



Annual Report

Licence Year 6 of First Renewal Term

5 June 2013 to 4 June 2014

Petroleum Exploration Licence (PEL) 91

**Cooper / Eromanga Basin
South Australia**

4 August 2014

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1 Introduction

Petroleum Exploration Licence (PEL) 91 was granted on 8 January 2002. The Licence is located on the western margin of the Cooper/Eromanga Basin, South Australia.

This report details the work conducted during Licence Year 6 of the first renewal Term (5 June 2013 to 4 June 2014) in accordance with Regulation 33 of the *Petroleum and Geothermal Energy Act 2000* (the Act).

2 Licence Summary

PEL 91 was originally awarded in January 2002 to:

- Great Artesian Oil and Gas (GAOG) (formerly Tyers Investments) 100%

Beach Petroleum Limited farmed into the Licence in December 2002 and became the Operator. The participating interests in PEL 91 subsequently became:

- GAOG 60%
- Beach Petroleum Limited (Operator) 40%

The Licence was renewed effective 5 June 2008 for a further five year term following 33.3 percentage relinquishment of the original licence area. The current registered interests in PEL 91 are:

- GAOG 60%
- Beach Energy Limited (Beach) (Operator) 40%

Interests in the Udacha Block (Udacha Unit Area, PEL 91 and PEL 106), effective from 1 July 2010, were entered on the public register on 7 December 2010 as:

- GAOG 45%
- Beach 15%
- Drillsearch Gas Pty Limited 30%
- Rawson Resources Limited 10%

The original work commitments for the first renewal term of PEL 91 are detailed in Table 1.

Table 1 Original Work Program Commitments by Licence Year

Licence Year	Licence Dates	Minimum Work Program
Year 1 (firm)	5 June 2008 to 4 June 2009	Geological and Geophysical studies
Year 2	5 June 2009 to 4 June 2010	100km of 2D seismic acquisition Geological and Geophysical studies
Year 3	5 June 2010 to 4 June 2011	Geological and Geophysical studies
Year 4	5 June 2011 to 4 June 2012	Geological and Geophysical studies
Year 5	5 June 2012 to 4 June 2013	Geological and Geophysical studies Drill one well

A 12 month suspension of the work commitments was granted for the period 5 June 2011 to 4 June 2012 and an extension of the term of the licence for the corresponding period of the suspension.

The Licence carries the rights to one further renewal subject to the provisions of the Act.

Table 2 below details the current minimum work program and corresponding licence years. There have been no variations to the work program since the Licence renewal was awarded, hence the original commitments listed above also constitute the final work program.

Table 2 Final Work Program Commitments by Licence Year (last varied August 2011)

Licence Year	Licence Dates	Minimum Work Program
Year 1	5 June 2008 to 4 June 2009	Geological and Geophysical Studies
Year 2	5 June 2009 to 4 June 2012	100km of 2D seismic acquisition Geological and Geophysical Studies
Year 3	5 June 2010 to 4 June 2013	Geological and Geophysical Studies
Year 4	5 June 2011 to 4 June 2014	Geological and Geophysical Studies
Year 5	5 June 2012 to 4 June 2015	Geological and Geophysical Studies Drill one well

Table 3 summarises the work completed by the Joint Venture as at 4 June 2014. The minimum work commitments for the first renewal term have been exceeded.

Table 3 Work Program and Work Completed (to 4 June 2014) by Licence Year

Licence Year	Minimum Work Program	Work Completed
Year 1	Geological and Geophysical studies	Modiolus 3D seismic survey, plus Geological and Geophysical studies
Year 2	100km of 2D seismic acquisition Geological and Geophysical studies	Chiton-1 and Marino-1 exploration wells, plus Geological and Geophysical studies
Year 3	Geological and Geophysical studies	Hanson-1
Year 4	Geological and Geophysical studies	Snellings-1, Arno-1, Bauer-1, Bauer-2, Bauer-3, Bauer-4, Searcy-1, Basham-1. Undatus 2D , Aquillus 3D & Limbatus 3D
Year 5	Geological and Geophysical studies;	12 wells ⁽¹⁾ Caseolus 3D and Irus 3D
Year 6	Drill one well	13 wells ⁽²⁾

⁽¹⁾ Pennington-1, Kalladeina-2, Smoky-1, Sceale-1 and Congony-1 and Bauer-5, 6, 7, 8, 9, 10, Bauer North-1

⁽²⁾ Bauer-11, Chiton-2, Guichen-1, Pondalowie-1, Neaves-1, Chiton-3, Bales-1, Bauer-12, Bauer-13, Stunsail-1, Hardwicke-1, Pennington-2, Pennington North-1

2.1 Associated Activities Licences

Four AALs, granted as adjuncts to PEL 91, were active during the reporting period.

AAL 180 was originally granted on 20 August 2012 and varied on 15 March 2013 for the construction, maintenance and operation of the Bauer to Lycium oil pipeline. AAL 180 was renewed for a further 12 months and will expire on 19 August 2014.

AAL 188 was granted on 11 January 2013 for 12 months to allow for the acquisition of the Caseolus 3D seismic survey outside the area of PEL 91. The term of AAL 188 expired on 10 January 2014 without application for renewal.

AAL 197 was granted on 9 October 2013 for 12 months to allow for the acquisition of the Solidus 3D seismic survey in an area outside of PEL 91. No regulated activities were carried out in AAL 197 as at 4 June 2014.

AAL 198 was granted on 20 November 2013 for 12 months to allow for the acquisition of the Vermetus 2D seismic survey in an area outside of PEL 91. No regulated activities were carried out in AAL 188 as at 4 June 2014.

