

ESM Table 7. Re-Os results on two molybdenite samples from the Abundancia deposit.

AIRIE Run #	Sample Name	Description	Re, ppm	±	¹⁸⁷ Os, ppb	±	Os _C , ppb	±	Age, Ma	±	Sample wt (g)
MD-1870	MOC-18-07A	Slickenside fracture	19.85	0.63	34.01	0.19	0.0024	0.0003	163.4	5.3	0.15963
MD-1886	MOC-18-07A	Slickenside fracture (R)	23.138	0.042	39.395	0.015	0.0000	0.0004	162.38	0.60	0.05329
MD-1887	MOC-18-07G	Slickenside fracture	369.72	0.60	588.38	0.20	0.022	0.005	151.79	0.55	0.02172

Re-Os determinations used a Carius tube dissolution with a mixed double-Os spike (Markey et al. 2003).

All data reported at 2-sigma uncertainty, and error on ages includes the ¹⁸⁷Re decay constant uncertainty (λ)

R = Rerun using the same mineral separate as MD-1870 to correct for spiking; age uncertainty is reduced.

Decay constant of Smoliar et al (1996) used for age calculations.

Os_C = Common (initial) osmium; Assumed Os initial ratio = 0.2.

Re blank = 2.13 ± 0.06 pg, Os blank = 0.099 ± 0.008 pg with ¹⁸⁷Os/¹⁸⁸Os = 0.350 ± 0.023

Blanks and common Os present are both insignificant to the Re-Os age calculations.