Hookana

Occurence type: occurrence

Commodity	Rank	Total measure	Total production	Total resource	Importance
gold	1	NA	NA	NA	NA

Easting EUREF: 476662,008
Northing EUREF: 7496592,085
Easting YKJ: 3476825
Northing YKJ: 7499725

Discovery year: 1986
Discovered by: Geological Survey of Finland
Province: Kittilä (Au, Cu)
Comments: Discovery by GTK during regional geochemical exploration program, auriferous boulders led to the mineralised outcrops

Mineral deposit type

Group: Metallogenic deposit
Main type: Orogenic (metamorphic hydrothermal)

Dimension

Expression: exposed
Form: NA
Shape: NA
Length (m): NA
Width (m): NA
Thickness (m): NA
Depth (m): NA
Area (ha): NA
Dip azim: NA
Dip: NA
Plunge azim: NA
Plunge dip: NA
Orientation method: NA

Holder history

Previous holders:

Company	Years	Holding type	Comments
AA Sakatti Mining Oy	2014-2019	Claim (old law)	NA
Scan Mining Oy	2004	NA	NA
Geological Survey of Finland	1986-1987	NA	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1986-1986	regional geochemistry	Eelis Pulkkinen	NA	3, 4
	During regional geochemical exploration program, auriferous boulders led to the mineralised outcrops.			
1986-1987	detailed geochemistry	Eelis Pulkkinen	NA	3, 4
1986-1987	detailed geology	Eelis Pulkkinen	NA	3, 4
1986-1987	percussion drilling	Eelis Pulkkinen	NA	3, 4
1986-1986	core drilling	Eelis Pulkkinen	NA	3
	Core drilling (reconnaissance drilling): one diamond-drill hole, 25.5 m [GTK LOPPI data base], at the exact site, but a number to the east, 0.4-2 km from Hookana.			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	1m		
	gold	1ppm		
1986-1987	excavation	Eelis Pulkkinen	NA	3, 4
1986-1987	detailed geophysics	Eelis Pulkkinen	NA	3
	Response on slingram.			
1977-1977	regional geophysics	Eelis Pulkkinen	NA	3, 4
	Low-altitude airborne magnetic, electromagnetic and radiometric survey			
1971-1976	regional geochemistry	NA	NA	
	Regional till geochemical survey			

GEOLOGY

Host rock: Dolerite, Mica schist, Intermediate tuff

Dolerite (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: NA
References: 1, 3, 4

Ore minerals:

Mineral	Proportion	Mineral texture
Chalcopyrite	major	
Gold	present	
Pyrite	major	
Pyrrhotite	minor	

Other minerals:

Mineral	Proportion	Mineral texture
Biotite	present	Alteration product
Calcite	present	Alteration product
Quartz	present	
Tourmaline	present	

Structures
Breccia

Textures
Granoblastic

Alteration:	Distribution:	Degree:	Relation to mineralization:
carbonate alteration	NA	NA	NA
Comments: The domain of albitised and carbonated rocks is 1-2 km wide and 15 km long.			
albitic alteration	NA	NA	NA
Comments: The domain of albitised and carbonated rocks is 1-2 km wide and 15 km long.			

Metamorphic description:

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	greenschist metamorphic facies	low metamorphic grade	NA		
Comments: Metamorphic peak during D2, thrusting during D3 was at least partly post-peak, late metamorphic; Albite-actinolite-epidote.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:

Paleoproterozoic (2500-1600 Ma)	1600-2500		N

Mica schist (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 2, 3, 4

Alteration:	Distribution:	Degree:	Relation to mineralization:
albitic alteration	NA	NA	NA

Metamorphic description:

Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	greenschist metamorphic facies	low metamorphic grade	NA		
Comments: Metamorphic peak during D2, thrusting during D3 was at least partly post-peak, late metamorphic.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Paleoproterozoic (2500-1600 Ma)	1600-2500		N

Intermediate tuff (Host rock)

Rock type: Host rock
Proportion: minor
Grain size: NA
Color: NA
References: 1, 2, 3, 4

Alteration:	Distribution:	Degree:	Relation to mineralization:
albitic alteration	NA	NA	NA

Metamorphic description:

