

ENVIRONMENT PLAN DOCUMENT SUMMARY

1 COORDINATES OF THE PETROLEUM ACTIVITY

The Vincent Development area is located within production permit WA-28-L (previously exploration permit WA-271-P) approximately 50km north-west of the town of Exmouth, 18.5km north of the Ningaloo Marine Park (Commonwealth Waters) offshore boundary, and 26km north-west of the Muiron Islands Marine Management Area. At the Vincent field, the water depth is approximately 350m.

Table 1 provides the location details of the two production manifolds, 8 production, 1 gas injection and 2 water injection wells.

Table 1: Surface Manifold and Well Co-ordinates

Appraisal Well

Easting	Northing	Latitude	Longitude
196 046 mE	7 628 146 mN	21° 25' 24.368 S	114° 4' 4.644 E

Production Wells

Manifold	Easting	Northing	Latitude	Longitude
A	193 879 mE	7 626 308 mN	21° 26' 22.751 S	114° 02' 48.265 E
Well	Easting	Northing	Latitude	Longitude
VNA-H1	193 882.45 mE	7 626 290.94 mN	21° 26' 23.307 S	114° 02' 48.374 E
VNA-H2	193 861.94 mE	7 626 311.45 mN	21° 26' 22.628 S	114° 02' 47.675 E
VNA-H3	193 875.55 mE	7 626 325.06 mN	21° 26' 22.194 S	114° 02' 48.157 E
VNA-H4	193 896.06 mE	7 626 304.55 mN	21° 26' 22.873 S	114° 02' 48.855 E

Manifold	Easting	Northing	Latitude	Longitude
B	192 445 mE	7 626 927 mN	21° 26' 1.763 S	114° 1' 58.919 E
Well	Easting	Northing	Latitude	Longitude
VNB-H1	192 452 mE	7 626 911 mN	21° 26' 2.29 S	114° 1' 59.15 E
VNB-H2	192 427 mE	7 626 925 mN	21° 26' 1.82 S	114° 1' 58.29 E
VNB-H3	192 437 mE	7 626 942 mN	21° 26' 1.27 S	114° 1' 58.65 E
VNB-H4	192 462 mE	7 626 928 mN	21° 26' 1.74 S	114° 1' 59.51 E

It should be noted that the surface locations for the production wells are provisional and will be subject to minor changes based on the results obtained from drilling of the appraisal well.

Gas Injection Well

Easting	Northing	Latitude	Longitude
194 660 mE	7 628 810 mN	21° 25' 1.955 S	114° 3' 16.994 E

Water Injection Wells

Well	Easting	Northing	Latitude	Longitude
VNC-W1	193 502 mE	7 624 166 mN	21° 27' 32.098 S	114° 2' 33.781 E
VNC-W2	193 467.2 mE	7 624 129.8 mN	21° 27' 33.252 S	114° 2' 32.549 E

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2 THE RECEIVING ENVIRONMENT

The seabed in the Vincent Development area is predominantly flat and featureless, sloping gently from south-east to north-west. The benthic biota at the location are characterised by a sparse seabed community, including larger species living on the seabed (mainly urchins, seastars and crustaceans) and smaller burrowing invertebrate species living within the seabed sediments. Resources of ecological significance in the surrounding surface waters typically include mobile species mostly occurring in low numbers and widely dispersed. The closest sensitive environmental resource from the offshore location is the Ningaloo Marine Park (Commonwealth Waters) which is located approximately 18.5km from the Development location. Humpback whales migrate seasonally through the region during June to December, but the majority of whales move well inshore of the development location.

3 DESCRIPTION OF THE ACTION

Woodside Energy Limited (Woodside) is proposing to conduct phased subsea construction and installation activities for the Vincent Development commencing in late August 2007 for a period of approximately six months.

The construction and installation activities will be undertaken by Acergy Australia Pty Ltd (Acergy) and Technip Oceania Pty Ltd (TOPL) and includes:

Acergy

- Installation of nine leg mooring system, consisting of:
 - 21 Tonne Stevpris Drag anchors;
 - 122mm anchor chain;
 - Sheaved Spiral Strand Wire; and
 - Mid Line Buoyancy Elements (MLBE).
- Hook-up of 650Tonne Submerged Turret Production buoy (STP);
- Installation of two production manifolds; and
- Installation of one Framo Dual Pump Station (FDS) consisting of two multi-phase pumps.

TOPL

- Supply and installation of Flexible Flowlines and Riser System;
- Supply and installation of Electrical Hydraulic Umbilicals (EHU);
- Supply and installation of Rigid Spool pieces with EHU jumpers;
- Installation of dedicated High Voltage (HV) umbilical; and
- Pre-commissioning and testing of risers and flowlines.

