

September 2013 Quarterly Production Report

Exploration and Production report for Quarter ended 30 September 2013

Comparative performance at a glance	- Origin's total	proportional in	iterests
Previous Quarter	September	June	Change %
Comparison	2013	2013	
Production (PJe)	37.5	32.1	17
Sales (PJe)	41.0	34.8	18
Revenue (A\$m)	306.7	222.6	38
Prior Corresponding	September	September	Change %
Quarter Comparison	2013	2012	
Production (PJe)	37.5	33.1	13
Sales (PJe)	41.0	36.2	13
Revenue (A\$m)	306.7	226.0	36

Note: Information presented in the table above and throughout this report relates only to hydrocarbon exploration and production activities undertaken by Origin Energy Limited ("Origin"), its subsidiaries and the incorporated joint ventures in which it has interests. The report does not cover other business activities of Origin such as electricity generation or energy retailing.

Highlights

- Production 17% higher than the previous Quarter reflecting in particular increased availability at BassGas and commencement of production from Geographe 2
- Revenue 38% higher than the previous Quarter reflecting an increase in production, higher third party sales volumes and higher average commodity prices
- APLNG drilled 105 Phase 1 development wells during the Quarter, bringing the total to 448
- APLNG project work currently being progressed at the rate of 3-4 per cent per month. The Upstream component of the project is 50% complete and the Downstream component 54% complete

Production and Sales

September Quarter 2013 compared with June Quarter 2013

Production of 37.5 PJe in the September Quarter 2013 was 5.4 PJe or 17% higher than the June Quarter 2013. This is primarily attributable to higher production at Otway (2.3 PJe) due to production commencing from the new Geographe 2 well, BassGas (1 PJe) following the Y4 wire-line well intervention, Kupe (0.9 PJe) due to higher market demand in the September Quarter 2013 and APLNG (0.9 PJe) primarily due to additional wells coming online.

Sales revenue increased 38% from the June Quarter 2013 reflecting production increases, higher sales of third party volumes and a higher average commodity price.

September Quarter 2013 compared with September Quarter 2012

Production of 37.5 PJe in the September Quarter 2013 was 4.4 PJe or 13% higher than the comparable Quarter in 2012. The higher production primarily reflects a full quarter of production from BassGas (3 PJe) which was shut-in for the September Quarter 2012 for the

Mid Life Enhancement (MLE) project and an increase in production at Kupe (1.1 PJe) due to additional gas contracts being in place in the September Quarter 2013.

Sales revenue increased 36% from the September Quarter 2012 reflecting production increases, higher sales of third party volumes and a higher average commodity price.

Exploration, Evaluation and Capital Expenditure

Expenditure on exploration and evaluation activities was \$38 million and capital expenditure on development and production activities was \$50 million (excluding APLNG) for the Quarter, as detailed in Section 5 of this report.

Significant activities during the Quarter included:

Otway Basin

On 29 July, 2013 Origin, on behalf of the VIC/L23 Joint Venture, announced the commencement of production from Otway Gas Project's newly developed Geographe gas field in Bass Strait in July, 2013 following commissioning and testing http://www.originenergy.com.au/news/article/asxmedia-releases/1503

MEO farmin

On 22 July 2013, Origin acquired a 50% interest in the WA 454P permit and associated Breakwater prospect in offshore Western Australia from MEO Australia. Origin has assumed operatorship of the permit.

• Drilling Activities:

APLNG

APLNG participated in 275 wells during the Quarter, including 28 exploration/appraisal wells, eight groundwater monitoring bores and 239 development wells (105 operated Phase 1 wells and 134 non-operated production wells).

Cooper Basin

Origin participated in the drilling of 17 wells during the Quarter, consisting of three exploration wells and 14 development wells.

Vietnam

Origin participated in the drilling of one exploration well in the Quarter. The 121-CV-1X well, which spudded on 15 June 2013, reached planned total depth during July 2013. Final logging has been completed, the well has been plugged and abandoned and the rig was released on 28 August 2013. The results of the well are now being evaluated and incorporated into forward exploration plans.

Post Report Date Events

TAWN (NZ Onshore) Asset Sale

The divestment of Origin's interests in the Tariki, Ahuroa, Waihapa and Ngaere licences in New Zealand's Taranaki region, as well as the Waihapa Production Station and associated gathering and sales infrastructure, to New Zealand Energy Corp was completed on 29 October 2013. Origin's sale consideration was CDN\$30 million plus a 9% royalty on all future hydrocarbons from these licences http://www.originenergy.com.au/news/article/asxmedia-releases/1527

1. PRODUCTION, SALES AND REVENUE

Note: Current Quarter production figures for some non-operated areas may include preliminary production data for the last month of the Quarter. Where actual production volumes only became available after the report date for that Quarter, previous Quarter figures have been amended to reflect this.

1.1 Production by Product and Area (including interest in APLNG)

					September		
Natural Gas and Ethane	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Natural Gas	PJ						
APLNG (CSG and Denison Trough) *		11.5	10.6	9	10.9	11.5	10.9
SA Cooper & SWQ		2.9	2.7	7	3.3	2.9	3.3
Otway Basin (offshore)		10.3	8.4	23	10.3	10.3	10.3
Bass Basin		2.2	1.5	47	-	2.2	-
Surat Basin		-	-	-	-	-	-
Perth Basin		1.2	1.1	9	1.1	1.2	1.1
Taranaki Basin (onshore)		0.1	0.1	0	0.1	0.1	0.1
Taranaki Basin (Kupe)		3.3	2.7	22	2.5	3.3	2.5
Ethane	PJ						
SA Cooper & SWQ		0.4	0.4	0	0.4	0.4	0.4
Total Production		31.9	27.5	16	28.6	31.9	28.6
Total Sales Volume		32.8	28.6	15	30.4	32.8	30.4
Total Sales Revenue	\$M	140.1	115.8	21	123.7#	140.1	123.7#
Average Gas Price	\$/GJ	4.27	4.04	6	4.07	4.27	4.07

					September		
Crude Oil	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Crude Oil	kbbls						
SA Cooper & SWQ		77.8	78.5	(1)	104.0	77.8	104.0
Surat Basin		3.9	4.5	(13)	4.4	3.9	4.4
Perth Basin		-	-	-	8.5	-	8.5
Taranaki Basin (onshore)		34.0	29.2	16	40.2	34.0	40.2
Total Production		115.7	112.2	3	157.1	115.7	157.1
Total Sales Volume		508.8	350.4	45	318.1	508.8	318.1
Total Sales Revenue	\$M	66.8	37.4	79	36.0	66.8	36.0
Average Crude Price	\$/bbl	131	107	23	113	131	113

^{*} Origin's share in APLNG was diluted from 50% to 42.5% on 9 August 2011 and to 37.5% on 12 July 2012.