3 Regulated Activity

Pursuant to Regulations 33(2) (a), an Annual Report must include:

“a summary of the regulated activities conducted during the licence year.”

3.1 Seismic Data Acquisition

No new seismic surveys were acquired in PEL 91 during the reporting period. (Note - acquisition of Caseolus 3D seismic survey was completed on 14 June 2013 and was reported in the previous PEL 91 Annual Report which was submitted on 2 August 2013).

3.2 Seismic Data Processing / Reprocessing

Seismic data processing of both the Caseolus and Irus 3D surveys was completed during late 2013 - early 2014, with processing contracts awarded to GeoKinetics (Houston) and CGGVeritas (Perth), respectively.

The Caseolus data processing programme included an 88 km² data swathe from the legacy Aquillus 3D survey to the west and a 39 km² swathe from the Caseolus survey, to the east, so as to afford a seamless data tie between adjacent programmes.

Both volumes were fully processed to full-fold PSTM Stack stage and are currently being interpreted by the Operator. Additional data conditioning of the gathers of both datasets is currently ongoing, ahead of planned simultaneous seismic inversion of both the Caseolus and Irus volumes.

3.3 Drilling

Greater Bauer Field

Further appraisal and development drilling of the Bauer field was undertaken in the reporting period. Bauer-11 was drilled to further develop the Bauer oil field and provide additional structural control in the north of the field. The well intersected a 10 metre gross

column including 6 metres in the highly permeable Namur sandstone. The well was cased and suspended as a future oil producer.

Bauer-12 and Bauer-13 were drilled to further appraise and develop the Bauer oil field. Bauer-12 intersected a nine metre net oil column, with five metres of net oil pay within the highly productive Namur reservoir and the remaining four metres in the overlying McKinlay Member. Bauer-13 was designed to target the McKinlay/Namur reservoirs on the south east end of the field. Bauer-13 intersected a 13 metre oil column, with 8 metres of net oil pay within the highly productive Namur reservoir. Both Bauer-12 and 13 were cased and suspended as future oil producers.

Chiton-2, located updip of the Chiton-1 oil discovery was designed to appraise the Namur Sandstone and McKinlay Formation. Chiton-2 intersected a 5.5 metre gross oil column and was cased and suspended as a future Namur oil producer. Chiton-3 was drilled to appraise the northern extent of the Chiton oil field, 600 metres to the north of Chiton-2. The well intersected a 6.5 metre gross oil column with 3.5 metres of net oil pay within the highly productive Namur reservoir. Chiton-3 was cased and suspended as a future McKinlay/Namur oil producer.

Pennington Field

The Pennington oilfield was discovered in December 2012 and is located approximately nine kilometres due east of the Bauer oil production facility.

Pennington-2 was designed to appraise the McKinlay/Namur and mid-Namur reservoirs of the southern western flank of the Pennington Oil Field Pennington-1 oil discovery. The well was cased and suspended as a future Namur oil producer.

Pennington North-1 was drilled to test the Jurassic oil potential of a four-way dip, anticlinal structure located 0.75 km to the north of the Pennington-1 oil discovery. Pennington North-1 was cased and suspended as a future Birkhead oil producer.

Exploration Wells

A three well exploration campaign was undertaken to test the Birkhead Formation stratigraphic play based on interpretation of the Aquillus 3D seismic survey. Guichen-1, Pondalowie-1 and Neaves-1 validated the seismic model by intersected thick sequences of sandstone within the target Birkhead Formation, however all wells were plugged and abandoned after failing to intersect hydrocarbons.

Bales-1 was drilled as an exploration well targeting the McKinlay/Namur reservoir Sandstone formations. The well was plugged and abandoned after intersecting good quality reservoir with no oil column. Oil shows were detected in the secondary target Birkhead Formation, however, reservoir development at this level was absent.

Stunsail-1 exploration well discovered oil in stacked pay over the McKinlay/Top Namur, Mid-Namur and Birkhead reservoirs.

Hardwicke-1 exploration well was drilled targeting an anticlinal closure mapped at the Namur Sandstone level. Strong oil shows were recorded over the Birkhead Formation, the secondary target, although wireline logs indicated poor quality reservoir. The well was subsequently plugged and abandoned.

A summary of the wells drilled in PEL 91 during the reporting period is provided in below Table 4.

Table 4 Summary of Wells Drilled in PEL 91 in Licence Year 6

Well Name	Bauer-11
Type of well	Vertical oil development well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	18 July 2013
Status	Cased and Suspended
Rig release	26 July 2013
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Chiton-2
Type of well	Vertical oil appraisal well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	31 July 2013
Status	Cased and Suspended
Rig release	9 August 2013
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Guichen-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	13 August 2013
Status	Plugged and Abandoned
Rig release date	22 August 2013
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Pondalowie-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	26 August 2013
Status	Plugged and Abandoned
Rig release	3 September 2013
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Neaves-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	7 September 2013
Status	Plugged and Abandoned
Rig release	17 September 2013
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations

	in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Chiton-3
Type of well	Deviated oil appraisal well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	13 January 2014
Status	Cased and Suspended
Rig release	20 January 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Bales-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	24 January 2014
Status	Plugged and Abandoned
Rig release	2 February 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Bauer-12
Type of well	Vertical oil appraisal well

Contractor	Ensign International Energy Services – Rig 930
Date Spudded	7 February 2014
Status	Cased and Suspended
Rig release	15 February 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Bauer-13
Type of well	Vertical oil development well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	19 February 2014
Status	Cased and Suspended
Rig release	2 March 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Stunsail-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	8 March 2014
Status	Cased and Suspended
Rig release	30 March 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres

	from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.
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Well Name	Hardwicke-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	6 April 2014
Status	Plugged and Abandoned
Rig release	22 April 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Pennington-2
Type of well	Deviated oil appraisal well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	29 April 2014
Status	Cased and Suspended
Rig release	8 May 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

