



# Monthly Drilling Report

March 2014

For Immediate Release – 2 April 2014  
Ref. #024/14

ASX Ltd/SGX Singapore Exchange Ltd  
Companies Announcement Office  
Electronic Lodgement System

Beach Energy Ltd  
ABN: 20 007 617 969  
ASX Code: BPT

25 Conyngham Street  
GLENSIDE SA 5065

GPO Box 175  
ADELAIDE SA 5001

Tel: +61 8 8338 2833  
Fax: +61 8 8338 2336

Web:  
[www.beachenergy.com.au](http://www.beachenergy.com.au)  
Email:  
[info@beachenergy.com.au](mailto:info@beachenergy.com.au)

## HIGHLIGHTS

- **Significant Western Flank oil discovery at Stunsail-1**
- **Six well exploration drilling program in ATP 855 completed with ETTY-1**

## AUSTRALIA

### Nappamerri Trough Natural Gas

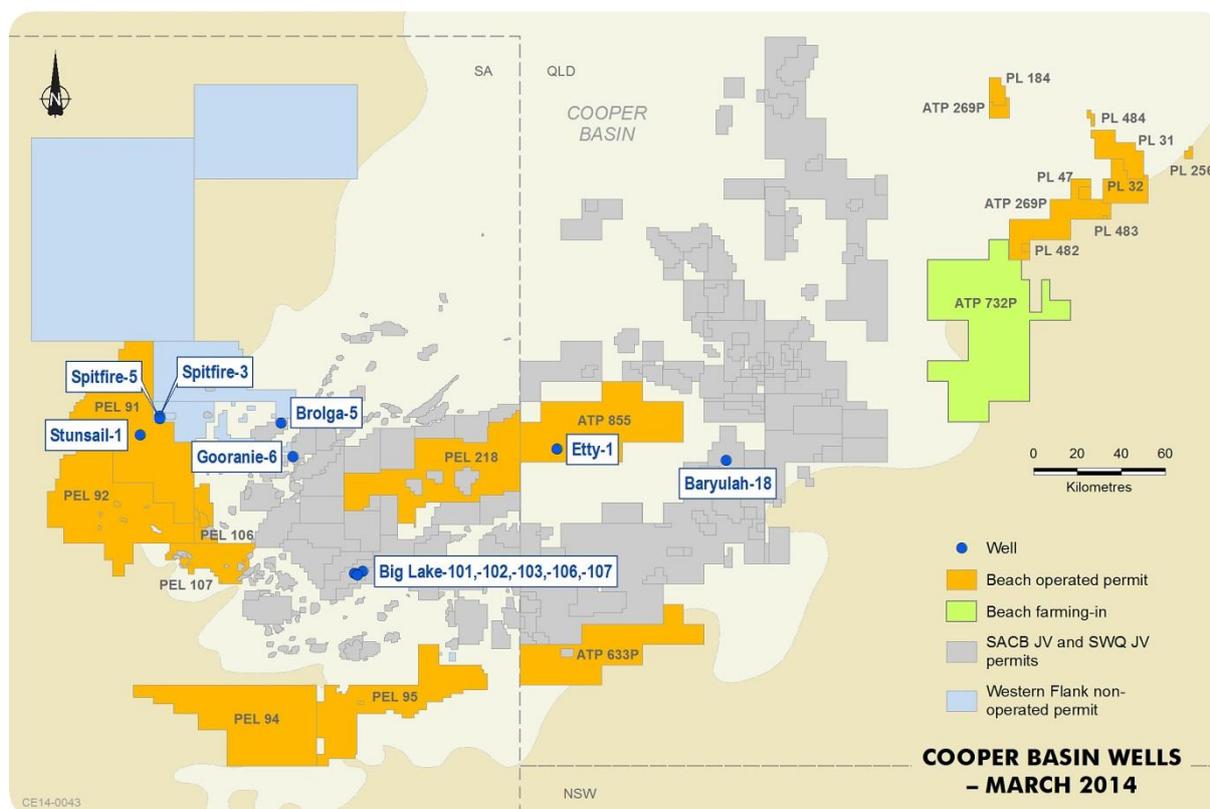
The ETTY-1 vertical exploration well in ATP 855 (Beach Energy Ltd (“Beach”) 46.9% and operator, Icon Energy Ltd 35.1%, Chevron Exploration Australia 1 Pty Ltd 18%) reached a total depth of 3,807 metres in the top of the Patchawarra Formation on 23 March 2014. Preliminary interpretation of wireline logs indicate the target interval to be gas saturated. ETTY-1 will be cased and suspended for fracture stimulation and production testing, to assess the deliverability potential of the basin centred play. ETTY-1 is the sixth and final exploration well drilled in the current campaign in ATP 855.

