

**PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA**

<p><b>CAPE TOWN INFORMATION-SHARING MEETING</b></p>	Date: 11 November 2013
	Time: 17h30
	Venue: Granger Bay Hotel School

No.	Item	Action
<b>1.</b>	<b><u>INTRODUCTION AND OBJECTIVES OF THE MEETING</u></b>	
1.1	Nomi Muthialu (NM) of NMA Effective Social Strategists (NMA) welcomed everyone to the meeting and provided a brief background to the project (list of attendees is attached). She said that Shell South Africa Exploration B.V. (Shell) was granted an Exploration Right for the Orange Basin Deep Water Licence Area in February 2012 and subsequently undertook a seismic survey in terms of their approved Environmental Management Programme (EMPr). Based on an analysis of the seismic data, Shell proposes to drill one or possibly two exploration wells. She outlined the legislative requirements that Shell is required to comply with and said that CCA Environmental (CCA), in association with NMA, has been appointed by Shell to undertake the required environmental processes.	Note
1.2	NM explained that the objectives of the meeting were to provide an opportunity for interested and affected parties (I&APs) to be involved in the project, provide a description of the proposed exploration drilling and Impact Assessment process, detail the legislative processes that Shell is required to comply with, ensure that all potential key environmental issues and impacts are identified, and to identify any potential environmental issues and impacts requiring further investigation.	Note
<b>2.</b>	<b><u>PRESENTATIONS: PROJECT OVERVIEW</u></b>	
2.1	Piet Lambregts (PL) of Shell presented an overview of the project covering the location of the licence area, a geological section of the Orange Basin, the seismic surveys that have been undertaken, the well location, drilling programme and drilling procedure as well as the sea and land based support likely to be required during implementation. (Refer to Appendix B).	Note
2.2	Jeremy Blood (JB) of CCA presented an overview of the impact assessment process covering the legislative requirements, impact assessment focus areas and subsequent specialist studies that will be undertaken. He also presented an overview of the public participation process that was being followed for the basic assessment and amendment of the existing EMPr. (Refer to Appendix B).	Note
<b>3.</b>	<b><u>QUESTION AND ANSWER SESSION</u></b>	
3.1	Karl Otto (KO) of the South African Maritime Safety Authority (SAMSA) noted that the maritime coordination centre needs to be informed of the transport of workers to and from the drilling vessel during operation, so they can assist in an emergency.	Shell
3.2	KO wanted to know if there is a pollution plan for the project.	
3.2.1	PL responded that oil spill and emergency response plans need to be in place before implementation begins. The basic assessment currently being undertaken will guide these plans.	Shell
3.2.2	Peter Mijsbergh (PM) of Shell added that all legislative requirements will be adhered to and that SAMSA will be included in the plans where required. He said CCA will include this in their assessment.	CCA

<p><b>3.3</b></p> <p><b>3.3.1</b></p> <p><b>3.4</b></p> <p><b>3.5</b></p> <p><b>3.5.1</b></p> <p><b>3.5.2</b></p> <p><b>3.6</b></p> <p><b>3.6.1</b></p> <p><b>3.6.2</b></p> <p><b>3.7</b></p> <p><b>3.71</b></p>	<p>KO informed the meeting that the 500 metre exclusion zone that will be in place around the drilling vessel will need to be promulgated in conjunction with the South African Navy Hydrographic Office. He said traffic numbers and notices to mariners need to be communicated to SAMSA.</p> <p>Jonathan Crowther (JC) of CCA concurred and added that generally a standard navigation warning is sent out as part of the operational plan.</p> <p>KO explained that SAMSA need to know what vessels are operating where because they are responsible for notifying marine traffic. KO also noted that SAMSA has a good idea of the number and direction of vessel traffic in the project area, should this be required for the assessment.</p> <p>Jake Laubscher (JL) of 6 Sigma Naval Architects asked if there would be service delivery opportunities to support the drilling operations.</p> <p>PL replied that there will not be many service delivery opportunities although some of the supporting services could be sourced from South Africa. He said there will be more opportunities if the drill ship is used rather than the semi-submersible drill rig.</p> <p>Janine Nel (JN) of Shell added that the contact details of Shell's tender department can be made available once an Environmental Authorisation is received.</p> <p>KO wanted to know if the data from the seismic survey is available to the public.</p> <p>PL explained that the speculative data is the property of the survey contractor and Shell is only leasing it from them. He added that the data was given to Petroleum Agency South Africa (PASA). Mthozami Xiphu (MX) of South African Oil &amp; Gas Alliance (SAOGA) said that after four years it will become the property of the state and therefore available to the public.</p> <p>KO noted that the seismic survey was done in the South African 200 mile Exclusive Economic Zone (EEZ) so according to him, technically all the data belongs to the state.</p> <p>MX enquired whether Shell need the drill cuttings for analysis and information purposes.</p> <p>PL responded that Shell don't use the drill cuttings from the first stage of drilling in preparing the well once the Blow-out Preventer (BOP) is installed but added that other companies could be interested in data obtained from them. He said the data from these cuttings is of no real interest to oil companies.</p>	<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Shell</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>
<p><b>4.</b></p> <p><b>4.1</b></p> <p><b>4.2</b></p>	<p><b><u>WAY FORWARD AND CLOSURE</u></b></p> <p>NM thanked all for attending. She noted that participants had until 2 December 2013, when the current 30-day comment period closes, to submit further comments on the project. She referred to the comments sheet included with the Background Information Document (BID) distributed at the meeting and invited participants to complete these and hand them in after the meeting or to send them through to NMA.</p> <p>She outlined the process to be followed going forward which is that the specialist consultants will conduct their specialist studies. She said the draft Basic Assessment Report (BAR) and draft EMPr Addendum will be prepared and made available for public scrutiny during a further 40-day comment period. A second round of information sharing meetings will take place during the 40-day comment period between February and March next year. NM then closed the meeting.</p>	<p>Note</p> <p>Note</p>