Well Name	Pennington North-1
Type of well	Vertical oil exploration well
Contractor	Ensign International Energy Services – Rig 930
Date Spudded	12 May 2014
Status	Cased and Suspended

Rig release	22 May 2014
Pad & Track construction	Earthworks for access and lease were carried out in accordance with the SEO for Drilling and Well Operations in SA Cooper Basin
Borrow Pit construction	Borrow pits are constructed in accordance with the SEO for Petroleum Production Operations in SA Cooper Basin which requires borrow pits to be sited at least 10 metres from all roads and 50 m from public roads. Rehabilitation will be undertaken in accordance with guidelines.

3.4 Well Completions and Production Testing

The Bauer Production Facility was expanded in two stages during the reporting period. The Stage 1 expansion involved the installation of Coriolis metering to enhance data quality and reservoir management, as well as the installation of an additional two dewatering tanks and two production tanks into the existing bunded production compound. The Stage 2 expansion will increase the oil/water separation capability from 33,000bfpd to 50,000bfpd and water processing pond system of 60,000bwpf. The expansion includes the construction of an additional 2 bunded and lined tank compounds (5 tank allotments per compound), the installation of three dewatering tanks and three production tanks, as well as a 500m long berm wall to increase the free form water evaporation disposal area.

Bauer -9, -10 and -11 were perforated, completed as single string free flow oil producers and connected into the Bauer Facility via above ground flowlines. Bauer -12, -13 and Bauer North-1 were perforated, completed as single string free flow oil producers and are currently shut in awaiting connection.

Chiton-2 was perforated, completed as a single string free flow oil producer and connected into the Chiton Facility via an above ground flowline. Chiton-3 was perforated, completed as a single string free flow oil producer and is currently shut in awaiting connection.

Congony-1, Kalladeina-2 and Sceale-1 were perforated, completed as single string free flow oil producers and are currently shut in awaiting facility completion.

Pennington-1 was recompleted as a dual zone free flow producer and is currently shut in awaiting facility completion.

The following wells were on extended production testing (EPT) during the reporting period.

- Bauer -1, -2, -3, -4, -5, -6, -7, -8, -9, 10 and -11
- Chiton-1 and -2
- Hanson -1

3.5 Flowlines / Pipelines

Four (4) new above ground flowlines were installed during the reporting period.

In order to avoid unnecessary flowline duplication, the new Bauer flowlines were connected into nearby Bauer wells with declining production and then the production is delivered into the facility via the existing wells flowline. The Bauer-9 flowline connects into the Bauer-5 wellhead manifold and is approx. 1100 metres long. The Bauer-10 flowline connects into the Bauer-7 wellhead manifold and is approx. 430 metres long. The Bauer-11 flowline connects into the Bauer-8 wellhead manifold and is approx. 345 metres long. All crude from the Bauer Facility is delivered by buried pipeline to the Lycium Processing Facility then into Moomba via the Lycium Moomba Flowline System.

The Chiton-2 flowline is approx. 800 metres long and connects into the Chiton Facility manifold. All crude transported from Chiton was trucked directly to either Lycium or Moomba.

Above-ground flowlines are installed in accordance with *Beach Design and Construct Procedure 08 – EUE Flowlines*. Standard procedure is to select routes which minimise disturbance to local vegetation during construction and to facilitate ongoing monitoring and inspections.

Environmental assessments are conducted by appropriately experienced personnel, which take into account the impacts to native vegetation and habitat prior to the construction of all flowlines. From an environmental perspective ‘above ground’ flowlines are very low impact because depending upon location they require very little, if any, clearing of native vegetation.

4 Compliance Issues

Pursuant to Regulations 33(2) (b) & (c), an Annual Report must include:

“a report for the year on compliance with the Act, these regulation, the licence and any relevant statement of environmental objectives,” and

“a statement concerning any action to rectify non-compliance with obligations imposed by the Act, these regulations or the licence, and to minimise likelihood of recurrence of any such non-compliances”.

4.1 Licence and Regulatory Compliance

There were cases during the current reporting period in which the PEL 91 Operator failed to submit reports in the required timeframe pursuant to Regulation 39 and Regulation 40 of the Petroleum and Geothermal Energy Regulations 2013 (the Regulations). A summary of

the non-compliances is provided in Table 5. With the exception of the incidents listed below, the PEL 91 licensee complied with the Act, the Regulations and the Licence.

Table 5- Regulatory non-compliances in Licence Year 6

Activity	Details of Non-Compliance	Rectification of Non-Compliance
Submission of Wireline logs	Regulation 39 – Late submission of logs	In some cases 2 week extensions of time were requested and granted. However, in some cases logs were over 1-2 months late. Ongoing discussions with contractors regarding resourcing issues
Submission of Well Completion Reports	Regulation 40 – Late submission of WCR submitted late	In some cases 2 week extensions of time were requested and granted. However, in some cases logs were over 1-2 months late. Ongoing discussions with contractors regarding resourcing issues

4.2 Compliance with Statement of Environmental Objectives (SEO)

4.2.1 Drilling

Drilling and well activities were undertaken in accordance with the *Statement of Environmental Objectives for Drilling and Well Operations (November 2009)* (the **Drilling SEO**).

A notice of non-compliance for a breach of the Drilling SEO was issued to PEL 91 licensee in relation to the spill of drilling mud at the Neaves-1 well site. The appropriate correction actions, including remediation of the site, were undertaken. The Department of State Development advised that no material harm was done and no further action was required.

