

# **Annual Report**

# **Petroleum Exploration Licence (PEL) 494**

Otway Basin, South Australia

Term 2 Licence Year 2 12 November 2016 to 23 March 2018

Distribution: Department of Energy and Mining, South Australia

May 2018

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#### 1 Introduction

Petroleum Exploration Licence 494 (**PEL 494**) was granted on 24 March 2009. The Licence is located in the onshore Otway Basin, South Australia over an area of approximately 1,274.81 square km.

The Annual Report for PEL 494 details the work conducted during Term 2 Licence Year 2 which corresponds to the period 12 November 2016 to 23 March 2018.

This Annual Report has been prepared in accordance with the requirements of Regulation 33 of the Petroleum and Geothermal Energy Act 2000 (the Act).

## 2 Licence Summary

PEL 494 was originally awarded to Adelaide Energy Limited, 100% interest, effective from 24 March 2009 for an initial term of five years. PEL 494 was renewed for a second term effective from 24 March 2015.

PEL 494 was suspended for a period of 12 months commencing from 1 March 2016. The suspension was temporarily lifted for 2 days from 11 to 12 April 2016, 3 days from 21 to 23 September 2016, 7 days from 25 to 31 October 2016, 30 days from 1 to 30 November 2016 and 4 days from 27 March 2017 to 30 March 2017 to allow for rehabilitation work at Jolly-1. The licence suspension ended on 15 April 2017.

As a result of the licence suspension, the expiry date of the licence term was 23 March 2021.

A suspension of the work commitment under licence condition one for PEL 494 was granted for 12 months commencing on 24 March 2018 and an extension of the term of the licence was granted for the corresponding period of the suspension. The licence year 2 work commitment is to be completed by March 2019. The expiry date for the 1<sup>st</sup> renewal term is 23 March 2022.

The licence summary is provided in the below table.

Licence Year	Anniversary of Licence Year	Work Program Period	Licence Commitments
1	24 Mar 2015 – 11 Nov 2016	24 Mar 2015 - 11 Nov 2016	G & G studies
2	12 Nov 2016 – 23 Mar 2018	12 Nov 2016 - 23 Mar 2019	G & G studies; Drill 1 well
3	24 Mar 2018 – 23 Mar 2019	24 Mar 2018 - 23 Mar 2020	G & G studies (contingent)
4	24 Mar 2019 – 22 Mar 2020	22 Mar 2019 - 23 Mar 2021	G & G studies; 100km <sup>2</sup> 3D seismic; (contingent)
5	23 Mar 2020 – 23 Mar 2021	24 Mar 2020 - 23 Mar 2022	G & G studies (contingent)
6 (ext)	24 Mar 2021 – 23 Mar 2022		

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## 3 Regulated Activities

Pursuant to Regulations 33(3)(a) An annual report must include -

"a summary of the regulated activities conducted under the licence during the year"

Final wellhead removal of Jolly 1 ST1, to below original ground level, was undertaken in December 2017. The well cellar and access track were remediated to landholder requirements.

## 4 Compliance Issues

Pursuant to Regulations 33(3)(b) & (c) An annual report must include -

"a report for the year on compliance with the Act, these regulations, 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 the likelihood of recurrence of any such non-compliances."

#### 4.1 Licence and Regulatory Compliance

There were no instances of non-compliance with the Act, the Petroleum and Geothermal Energy Regulations 2013 (Regulations) or the Licence Conditions for PEL 494 during this reporting period.

#### 4.2 Compliance with Statement of Environmental Objectives (SEO)

The licensee complied with the Beach Energy Statement of Environmental Objectives, Drilling, Completion and Initial Production Testing in the Otway Basin, South Australia, November 2013, during the current reporting period. A summary of compliance with the SEO is provided in Appendix 1.

## 5 Management System Audits

Pursuant to Regulation 33(3)(d) 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".

No management system audits specific to PEL 494 were undertaken during the licence year.

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## 6 Report and Data Submissions

Pursuant to Regulation 33(3)(e)(i) 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".

