

# MINERAL AND PETROLEUM EXPLORATION

AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) MON 30 NOV 2015

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## INQUIRIES

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## NOTES

FORTHCOMING ISSUES ISSUE (Quarter) RELEASE DATE

December 2015 29 February 2016

March 2016 30 May 2016

June 2016 29 August 2016

September 2016 28 November 2016

CHANGES TO THIS ISSUE

■ There are no changes to this issue

ABBREVIATIONS ABS Australian Bureau of Statistics

GST goods and services tax

JPDA Joint Petroleum Development Area

UNTAET United Nations Transitional Administration in East Timor

WST wholesale sales tax
ZOC Zone of Cooperation

David W. Kalisch

Australian Statistician

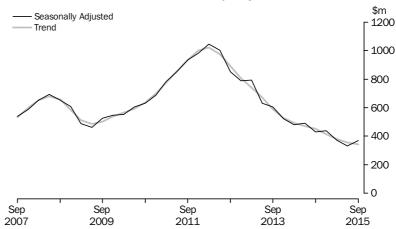
#### MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TOTAL EXPENDITURE

The trend estimate for total mineral exploration expenditure fell 3.5% (or -\$12.3m) to \$344.1m in the September quarter 2015. The largest contributor to the fall in the trend estimate this quarter was Western Australia (down 3.1% or -\$6.5m). The current quarter estimate is 23.7% lower than the September quarter 2014 estimate.

The seasonally adjusted estimate for mineral exploration expenditure rose 11.6% (or +\$38.5m) to \$369.5m in the September quarter 2015. The largest contributors to the rise this quarter was Western Australia (up 12.8% or +\$24.8m).

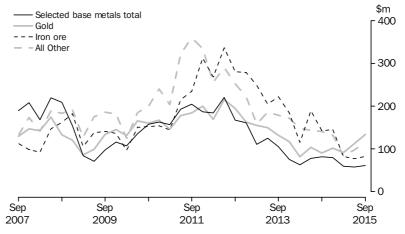
## MINERAL EXPLORATION, Seasonally adjusted and trend



In original terms, mineral exploration expenditure rose 14.5% (or +\$50.0m) to \$394.0m in the September quarter 2015. Exploration on areas of new deposits rose 0.9% (or +\$1.0m) and expenditure on areas of existing deposits rose 21.3% (or +\$49.0m).

In original terms, the largest increase by minerals sought came from expenditure on gold (up 19.2% or +\$21.6m). The next largest increase came from expenditure on coal (up 12.2% or +\$6.1m).

## MINERAL EXPLORATION, ORIGINAL SERIES

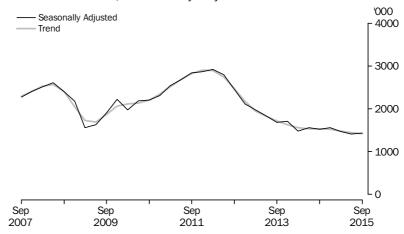


METRES DRILLED

The trend estimate for metres drilled fell 1.9% in the September quarter 2015. The current quarter estimate is 7.7% lower than the September quarter 2014 estimate.

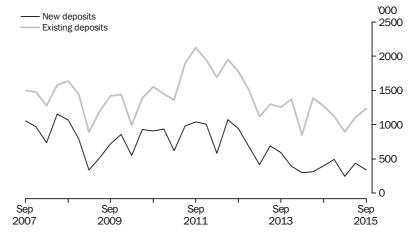
The seasonally adjusted estimate for metres drilled rose 1.9% in the September quarter 2015.





In original terms, metres drilled rose 2.1%. Drilling in areas of new deposits fell 22.1% and drilling in areas of existing deposits rose 11.8%.

## METRES DRILLED, ORIGINAL SERIES



#### PETROLEUM EXPLORATION

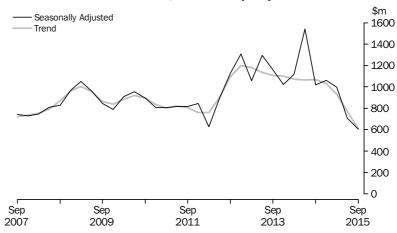
TOTAL EXPENDITURE

The trend estimate for total petroleum exploration expenditure fell 21.0% (or -\$162.3m) to \$608.8m in the September quarter 2015. Exploration expenditure on production leases fell 12.6% (or -\$20.0m), while exploration expenditure on all other areas fell 19.8% (or -\$120.9m).

The seasonally adjusted estimate for total petroleum exploration expenditure fell 14.5% (or -\$102.2m) to \$604.4m in the September quarter 2015. Exploration expenditure on production leases fell 21.0% (or -\$27.4m) and exploration expenditure on all other areas fell 22.5% (or -\$129.6m).

The largest contributor to the decrease in the trend estimate was Queensland (down 24.5% or -\$38.4m) and the largest contributor to the fall in the seasonally adjusted estimate was Queensland (down 39.1% or -\$62.3m).

## PETROLEUM EXPLORATION, Seasonally adjusted and trend

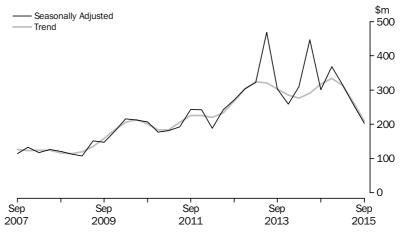


ONSHORE

The trend estimate for onshore petroleum exploration expenditure fell 20.6% (or -\$54.5m) to \$209.6m in the September quarter 2015. Expenditure on drilling fell 23.9% (or -\$39.6m), while other onshore petroleum exploration expenditure fell 13.7% (or -\$13.5m).

The seasonally adjusted estimate for onshore petroleum exploration expenditure fell 21.3% (or -\$54.9m) to \$202.5m in the September quarter 2015. Expenditure on drilling fell 40.7% (or -\$73.2m), and other onshore petroleum exploration rose 23.6% (or +\$18.3m).

