin

MARIN.

Project properties •

4 x suction piles of 15m OD x 13m deep.

Topsides weight 4,500t.

Substructure including suction piles weight

Grillage 600t and seafastening 100t.

Soil conditions

Dense to very dense sands.

Water depth

SPT achievements •

Re-usable concept for short life of field of 7 years.

18 months EPCI contract schedule.

• Offshore installation in only 52 hours.

· Concept insensitive to weather downtime and weight growth.





GFI Bualang Field Development FPSO mooring

EMAS Client 2007-2008 Year completed Location **Gulf of Thailand**

Scope of work

• Design of suction pile cluster.

• Installation of suction pile cluster.

Project properties • 1x suction pile cluster with 3x suction piles of

4.2m OD x 4.5m deep.

300t connection.

Soil conditions

· Soft to stiff clays.

Water depth

• 30m



ENI Rosetta

Client Saipem 2008 Year completed

Location Mediterranean, Egypt

Scope of work · Rental of suction pile installation spread for

installation of foundation of manifold protection

structure.

Project properties • 4x triangular suction compartments of 5m deep x

5m depth x 3.5m height.

Structure weight of 135t.

Soil conditions Soft clays.

Water depth • 100m



Chevron Frade Field Subsea Development

Subsea7 Year completed 2007-2008 Location Brazil

Scope of work

- Detailed design of suction piles for the mooring of subsea risers.
- Fabrication of suction piles in Brazil.
- Installation of suction piles using ultra deepwater suction pump SAPS-003.

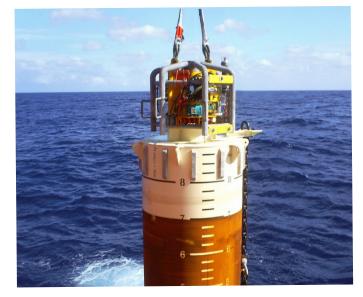
22 suction piles of 3m OD x 6m to 9m deep. Project properties •

Soil conditions Soft clays. Water depth • 1,100m

SPT achievements • Average complete suction pile installation of only

7 hours per pile.

• Full survey and positioning equipment integrated in pump.



British Guyana Bridge Pontoon Mooring

Bosch Rexroth Client

Year completed 2007

Location Berbice River, Guyana

Scope of work · Detailed design of Suction Embedded Anchors

• Fabrication and supply of SEA.

Installation of SEA.

Project properties • 80 no. 100t UHC SEA. Soil conditions Soft to very stiff clays.

Water depth • 3 – 12m



Talisman Malaysia Bunga Raya

Talisman 2006 Year completed Location Malaysia

Scope of work

Design of monopods and suction pile foundations.

Marine design and transport and installation

engineering.

Installation of 2 SIMs.

Project properties •

Suction piles of 7m OD x 8m deep.

Monopod weight 150t.

Topsides weight 1,500t on two monopod.

Soil conditions

Clayey soils.

Water depth

55m

SPT achievements •

Cost efficient and low impact platform extension founded on 2 suction pile based monopods.

• EPCI schedule in 4 months met.

No driving required next to an operational

platform.



PetroCanada de Ruyter Development

Year completed 2006

Location Dutch sector of the North Sea

Scope of work

• Installation of GBS suction skirt foundation.

Installation of cluster suction pile foundation.

Project properties • 4x suction piles of 7.5m OD x 5.8m deep.

• TMLS oil offloading structure weight of 240t.

Soil conditions

Silty sands.

Water depth

25m



Amerada Hess Ceiba Subsea Development

Subsea7 Client Year completed 2003-2006

Location Equatorial Guinea, West Africa

Scope of work

Detailed design of suction pile cluster foundation.

Fabrication and installation of suction pile cluster

foundations.

Project properties •

25x suction pile foundations of 3x suction piles of

1.5m to 2.5m OD x 6m to 8m depth.

Soil conditions

Soft clays

Water depth

700 – 900m.

SPT achievements •

Verticality of all suction pile foundations within

0.5 deg.



Talisman Bunga Raya Subsea Jacket

Talisman Year completed 2003

Location Offshore Malaysia

• Design of suction pile foundation. Scope of work

> Marine design verification. Installation procedures.

Installation of free floating jacket suction pile

foundation.

Project properties • 4x suction pile 8.5m OD x 9m deep.

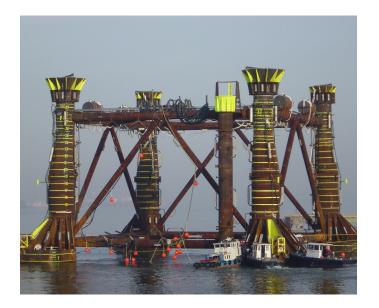
Jacket weight 1,700t.

Soil conditions Firm clays. Water depth 53m

Application of SPT Offshore's patented SPT achievements •

technology 'buoyancy in suction piles', making a

platform wet tow feasible.



ConocoPhillips Calder

Genesis Oil & Gas Consultants

Year completed 2002

Location East Irish Sea, UKCS

Scope of work • Design of suction pile foundation.

Fabrication of 4 suction piles.

Marine design and preparation of transport and

installation procedures.

Transportation and installation of complete SIP2

platform.

Project properties • 4x suction piles of 9m OD x 5.75m length.

• Topsides weight of 700t.

· Substructure including suction pile

weight 1,200t.

Soil conditions · Loose to very dense sands.

Water depth • 30m + 9m tide

SPT achievements • EPCI schedule of 9 months met.

• Installation of suction piles in gravel layered soil.



ConocoPhillips Millom West

Genesis Oil & Gas Consultants Client

Year completed 2000 Location East Irish Sea

Scope of work Suction pile foundation design.

> · Marine design and T&I procedures. · Suction pile installation services.

Project properties • 4x suction piles of 7m OD x 9m deep.

· Topsides weight: 400 mT.

Substructure including suction piles weight:

1,100 mT.

Soil conditions · Loose to very dense sands.

Water depth · 29m



Chevron North Nemba Flare Jacket

Client Subsea7 Year completed 1999

Location West Africa Angola

Scope of work • Design of suction pile foundation.

• Fabrication of suction piles.

• Suction pile installation services.

Project properties • 3x suction pile 5m OD x 5.5m deep.

Jacket weight 650t.

Soil conditions • Soft clays. Water depth • 120m

SPT achievements • Jacket installation in 24 hours, including wet

upending, set down and suction pile installation.

• Verticality of the structure within 0.25 deg.