[#] Adjusted to include APLNG carbon related revenue.

					September		
Condensate/Naphtha	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Condensate/Naphtha	kbbls						
APLNG (Denison Trough) *		0.3	-	-	0.2	0.3	0.2
SA Cooper & SWQ		58.2	55.9	4	57.4	58.2	57.4
Otway Basin (offshore)		122.4	81.8	50	106.8	122.4	106.8
Bass Basin		87.2	54.2	61	-	87.2	-
Surat Basin		-	-	-	-	-	-
Perth Basin		1.0	0.7	47	0.4	1.0	0.4
Taranaki Basin (onshore)		-	-	-	-	-	-
Taranaki Basin (Kupe)		256.5	222.9	15	221.5	256.5	221.5
Total Production		525.6	415.5	26	386.3	525.6	386.3
Total Sales Volume		549.9	477.5	15	447.7	549.9	447.7
Total Sales Revenue	\$M	63.0	47.4	33	45.2	63.0	45.2
Average Condensate Price	\$/bbl	115	99	15	101	115	101

					September		
LPG	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
LPG	Kt						
SA Cooper & SWQ		7.2	6.5	11	7.4	7.2	7.4
Otway Basin (offshore)		15.6	10.1	54	12.5	15.6	12.5
Bass Basin		7.3	4.0	83	-	7.3	-
Surat Basin		-	-	-	-	-	-
Taranaki Basin (onshore)		0.2	0.2	0	0.3	0.2	0.3
Taranaki Basin (Kupe)		14.1	12.0	18	10.4	14.1	10.4
Total Production		44.4	32.8	35	30.6	44.4	30.6
Total Sales Volume		44.7	31.5	42	30.8	44.7	30.8
Total Sales Revenue	\$M	36.8	22.0	67	21.0	36.8	21.0
Average LPG Price	\$/t	823	698	18	682	823	682

1.2 Production by Basin (including APLNG production)

Production by Basin					September		
(All products, PJe)	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Production by Basin	PJe						
APLNG (CSG and Denison Trough) *		11.5	10.6	9	10.9	11.5	10.9
SA Cooper & SWQ		4.4	4.2	5	5.0	4.4	5.0
Otway Basin (offshore)		11.7	9.4	24	11.5	11.7	11.5
Bass Basin		3.0	2.0	50	-	3.0	-
Surat Basin		-	0.0	(100)	-	-	-
Perth Basin		1.2	1.1	9	1.1	1.2	1.1
Taranaki Basin (onshore)		0.3	0.3	0	0.3	0.3	0.3
Taranaki Basin (Kupe)		5.4	4.5	20	4.3	5.4	4.3
Total Production Volume	PJe	37.5	32.1	17	33.1	37.5	33.1
Total Sales Volume	PJe	41.0	34.8	18	36.2	41.0	36.2
Total Sales Revenue	\$M	306.7	222.6	38	226.0#	306.7	226.0#
Average Commodity Price \$	/GJe	7.49	6.39	17	6.25	7.49	6.25

Origin's share in APLNG was diluted from 50% to 42.5% on 9 August 2011 and to 37.5% on 12 July 2012. $^{\#}$ Adjusted to include APLNG carbon related revenue.

1.3 **Production, Sales Volumes and Revenue Summaries**

1.3.1 Origin excluding interest in APLNG

					September		
Total All Products	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Total Production Volume	PJe	26.0	21.5	21	22.2	26.0	22.2
Total Sales Volume	PJe	28.4	23.1	23	24.4	28.4	24.4
Total Sales Revenue	\$M	262.2	182.4	44	187.7	262.2	187.7
Average Commodity Price	\$/GJe	9.2	7.9	17	7.7	9.2	7.7

1.3.2 Origin's interest in APLNG*

					September		
Total All Products	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Production APLNG 100%	PJe	30.7	28.2	9	29.1	30.7	29.1
Origin's interest:							
Production (all products)	PJe	11.5	10.6	9	10.9	11.5	10.9
Sales (all products)	PJe	12.6	11.7	7	11.8	12.6	11.8
Total Sales Revenue	\$M	44.5	40.2	11	38.3	44.5	38.3#

1.4 Internal and External Purchase and Sales Summary

1.4.1 Internal and External Sales (Origin excluding interest in APLNG)

					September		
Internal & External Sales Volumes	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Total Sales Volume	PJe						
Internal		11.2	8.8	28	7.7	11.2	7.7
External		17.3	14.3	21	16.7	17.3	16.7
Total		28.4	23.1	23	24.4	28.4	24.4

1.4.2 External Purchases

Product Purchases included in above sales					September		
	Unit	This	Previous	%	Quarter	YTD	YTD
		Quarter	Quarter	Change	2012	2013/14	2012/13
Origin (excluding interest in APLNG)	PJe	2.5	2.1	19	1.4	2.5	1.4
Origin's interest in APLNG *	PJe	1.1	1.3	(15)	1.3	1.1	1.3
Total	PJe	3.6	3.4	6	2.7	3.6	2.7

 $^{^{\}star}$ Origin's share in APLNG was diluted from 50% to 42.5% on 9 August 2011 and to 37.5% on 12 July 2012. $^{\#}$ Adjusted to include APLNG carbon related revenue.

2 **DEVELOPMENT AND EXPLORATION OPERATIONS**

2.1 Origin's interests held through Australia Pacific LNG (APLNG)

2.1.1 Upstream Operations

APLNG production (100%) was 30.7 PJe during the Quarter, an increase of 9% compared to the June Quarter 2013, primarily due to a successful Spring Gully workover campaign, Spring Gully wells coming online and improved Talinga compressor availability.

Average production from operated assets increased from 229 TJ/d in the June Quarter 2013 to 255 TJ/d (APLNG share) and increased from 78 TJ/d to 79 TJ/d from non-operated assets (APLNG share).