A statement of compliance against all the Drilling SEO is provided in Appendix 1.

4.2.2 Production

Production activities (and borrow bit construction) were undertaken in accordance with the *Statement of Environmental Objectives for Petroleum Production Operations* (the **Production SEO**).

A statement of compliance against all the Production SEO is provided in Appendix 1.

4.3 Management System Audits

Pursuant to Regulation 33(2) (d) under the Act, an annual report must include:

“a summary of any management system audits undertaken during the relevant licence year including information on any failure or deficiency identified by the audit and any corrective actions that has, or will be taken”.

The following Management System audits and reviews were undertaken during the current reporting period:

Contractor Management

- A comprehensive review of Beach Energy’s contractor management processes, policies and governance arrangements was undertaken. As a result of this review there was a comprehensive suite of recommendations that are in the process of being implemented.

HSE Systems Audit

- An independent HSE Management Systems audit was conducted to measure the improvements and application of Beach’s HSE Management System over the previous 12 months. The results of this audit will assist in the continuous improvement of Beach’s HSE system. Recommendations assist with the establishment of next year’s HSE objectives.

Fit for Work

- The development of a Fit for Work policy and associated procedures has commenced.

Firefighting Capabilities

- An audit of the current firefighting capabilities and any associated possible fire risks within Beach’s Cooper Basin operations. The recommendations from this audit are being reviewed for implementation.

Ongoing Projects

- Updating of Incident Reporting and Management.
- Audits of the extent to which the Beach HSE standards are being “lived” to the levels expected of and required at Beach.

4.4 Report and Data Submissions

Pursuant to Regulation 33(2) (e) under the Act, an annual report must include:

“a list of all reports and data relevant to the operation of the Act generated by the licensee during the licence year”.

A list of the reports and data generated and samples submitted to Department of state Development in relation to the operations undertaken during the current reporting period for PEL 91 is provided in Table 6.

Table 6 - Reports and Data submitted to the Department of State Development

Quarterly Incident Reports (Regulation 32)

Report / Data	Date Due	Date Submitted	Compliant
2nd Quarter 2013	31 July 2013	31 July 2013	Compliant
3rd Quarter 2013	31 October 2013	31 October 2013	Compliant
4th Quarter 2013	31 January 2014	31 January 2014	Compliant
1st Quarter 2014	30 April 2014	30 April 2014	Compliant

Annual Reports (Regulation 33)

PEL 91 Licence Year 5	4 August 2012	2 August 2013	Complaint
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Geophysical Reports (Regulations 35, 36 & 37)

Limbatus 2D Interpretation Report	21 September 2013	26 August 2013	Compliant
Undatus 2D Interpretation Report	30 September 2013	26 August 2013	Compliant
Aquillus 3D Interpretation Report	30 September 2013	25 September 2013	Compliant
Irus 3D Geophysical Operations Report	31 January 2014 ⁽¹⁾	30 January 2014	Compliant
Irus 3D Data	31 January 2014 ⁽¹⁾	30 January 2014	Compliant

Wireline logs (Regulation 39)

Bauer-8 resubmission		21 June 2013	Compliant
Smoky-1	3 July 2013	26 July 2013	Non-Compliant
Sceale-1	17 July 2013	12 August 2013	Non-Compliant
Bauer-10	14 August 2013	12 August 2013	Compliant
Congony-1	19 August 2013	12 August 2013	Compliant

Bauer-11	20 September 2013	24 September 2013	Non-Compliant
Chiton-2	4 October 2013	24 October 2013	Non-Compliant
Guichen-1	17 October 2013	24 October 2013	Non-Compliant
Pondalowie-1	29 October 2013	13 November 2013	Non-Compliant
Neaves-1	12 November 2013	8 November 2013	Compliant
Chiton-3	19 March 2014	2 June 2014	Non-compliant
Bales-1	5 April 2014	24 July 2014	Non-compliant
Bauer-12	13 April 2014	13 June 2014	Non-compliant
Bauer-13	26 April 2014	2 June 2014	Non-compliant
Stunsail-1	25 May 2014	23 June 2014	Non-compliant

Cased Hole Logs (SBT-GR-CCL)

Bauer-9	21 July 2013 ⁽¹⁾	10 July 2013	Compliant
Bauer-9	24 April 2014 ⁽¹⁾	24 April 2014	Compliant
Pennington-1	15 July 2013	15 July 2013	Compliant
Bauer-10	8 August 2013	15 July 2013	Compliant
Bauer-11	11 October 2013	10 October 2013	Compliant
Chiton-2	4 November 2013	10 October 2013	Compliant
Kalladeina-2	5 November 2013	10 October 2013	Compliant
Congony-1	6 November 2013	10 October 2013	Compliant
Sceale-1	7 November 2013	10 October 2013	Compliant

Well Completion Reports (Regulation 40) ⁽³⁾

Pennington-1	4 June 2013	5 August 2013	Non-Compliant
Kalladeina-2	22 October 2013	24 October 2013	Compliant
Smoky-1	8 November 2013	24 February 2014	Non-Compliant
Sceale-1	6 December 2013	28 February 2014	Non-Compliant
Bauer-10	3 December 2013	5 February 2014	Non-Compliant
Congony-1	12 December 2013	28 February 2014	Non-Compliant
Bauer-11	26 January 2014	24 February 2014	Non-Compliant
Chiton-2	9 February 2014	24 February 2014	Non-Compliant
Guichen-1	22 February 2013	28 February 2013	Non-Compliant
Pondalowie-1	3 March 2014	19 March 2014	Non-Compliant
Neaves-1	17 March 2014	11 March 2014	Compliant

