



Meeting Minutes
SCG – Perth
Meeting # 4
28 August 2008

Apache Energy Limited (Apache), on behalf of the Van Gogh joint venture participants, is proposing to develop an oilfield, known as Van Gogh, off the Exmouth coast and an onshore gas processing hub known as Devil Creek Development Project (DCDP), approximately 40 km southwest of Dampier, in northern Western Australia.

Apache has chosen to combine the Perth Stakeholder Consultation Group (SCG) meetings for the Van Gogh and Devil Creek Projects. Minutes from the combined SCG meeting are detailed below.

Meeting Details

Meeting location: Art Gallery of WA, Perth
Time: 11.00am – 1pm, including a light lunch.

Agenda

The meeting agenda was as follows:

1.	Welcome and introductions	Myles Hyams
2.	Devil Creek Development Project update	Roger Lewis
3.	Devil Creek Development Project Environmental Approvals update	Libby Howitt
4.	Van Gogh Development Project update	Myles Hyams
5.	Update of Van Gogh FPSO & other facilities	Michael Campbell
6.	Presentation from Acergy regarding Acergy's involvement within the Van Gogh Project – Vessel & Gulf	Kevin McKendry
7.	Question and answer session	
8.	Lunch	

Attendees

The attendees at the meeting are listed in the table below.

#	Name	Company/Organisation	Title
Apache			
	Myles Hyams	Apache Energy	Environmental Manager
	Libby Howitt	Apache Energy	Senior Environmental Scientist
	David Parker	Apache Energy	Government and Public Affairs Manager
	Michael Campbell	Apache Energy	Van Gogh Project Manager
	Roger Lewis	Apache Energy	Devil Creek Project Manager
	HK Chiam	Apache Energy	Offshore Installation Manager

#	Name	Company/Organisation	Title
Government			
1	Zoe Jones	Department of Industry and Resources (Petroleum Environment Branch)	Senior Environmental Assessor
2	Tania Jackson	Department of Environment & Conservation	Project Coordinator - Environmental Impact Assessment & Industry Management
3	Kevin Crane	Department of Environment and Conservation	A/Senior Marine Conservation Officer
4	Rebecca Ince	Department of Planning Infrastructure	Research Officer
5	Rob Tregonning	Department of Fisheries (Fish Habitat Protection Program)	Snr Policy Officer, Environmental Assessment
Non-Government Organisations			
6	Richard Ellis	Australian Petroleum Production and Exploration Association (APPEA)	Director, Government Affairs (WA)
7	Kevin McKendry	Acergy	Project Manager
8	Lachlan McKelvie	Prosafe	HSE Manager – Corporate
9	James Hogan	Prosafe	HSEQA Advisor
10	Ian McDonald	Prosafe	Project Operations Manager

Minutes

Roger Lewis presented a brief overview of the Devil Creek Development Project for 30 minutes. Libby Howitt presented Devil Creek Development Project Environmental Approvals update for 30 minutes. Copies of the Devil Creek Development Project Draft PER were available for the SCG members. Myles Hyams presented a Van Gogh Project update. Michael Campbell presented an update of the Van Gogh FPSO and other facilities for about 15 minutes. Kevin McKendry presented an update on Acergy's construction methodology for the Van Gogh Project.

The following minutes are a record of questions and answers recorded during and after the presentations.

Name	Comment/question	Action
Richard	What's the life of the DCDP design?	
Roger	Twenty five years but forecast 15 -20 years.	
Kevin Crane	In regards to HDD, what drilling fluid is going to be used?	
Libby	Bentonite. Other options have been looked at. Three cases presented in the DCDP PER. The objective is to reduce the volume being discharged and delay the breakout.	
Richard	The government often holds up Apache as an example of the company doing the right thing in terms of local content. Have you got a rough idea what it comprises?	
Roger	Major local contracts awarded for DCDP include – Onshore Package, Onshore Pipeline and Gas Plant (Clough), Accommodation facilities (Nomad), Road Upgrade Package (Ertech). Offshore Package comprising Offshore Pipeline Installation, HDD and Platform Installation (Clough). Wellhead Platform Design (Worley Parsons) and Fabrication (Ausclad).	