### Cooper-Eromanga Oil – South Australia

In PEL 91 (Beach 40% and operator, Drillsearch Energy Ltd 60%), the Stunsail-1 exploration well discovered oil in stacked pay over the McKinlay/Top Namur, Mid-Namur and Birkhead reservoirs. The well intersected the McKinlay/Namur at a depth of 1,367 metres with a ten metre column, six metres of which was within the highly productive Namur Sandstone. A four metre oil column was also penetrated in the mid-Namur at a depth of 1,403 metres. Additional oil shows were encountered in the deeper Birkhead Formation, with two intervals tested. The first drill stem test (“DST”) tested a gross 15 metre section, at a top depth of 1,709 metres (measured depth), and

recovered 46 barrels of oil and three barrels of filtrate over a four hour period. This equated to a test rate in excess of 250 barrels of oil per day. The second DST tested a gross 11.5 metre section, with a top depth of 1,652 metres (measured depth), with only water recovered.

To the north east of PEL 91, two oil development wells commenced drilling in the Spitfire oil field in PEL 104 (Beach 40% and Senex Energy Ltd 60% and operator). Spitfire-3 is being drilled in the Northern part of the field, targeting a seismic signature interpreted to be indicative of high porosity, with Spitfire-5 drilled in the southern part of the field, targeting a similar seismic signature. Spitfire-5 was cased and suspended as a future oil producer based on strong oil shows in the target Mid-Birkhead Formation. Spitfire-3 is currently drilling ahead after completing coring operations in the Mid-Birkhead Formation.



### Cooper Basin Oil and Gas – Exploration and Development

In the South Australian Cooper Basin Joint Venture (Beach 20.21%, Santos Ltd 66.6% and operator, Origin Energy Ltd (“Origin”) 13.19%), Big Lake-102 and -103, the first two wells of a four well pad development program (Big Lake-102 to -105), were cased and suspended as Patchawarra and Tirrawarra gas wells.

Big Lake-106, the first well of a separate four well pad development program (Big Lake-106 to -109) was cased and suspended as a Patchawarra and Tirrawarra gas well. The second well on this pad, Big Lake-107, is drilling ahead at 735 metres.

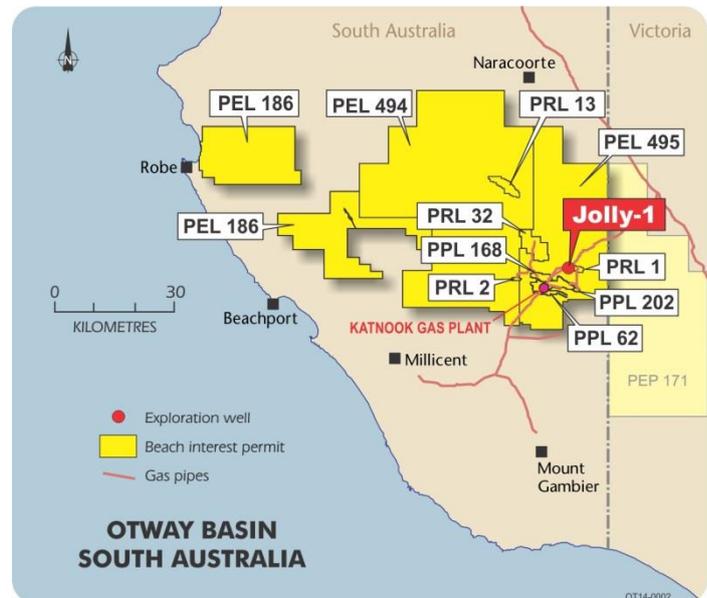
Big Lake-101, a step-out gas appraisal well in the north east flank of the field, reached a total depth of 3,131 metres and was cased and suspended as a Toolachee, Daralingie, Epsilon, Patchawarra and Tirrawarra gas well.

