

# Archer Exploration Ltd. Appointment of Dr David Lock as Manager Metallurgy To Drive Campoona Graphite Deposit Towards Production

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Perth, Australia (ABN Newswire) - The Board of [Archer Exploration Limited](#) (ASX:AXE) is pleased to announce the appointment of Dr David Lock effective today to head the Company's metallurgical testing, process flow sheet definition, pilot plant testing and operating plant design for the Campoona Graphite Deposit.

Dr Lock is a leading World expert in Geochemistry, Assaying, Mineral Processing, Mineralogy, Geo-metallurgy, Process improvements, Project Design and Execution, Product Development and Marketing in Industrial Minerals.

Dr Lock was educated in Adelaide at Flinders University of South Australia, School of Earth Sciences receiving a BSc (Hons) in Geology and Geophysics in 1975 and a PhD in Geology and Geochemistry in 1983.

Dr Lock was accorded a World-Leadership Standing in Industrial Minerals Science & Engineering and in Minerals Education by US Department of Justice (2001), for priority US immigration and US Defense-research employment. This special category (Alien of Extraordinary Ability) is available only to world-class artists, athletes, performers, business leaders, and scientists who wish to work in the US. This standing recognizes Dr Lock's level of professional achievement in the sciences, by formal peer review and independent evaluation.

Dr Lock has had a distinguished career and his professional experience includes:

## **SENIOR EXPLORATION GEOLOGIST, COMALCO Ltd. - Adelaide, South Australia (1979 - 1981)**

Led exploration projects for the Bauxite Division of Rio Tinto covering soda ash, lithium, limestone, fluorite, MVD's, bauxite and kaolin. Project manager, field supervision, assaying, geophysics, drilling, geochemistry and information /contract management.

## **PRINCIPAL EXPLORATION GEOLOGIST/RESEARCH, CRA, Ltd. - Canberra, Australia (1981-1986)**

Expertise on exploration methods in weathered terrains and deep covers - Yilgarn / Gawler Craton, Pilbara, porphyry copper/gold, uranium, iron ores. Management for conceptual targets, initiation, team-leadership, technical support, & completion, for national exploration programs in non-metallic, metallic and fuel mineral commodities. Largest mining and exploration company in Aust. Lead, zinc, copper (Broken Hill, Mt. Isa, McArthur R.), gold, diamonds, borax, lithium, soda ash, potash, phosphate, rare earths, mineral sands, uranium. Specialty in Industrial Minerals and sedimentary ore deposits, Hydrogeochemistry. Managed support assets and laboratory services. Team-member to extend reserves at Broken Hill South Mine; Greenfield discoveries. Supervision in mine-geology systems, reserves extension. Geo-metallurgy and mineral processing remediations and development trials for group companies. Patent co-inventor.

RESEARCH FELLOW, - Weathering processes in exploration, and mineral deposits genesis.

Aust. National University, Inst. Advanced Studies, Research Schools. (1986-1992)

Australian weathering processes and their relations to deep-cover bedrock terrains for exploration (regolith studies), on cratonic areas of South Australia - Eyre Peninsula, Stuart Shelf (Coober Pedy), Lake Eyre Basin, Yilgarn (Southern Cross). Formation of surface industrial mineral deposits in Quaternary landscape histories. Weathered sulphides & oxides (Cu-Au, Pb-Zn, U, Ni, REO's, Fe), gossan, leachcaps, alunite, roll-front

uranium, ferruginous laterites, silcretes. Utilized imagery, geochemistry and mineralogy, hydrogeochemistry, industry drilling and geophysical, assay, landscape processes. Landscape, volcanic, geo/hydrothermal processes for lithium, borax, soda ash, potash, bauxite and magnesite. Australia, US, & W. China.

### **PROFESSOR & DIRECTOR, University of Nevada, Reno (1993-2000)**

Director, Centre for Strategic Materials, Research & Policy Development, US Dept Defense 1993-1996

Director, National Centre for Excellence in Mineral Sciences, Industrial support & initiatives 1993-1996

Senior Research Professor/Head, Industrial Minerals Program Depts Geology & Engineering 1993-2000

Formulated programs and directed the work of faculty, graduate students, and company staff in a broad industrial research initiative, in mineral resources, economic geology, exploration, mine geology & mine management, metallurgy & mineral processing, mineral economics & trade. The University of Nevada was one of five national centres of excellence in the discipline.

Developed and led the only graduate teaching program in the US for Industrial Mineral Sciences & Engineering. Directed Centre initiatives, and managed proposal development, budgeting, and execution for a variety of projects contracted with the Centre by various commercial, national, and international entities, some with US defense interests.

### **SPECIALIST CONSULTANT (Dr. D. Lock) - Sparks, Nevada 2000-June 2012**

Multidisciplinary Fields of Mineral Technology. Management in exploration, mining, metallurgy and trade.

Provided a broad range of consultative services in the areas of: Management (project, production, staff & supervision, remediations, development) Resource Geology & Minerals Exploration Mine-geology & Mine Management Mineral Processing, Geo-Metallurgy, Plant & Production Management Product Development/ Mineral Markets/ Commerce Evaluation of Mineral Research and Technology Analytical Techniques & Assay Hydrogeochemistry Environmental Geology and Surface Processes Quarry and Open-Pit Management

In addition to his primary role of developing the optimum process flow sheet, managing the pilot scale testing and assisting in the design of the operating plant for Campoona, Dr Lock will also manage ongoing test work of Archer's magnesite, manganese, copper, barite and coal to liquids interests.

### **About Archer Exploration Limited:**

Archer Exploration Limited (ASX:AXE) is a copper, gold and uranium 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 7,000 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.

The company's flagship Evelyn Dam prospect in the West Roxby Project is an iron ore-copper-gold-uranium (IOCG-U) target which has a gravity anomaly similar in size to the nearby Olympic Dam operations.

Archer Exploration Limited has an experienced board and management team and has the ability to maximise the potential of the company's world-class projects.

### **Contact:**

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