

The Olympic Dam copper-uranium-gold-silver-rare earth element deposit, South Australia: A geophysical case history

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ABSTRACT

The Olympic Dam polymetallic deposit is located 520 km northnorthwest of Adelaide, South Australia. The deposit has an inferred resource of 2660 Mt at 1.2% Cu, 1.4 kg/t U₃O₈, 0.5 g/t Au. The deposit occurs in a hydrothermal breccia complex within Mesoproterozoic crystalline basement of the Stuart Shelf. It is overlain by 240 m of flat-lying sedimentary rocks and has no surface expression. The mineralisation is irregularly distributed within the breccia complex, occurring predominantly in haematite-rich matrix material. The deposit was located in 1975 by Western Mining Corporation by the drilling of coincident gravity, magnetic and tectonic targets, identified with respect to a geological conceptual model.

The Olympic Dam deposit coincides with a 17 mGal gravity anomaly, caused by haematite-rich polymict breccias. The source of a broad 1600 nT magnetic anomaly, which is closely associated with the deposit, is interpreted as being due to several geological entities, including magnetite in the deposit and the host granite.

Electrical geophysical surveys have been tried over the Olympic Dam deposit since discovery. Due to the disseminated nature of the sulphide mineralogy, emphasis has been placed on IP techniques. Initial experimentation was not encouraging, due to the low signal-to-noise ratio and the dominance of electromagnetic coupling. However, in 1980 a high-power transmitter and digital IP receiver were employed to combat the above two factors. The deposit was covered with 400 m dipole-dipole surveys with an 800 m line

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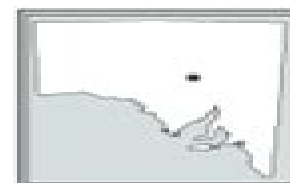


Fig.1. Map of eastern South Australia showing the regions defined during initial targeting leading to discovery of the Olympic Dam deposit. Geology from Prosser (1993). Also shown are the positions of the Andamooka and Torrens 1:250,000 map sheets.

spacing. These data detected an apparent resistivity low, restricted to the southern and central sections of the deposit. The cause of this low is interpreted as being porous, matrix-rich, haematitic breccias, in which the dominant form of haematite is a black crystalline variety. Pore fluids are highly saline, with an apparent resistivity of between 0.1 and 0.05 Ωm . The source of a positive phase-angle response is not well understood, but it has a close spatial relationship with the extent of the haematite-rich breccias, whether these breccias are mineralised or not. This interpretation is not consistent with the results of downhole logging using relatively small geometric survey parameters. This inconsistency reflects the difficulty in trying to reconcile small-scale physical property measurements with the larger scale surface measurements, for such a complex, inhomogeneous mineralised environment.

Olympic Dam Copper Uranium Gold Deposit

John Ridley



Olympic Dam Copper Uranium Gold Deposit:

The Olympic Dam Copper-uranium-gold Deposit, Roxby Downs, South Australia D. E. Roberts, G. R. T. Hudson, 1982

Mineral Deposits and Evaluation, Mineral Deposits and Evaluation Introduction to Mineral Deposits Geological Formation of Mineral Deposits Exploration Techniques for Mineral Deposits Resource Estimation and Classification Economic Evaluation of Mineral Deposits Environmental Considerations in Mining Conclusion and Key Takeaways

Hydrothermal Mineral Deposits Franco Pirajno, 2012-12-06 This book is intended primarily for exploration geologists and post graduate students attending specialist courses in mineral exploration Exploration geologists are engaged not only in the search for new mineral deposits but also in the extension and re assessment of existing ones To succeed in these tasks the exploration geologist is required to be a generalist of the Earth sciences rather than a specialist The exploration geologist needs to be familiar with most aspects of the geology of ore deposits and detailed knowledge as well as experience play an all important role in the successful exploration for mineral commodities In order to achieve this it is essential that the exploration geologist be up to date with the latest developments in the evolution of concepts and ideas in the Earth sciences This is no easy task as thousands of publications appear every year in an ever increasing number of journals periodicals and books For this reason it is also difficult at times to locate appropriate references on a particular mineral deposit type although this problem is alleviated by the existence of large bibliographic data bases of geological records abstracts and papers on computers During my teaching to explorationists and indeed during my years of work as an explorationist the necessity of having a text dealing with the fundamental aspects of hydrothermal mineral deposits has always been compelling Metallic mineral deposits can be categorised into three great families namely 1 magmatic 2 sedimentary and residual 3 hydrothermal *Geochemistry, Mineralogy and Genesis of Gold Deposits* I.Y. Nekrasov, 2018-05-02 The behaviour of gold in sedimentary magmatic and postmagmatic processes are studied and 40 gold bearing minerals including ten which were recently discovered are described The results are presented of new experimental studies on phase relations in gold sulphide systems The solubility form of gold migration in high temperature chloride sulphide and arsenic solutions are determined Based on the new data the genesis of gold deposits is studied and a geochemical classification proposed This book is designed for specialists in the field of gold chemistry geochemistry and mineralogy and for field geologists surveying and prospecting for gold *Economic Geology* Walter L. Pohl, 2011-04-25 Humanity's ever increasing hunger for mineral raw materials caused by a growing global population and ever increasing standards of living has resulted in economic geology becoming a subject of urgent importance This book provides a broad panorama of mineral deposits covering their origin and geological characteristics the principles of the search for ores and minerals and the investigation of newly found deposits Practical and environmental issues that arise during the life cycle of a mine and after its closure are addressed with an emphasis on sustainable and green mining The central scientific theme of the book is to place the extraordinary variability of

