

# Archer Exploration Limited - Quarterly Activities Report for December 2013

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Perth, Australia (ABN Newswire) - [Archer Exploration Ltd.](#) (ASX:AXE) Announce the Quarterly Activities Report for December 2013 with the following highlights.

- Samples of flotation concentrates for initial marketing assessment have been completed. A total of 6.6 kilograms of high grade graphite concentrate with an average grade of 97.5% TGC has been recovered. A further 1.4 kilograms of graphite concentrate is in final preparation.

- Grades of the re-cleaned flotation concentrates have been steadily increasing with latest tests in the high 98 - low 99 percent C.

- A series of tests using industry standard acid cleaning followed by ashing analysis produced concentrates grading to 99.7% C.

- Archer has committed to a two-year program of Research and Development into graphene and graphene-related products with the University of Adelaide.

- Product development research as part of ongoing collaboration between Archer and the University of Adelaide, School of Chemical Engineering (Prof Dusan Losic Nano Research Group) successfully produced a wide number of graphene and intercalated graphite products from raw Campoona graphite and from Campoona medium-grade (92% TGC) graphite concentrates. Key products produced were:

- graphene oxide sheets.
- graphene sheets.
- graphene based composites.
- intercalated graphite.

- The ability of Campoona graphite and Campoona graphite concentrates to deliver a wide spectrum of graphene and graphene-related products greatly enhances the probability of Archer being able to deliver two 15-20 year business streams:

- high grade fine natural flake graphite; and
- the manufacture of high tech, high-value graphene products.

- Graphene is a one-atom thick layer of carbon that has outstanding mechanical, electrical, optical, thermal and chemical properties. Many have dubbed graphene as The New Age material. Graphene's uses include as conductive formulations and inks, in composite materials, in energy storage materials, in catalysis, as transparent conductive layers, in carbon semi-conductors, in bio-related applications and for waste and water treatment.

- Substantial progress has been made on studies to support the Campoona Mining Lease Proposal planned to be submitted to government in Q3 calendar 2014. Studies completed include:

1. Project Stakeholder Engagement Plan.
2. Commenced Community Consultative Committee meetings.
3. Issued the first two periodic Community Newsletters.
4. Hydrogeological desktop baseline assessment.
5. Surface water study.
6. Indigenous and Non-Indigenous Desk-top Cultural Heritage Survey.

## LEIGH CREEK MAGNESITE

- A third party has sought the Warden's approval to peg and apply for registration of new mineral claims over the Mt Hutton portion of Archer's greater Leigh Creek magnesite deposits for the purpose of extracting dolomite. The initial Warden's Court hearing is set for 14th January 2014. Archer will vigorously defend its mineral rights.

- Leigh Creek Magnesite Pty Ltd a wholly owned subsidiary of [Archer Exploration Ltd.](#) applied for an additional exploration licence at Leigh Creek covering the Screechowl magnesite deposit.

## FINANCIAL

- Cash in bank on 31th December 2013 of \$7.225 million.

- \$537,000 was spent on exploration and project evaluation during the quarter.

To view the full report with images and diagrams, please visit:  
<http://media.abnnewswire.net/media/en/docs/ASX-AXE-777660.pdf>

## About Archer Exploration Limited:

[Archer Exploration Ltd.](#) (ASX:AXE) is a graphite, magnesite, copper, gold and manganese explorer focused on the discovery of world-class ore deposits.

The company has carefully acquired a portfolio of projects, covering an area in excess of 5300 km<sup>2</sup>, in the highly prospective Gawler Craton and Adelaide Fold Belt regions of South Australia. All projects are 100% owned by the Company.

Archer also has earned the right to 100% of minerals other than uranium on EL4693 Wildhorse Plain located near Cleve on Eyre Peninsula.

The Company's flagship Campoonna and Sugarloaf graphite deposits occur in the Cleve district where the Company has tenure of 933km<sup>2</sup> in the emerging graphite province.

[Archer Exploration Ltd.](#) has an experienced board and management team and has the ability to maximise the potential of the company's world-class projects.

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