

**Strike Energy Limited**

**West Erregulla Exploration Program**

EPBC 2013/7054 Annual Report 2017-18

20 December 2018



# West Erregulla Exploration Program

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# 1. Introduction

The EP469 Joint Venture (JV) is undertaking petroleum exploration activities in the West Erregulla Field, approximately 300 km north of Perth and located onshore in the North Perth Basin. The JV consists of Strike West Pty Ltd (Strike Energy) (50% and Operator) and Warrego Energy Pty Ltd (Warrego Energy) (50%), following a farm in in June 2018.

The JV's West Erregulla Exploration Program (WEEP) comprises a three dimensional (3D) onshore seismic survey and an exploration well drilling program within EP 469. The seismic survey was completed on 20 December 2014. This involved traversing the project area in a grid pattern using Vibroseis trucks to send, receive and process seismic signals in order to map the underlying geology. The exploration well (West Erregulla 2) will be drilled in May 2019.

As part of its approval for the 3D seismic survey under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), Warrego Energy is required to publish a report on its compliance with approval EPBC 2013/7054. This report documents the JV's compliance for the period of 6 October 2017 to 5 October 2018

## 2. Compliance with EPBC 2013/7054

EPBC 2013/7054 was granted to Warrego Energy on 19 February 2014 following the Commonwealth Department of the Environment and Energy (formerly Department for the Environment) determination that the exploration activities were a controlled action. The approval was later amended on 3 April 2014 to remove condition 10a.

Table 1 reproduces the conditions of the approval (as amended) and sets out the JV's compliance with each condition for the 3D seismic survey. The condition text has in some instances been edited for brevity or omitted where not relevant to the 3D seismic survey. Explanatory notes not forming part of the approval are been provided in italics. Copies of the original approval are available from the Department of the Environment and Energy's website.

**Table 1 Compliance with EPBC 2013/7054**

Condition of EPBC 2013/7054	Compliance
<b>Project Area</b>	
1. <i>Note: condition defines the project area and is not a compliance item.</i>	
2. The person taking the action must provide a final project footprint to the department within 1 month of the completion of all project activities.	A final project footprint will be provided to the Department of the Environment and Energy once all project activities permitted under the approval have been completed.
<b>Project Activities</b>	
3. The person taking the action must conduct the 3D seismic survey entirely within Exploration Permit (EP) 469 within the project area.  <i>Note: 'project area' is defined by condition 1.</i>	All previous activities have been undertaken within EP 469.  No project activities relating to the 3D seismic survey were undertaken during the reporting period.
4. Within 1 month of the completion of each project activity, the person taking the action must publish a report and maps verifying compliance with the conditions of this notice on their website for a period of at least 3 months. The department must be notified within one week of the information being placed on their website.	A compliance report was published on 20 January 2015 to satisfy this condition for the 3D seismic survey and was available on the Warrego Energy website for the duration of the 2017-2018 reporting period. No project activities relating to the 3D seismic survey were undertaken during the reporting period.