**ATTACHMENT A**  
**LIST OF ATTENDEES**




No.	Name	Organisation
1.	Anschen Friederichs (AF)	Sunbird Energy
2.	Adrian Strydom (AS)	South African Oil & Gas Alliance
3.	Claude Vanqa (CV)	Shell South Africa Exploration B.V.
4.	Ebrahim Takolia (ET)	South African Oil & Gas Alliance
5.	Gheneez Munian (GM)	Shell South Africa Exploration B.V.
6.	Jeremy Blood (JB)	CCA Environmental
7.	Jonathan Crowther (JC)	CCA Environmental
8.	Jan Willem Eggink (JE)	Shell South Africa Exploration B.V.
9.	Jake Laubscher (JL)	6 Sigma Naval Architects
10.	Janine Nel (JN)	Shell South Africa Exploration B.V.
11.	Karl Otto (KO)	South African Maritime Safety Authority
12.	Mandy Kula (MK)	CCA Environmental
13.	Mthozami Xiphu (MX)	South African Oil & Gas Alliance
14.	Nomi Muthialu (NM)	NMA Effective Social Strategists
15.	Nigel Rossouw (NR)	Shell South Africa Exploration B.V.
16.	Oliver Tasbert (OT)	Shell South Africa Exploration B.V.
17.	Piet Lambregts (PL)	Shell South Africa Exploration B.V.
18.	Peter Mijsbergh (PM)	Shell South Africa Exploration B.V.
19.	Pieter Mocke (PMo)	NMA Effective Social Strategists
20.	Sarah Wilkinson (SH)	Capricorn Fisheries Monitoring CC



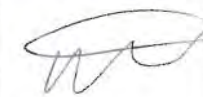
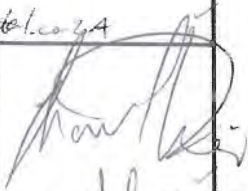
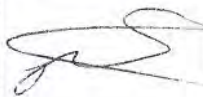
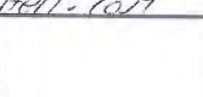
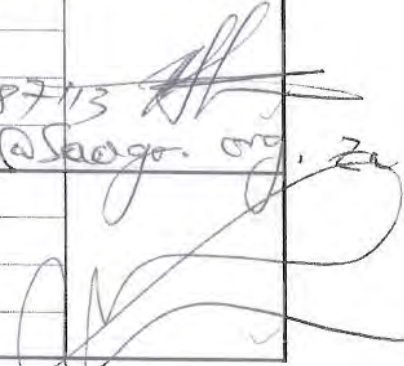
**PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE COAST OF SOUTH AFRICA**

NMA Effective Social Strategists				Attendance Register			
Date	11 November 2013	Time	17h30 – 20h00	Venue:	Granger Bay Hotel School Beach Road, Mouille Point	Type	Information Sharing Meeting

No.	Individual Details	Address	Contact Details	Signature
	<b>Name &amp; Surname:</b> Janine Nel	<b>Physical:</b>	<b>Tel :</b>	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>	<b>Fax :</b>	
			<b>Cell :</b>	
			<b>E-mail :</b>	
	<b>Name &amp; Surname:</b> Jeremy Blood	<b>Physical:</b>	<b>Tel :</b>	
	<b>Company/Organisation:</b> CCA	<b>Postal:</b>	<b>Fax :</b>	
			<b>Cell :</b>	
			<b>E-mail :</b>	
	<b>Name &amp; Surname:</b> Nigel Rossouw	<b>Physical:</b>	<b>Tel :</b>	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>	<b>Fax :</b>	
			<b>Cell :</b>	
			<b>E-mail :</b>	
	<b>Name &amp; Surname:</b> Piet Lambregts	<b>Physical:</b>	<b>Tel :</b>	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>	<b>Fax :</b>	
			<b>Cell :</b>	
			<b>E-mail :</b>	
	<b>Name &amp; Surname:</b> Claude Vanga	<b>Physical:</b>	<b>Tel :</b>	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>	<b>Fax :</b>	
			<b>Cell :</b>	
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No.	Individual Details	Address	Contact Details	Signature
	Name & Surname: Karl OTTO	Physical:	Tel 021: 938 3310	
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			E-mail : kotto@samsa.org.za	
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	Company/Organisation: SUNBIRD ENERGY	Postal: "	Fax : 021-4014198	
			Cell : 0834427650	
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	Name & Surname: Ebrahim Tcholo	Physical: 4 Loop Street, Cpa Town	Tel : 023067177	etahola@saoga.org.za ✓
	Company/Organisation: SA OIL & GAS ALLIANCE	Postal: Cpa Town	Fax :	
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			E-mail :	
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	Company/Organisation: SA OIL & GAS ALLIANCE	Postal:	Fax :	
			Cell : 0824536745	
			E-mail :	
	Name & Surname: OLIVER TABBER	Physical:	Tel :	
	Company/Organisation: SHELL	Postal:	Fax :	
			Cell :	
			E-mail :	
	Name & Surname: Pieter Moeue	Physical:	Tel :	
	Company/Organisation: NMA	Postal:	Fax :	
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			E-mail :	



No.	Individual Details	Address	Contact Details	Signature
	Name & Surname: Mandy Ruck	Physical:	Tel : 021 461 1118	
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	Name & Surname: Jonathan Crowther	Physical:	Tel : 021 461 1118	
	Company/Organisation: CCA	Postal: P.O. BOX 10145 CALEDON SQUARE	Fax : Cell : 082 777 1477 E-mail : jonathan@ccaenvironmental.co.za	
	Name & Surname: Peter Mjysberg	Physical: Media City 10 RUP VASCA LA GAMA	Tel : 082 802 8249	
	Company/Organisation: Shell	Postal: Pool CPT	Fax : Cell : E-mail : P.Mjysberg@shell.co.za	
	Name & Surname: SARAH WILKINSON	Physical: UNIT 15, FERRE GATE SQUARE	Tel : 021 425 6226	
	Company/Organisation: CAPFISH SA	Postal:	Fax : Cell : E-mail : Sarah@capfish.co.za	
	Name & Surname: ADRIAN STRYDOM	Physical: SAOGA 4 LOOP ST. CT.	Tel : Fax : Cell : 083 778 7113	
	Company/Organisation:	Postal: 604 - 4 LOOP ST CAPE TOWN	E-mail : ASTRYDOM@SAOGA.ORG.ZA	
	Name & Surname: Nomi Muthialu	Physical:	Tel : Fax : Cell : E-mail :	
	Company/Organisation: NMA	Postal:		

