



ASX Announcement

9th August 2010

First Drill Hole at Mt Clement Intersects High Grade Gold and Massive Sulphide

About Artemis Resources

Artemis Resources is an ASX-listed mineral exploration company with a focus on gold:

Key Projects

Gold

Mt Clement (WA)
Yandal (WA)

Rare Metals

Yangibana (WA)
Buchanan's Creek (QLD)

Uranium

Mundong Well (WA)
TAG II/IV (West Africa)

Artemis' corporate strategy is to maximise shareholder returns through a combination of exploration success and quality project acquisition.

The company's focus on gold is viewed as an important growth strategy for the company.

Australian Securities Exchange

Code: ARV
Options: ARVOB

Artemis Contact

David W. Price
Executive General Manager
Tel: +61 2 8221 2255

www.artemisresources.com.au

Media Contact

David Brook
Professional Public Relations
Tel: +61 8 9388 0944
Mob: +61 (0) 415 096 804

- **6.0m @ 5.23g/t Au** from 14m down hole
- **6.0m @ 8.81g/t Au** from 106m down hole
- **Massive sulphide over 3m wide intersected**
- **Successful intercept proves that high grade gold mineralisation does continue strongly at depth**
- **Clear targets for finding more gold identified down dip**

Artemis Resources (**ASX: ARV**) announced today that its first drill hole has successfully intersected massive sulphide and high grade gold during the current reverse circulation drilling program at its Mt Clement Gold Project in Western Australia.

The best results from this drill hole include;

- **6.0m @ 5.23g/t Au** between 14m and 20m downhole depth.
- **6.0m @ 8.81g/t Au** between 106m and 112m downhole depth.

Drill hole number ARMCR001 was aimed at testing the first of 5 high grade zones and confirms that the Company's in-house mineralisation modelling is correct.



The intercept from 106m (averaging 6m @ 8.81g/t Au but includes 3.0m @ 13.68g/t Au) is the deepest intersection in the western part of Artemis' Mining Lease (M 08/192). This intersection proves that gold mineralisation is not restricted to near-surface secondary (weathering) enrichment of gold. The mineralisation was intersected on target as modelled and extends the gold mineralisation 37m deeper than the previous BHP intersection drilled in 1979 (hole number CD004 which intersected 8.5m @ 5.80g/t Au).

Drilling has confirmed a significant down-dip extension and provides a clear target for further exploration. The cross section below (Figure 1) illustrates the potential for increased ounces based on the high grade zone extending at depth. The successful results of Artemis' first drill hole (highlighted in yellow on Figure 1), has extended the known gold mineralisation to approximately 100m below surface. The Company considers the potential to extend mineralisation at depth to well beyond the top 100m is high based on the strength and persistence of the gold mineralisation.