Several vessels will be used to conduct the work including two construction vessels (one for Acergy and one for TOPL), two Heavy Lift Vessels (HLV) (one for Acergy and one for TOPL), and associated support vessels. The HLVs will be required to anchor in the sheltered waters of the Exmouth Gulf and the construction vessels will be required to transit from the field to the Gulf of Exmouth to collect equipment.

4 MAJOR ENVIRONMENTAL HAZARDS AND CONTROLS

The main risks to the environment during construction and installation activities are associated with:

- discharges of chemically treated water to the marine environment;
- possibility of an accidental oil spill; and
- the introduction of foreign organisms via vessel ballast water.

To manage these risks effective controls will be implemented as detailed in the Environment Plan. Performance objectives, standards and completion criteria are identified to assess the performance and implementation of the Environment Plan in relation to the description and assessment of environmental risks and effects. The objectives, standards and criteria developed for the subsea construction and installation activities for Vincent Development are shown in Table 2.

Due to the careful management of these risks, the low sensitivity of the immediate surrounding environment, and distance from shallow waters, the risks are tolerable and manageable.

Table 2: Performance Objectives, Standards and Criteria

Objectives	Standards	Criteria
Minimise significant disturbance to the seabed and benthic habitats.	<ul style="list-style-type: none"> Woodside Environmental Policy and Management System Vessel Anchoring Procedures TOPL and Acergy Installation Procedures 	<ul style="list-style-type: none"> Records of all items lost overboard. No deviation from vessel anchoring procedures. Minimum disturbance to seabed outside the subsea equipment footprint. All project personnel briefed on environmental sensitivities, management procedures, and commitments detailed in the Environment Plan, and attendance records signed.
Minimise disruption to transient marine life.	<ul style="list-style-type: none"> Woodside Environmental Policy and Management System Cetacean Interaction Permit Conditions EPBC Act Regulation 8 (Interacting with Cetaceans and Whale Watching) Environment Australia Whale and Dolphin Sighting Report TOPL and Acergy Project Environment Plan 	<ul style="list-style-type: none"> Compliance with EPBC Act Regulation 8 – Interacting with Cetaceans and Whale Watching. Whale sighting reports completed and returned to Vincent Environmental Adviser. All project personnel briefed on environmental sensitivities, management procedures and commitments detailed in the Environment Plan.
Minimise significant impact of chemically treated water discharges on the environment.	<ul style="list-style-type: none"> Woodside Environmental Policy TOPL and Acergy Pre-Commissioning Procedures 	<ul style="list-style-type: none"> Compliance with Pre-commissioning Procedures. All equipment inspected and operating correctly. Reporting of volumes, concentrations and types of chemically treated water discharged. All project personnel briefed on environmental sensitivities, management procedures and commitments detailed in the Environment Plan.
Minimise impact of routine waste discharges on the marine environment.	<ul style="list-style-type: none"> Woodside Environmental Policy and Management System MARPOL 73/78 Annex IV TOPL and Acergy Project Environment Plan TOPL and Acergy Waste Management Plan Vessels Management Systems 	<ul style="list-style-type: none"> Sewage treatment systems (comminuter and grinder) are fully operational prior to commencement of operations. MARPOL waste management requirements followed. Vessel Waste Log Form completed, indicating quantities of sewage and food waste discharged overboard. All project personnel and crew are briefed on environmental sensitivities, management procedures and commitments detailed in the Environment Plan.
Minimise potential impacts of solid and hazardous wastes on the environment.	<ul style="list-style-type: none"> Woodside Environmental Policy and Management System Woodside’s Environmental Standards – Waste (Hazardous and Non-Hazardous) MARPOL 73/78 Annex IV TOPL and Acergy Project Environment Plans TOPL and Acergy Waste Management Plans 	<ul style="list-style-type: none"> Segregation of solid and hazardous wastes in accordance with the TOPL and Acergy Waste Management Plans (WMP). TOPL and Acergy to conduct Compliance Audits of their WMP. Procedures comply with MARPOL requirements. MSDS Sheets are readily available. A vessel Waste Log Form is kept detailing quantities of wastes transported ashore.