Condition of EPBC 2013/7054	Compliance
5. The person taking the action will be permitted one drill well for the purposes of exploration (appraisal gas well).	The West Erregulla 2 well has not yet been drilled.
6. The person taking the action must advise the department within 1 month of the completion of drilling if the well and the pad and drilling infrastructure are to be left in-situ.	The West Erregulla 2 well has not yet been drilled.
<b>Disturbance limits</b>	
7. No more than 70 ha of native vegetation can be disturbed as a result of the project activities within the project area for the life of the project.	No clearing has occurred during the reporting period.  All previous clearing was conducted in the approved area (project area). The extent of native vegetation clearing to date is 56.345 ha.
<b>Pre-clearance surveys</b>	
8. The person taking the action must ensure surveying information is used that accurately locates and demarcates all areas of disturbance (from source lines, receiver points, drill pad and access tracks) and identifies areas which need to be avoided (including individual threatened flora species, and large tree species that may be utilised for foraging and roosting by the Carnaby's Black Cockatoo where possible) during vegetation clearance.	No clearing has occurred during the reporting period.  Locations of threatened flora were mapped during a flora and vegetation survey of the wider project area. A ground-truthing survey was conducted immediately prior to vegetation clearance. The ground-truthing survey verified that the planned clearing for source lines and access tracks avoided the mapped locations of threatened flora (including an additional buffer) and large trees.
9. The person taking the action must engage a suitably qualified person to identify and record any individuals of the Shield-backed Trapdoor Spider, Black Rugose Trapdoor Spider ( <i>Idiosoma nigrum</i> ), found during pre-clearance surveys. The person taking the action must notify the department in writing within 1 month of any individuals being sighted, providing observations and GPS location(s) of the sighting.	No clearing has occurred during the reporting period.  A field survey for the Shield-backed Trapdoor Spider and Black Rugose Trapdoor Spider was carried out and a report provided to the Department of the Environment. No individuals of either species were sighted during the survey or have been sighted since.
10 a. <i>Note: condition was deleted on 3 April 2014.</i>	
b. Vegetation clearing along access tracks and 3D seismic survey source lines must not be scraped to bare earth.	No clearing has occurred during the reporting period.
c. Known locations of Star Sun Orchid ( <i>Thelymitra stellata</i> ), the Sandplain Duck Orchid ( <i>Paracaleana dixonii</i> ), Yandanooka Mallee ( <i>Eucalyptus crispata</i> ), and Scaly Butt Mallee ( <i>Eucalyptus leprophloia</i> ) should be avoided.	No known locations of these species were impacted.
d. If otherwise unknown locations of EPBC Act listed threatened species are identified during project activities, the person taking the action must record individuals and notify the Department in writing within 1 week of any individuals being sited, providing observations and GPS locations of the sites.	No additional locations of EPBC Act listed threatened species were identified during the reporting period.
e. The drill pad, access tracks and borrow pits should be located to avoid locations of threatened flora and, where possible, located on previously disturbed land.	Site preparations for the West Erregulla 2 well have not commenced.
11. The person taking the action must prepare and submit an Environment Management Plan for the 3D seismic survey to the WA Department of Mines and Petroleum for approval. The approved Environment Management Plan must be provided to the Department within 2 weeks of approval.	The West Erregulla 3D Seismic Survey Environment Plan was approved by the Department of Mines and Petroleum. The current version (v8) was approved on 6 May 2014 and was subsequently provided to the Department of the Environment as the Environment Management Plan referred to in the approval conditions.

Condition of EPBC 2013/7054	Compliance
<p><b>12.</b> The Environment Management Plan must address impacts of project activities associated with the 3D seismic survey to EPBC Act listed threatened species and must include avoidance, mitigation and management measures to address these impacts.</p>	<p>Impacts of the project to EPBC Act listed threatened species were identified in the project's environmental risk assessment, which was a component of the Environment Plan. The risk assessment includes avoidance, mitigation and management measures to address these potential impacts.</p>
<p><b>13.</b> The person taking the action must not commence the 3D seismic survey unless the Environment Management Plan has been approved by the WA Department of Mines and Petroleum. The Environment Management Plan for the 3D seismic survey must be implemented.</p>	<p>No part of the 3D seismic survey was commenced before the Environment Plan was first approved on 11 February 2014.</p> <p>The Department of Mines and Petroleum audited the 3D seismic survey against the Environment Plan in December 2014.</p> <p>DMP's audit found one minor non-conformance relating to an error in documentation, but otherwise found that the seismic survey had been implemented in accordance with the environmental management plan.</p>
<p><b>14.</b> <i>Note: condition relates to appraisal drilling program.</i></p>	<p>The JV has not yet undertaken any activities relating to drilling.</p>
<p><b>15.</b> <i>Note: condition relates to appraisal drilling program.</i></p>	<p>The JV has not yet undertaken any activities relating to drilling.</p>
<p><b>16.</b> <i>Note: condition relates to appraisal drilling program.</i></p>	<p>The JV has not yet undertaken any activities relating to drilling.</p>
<p><b>17.</b> To offset the loss of habitat for the Carnaby's Black Cockatoo, within 12 months of the date of this approval, the person taking the action must provide written evidence to the Department that a legally binding conservation covenant has been registered over the offset area identified as the Proposed Offset Area. The conservation covenant must provide for the protection of no less than 543 ha of Carnaby's Black Cockatoo foraging habitat.</p>	<p>Warrego Energy has registered a conservation covenant over no less than 543 ha of Carnaby's Black Cockatoo foraging habitat.</p> <p>The conservation covenant made under the <i>Soil and Land Conservation Act 1945</i> was signed on 19 February 2015 and lodged as memorial M982798 on 1 May 2015.</p>