## PETROLEUM EXPLORATION: ONSHORE, Seasonally adjusted and trend

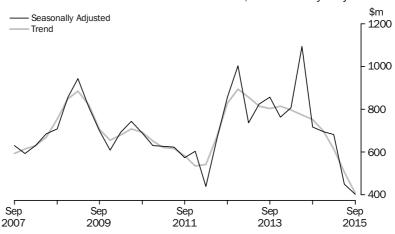


OFFSHORE

The trend estimate for offshore petroleum exploration expenditure fell 19.7% (or -\$99.8m) to \$406.9m in the September quarter 2015. Expenditure on drilling fell 26.2% (or -\$93.0m), while other offshore petroleum exploration expenditure fell 4.5% (or -\$6.8m).

The seasonally adjusted estimate for offshore petroleum exploration expenditure fell 10.5% (or -\$47.3m) to \$401.8m in the September quarter 2015. Expenditure on drilling fell 15.1% (or -\$46.4m), and other offshore petroleum exploration expenditure fell 0.6% (or -\$0.8m).

#### PETROLEUM EXPLORATION: OFFSHORE, Seasonally adjusted and trend





## PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

		XPLORATION		•••••			M ONSHORE			M OFFSHORE	_
	Actual	Expected	Actual as a proportion of expected		Actual as a proportion of expected - Adjusted	Actual	Expected	Actual as a proportion of expected	Actual		Actual as a proportion f expected
Period	\$m	\$m	%	\$m	%	\$m	\$m	%	\$m	\$m	%
• • • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •
2012-13	3 055.4	3 086.3	99.0	3 303.8	92.5	1 363.2	2 971.2	45.9	3 430.2	1 135.3	302.1
2013-14	2 108.9	2 445.1	86.2	2 638.9	79.9	1 312.5	2 819.6	46.6	3 512.0	2 003.3	175.3
2014-15	1 578.7	1 500.0	105.3	1 684.2	93.7	1 254.3	2 257.6	55.6	2 537.3	1 665.6	152.3
2013-14											
Jun half	923.1	938.0	98.4	1 027.2	89.9	703.5	1 524.0	46.2	1 902.4	716.7	265.4
2014-15											
Dec half	916.9	864.6	106.1	976.1	93.9	729.7	1 438.9	50.7	1 403.4	1 149.3	122.1
Jun half	661.8	635.4	104.2	708.1	93.5	524.6	818.7	64.1	1 133.9	516.3	219.6
2015-16											
Dec half	nya	606.5	nya	720.9	nya	nya	432.5	nya	nya	376.3	nya

nya not yet available



## MINERAL EXPLORATION, (Other than for petroleum)—Expenditure and metres drilled

	EXPENDITU	RE				METRES DI	RILLED			
	New deposits	Existing deposits	Total	Seasonally Adjusted Total	Trend Total	New deposits	Existing deposits	Total	Seasonally Adjusted Total	Trend Total
Period	\$m	\$m	\$m	\$m	\$m	'000	'000	'000	'000	'000
• • • • • • • • • •	• • • • • • •	• • • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •
2012-13	1 018.3	2 037.1	3 055.4			2 730	5 690	8 420		
2013-14	682.3	1 426.5	2 108.8			1 598	4 856	6 453		
2014–15	485.0	1 091.0	1 575.0			1 569	4 395	5 963		
2013-14										
December	175.4	372.0	547.4	523.0	528.6	396	1 368	1 764	1 708	1 625
March	121.0	287.0	408.0	479.8	494.1	300	848	1 148	1 477	1 556
June	144.0	371.0	515.0	492.4	469.4	309	1 386	1 695	1 553	1 528
2014-15										
September	129.0	326.0	455.0	429.8	450.7	397	1 272	1 669	1 521	1 531
December	151.0	308.0	459.0	438.5	415.3	492	1 121	1 613	1 557	1 524
March	91.0	227.0	317.0	373.2	379.4	242	899	1 141	1 472	1 479
June	114.0	230.0	344.0	330.9	356.2	438	1 103	1 540	1 410	1 440
2015-16										
September	115.0	279.0	394.0	368.9	343.6	341	1 233	1 573	1 437	1 413

not applicable

<sup>(</sup>a) Refer to Explanatory Notes paragraphs 15-17.