No.	Individual Details	Address	Contact Details	Signature
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Jan Willem Eggink			
	Company/Organisation:	Postal:		
	Shell			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Gheneez Munian			
	Company/Organisation:	Postal:		
	Shell			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Jake Laubscher			
	Company/Organisation:	Postal:		
	6 Sigma Naval Architects			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Company/Organisation:	Postal:		
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	Company/Organisation:	Postal:		
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**ATTACHMENT B**  
**PRESENTATIONS**





**PROPOSED EXPLORATION  
DRILLING IN THE ORANGE  
BASIN DEEP WATER LICENCE  
AREA OFF THE WEST COAST  
OF SOUTH AFRICA**

**Information-Sharing Meetings**

**Cape Town and Saldanha  
11 and 12 November 2013**



**AGENDA**

1. Introduction and Objectives of the Meeting (NMA)
2. Presentations
  - Project Overview (Shell)
  - Impact Assessment Overview (CCA)
3. Question and Answer Session (All)
4. Summary of Outcomes (NMA / CCA)
5. Way Forward and Closure (NMA)

**MEETING PROCEDURES**

- Please turn off cell phones
- Points of clarity only during presentations
- Please identify yourself and which organisation you represent (if applicable)
- Please sign the Attendance Register
- Meeting is being recorded
- Notes being taken



**GROUND RULES**

- ❖ Only one person speaks at a time, no one to interrupt whilst someone else is speaking (Avoid side conversations please!).
- ❖ Signal the facilitator and wait to be acknowledged.
- ❖ Everybody agrees to make a strong effort to keep on track with the agenda and move deliberations forward.
- ❖ Each person reserves the right to disagree with proposals and may offer alternatives.
- ❖ Avoid "grandstanding" (i.e. extended comments / speaking) so that every one has a fair chance to speak.



**GENERAL INTRODUCTION**

1. Shell was granted an Exploration Right for the Orange Basin Deep Water Licence Area in February 2012
2. Shell undertook a seismic survey in terms of their approved EMPr
3. Based on analysis of the seismic data, Shell proposes to drill one or possibly two exploration wells
4. Shell is required to comply with the requirements of:
  - MPRDA (No. 28 of 2002): EMPr Addendum
  - NEMA (No. 107 of 1998): Basic Assessment
5. CCA, in association with NMA, has been appointed by Shell to undertake the required environmental processes

**OBJECTIVES OF MEETING**

1. Inform I&APs about the legislative processes that Shell is required to comply with
2. Provide a description of the proposed exploration drilling and the Impact Assessment process
3. Provide I&APs a with reasonable opportunity to be involved in the study
4. Ensure that all potential key environmental issues and impacts are identified
5. Identify any potential environmental issues and impacts requiring further investigation



## PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA

Information-sharing Meetings Cape Town & Saldanha  
11 & 12 November 2013

## DEFINITIONS AND CAUTIONARY NOTE

**Reserves:** Our use of the term "reserves" in this presentation means SEC proved oil and gas reserves.  
**Resources:** Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.  
**Organic:** Our use of the term Organic in this presentation includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact.

The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate entities. In this presentation "Shell", "Shell group" and "Royal Dutch Shell" are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to subsidiaries in general or to those who work for them. These expressions are also used where no useful purpose is served by identifying the particular company or companies. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used in this presentation refer to companies over which Royal Dutch Shell plc either directly or indirectly has control. Companies over which Shell has joint control are generally referred to as "joint ventures" and companies over which Shell has significant influence but neither control nor joint control are referred to as "associates". In this presentation, joint ventures and associates may also be referred to as "equity-accounted investments". The term "Shell interest" is used for convenience to indicate the direct and/or indirect (for example, through our 23% shareholding in Woodside Petroleum Ltd) ownership interest held by Shell in a venture, partnership or company, after exclusion of all third-party interest.

This presentation contains forward-looking statements concerning the financial condition, results of operations and businesses of Royal Dutch Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management's expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as "anticipate", "believe", "could", "estimate", "expect", "goal", "intend", "may", "objective", "outlook", "plan", "probably", "project", "risk", "schedule", "seek", "should", "target", "will" and similar terms and phrases. There are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this presentation, including (without limitation): (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions; (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, fiscal and regulatory developments including regulatory measures addressing climate change; (k) economic and financial market conditions in various countries and regions; (l) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; and (m) changes in trading conditions. All forward-looking statements contained in this presentation are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional risk factors that may affect future results are contained in Royal Dutch Shell's 20-F for the year ended December 31, 2012 (available at [www.shell.com/investor](http://www.shell.com/investor) and [www.sec.gov](http://www.sec.gov)). These risk factors also expressly qualify all forward-looking statements contained in this presentation and should be considered by the reader. Each forward-looking statement speaks only as of the date of this presentation, 11 November 2013. Neither Royal Dutch Shell plc nor any of its subsidiaries undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this presentation.

We may have used certain terms, such as resources, in this presentation that United States Securities and Exchange Commission (SEC) strictly prohibits us from including in our filings with the SEC. U.S. investors are urged to consider closely the disclosure in our Form 20-F, File No. 1-32575, available on the SEC website [www.sec.gov](http://www.sec.gov). You can also obtain these forms from the SEC by calling 1-800-SEC-0330.