Gas development drilling on the South Australian side of the Cooper Basin continued to target the Patchawarra and Tirrawarra Formations. Gooranie-6 was cased and suspended as a Patchawarra and Tirrawarra gas well, and Broлга-5 is drilling ahead at 1,896 metres in the Murta Formation.

In the Southwest Queensland Joint Venture (Beach 23.2%, Santos 60.06% and operator, Origin 16.5% and Australia Pacific LNG Ltd 0.24%), the Baryulah-18 gas development well was cased and suspended as a Toolachee, Epsilon and Patchawarra producer.

### Otway Basin – South Australia

The Jolly-1 ST1 exploration well in PEL 495 (Beach 70% and operator, Cooper Energy Ltd 30%) was designed to evaluate the potential of shale and tight sandstone in the Lower Sawpit Shale and the Casterton Formation. These formations have the potential for liquids rich gas in the Penola Trough. The well was drilled to a total depth of 4,026 metres and intersected thick sections of shales and sandstones, with elevated gas readings in the Lower Sawpit Shale and Casterton Formation from a depth of 3,430 meters. Cores were retrieved from the Lower Sawpit Shale (26.7 metres) and the Casterton Formation (51.1 metres) and will be analysed for porosity, permeability and gas content. After completing the drilling operations and well site evaluation program of Jolly-1 ST1, cement plugs will be run.

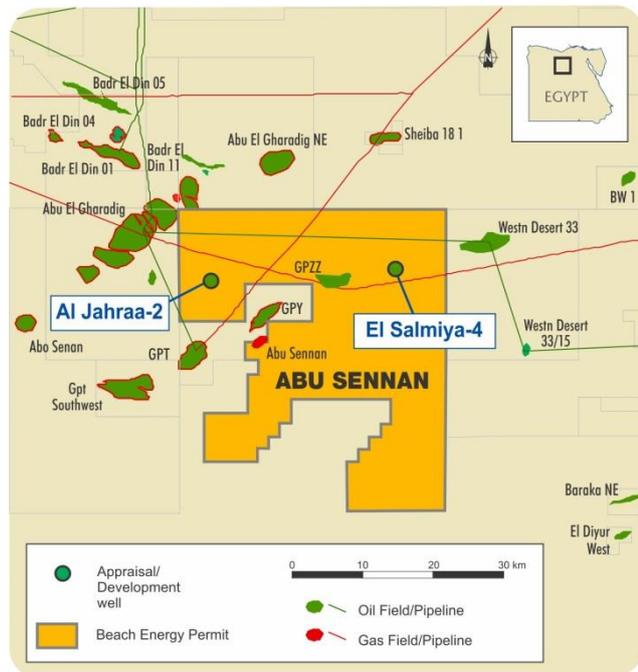


## INTERNATIONAL

### Abu Sennan Concession, Egypt (Beach 22%, Kuwait Energy Egypt Ltd 50% and operator, Dover Investments Ltd 28%)

El Salmiya-4 is currently drilling ahead in an 8 ½” hole at 3,833 metres in the Abu Roash “G” Member. El Salmiya-4 is an appraisal well designed to further appraise the extent of the Abu Roash reservoirs and the Kharita Formation discovery. The Kharita Formation discovery made in El Salmiya-2 is currently on extended production test.

The Al Jahraa-2 appraisal well is drilling ahead in a 17 ½” hole at 1,060 metres in the Dabaa Formation. The well is designed to appraise the Abu Roash “E” discovery made by the Al Jahraa-1 well and explore for the Abu Roash “C”, which was faulted out at the Al Jahraa-1 well location, and the Bahariya Formation. These target zones are updip of oil shows in the Al Jahraa-1 well.



### Drilling Report - Period ending Wednesday 2nd April 2014

Well	Participants	Progress & Summary	Primary Targets
<b>Stunsail-1</b> PEL 91 Oil Exploration Cooper, SA	BPT* 40.00% DLS 60.00%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 2019m (TD) Operation: Well is cased and suspended as a future Namur Sandstone oil producer. Progress: 2019m	Namur Sandstone, McKinlay Member, Birkhead Formation, Hutton Sandstone, Poolowanna Formation.
<b>Etty-1</b> ATP 855 Nappamerri Trough Natural Gas-Exploration Cooper, QLD	BPT* 46.90% ICN 35.10% CVX 18.00%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3807m (TD) Operation: Well is cased and suspended for further evaluation. Progress: 1142m	Toolachee Formation, Daralingie Formation.
<b>Jolly-1 ST1</b> PEL 495 Unconventional Gas Otway, SA	BPT* 70.00% COE 30.00%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 4026m (TD) Operation: Preparing to run plug and abandonment programme. Progress: 0m	Sawpit Shale, Casterton Formation.
<b>Spitfire-3</b> PEL 104 Oil Appraisal Cooper, SA	BPT 40.00% SXY* 60.00%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 1819m Operation: Drilling ahead. Progress: 1819m	Birkhead Formation, Poolowanna Formation, Kalladeina Formation.

