Pirilä-2

Alternative Names: Pirilä II
Occurence type: occurrence

Commodity	Rank	Total measure	Total production	Total resource	Importance
gold	1	0,08 t	NA	0,08 t	Occurrence

Easting EUREF: 554587,259
Northing EUREF: 6879115,688
Easting YKJ: 3554780
Northing YKJ: 6882000

Discovery year: 1984
Discovered by: Geological Survey of Finland
Province: Rantasalmi (Au)
References: 2, 5, 6

Mineral deposit type

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

Dimension

Expression: exposed
Form: discordant
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: 40
Orientation method: NA

Holder history

Current holder: Southern Ostrobothnia Minerals Oy
Years: 2019
Holding type: Application for exploration permit

Previous holders:

Company	Years	Holding type	Comments
Mineral Exploration Network (Finland) Limited	2017	Application for reservation	NA
BR Gold Mining Oy	2005-2013	Claim (old law)	NA
Belvedere Resources Ltd	2004	NA	NA
Geological Survey of Finland	1984-1986	NA	NA

EXPLORATION ACTIVITY

Geological Survey of Finland

Years	Activity type	Geologist	Exploration result	Ref
1984-1986	detailed geology	Hannu Makkonen.	NA	5
	Gold-mineralised outcrop detected by following glacial erratic boulder trains and till geochemistry			

1984-1986	detailed geophysics	Hannu Makkonen.	NA	5
	Good response with IP.			

1984-1986	regional geochemistry	Hannu Makkonen.	NA	5
	Gold-mineralised outcrop detected by following glacial erratic boulder trains and till geochemistry.			

1984-1986	excavation	Hannu Makkonen.	NA	5

1984-1986	percussion drilling	Hannu Makkonen.	NA	5

1984-1986	core drilling	Hannu Makkonen.	NA	5, 6
	Core drilling (reconnaissance drilling): 11 diamond-drill holes , total 1604.8 m.			
	Intersections			
	HoleID	NA		
	From-To	NA		
	Length	2m		
	gold	3,4ppm		
	HoleID	NA		
	From-To	NA		
	Length	1,1m		
	gold	2,5ppm		
	HoleID	NA		
	From-To	NA		
	Length	1,5m		
	gold	2,7ppm		

1981-1981	regional geophysics	Hannu Makkonen	key geological features	
	Hannu Makkonen			

RESOURCES AND RESERVES

Most recent

Type:	Company:	Year:	Date:	Calc Method:	Reference:
Resource	Geological Survey of Finland	1987	NA	Non-compliant resource estimate	5
	Category:	**Inferred mineral resource**			
	Tonnage:	**0,03 Mt**			
	gold	2,7 ppm			
	Cutoff:	**NA**			

GEOLOGY

Host rock: Intermediate volcanic rock

Intermediate volcanic rock (Host rock)

Rock type: Host rock
Proportion: major
Grain size: NA
Color: NA
References: 1, 4, 5
Comments: Quartz ± arsenopyrite veins

Metamorphic description:
Ore minerals:

Mineral	Proportion	Mineral texture
Arsenopyrite	major	
Chalcopyrite	minor	
Electrum	minor	
Galena	minor	
Gold	minor	
Löllingite	major	
Pyrite	major	
Sphalerite	minor	

Other minerals:

Mineral	Proportion	Mineral texture
Quartz	present	

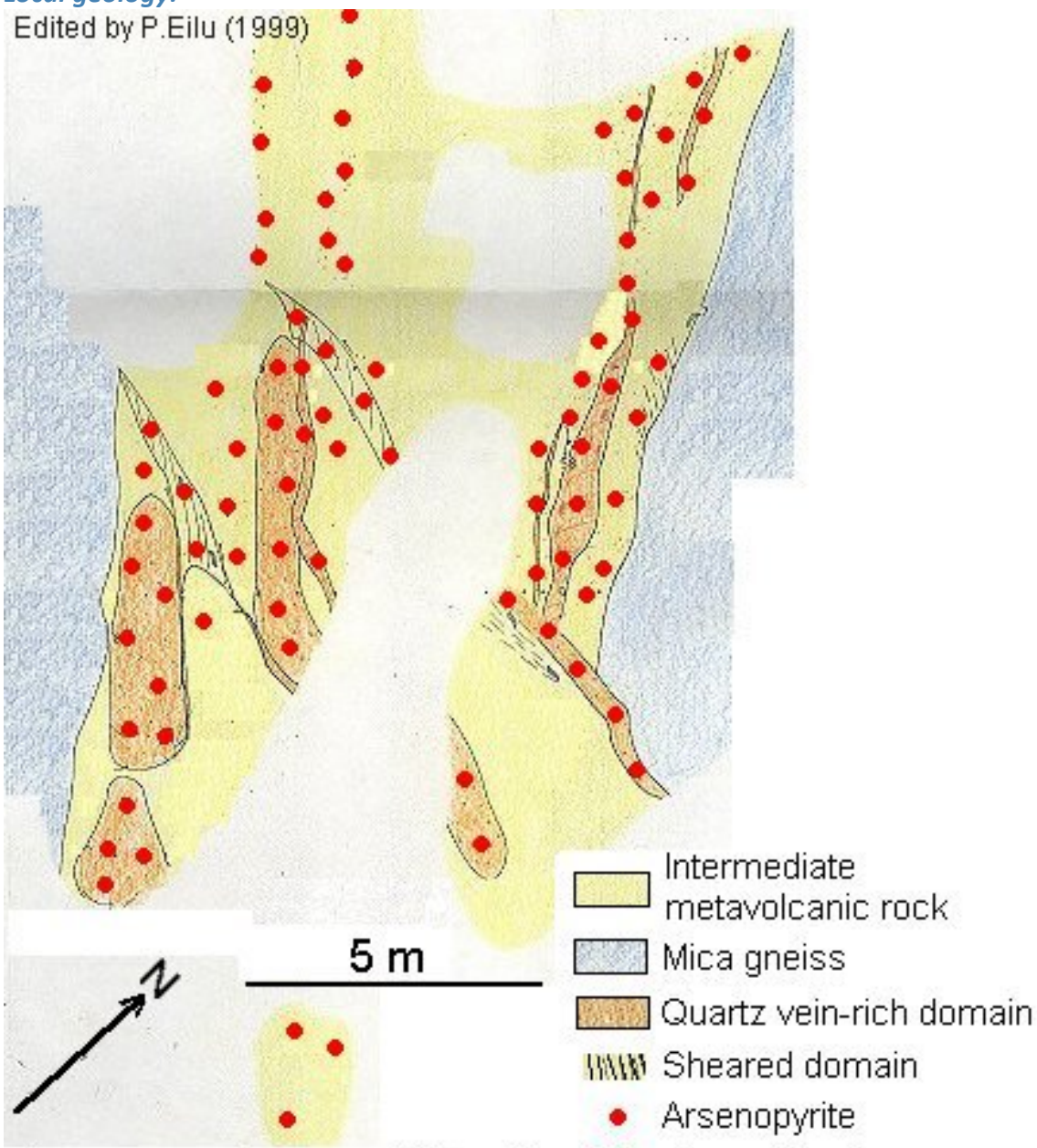
Type:	Facies:	Degree:	Relation to mineralization:	Min P- Max P (kbar)	MIn T- Max T (°C)
Regional	amphibolite metamorphic facies	medium metamorphic grade	NA		
Comments: Pb-Pb whole-rock acid-leach data gives an age of 1801±31 Ma at the Pirilä deposit nearby - this is, probably the age of retrograde metamorphism.					

Geological age:

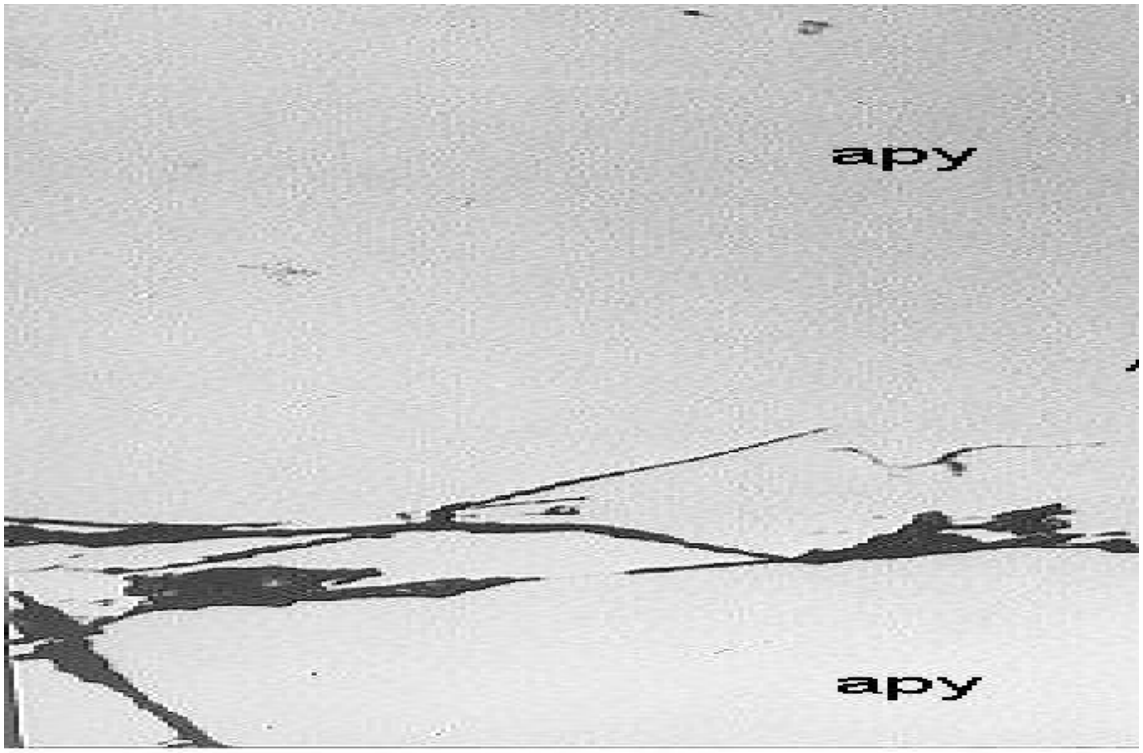
Geological era:	Max age - Minage (Ma):	Inferred age (Ma):	Age of mineralization:
Paleoproterozoic (2500-1600 Ma)	1600-2500		N