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Objectives	Standards	Criteria
	<ul style="list-style-type: none"> Vessels Management System 	<ul style="list-style-type: none"> All project personnel and crew briefed on environmental sensitivities, management procedures and commitments detailed in the Environment Plan.
<p>Minimise occurrence and effects of hydrocarbon and chemical spills into the marine environment.</p>	<ul style="list-style-type: none"> Woodside Environmental Policy and Management System Woodside Environmental Standards MARPOL 73/78 Annex I TOPL and Acergy Project Environment Plans Woodside Carnarvon Basin Oil Spill Contingency Plan (ERP 3250) Vessel SOPEP (Shipboard Oil Pollution Emergency Plan) 	<ul style="list-style-type: none"> Procedures comply with MARPOL 73/78 requirements. MARPOL Oil Record Book and SOPEP kept up to date. Refuelling procedures in place and followed. Fuel spill contingency procedures are in place and operational. Sufficient spill response equipment on board. Appropriate actions are taken to avoid pollution. Incident Reports completed for all spills >1 litre (contained and uncontained) within required timeframes. Note this is internal reporting for minor contained spills. Approval is sought from the Designated Authority prior to dispersant applications. Any spills >80 litres are reported to the Designated Authority and Department of Environment and Water Resources within 2 hours. All project personnel and crew are briefed on environmental sensitivities, management procedures and commitments detailed in the Environment Plan.
<p>Minimise interference with recreational vessels, commercial fishing, and shipping.</p>	<ul style="list-style-type: none"> Woodside Management System and External Affairs Issues Management Process P(SL)A 1967, Section 124 AMSA requirements 	<ul style="list-style-type: none"> Consultation with local fishermen, fishing industry groups, local tourist operators and the general community. Notification of AMSA via the Rescue Co-ordination Centre (RCC). Issuing of standard AusCoast warnings to shipping via RCC. Radio contact with approaching vessels. Standard Marine notices broadcast. Functional navigational beacons and lighting in place and in use. Briefing of all project personnel and crew on environmental sensitivities, management procedures and commitments detailed in the Environment Plan. No complaints from other users of the area.
<p>Minimise risk of introduction of marine and land pests.</p>	<ul style="list-style-type: none"> Woodside, TOPL and Acergy Environment Plans TOPL and Acergy Waste Management Plans (WMPs) AQIS Ballast Water Management requirements AQIS Quarantine Regulations 	<ul style="list-style-type: none"> Compliance with AQIS Ballast Water Management requirements for vessels <12nm from the shore. Compliance with AQIS quarantine Regulations regarding waste for on shore disposal for vessels <12nm from shore.

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5 SUMMARY OF THE MANAGEMENT APPROACH

The management approach follows Woodside's Management System (in line with an ISO-14001 management system). A systematic approach is taken through the identification and assessment of hazards and risk, the establishment of objectives, performance standards, criteria and the development of appropriate documentation.

6 CONSULTATION

The Vincent Development was referred to the Department of the Environment and Heritage (DEH – now the Department of the Environment and Water Resources (DEW)) on 2 May 2005 under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). A Draft Environmental Impact Statement (Draft EIS) was prepared and released for public consultation on 7 November 2005 for a period of six weeks. A Supplement to the Draft EIS was then prepared to address the issues raised in the three submissions received. The Supplement was approved for public release on 2 March 2006. The Draft EIS and the Supplement together form the EIS submitted to the Commonwealth Minister for the Environment and Heritage for final assessment and approval. The EIS was approved by the Minister on 2 June 2006, with a total of nine conditions of approval.

One of these conditions (Condition 1b) required the submission of a plan for construction and installation activities. This plan was required to include details of the following:

- Design and construction that allow for the decommissioning of all structures and components above the sea floor;
- Details of the final selection of well locations, anchor type and placements, and flowline paths;
- Hydrotest fluid type, handling and disposal;
- Ballast water management for international construction vessels arriving in Australia;
- Cetacean interaction procedures for supply vessels and aircraft that are consistent with Part 8 of the Environmental Protection and Biodiversity Conservation Regulations 2000; and
- Cetacean and whale shark sightings reporting.

The Vincent Project Subsea Construction and Installation Environment Plan has been prepared in accordance with these and other State and Commonwealth regulatory requirements and guidelines.

Consultation during planning and preparation for the Vincent Development Project installation and construction activities are managed through Woodside's Corporate Affairs Team management process. This process involves discussions with key stakeholders/contractors (i.e. via Community Reference Group Meetings in Exmouth and Perth) and communications through correspondence, Woodside's Greater Enfield Area Update newsletter, an advertisement in the Northern Guardian newspaper prior to the arrival of vessels in the field/Exmouth Gulf and advice to CRG members at the start of the campaign.

Woodside have a nominated External Affairs focal point for Woodside activities in the Vincent Development area.

7 CONTACT DETAILS

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