Well Samples (Regulation 48)

Pennington-1	4 June 2013	18 July 2013	Compliant
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Kalladeina-2	8 October 2013	24 October 2013	Compliant
Smoky-1	8 November 2013	31 July 2013	Compliant
Sceale-1	22 November 2013	5 December 2013	Compliant
Bauer-10	3 December 2013	16 December 2013	Compliant
Congony-1	12 December 2013	2 January 2014	Compliant
Bauer-11	26 January 2014	3 February 2014	Compliant
Chiton-2	9 February 2014	27 February 2014	Compliant
Guichen-1	22 February 2014	28 February 2014	Compliant
Pondalowie-1	3 March 2014	25 March 2014	Compliant
Neaves-1	17 March 2014	25 March 2014	Compliant

Quarterly Cased Hole Well Activity Report (Regulation 41)

2nd Quarter 2013	31 July 2013	31 July 2013	Compliant
3rd Quarter 2013	31 October 2013	28 October 2013	Compliant
4th Quarter 2013	31 January 2014	31 January 2014	Compliant
1st Quarter 2013	30 April 2014	30 April 2014	Compliant

Down Hole Diagrams (Regulation 44)

Sceale-1	7 November 2013	10 October 2013	Compliant
Kalladeina-2	5 November 2013	10 October 2013	Compliant
Congony-1	6 November 2013	10 October 2013	Compliant
Chiton-2	4 November 2013	10 October 2013	Compliant
Bauer-11	11 November 2013	10 October 2013	Compliant
Bauer-9	21 July 2013	15 July 2013	Compliant
Pennington-1	15 July 2013	15 July 2013	Compliant
Bauer-10	8 August 2013	15 July 2013	Compliant

Production Reports (Regulation 45)

April 2013	30 June 2013	30 June 2013	Compliant
May 2013	31 July 2013	31 July 2013	Compliant
June 2013	31 August 2013	31 August 2013	Compliant
July 2013	30 September 2013	30 September 2013	Compliant
August 2013	31 October 2013	31 October 2013	Compliant
September 2013	30 November 2013	30 November 2013	Compliant
October 2013	31 December 2013	31 December 2013	Compliant

November 2013	31 January 2014	31 January 2014	Compliant
December 2013	28 February 2014	28 February 2014	Compliant
January 2014	31 March 2014	31 March 2014	Compliant
February 2014	30 April 2014	30 April 2014	Compliant
March 2014	31 May 2014	31 May 2014	Compliant

- (1) Extension of time for submission
- (2) Well Samples (cuttings) at Challenger within 6 months but delivered late to core library. Department of state Development advise that if samples are at Challenger, it is considered complaint under Regulation 40.
- (3) Well completion report includes well test analysis report (Regulation 42) and Petroleum reservoir fluid analysis reports (Regulation 43) where applicable

4.5 Incidents

Pursuant to Regulation 33(2) (f), an annual report must include:

“in relation to any incidents reported to the Minister under the Act and these Regulations during the relevant licence year –

- (i) an overall assessment and analysis of the incidents, including the identification and analysis of any trends that have emerged; and*
- (ii) an overall assessment of the effectiveness of any action taken to rectify non-compliance with obligations imposed by the Act, these regulations or the licence, or to minimise the risk of recurrence of any such non-compliance.*

There were no serious incidents during the reporting period. A serious incident is defined in section 85(1) of the Act.

During the reporting period, six incidents were formally reported to Department of State Development through quarterly compliance reporting and are summarised below. A reportable incident is defined in section 85(1) and regulation 32 of the Act.

Table 7 - List of Reportable Incidents in PEL 91 during Licence Year 6

Location	Incident	Root Cause	Rectification
Hardwicke-1 well site	Spill (diesel)	Design	Contaminated material removed
Road to Moomba	Spill (crude oil)	Monitoring and Maintenance	Truck Maintenance

Ray's Waterbore	Spill (diesel)	Work Practice	Use of bunding
Bauer-11 well site	First aid	Monitoring and Maintenance	Develop Standard Operating Procedure
Guichen-1 well site	Spill (septic tank)	Monitoring and Maintenance	Replace faulty equipment
Neaves-1 well site	Spill (drilling mud)	Design	Optimise design of sumps

4.6 Threat Prevention

Pursuant to Regulation 33(2) (g) under the Act, an annual report must include:

“a report on any reasonably foreseeable threats (other than threats previously reported on) that reasonably present, or may present, a hazard to facilities or activities under the licence, and a report on any corrective action that has, or will be taken”.

There are no foreseeable threats to the proposed exploration activities for PEL 91, other than the disruptive influence of occasional flooding of the Cooper Creek or abnormally high rainfalls in the basin itself.

Flooding events in the headwaters of the Cooper Creek are closely monitored by satellite surveillance to predict well in advance the time of their arrival in the PEL 91 area. Drilling schedules will continue to be amended accordingly.

4.7 Future Work Program

Pursuant to Regulation 33(2) (h) under the Act, an annual report must include:

“unless the relevant licence year is the last year in which the licence is to remain in force – a statement outlining operations proposed for the ensuing year”.

The Joint Venture intends to drill additional exploration wells delineated from the recent seismic surveys.

Appraisal/development wells will also be drilled to further understand the extent of the new PEL 91 fields. The development of PEL 91 oil fields will also be progressed with construction of flowlines and facilities.