	New							
	South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
	waics	Victoria	Queensiana	Australia	Australia	rasmania	remedy	Additalla
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • •	• • • • • •				• • • • • • • •	• • • • • • • •	• • • • • • • •
			IN E	W DEPOS	115			
2012-13	50.6	12.5	223.8	102.4	573.8	16.6	38.6	1 018.3
2013-14	46.3	9.2	161.0	52.8	381.0	8.2	23.2	682.3
2014–15	39.5	6.1	108.7	45.5	250.8	7.5	27.5	485.0
2013-14								
December	12.9	1.5	51.8	14.4	86.8	1.4	6.6	175.4
March	14.9	2.7	32.7	10.7	53.3	2.3	4.2	121.0
June	5.6	2.5	24.4	12.6	92.9	0.7	4.8	144.0
2014–15	0.7		04.0	110	60.0		7.0	100.0
September December	8.7 10.3	np 1.6	24.8 41.7	14.6 14.0	69.9 73.9	np 2.0	7.8 7.3	129.0 151.0
March	10.7	0.8	17.8	10.8	43.3	2.0	5.5	91.0
June	9.7	np	24.4	6.1	63.7	np	7.0	114.0
2015-16								
September	11.6	2.1	21.3	6.0	60.6	1.3	11.9	115.0
	• • • • • •	• • • • • •	• • • • • • • •			• • • • • • • •		
			EXIS	TING DEP	OSITS			
2012-13	136.7	26.0	439.9	128.0	1 189.6	23.9	92.9	2 037.1
2013-14	92.6	23.4	290.4	63.5	839.0	21.9	95.1	1 426.5
2014–15	83.0	16.7	202.6	41.3	666.6	12.4	68.3	1 091.0
2013-14								
December	21.5	6.6	69.7	21.7	221.5	7.4	23.6	372.0
March	25.8	5.2	67.5	14.1	153.0	4.1	17.2	287.0
June	22.3	6.3	74.4	16.4	216.8	4.9	29.7	371.0
2014–15 September	25.9	np	62.8	10.7	197.2	np	19.6	326.0
December	22.1	3.5	61.2	13.5	188.4	2.2	17.6	308.0
March	19.0	4.9	35.1	11.3	139.9	2.4	14.0	227.0
June	16.0	np	43.5	5.7	141.0	np	17.2	230.0
2015–16								
September	17.8	4.3	55.3	5.0	172.5	2.6	21.5	279.0
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •		• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
				TOTAL				
2012-13	187.4	38.6	663.7	230.4	1 763.4	40.5	131.6	3 055.4
2013–14 2014–15	138.9 122.1	32.6 22.8	451.4 311.3	116.3 86.7	1 220.0 917.3	30.1 19.9	118.3 95.7	2 108.8 1 575.0
2013–14								
December	34.4	8.1	121.5	36.1	308.3	8.8	30.2	547.4
March	40.7	7.9	100.2	24.8	206.2	6.4	21.4	408.0
June	27.9	8.8	98.8	29.1	309.7	5.6	34.5	515.0
2014–15	0							
September December	34.6	5.6	87.6	25.3	267.1	7.5	27.3	455.0
December March	32.4 29.7	5.1 5.8	102.9 52.9	27.5 22.2	262.3 183.2	4.2 4.4	24.8 19.4	459.0 317.0
June	29.7 25.4	6.4	67.9	11.7	204.8	3.8	24.2	344.0
2015–16		0. 1	01.0		201.0	0.0	2 1.2	011.0
September	29.4	6.4	76.6	11.0	233.1	3.9	33.4	394.0

 $<sup>{\</sup>sf np} \quad \text{ not available for publication but included in totals where applicable, unless otherwise indicated} \\$ 

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	ORIGINAL		• • • • • • • •	• • • • • • • •	• • • • • • •
2012-13	187.4	38.6	663.7	230.4	1 763.4	40.5	131.6	3 055.4
2013–14 2014–15	138.9 122.1	32.6 22.8	451.4 311.3	116.3 86.7	1 220.0 917.3	30.1 19.9	118.3 95.7	2 108.8 1 575.0
2013-14								
December	34.4	8.1	121.5	36.1	308.3	8.8	30.2	547.4
March	40.7	7.9	100.2	24.8	206.2	6.4	21.4	408.0
June	27.9	8.8	98.8	29.1	309.7	5.6	34.5	515.0
2014–15								
September	34.6	5.6	87.6	25.3	267.1	7.5	27.3	455.0
December	32.4	5.1	102.9	27.5	262.3	4.2	24.8	459.0
March	29.7	5.8	52.9	22.2	183.2	4.4	19.4	317.0
June	25.4	6.4	67.9	11.7	204.8	3.8	24.2	344.0
2015–16								
September	29.4	6.4	76.6	11.0	233.1	3.9	33.4	394.0
• • • • • • • • • •		• • • • • •	• • • • • • • •					
			SEASO	NALLY AD.	JUSTED			
2013-14								
December	34.3	8.1	111.8	32.6	298.9	8.6	28.6	523.0
March	40.3	7.9	123.8	28.8	242.3	6.6	30.1	479.8
June	28.7	8.8	94.5	27.2	293.2	5.9	34.2	492.4
2014-15								
September	34.1	5.6	83.1	26.6	251.2	7.0	22.2	429.8
December	32.5	5.1	94.3	24.6	254.2	4.2	23.7	438.5
March	29.2	5.8	65.0	25.6	216.1	4.5	27.1	373.2
June	26.2	6.4	65.3	11.0	194.1	4.0	23.9	330.9
2015–16								
September	28.9	6.4	72.8	11.6	218.3	3.6	27.3	368.9
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •		• • • • • • •		• • • • • • • •	• • • • • • •
				TREND				
2013-14								
December	36.4	8.1	118.3	29.9	299.1	8.0	28.9	528.6
March	34.4	8.2	110.4	28.7	274.6	7.1	30.6	494.1
June	33.8	7.6	100.7	27.7	263.7	6.4	29.4	469.4
2014-15								
September	32.5	6.3	90.4	26.8	262.4	5.8	26.5	450.7
December	31.1	5.5	80.3	25.3	243.7	5.1	24.3	415.3
March	29.7	5.6	73.6	21.0	220.5	4.4	24.6	379.4
June	27.9	6.1	68.3	15.5	208.5	3.9	25.9	356.2
2015–16								
September	27.6	6.5	66.7	11.2	201.7	3.8	26.2	343.6