## Project Overview

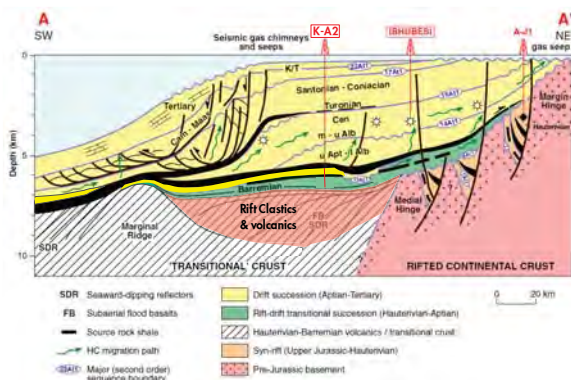
1. Licence Area
2. Orange Basin geology section
3. Seismic acquisition
4. Well location
5. Drilling programme
6. Drilling procedure
7. Sea- and land-based support

## License area

1. Licence area is ~37 290 km<sup>2</sup> in extent.
2. The eastern border of the licence area is located between 150 km and 300 km off coast roughly between Saldanha Bay and Kleinsee.
3. Water depths range from 500 m to 3 500 m.

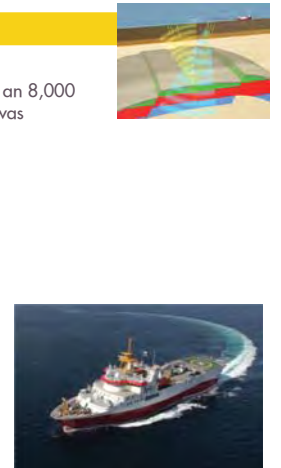
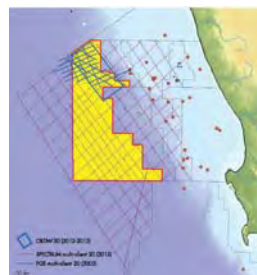


## Orange Basin Geological Section



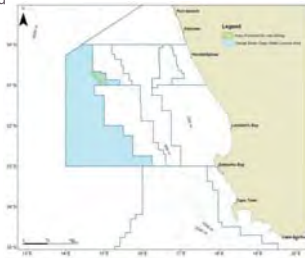
## Seismic Acquisition

1. A 3D seismic survey was undertaken in an 8,000 km<sup>2</sup> portion of the licence area, which was completed in February 2013.



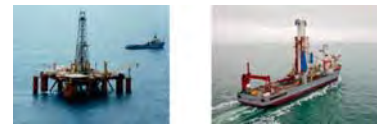
## License area

1. Area of interest:
  - 900 km<sup>2</sup> in extent.
  - 1,500 m to 2,100 m water depth.
2. Final well location will be based on:
  - further analysis of the 3D seismic data
  - the geological target; and
  - seafloor obstacles



## Drilling Programme

1. Shell is proposing to drill one or possibly two wells
2. Depending on the success of the first well, a second well may be drilled to establish the resource quantity and flow rate.
3. Drilling is expected to take place in a future summer window period, between November to April
4. Well drilling would take in the order of 3 months to complete
5. The second well would be drilled at least one year after completion of the first well
6. Drilling unit: semi-submersible drilling unit or a drill-ship



## Drilling procedure

1. Initial (riserless) drilling:
  - A conductor pipe is jetted / drilled and cemented into place up to a depth of ~75 m.
  - Below the conductor pipe, a top hole is drilled up to a depth of ~1 000 m, and casing pipe is run and cemented into place.
  - A water-based mud (WBM) is used to maintain well pressure, cool and lubricate the drill bit and lift rock cuttings from the hole.
  - Rock cuttings and WBM are discarded on the seafloor.



## Drilling procedure (cont.)

2. Next stage of drilling:
  - A BOP and riser are run and installed on the wellhead.
  - This stage of drilling would be undertaken using a synthetic-based mud (SBM).
  - Drilling operations are the same as for the top hole, only the SBM and rock cuttings are circulated back to the drilling unit. The mud is treated before being re-circulated.
  - Cuttings are treated and discharged overboard.



## Sea and land-based support

1. The logistics shore base would be located in either Cape Town or Saldanha Bay.
2. Personnel would be transported to the drilling unit by helicopter from Kleinsee.



3. Fixed-wing flights would be used between Kleinsee and Cape Town





## IMPACT ASSESSMENT OVERVIEW

1. Legislative requirements
2. Impact assessment process
3. Impact assessment focus area
4. Specialist studies

## LEGISLATIVE REQUIREMENTS



1. Mineral and Petroleum Resources Development Act, 2002:
  - Shell has an Exploration Right and approved EMPr for seismic surveys and well drilling in the Licence Area
  - Approved EMPr needs to be amended
2. National Environmental Management Act, 1998:
  - NEMA provides for the control of certain listed activities, which are prohibited until environmental authorisation is obtained from DEA
  - The proposed drilling operation requires that a Basic Assessment be undertaken
3. Current study process aims to dovetail the NEMA & MPRDA requirements

## IMPACT ASSESSMENT PROCESS

1. Application Form submit to DEA to register the project
2. First round of public consultation:
  - Identify key stakeholders and I&APs
  - Authority meetings with PASA, DEA and DAFF
  - Adverts placed in Sunday Times, Rapport, Cape Times, Die Burger, Ons Kontrei and Weslander
  - Posters placed in Saldanha, Vredenburg, Lamberts Bay, Springbok, Kleinzee and Port Nolloth
  - BID distributed for a 30-day comment period (closes 2 Dec)
  - Information-sharing meetings in Cape Town & Saldanha