5 Statement of Expenditure

Pursuant to Regulation 33(2) (h) under the Act, an annual report must contain:

“An annual report must be accompanied by a statement of expenditure on regulated activities conducted under the licence for the relevant licence year”

The Expenditure Statement for Licence Year 6 of the first renewal term is presented as Appendix 2.

APPENDIX 1

Compliance with the SEO for Drilling and Well Operations PEL 91 Licence Year 6 of First Renewal Term

Beach’s strategies for achieving each of the SEO objectives during drilling and well operations well are outlined in Table below.

Note: The Santos SEO for Drilling and Well Operations has been adopted by Beach Energy Limited for its Drilling and Well Operations in the South Australian sector of the Cooper Basin. References to 'Appendix 1 Table A2' and 'Appendix 1 Table A3' refer to tables included in Santos' "South Australia Cooper Basin Statement of Environmental Objectives: Drilling and Well Operations November 2009"

Table A1-1 SEO for Cooper Basin Drilling Operations			
Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 1:</u> Minimise risks to the safety of the public and other third parties.</p>	<p>Reasonable measures implemented to ensure no injuries or health risks to the public or to third parties.</p>	<p>Compliant</p>	<p>Communication of all potential hazards to safety associated with drilling and other well site operations including the rig move to all affected parties, prior to the commencement of such activities. Beach maintained regular contact with the landholder and associated stakeholders during drilling operations.</p> <p>The design and operation of the PEL 91 activities was undertaken in accordance with Beach safety policies, standards and guidelines. All employees visiting or working on the Ensign 930 rig undertook a safety induction prior to commencing work in the field and will undertake a refresher course if/when required. Beach's Permit to Work System was in operation during drilling operations to control potentially dangerous situations.</p>

		<p>Appropriate Personal Protective Equipment (PPE) was issued to all personnel involved in the drilling operations. Accident / incident reporting systems were in place as defined in the Beach Drilling Operation Manual. Records are reviewed regularly to assess trends.</p> <p>Beach Safety Management Plans are updated and reviewed on a regular basis. The Beach Emergency Response System which includes; Emergency Management Manual, Site Emergency Response Plans and Emergency Management Initial response guidelines were reviewed during 2009 with documentation being updated to meet the changing roles and responsibilities in the organisation.</p> <p>Signage was erected along the access road to advise that only authorised personnel are permitted on to the well site.</p>
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Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 3</u></p> <p>Avoid the introduction or spread of pest plants and animals and implement control measures as necessary.</p>	<p>No weeds or feral animals are introduced to, or spread in, operational areas as a consequence of activities.</p>	<p>Compliant</p>	<p>Rigs and associated equipment is washed down prior to entering and leaving different state borders as per Beach Policy.</p>
<p><u>Objective 4</u></p> <p>Minimise disturbance to drainage patterns and avoid contamination of surface waters and shallow ground resources</p>	<p><u>Well Lease and Access Track Construction</u> Well sites and access tracks are located and constructed to maintain pre-existing water flows (i.e. channel contours are maintained on floodplains and at creek crossings).</p> <p><u>Drilling Mud Sumps and Flare Pits</u> No overflow of drill cuttings, muds and other drilling fluids from mud sumps. No waste material disposal to sumps and flare pits.</p> <p><u>Well Heads (Oil and Gas Systems)</u> No leaks/spills outside of areas designed to contain them.</p>	<p>Compliant</p> <p>Compliant</p> <p>Compliant</p>	<p>The drill pads and access track for PEL 91 wells were constructed and located to avoid the possibility of flood waters being diverted from their natural direction of drainage in the event of local inundation.</p> <p>All drill cuttings, muds, and non toxic drill fluids were contained within designated mud sumps with adequate freeboard at the completion of operations to allow for a 1m cover of clean fill at remediation.</p>

	<p><u>Well Blowdown/Production Testing</u> No water (surface or groundwater) contamination as a result of production testing or well blowdown operations.</p> <p><u>Fuel/Chemical Storage and Handling</u> No water (surface or groundwater) contamination as a result of fuel or chemical storage and handling.</p> <p><u>Waste Management</u> Refer to Assessment Criteria for Objective 11.</p>	<p>Compliant</p> <p>Compliant</p> <p>Compliant</p>	<p>Although there was non-compliances with regard to fuel and chemical spills, the spill did not affect surface waters and shallow ground water resources.</p> <p>Beach's Oil Spill Contingency Plan is included in Beach's Emergency Response Plan.</p> <p>Waste was removed from the well site. Bins are covered to prevent access by wildlife and prevent spread of rubbish by wind.</p> <p>Non-putrescible waste material (including hazardous material) was stored safely on site for later removal to an EPA approved disposal facility.</p>
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Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 5</u></p> <p>Avoid disturbance to sites of cultural and heritage significance</p>	<p>Proposed well sites and access tracks have been surveyed and any sites of Aboriginal and non-Aboriginal heritage identified.</p> <p>Any identified cultural and heritage sites have been avoided.</p> <p><i>Note:</i> <i>Where a negotiated agreement or determination for heritage clearance is in place, compliance with the negotiated agreement or determination takes precedence over the above criteria.</i></p>	<p>Compliant</p>	<p>Beach has an agreement with the Dieri Native Title Claimant group which specifies the requirements for scouting proposed well sites and access tracks to identify and avoid areas of heritage value and archaeological significance.</p> <p>Joint site visits were carried out with Dieri Native Title Claimant group. The proposed drilling location and access route were agreed and given heritage clearance for activities within PEL 91</p> <p>Areas of significance were recorded and marked as exclusion zones.</p>
<p><u>Objective 6</u></p> <p>Minimise loss of aquifer pressure and avoid aquifer contamination</p>	<p><u>Drilling & Completion Activities</u></p> <p>There is no uncontrolled flow to surface (blow out).</p> <p>Sufficient barriers exist in casing annulus to prevent crossflow between separate aquifers or hydrocarbon reservoirs.</p> <p>Relevant Government approval obtained for abandonment of any radioactive tool left downhole.</p>	<p>Compliant</p>	<p>The Drilling Programs for wells were designed to ensure minimal loss of reservoir and aquifer pressures and minimal contamination of freshwater aquifers.</p> <p>Wells have been either been cased from total depth to surface or plugged and abandoned.</p> <p>Competent cement bonds between aquifers encountered by the well bores and the Namur Sandstone hydrocarbon reservoir were established.</p> <p>Monitoring programs will be implemented to assess future behind casing cross-flow.</p>

