



ASX ANNOUNCEMENT

29 April 2010

QUARTERLY ACTIVITIES REPORT FOR QUARTER ENDED 31 MARCH 2010

HIGHLIGHTS

- Independent Scoping Study confirms potential for a robust mining project at Kempfield;
- Kempfield resources increased by 88% to 21.2m oz of contained silver; and
- Very high grade silver assays obtained from extension drilling at Kempfield.

Kempfield Scoping Study

Argent's announcement on 20 April 2010 stated that the Independent Scoping Study into a silver, gold, lead and zinc project at Kempfield had indicated the potential for a robust mining project.

Key outcomes include:

- Agitated Leach plus Flotation of leached tails to produce silver, lead, zinc and gold;
- 10.5 year life of mine (LOM) at 600,000 tpa;
- Payable production of 12 million ounces of Silver, 42,000 tonnes of lead/zinc and 15,000 ounces of gold; and
- LOM operating cost, net of other metal credits, of \$10.27 (US\$9.24) per ounce of silver compared to the 19 April 2010 price of \$19.19 (US\$17.60) per ounce of silver.

In addition, the Kempfield Volcanogenic Massive Sulphide (VMS) mineralised system is only partially drilled and has the potential to add more mineable resources. In light of the positive outcome of the Scoping Study, see ASX announcement released on the 20 April 2010 for details, the Board of Argent has decided to undertake a Definitive Feasibility Study (DFS) with the objective of taking a decision to mine by March 2011 and commencing production of silver in the first half of 2012.

Kempfield remains highly prospective. All zones are open at depth and there are extensive gaps along strike that require drilling. Recent IP and soil surveys have identified some excellent drill targets along strike and an extensive drill programme is planned to commence later this quarter.



Regional Resources

The region within 50kms of Kempfield has historically seen extensive precious and base metals production and there are a number of deposits which could potentially be treated through a plant located at Kempfield. Several opportunities have been identified and will be the subject of further review.

Barite concentrates could also be produced with the addition of further float cells. The in-pit mining inventory at Kempfield is estimated to contain over 1 million tonnes of barite, which sells for US\$100 (December 2008) per tonne, landed in the Gulf of Mexico. In the absence of a firm market for the product, the Scoping Study does not include any Barite production. If a market for Kempfield Barite was developed in the future it could be produced as a low cost by-product and provide a valuable income stream for the project.

The project provides Argent with exposure to the silver price which has tended to move in sync with gold. A 30% increase in gold and silver prices, i.e. to US\$1430 per ounce gold and US\$21.84 per ounce silver, would add \$70 million to the project's net cash flows. In addition, the proposed pits contain large quantities of low grade material, currently classified as waste at current prices, some of which would be economic to process at higher silver prices.

Definitive Feasibility Study (DFS)

The DFS which will commence immediately is budgeted to cost approximately \$1.1 million and will be done to a standard designed to attract project financing. It will include:

- 3,500m of infill, metallurgical and geotechnical drilling;
- Metallurgical Bottle Roll and Flotation test work;
- Preparation of an Environmental Impact Study. Fauna, flora and heritage studies have already been completed;
- Process plant engineering and site layout including tailings dam design; and
- Infrastructure requirements including water and power.

Concurrently with the preparation of the DFS the company will seek Development Approval and the grant of a Mining Lease. Discussions have begun to establish a Mining Agreement with the Gundungurra Tribal Council, the representative of the Native Title Claimant to the area.

Completion of the DFS will culminate in a project financing decision for Kempfield. Argent's Executive Chairman, Mr Kerry McHugh, said that "the Scoping Study results are very encouraging and, if they are confirmed by the Definitive Feasibility Study and lead to the establishment of a viable project, will provide a strong stepping stone for Argent's growth profile and underpin the future of the company for years ahead.



“The cash generated would fund the company’s exploration efforts, including at the highly prospective Kempfield tenement and assist in the funding of new opportunities. As noted above the Board continues to review and assess other potential near term production assets accessible to Kempfield and in other key regional mining areas in Australia.”