mineral deposits in the frame of fundamental geological processes The book is written for earth science students and practicing geologists worldwide Professionals in administration resource development mining mine reclamation metallurgy and mineral economics will also find the text valuable Economic Geology is a fully revised translation of the the fifth edition of the German language text Mineralische und Energie Rohstoffe Additional resources for this book can be found at www.wiley.com/go/pohl/geology The author s website can be found at <http://www.walterpohl.com> *Advanced Economic Geology* Mr. Rohit Manglik,2024-07-24 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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The Impact of the Geological Sciences on Society Marion E. Bickford, 2013-09-24 This volume addresses the impact of the geological sciences from 1963 2013 in such areas as geologic hazards mineral resources energy resources water resources soil resources geology and health geologic education and the informing of general public policy The chapters focus on how earth science informs and benefits society Provided by publisher *Minerals Yearbook* ,2010 **Introduction to Mineralogy and Petrology** Swapan Kumar Haldar, 2020-07-29 Introduction to Mineralogy and Petrology second edition presents the essentials of both disciplines through an approach accessible to industry professionals academic researchers and students alike This new edition emphasizes the relationship between rocks and minerals right from the structures created during rock formation through the economics of mineral deposits While petrology is classified on the lines of geological evolution and rock formation mineralogy speaks to the physical and chemical properties uses and global occurrences for each mineral emphasizing the need for the growth of human development The primary goal is for the reader to identify minerals in all respects including host rocks and mineral deposits with additional knowledge of mineral exploration resource extraction process and ultimate use To help provide a comprehensive analysis across ethical and socio economic dimensions a separate chapter describes the hazards associated with minerals rocks and mineral industries and the consequences to humanity along with remedies and case studies New to the second edition includes coverage of minerals and petrology in extra terrestrial environments as well as case studies on the hazards of the mining industry Addresses the full scope of core concepts of mineralogy and petrology including crystal structure formation and grouping of minerals and soils definition origin structure and classification of igneous sedimentary and metamorphic rocks Features more than 250 figures illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry *Ore Deposit Geology* John Ridley, 2013-07-04 This book systematically describes and illustrates major ore deposit

types and links deposits to geological settings and the processes behind their formation *Giant Metallic Deposits* Peter Laznicka, 2010-09-02 Metals in the earth's crust are very unevenly distributed and traditionally a small number of ore deposits districts or countries have dominated the world supply and have influenced commodity prices The importance of exceptionally large or rich deposits has greatly increased in the age of globalization when a small number of international corporations dominate the metals market based on few very large ore deposits practically anywhere in the world Search for giant orebodies thus drives the exploration industry not only the in house teams of large internationals but also hundreds of junior companies hoping to sell their significant discoveries to the big boys Geological characteristics of giant metallic deposits and their setting and the politico economic constraints of access to and exploitation in prospective areas have been a hot topic in the past fifteen years but the knowledge generated and published has been one sided scattered and fragmented This is the first comprehensive book on the subject that provides body of solid facts rather than rapidly changing theories written by author of the Empirical Metallogeny book series and founder of the Data Metallogenica visual knowledge system on mineral deposits of the world who has had an almost 40 years long international academic and industrial experience The book will provide abundant material for comparative research in metallogeny practical information for the explorationists as to where to look for the elephants and some inspiration for commodity investors *Year Book Australia 2000* ,2000

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