APLNG participated in 275 wells during the Quarter, including 28 exploration/appraisal wells, eight groundwater monitoring bores and 239 development wells (105 operated Phase 1 wells and 134 non-operated production wells).

APLNG Operated Production Wells

The Phase 1 drilling program continued, with 105 operated production wells drilled during the Quarter. Of these, 23 were drilled in Condabri, 16 in Spring Gully, 58 in Combabula and eight in Orana. A total of 448 Phase 1 operated wells have been drilled to 30 September 2013.

			Pre-Phase 1 ¹	Phase 1 ²	
			Development wells commissioned	Development wells drilled	Development wells commissioned
		This Quarter	2	16	10
Bowen	Spring Gully	YTD 2013/2014	2	16	10
		Total to Date	177 ³	59 ⁴	20 ⁵
		Max. Avg Well Deliverability ⁶	1.2 TJ/d	-	-
		This Quarter	-	-	-
	Talinga	YTD 2013/2014	-	-	-
		Total to Date	101 ³		=
	Orana	Max. Avg Well Deliverability ⁶	2.2 TJ/d	-	-
		This Quarter	-	8	-
		YTD 2013/2014	-	8	-
		Total to Date	-	8	-
Surat		Max. Avg Well Deliverability ⁶	-	-	-
Julat		This Quarter	-	23	12
	Condabri	YTD 2013/14	-	23	12
		Total to Date	-	267	12
		Max. Avg Well Deliverability ⁶	-	-	-
		This Quarter	-	58	-
		YTD 2013/14	-	58	-
	Combabula	Total to Date	-	114	
		Max. Avg Well Deliverability ⁶	-	-	-
		This Quarter	2	105	22
	Total	YTD 2013/2014	2	105	22
		Total to Date	278 ⁷	4487	32

¹ APLNG operated wells designated to deliver gas to its domestic operations

APLNG operated wells designated to deliver first gas to both trains of the CSG to LNG project
 30 June, 2013 pre Phase 1 well counts revised from 167 to 175 for Spring Gully and 102 to 101 for Talinga

⁴ Excludes two pre-Phase 1 development wells drilled in Spring Gully

⁵ 30 June, 2013 Spring Gully Phase 1 Development wells online revised from 0 to 10

⁶ Maximum average observable rate sustained over a week, throughout the Quarter, from wells that have been online for more than six months

⁷ Excludes 25 conventional wells in the Denison Trough and 23 CSG wells in the Peat Project Area not targeted for any Phase 1 development

Bowen Basin (CSG)

Spring Gully Project area (Operated)

The gas plants achieved gross average production of 129 TJ/day (APLNG share 126 TJ/day) during the Quarter.

Of the wells that form part of the Spring Gully Phase 6 project, two were commissioned and are now online, in addition, 10 APLNG phase 1 wells were also commissioned and are now online. The 32 well workover campaign to install artificial lift systems was completed during the Quarter.

16 APLNG Phase 1 wells were drilled during the Quarter.

Fairview Project area (Non-operated)

Average Fairview gas production during the Quarter was 105 TJ/d (APLNG share 25 TJ/d).

10 development wells and five exploration/appraisal wells were drilled in the non-operated Fairview project area and other participating GLNG-operated tenements in the region during the Quarter.

Peat Project Area (Operated)

Average gas production for the Quarter was 9 TJ/d (100% owned by APLNG).

Surat Basin (CSG)

Talinga/Orana Project Area (Operated)

Average production for the Quarter was 115 TJ/d (100% owned by APLNG). 101 wells are currently producing in the field with the North Talinga field fully commissioned.

Eight Orana Phase 1 wells and three ground water monitoring bore were drilled in the Quarter.

Argyle/Kenya/Lauren/Bellevue Project Area (Non-operated)

ATP 620 JV (Kenya) production averaged 126 TJ/d during the Quarter (APLNG share 51 TJ/d) and PL 247 (Bellevue) production averaged 7 TJ/d during the Quarter (APLNG share 2 TJ/d), with APLNG receiving a further 1 TJ/d of Bellevue gas under gas banking repayment arrangements with QGC.

Across total participating QGC tenements, 124 development wells and four appraisal wells were drilled during the Quarter.

Angry Jungle (Non-Operated)

During the Quarter, three exploration and appraisal wells were drilled in the GLNG-operated tenement. ATP 631P.

Condabri Project Area (Operated)

Development of the Condabri project area has progressed, with 23 development wells drilled and 13 completed during the Quarter. 12 wells are currently producing to an early flare in the Condabri Central field.

Combabula Project Area (Operated)

Development of the Combabula project area continues with 58 development wells and two groundwater monitoring bores drilled during the Quarter.

Other Areas (Operated)

Nine Exploration wells and three groundwater monitoring bores were drilled in this Quarter.

Galilee Basin (CSG)

Four Exploration wells were drilled in the Galilee Basin this Quarter, three were plugged and abandoned (Cannonball 1, Politic 1 and Skull 1) whilst one was cased and suspended (Yahoo 1) for further evaluation.

Denison Trough (including Conventional)

Average gas production for the Quarter was 8 TJ/d (APLNG share 4 TJ/d). The Northern Denison field remains temporarily shut down to carry out upgrade activities.

Other Areas

Mira 3 pilot well was worked over and brought online for the first time during the Quarter.

During the Quarter, three exploration and appraisal wells were drilled in the Denison Trough, with two cased and suspended and the third plugged and abandoned.

2.1.2 Upstream Project Update

Upstream progress at 30 September 2013 is 50%. This incorporates a rebasing of overall progress reporting to allow for project cost increases already announced in February, the greater part of which was increased contingency on the Upstream part of the project. This rebasing has no effect on the achievement of project milestones or schedule.

There were 105 development wells drilled in the Quarter with a total of 448 Phase 1 wells drilled to date. Drilling progress is continuing in line with plan and lease construction is ramping up with a new contractor panel appointed.

For the Quarter there were 91 diameter-kilometres of gathering lines installed, bringing the cumulative total to 252 diameter-kilometres (equivalent to 427 wells). There is 275 kilometres of the main pipeline installed (132 kilometres during the Quarter) and it is now 84% complete.