Details of the Scoping Study results and of the work to be undertaken in the DFS are set out in the ASX announcement titled, Kempfield Scoping Study Confirms Robust Mining Potential, released on 20 April 2010.

Revised Kempfield Resource Estimate

Argent Minerals Limited announced on 22 March 2010 that a revised estimate of the silver / lead / zinc / barite resources at its Kempfield property had been undertaken by consulting geologists Hellman and Schofield Pty Ltd, the revised estimates are set out in Table 1. Approximately 84% of the oxide and transitional resource and 54% of the primary resource have reported to the pits proposed in the Scoping Study. Also reported is the resource estimate, which was included in the Company’s prospectus, issued in conjunction with its listing on the ASX on 4 April 2008.

The revised resource contains 21.2 million ounces of silver, an 88% increase on the prospectus resource, and equivalent to 326,000 ozs of gold at a silver/gold ratio of 65 to 1. The resource also contains:

- 30,000 ozs of gold;
- 110,000 tonnes of zinc as sulphide; and
- 55,000 tonnes of lead as sulphide.

Table 1 Kempfield Resources

	Million Tonnes	Silver		Lead %	Zinc %	Gold g/t	Barite %
		g/t	mill ozs				
April 2008 Prospectus Resource							
All zones (at 60g/t Ag only cut-off)	3.7	95	11.3	0.5	0.7	-	26
March 2010 Resource							
Oxide and Transitional (at 40g/t Ag only cut-off)	3.2	79	8.1	-	-	0.09	23
Sulphide (at 80g/t Ag equivalent cut-off)*	6.7	62	13.2	0.8	1.7	0.11	17

Total Silver 9.9m tonnes at 67g/t for 21.2 million ounces of Silver.



*At 40g/t silver only cut-off for the oxide and transitional material and at 80g/t silver equivalent for the sulphide material (where 20g/t silver is equivalent to 1% lead or 1% zinc or any proportional combination thereof).

Drilling programmes undertaken since the company listed in April 2008 have been very successful, with approximately 8,000m of mainly RC drilling in 120 holes being completed over the period, resulting in an additional 4.8 million ozs of silver at an approximate cost of 15 cents per ounce.

The changes in the cut-off grade from 60g/t silver to 40g/t silver for the oxide and transitional material and from 60g/t silver only to 80g/t silver equivalent for the sulphide, reflect the increase in the silver price between 2000 - 2001 when the resource estimates quoted in the prospectus were made (A\$9 per ounce) and when the revised resource estimates were calculated (A\$18 per ounce) and the value of the lead and zinc in the sulphide mineralization. The revised cut off grades have resulted in an additional 5.1 million ozs of silver.

JORC Code Classification

Approximately 75% of the tonnes in the overall resource are classified as Measured or Indicated under the JORC Code. 80% of the contained silver and 68% of the contained lead and zinc report to the Measured or Indicated categories. Details are set out in Table 2 below.

Table 2– Kempfield Resources - JORC Code Classification

	Million Tonnes	Silver		Gold g/t	Lead %	Zinc %	Ag Eq g/t
		g/t	Mill ozs				
Oxide and Transitional (at 40g/t Ag only cut-off)							
Measured	1.4	87.0	4.0	0.08	-	-	-
Indicated	1.3	74.6	3.2	0.09	-	-	-
Inferred	0.4	66.3	0.9	0.08	-	-	-
Total	3.2	79.2	8.1	0.09	-	-	-
Sulphides (at 80g/t Ag Equivalent cut-off)							
Measured	1.2	80.5	3.0	0.09	0.9	1.3	124.5
Indicated	3.5	61.4	6.8	0.11	0.8	1.6	109.4
Inferred	2.0	51.3	3.4	0.12	0.8	1.9	105.3
Total	6.7	61.6	13.2	0.11	0.8	1.7	111.3



The oxide and transitional resources are relatively high grade, generally lie within 30m of the surface and are amenable to leaching to recover silver and gold. Approximately 88% is classified as Measured or Indicated. The much larger sulphide resources lying below the oxide and transitional resources have lower average silver grades (61.6g/t) but contain 2.5% combined lead/zinc.