Figures

Local geology:

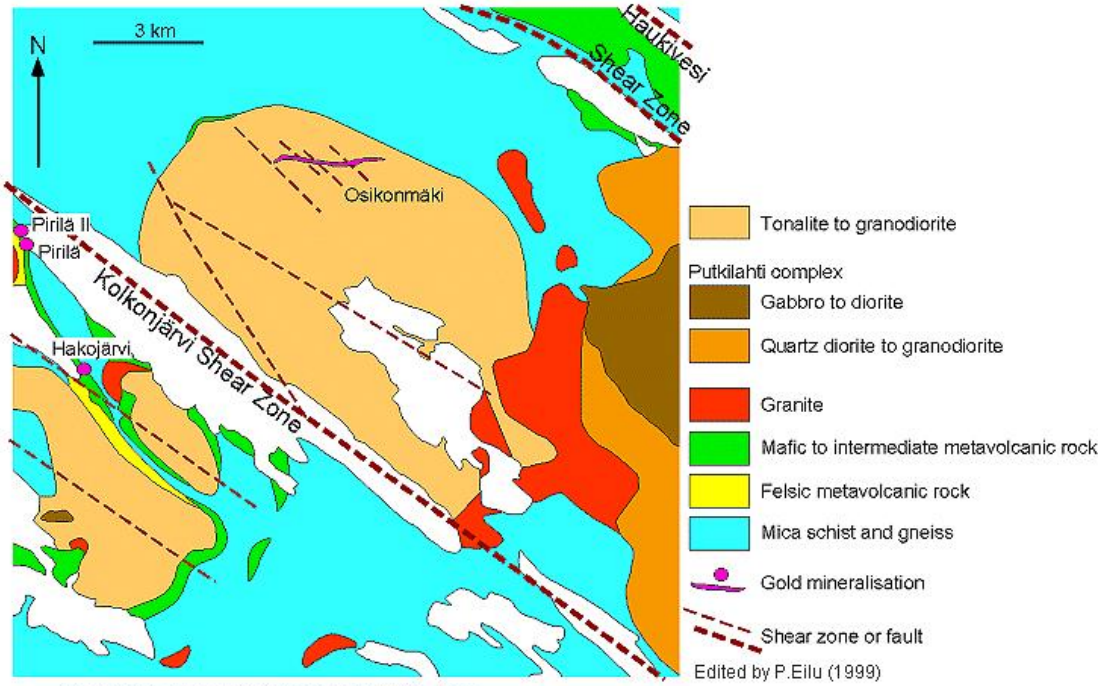


Outcrop gelogy at Pirilä II gold mineralisation. After Makkonen (1987).



Inclusions of nativ

Regional geology:



Geology of the Osikonmäki-Pirilä area.
White areas are lakes. After Kontoniemi (1998).

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1. Kontoniemi, O. & Vaasjoki, M. 1991. Isotopic studies from the Protereozoic Osikonmäki gold prospect at Rantasalmi, southeastern Finland. Geological Survey of Finland, Special Paper 12, 53-57. *http://tupa.gtk.fi/julkaisu/specialpaper/sp_012_pages_053_057.pdf*

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