Table 1. ***Minerals of the Saranovskoe Deposit***

Mineral	Formula	Abundance	Some characteristics of specimens (for legend see footnote)	
	Elements			
Gold (?)	Au	+		
Silver	Ag	+		
Copper-bearing silver		+		
Osmium**	Os	+		
Antimony (?)	Sb	+		
Sulfur**	S	+		
	Sulfides, sulfosalts			
Pyrite	FeS_2	++++	●	♦
Pyrrhotite (hex.)	$Fe_{1-x}S$	++		
Troilite (?)	FeS	+		
Marcasite**	FeS_2	+		
Chalcopyrite	$CuFeS_2$	++	●	♦
Bornite	Cu_3FeS_4	+		
Cubanite (?)	$CuFe_2S_3$	+		
Covellite**	CuS	++		
Chalcocite	Cu_2S	++		♦
Galena	PbS	+++		♦
Sphalerite**	Z*n*S	+		
Millerite	NiS	+++	●!!	♦
Pentlandite	$(Fe,Ni)_9S_8$	+++	●	
Vaesite	NiS_2	+		
Bravoite		+		
Siegenite**	$(Ni,Co)_3S_4$	+		♦
*Fe-rich siegenite***		+		
Heazlewoodite	Ni_3S_2	+		
Violarite	$FeNi_2S_4$	+	●	
Linnaeite (?)	$CoCo_2S_4$	+		
Polydymite**	$NiNi_2S_4$	++	●	
*Co-rich polydymite***		+		
Gersdorffite**	NiAsS	+		
Tetrahedrite**	$Cu_{10}Fe_2Sb_4S_{13}$	+		
Laurite	RuS_2	++		
Erlichmanite**	OsS_2	++		
Sperrylite**	$PtAs_2$	+		
Borovskite (?)	Pd_3SbTe_4	?		
Braggite (?)	(Pt,Pd,Ni)S	?		
Vysotskite (?)	(Pd,Ni)S	?		
Irarsite (?)	IrAsS	?		
Palladoarsenide (?)	Pd_2As	?		
Atheneite (?)	$(Pd,Hg)_3As$	?		
Stillwaterite (?)	Pd_8As_3	?		
	Oxides and hydroxides			
Gibbsite**	$Al(OH)_3$	+		
Diaspore ***(chromian: "saranite")***	AlOOH	++	●!	♦
Brucite	$Mg(OH)_2$	+++	●	
Ferrobrucite (?)		+		
Pyroaurite (?)	$Mg_6Fe^{3+}_2(CO_3)(OH)_{16} \cdot 4H_2O$	+		
Chromian pyroaurite (sjogrenite) (?)		+	●	
Stichite (?)		+		
Quartz (including *halcedony*)	SiO_2	+++	●	♦
Opal	$SiO_2 \cdot nH_2O$	+		
Magnetite	$FeFe_2O_4$	+++	●	♦
Titanomagnerite		+++		
Nickeloan Mg-bearing magnetite		+++		

Table 1. ***Continuation***

Mineral	Formula	Abundance	Some characteristics of specimens (for legend see footnote)	
Karpinskite (?)	$(Mg,Ni)_2Si_2O_5(OH)_2$	+		
Nepouite**	$Ni_3Si_2O_5(OH)_4$	+		
Pekoraite	$Ni_3Si_2O_5(OH)_4$	+		
Amesite**	$Mg_2Al(AlSiO_5)(OH)_4$	+++	●	♦
Chromian amesite		+++	●!!	♦
Kaolinite	$Al_2Si_2O_5(OH)_4$	+		
Clinochlore	$(Mg,Al)_6(Si,Al)_4O_{10}(OH)_8$	+++	●	♦
Pennite		+++	●	♦
Chromian pennite (kämmererite)		+++	●!!	♦
Leichtenbergite		++	●	♦
Chromian clinochlore (kochubeite)		++	●	♦
Chromian sheridanite*		+++	●!!	♦
Prochlorite		++	●	
*Ripidolite**		++	●	
*Aphrosiderite**		++	●	
Dellesite ?		+		
Diabantite ?		+		
Thuringite ?		+		
Nimite	$(Ni,Mg)_6Si_4O_{10}(OH)_8$	+	●!	
Montmorillonite**	$(Na,Ca)_{0.3}(Al,Mg)_2Si_4O_{10}(OH)_2 \cdot nH_2O$	+		
Beidellite (?)	$(Na,Ca)_{0.3}Al_2(Si,Al)_4O_{10}(OH)_2 \cdot nH_2O$	+		
Nontronite	$Na_{0.3}Fe^{3+}_2(Si,Al)_4O_{10}(OH)_2 \cdot nH_2O$	++		
Saponite**	$(Ca,Na)_{0.3}(Mg,Fe^{2+})_3(Si,Al)_4O_{10}(OH)_2 \cdot 4H_2O$	+		
Sepiolite**	$Mg_4Si_6O_{15}(OH)_2 \cdot 6H_2O$	+		
Stilpnomelane**	$K(Fe,Mg,Al)_8(Si,Al)_{12}(O,OH)_{36} \cdot nH_2O$	++		
Barian stilpnomelane		+		
Pb-bearing stilpnomelane		+		
Ferristilpnomelane** (?)		++		
Chrysocolla	$(Cu,Al)_2H_2Si_2O_5(OH)_4 \cdot nH_2O$	+		
"Kerolite"**		+++	●	
*"Ferrokerolite"***		++	●	
Rectorite	$(Na,K,Ca)(Al,Mg)_4(Al_{1.5}Si_{6.5}O_{20}(OH)_4 \cdot 35H_2O$	+	●	
	Tectosilicates			
Albite	$NaAlSi_3O_8$	++	●	♦
Andesine		+		
Labradorite		++		
Bitownite		++		
Anorthite	$CaAl_2Si_2O_8$	+++		
Orthoclase	$KAlSi_3O_8$	+		
Microcline	$KAlSi_3O_8$	+		

Mineral species and varieties whose occurrence at the deposit is not supported by reliable data:

Jadeite = tremolite; Cronstedtite = Ti-bearing phlogopite or ferristilpnomelane; Platinum ≈ laurite; Rhodochrosite = rhodochrome (misspelling name); Vesuvianite? = wrong geographical location (sample from the Bazhenovo deposit?); Diopside white? = wrong geographical location (sample from the Bazhenovo deposit?); Iridosmine = osmium.

Note. Mineral varieties are *italicized;* mineral species and varieties discovered at the Saranovskoe deposit are **bolded**. Minerals, which undoubtedly occurred at the deposit, but completely replaced at present (reconstructed based on pseudomorphs) are in brackets.

** – Minerals and mineral varieties described for first time for the deposit by author (or by author together with colleagues),

(?) Identification of a mineral seems doubtful.

Abundance of mineral:

(+++++) major gangue, rock-forming, or ore component; (++++) common; (+++) less-common; (++) rare; (+) extremely rare or accessory.

(●!!, ●!, ●) Minerals found at the deposit as specimens of high museum quality including:

(●!!) the top-quality samples, outstanding for their mineral species over the world,

(●!) high-quality specimens.

(♦) Minerals found at the deposit as megascopic well-formed crystals.