## IMPACT ASSESSMENT PROCESS (cont.)

3. Compile specialist studies
4. Compile Draft BAR and Draft EMPr Addendum
5. Second round of public consultation (Jan - Mar 2014):
  - Release draft reports for a 40-day comment period
  - Advertise (incl. posters) availability of draft reports and Information-feedback Meetings
  - Written notification (incl. Exec Summ) to registered I&APs
  - Information-feedback meetings in Cape Town & Saldanha



## IMPACT ASSESSMENT PROCESS (cont.)

6. Compile Final BAR and Final EMPr Addendum
7. Submit Final EMPr Addendum to PASA (120 days)
8. Third round of public consultation (Apr - May 2014):
  - Release Final BAR for a 30-day comment period
  - Posters placed in Saldanha, Vredenburg, Lamberts Bay, Springbok, Kleinzee and Port Nolloth
  - Written notification (incl. Exec Summ) to registered I&APs
6. Submit Final BAR (with any comments) to DEA (76 days)
7. Distribute DEA decision and statutory appeal period

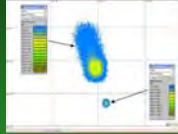
## IMPACT ASSESSMENT FOCUS AREA

1. Key focus areas that will be addressed include:
  - Disposal of cuttings
  - Temporary loss of access to fishing grounds and abandonment / suspension of wellheads on the seafloor
  - Temporary interference with marine traffic
  - Potential hydrocarbon spills (i.e. small accidental spills from normal operations to large spills from unplanned failure events such as well blow-outs)



## SPECIALIST STUDIES

1. Dispersion and Oil Spill Modelling



2. Marine Fauna Assessment



3. Fishing Industry Assessment



## PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA





**PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA**

**SALDANHA BAY  
INFORMATION-SHARING  
MEETING**

Date: 12 November 2013  
Time: 17h30  
Venue: Protea Hotel Saldanha Bay

No.	Item	Action
<b>1.</b>	<b><u>INTRODUCTION AND OBJECTIVES OF THE MEETING</u></b>	
1.1	Nomi Muthialu (NM) of NMA Effective Social Strategists (NMA) welcomed everyone to the meeting and provided a brief background to the project (list of attendees is attached). She said that Shell South Africa Exploration B.V. (Shell) was granted an Exploration Right for the Orange Basin Deep Water Licence Area in February 2012 and subsequently undertook a seismic survey in terms of their approved Environmental Management Programme (EMPr). Based on an analysis of the seismic data, Shell proposes to drill one or possibly two exploration wells. She outlined the legislative requirements that Shell is required to comply with and said that CCA Environmental (CCA), in association with NMA, has been appointed by Shell to undertake the required environmental processes.	Note
1.2	NM explained that the objectives of the meeting were to provide an opportunity for interested and affected parties (I&APs) to be involved in the project, provide a description of the proposed exploration drilling and Impact Assessment process, detail the legislative processes that Shell is required to comply with, ensure that all potential key environmental issues and impacts are identified, and to identify any potential environmental issues and impacts requiring further investigation.	Note
<b>2.</b>	<b><u>PRESENTATIONS: PROJECT OVERVIEW</u></b>	
2.1	Piet Lambregts (PL) of Shell presented an overview of the project covering the location of the licence area, a geological section of the Orange Basin, the seismic surveys that have been undertaken, the well location, drilling programme and drilling procedure as well as the sea and land based support likely to be required during implementation. (Refer to Appendix B).	Note
2.2	Jeremy Blood (JB) of CCA presented an overview of the impact assessment process covering the legislative requirements, impact assessment focus areas and subsequent specialist studies that will be undertaken. He also presented an overview of the public participation process that was being followed for the basic assessment and amendment of the existing EMPr. (Refer to Appendix B).	Note
<b>3.</b>	<b><u>QUESTION AND ANSWER SESSION</u></b>	
3.1	Andre Theart (AT) of ArcelorMittal asked why the Blow-out Preventer (BOP) is needed during drilling operations.	
3.1.1	PL explained that drilling operations are designed according to the estimated pressure that would be experienced. He said the BOP acts as a safeguard in case the actual pressure experienced is more than what was estimated. He added that an oil spill plan would be finalised before drilling operations commence. He said this would include a capping device situated in Saldanha Bay which would be used to close the well should the BOP fail.	
3.2	Titiana Stefanus-Zincke of Oceana Group noted that the 6-year period CapFish will look at during their specialist study may need to be extended. She said trends can be identified when looking at older fisheries data, say from the 1990s.	

<p>3.2.1</p> <p>3.3</p>	<p>JB acknowledged the comment and noted that CapFish would obtain additional data from the Department of Agriculture, Forestry and Fisheries (DAFF) for their specialist study. He said CCA would investigate this further.</p> <p>Elmien de Bruyn (EdB) of Duferco Steel Processing noted that some of their products get exported but the project would have no impact on their industry.</p>	<p>CCA</p>
<p>4.</p> <p>4.1</p> <p>4.2</p> <p>4.3</p> <p>4.4</p>	<p><b><u>WAY FORWARD AND CLOSURE</u></b></p> <p>NM thanked all for attending. She noted that participants had until 2 December 2013, when the current 30-day comment period closes, to submit further comments on the project. She referred to the comments sheet included with the Background Information Document (BID) distributed at the meeting and invited participants to complete these and hand them in after the meeting or to send them through to NMA.</p> <p>She outlined the process to be followed going forward which is that the specialist consultants will conduct their specialist studies. She said the draft Basic Assessment Report (BAR) and draft EMPr Addendum will be prepared and made available for public scrutiny during a further 40-day comment period. A second round of information sharing meetings will take place during the 40-day comment period between February and March next year.</p> <p>Nigel Rossouw (NR) of Shell invited attendees to discuss any further issues with the project team after the meeting or to submit these to NMA using the contact details provided.</p> <p>Janine Nel (JN) of Shell informed attendees that there is an Orange Basin webpage on the Shell South Africa website where more information on the project could be found. (Navigate to About Shell &gt; Our Business &gt; Upstream &gt; Orange Basin).</p> <p>NM closed the meeting.</p>	<p>Note</p>

