Structural geology of the Timiskaming and Cadillac groups along the Malartic segment of the Larder Lake–Cadillac deformation zone and implications for gold mineralization, Abitibi greenstone belt, northwestern Québec

INTRODUCTION

The Malartic segment is a NW-trending section of the overall E-trending Larder Lake–Cadillac deformation zone (LLCDZ; Figure 1a). This study documents three deformation events which affect the supracrustal rocks found adjacent to this segment of the LLCDZ. These supracrustal rocks include turbidites with local iron formations and conglomerates of the Cadillac Group and polymictic conglomerates, sandstones and argillites of the Timiskaming Group (Figure 1b).







Samson, B.¹, Lafrance, B.¹, Zhou, X.¹ ¹Mineral Exploration Research Centre, Harquail School of Earth Sciences, Laurentian University, Sudbury, Ontario



Original stratigraphy: Horizontal bedding









METALEARTH METALEARTH APOGÉE RESEARCH EXCELLENCE FUND

STRUCTURAL INTERPRETATIONS

Regional folding: F_1 folds with an axial planar S_1



De Souza et al., 2015; Ore Geology Reviews. 84, 185–201 Midland Exploration Inc. 2016; retrieved from URL http://www.midlandexploration.com/er Communique.aspx?ResourceId=31fa1039-8a5a-4807-a8c7-2ea5bc814052 [last accessed: September 2017].





LaurentianUniversity UniversitéLaurentienne **GOODMAN** SCHOOL OF MINES ÉCOLE DES MINES



REFERENCES

Perrouty et al., 2017; Ore Geology Reviews. 84, 185-201.

Pilote et al., 2014; Ministère de l'Énergie et des Ressources du Québec. DV 2015-03.

Pilote et al., 2015; In: Abstracts of Oral Presentations and Posters, Québec Mines, 2014. Ministère de l'Énergie et des Ressources Naturelles, p.37.

> SIGÉOM. c2003-2017. Québec (QC): Governement du Québec. [accessed: 2017 Sept 14]. http://sigeom.mines.gouv.qc.ca/signet/classes/I1102_indexAccueil?I=a#