Well	Participants	Progress & Summary	Primary Targets
<b>Spitfire-5</b> PEL 104 Oil Appraisal Cooper, SA	BPT 40.00% SXY* 60.00%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 1845m (TD) Operation: Well is cased and suspended as a future Birkhead Formation oil producer. Progress: 1845m	Birkhead Formation.
<b>Big Lake-103</b> PPL 11 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3274m Operation: Well is cased and suspended as a future Permian gas producer. Progress: 3274m	Patchawarra Formation, Tirrawarra Formation.
<b>Big Lake-107</b> PPL 11 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 735m Operation: Drilling ahead. Progress: 735m	Patchawarra Formation, Tirrawarra Formation.
<b>Gooranie-6</b> PPL 20 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3118m (TD) Operation: Well is cased and suspended as a future Permian gas producer. Progress: 3118m	Patchawarra Formation, Tirrawarra Sandstone.
<b>Brolga-5</b> PPL 18 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 1896m Operation: Rig repairs. Progress: 1896m	Patchawarra Formation, Tirrawarra Formation.
<b>Baryulah-18</b> PL 131 Gas Development C/E Basin, QLD	BPT 23.20% STO* 60.06% ORG 16.50% APL 0.24%	Report Time: 0600hrs (CDT) 02/04/2014 Depth: 2622m (TD) Operation: Well is cased and suspended as a future Permian gas producer. Progress: 2621m	Toolachee Formation, Patchawarra Formation.
<b>Big Lake-102</b> PPL 11 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3074m (TD) Operation: Well is cased and suspended as a future Permian gas producer. Progress: 1865m	Patchawarra Formation, Tirrawarra Formation.
<b>Big Lake-101</b> PPL 11 Gas Appraisal C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3131m (TD) Operation: Well is cased and suspended as a future Permian gas producer. Progress: 574m	Patchawarra Formation, Tirrawarra Formation.
<b>Big Lake-106</b> PPL 11 Gas Development C/E Basin, SA	BPT 20.21% STO* 66.60% ORG 13.19%	Report Time: 0600 hrs (CDT) 02/04/2014 Depth: 3117m (TD) Operation: Well is cased and suspended as a future Permian gas producer. Progress: 3117m	Patchawarra Formation, Tirrawarra Formation.
<b>Al Jahraa-2</b> Abu Sennan Oil Development Egypt, Western Desert	BPT 22.00% KEE* 50.00% DOV 28.00%	Report Time: 0600 hrs (local) 01/04/2014 Depth: 1060m Operation: Drilling ahead. Progress: 1060m	Abu Roash C, E, Bahariya, Khatatba.
<b>El Salmiya-4</b> Abu Sennan Oil Development Egypt, Western Desert	BPT 22.00% KEE* 50.00% DOV 28.00%	Report Time: 0600 hrs (local) 01/04/2014 Depth: 3833m Operation: Running casing. Progress: 843m	Abu Roash C, E, Bahariya, Khatatba.

(\* ) Operator

BPT Beach Energy Ltd  
DLS Drillsearch Energy Ltd  
CVX Chevron Australia

DOV Dover Investments Ltd  
GGO Gidgealpa Oil Pty Ltd  
ICN Icon Energy Ltd  
KEE Kuwait Energy Egypt Ltd

ORG Origin Energy Resources Ltd  
STO Santos Limited  
SXY Senex Energy Ltd  
APL Australia Pacific LNG Limited

A handwritten signature in black ink, appearing to read "Neil Gibbins", with a long horizontal line extending to the right.

Neil Gibbins  
Chief Operating Officer

**For more information, contact the following on +61 8 8338 2833:**

**Corporate**

Reg Nelson

Managing Director

Neil Gibbins

Chief Operating Officer

**Investor Relations**

Chris Jamieson

General Manager Investor Relations