

# Monthly Drilling Report

#### October 2013

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#### **AUSTRALIA**

### **Nappamerri Trough Natural Gas**

In PEL 218 (Beach Energy Ltd (Beach) 70% and operator, Chevron Australia Exploration 1 Pty Ltd (Chevron) 30%), Boston-3, the second horizontal well to be drilled in the Nappamerri Trough, commenced drilling on 7 September. The primary appraisal objective of Boston-3 will be to evaluate the Murteree Shale in this part of the permit. Boston-3 has completed the build section and reached a landing depth of 3,188 metres True Vertical Depth (TVD) in the lower Murteree Shale and will commence drilling the planned 600 metre long horizontal section.

The Geoffrey-1 vertical exploration well in ATP 855 (Beach 46.9% and operator, Icon Energy Ltd 35.1%, Chevron 18%) commenced drilling and is currently at the intermediate casing point, at 2,612 metres.

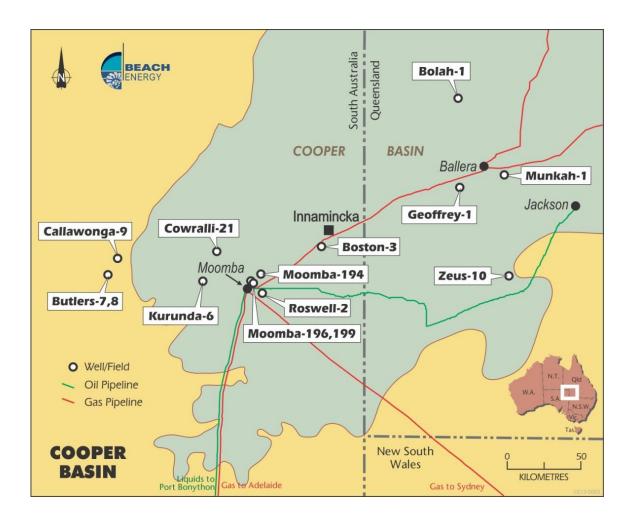
### Cooper-Eromanga Oil - Western Flank

In PEL 92 (Beach 75% and operator, Cooper Energy Ltd 25%), a four well appraisal/development drilling campaign resulted in all four wells cased and suspended as future oil producers.

The first well in the campaign, Windmill-2, intersected a four metre oil column in the Namur sandstone. The Butlers-7 development well, located approximately 200 metres north of Butlers-6, was drilled to a total depth of 1,445 metres. The well was designed to improve recovery from the northern end of the field, and intersected a 5.5 metre oil column within the Namur Sandstone. The Butlers-8 development well, located approximately 200 metres east of Butlers 1, was drilled in the crestal area of the field to a total depth of 1,650 metres. Butlers-8 intersected a 6.5 metre oil column in the Namur Sandstone.



The final well of the campaign in PEL 92 was the Callawonga-9 development well. This well was drilled to a total depth of 1,704 metres in the southern end of the Callawonga field, approximately 350 metres south of Callawonga-2. The well was designed to improve recovery from the southern end of the field, and intersected a six metre gross oil column, including four meters of net pay in the Namur Sandstone reservoir.



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

In the gas exploration program in Queensland (Beach 23.2%, Santos Ltd (Santos) 60.06% and operator, Origin Energy Resources Ltd (Origin) 16.5%, Australia Pacific LNG (APL) 0.24%), the Bolah-1 well was drilled to total depth of 2,863 metres and cased and suspended as a Toolachee Formation and Patchawarra Formation gas discovery. The Kaiden-1 gas exploration well is at 2,087 metres and drilling ahead toward the primary objectives, the Paning Member and Toolachee Formation.

In the gas development program in Queensland (Beach 23.2%, Santos 60.06% and operator, Origin 16.5%, APL 0.24%), the Munkah-13 well was drilled to a total depth of 2,388 metres and cased and suspended as a Toolachee Formation and Patchawarra Formation gas producer.



In the South Australian Cooper Basin Joint Venture (SACB JV) gas development program (Beach 20.21%, Santos 66.6% and operator, Origin 13.19%), Cowralli-21 was cased and suspended. This well was the last well of the 16 well Cowralli pad drilling program, with fracture stimulation now in progress on these wells. The Kurunda-6 well is currently drilling ahead at toward its primary objective, the Patchawarra Formation. The Moomba-196 well is currently drilling ahead at 2,837 metres, with the Moomba-198 well drilled to a total depth of 3,354 metres and cased and suspended as a Toolachee/Daralingie/Patchawarra gas producer. The Moomba-199 well is currently drilling ahead at 2,843 metres in the Epsilon Formation. Moomba-198 and -199 are located on the Moomba North pad.