The first wells were brought on line in Condabri Central during August with gas flowing into the gathering network and flared, and produced water flowing into ponds. Practical completion was achieved for the Condabri Central to Condabri South 132kV transmission line during August and the Monreagh Dam was completed.



Water Treatment Facility - Condabri Central

2.1.3 Downstream Project Update

The Downstream project is 54% complete at the end of September 2013.

The seventh barge of modules was delivered to Curtis Island during the Quarter, and the eighth and ninth barges were en-route at the end of September 2013.

A number of key equipment packages were delivered to Curtis Island, including the first batch of pre-fabricated generation substations; the Train 2 CO_2 absorber and the first shipment of Train 2 refrigeration compressors. Additionally, packages en-route at the end of the Quarter included the second shipment of Train 2 refrigeration compressors.

Other construction activities during the Quarter included completed setting of Train 1 compressors, commencement of concrete pouring of the Train 2 tabletops, and completed pile driving for the loading platform, trestle and berthing dolphins of the LNG jetty.

By the end of the Quarter, the construction camp was completed and the main dredging required for the project was completed (ongoing maintenance dredging will continue). Roof raising on the second LNG tank occurred in July 2013 and the concrete walls surrounding the tanks are almost complete. Insulation works are continuing on both tanks.



Curtis Island - Overview from South

2.2 Cooper / Eromanga Basin (South Australia / Queensland)

Cooper Basin production of 4.4 PJe increased by 5% from the previous Quarter due to additional wells coming online. Production was 0.6 PJe or 12% lower than the September 2012 Quarter as a result of natural field decline.

A total of 17 wells were drilled in the Quarter, consisting of 14 development locations and three unconventional exploration locations. Seven wells were from operations at the Cowralli Multi-Well pad and the the remaining wells from the SWQ development programme and the 2013 Charo and Cook Oil programmes.

13 of the development wells were cased and suspended with one subject to ongoing drilling.

Exploration activity was highlighted by continued activity within the Nappamerri Trough with the drilling and case and suspend of Van Der Waals-1 and Langmuir-1. Moomba 194 (Fortuna 1Vt), the vertical appraisal/micro-seismic monitoring wellbore for the subsequent horizontal targeting the REM shale, was subject to ongoing drilling. The first well in the campaign (Gaschnitz 1 ST) was fracture stimulated over seven stages and produced gas to surface at 1 MMscf/d.

2.3 Otway Basin (Victoria / Tasmania)

Otway Basin production of 11.7 PJe has increased by 24% from the previous Quarter due to higher plant availability and the Geographe 2 well being online from July 2013.

2.4 Bass Basin (Tasmania)

Bass Basin production of 3 PJe has increased by 50% from the previous Quarter due to both Yolla 3 and Yolla 4 wells being online and higher plant availability.

Production is currently restricted by produced water handling capability. Yolla MLE Phase 2 activities commenced on the platform.

2.5 Surat Basin (Queensland)

Operations at the Kincora gas processing plant remained suspended during the Quarter pending the completion of an asset review. Oil production of 3.9 kbbls is continuing from the Emu Apple Field.

Pilot testing continues at Duke 2 and Duke 3 pilots at the Ironbark ATP 788 CSG tenement.

2.6 Perth Basin (Western Australia)

Perth Basin production of 1.2 PJe has increased by 9% from the previous Quarter. Condensate production increased 47% due to the more liquids rich Beharra Spring wells coming back online.

2.7 Bonaparte Basin (Western Australia/Northern Territory)

Petrel Field (WA6R & NT/RL1)

The Operator, GDF Suez, continues to work up the development concept for the upstream development of the Petrel gas field.

2.8 Taranaki Basin (New Zealand)

Kupe (offshore Taranaki)

Kupe production of 5.4 PJe (Origin share) was 20% higher than the previous Quarter due to higher seasonal market nominations. Three tanker liftings of Kupe light crude from Port Taranaki were completed during the Quarter.

Tariki/Ahuroa/Waihapa/Ngaere (TAWN) and Rimu/Kauri/Manutahi

Total onshore production of 0.3 PJe was in line with the previous Quarter.

The Manutahi-D pilot plant was partly operational during the Quarter and production limited due to post commissioning operational issues with the pilot plant equipment. These issues were resolved during October.

Oil production from the Manutahi waterflood pilot remained temporarily shut-in for the majority of the Quarter while a workover was conducted to clean out the central producing well. Oil production resumed in early October.

2.9 Canterbury Basin (New Zealand)

The operator, Anadarko, continued preparations to drill the Caravel-1 well during the Quarter. The well is scheduled to commence drilling in the second half of FY2014 using the Noble Bob Douglas drillship.

2.10 Lamu Basin (Kenya)

Technical assessment of the prospectivity of the L8 PSC area continued during the Quarter.

2.11 Song Hong Basin (Vietnam)

The 121-CV-1X well, spudded on 15 June 2013 and reached planned total depth during July 2013. Final logging has been completed, the well plugged and abandoned and the rig was released on 28 August. The results of the well are now being evaluated and incorporated into forward exploration plans.

2.12 Botswana

The nine corehole and drill stem testing program was completed. The test results indicated variable permeability. Desorption and adsorption core analysis results are presently being interpreted.

3. ACQUISITIONS/DIVESTMENTS

DIVESTMENT

• TAWN (NZ Onshore) Asset Sale

The divestment of Origin's interests in the Tariki, Ahuroa, Waihapa and Ngaere licences in New Zealand's Taranaki region, as well as the Waihapa Production Station and associated gathering and sales infrastructure, to New Zealand Energy Corp was completed on 29 October 2013.

ACQUISITIONS

• WA 454P (Bonaparte Basin)

On 22 July 2013, Origin acquired a 50% interest in the WA 454P permit and associated Breakwater prospect in offshore Western Australia from MEO Australia. Origin has assumed operatorship of the permit.