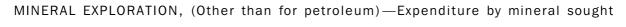


# SELECTED BASE METALS

Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	• \$m
				NEW	SOUTH	WALES					
26.7	np	np	54.9	36.8	np	np	np	74.8	np	16.5	187.4
20.4	np	np	32.6	25.6	np	np	np	60.2	np	16.8	138.9
np	16.2	np	40.7	23.5	np	np	_	45.0	0.2	10.0	122.1
4.3	np	np	6.9	7.6	np	np	np	13.3	np	6.0	34.4
7.4	np	np	10.7	6.6	np	np	_	18.4	np	3.7	40.7
4.9	2.7	np	7.6	5.1	np	np	np	10.2	np	4.3	27.9
5.2	np	np	8.2	7.9	np	np	_	16.8	np	1.5	34.6
np	5.7	np	12.5	6.9	np	np	_	9.8	np	2.8	32.4
6.2	np	np	9.9	4.7	_	np	_	9.9	np	3.9	29.7
6.1	np	np	10.2	4.0	np	np	_	8.4	np	1.7	25.4
6.5	np	np	10.2	5.1	np	np	_	11.1	np	1.5	29.4
					VICTORI	Α					
np	an	an	5.1	19.5	an	4.7	_	an	_	5.6	38.6
•	•				•		_		_		32.6
0.4	0.2	np	np	12.8	np	3.9	_	0.1	_	4.6	22.8
np	_	np	np	4.6	np	0.3	_	np	_	1.5	8.1
np	np	np	0.4	2.3	np	np	_	np	_	1.6	7.9
np	np	np	0.4	4.1	np	np	_	np	_	2.0	8.8
np	np	np	0.2	1.9	np	np	_	np	_	2.0	5.6
np	np	np	0.2	3.0	np	np	_	np	_	1.2	5.1
np	np	_	0.1	np	np	1.2	_	np	_	0.8	5.8
np	np	_	np	np	np	1.2	_	np	_	0.7	6.4
np	np	_	np	np	np	np	_	np	_	0.9	6.4
				Q	UEENSLA	AND					
91.1	10.7	3.1	104.8	74.6	np	1.6	10.8	453.9	np	15.7	663.7
36.7	np	np	43.9	60.9	0.2	np	7.8	324.2	np	12.3	451.4
41.9	9.4	0.3	51.6	43.2	0.2	np	3.4	199.9	np	10.5	311.3
8.0	np	np	10.0	19.1	_	np	2.2	86.5	np	3.3	121.5
5.1	np	np	6.9	9.4	np	np	0.9	80.9	np	1.6	100.2
8.3	np	np	10.3	15.0	0.1	np	np	67.6	np	3.5	98.8
11.3	np	np	14.4	7.6	_	np	0.9	61.3	np	2.3	87.6
11.7	np	np	14.7	18.1	0.1	np	1.0	65.2	np	3.4	102.9
8.4	np	np	9.6	8.0	_	np	0.6	32.6	np	1.7	52.9
10.5	np	np	12.9	9.6	_	np	0.9	40.8	np	3.2	67.9
11.0	5.6	0.1	16.6	11.9	np	np	0.7	43.8	np	3.4	76.6
	26.7 20.4 np 4.3 7.4 4.9 5.2 np 6.2 6.1 6.5  np 1.3 0.4  np	lead,   zinc   sm   sm   sm   sm   sm   sm   sm   s	lead,   Nickel,   cobalt   \$m	lead,   Nickel,   Copper   zinc   cobalt   Total   \$m	Copper         zinc         cobalt         Total         Gold           \$m         \$m         \$m         \$m         \$m           26.7         np         np         54.9         36.8           20.4         np         np         32.6         25.6           np         16.2         np         40.7         23.5           4.3         np         np         6.9         7.6           7.4         np         np         10.7         6.6           4.9         2.7         np         7.6         5.1           5.2         np         np         8.2         7.9           np         5.7         np         12.5         6.9           6.2         np         np         9.9         4.7           6.1         np         np         10.2         4.0           6.5         np         np         10.2         5.1     The company of the	Copper   Since   Cobalt   Total   Gold   G	Copper   Sinc   Cobalt   Total   Gold   Gold   Gre   Sands   San   San			Copper   zinc   cobalt   Total   Gold   ore   sands   Uranium   Coal   Diamonds   Sm   Sm   Sm   Sm   Sm   Sm   Sm   S	

otherwise indicated

nil or rounded to zero (including null cells)
 not available for publication but included in totals where applicable, unless
 (a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.





continued

# SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • •	• • • • • •		• • • • • •	• • • • • • •	SOU	JTH AUS1	TRALIA	• • • • • • • •	• • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
2012–13	106.4			125.6		47.0			1.0		17.6	230.4
2012-13 2013-14	52.0	np 9.7	np 2.6	64.3	np np	47.9 np	np np	np 4.8	np	np np	17.6 9.4	116.3
2013-14	37.2	5.7	2.6	45.5	np	np	np	np	np	np	7.6	86.7
2013–14												
	11.0	2.6	0.9	14.5	nn	nn	nn	nn	nn	nn	2.1	36.1
December March	15.4	np		14.5 17.6	np np	np 2.2	np np	np 0.6	np np	np	2.1	24.8
June	14.7	1.3	np 0.5	16.6	np	7.9	np	0.8	np	np np	2.4	29.1
2014–15	17.7	1.0	0.5	10.0	пр	1.5	ΠP	0.0	пр	пр	2.7	23.1
September	12.1	1.4	0.4	14.0	np	5.4	np	1.2	np	np	2.0	25.3
December	10.6	2.0	0.9	13.4	1.6	np	np	np	np	np	1.6	27.5
March	10.4	0.9	0.7	12.0	1.8	5.2	np	0.3	np	np	2.0	22.2
June	4.0	1.4	0.7	6.1	1.1	0.9	np	0.8	np	np	2.1	11.7
2015–16												
September	2.6	1.6	0.5	4.7	0.8	np	0.5	0.6	_	np	1.6	11.0
• • • • • • • • • •	• • • • • •		• • • • • •	• • • • • • •	WEST	ERN AUS	STRALIA	• • • • • • • • •	• • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
2012 12	76.6	16.6	157.0	250.4				25.4	10 E	0.7	62.0	1 700 4
2012-13 2013-14	76.6	16.6	157.2	250.4	466.5	921.8	15.1	35.1 22.6	10.5	0.7	63.9	1 763.4 1 220.0
2013-14 2014-15	58.4 33.6	14.0 15.2	94.9 78.5	167.3 127.2	295.3 274.3	634.4 406.2	16.4 14.1	26.4	9.5 2.7	1.7 2.9	73.4 63.8	917.3
	00.0	20.2	. 0.0		2	.00.2		20		2.0	00.0	020
2013–14	400	4.0	47.0	00.0	70.0	450.0	F 0	<b>5</b> 4			47.0	200.0
December	16.9	4.3	17.9	39.2	76.2	158.9	5.6	5.4	np	np	17.6	308.3
March	6.6 13.3	2.9	15.5	25.0	56.2	102.1	3.7	3.7 6.7	np	np	13.4	206.2 309.7
June <b>2014–15</b>	13.3	3.5	24.8	41.6	66.6	167.3	2.8	6.7	np	np	22.4	309.7
September	13.6	3.9	23.8	41.2	61.9	130.3	6.3	4.7	0.6	1.0	21.1	267.1
December	9.6	4.9	21.0	35.5	64.0	131.5	2.0	9.0	np	np	17.9	262.3
March	4.6	2.2	18.1	24.9	67.4	70.0	3.0	5.9	np	np	11.2	183.2
June	5.7	4.3	15.6	25.6	81.0	74.4	2.8	6.8	np	np	13.6	204.8
2015–16												
September	8.4	3.3	13.9	25.6	94.8	79.1	3.5	8.5	np	np	20.1	233.1
• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •	• • • • • • • •	TACMAN		• • • • • • • • •	• • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
						TASMAN						
2012-13	np	np	0.4	8.5	np	np	np	_	np	_	18.0	40.5
2013-14	np	np	0.1	5.4	np	np	_	_	np	_	11.4	30.1
2014–15	np	np	np	np	np	5.4	_	_	np	_	8.0	19.9
2013–14												
December	np	np	np	np	np	1.4	_	_	np	_	4.2	8.8
March	np	np	np	1.1	np	1.1	_	_	np	_	2.4	6.4
June <b>2014–15</b>	np	np	np	0.5	np	0.9	_	_	np	_	1.7	5.6
September	np	np	np	0.9	np	2.4	_	_	np	_	3.3	7.5
December	np	np	_	1.3	0.4	np	_	_	np	_	1.7	4.2
March	np	np	_	1.4	np	np	_	_		_	1.6	4.4
June	np	np	_	np	np	np	_	_	_	_	1.3	3.8
2015–16											0.0	• •
September	np	np	_	np	np	np	_	_	_	_	2.8	3.9

nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

<sup>(</sup>a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.



## MINERAL EXPLORATION, (Other than for petroleum)—Expenditure by mineral sought

continued

SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • •	• • • • • •	• • • • •		• • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
					NORT	HERN TE	RRITORY					
2012-13	9.6	4.6	0.1	14.3	46.5	np	1.7	10.1	np	np	24.6	131.6
2013-14	np	np	np	6.7	27.7	36.2	0.8	8.7	np	np	27.2	118.3
2014–15	4.1	np	np	8.7	35.5	np	0.5	7.9	np	np	25.6	95.7
2013-14												
December	1.3	np	np	2.3	6.3	7.6	np	2.2	np	np	8.5	30.2
March	0.4	np	np	1.3	5.0	np	np	1.1	_	np	5.1	21.4
June	0.6	np	np	1.4	10.3	12.1	np	1.5	np	np	6.8	34.5
2014–15												
September	np	np	np	2.7	9.7	np	np	3.0	np	np	6.4	27.3
December	1.5	np	np	2.6	7.9	np	0.2	2.4	np	np	7.2	24.8
March	0.7	np	np	1.3	5.8	np	np	0.7	np	np	5.0	19.4
June	np	np	np	2.1	12.0	np	np	1.9	np	np	7.0	24.2
2015–16												
September	1.3	np	np	3.0	16.9	np	np	5.6	np	np	6.6	33.4
				• • • • • •		• • • • • • •						
						AUSTRAL	-IA					
2012-13	319.3	79.9	164.5	563.7	661.7	1 011.2	37.8	69.4	544.0	6.3	161.2	3 055.4
2013-14	176.7	45.8	99.4	321.9	434.3	710.5	np	43.8	398.7	np	156.3	2 108.8
2014–15	144.4	51.9	82.6	279.0	395.7	447.8	27.1	40.6	251.7	5.3	129.1	1 575.0
2013-14												
December	43.5	12.3	19.2	75.0	116.5	184.2	8.1	11.0	106.4	3.1	43.0	547.4
March	36.2	10.1	16.8	63.0	81.7	115.2	6.5	6.4	101.8	2.5	30.5	408.0
June	42.5	10.3	25.6	78.4	103.9	189.0	6.5	10.4	80.9	2.7	42.8	515.0
2014-15												
September	44.2	13.1	24.3	81.7	90.0	142.9	10.7	9.9	80.3	1.8	38.0	455.0
December	40.8	16.9	22.5	80.1	101.7	145.1	4.4	12.8	78.0	1.5	35.6	459.0
March	31.3	8.7	19.2	59.2	91.6	82.5	6.2	7.5	43.4	0.9	26.0	317.0
June	28.1	13.2	16.7	58.0	112.4	77.2	5.8	10.4	50.1	1.2	29.5	344.0
2015-16												
September	30.2	16.4	14.7	61.4	133.7	82.2	6.6	15.4	56.3	1.6	36.6	394.0

nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

<sup>(</sup>a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.