The sulphide mineralization is amenable to leaching to recover some of the contained silver and to flotation of the leach tail to produce a zinc concentrate and a silver rich lead concentrate. Approximately 72% of the sulphide resource is classified as Measured or Indicated.

Very High grade silver Intersection

On 8 February 2010, Argent announced that drilling at the McCarron Zone had intersected very high grade silver including;

- 4m at 1,285g/t silver (41 ozs of silver per tonne or the equivalent of 18.2g/t gold) in hole AKRC77.

Table 3 below shows the most significant intersections in holes AKRC77 and 79. Table 4 provides further details of the 4 holes drilled in the most recent programme together, with details of previously reported holes AKRC62 and 74.

Table 3

Hole No	From (m)	Interval (m)	Silver (g/t)	Gold (g/t)	Lead (%)	Zinc (%)	CBM* %
AKRC77	26	40	222.0	0.31	1.6	2.2	3.8
Including	36	4	1285.0	0.34	0.7	0.3	1.0
And including	42	8	78.6	0.28	2.5	6.1	8.6
AKRC79	38	32	79.7	0.21	1.3	1.1	2.4
Including	42	18	115.0	0.24	1.4	1.1	2.5

*Combined base metals



Table 4 Further Results

Hole No	Easting	Northing	From (m)	Interval (m)	Silver g/t	Gold g/t	Lead %	Zinc %	CBM %
McCarron North									
AKRC62	708280	6258090	Surface	44	71.6	0.20	0.03	0.46	0.49
		Including	4	6	212.7	0.37	0.02	0.74	0.76
		Including	4	2	320.0	0.36	0.01	0.73	0.74
		Including	36	6	133.3	0.59	0.03	0.46	0.49
		Including	40	2	134.0	1.53	0.02	0.74	0.76
		And	68	4	4.4	1.21	0.06	0.17	0.23
AKRC63 Deepened	708172	6257966	84	2	28.1	0.20	1.06	1.13	2.19
AKRC74	708375	6258280	12	44	159.7	0.41	1.68	1.98	3.66
		including	20	6	365.0	0.20	0.66	0.27	0.97
		Including	40	16	190.7	0.53	3.14	4.89	8.03
		Including	50	6	356.0	1.07	4.66	6.94	11.60
		And	90	18	23.8	0.28	0.71	2.15	2.86
		Including	90	4	31.0	0.29	0.92	2.45	3.37
AKRC77	708270	6258122	26	96	99.9	0.27	0.98	1.53	2.51
		Including	26	40	222.0	0.31	1.62	2.19	3.81
		Including	26	16	440.9	0.37	0.87	0.55	1.42
		Including	36	4	1285.0	0.34	0.65	0.35	1.00
		Including	42	8	78.6	0.28	2.55	6.06	8.61
		Including	46	2	78.9	0.35	2.24	7.96	10.20
		Including	58	8	80.2	0.29	2.17	3.99	6.16
South Conglomerate									
AKRC78	708344	6257767	20	4	43.1	0.25	0.69	0.18	0.87
		and	36	6	36.9	0.63	0.54	0.21	0.75
McCarron North									
AKRC79	708281	6258140	38	32	79.7	0.21	1.27	1.08	2.35
			42	18	115.0	0.24	1.46	1.08	2.54
			86	2	20.2	1.00	0.43	0.62	1.05
			98	2	29.3	0.70	0.54	1.31	1.85
			116	2	7.3	0.92	0.11	2.15	2.26

Planned follow up drilling will include;

1. Holes to test the down dip extensions of the mineralization.
2. Holes will be drilled along the 255m of apparent strike to the north to where hole AKRC35 intersected 6m averaging 0.22g/t gold, 163.7g/t silver and 2.4% CBM. However there are 3 previously drilled holes along this strike, see Figure 1 below, which only intersected narrow bands of mineralisation illustrating the lensy type nature of this type of mineralization. Planning of the follow up holes will take this into account.