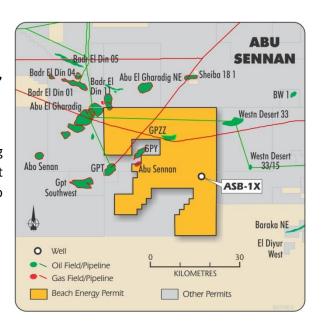
In the SACB JV unconventional gas appraisal programme, the Moomba-194 well was drilled to a total depth of 3,369 metres and was cased and suspended ahead of fracture stimulation to evaluate the deliverability of the Permian section. The Roswell-2 horizontal well is planned to evaluate the Roseneath Shale, with the well currently drilling a directional hole.

As part of a five well drilling campaign in the Zeus-Minos-Tennaperra field (Santos Group 70%, Delhi Petroleum Pty Ltd 30%) in southwest Queensland, Zeus-10 commenced drilling on 24 October. The well was cased and suspended as a future Birkhead oil producer. Drilling of the second well in the campaign, Zeus-8, commenced on 5 November and is currently drilling ahead at 498 metres.

### **INTERNATIONAL**

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

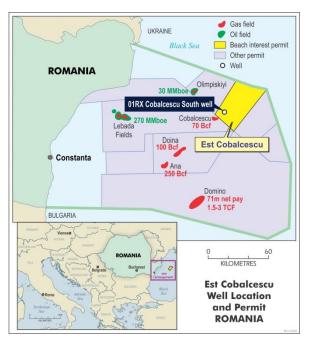
The ASB-1X exploration well completed drilling operations after failing to intersect significant hydrocarbons. The rig is now moving to appraise the El Salmiya field.





# Est Cobalcescu Concession, Black Sea, Romania (Beach 30%, Petroceltic International plc 40% and operator, Petromar Resources SA 30%)

The O1RX Cobalcescu South Exploration well in Block EX-28 Est Cobalcescu, offshore Romania, is drilling ahead at 2,914 metres. The well is evaluating the hydrocarbon potential of Pontian (upper Miocene) aged sands at various levels.



### **Drilling Report - Period ending Wednesday 6th November 2013**

Well Partici		icipants		Progress & Summary	Primary Targets
Callawonga-9	BPT*	75.00%	Report Time:	0600 (CST) 06/11/2013	Namur Sandstone,
PPL 220	COE	25.00%	Depth:	1703.5m (TD)	Birkhead Formation
Oil Development				Well is cased and suspended as a future McKinlay	
				Member and Namur Sandstone oil producer.	
Cooper, SA			Progress:	1703.5m	
Dudlana 0	IDDT*	75.000/	In	0000 (007) 00/44/0040	Name of the same
Butlers-8	BPT*	75.00%	Report Time:	0600 (CST) 06/11/2013	Namur Sandstone
PEL 92	COE	25.00%	Depth:	1650m (TD)	
Oil Development			Operation:	Well is cased and suspended as a future Namur	
			_	Sandstone oil producer.	
Cooper, SA			Progress:	1650m	
B. d 7	DDT+	75.000/	In . =:	0000 (007) 00 (44/0040	<b>I</b> N 0 1 1
Butlers-7	BPT*	75.00%	Report Time:	0600 (CST) 06/11/2013	Namur Sandstone
PEL 92	COE	25.00%	Depth:	1445m (TD)	
Oil Development			Operation:	Well is cased and suspended as a future Namur	
			_	Sandstone oil producer.	
Cooper, SA			Progress:	1445m	
Boston-3	BPT*	70.00%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale.
PEL 218	-Cvx	30.00%	Depth:	3188m (TVD)	Epsilon Formation,
Nappamerri Trough	OVX	30.0070	Operation:	Drilling ahead.	Murteree Shale,
Natural Gas			Орстаноп.	Dinning arioda.	Patchawarra Formation,
Cooper, SA			Progress:	2292m (TVD)	Toolachee Formation.
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Geoffrey-1	BPT*	46.90%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
ATP 855	cvx	18.00%	Depth:	2612m	Epsilon Formation,
Nappamerri Trough	ICN	35.10%	Operation:	Drilling ahead.	Murteree Shale,
Natural Gas				•	Patchawarra Formation,
Cooper, QLD			Progress:	2612m	Toolachee Formation.
Zeus-8	BPT	20.21%	Report Time:	0600hrs (CDT) 06/11/2013	Birkhead Formation,
PL 301	STO*	66.60%	Depth:	498m	Westbourne Formation.
Oil Development	ORG	13.19%	Operation:	Drilling ahead.	
C/E Basin, QLD				498m	