**ATTACHMENT A**  
**LIST OF ATTENDEES**



<b>No.</b>	<b>Name</b>	<b>Organisation</b>
1.	Andre Theart (AT)	ArcelorMittal
2.	Claude Vanqa (CA)	Shell South Africa Exploration B.V.
3.	Elmien de Bruyn (EdB)	Duferco Steel Processing
4.	Greg Marshall (GM)	Sea Harvest
5.	Jeremy Blood (JB)	CCA Environmental
6.	Janine Nel (JN)	Shell South Africa Exploration B.V.
7.	Mandy Kula (MK)	CCA Environmental
8.	Nomi Muthialu (NM)	NMA Effective Social Strategists
9.	Nigel Rossouw (NR)	Shell South Africa Exploration B.V.
10.	Piet Lambregts (PL)	Shell South Africa Exploration B.V.
11.	Peter Mijsbergh (PM)	Shell South Africa Exploration B.V.
12.	Pieter Mocke (PMo)	NMA Effective Social Strategists
13.	Titiana Stefanus-Zincke (TSZ)	Oceana Group







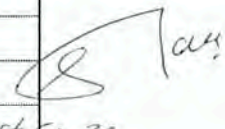


**PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE COAST OF SOUTH AFRICA**


NMA Effective Social Strategists				Attendance Register			
<b>Date</b>	12 November 2013	<b>Time</b>	17h30 – 20h00	<b>Venue:</b>	Protea Hotel 51 Main Road, Saldanha	<b>Type</b>	Information Sharing Meeting

No.	Individual Details	Address	Contact Details	Signature
	<b>Name &amp; Surname:</b> Jeremy Blood	<b>Physical:</b> Unit 35 30 Drury Lane, Roeland Sq	<b>Tel</b> : 021 461 1118 <b>Fax</b> : 021 461 1120 <b>Cell</b> : 083 310 2037 <b>E-mail</b> : jeremy@ccaenvironmental.co.za	
	<b>Company/Organisation:</b> CCA	<b>Postal:</b> PO Box 10145 Caledon Sq		
	<b>Name &amp; Surname:</b> Titania Stefanus-Linke	<b>Physical:</b> 9 <sup>th</sup> Floor, Oceana House 25 Jan Smuts Street, Cape Town	<b>Tel</b> : 021 4101400 <b>Fax</b> : <b>Cell</b> : 0828534084 <b>E-mail</b> : titanias@ocean.co.za	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>		
	<b>Name &amp; Surname:</b> Peter Muisberg	<b>Physical:</b>	<b>Tel</b> : <b>Fax</b> : <b>Cell</b> : <b>E-mail</b> :	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>		
	<b>Name &amp; Surname:</b> Nigel Rossouw	<b>Physical:</b>	<b>Tel</b> : <b>Fax</b> : <b>Cell</b> : <b>E-mail</b> :	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>		
	<b>Name &amp; Surname:</b> Piet Lambregts	<b>Physical:</b>	<b>Tel</b> : <b>Fax</b> : <b>Cell</b> : <b>E-mail</b> :	
	<b>Company/Organisation:</b> Shell	<b>Postal:</b>		

**PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE COAST OF SOUTH AFRICA**

NMA Effective Social Strategists				Attendance Register			
Date	12 November 2013	Time	17h30 – 20h00	Venue:	Protea Hotel 51 Main Road, Saldanha	Type	Information Sharing Meeting

No.	Individual Details	Address	Contact Details	Signature
	Name & Surname:	Physical: Saldanha Steel	Tel : 022 7094358	
	André Theart		Fax : 022 709 2138	
	Company/Organisation:	Postal: Private Bay XII	Cell : 083 4634077	
	Arcelormittal.	Saldanha	E-mail : andre.theart@arcelormittal.com	
	Name & Surname:	Physical: 1 Potassium Street	Tel : 022 709 7127	
	Elmiere de Buyn	Saldanha	Fax : 022 709 7342	
	Company/Organisation:	Postal: P. Bag x 12, Saldanha	Cell : 083 308 5938	
	Dufoco Steel Processing	7315	E-mail : elmiere@dsp.co.za	
	Name & Surname:	Physical: GOVERNMENT JETTY	Tel : 022 7014166	
	GREG MARSHALL	FISHING HARBOUR, SALDANHA	Fax : 022 7144239	
	Company/Organisation:	Postal: P.O. Box 52	Cell : 082 5619604	
	SEA HARVEST CORP. (PTY) LTD	SALDANHA	E-mail : gregm@seaharvest.co.za	
	Name & Surname:	Physical:	Tel :	
	Mandy Kula		Fax :	
	Company/Organisation:	Postal:	Cell :	
	CCA		E-mail :	
	Name & Surname:	Physical:	Tel :	
	Peiter Mocke		Fax :	
	Company/Organisation:	Postal:	Cell :	
	NMA		E-mail :	

No.	Individual Details	Address	Contact Details	Signature
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	✓
	Claude Vanga			
	Company/Organisation:	Postal:		
	Shell			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Nomi Muthialu			
	Company/Organisation:	Postal:		
	NMA			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	✓
	Janine Neil			
	Company/Organisation:	Postal:		
	Shell			
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Company/Organisation:	Postal:		
	Name & Surname:	Physical:	Tel : Fax : Cell : E-mail :	
	Company/Organisation:	Postal:		



**ATTACHMENT B**  
**PRESENTATIONS**





**PROPOSED EXPLORATION  
DRILLING IN THE ORANGE  
BASIN DEEP WATER LICENCE  
AREA OFF THE WEST COAST  
OF SOUTH AFRICA**

**Information-Sharing Meetings**

**Cape Town and Saldanha  
11 and 12 November 2013**



**AGENDA**

1. Introduction and Objectives of the Meeting (NMA)
2. Presentations
  - Project Overview (Shell)
  - Impact Assessment Overview (CCA)
3. Question and Answer Session (All)
4. Summary of Outcomes (NMA / CCA)
5. Way Forward and Closure (NMA)

**MEETING PROCEDURES**

- Please turn off cell phones
- Points of clarity only during presentations
- Please identify yourself and which organisation you represent (if applicable)
- Please sign the Attendance Register
- Meeting is being recorded
- Notes being taken



**GROUND RULES**

- ❖ Only one person speaks at a time, no one to interrupt whilst someone else is speaking (Avoid side conversations please!).
- ❖ Signal the facilitator and wait to be acknowledged.
- ❖ Everybody agrees to make a strong effort to keep on track with the agenda and move deliberations forward.
- ❖ Each person reserves the right to disagree with proposals and may offer alternatives.
- ❖ Avoid "grandstanding" (i.e. extended comments / speaking) so that every one has a fair chance to speak.