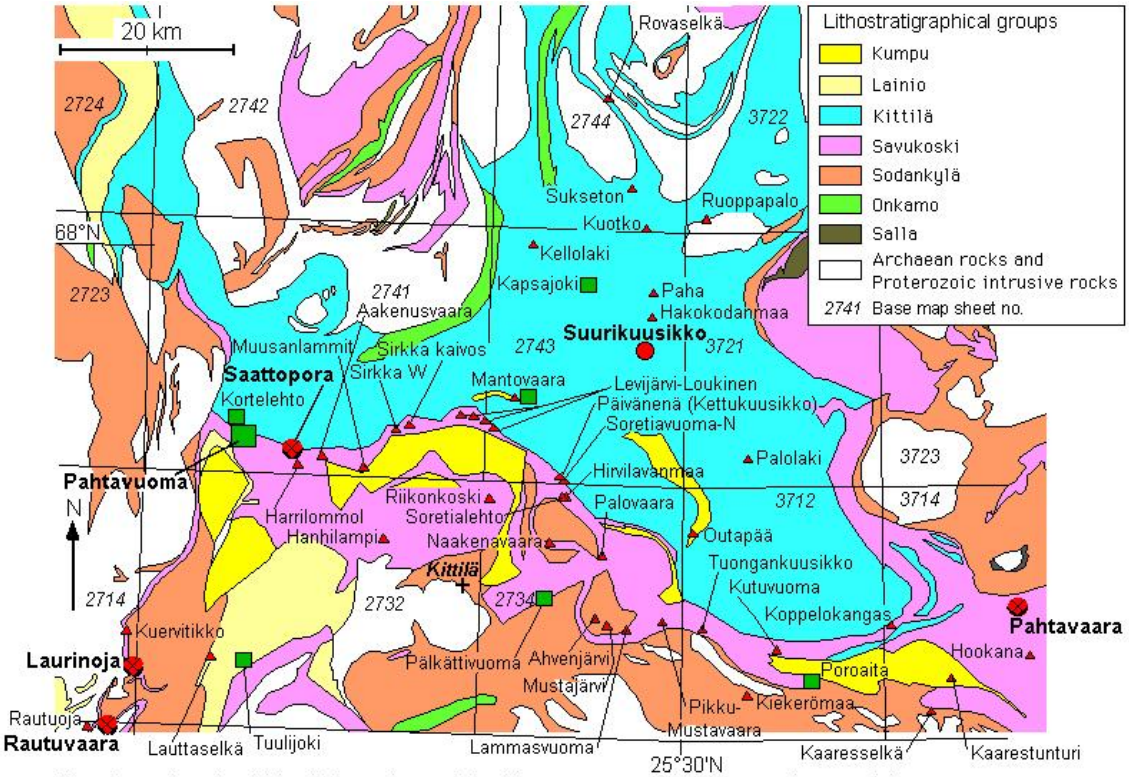
Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	greenschist metamorphic facies	low metamorphic grade	NA		
Comments: Metamorphic peak during D2, thrusting during D3 was at least partly post-peak, late metamorphic.					

Geological age:

Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Paleoproterozoic (2500-1600 Ma)	1600-2500		N

Figures

Regional geology:



Zinc (green) and gold (red) deposits and significant prospects in the central parts of the Central Lapland greenstone belt. Lithostratigraphy from Lehtonen et al. (1998). Edited by P. Eilu (2007)

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2. Lehtonen, M., Airo, M.-L., Eilu, P., Hanski, E., Kortelainen, V., Lanne, E., Manninen, T., Rastas, P., Räsänen, J. & Virransalo, P. 1998. Kittilän vihreäkivialueen geologia: Lapin vulkaniittiprojektin raportti. Summary: The stratigraphy, petrology and geochemistry of the Kittilä greenstone area, northern Finland: a report of the Lapland Volcanite Project. Geological Survey of Finland, Report of Investigation 140. 144 p.*http://tupa.gtk.fi/julkaisu/tutkimusraportti/tr_140.pdf*

3. Pulkkinen, E. 1998. Personal communication 21/08/1998.

4. Pulkkinen, E., Ollila, J., Manner, R. & Koljonen, T. 1986. Geochemical exploration for gold in the Sattasvaara komatiite complex, Finnish Lapland. In: Prospecting in areas of glaciated terrain 1986: papers presented at the Seventh International Symposium organised by The Institution of Mining and Metallurgy and The Geological Survey of Finland, Kuopio, 1-2 September, 1986. London: The Institution of Mining and Metallurgy, 129-137.