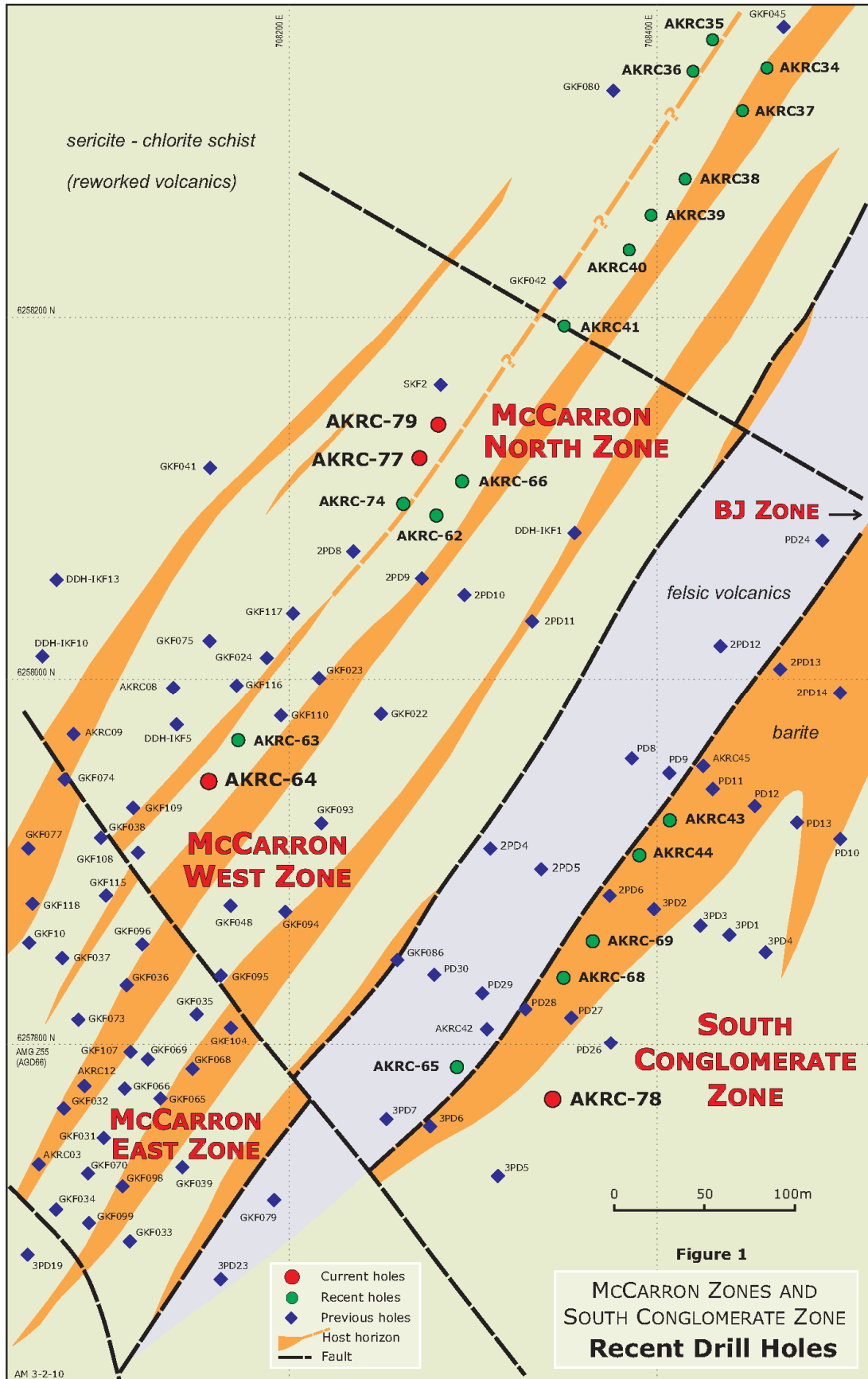


Figure 1



West Wyalong and Sunny Corner

No work was undertaken on these tenements during the quarter as activities were focussed on Kempfield. However, a small drilling programme is scheduled to commence in May 2010 at West Wyalong to follow up the 2m at 21.5 g/t gold intersection at 60m vertical in hole WGC001. In addition, a small 2 hole programme is being planned to test the historic Nevada copper mine at Sunny Corner.