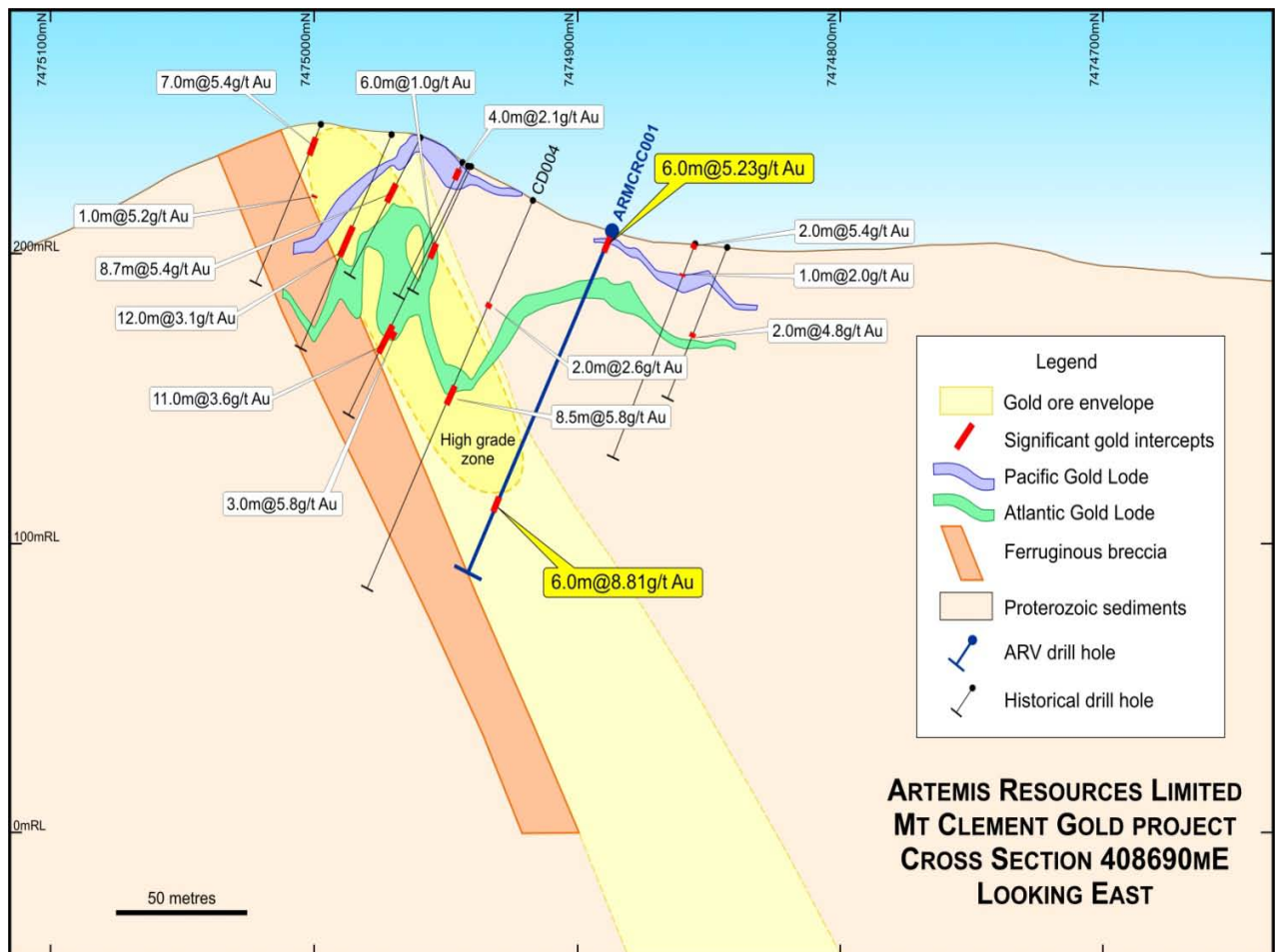


Figure 1 - A schematic cross section through the Mt Clement Gold Project. The first Artemis hole has successfully extended high grade mineralisation at depth with gold mineralisation remaining open in all directions.

The near-surface intercept averaging 6m @ 5.23g/t Au successfully confirms and in-fills (and significantly strengthens) mineralisation associated with the Pacific Lode, forming part of the stratabound gold mineralisation model.

As ARMCRC001 progressed to depth, the underlying Atlantic Lode was also intersected with 3m grading 0.70g/t Au.

The first drill hole was designed to intersect the western-most high grade lode and successfully hit the zone as planned. Hole ARMCRC001 was drilled to design depths with brecciated, altered and mineralised ground being encountered for much of the length of the hole.



A photograph of the drill rig in operation drilling hole ARMCRC001 at Mt Clement in July 2010



A photograph of some chips of the massive sulphide intersected in drill hole ARMCR001 at Mt Clement

