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ECGLAI 105(3) 459–712
ISSN 0361-0128

Advancing Science and Discovery Since 1905

Economic Geology

BULLETIN OF THE SOCIETY OF ECONOMIC GEOLOGISTS

May 2010

Volume 105 / Number 3

Iron Formations Worldwide

SO4 2- (Δ 33S < 0‰) S0 (Δ 33S > 0‰)

Δ 33S = 0‰, δ 56Fe ~ 0‰

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Banded iron formation
Black shale with pyrite nodules
Volcanogenic massive sulfides
Hydrothermal circulation cells
Subaerial / submarine plumes

SO4 2- (Δ 33S < 0‰) S0 (Δ 33S > 0‰)

Δ 33S = 0‰, δ 56Fe ~ 0‰