4. **DRILLING ACTIVITY**

4.1 Exploration/Appraisal

The table below summarises the exploration and appraisal drilling in which Origin had an interest during the Quarter:

Exploration/Appraisal Wells	Basin / Area	Target	Origin Effective Interest %	Well Status
Langmuir 1	Cooper Basin - SA	Gas	13.19%	C&S
Moomba 194	Cooper Basin - SA	Gas	13.19%	Drilling Ahead
Van Der Waals 1	Cooper Basin - SA	Gas	13.19%	C&S
Bottle Tree West 1	Bowen Basin	CSG	18.75%*	Suspended
Ironbark Gully 3	Bowen Basin	CSG	8.97%	Suspended
Ironbark Gully 4	Bowen Basin	CSG	8.97%	Suspended
Ironbark Gully 5	Bowen Basin	CSG	8.97%	Suspended
New Fowler 1	Bowen Basin	CSG	18.75%*	P&A
Waddy Brae 2	Bowen Basin	CSG	8.97%	Suspended
Waddy Brae 3	Bowen Basin	CSG	8.97%	Suspended
Westgrove 8	Bowen Basin	CSG	18.75%*	Suspended
Cannonball 1	Galilee Basin	CSG	37.5%*	P&A
Politic 1	Galilee Basin	CSG	37.5%*	P&A
Skull 1	Galilee Basin	CSG	37.5%*	P&A
Yahoo 1	Galilee Basin	CSG	37.5%*	Suspended
Angry Jungle 7	Surat Basin	CSG	6.79%	Suspended
Barney 10	Surat Basin	CSG	11.72%	Suspended
Celeste 20	Surat Basin	CSG	11.72%	Suspended
Gilbert Gully 15	Surat Basin	CSG	37.5%*	Suspended
Gilbert Gully 24	Surat Basin	CSG	37.5%*	Suspended
Gilbert Gully 25	Surat Basin	CSG	37.5%*	Suspended
Gilbert Gully 26	Surat Basin	CSG	37.5%*	P&A
Mostyn 1	Surat Basin	CSG	6.79%	Suspended
Myalla 1	Surat Basin	CSG	6.79%	Suspended
Poppy 14	Surat Basin	CSG	11.72%	Suspended
Poppy 15	Surat Basin	CSG	11.72%	Suspended
Waar Waar 10	Surat Basin	CSG	37.5%*	P&A
Waar Waar 13	Surat Basin	CSG	37.5%*	Suspended
Waar Waar 4	Surat Basin	CSG	37.5%*	P&A
Zig Zag 3	Surat Basin	CSG	37.5%*	Continuing
Zig Zag 4	Surat Basin	CSG	37.5%*	Suspended
121-CV-1X	Vietnam	Oil/Gas	45.00%*	P&A

^{*} Denotes Origin Operatorship

4.2 Development

The table below summarises the development drilling in which Origin had an interest during the Quarter. Origin participated in 247 CSG development wells (including groundwater monitoring wells) across the Bowen and Surat Basins and 14 conventional gas/oil development wells in the Cooper Basin during the Quarter.

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Cooper Basin - SA		
Target - Gas		
Cowralli 17	13.2%	C&S
Cowralli 18	13.2%	C&S
Cowralli 19	13.2%	C&S
Cowralli 20	13.2%	C&S
Cowralli 27	13.2%	C&S
Cowralli 28	13.2%	C&S
Cowralli 29	13.2%	C&S
Pelican 13	13.2%	C&S
Cooper Basin - SA		
Target - Oil		
Charo 18	13.2%	C&S
Cooper Basin - SWQ		
Target - Gas		
Bolah 1	25.0%	Drilling Ahead
Okotoko West 1/ST1	16.7%	C&S
Cooper Basin - SWQ		
Target - Oil		
Cook 24	25.00%	C&S
Cook 25	25.00%	C&S
Cook 27	25.00%	C&S
Bowen Basin		
Target - CSG		
Durham Ranch 100	11.7%	Production
Durham Ranch 102	11.7%	Production
Durham Ranch 106	11.7%	Production
Durham Ranch 107	11.7%	Production
Durham Ranch 124	11.7%	Production
Durham Ranch 126	11.7%	Production
Durham Ranch 179	11.7%	Production
Durham Ranch 180	11.7%	Production
Durham Ranch 183	11.7%	Production
Durham Ranch 265	11.7%	Production
Durham Ranch 266	11.7%	Production
Durham Ranch 276	11.7%	Production
Durham Ranch 93	11.7%	Production
Durham Ranch 94	11.7%	Production
Durham Ranch 99	11.7%	Production
Fairview 12-02-2	11.7%	Production
Fairview 12-02-3	11.7%	Production

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Fairview 12-08-2	11.7%	Production
Fairview 12-08-3	11.7%	Production
Fairview 13-09-4	11.7%	Production
Fairview 13-14-5	11.7%	Production
Fairview 13-14-6	11.7%	Production
Fairview 13-14-7	11.7%	Production
Fairview 13-14-8	11.7%	Production
Fairview 16-49-1	11.7%	Production
Spring Gully 146	11.7%	Production
Surat Basin		
Target - CSG		
Broadwater 124	11.7%	Production
Broadwater 131	11.7%	Production
Broadwater 139	11.7%	Production
Broadwater 140	11.7%	Production
Broadwater 148	11.7%	Production
Broadwater 149	11.7%	Production
Broadwater 150	11.7%	Production
Broadwater 151	11.7%	Production
Broadwater 157	11.7%	Production
Broadwater 158	11.7%	Production
Broadwater 166	11.7%	Production
Broadwater 168	11.7%	Production
Broadwater 175	11.7%	Production
Broadwater 179	11.7%	Production
Broadwater 185	11.7%	Production
Broadwater 186	11.7%	Production
Broadwater 188	11.7%	Production
Broadwater 198	11.7%	Production
Broadwater 206	11.7%	Production
Broadwater 213	11.7%	Production
Broadwater 219	11.7%	Production
Clunie 101	11.7%	Production
Clunie 102	11.7%	Production
Clunie 103	11.7%	Production
Clunie 104	11.7%	Production
Clunie 105	11.7%	Production
Clunie 106	11.7%	Production
Clunie 107	11.7%	Production
Clunie 108	11.7%	Production
Clunie 109	11.7%	Production
Clunie 110	11.7%	Production

