

Detailed petrographic description of each lithostratigraphic zone for all the studied boreholes							
Sample no.	Rex 2M						
	Abundance	Distribution & Remarks	Size (ovoids) or thickness (laminae) in mm	Mineralogy	Abundance	Size (mm)	Shape
<b>Matrix</b>	34%	Fine-grained and the braunite and hematite are microscopically intergrown.		Braunite	xxxx	0.0025-0.005	Anhedral
				Hematite	x	0.01	Subhedral
				Hausmannite	x	0.02	Subhedral
				Quartz	xx	0.001-0.008	Microcrystalline
<b>Ovoids</b>	20%	Unevenly; Irregular ovoids of medium size consist mainly of quartz with braunite and hematite inclusions. Some ovoids are zoned and have a core of todorokite needles.	1.1x0.4	Braunite	x	0.01	Anhedral
				Hematite	x	0.01	Anhedral
				Todorokite	x	0.005-0.01	Needles
				Quartz	xxxx	0.02	Microcrystalline
<b>Laminae</b>	10%	Finely laminated and consist mainly of quartz with braunite and todorokite inclusions.  Thin todorokite laminae.  Some laminae are filled with hausmannite and quartz as a result of the replacement of former diagenetic carbonates and oxides.	0.02-0.47	Braunite	x	0.01	Anhedral
				Todorokite	x	0.005-0.01	Needles
				Quartz	xxxx	0.015-0.02	Microcrystalline
				Todorokite	xxxx	0.01-0.02	Needles
				Hausmannite		0.4	
				Quartz	xxx	0.02	Subhedral
				xxxx	0.015-0.02	Microcrystalline	
<b>Other</b>		The zone has as a mottled appearance.					

xxxx - Dominant (>50%); xxx - Major (20-50%); xx - Minor (5-20%); x - Trace (<5%)



Sample no.	Rex 2M						
	Abundance	Distribution & Remarks	Size (ovoids) or thickness (laminae) in mm	Mineralogy	Abundance	Size (mm)	Shape
Other	1%	Unevenly; Horizontal cross-cutting veins with a core of romanèchite and a rim of barium rich romanèchite with todorokite on the outside.	0.3	Romanèchite Todorokite	xxxx xx	0.001 0.001	Anhedral Anhedral
	5%	Unevenly; Vertical cross-cutting veins consist quartz with inclusions of romanèchite with a todorokite core.	0.015-0.02	Romanèchite Todorokite Quartz	xx xx xxxx	0.022 0.011 0.015-0.02	
	30%	Porosity	0.05				
						0.01	Anhedral

xxxx - Dominant (>50%); xxx - Major (20-50%); xx - Minor (5-20%); x - Trace (<5%)

