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Summary

John is an entrepreneurial economic geologist since 1988 as a consultant and then founder and manager of three public resource companies raising a total of US\$60 million. These resource companies are currently successfully exploring and developing gold and base metal projects in Europe, and sub-Sahara Africa. John has seen a lot of rocks working for consultancies such as CSA in both Ireland and Australia and as Senior Associate Geologist with Chlumsky Armbrust & Meyer LLC which is based in Denver. He has "fire in his belly" and as a geologist should, he loves to get his boots on the ground. His work has taken him from the Sahel of sub-Sahara to the Tapajos of the Amazon Basin to the far east of Siberia and the outback of Australia and the jungles of Indonesia. He was part of very small teams which discovered and sourced several multi-million ounce gold deposits in Africa. John is professionally accredited geologist (P.Geo and EurGeol) and holds a Master's Degree in Geology Pennsylvania State University and a MBA from the Edinburgh School of Business, Heriot-Watt University, Scotland.

John has shown the tenacity, patience and focus required to implement many of his ideas over the years. He is very creative in the way he negotiates value-creating deals and he is a very effective marketer by the way he communicates complex technical ideas in a concrete way that can be easily grasped. He is a team builder and motivator by the way he shares his vision. He is committed to the development of his team members by supportive delegation. He is MD of his own Geological Consultancy - Irus Consulting Ltd.

John has recently moved more from managing public companies to consultancy and a more advisory role so as to concentrate more on geology and exploration and discovery.

Specific Expertise includes:

- ◆ Entrepreneurial Project Generation
- ◆ Value-generating deal negotiating
- ◆ Risk-mitigating due diligence
- ◆ Effective Marketing (raising US\$60m)
- ◆ Core team-building & motivation
- ◆ Identification of key project value-drivers

Management:

2007 (June) – Present

Director of Exploration of Sovereign Mines of Africa
(AIM-listed July 2011).

2007, April – Nov, 2013

CEO and President of Rathdowney Resources Ltd TSX-V

2011, March – Nov, 2013

Non Exec Chairman AIM-listed Orogen Gold Ltd

2012, September – Nov, 2013

Non Exec Director of Heatherdale Resources Ltd (TSX-V)

1995-1998 Exploration Manager of Maiden Gold N.L (ASX-Listed)
2002. Supervised a US\$2m feasibility study for Moydow Mines (TSX) & Normandy Mining on the Ntotoroso Gold Project (US\$105m Capex) – Ahafo Gold Mine, Ghana.
1998-2002. Principal of Irus Consulting Ltd – Independent evaluations/audits and technical reports on metal resource projects for public exploration and development companies.

Financial: M.B.A, early-career background in banking - Project valuations of various advanced and producing gold and copper projects in CIS, Europe, South Africa and Australia.

Achievements:

- Founder director of Rathdowney Resources Ltd which acquired advanced zinc projects in Poland in 2010 and assembled a major portfolio of base-metal exploration properties in Ireland and which has to date attracted an investment of C\$41 million listing on TSX-V in March 2010.
- As CEO of Maiden Gold NL (ASX) discovered the Tuskar Zone 4.5 million ounce gold deposit at Nyanzaga, Tanzania in 1996 now Sub Sahara Gold (ASX)-Barrick JV.
- Supervised successful completion of US\$2m feasibility study on the Ntotoroso Gold project (now part of Newmont’s African-flagship Ahafo Gold project in Ghana for Normandy-Moydow JV before sale in 2001
- Key member of project-team which advanced the Lisheen Zn-Pb mine in Ireland (23Mt @ 12% Zn, 2% Pb from early exploration through to feasibility 1992-94
- 1996 managed successful transformation and relaunching of Maiden Gold (ASX) as an exciting Africa-focused gold explorer.
- In 2003 identified the Sankarani Gold Portfolio opportunity in SE Mali for Glencar Mining NL (AIM), which has attracted over \$100 million investment from Gold Fields in exploration and project development to date.

Experience: 2007- 2013 – CEO and President of Rathdowney Resources ltd- a well resourced base-metal exploration company using the latest ore deposit concepts and technology to discover the next generation of tier-1 deposits in Europe.
 2002-2006 - International Management Consultant and Independent Expert (Irus Consulting Ltd, Dublin and CAM Mining Consultants LLC , Denver)
 1999-2002 Moydow Mines International – Management Consulting – Ntotoroso, Gold Project in Ghana.
 1995-1998 Exploration Manager, Maiden Gold N.L (ASX)
 1992-1995 Senior Geological Consultant, CSA based in Dublin , Perth and Dar es Salaam, Tanzania.
 1988-1992. Project Geologist Glencar Mining-Ireland (base-meals), Ghana (gold).
 1974-1979 International and Retail Banking. Bank of Ireland, Dublin & UK

Special Assignments

Independent evaluations of copper and gold projects in Brazil, Peru, South Africa, Russian-Far-East, Scandinavia and Scotland for 43-101 and Competent-Person Reports.

Education:

M.Sc - Geology; The College of Earth & Mineral Sciences, Penn State University (1987)

MBA - Edinburgh School of Business, Heriot-Watt University (2003)

B.A. – Geology (*Magna cum Laude*), State University College of New York (1983)

PROFESSIONAL AFFILIATIONS:

Member of the *European Federation of Geologists* EurGeol (55); Professional Member of the *Institute of Geologists of Ireland PGeo* (19); Member of the *Society of Economic Geologists* (612730)

Specialist Technical Committees on Resources

Institute of Geologists of Ireland – one of four representative members on the **Pan-European Reserves and Resources Reporting Committee (PERC)** which manages and updates the PERC Reporting Code.

Member of the Technical Advisory Group to assist the **United Nations Economic Commission for Europe (UNECE) Expert Group on Resource Classification (EGRC)** which is responsible for the promotion and further development of the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (UNFC-2009).