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Clunie 111	11.7%	Production
Clunie 112	11.7%	Production
Combabula 103	34.77%*	Production
Combabula 104	34.77%*	Production
Combabula 105	34.77%*	Production
Combabula 106	34.77%*	Production
Combabula 119	34.77%*	Production
Combabula 120	34.77%*	Production
Combabula 132	34.77%*	Production
Combabula 134	34.77%*	Production
Combabula 135	34.77%*	Production
Combabula 136	34.77%*	Production
Combabula 137	34.77%*	Production
Combabula 138	34.77%*	Production
Combabula 139	34.77%*	Production
Combabula 140	34.77%*	Production
Combabula 150	34.77%*	Production
Combabula 151	34.77%*	Production
Combabula 152	34.77%*	Production
Combabula 153	34.77%*	Production
Combabula 154	34.77%*	Production
Combabula 155	34.77%*	Production
Combabula 156	34.77%*	Production
Combabula 157	34.77%*	Production
Combabula 166	34.77%*	Production
Combabula 167	34.77%*	Production
Combabula 168	34.77%*	Production
Combabula 169	34.77%*	Production
Combabula 184	34.77%*	Production
Combabula 185	34.77%*	Production
Combabula 186	34.77%*	Production
Combabula 187	34.77%*	Production
Combabula 188	34.77%*	Production
Combabula 189	34.77%*	Production
Combabula 190	34.77%*	Production
Combabula 191	34.77%*	Production
Combabula 206	34.77%*	Production
Combabula 208	34.77%*	Production
Combabula 209	34.77%*	Production
Combabula 221	34.77%*	Production
Combabula 234	34.77%*	Production
Combabula 235	34.77%*	Production
Combabula 248	34.77%*	Production
Combabula 283	34.77%*	Production
Combabula 29	34.77%*	Production
Combabula 45	34.77%*	Production
Combabula 46	34.77%*	Production
Combabula 47	34.77%*	Production
Combabula 48	34.77%*	Production

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Combabula 66	34.77%*	Production
Combabula 76	34.77%*	Production
Combabula 79	34.77%*	Production
Combabula 84	34.77%*	Production
Combabula 88	34.77%*	Production
Combabula 95	34.77%*	Production
Combabula 96	34.77%*	Production
Combabula North 284	34.77%*	Production
Combabula North 323	34.77%*	Production
Combabula North 376	34.77%*	Production
Combabula North 377	34.77%*	Production
Combabula Pond MB1	37.50%*	GWM
Combabula Pond MB3	37.50%*	GWM
Condabri 183	37.50%*	Production
Condabri 189	37.50%*	Production
Condabri 191	37.50%*	Production
Condabri 192	37.50%*	Production
Condabri 363	37.50%*	Production
Condabri 364	37.50%*	Production
Condabri 365	37.50%*	Production
Condabri 366	37.50%*	Production
Condabri 367	37.50%*	Production
Condabri 368	37.50%*	Production
Condabri 369	37.50%*	Production
Condabri 370	37.50%*	Production
Condabri 371	37.50%*	Production
Condabri 372	37.50%*	Production
Condabri 374	37.50%*	Production
Condabri 376	37.50%*	Production
Condabri 377	37.50%*	Production
Condabri 378	37.50%*	Production
Condabri 388	37.50%*	Production
Condabri North 184	37.50%*	Production
Condabri North 24	37.50%*	Production
Condabri North 336	37.50%*	Production
Condabri North 76	37.50%*	Production
David 111	11.7%	Production
David 112	11.7%	Production
David 113	11.7%	Production
David 123	11.7%	Production
David 131	11.7%	Production
David 133	11.7%	Production
Gilbert Gully MB1-G	37.5%*	GWM
Glendower 109	11.7%	Production
Glendower 110	11.7%	Production
Glendower 119	11.7%	Production
Glendower 120	11.7%	Production
Glendower 138	11.7%	Production

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Glendower 139	11.7%	Production
Glendower 140	11.7%	Production
Glendower 159	11.7%	Production
Glendower 160	11.7%	Production
Glendower 170	11.7%	Production
Glendower 171	11.7%	Production
Glendower 172	11.7%	Production
Glendower 174	11.7%	Production
Glendower 177	11.7%	Production
Glendower 178	11.7%	Production
Glendower 179	11.7%	Production
Glendower 182	11.7%	Production
Glendower 183	11.7%	Production
Glendower 186	11.7%	Production
Glendower 187	11.7%	Production
Glendower 188	11.7%	Production
Glendower 189	11.7%	Production
Glendower 190	11.7%	Production
Glendower 193	11.7%	Production
Glendower 194	11.7%	Production
	11.7%	
Glendower 195		Production
Glendower 196	11.7%	Production
Glendower 197	11.7%	Production
Glendower 199	11.7%	Production
Glendower 203		Production
Glendower 204	11.7%	Production
Glendower 205	11.7%	Production
Glendower 213	11.7%	Production
Glendower 214	11.7%	Production
Glendower 215	11.7%	Production
Glendower 5	11.7%	Production
Harry 117	11.7%	Production
Harry 118	11.7%	Production
Harry 119	11.7%	Production
Harry 135	11.7%	Production
Isabella 149	11.7%	Production
Isabella 159	11.7%	Production
Isabella 219	11.7%	Production
Jen 108	11.7%	Production
Jen 109	11.7%	Production
Jen 112	11.7%	Production
Jen 113	11.7%	Production
Jen 123	11.7%	Production
Jen 132	11.7%	Production
Jen 133	11.7%	Production
Kenya East 133	11.7%	Production
Kenya East 138	11.7%	Production
Kenya East 154	11.7%	Production
Kenya East 155	11.7%	Production