Condition of EPBC 2013/7054	Compliance
<p><b>18.</b> The person taking the action must prepare and submit an Offset Plan for the offset area within 1 month of commencement of project activities. The Offset Plan must include, but not limited to:</p> <ul style="list-style-type: none"> <li>• A textual description and map clearly defining the location and boundaries of the offset area, as specified in this condition, which must be accompanied with the offset attributes and shapefile;</li> <li>• Milestones and objectives of the Offset Plan;</li> <li>• Details of rehabilitation measures for offset area. These details should include but not be limited to, commencement timeframes, species to be utilized, stocking rates, measures to be utilized to ensure success, success targets, contingency measures in the case of not meeting targets and monitoring requirements;</li> <li>• Details of management measures for the offset area including measures to exclude weeds, third party access, intrusion of agricultural activities/practices and feral animals from offset area;</li> <li>• Timeframes for the implementation and completion of the above measures or strategies;</li> <li>• Details of monitoring, reporting and contingency measures if performance indicators are not met; and</li> <li>• Roles and responsibilities of personnel associated with implementing each of the above measures.</li> </ul>	<p>An Offset Plan meeting the requirements of this condition was submitted to the Department of the Environment on 9 May 2014, prior to the commencement of project activities. The Department of the Environment acknowledged its receipt of the Offset Plan on 20 June 2014. (The Department of the Environment was not required to approve the Offset Plan).</p> <p>The current version of the Offset Plan is version 6 dated 15 January 2015, approved by DMP on 16 January 2015.</p>
<p><b>19.</b> If condition 17 cannot be met, the person taking the action must provide another parcel or parcels of land similar to the offset area for approval in writing by the Department.</p>	<p>Warrego Energy has registered a conservation covenant over no less than 543 ha of Carnaby's Black Cockatoo foraging habitat, in accordance with condition 17.</p>

Condition of EPBC 2013/7054	Compliance
<p><b>20.</b> The Offset Plan must be implemented.</p>	<p>The Offset Plan is being implemented as per condition 17. Management practices detailed in the Offset Plan have commenced.</p> <p>Progress against the milestones in the Offset Plan is as follows:</p> <ul style="list-style-type: none"> <li>• <b>Placement of the conservation covenant on the title by 6 October 2015.</b> The conservation covenant made under the <i>Soil and Land Conservation Act 1945</i> was signed on 19 February 2015 and lodged as memorial M982798 by 1 May 2015.</li> <li>• <b>Waste removal within 3 months of formalisation of the covenant.</b> Waste was removed from the offset site within the 3 month period (refer correspondence to DMP dated 17 August 2015).</li> <li>• <b>Repair and maintenance of fencing within 3 months of formalisation of the covenant.</b> Fences were inspected and repaired where necessary within the 3 month period (refer correspondence to DMP dated 17 August 2015).</li> <li>• <b>Weed management within 6 months of formalization of the covenant.</b> Weed monitoring was undertaken in September 2015 to provide a baseline.</li> <li>• <b>Revegetation plan and implementation commenced within 6 months of formalisation of the covenant.</b> The revegetation plan has been developed. An inspection in November 2017 found that while native vegetation was re-establishing in one area, further work was required in another area. Weed management and rubbish removal were recommended, and were implemented in April 2018 and August 2018. Revegetation is ongoing.</li> </ul>
<b>Rehabilitation</b>	
<p><b>21.</b> The person taking the action must prepare and submit a Rehabilitation Plan detailing rehabilitation actions and monitoring criteria for the project area to the WA Department of Mines and Petroleum for approval. The approved Rehabilitation Plan must be provided to the Department within 2 weeks of approval.</p>	<p>A Rehabilitation Management Plan was approved by the Department of Mines and Petroleum on 29 December 2014. A copy of the approved Rehabilitation Management Plan was forwarded to the Department of the Environment on 6 January 2015.</p>

