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Summary

Successful exploration and discovery is based on a deep understanding of ore forming processes and strategic decision making to mitigate risk. Exploration strategy without effective tactics is the slowest route to discovery; exploration tactics without strategy is the noise before failure. His exploration experience for precious and base metals over thirty years spans five continents. He discovered and sourced several multi-million-ounce gold deposits in sub Saharan Africa. He has been a founder and manager of three public resource companies raising over US\$60 million.

John previously worked as a Senior Associate for consultancies such as Crowe Schaffalitzky and Associates based in both Ireland and Australia and as Senior Associate Geologist with Chlumsky Armbrust & Meyer LLC based in Denver, USA. John is professionally accredited geologist (P.Geo and EurGeol) and holds a MSc in Geology from the College of Earth and Mineral Sciences at the Pennsylvania State University and a MBA from the Edinburgh School of Business, Heriot-Watt University, Scotland. Recently he became a Fellow of the Society of Economic Geologists

Specific Expertise includes:

Weaving entrepreneurial drive with strategic and technical expertise and business acumen.

- ◆ Exploration leadership and value creation
- ◆ Strategic high-level advisory
- ◆ Insightful guidance and assistance on project-generation/ acquisition & implementation.
- ◆ Core team-capacity building & motivation and effective management of consultants
- ◆ Identification of key project value-drivers and potential fatal flaws – SWOT analysis)

Executive Management:

Sept 2019 - Present	Associate Principal Consultant CSA Global
Dec 2017 – Nov 2019	VP Exploration Strategy Group Eleven Resources Corp (TSX-V)
2015 May – December 2017	Co Founder and Director of Group Eleven Resources Ltd (Irish Ltd Co)
2018 January – July 2019	VP Exploration Director of Pasinex Resources Ltd
2014 September – Dec 2017	Director of Exploration - Pasinex Resources Ltd
2007 June – June 2015	Exploration Director of Sovereign Mines of Africa - (Aim)
2007 April – Nov, 2013	Co Founder 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)

Consulting

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 see Separate Irus Statement of Qualifications for full list of clients.

Achievements:

- 2018 – VP Exploration, discovered the deeper zinc sulphide black shale hosted mineralization at the Spur Zinc Project near Elko, Nevada.
- 2012 - 2015 VP Exploration, Sovereign Mines of Africa (AIM), discovery and maiden resource of 600,000 ounces of gold at Mandiana Gold Project in eastern Guinea across the border from Yanfolila in southeast Mali.
- Founder director of Rathdowney Resources Ltd (**TSX-V**) which acquired advanced **the Olza** zinc project in **Poland** in 2010 which has to date attracted an investment of C\$41 million
- 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 Yanfolila Gold Portfolio opportunity in **SE Mali** for Glencar Mining NL (AIM), which attracted over \$100 million investment from Gold Fields in exploration and project development to date. – Gold Mine later developed by Hummingbird.

Experience:

- 2015-2019 Founding Chairman/ VP Exploration Strategy - Group Eleven Resources (TSX-V) www.groupelevenresources.com
- 2014-2010. Director and VP Exploration. Pasinex Resources (CSE) www.pasinex.com
- 2007- 2013 – Founder, CEO/President of Rathdowney Resources Ltd (TSX-V) www.rathdowneyresources.com
- 2002-2006 - International Management Consultant and Independent Expert (Irus Consulting Ltd, Dublin and CAM Mining Consultants LLC, Denver USA)

1999-2002	Senior Consulting Geologist Moydow Mines International (TSX) Ntotoroso, (Ahafo) Gold Project in Ghana.
1995-1998	Exploration Manager, Maiden Gold N.L (ASX) – Perth, Australia
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:

MSc - 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); Fellow of the *Society of Economic Geologists* (612730)

Specialist International Technical Committees on Resources

Institute of Geologists of Ireland (IGI) – 2020 - Member of MIWG sub-group on responding to strategy for Irish mining and metals sector public engagement.

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

Former 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 (UNFC-2009).