Name	Comment/question	Action
	Ausclad have also constructed the subsea manifolds and riser bases for Van Gogh.	
Richard	What's the land area for the gas plant?	
Roger	120 ha gas plant site (total area).	
Richard	Is lease exclusive to Apache Energy?	
Myles	Lease on gas plant site not yet awarded. Awaiting environmental approvals. Intention is for the entire 120 ha to be for Apache's use.	
Richard	In regards to gas specifications, was the CO ₂ content of the gas an issue for the existing DBNG gas specifications?	
Myles	Not an issue, CO ₂ content of the Reindeer gas less than 4% CO ₂ and suitable for export via the DBNG line to the domestic market.	
Richard	What happens to the Mercury?	
Roger	The DBNG gas specification requires any traces of mercury to be removed from the gas. In the processing of the gas in the DCDP gas plant, any contained mercury gets absorbed by the mercury guard beds. The guard beds are changed out once every five years with the absorbent material suitable for disposal to a Class IV landfill site.	
Richard	What's the composition of the produced formation water? Is it useable in another way?	
Myles	Contains salt water and traces of hydrocarbons. Limited opportunity for reuse. Further treatment for reuse would result in no net environmental benefit (would be energy intensive). Once operational plant does not consume large volumes of water. Demand is larger during the initial construction phase. Will pump saline groundwater and treat it to potable quality using reverse osmosis water purifiers.	
Michael	What's a Chenopod?	
Libby	Salt bush vegetation that occurs on and in the vicinity of the DCDP site.	
Richard	How is the campers ground at Gnoorea point managed and what are the current sewerage facilities at Gnoorea Point?	
Libby	A Warden is in place (camps at the location) and a sewerage collection point exists. People sometimes stay at this location for up to 3 months.	
Zoe	The evaporation ponds, are they likely to form sludges that may trap fauna?	
Libby	Apache will have equipment designed to clean the ponds should it be required. When ponds are not containing water, they dry out and are not expected to form sludges that may trap fauna like say tailings dams.	
Richard	Are you required to refer a project like this to the Commonwealth?	
Myles	DCDP was referred to the Department of the Environment, Water, Heritage and the Arts (DEWHA) under the Commonwealth's EPBC Act. However no matters of national environmental significance were associated with the project and	

Name	Comment/question	Action
	it was assessed by DEWHA as not "a controlled action", with manner specific conditions assigned to it (not required to undergo any formal environmental assessment under the EPBC Act). These conditions have been addressed in the DCDP Public Environment Report	
Richard	Area has been heavily grazed, is native vegetation an issue?	
Libby	Native vegetation clearing for the gas plant comes under the environmental assessment process within the PER. Don't have to apply for a separate permit under the Native Vegetation Regulations. Road upgrade & accommodation areas associated with the project did require Apache to submit for a permit to disturb native vegetation, which has been approved by the Department of Environment and Conservation (DEC).	
Richard	DEC are looking at a network of marine reserves, are they near Karratha (in Pilbara area)?	
Libby	The proposed onshore gas plant pipeline passes through a proposed conservation reserve designated as a marine management area (Regnard MMA) that as yet, has not been gazetted. The Regnard MMA is part of a network of conservation reserves proposed for this area of the coastline that includes the Dampier Archipelago Marine Park to the north east and the Great Sandy Islands and Mary Anne Passage Islands to the south.	
Richard	Coastal marine habitat map, is there information in the PER on this?	
Libby	Yes, the DCDP PER provides further information on the surrounding marine habitat.	
Kevin Crane	HDD, what's the plan with timing and duration?	
Roger	Clough Offshore is tendering this work at the moment. Proposed to commence around March 09 and last for approximately six months.	
Zoe	DoIR will coordinate and progress construction and operational approvals for the Van Gogh development.	
Richard	What's the depth of the water at the Van Gogh site?	
Michael	350m.	
Richard	How much is it to run the Toisa Proteus vessel on a daily basis?	
Kevin McKendry	Half a million dollars.	