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	1		<u> </u>		
Zeus-10	BPT	20.21%	Report Time:	0600hrs (CDT) 06/11/2013	Birkhead Formation,
PL 301	STO*	66.60%	Depth:	1789m (TD)	Westbourne Formation.
Oil Development	ORG	13.19%	Operation:	Well is cased and suspended as a future Birkhead	
				Formation oil producer.	
C/E Basin, QLD				1789m	
Kaiden-1	BPT	23.20%	Report Time:	0600 hrs (CST) 06/11/2013	Paning Sand Member,
ATP 259	STO*	60.06%	Depth:	2087m	Toolachee Formation.
Gas Exploration	ORG	16.50%	Operation:	Drilling ahead.	
0/5 0 . 04	APL	0.24%		222	
C/E Basin, SA	ļ		Progress:	2087m	
Kurunda-6	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Patchawarra Formation,
PPL 6	STO*	66.06%	Depth:	2523m	Tirrawarra Formation.
Gas Development	ORG	13.19%	Operation:	Drilling ahead.	
C/E Basin, SA			Progress:	2523m	
Bolah-1	BPT	23.20%	Report Time:	0600 hrs (CST) 06/11/2013	Toolachee Formation PC30
ATP 259	STO*	60.06%	Depth:	2863m (TD)	Toolachee Formation PC35
Gas Exploration	ORG	16.50%	Operation:	Well is cased and suspended as a future Toolachee	
	APL	0.24%		and Patchawarra Formations gas producer.	
C/E Basin, SA			Progress:	1918m	
Moomba-194	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
PPL 113	STO*	66.60%	Depth:	3369m (TD)	Epsilon Formation,
Unconventional Gas	ORG	13.19%	Operation:	Well is cased and suspended as a future Permian	Murteree Shale,
Appraisal				gas producer.	Patchawarra Formation,
C/E Basin, SA			Progress:	0m	Toolachee Formation.
Moomba-198	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
PPL 113	STO*	66.60%	Depth:	3354m (TD)	Epsilon Formation,
Gas Development	ORG	13.19%	Operation:	Well is cased and suspended as a future Permian	Murteree Shale,
				gas producer.	Patchawarra Formation,
C/E Basin, SA			Progress:	3354m	Toolachee Formation.
Moomba-199	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
PPL 113	STO*	66.60%	Depth:	2843m	Epsilon Formation,
Gas Development	ORG	13.19%	Operation:	Drilling ahead.	Murteree Shale,
					Patchawarra Formation,
C/E Basin, SA			Progress:	2843m	Toolachee Formation.
Moomba-196	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
PPL 113	STO*	66.60%	Depth:	2837m	Epsilon Formation,
Gas Development	ORG	13.19%	Operation:	Drilling ahead.	Murteree Shale,
C/E Basin, SA			Progress:	2837m	Patchawarra Formation, Toolachee Formation.
C/E Basili, SA			Flogiess.	2037111	Toolachee Formation.
Roswell-2	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Roseneath Shale,
PPL 102	STO*	66.60%	Depth:	2358m	Epsilon Formation,
Unconventional Gas	ORG	13.19%	Operation:	Drilling ahead	Murteree Shale,
Appraisal			Progress:	2358m	Patchawarra Formation,
C/E Basin, SA	1		Progress:	2330III	Toolachee Formation.
Cowralli-21	BPT	20.21%	Report Time:	0600 hrs (CST) 06/11/2013	Patchawarra Formation,
PPL 91	STO*	66.60%	Depth:	3352m (TD)	Tirrawarra Formation.
Gas Development	ORG	13.19%	Operation:	Well is cased and suspended as a future Permian	
C/E Basin, SA			Progress:	gas producer. 3352m	
0,2 Daoiii, 0/1	-		1. 1091000.	33211	
Munkah-13	BPT	38.50%	Report Time:	0600 hrs (CST) 06/11/2013	Patchawarra Formation,
PL 60	STO*	55.50%	Depth:	2388m (TD)	Toolachee Formation.
Gas Development	AGF	2.00%	Operation:	Well is cased and suspended as a future Toolachee	
C/E Basin, QLD	BE BOG	2.00% 2.00%	Progress:	and Patchawarra Formations Gas producer. 2388m	
O/L Dasili, QLD	DOG	2.00 /0	i iogiess.	2000111	ļ

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01RX Cobalcescu	MRR*	40.00%	Report Time:	0600 hrs (local) 05/11/2013			Potian
EX-28	BPT	30.00%	Depth:	2914m			
Gas Exploration	PR	30.00%	Operations:	Drilling ahead.			
Romania			Progress:	1285m			
	•						•
ASB-1X ST1	BPT	22.00%	Report Time:	0600 hrs (local) 05/11/2013			Abu R'sh C, E, G
Abu Sennan	KEE*	50.00%	Depth:	4853m (TD)			Bahariya, Khatatba
Oil Exploration	DOV	28.00%	Operation:	Well is plugged and abandoned.			
Egypt, Western Desert			Progress:	545m			
(*) Operator BPT Beach Energy Ltd ORG Origin Energy Resources KEC Kuw ait Energy TO TriOcean BE Bridgeport (Eromanga) APL Australia Pacific LNG		CVX Chevron PR Petromar	0,	COE DLS DOV ICN MMR	Cooper Energy Drill Search Dover Investments Icon Energy Melrose Resources		

**Neil Gibbins** 

**Chief Operating Officer** 

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