	ONSHOR	RE		OFFSHORE	Ξ		TOTAL EXPE	NDITURE	
	Drilling	Other	Total	Drilling	Other	Total	On production leases(a)	On all other leases(a)	Total
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
				• • • • • • • •			• • • • • • • • •	• • • • • • •	
				ORIG	INAL				
2012-13	949.3	414.0	1 363.2	2 638.5	791.7	3 430.2	1 367.3	3 426.1	4 793.4
2013-14	721.9	590.7	1 312.5	2 768.8	743.3	3 512.1	1 361.7 847.4	3 462.9	4 824.6
2014–15 2013–14	771.5	482.6	1 254.1	1 955.9	581.3	2 537.3	841.4	2 944.0	3 791.4
December	198.6	105.4	303.9	634.5	164.9	799.4	395.1	708.3	1 103.3
March	163.0	110.9	273.9	593.2	205.0	798.2	331.4	740.7	1 072.1
June	171.2	258.3	429.6	843.4	260.8	1 104.2	291.7	1 242.2	1 533.8
2014–15									
September	153.2	145.1	298.3	578.5	103.2	681.6	284.8	695.0	979.9
December	281.0	150.4	431.4	585.6	136.1	721.7	288.2	865.0	1 153.1
March	163.9	118.0	281.9	498.9	179.8	678.7	154.8	805.8	960.6
June	173.4	69.2	242.6	292.9	162.3	455.2	119.6	578.1	697.8
2015–16 September	95.4	103.5	198.9	268.9	115.1	384.0	173.6	409.3	582.9
				• • • • • • • •					
			SI	EASONALL	Y ADJU	JSTED			
2012-13	948.8	416.1	1 364.9	2 624.8	795.7	3 420.5	1 342.3	3 443.1	4 785.4
2013-14	725.7	592.6	1 318.3	2 791.0	730.0	3 521.0	1 379.5	3 459.8	4 839.3
2014–15	764.0	478.6	1 242.6	1 961.7	580.5	2 542.3	829.9	2 955.0	3 784.9
2013–14									
December	159.1	99.4	258.5	605.6	157.5	763.1	334.4	687.2	1 021.6
March	190.2 177.9	118.9 269.2	309.2 447.1	603.0	204.7 227.4	807.7	419.7	697.1	1 116.9
June <b>2014–15</b>	111.9	209.2	447.1	866.6	221.4	1 094.0	310.3	1 230.8	1 541.1
September	168.0	133.2	301.2	586.7	129.4	716.1	259.7	757.6	1 017.4
December	225.7	142.2	367.9	562.5	132.6	695.1	240.3	822.7	1 062.9
March	190.4	125.7	316.1	504.7	177.2	681.9	199.7	798.4	998.1
June	179.9	77.5	257.4	307.8	141.3	449.1	130.3	576.3	706.6
2015-16									
September	106.7	95.8	202.5	261.4	140.5	401.8	157.7	446.7	604.4
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • •	TRE	END	• • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • •
2012–13	807.8	409.2	1 217.0	2 616.9	774.7		1 302.1	3 306.4	4 608.6
2013–14	725.8		1 154.9	2 485.4		3 187.7	1 401.9	2 940.7	4 342.6
2014–15	753.1	476.3	1 229.5	1 961.6	610.5	2 572.1	854.1	2 946.2	3 802.6
2013–14	100.1	405.0	005.4	040.7	474.0	042.0	207.0	700.4	4 000 0
December	180.1	105.3	285.4	642.7	171.0	813.8 796.1	367.0 358.1	732.1	1 099.2
March June	172.9 178.4	103.6 111.9	276.5 290.3	599.6 583.4	196.5 190.3	796.1 773.8	358.1	714.5 732.9	1 072.6 1 064.1
<b>2014–15</b>	110.4	111.9	230.3	303.4	150.3	113.0	331.1	132.3	1 004.1
September	190.3	127.2	317.5	587.5	164.0	751.5	278.0	791.0	1 069.0
December	202.0	132.0	333.9	553.7	146.2	699.8	226.0	807.7	1 033.8
March	195.1	118.9	314.0	465.5	148.6	614.1	191.1	736.3	928.8
June	165.8	98.2	264.1	355.0	151.7	506.7	159.1	611.2	771.1
2015–16									
September	126.2	84.7	209.6	262.0	144.9	406.9	139.1	490.3	608.8

<sup>(</sup>a) Refer to Glossary for definition

	New South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory(a)	Total
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •	0.01018141	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •
				ORIGINAL				
2012-13	158.1	21.5	655.3	386.3	3 293.7	1.5	277.0	4 793.4
2013–14	145.5	34.4	612.6	531.3	2 990.5	0.4	509.9	4 824.6
2014–15 2013–14	102.2	16.3	751.6	400.2	2 068.8	10.9	441.4	3 791.4
December	np	np	150.1	81.5	677.4	np	130.6	1 103.3
March	np	np	126.3	92.7	737.1	np	72.9	1 072.1
June	np	np	166.6	265.7	823.9	np	231.0	1 533.8
2014–15								
September	np	np	153.5	60.3	591.5	np	127.2	979.9
December	np	np	290.2	92.0	605.4	np	123.1	1 153.1
March	np	4.2	154.4	177.1	439.3	np	np	960.6
June	11.1	np	153.5	70.7	432.7	np	np	697.8
2015–16			00.4	44.0	407.5		07.0	500.0
September	np	np	90.4	41.0	407.5	np	37.2	582.9
			SEASO	NALLY AD	JUSTED			
2012-13	157.8	np	655.4	382.3	3 293.5	np	277.0	4 785.4
2013–14	144.5	np	624.7	535.2	3 009.9	np	509.9	4 839.3
2014-15	104.5	np	739.4	384.4	2 068.1	np	441.4	3 784.9
2013-14						•		
December	np	np	116.3	81.4	638.3	np	130.6	1 021.6
March	np	np	161.6	79.9	789.9	np	72.9	1 116.9
June	np	np	174.1	264.6	807.5	np	231.0	1 541.1
2014–15								
September	np	np	162.1	75.0	604.7	np	127.2	1 017.4
December	24.7	np	220.1	92.1	568.7	np	123.1	1 062.9
March	20.5	np	197.6	146.4	469.4	np	163.6	998.1
June <b>2015–16</b>	10.1	np	159.5	70.9	425.3	np	27.6	706.6
September	5.4	np	97.2	52.0	411.0	np	37.0	604.4
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	TREND	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •
2012 12	4.40.0		F00 7		2.040.0		070.0	4 000 0
2012-13	148.8	np	522.7	392.9	3 246.0	np	276.0	4 608.6
2013–14	158.2	np	613.7	335.9	2 828.1	np	392.9	4 342.6
2014–15	100.5	np	735.3	387.1	2 072.2	np	452.4	3 802.6
2013–14			140.7	07 F	706.0		07.0	1 000 0
December	np	np	148.7	87.5	726.8	np	97.2	1 099.2
March June	np	np	149.5 164.9	83.2 75.9	694.6 662.2	np	108.9 112.8	1 072.6 1 064.1
2014–15	np	np	104.9	15.9	002.2	np	112.8	1 004.1
September	np	np	187.5	87.5	609.4	np	131.1	1 069.0
December	30.5	np	200.9	104.5	540.8	np	138.9	1 033.8
March	19.8	np	190.2	106.3	487.5	np	111.2	928.8
June	10.9	np	156.7	88.9	434.5	np	71.2	771.1
2015–16	F 7		440.0	04.0	404.0		07.0	222.2
September	5.7	np	118.3	61.2	401.3	np	37.6	608.8

np not available for publication but included in totals where applicable, unless otherwise indicated (a) Also contains some additional areas. See paragraphs 5 and 6 of the Explanatory Notes.