Condition of EPBC 2013/7054	Compliance
<p><b>22.</b> The Rehabilitation Plan must be implemented.</p>	<p>Rehabilitation Management Plan was approved by the Department of Mines and Petroleum on 29 December 2014. The Rehabilitation Management Plan is being implemented, following completion of the seismic survey activity on 20 December 2014.</p> <p>Weed and rehabilitation monitoring has commenced, and a field survey was undertaken from 7 to 11 September 2015. The results indicated that revegetation along the source lines and access tracks is progressing well towards the completion criteria. The weed assessment indicated that the completion criteria for weeds were being met.</p> <p>The spring 2016 monitoring fieldwork took place shortly after 5 October 2016. The results of this monitoring indicate that rehabilitation in a limited area has not been as vigorous as in the majority of the monitored areas and further remediation is under consideration. Determination of the nature and extent of such remediation will follow assessment of the situation in 2017.</p> <p>The spring 2017 monitoring fieldwork took place in November 2017. The inspection found that the native vegetation was re-establishing itself on the seismic lines at varying rates and none of the sites were approaching completion criteria. Potential causes include low rainfall since the previous inspection and a fire which had burned through the area.</p> <p>Rehabilitation is ongoing.</p>
<p><b>23.</b> The proponent taking the action must commence rehabilitation monitoring 1 month after completion of project activities and then annually for a minimum of 2 years or until monitoring has shown all rehabilitation criteria provided in the Rehabilitation Plan have been met.</p>	<p>Rehabilitation monitoring was commenced on 16 January 2015, within one month of completing project activities on 20 December 2014.</p> <p>Annual weed and rehabilitation monitoring fieldwork was undertaken in November 2017 and found that all rehabilitation criteria had not been met. As such monitoring will continue for the foreseeable future.</p>
<p><b>General</b></p>	
<p><b>24.</b> Within 7 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.</p>	<p>The Department of the Environment was notified of the commencement of project activities on 13 November 2014.</p>
<p><b>25.</b> The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the Environment Management Plan(s) for 3D Seismic Survey and Appraisal Drilling Program (if applicable) and Rehabilitation Plan required by this approval, and make them available upon request to the Department.</p>	<p>Records have been maintained throughout the duration of the seismic survey activities, and subsequent monitoring activities.</p>

Condition of EPBC 2013/7054	Compliance
<p><b>26.</b> Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.</p>	<p>This report has been prepared for the period 6 October 2017 to 5 October 2018 and includes information drawn from project records. It will be published on Strike Energy's website.</p>
<p><b>27.</b> Upon the direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.</p>	<p>No independent audits have been requested by the Minister.</p>
<p><b>28.</b> If the person taking the action varies an approved Environment Management Plan, the person taking the action must provide to the department a revised Environment Management Plan within 2 weeks of the WA Department of Mines and Petroleum's approval. The varied activity shall not commence until the WA Department of Mines and Petroleum has approved the varied Environment Management Plan in writing. If the WA Department of Mines and Petroleum approves the revised Environment Management Plan, that Environment Management Plan must be submitted to the department within 2 weeks of the WA Department of Mines and Petroleum's approval and implemented in place of the Environment Management Plan originally approved.</p>	<p>The Environment Plan (v5) was initially approved by the Department of Mines and Petroleum on 11 February 2014.</p> <p>The Environment Plan was amended and the current version (v8) was approved on 7 May 2014. Both versions were provided to the Department of the Environment within the 2- week timeframe following approval by the Department of Mines and Petroleum.</p>
<p><b>29.</b> If the Minister believes that it is necessary or convenient for the better protection of an EPBC Act listed threatened species to do so, the Minister may request that the person taking the action make specified revisions to an Environment Management Plan specified in the conditions and in consultation with the WA Department of Mines and Petroleum. The person taking the action must comply with any such request. The person taking the action must submit the revised Environment Management Plan for the WA Department of Mines and Petroleum's written approval and submit to the department within 2 weeks of this approval. The revised approved Environment Management Plan must be implemented. Unless the WA Department of Mines and Petroleum has approved the revised Environment Management Plan, then the person taking the action must continue to implement the Environment Management Plan originally approved, as specified in the conditions.</p>	<p>No amendments to any Environment Management Plan have been requested by the Minister.</p>
<p><b>30.</b> If, at any time after 12 months from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.</p>	<p>The seismic survey was commenced within 12 months of the date of approval.</p>

Condition of EPBC 2013/7054	Compliance
<p><b>31.</b> Unless otherwise agreed to in writing by the Minister, the person taking the action must publish all approved management plans referred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved.</p>	<p>The Environment Plan and Rehabilitation Management Plan both approved by the Department of Mines and Petroleum are published on Strike Energy's website.</p>