**GENERAL INTRODUCTION**

1. Shell was granted an Exploration Right for the Orange Basin Deep Water Licence Area in February 2012
2. Shell undertook a seismic survey in terms of their approved EMPr
3. Based on analysis of the seismic data, Shell proposes to drill one or possibly two exploration wells
4. Shell is required to comply with the requirements of:
  - MPRDA (No. 28 of 2002): EMPr Addendum
  - NEMA (No. 107 of 1998): Basic Assessment
5. CCA, in association with NMA, has been appointed by Shell to undertake the required environmental processes

**OBJECTIVES OF MEETING**

1. Inform I&APs about the legislative processes that Shell is required to comply with
2. Provide a description of the proposed exploration drilling and the Impact Assessment process
3. Provide I&APs a with reasonable opportunity to be involved in the study
4. Ensure that all potential key environmental issues and impacts are identified
5. Identify any potential environmental issues and impacts requiring further investigation



## PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA

Information-sharing Meetings Cape Town & Saldanha  
11 & 12 November 2013

## DEFINITIONS AND CAUTIONARY NOTE

**Reserves:** Our use of the term "reserves" in this presentation means SEC proved oil and gas reserves.  
**Resources:** Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.  
**Organic:** Our use of the term Organic in this presentation includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact.

The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate entities. In this presentation "Shell", "Shell group" and "Royal Dutch Shell" are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to subsidiaries in general or to those who work for them. These expressions are also used where no useful purpose is served by identifying the particular company or companies. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used in this presentation refer to companies over which Royal Dutch Shell plc either directly or indirectly has control. Companies over which Shell has joint control are generally referred to as "joint ventures" and companies over which Shell has significant influence but neither control nor joint control are referred to as "associates". In this presentation, joint ventures and associates may also be referred to as "equity-accounted investments". The term "Shell interest" is used for convenience to indicate the direct and/or indirect (for example, through our 23% shareholding in Woodside Petroleum Ltd) ownership interest held by Shell in a venture, partnership or company, after exclusion of all third-party interest.

This presentation contains forward-looking statements concerning the financial condition, results of operations and businesses of Royal Dutch Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management's expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as "anticipate", "believe", "could", "estimate", "expect", "goal", "intend", "may", "objective", "outlook", "plan", "probably", "project", "risk", "schedule", "seek", "should", "target", "will" and similar terms and phrases. There are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this presentation, including (without limitation): (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions; (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, fiscal and regulatory developments including regulatory measures addressing climate change; (k) economic and financial market conditions in various countries and regions; (l) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; and (m) changes in trading conditions. All forward-looking statements contained in this presentation are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional risk factors that may affect future results are contained in Royal Dutch Shell's 2012-2013 Form for the year ended December 31, 2012 (available at [www.shell.com/investor](http://www.shell.com/investor) and [www.sec.gov](http://www.sec.gov)). These risk factors also expressly qualify all forward-looking statements contained in this presentation and should be considered by the reader. Each forward-looking statement speaks only as of the date of this presentation, 11 November 2013. Neither Royal Dutch Shell plc nor any of its subsidiaries undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this presentation.

We may have used certain terms, such as resources, in this presentation that United States Securities and Exchange Commission (SEC) strictly prohibits us from including in our filings with the SEC. U.S. investors are urged to consider closely the disclosure in our Form 20-F, File No. 1-32575, available on the SEC website [www.sec.gov](http://www.sec.gov). You can also obtain these forms from the SEC by calling 1-800-SEC-0330.

## Project Overview

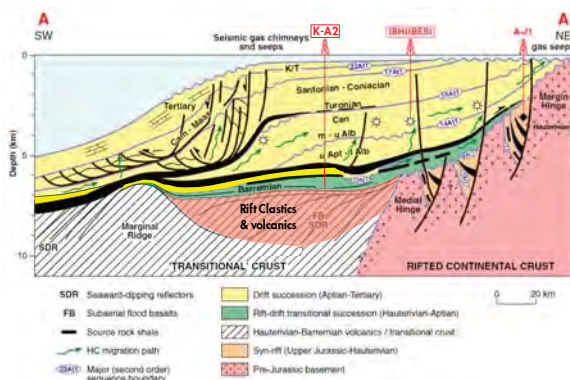
1. Licence Area
2. Orange Basin geology section
3. Seismic acquisition
4. Well location
5. Drilling programme
6. Drilling procedure
7. Sea- and land-based support

## License area

1. Licence area is ~37 290 km<sup>2</sup> in extent.
2. The eastern border of the licence area is located between 150 km and 300 km off coast roughly between Saldanha Bay and Kleinsee.
3. Water depths range from 500 m to 3 500 m.