Cash Reserves

As 31st March 2010 Argent had cash totalling \$1.718 million.

For more information:

www.argentminerals.com.au

Kerry McHugh
Executive Chairman
Argent Minerals Limited
Ph: 0404 465 154

Competent Person Statements

The information in this report that relates to mineral resources on the Kempfield Tenements is based on information compiled by Mr. van der Heyden who is a Member of the Australian Institute of Mining and Metallurgy and a full time employee of Hellman & Schofield Pty Ltd. The data used to derive the mineral resource estimate was supplied by Argent Minerals Limited and compiled, in the case of data produced prior to January 2007 by Mr Chris Torrey who is a Member of the Australian Institute of Geoscientists and a full time employee of CTEX Pty Ltd an independent geological consultancy and, in the case of data produced since January 2007, by Dr Vladimir David.

Mr van der Heyden, Mr Torrey and Dr David have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as "Competent Persons" as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr van der Heyden, Mr Torrey and Dr David consent to the inclusion in this Report of the information compiled by them in the form and context in which they appear.

The information in this Report that relates to Exploration is based on information compiled by David Timms and Dr Vladimir David who are members of the Australian Institute of Geoscientists, and Technical Consultants to Argent, and who have sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Timms and Dr David consent to the inclusion in the report of the matters based on the information in the form and context in which it appears.

Appendix 5B

Mining exploration entity quarterly report

Introduced 1/7/96. Origin: Appendix 8. Amended 1/7/97, 1/7/98, 30/9/2001.

Name of entity

ARGENT MINERALS LIMITED

ABN

89 124 780 276

Quarter ended ("current quarter")

31 March 2010

Consolidated statement of cash flows

	Current quarter \$A '000	Year to date \$A '000
Cash flows related to operating activities		
1.1 Receipts from product sales and related debtors	-	-
1.2 Payments for		
(a) exploration and evaluation	(317)	(879)
(b) development	-	-
(c) production	-	-
(d) administration	(125)	(298)
1.3 Dividends received	-	-
1.4 Interest and other items of a similar nature received	19	54
1.5 Interest and other costs of finance paid		
1.6 Income taxes paid		
1.7 Other (provide details if material) – GST	19	(84)
Net Operating Cash Flows	(404)	(1,207)
Cash flows related to investing activities		
1.8 Payment for purchases of:		
(a)prospects		
(b)equity investments		
(c)other fixed assets	-	(6)
1.9 Proceeds from sale of:		
(a)prospects		
(b)equity investments		
(c)other fixed assets		
Loans to other entities		
Laur		
1.10		
1.11 Loans repaid by other entities		
1.12 Other (provide details if material)		
Net investing cash flows	-	-
1.13 Total operating and investing cash flows (carried forward)	(404)	(1,213)

+ See chapter 19 for defined terms.

Appendix 5B
Mining exploration entity quarterly report

1.13	Total operating and investing cash flows (brought forward)	(404)	(1,213)
	Cash flows related to financing activities		
1.14	Proceeds from issues of shares, options, etc.	-	629
1.15	Proceeds from sale of forfeited shares		
1.16	Proceeds from borrowings		
1.17	Repayment of borrowings		
1.18	Dividends paid		
1.19	Other (provide details if material)	1	(39)
	Net financing cash flows	1	590
	Net increase (decrease) in cash held	(403)	(623)
1.20	Cash at beginning of quarter/year to date	2,121	2,341
1.21	Exchange rate adjustments to item 1.20	-	-
1.22	Cash at end of quarter	1,718	1,718

Payments to directors of the entity and associates of the directors

Payments to related entities of the entity and associates of the related entities

		Current quarter \$'000
1.23	Aggregate amount of payments to the parties included in item 1.2	111
1.24	Aggregate amount of loans to the parties included in item 1.10	-

1.25 Explanation necessary for an understanding of the transactions

	\$'000
Directors fees and remuneration	90
Accounting, bookkeeping and secretarial services	21

Non-cash financing and investing activities

2.1 Details of financing and investing transactions which have had a material effect on consolidated assets and liabilities but did not involve cash flows

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2.2 Details of outlays made by other entities to establish or increase their share in projects in which the reporting entity has an interest

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+ See chapter 19 for defined terms.