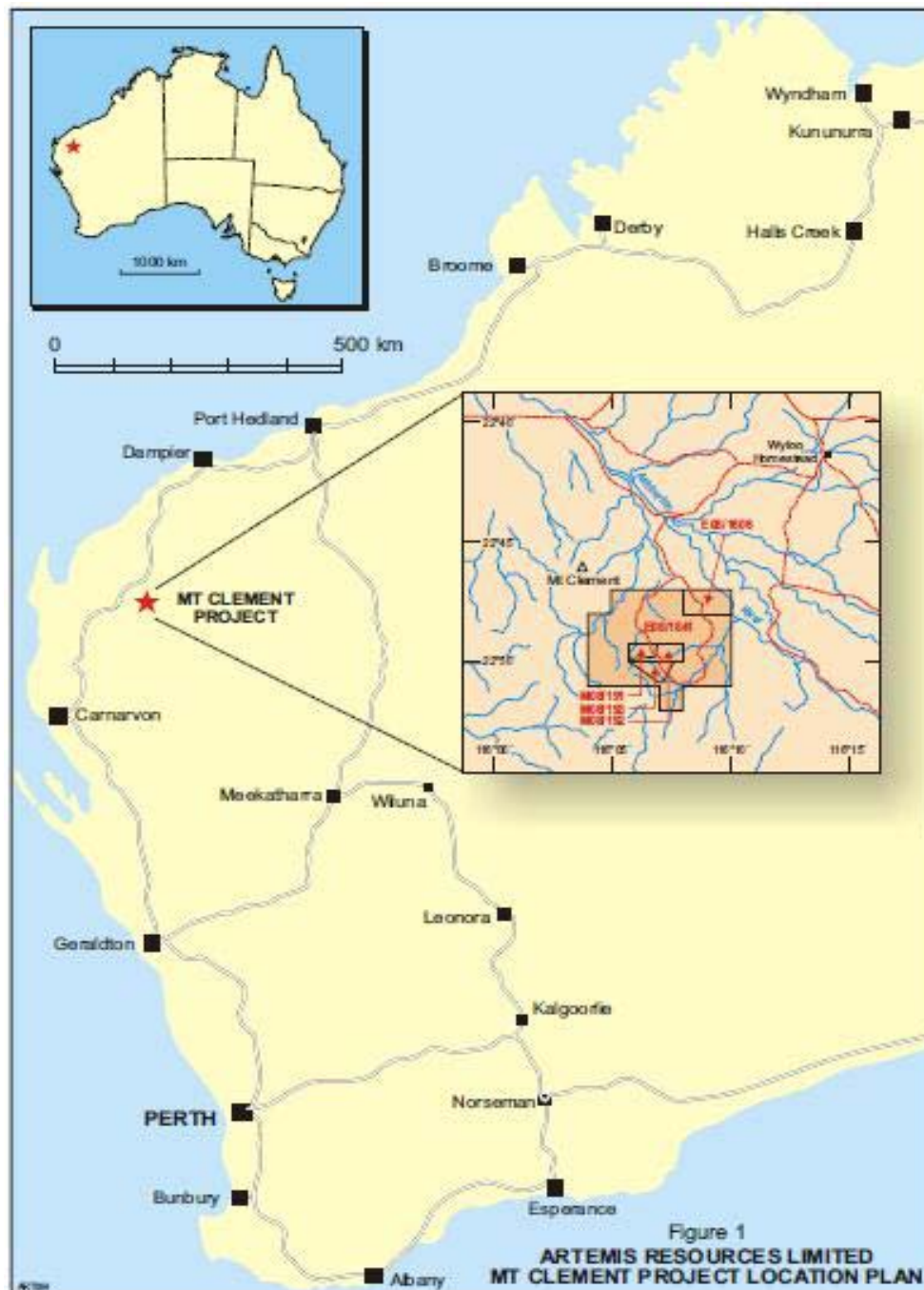
The massive sulphide intersected in ARMCR001 contains up to 80% sulphides – many of which remain to be accurately identified by polished thin section. From field observations, it is possible that silver-bearing and copper-bearing sulphides are present in the mix of sulphides and results of the copper and silver analyses are awaited.

Up to 12 drill holes are planned at Mt Clement during this drilling phase. Drilling is aimed at testing high grade gold mineralisation identified from a 3-dimensional reappraisal of historical drilling. Drilling continues to progress on schedule.

For further information, please contact:

David W. Price
Executive General Manager
Office: +61 (0)2 82212255
Email: info@artemisresources.com.au
Web Site: www.artemisresources.com.au

ADDITIONAL INFORMATION



Location Map of the Mt Clement Gold Project in Western Australia





ABOUT ARTEMIS RESOURCES

Artemis Resources (**ASX: ARV**) is a diversified resources exploration company with a focus on its prospective Mount Clement and Yandal gold projects in Western Australia. The Company also has exposure to rare earths through its Yangibana (Western Australia) and Buchanan's Creek (Queensland) projects and Uranium through its Mundong Well and TAG II/IV projects in Western Australia and West Africa. Its projects were targeted because of their quality, exploration potential and close proximity to existing deposits or producing mines.

The Mount Clement Gold project comprises three mining leases and two exploration licenses over 14.5km² in the Ashburton area of Western Australia, approximately 35km from the operating Paulsens Gold mine owned by ASX-Listed Northern Star Resources Limited.

Hole Number	From (m)	To (m)	Interval (m)	Gold (g/t)
ARMCRC001	14.00	15.00	1.00	5.76
ARMCRC001	15.00	16.00	1.00	5.25
ARMCRC001	16.00	17.00	1.00	4.77
ARMCRC001	17.00	18.00	1.00	7.13
ARMCRC001	18.00	19.00	1.00	5.14
ARMCRC001	19.00	20.00	1.00	3.30
ARMCRC001	106.00	107.00	1.00	3.71
ARMCRC001	107.00	108.00	1.00	16.10
ARMCRC001	108.00	109.00	1.00	13.05
ARMCRC001	109.00	110.00	1.00	11.90
ARMCRC001	110.00	111.00	1.00	4.77
ARMCRC001	111.00	112.00	1.00	3.34

Detail of best drilling results from hole ARMCRC001 at Mt Clement – August 2010.
Note that copper and silver results are still awaited from the laboratory.

Hole Number	North MGA94	East MGA94	RL (m)	Dip (deg°)	Azimuth (deg°)	Total Depth (m)
ARMCRC001	7474887	408680	207.55	-65	001	136

Drilling statistics for August 2010 RC drilling at Mt Clement

The information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr David W. Price, who is a Fellow of The Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Mr Price has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Price, who is an officer of the Company, consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