Basin / Area Development Wells	Origin Effective Interest %	Well Status
Lauren 100	15.2%	Production
Lauren 102	15.2%	Production
Lauren 103	15.2%	Production
Lauren 104	15.2%	Production
Lauren 105	15.2%	Production
Lauren 106	15.2%	Production
Lauren 112	15.2%	Production
Lauren 113	15.2%	Production
Lauren 114	15.2%	Production
Lauren 115	15.2%	Production
Lauren 116	15.2%	Production
Lauren 117	15.2%	Production
Lauren 124	15.2%	Production
Lauren 127	15.2%	Production
Lauren 139	15.2%	Production
Matilda John 207	15.2%	Production
Matilda John 217	15.2%	Production
Matilda John 218	15.2%	Production
Matilda John 226	15.2%	Production
Matilda John 227	15.2%	Production
Orana 87	37.5%*	Production
Orana 90	37.5%*	Production
Orana 91	37.5%*	Production
Orana 92	37.5%*	Production
Orana 93	37.5%*	Production
Orana 94	37.5%*	Production
Orana 95	37.5%*	Production
Orana 96	37.5%*	Production
Poppy 138	11.7%	Production
Poppy 139	11.7%	Production
Poppy 149	11.7%	Production
Poppy 211	11.7%	Production
Reedy Creek WB3-G	34.77%*	GWM
RubyJo 165	11.7%	Production
RubyJo 175	11.7%	Production
RubyJo 176	11.7%	Production
RubyJo 194	11.7%	Production
RubyJo 214	11.7%	Production
RubyJo 218	11.7%	Production
RubyJo 219	11.7%	Production
Talinga MB11-S	37.5%*	GWM
Talinga Pond A MB3	37.5%*	GWM
Talinga Pond A MB7	37.5%*	GWM
Zig Zag MB1-G	37.5%*	GWM

Notes:

* Denotes Origin Operatorship GWM - Ground Water Monitoring

5. EXPLORATION, EVALUATION AND CAPITAL EXPENDITURE

The tables below include total expenditure on exploration and evaluation activities and capital expenditure on development and production activities. They include capitalised interest and exclude expenditure on acquisitions. Expenditure in the current financial year is preliminary and is subject to audit review. Note: Numbers may not add due to rounding.

Australian Operations			September		
	This	Previous	Quarter	YTD	YTD
A\$m	Quarter	Quarter	2012	2013/14	2012/13
Exploration / Evaluation	17	3	12	17	12
Development / PP&E	47	60	132	47	132
Total	64	63	144	64	144
New Zealand Operations			September		
	This	Previous	Quarter	YTD	YTD
NZ\$m	Quarter	Quarter	2012	2013/14	2012/13
Exploration / Evaluation	1	0	2	1	2
Development / PP&E	3	5	2	3	2
Total	4	5	4	4	4
International Operations	This	Previous	September Quarter	YTD	YTD
	This Ouarter	Previous Ouarter	Quarter	YTD 2013/14	YTD 2012/13
A\$m	This Quarter	Previous Quarter		YTD 2013/14	YTD 2012/13
	Quarter	Quarter	Quarter 2012	2013/14	2012/13
A\$m Exploration / Evaluation	Quarter 19	Quarter 10	Quarter 2012 19	2013/14 19	2012/13 19
A\$m Exploration / Evaluation Development / PP&E	Quarter 19 0	Quarter 10 0	Quarter 2012 19 0	2013/14 19 0	2012/13 19 0
A\$m Exploration / Evaluation Development / PP&E Total	Quarter 19 0	Quarter 10 0	Quarter 2012 19 0 19	2013/14 19 0	2012/13 19 0
A\$m Exploration / Evaluation Development / PP&E Total Total	Quarter 19 0 19	Quarter 10 0 10	Quarter 2012 19 0 19 September	2013/14 19 0 19	2012/13 19 0 19
A\$m Exploration / Evaluation Development / PP&E Total Total (excluding APLNG)	Quarter 19 0 19 This	Quarter 10 0 10 Previous	Quarter 2012 19 0 19 September Quarter	2013/14 19 0 19 YTD	2012/13 19 0 19 YTD
A\$m Exploration / Evaluation Development / PP&E Total Total (excluding APLNG) A\$m	Quarter 19 0 19 This Quarter	Quarter 10 0 10 Previous Quarter	Quarter 2012 19 0 19 September Quarter 2012	2013/14 19 0 19 YTD 2013/14	2012/13 19 0 19 YTD 2012/13
A\$m Exploration / Evaluation Development / PP&E Total Total (excluding APLNG) A\$m Exploration / Evaluation	Quarter 19 0 19 This Quarter	Quarter 10 0 10 Previous Quarter 13	Quarter 2012 19 0 19 September Quarter 2012 33	2013/14 19 0 19 YTD 2013/14 38	2012/13 19 0 19 YTD 2012/13

Origin is required to contribute cash to APLNG (in proportion to its equity holding) where APLNG has insufficient cash from other sources to fund its activities. Origin began making cash contributions in the December Quarter 2011.

Origin's contribution to APLNG			September		
	This	Previous	Quarter	YTD	YTD
A\$m	Quarter	Quarter	2012	2013/14	2012/13
Contribution	742	442	119	742	119

^{*} Origin's share in APLNG was diluted from 42.5% to 37.5% on 12 July 2012.