Annual Report (Regulation 33)				
Description of Report / Data	Date Due	Date Submitted	Compliant	
PEL 494 Annual Report Term 2 Year 1	11 January 2017	5 January 2017	Yes	
PEL 494 Annual Report Term 2 Year 1 resubmission	9 March 2017	2 March 2017	Yes	

Quarterly Incident Reports (Regulation 32)			
Description of Report / Data	Date Due	Date Submitted	Compliant
Quarterly Incident Report Q2 2017	23 July 2017	3 July 2017	Yes
Quarterly Incident Report Q3 2017	30 October 2017	30 October 2017	Yes
Quarterly Incident Report Q4 2017	31 January 2018	31 January 2018	Yes

Quarterly Cased Hole Reports (Regulation 41)				
Description of Report / Data	Date Due	Date Submitted	Compliant	
Quarterly Cased Hole Report Q2 2017	23 July 2017	3 July 2017	Yes	
Quarterly Cased Hole Report Q3 2017	31 October 2017	31 October 2017	Yes	
Quarterly Cased Hole Report Q4 2017	31 January 2018	31 January 2018	Yes	

#### 7 Incidents

Pursuant to Regulation 33(3)(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".

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

There were no reportable incidents during the reporting period. A reportable incident is defined in section 85(1) and Regulation 32 of the Act.

#### 8 Threat Prevention

Pursuant to Regulation 33(3)(g) 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 were no new threats to report within PEL 494 during the reporting period.

## 9 Future Work Program

Pursuant to Regulation 33(3)(h) 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".

Pursuant to Regulation 33(3)(j) An annual report must include -

"in the case of a production licence - an assessment of the development activities proposed to be undertaken under the licence, including the number of completion reports that are expected to occur, during the ensuing licence year, or such longer period as the Minister may require".

Future work for PEL 494 will be preparing for and drilling Dombey-1 conventional gas exploration well.

## **10 Expenditure Statement**

Pursuant to Regulation 33(4)

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

Please refer to Appendix 2 for the expenditure statement for the current reporting period.

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#### **APPENDIX 1**

# Compliance with Statement of Environmental Objectives Drilling, Completion and Initial Production Testing in the Otway Basin, South Australia (Beach Energy 2013)

	Table A1 SEO for Drilling and Well Operations			
Objective	SEO Assessment Criteria	Compliance	Findings/Comments	
1. Avoid disturbance to sites of cultural and heritage significance	No disturbance to Aboriginal and non-indigenous heritage sites	Compliant	No heritage sites have previously been identified at well sites during pre-drilling site assessments.	
2. Minimise	Well site and Access Track Construction		Well sites and access are located in cultivated paddocks or previously	
disturbance to native vegetation and native fauna	Any sites of rare, vulnerable or endangered species or threatened communities have been identified, flagged and subsequently avoided.	Not applicable	disturbed forestry areas to avoid or minimise disturbance to native vegetation and fauna.	
(including wetland communities)	High quality or significant remnant vegetation has not been cleared.			
communica	Activities are not carried out in parks or reserves established under the National Parks and Wildlife Act.			
	No significant adverse impacts on native fauna through any stage of construction, drilling or production testing.			
	<u>Drilling and Production Testing Activities</u>			
	No fires during drilling and production activities.			
	Fuel and Chemical Storage and Handling			
	Refer to Assessment Criteria for Objective 4.			
	Waste Management			
	Refer to Assessment Criteria for Objective 10.			