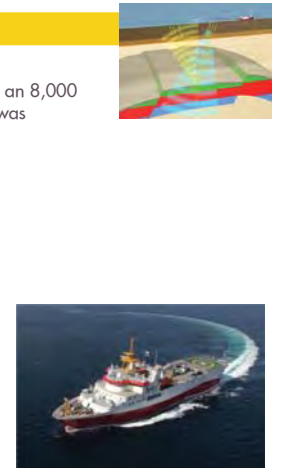
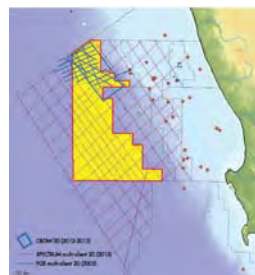


## Orange Basin Geological Section



## Seismic Acquisition

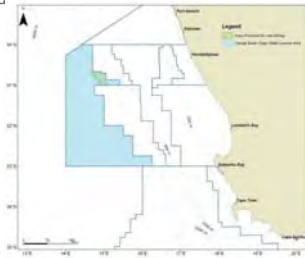
1. A 3D seismic survey was undertaken in an 8,000 km<sup>2</sup> portion of the licence area, which was completed in February 2013.





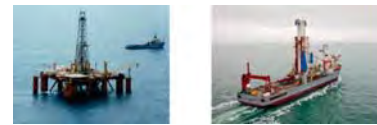
## License area

- Area of interest:
  - 900 km<sup>2</sup> in extent.
  - 1,500 m to 2,100 m water depth.
- Final well location will be based on:
  - further analysis of the 3D seismic data
  - the geological target; and
  - seafloor obstacles



## Drilling Programme

- Shell is proposing to drill one or possibly two wells
- Depending on the success of the first well, a second well may be drilled to establish the resource quantity and flow rate.
- Drilling is expected to take place in a future summer window period, between November to April
- Well drilling would take in the order of 3 months to complete
- The second well would be drilled at least one year after completion of the first well
- Drilling unit: semi-submersible drilling unit or a drill-ship



## Drilling procedure

- Initial (riserless) drilling:
  - A conductor pipe is jetted / drilled and cemented into place up to a depth of ~75 m.
  - Below the conductor pipe, a top hole is drilled up to a depth of ~1 000 m, and casing pipe is run and cemented into place.
  - A water-based mud (WBM) is used to maintain well pressure, cool and lubricate the drill bit and lift rock cuttings from the hole.
  - Rock cuttings and WBM are discarded on the seafloor.



## Drilling procedure (cont.)

- Next stage of drilling:
  - A BOP and riser are run and installed on the wellhead.
  - This stage of drilling would be undertaken using a synthetic-based mud (SBM).
  - Drilling operations are the same as for the top hole, only the SBM and rock cuttings are circulated back to the drilling unit. The mud is treated before being re-circulated.
  - Cuttings are treated and discharged overboard.



## Sea and land-based support

- The logistics shore base would be located in either Cape Town or Saldanha Bay.
- Personnel would be transported to the drilling unit by helicopter from Kleinsee.



- Fixed-wing flights would be used between Kleinsee and Cape Town





## IMPACT ASSESSMENT OVERVIEW

1. Legislative requirements
2. Impact assessment process
3. Impact assessment focus area
4. Specialist studies

## LEGISLATIVE REQUIREMENTS



1. Mineral and Petroleum Resources Development Act, 2002:
  - Shell has an Exploration Right and approved EMPr for seismic surveys and well drilling in the Licence Area
  - Approved EMPr needs to be amended
2. National Environmental Management Act, 1998:
  - NEMA provides for the control of certain listed activities, which are prohibited until environmental authorisation is obtained from DEA
  - The proposed drilling operation requires that a Basic Assessment be undertaken
3. Current study process aims to dovetail the NEMA & MPRDA requirements

## IMPACT ASSESSMENT PROCESS

1. Application Form submit to DEA to register the project
2. First round of public consultation:
  - Identify key stakeholders and I&APs
  - Authority meetings with PASA, DEA and DAFF
  - Adverts placed in Sunday Times, Rapport, Cape Times, Die Burger, Ons Kontrei and Weslander
  - Posters placed in Saldanha, Vredenburg, Lamberts Bay, Springbok, Kleinzee and Port Nolloth
  - BID distributed for a 30-day comment period (closes 2 Dec)
  - Information-sharing meetings in Cape Town & Saldanha

## IMPACT ASSESSMENT PROCESS (cont.)

3. Compile specialist studies
4. Compile Draft BAR and Draft EMPr Addendum
5. Second round of public consultation (Jan - Mar 2014):
  - Release draft reports for a 40-day comment period
  - Advertise (incl. posters) availability of draft reports and Information-feedback Meetings
  - Written notification (incl. Exec Summ) to registered I&APs
  - Information-feedback meetings in Cape Town & Saldanha



## IMPACT ASSESSMENT PROCESS (cont.)

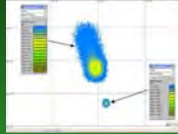
6. Compile Final BAR and Final EMPr Addendum
7. Submit Final EMPr Addendum to PASA (120 days)
8. Third round of public consultation (Apr - May 2014):
  - Release Final BAR for a 30-day comment period
  - Posters placed in Saldanha, Vredenburg, Lamberts Bay, Springbok, Kleinzee and Port Nolloth
  - Written notification (incl. Exec Summ) to registered I&APs
6. Submit Final BAR (with any comments) to DEA (76 days)
7. Distribute DEA decision and statutory appeal period

## IMPACT ASSESSMENT FOCUS AREA

1. Key focus areas that will be addressed include:
  - Disposal of cuttings
  - Temporary loss of access to fishing grounds and abandonment / suspension of wellheads on the seafloor
  - Temporary interference with marine traffic
  - Potential hydrocarbon spills (i.e. small accidental spills from normal operations to large spills from unplanned failure events such as well blow-outs)

## SPECIALIST STUDIES

1. Dispersion and Oil Spill Modelling



2. Marine Fauna Assessment



3. Fishing Industry Assessment



## PROPOSED EXPLORATION DRILLING IN THE ORANGE BASIN DEEP WATER LICENCE AREA OFF THE WEST COAST OF SOUTH AFRICA