6. ORIGIN'S INTERESTS

6.1 Origin held interests in the following permits during the Quarter:

Basin/Project Area	Interest		Basin/Project Area	Interest		Basin/Project Area	Interest	
AUSTRALIA			AUSTRALIA			AUSTRALIA		
COOPER BASIN (South Australia)			Spring Gully			Bass Basin (Tasmania)	42.50%	
•	40 540/		ATP 592P and PLs 195, 203,	35.44%	* 1	T/L1 T/18P	42.50% 39.00%	*
Patchawarra East Block PPLs	10.54%		268(A), 414(A), 415(A),	33.44/0		1/10	39.00%	
SA Unit PPLs Reg Sprigg West Unit (PPL	13.19% 7.90%		416(A), 417, 418(A) and			PERTH BASIN (Western		
194/PPL 211)	7.70%		419(A) - PL 204	37.40%	*1	Australia)		
COOPER BASIN (Queensland)			PL 200	35.89%	*1	EP320 and L11 L 14	67.00%	*
SWQ Unit Subleases	16.74%					L1/L2 (Excluding Dongara,	49.19% 50.00%	
Aquitaine A * B Blocks of ATP	25.00%		Talinga/ Orana	27 50%	*1	Mondarra and Yardarino)	30.0070	
259P and associated PLs Aguitaine C Block of ATP	27.00%		ATP 692P, PLs 209, 215, 216(A), 225(A), 226, 272,	37.50%				
259P and associated PLs	27.00%		289(A), 445(A) and 481(A)			BONAPARTE BASIN (Western Australia &		
Wareena Block of ATP 259P	10.00%		Kenya/			Northern Territory)		
and associated PLs			- Argyle/Lauren/Bellevue			WA 454P	50.00%	*3
GALILEE BASIN (Queensland)			PLs 179, 180, 228, 229 and	15.23%	1	NT/RL1 and WA6R	5.00%	
ATP 666P	37.50%	*1	263 PL 247	11.02%	1	NEW ZEALAND		
ATP 667P	37.50%	*1	ATP 648P Shallows, PLs	11.72%	1	TARANAKI BASIN		
ATP 668P	37.50%	*1	257, 273, 274, 275, 278,	11.72/0		PML 38146	50.00%	*
SURAT BASIN (Queensland)			279, 442, 466 and 474			PMP 38151	100.00%	*
PL 14	100.00%	*	Peat			PMP 38155	100.00%	*
PL 74	69.00%	*	PL 101	37.50%	*1	PML 38138	100.00%	*2
PL 30	75.00%	*				PML 38139	100.00%	*2
PLs 21, 22, 27 and 64	87.50%	*	Other Bowen Basin		_	PML 38140	100.00%	*2
PLs 53, 174 and 227	100.00%	*	ATP 804P	10.99%	1	PML 38141	100.00%	*2
ATP 470P Redcap	90.00%	*	ATPs 653P and 745P and PLs 420(A), 421(A) and	8.94%		CANTERBURY BASIN		
PL 264	90.00%	*	440(A)			PEP 38264	50.00%	
ATP 470P Formosa Downs	42.72%	*	PLs 219 and 220	37.50%	*1			
PL 71 (Exploration)	72.00%	*	Other Surat Basin			KENYA		
PL 71 (Production) PL 70	90.00% 100.00%	*	ATP 606P and PLs 297, 404,	34.77%	* 1	LAMU BASIN		
ATP 471P Weribone Pooling	50.64%	*	408, 403(A), 405(A),			L8	20.00%	
Area			406(A), 407(A), 412(A), 413(A) and 444(A)			VIETNAM		
ATP 336P and PLs 10W, 11W, 12W, 28, 69 and 89	46.25%		ATP 631P, PLs 281(A) and	6.79%	1			
PL 11 Snake Creek East 1	25.00%		282(A) ATP 663P and PLs 434(A),	37.50%	*1	SONG HONG BASIN		
Exclusion Zone	EO 00%	*	435(A), 436(A), 437(A),	37.13373		Block 121	45.00%	*
ATP 647P (Block 2656 only) ATP 754P	50.00% 50.00%	*	438(A) and 439(A) 973P, and PLs 265, 266 and	37.50%	*1	BOTSWANA		
ATP 788P Shallows	100.00%	*	267	37.30%		DI 12 1/2010 DI 125 /2010		
ATP 471P Bainbilla	24.75%		ATP 972P, and PLs 469(A),	34.77%	*1	PL134/2010, PL135/2010, PL136/2010	50.00%	4
			_ 470(A) and 471(A) ATP 1178P	37.50%	*1			
DENISON TROUGH (Queensland)			ONSHORE OTWAY BASIN			Notes:		
,			ONSTIONE OTWAT DASIN			* Operatorship		
PLs 41, 42, 43, 44, 45, 54, 67, 173, 183 and 218	18.75%	* 1	Victoria				,	,
ATP 337P (Denison Trough) -	18.75%	*1	PPLs 6,9 and PRL1	90.00%	*	¹ Interest held through 37.5% APLNG Joint Venture	ownership o	Ť
Production	40.75%	1	PPLs 4, 5, 7, 10 and 12	100.00%		² Divestment to New Zealand	l Energy Corp	was
ATP 337P (Denison Trough) - Exploration, PLs 449(A),	18.75%	•	PPL 2 Ex (Iona Exclusion)	100.00%	*	completed on 29 October 20		was
450(A), 451(A), 454(A) and			PPL 8	100.00%		30		
457(A) ATP 337P Mahalo and	11.25%	1	OFFSHORE OTWAY BASIN			³ Origin is on title but farmir Offshore Exploration Pty Ltd		
PL448(A)			Victoria					
ATP 553P	18.75%	1	- Vic/P42 (V)	100.00%	*	⁴ Interest held though 50% of Energy Resources (Pty) Ltd (ubu
CSG (Queensland)	·		Vic/P43	67.23%	*	company)	a Docsmana	
Fairview			Vic/L23	67.23%	*			
ATP 526P and PLs 90, 91,	8.97%	1	Vic/RL2(V)	100.00%	*			
92, 99, 100, 232, 233, 234,	J. ///0		Tasmania					
235 and 236			T/L2, T/L3 and T/30P	67.23%	*			
			T/34P	82.30%	*			
			1 / J *I F	04.30%				

7. CONVERSION FACTORS AND ABBREVIATIONS

7.1 Conversion Factors

Crude oil 0.00583 PJ/kbbls
Condensate 0.00541 PJ/kbbls
LPG 0.0493 PJ/ktonnes
Ethane 0.0517 PJ/ktonnes

7.2 Abbreviations

APLNG Australia Pacific LNG - an incorporated Joint Venture between Origin,

ConocoPhillips and Sinopec

barrels an international measure of oil production. 1 barrel = 159 litres

Bopd barrels of oil per day

BTEX benzene, toluene, ethylbenzene, xylene

bwpd barrels of water per day
C&C cased and completed
C&S cased and suspended

CSG coal seam gas
CTU coiled tubing unit
DA designated authority

DERM Department of Environmental and Resource Management

EA environmental authority

FEED front end engineering & design

FID final investment decision
GJ gigajoule = 10⁹ joules
joule a measure of energy

Kbbls Kilo barrels = 1,000 barrels
Ktonnes Kilo tonnes = 1,000 tonnes
LNG liquefied natural gas
LPG liquid petroleum gas

MDRT measured depth from rotary table mmscfd million standard cubic feet per day

mtpa million tonnes per annum
P&A plugged and abandoned
P&S plugged and suspended
PCA potential commercial area
PSC production sharing contract

PSDM post stack depth migration (seismic processing)

PJ petajoule = 10¹⁵ joules

PJe petajoule equivalent, a measure used to express the volume of different petroleum

products on the basis of the energy contained in the product

Pigging pipeline examination and maintenance

QGC Queensland Gas Company
Spudding to commence drilling a well
SWQ South West Queensland

TD total depth

TJ terajoule = 10¹² joules TJ/d terajoules per day

TVDSS Total Vertical Depth Subsea

Water Inj water injection well