#### **EXPLANATORY NOTES**

INTRODUCTION

SCOPE AND COVERAGE

- **1** The private sector exploration statistics appearing in this publication have been collected and compiled from the Mineral Exploration and Petroleum Exploration quarterly censuses conducted by the Australian Bureau of Statistics. This publication contains actual and expected exploration expenditure.
- 2 The Mineral Exploration and Petroleum Exploration censuses cover private enterprises known to be engaged in exploration in Australia, and in Australian waters including the Joint Petroleum Development Area (JPDA), regardless of the main activity of the explorer.
- **3** The Joint Petroleum Development Area (JPDA) is an area in the Timor Sea, about 500 km north west of Darwin. The JPDA consists of the area previously referred to as Area A of the Zone of Cooperation (ZOC). A treaty was signed with Indonesia in 1989 to enable exploration for and development of petroleum resources in this area. Following East Timor's separation from Indonesia, arrangements continued on a transitional basis between Australia and the United Nations Transitional Administration in East Timor (UNTAET) on behalf of East Timor. On 20 May 2002, the newly independent East Timor and Australia accepted arrangements as proposed in the new Timor Sea Treaty (based on an 'Exchange of Notes' between the two countries). A new Treaty, which entered into force on the 2 April 2003, provides the necessary framework arrangements for companies to exploit resources in the JPDA.
- 4 The areas formerly known as Areas B and C of the Zone of Cooperation no longer exist under this arrangement. Since 20 May 2002, ZOCB is simply a part of Australia's waters, and ZOCC a part of East Timor's.
- **5** Exploration in the JPDA is included in estimates for the Northern Territory. Further, as a reflection of the joint Australia/East Timor administration of exploration and production activity in the JPDA, 50% of exploration expenditure in the JPDA is excluded from the estimates. The feature article 'Statistical Treatment of Economic Activity in the Timor Sea' published in the September Quarter 2003 issue of Australian National Accounts: National Income, Expenditure and Product (cat. no. 5206.0) provides further details.
- **6** The tenements in the Ashmore and Cartier Islands are administered by the Northern
- Territory Department of Mines and Energy. Therefore all petroleum exploration expenditure in this area has been included with the Northern Territory data.
- 7 Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular or non-seasonal influences which may be present in any particular series.
- 8 These irregular influences that are volatile or unsystematic can make it difficult to interpret the movement of the series even after adjustment for seasonal variation. This means that quarter-to-quarter movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.
- **9** In this publication, the seasonally adjusted estimates are produced by the concurrent seasonal adjustment method which takes account of the latest available original estimates. This method improves the estimation of seasonal factors, and therefore, the seasonally adjusted and trend estimates for the current and previous quarters. As a result of this improvement, revisions to the seasonally adjusted and trend estimates will be observed for recent periods. A more detailed review is conducted on an annual basis.
- **10** The revision properties of the seasonally adjusted and trend estimates can be improved by the use of autoregressive integrated moving average (ARIMA) modelling. ARIMA modelling relies on the characteristics of the series being analysed to project future period data. The projected values are temporary, intermediate values, that are

SEASONAL ADJUSTMENT

#### **EXPLANATORY NOTES** continued

SEASONAL ADJUSTMENT continued

TREND ESTIMATES

only used internally to improve the estimation of the seasonal factors. The projected data do not affect the original estimates and are discarded at the end of the seasonal adjustment process. The Mineral Exploration collection uses ARIMA modelling where appropriate for individual time series. The ARIMA model is assessed as part of the annual review. For more information on the details of ARIMA modelling see the feature article: *Use of ARIMA modelling to reduce revisions* in the October 2004 issue of *Australian Economic Indicators* (cat. no. 1350.0).

- **11** In using the seasonally adjusted series for petroleum exploration offshore drilling and petroleum exploration in Western Australia, care should be exercised because of the difficulties associated with reliably estimating the seasonal pattern.
- **12** The smoothing of seasonally adjusted series to create trend estimates reduces the impact of the irregular component of the seasonally adjusted series.
- 13 The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average is symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit particular characteristics of the individual series. While the asymmetric weights enable trend estimates for recent quarters to be produced, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors.
- **14** Information Paper: A Guide to Interpreting Time Series, Monitoring Trends, an Overview (cat. no. 1349.0), can be obtained by contacting Time Series Analysis Canberra on (02) 6252 6345 or e-mail < time.series.analysis@abs.gov.au>.

EXPECTED EXPLORATION EXPENDITURE

- **15** Expected expenditure is collected in June and December quarter each year. Businesses are asked to report their expected expenditure for the next six months.
- Exploration Expenditure series changed. Prior to June 2000, the expected estimates released were simple aggregates of data compiled through the quarterly Mineral Exploration collection. However, these aggregates underestimated actual expenditure to a fairly consistent degree. The consistency with which the published data underestimated actual expenditure suggested that adjustments to improve the accuracy and usefulness of the estimates of expected expenditure would be possible.
- **17** In the period since June 2000, such adjustments have been made to reported expected exploration data resulting in estimates which better predict actual expenditure for the same period. For more information regarding the adjustments made to the Expected Mineral Exploration Expenditure series, see the feature article in the June quarter 2000 and the appendix in the December quarter 2002 issue of this publication. Since the June quarter 2003 issue, both unadjusted and adjusted expectations data have been presented in this publication.