Financing facilities available

Add notes as necessary for an understanding of the position.

	Amount available \$A'000	Amount used \$A'000
3.1 Loan facilities	NIL	
3.2 Credit standby arrangements	NIL	

Estimated cash outflows for next quarter

	\$A'000
4.1 Exploration and evaluation	450
4.2 Development	-
Total	450

Reconciliation of cash

Reconciliation of cash at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts is as follows.

	Current quarter \$A'000	Previous quarter \$A'000
5.1 Cash on hand and at bank	13	34
5.2 Deposits at call	1,669	2,051
5.3 Bank overdraft	-	-
5.4 Other (Bank Guarantee deposit)	36	36
Total: cash at end of quarter (item 1.22)	1,718	2,121

Changes in interests in mining tenements

	Tenement reference	Nature of interest (note (2))	Interest at beginning of quarter	Interest at end of quarter
6.1	Interests in mining tenements relinquished, reduced or lapsed	Nil		
6.2	Interests in mining tenements acquired or increased	Nil		

+ See chapter 19 for defined terms.

Appendix 5B
Mining exploration entity quarterly report

Issued and quoted securities at end of current quarter

Description includes rate of interest and any redemption or conversion rights together with prices and dates.

	Total number	Number quoted	Issue price per security (see note 3) (cents)	Amount paid up per security (see note 3) (cents)
7.1 Preference securities <i>(description)</i>	-			
7.2 Changes during quarter (a) Increases through issues (b) Decreases through returns of capital, buy-backs, redemptions	-			
7.3 +Ordinary securities	48,231,251	48,231,251		
7.4 Changes during quarter (a) Increases through issues (b) Decreases through returns of capital, buy-backs	-	-	-	-
7.5 +Convertible debt securities <i>(description)</i>	-			
7.6 Changes during quarter (a) Increases through issues (b) Decreases through securities matured, converted				
7.7 Options <i>(description and conversion factor)</i>	48,230,751	48,230,751	<i>Exercise price</i> \$0.20c	<i>Expiry date</i> 30 June 2011
7.8 Issued during quarter				
7.9 Exercised during quarter				
7.10 Expired during quarter	-			
7.11 Debentures <i>(totals only)</i>	-			
7.12 Unsecured notes <i>(totals only)</i>	-			

+ See chapter 19 for defined terms.

Compliance statement

- 1 This statement has been prepared under accounting policies which comply with accounting standards as defined in the Corporations Act or other standards acceptable to ASX (see note 4).
- 2 This statement does give a true and fair view of the matters disclosed.

Sign here: Marcus Michael Date: 29 April 2010
 Executive Director and Company Secretary

Print name: Marcus Michael

Notes

- 1 The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity wanting to disclose additional information is encouraged to do so, in a note or notes attached to this report.
- 2 The "Nature of interest" (items 6.1 and 6.2) includes options in respect of interests in mining tenements acquired, exercised or lapsed during the reporting period. If the entity is involved in a joint venture agreement and there are conditions precedent which will change its percentage interest in a mining tenement, it should disclose the change of percentage interest and conditions precedent in the list required for items 6.1 and 6.2.
- 3 **Issued and quoted securities** The issue price and amount paid up is not required in items 7.1 and 7.3 for fully paid securities.
- 4 The definitions in, and provisions of, *AASB 1022: Accounting for Extractive Industries* and *AASB 1026: Statement of Cash Flows* apply to this report.
- 5 **Accounting Standards** ASX will accept, for example, the use of International Accounting Standards for foreign entities. If the standards used do not address a topic, the Australian standard on that topic (if any) must be complied with.

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+ See chapter 19 for defined terms.