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Table A1 SEO for Drilling and Well Operations			
Objective	SEO Assessment Criteria	Compliance	Findings/Comments
3. Avoid the introduction and spread of weeds, exotic pest fauna and pathogens	Weeds, exotic pest fauna and pathogens are not introduced into, or spread in, operational areas as a consequence of activities.	Compliant	Local contractors and machinery utilised to undertake earthworks activities.
4. Minimise	Well Site and Access Track Construction and Restoration		Rehabilitation activities undertaken to restore pre-existing soil profiles.
disturbance and avoid	No disturbance to soil profiles resulting from activities remains after restoration.	Compliant	No reported incidents of spills associated with rehabilitation works.
contamination of soil	Local erosion rates are not significantly accelerated above those of surrounding land.	Compliant	
	No significant increase of limestone on surface following restoration.	Compliant	
	<u>Drilling and Production Testing Activities</u>		
	No soil contamination as a result of drilling and production testing activities.	Not Applicable	
	Fuel and Chemical Storage and Handling		
	Soil in areas affected by any spill is removed and / or bioremediated.	Not Applicable	
	No soil contamination as a result of fuel and chemical storage and handling.		
	Waste Management	Compliant	
	Refer to Assessment Criteria for Objective 10.		
5. Minimise loss of reservoir and	No aquifer contamination as a result of drilling, completion or production testing activities.	Compliant	Competent cement bonds (plugs) between aquifers encountered by the well bore were established during the abandonment of the well.
aquifer pressures and avoid aquifer	No impact on other groundwater users due to water extraction activities.	Not Applicable	Obsolete water monitoring bores are removed.
contamination	<b>Drilling and Completion Activities</b>	Not Applicable	
	No uncontrolled flow to surface (e.g. blow out).	. 10t Applicable	
	Sufficient barriers exist in casing annulus to prevent		

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Table A1 SEO for Drilling and Well Operations				
Objective	SEO Assessment Criteria	Compliance	Findings/Comments	
	crossflow between separate aquifers or hydrocarbon reservoirs.  Production Testing and Well Abandonment Activities  No cross-flow behind casing between aquifers, and between aquifers and hydrocarbon reservoirs unless approved by the department responsible for Water (currently DEWNR).	Compliant		
6. Minimise disturbance to drainage patterns and avoid contamination of	Well Lease and Access Track Construction and Restoration  No disruption to drainage patterns as a result of construction activities.  Drilling and Production Testing  No overflow of drill cuttings, muds and other drilling fluids	Compliant	No spill reported during the reporting period.	
surface waters and shallow groundwater resources	from mud sumps.  No contamination of surface waters and shallow groundwater resources as a result of drilling and initial production testing activities.	Not Applicable		
	Fuel and Chemical Storage and Handling  No contamination of surface waters and shallow groundwater resources as a result of fuel or chemical storage and handling.  Waste Management	Compliant		
	Refer to Assessment Criteria for Objective 10.			
7. Minimise risks to the health and safety of the public, employees and other third parties	No injuries to the public or third parties as a result of drilling, completion and production testing activities.	Compliant		

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Table A1 SEO for Drilling and Well Operations				
Objective	SEO Assessment Criteria	Compliance	Findings/Comments	
8. Minimise the	Well site maintained in a clean and tidy condition.			
visual impact of operations	Restored well site contours and colour blend with the surroundings.	Compliant		
9. Minimise disturbance to	No adverse impact (outside agreed disturbance / compensation areas) on land use as a result of activities.	Compliant	All reasonable concerns addressed	
the local community and	No reasonable concerns raised by stakeholders are left unresolved.	Compliant		
other land users	No uncontrolled fires initiated during construction, drilling or rehabilitation.	Compliant		
10. Minimise the impact on the	No soil, surface water or ground water contamination as a result of waste storage and disposal.	Not Applicable	No camps or waste storage associated with current activities	
environment of	All waste disposal is at an EPA licensed facility.	• •		
waste storage, handling and	No uncontained domestic waste on site.			
disposal	Wastewater (sewage and grey water) disposed of in accordance with the <i>Public and Environmental Health</i> (Waste Control) Regulations 2010.			
11. Remediate	No reasonable stakeholder complaints left unresolved.		All waste materials have been removed from Jolly-1. The site has been	
and rehabilitate	No rubbish or litter on site.	Compliant	re-profiled to allow resumption of agricultural activities as per	
operational areas	Refer to Assessment Criteria for Objective 4.		landholder requirements	

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