	<u>Producing, Injection, Inactive and Abandoned Wells</u> No cross-flow behind casing between aquifers, and between aquifers and hydrocarbon reservoirs unless approved by DWLBC.	Compliant	
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Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 8</u></p> <p>Minimise air pollution and greenhouse gas emissions.</p>	<p>Compliance with EPA requirements.</p>	<p>Compliant</p>	<p>Open hole testing was undertaken. Emissions are not considered to be material.</p>
<p><u>Objective 9</u></p> <p>Maintain and enhance partnerships with the Cooper Basin community.</p>	<p>No unresolved reasonable complaints from the community.</p>	<p>Compliant</p>	<p>Beach maintained regular contact with the landholder and associated stakeholders prior to, and while undertaking well operations.</p>

**Compliance with the SEO for Cooper Basin Petroleum Production Operations (Nov 2009)
 PEL 91 Licence Year 6 of First Renewal Term**

Beach’s strategies for achieving each of the SEO objectives during the production testing in PEL 91 Fields (Chiton, Hanson, Bauer) and construction of borrow pits are outlined in Table below.

Table A1-3 SEO for Cooper Basin Production and Processing Operations			
Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<u>Objective 1</u> To avoid unnecessary disturbance to 3 rd party infrastructure, landholders or land use	Where disturbance is unavoidable or accidental, infrastructure or land use is restored to as is reasonably appropriate to the original undisturbed condition or as agreed with the landholder No unresolved reasonable landholder / 3 rd party complaints Landholder activities not restricted or disturbed as a result of activities unless by prior arrangement.	Compliant	Rehabilitation of production sites will be undertaken in consultation with the landholder when activities cease. PEL 91 fields are located within Clifton Hills Pastoral Lease. Regular liaison with landholders provides advance warning of any significant developments or activities.

<p><u>Objective 2</u> To maintain soil stability / integrity</p>	<p>The extent of soil erosion is consistent or less than surrounding land.</p> <p>Vegetation cover is consistent with surrounding land</p> <p>No evidence of significant subsoil on surface (colour).</p> <p>No production activities undertaken on salt lakes, steep tableland land systems or wetlands land systems (as defined in the EIR)</p> <p>Abandoned areas (e.g. borrow pits) are remediated and rehabilitated to be reasonably consistent with the surrounding area</p> <p>0, +1 or +2 GAS criteria for borrow pit construction and rehabilitation are attained (Appendix B)</p>	<p>Compliant</p>	<p>Disturbance was minimised and restricted to the existing well leases.</p> <p>No significant erosion has been reported either at the facilities or along the access roads. Topsoil was stockpiled when the sites were originally cleared for the drilling operations.</p> <p>None of the PEL 91 fields are located on or within salt lakes, steep tableland areas or wetlands.</p> <p>All vehicle movements are restricted to the designated access roads and lease areas. The production site and access tracks are located both in a dunefield environment and a floodplain environment and production activities are carefully controlled to minimise impact on these areas.</p> <p>Clay surfaces on the access roads minimise disturbance to the soil beneath.</p> <p>Rehabilitation of the production sites and access tracks will be undertaken in consultation with the landowner when production ceases.</p> <p>Borrow pits will be remediated and rehabilitated to be reasonably consistent with the surrounding topography.</p>
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<p><u>Objective 3</u></p> <p>To minimise disturbance to native vegetation</p>	<p>Species abundance and distribution on the reinstated areas was consistent with the surrounding area Note: assessment of the consistency with surrounding areas will take into account that regrowth is a time and rainfall dependent process</p> <p>0, +1 or +2 GAS criteria for borrow pit construction and rehabilitation are attained (Appendix B).</p> <p>Vegetation clearing is limited to previously disturbed areas or areas assessed to be of lowest sensitivity.</p> <p>No rare, vulnerable or endangered flora removed without appropriate permits</p> <p>No production activities undertaken on salt lakes, steep tableland land systems or wetlands land systems (as defined in the EIR)</p> <p>Significant environmental benefit obligation satisfied / implemented.</p> <p>Native fauna casualties are restricted to as low as reasonably practical.</p> <p>Work in aquatic habitats has been approved by DMITRE.</p>	<p>Compliant</p>	<p>The sites will be restored according to industry standards (e.g. SEO, PIRSA (2009) Field Guide for the Environmental Assessment of Abandoned Petroleum Wellsites in the Cooper Basin, South Australia).</p> <p>The existing well lease will be used as far as practicable.</p> <p>No significant or priority 1 vegetation will be removed. Where possible, areas with low vegetation density were utilised. Minor vegetation clearing was undertaken during the reporting period for the establishment of both temporary and permanent access tracks, facilities and accommodation camps.</p> <p>No salt lakes, steep tableland land systems or wetlands land systems are impacted.</p> <p>Existing borrow pits will be used in preference to new borrow pits where feasible and rehabilitation will be in accordance with GAS criteria.</p> <p>On application and grant of PLs, earthworks pertaining to production activity will be incorporated into Beach Energy's ongoing commitments for SEB.</p> <p>No work undertaken in aquatic habitats</p>
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Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 4</u></p> <p>To prevent the introduction or spread of weeds, pathogens and pest fauna</p>	<p>The presence of weeds and pathogens is consistent with or better than adjacent land</p> <p>No new outbreak or spread of weeds reported</p>	<p>Compliant</p>	<p>No new outbreak or spread of weeds reported.</p>
<p><u>Objective 5</u></p> <p>To minimise the impact of the production operations on water resources</p>	<p>For excavations, surface drainage profiles area restored to be as reasonably consistent with surrounding area as possible.</p> <p>For existing easements, drainage is maintained similar to pre-existing conditions.</p> <p>Volume of water produced is recorded.</p> <p>No uncontrolled flow to the surface (i.e. no free flowing bores)</p> <p>Note: the “Cooper Basin Drilling and well Operations” SEO provides detail on aquifer issues.</p>	<p>Compliant</p>	<p>Production testing at PEL 91 wells had no impact on surface drainage</p>