ACKNOWLEDGMENT

**18** ABS publications draw extensively on information provided freely by individuals, businesses, government and other organisations. Their continued cooperation is appreciated: without it a wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

- **19** Users may also wish to refer to the following publications which are available from the ABS web site:
  - Private New Capital Expenditure and Expected Expenditure, Australia (cat. no. 5625.0)

## **EXPLANATORY NOTES** continued

RELATED PUBLICATIONS continued

- Australian Mining Industry (cat. no. 8414.0)
- Mining Operations, Australia (cat. no. 8415.0)

ABS DATA AVAILABLE ELECTRONICALLY

- **20** Current publications and other products released by the ABS are available from the Statistics View. The ABS also issues a daily *Release Advice* on the web site which details products to be released in the week ahead.
- **21** Details of wells and metres drilled in petroleum exploration are available from Geoscience Australia's *Oil and Gas Resources of Australia* available at www.ga.gov.au.

EFFECTS OF ROUNDING

**22** Where figures have been rounded discrepancies may occur between the sums of the component items and their totals.

Development

Phase usually following exploration where a prospective discovery (e.g. proven oil or gas field or concentrate of ore) is brought into production or for extending the life of a current mine or well. Activities may include preparing the ground by the removal of overburden, constructing shafts, drives and winzes; or by drilling and completing wells. All activities are for the purposes of commencing extraction/mining or extending production.

Exploration

Activity involves searching for concentrations of naturally occurring solid, liquid or gaseous materials and includes new field wildcat and stratigraphical and extension/appraisal wells and mineral appraisals intended to delineate or greatly extend the limits of known deposits by geological, geophysical, geochemical, drilling or other methods. This includes drilling of boreholes, construction of shafts and adits primarily for exploration purposes but excludes activity of a developmental or production nature. Exploration for water is excluded.

Exploration expenditure

Covers all expenditure (capitalised and non-capitalised) during the exploratory or evaluation stages in Australia, Australian waters, and the JPDA. Costs include cost of exploration, determination of recoverable reserves, engineering and economic feasibility studies, procurement of finance, gaining access to reserves, construction of pilot plants and all technical and administrative overheads directly associated with these functions. Examples are costs of satellite imagery, airborne and seismic surveys, use of geophysical and other instruments, geochemical surveys and map preparation; licence fees, land access and legal costs; geologist inspections, chemical analysis and payments to employees and contractors. Cash bids for offshore petroleum exploration permits are also included.

Exploration licence/permit

Is designed to cover the exploration phase of a project and confers exclusive rights to the exploration for and recovery of samples from the area designated. These rights are granted by relevant Commonwealth, State or Territory Governments.

Minerals

Are a naturally occurring inorganic element or compound having an orderly internal structure and characteristic chemical composition, crystal form, and physical properties. These, for example, comprise of metallic minerals, such as copper, silver, lead-zinc, nickel, cobalt, gold, iron ore, mineral sands, uranium and non-metallic minerals such as coal, diamonds and other precious and semi-precious stones and construction materials (e.g. gravel and sand).

Mining licence/lease

Covers the commercial mining phase of a project for the licenced area. This licence authorises both full recovery and further exploration to occur.

Offshore

Commences from the low water mark to three nautical miles out (referred to as coastal waters) under State and Northern Territory legislation and extends to those areas beyond coastal waters governed by the Commonwealth under the *Petroleum* (Submerged Lands) Act 1967.

Onshore

Includes all Australian territorial lands to the low water mark.

Petroleum

Is a naturally occurring hydrocarbon or mixture of hydrocarbons. As oil or gas in solution (e.g. Liquid Petroleum Gas), it is widespread in Australian sedimentary rocks.

Retention licence

Is an intermediate form of tenure between the exploration licence and mining licence allowing the holder of the exploration licence to retain title to the area for a limited time. It is designed to ensure the retention of rights pending the transition of a project from the exploration phase to the commercial mining phase.

Selected base metals

Are made up of the following minerals: copper, silver, lead-zinc, nickel and cobalt.

## **GLOSSARY** continued

### Type of deposit

#### Classification used:

Existing deposits – Exploration that is delineating or proving up an existing deposit, including extensions and infill, which has been classified as an Inferred Mineral Resource or higher.

New deposits – Exploration on previously unknown mineralisations or known mineralisations yet to be classified as an Inferred Mineral Resource or higher. They include:

- Exploration resulting in finding mineralisation that was previously unknown.
- Exploration on previously known mineralisation that has not been subjected to modern exploration.
- Exploration within an existing mining tenement for the purpose of finding new sources of mineralisation that have not already been classified as at least an Inferred Mineral Resource.

## Type of expenditure

#### Classification used:

Drilling expenditure – includes wages and salaries paid to employees; purchase, rental, hiring as well as operation and maintenance of drilling equipment together with activities associated with accessing the areas where drilling is to occur (e.g. road creation, vessel/transport hiring, site preparation and restoration). Also includes expenditure on drilling done by contractors.

Other expenditure – includes all other exploration costs, other than those associated with drilling expenditure. This expenditure includes purchase of capital and non-capital items, rental or hiring fees, service fees relating to surveying and analysis, administrative and legal fees associated with obtaining licences/permits, land access, map preparation, feasibility studies, environmental impacts studies and restoration costs.

#### Type of lease

#### Classifications used:

Production lease – is an area on which development to extract coal, minerals, liquids or gaseous materials is underway or where extraction/mining of these substances is already occurring. See also mining licence/lease.

*All other areas* – are those areas outside the Production lease. These include areas under exploration licence/permit or retention licence, as well as non-licenced areas being assessed for exploration, e.g. through airborne surveys.

## FOR MORE INFORMATION .

INTERNET

**www.abs.gov.au** the ABS website is the best place for data from our publications and information about the ABS.

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Our consultants can help you access the full range of information published by the ABS that is available free of charge from our website. Information tailored to your needs can also be requested as a 'user pays' service. Specialists are on hand to help you with analytical or methodological advice.

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