<p><u>Objective 6</u></p> <p>To avoid land or water contamination</p>	<p>No evidence of any spills or leaks to areas not designated to contain spills</p> <p>In the event of a spill, the spill was:</p> <p>Contained Reported Cleaned-up Cause investigated and corrective and/or preventative action implemented</p> <p>Compliance with the Environment Protection Act, Australian Standard 1940 and the Australian Dangerous Goods Code.</p> <p>Contamination restricted to known areas and remediation strategies investigated and implemented where practical. Level of hydrocarbon contamination continually decreasing, ultimately to meet Environment Protection Authority (EPA) guidelines</p> <p>No evidence of rubbish or litter on easements or at facilities.</p>	<p>Compliant</p>	<p>No spills or contamination occurred during production testing at PEL 91 fields</p>
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Objective	Assessment Criteria	Compliant / Non-compliant	Comments
Objective 6 (Continued):	<p>No evidence that waste material is not contained and disposed of in accordance with Beach approved procedures.</p> <p>Evidence of waste tracking certificates for prescribed wastes.</p> <p>Evidence of compliance with any waste disposal licence conditions (e.g. EPA permits)</p>	Compliant	All waste material has been and continues to be disposed of in accordance with Beach approved procedures.
	No evidence of impacts to soil, water and vegetation as a result of water disposal (i.e. soil erosion, dead vegetation, water discoloration)	Compliant	All water continues to be disposed of in accordance with Beach approved procedures.

Objective	Assessment Criteria	Compliant / Non-compliant	Comments
Objective 6 (Continued):	<p>No evidence of non-compliance with local or state government regulations</p> <p>Water monitoring results indicated levels of Total Petroleum Hydrocarbons (TPH) below 30mg/L in banded holding ponds and 10mg/L in banded and / or freeform evaporation ponds</p> <p>No evidence of overflow of product from interceptor pit.</p> <p>No evidence of hydrocarbon contamination immediately adjacent to banded ponds</p> <p>Periodic reports as required detail quantity, level of contamination and proposed ongoing operation of the Land</p> <p>Treatment Unit.</p>		

Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 8</u></p> <p>To minimise impact of emergency situations</p>	<p>Emergency response procedures are effectively implemented in the event of an emergency</p> <p>Emergency response exercises are aligned with credible threats and consequences identified in the risk assessment</p> <p>Refer to previous criteria (Objective 1, 2, 3 & 6)</p>	<p>Compliant</p>	<p>No emergency situations arose in PEL 91 fields</p> <p>Beach's HSE system includes periodic simulation of Emergency situations at production facilities.</p>
<p><u>Objective 9</u></p> <p>To minimise noise due to operations</p>	<p>Operational activities have taken reasonable practical measures to comply with noise regulations, under the Environment Protection Act 1993</p> <p>No unresolved reasonable complaints.</p>	<p>Compliant</p>	<p>All PEL 91 fields are located in remote areas away from dwellings. No noise issues or complaints from production activities.</p>

Objective	Assessment Criteria	Compliant / Non-compliant	Comments
<p><u>Objective 10</u></p> <p>To minimise atmospheric emissions</p>	<p>Reasonable practical measures implemented in design and operation to minimise emissions</p> <p>Annual Report includes atmospheric emissions data</p> <p>No reasonable complaints received</p> <p>No dust related injuries recorded</p>	<p>Compliant</p>	<p>Production testing was undertaken in accordance with appropriate industry accepted standards.</p> <p>PEL 91 fields are oil producers. Production testing in PEL 91 has minimal impact on emissions.</p> <p>Atmospheric emissions are being reported on a financial year basis as part of Beach's obligations under the <i>National Greenhouse and Energy Reporting Act</i> (NGER).</p> <p>No complaints/injuries received.</p>
<p><u>Objective 11</u></p> <p>To adequately protect cultural heritage sites and values during operations and maintenance</p>	<p>Proposed construction areas and access tracks surveyed by relevant cultural heritage group</p> <p>Any new sites identified are recorded and reported to appropriate authority</p> <p>No impact to identified sites</p>	<p>Compliant</p>	<p>Beach has an agreement with Dieri Native Title Claimant group which specifies the requirements for scouting proposed well sites and access tracks to identify and avoid areas of heritage value and archaeological significance.</p> <p>Joint site visits were carried out with the Dieri Native Title Claimant group. The proposed facilities and access route were agreed and given heritage clearance for activities within PEL 91</p> <p>Areas of significance were recorded and marked as exclusion zones.</p>