

6663/8

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**FINSEARCH OY**  
c/o Roschier-Holmberg & Waselius,  
Attorneys Ltd

**Summary Report for the  
Kivisuo Claim (6663/8)**

**By: M.A. Riihiaho and P.K. Holmes**  
**December 10, 1998**

## **Summary Report on Claim Kivisuo (6663/8)**

### **1.0 INTRODUCTION**

This report summarizes the exploration activities undertaken by FINSEARCH OY within the Kivisuo claim (no. 6663/8), acquired to prospect for diamondiferous kimberlites. All the field work was supervised by the geological manager, Mr. P.K. Holmes. The claim was located on mapsheet 4513-02 in the Kuusamo area and situated in a swamp and forested area. One drill hole was sited within the claim to test the causative source of a geophysical anomaly.

### **2.0 REGIONAL GEOLOGY**

The bedrock geology of this subdomain, (the Taivalkoski block) of the Karelian megablock is comprised of Archean (ca. 2.7-2.8 Ga) granite gneiss. The region has been variably rejuvenated during the Svecokarelian orogeny at 1.9-2.0 Ga. Also, large layered gabbroic complexes intruded this terrane at 2.44 Ga.

The overburden thickness is variable ranging from 0 to 30 metres of till and glaciofluvial sediments deposited during the Late Weichselian Period. The Taivalkoski-Hossa Interlobate Complex is an areally extensive ice marginal deposit characterized by well sorted sands to poorly sorted bouldery material which greatly influenced the topography.

### **3.0 PROSPECTING METHODS**

Reconnaissance sampling programmes from various years identified a broad regional mineral anomaly in east central Finland. This sampling was conducted along roadways prior to the granting of mineral claims and hence will not be discussed.

### **4.0 GEOPHYSICS**

Regional government aeromagnetic, electromagnetic and radiometric data were acquired by Finsearch Oy from the Geological Survey of Finland. However, only the aeromagnetic data were interpreted by Anglo American Corporation-Geophysical Services Division, in Johannesburg, South Africa. Magnetic anomalies with kimberlite-like signatures were selected for further investigation. The Kivisuo anomaly was described as a smooth monopolar high.

## **5.0 DRILLING**

One vertical drillhole, Kivisuo, Hole 1 was located within the Kivisuo claim (6663/8) (map 1.) with a total of 15.7 metres of core recovered.

Kivisuo, hole 1 was drilled on April 17-20, 1998 to a depth of 25.0 metres, intersecting an amphibolite. No core samples were submitted for geochemical analysis. No kimberlite was intersected.

All core drilling was conducted by Suomen Malmi OY (SMOY) using a track-mounted GM 75 drilling rig. Core recovery was virtually 100% for the T56 (45 mm) diameter core.

Magnetic susceptibility was measured at two metre intervals using a Terraplus KT-5 susceptibility meter. The data corrected for core diameter were recorded in the appended drill logs.

## **6.0 CONCLUSIONS**

The source of the geophysical target was explained by the rock recovered. No further work is warranted since no kimberlite was recovered. Therefore the claim was abandoned on December 31, 1998.

M.A. Riihiaho  
December 10, 1998

**FINSEARCH OY  
DRILL LOG**

Drillhole No: Kivisuo Hole 1	
Claim Name and No: Kivisuo 6663/8	
Start Date: April 17, 1998	Completion Date: April 20, 1998
Mapsheet: 4513-02	Drill Site: 44-62-965 E, 72-36-925
Core Diameter: T - 56	Drill Type: GM 75
EOH: 25.0 m	Inclination: 90 °
Contractor: Suomen Malmi Oy	Geologist: Mark Riihiaho

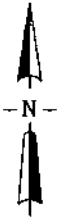
**CORE DESCRIPTION**

Drill Interval (m)	Lithology	Depth (m)	Mag Susc.
0 - 9.3	• Overburden	9.5	16.2
		11.5	31.0
9.3 - 17.3	• Fine to medium grained, black amphibolite	13.5	31.0
	• Magnetic, rust stained, very broken, crumbly	15.5	57.6
		17.5	0.11
		19.5	1.17
		21.5	0.25
17.3 - 19.0	• Medium grained, pink granite	23.5	0.09
	• Non-magnetic, fractured	25.0	0.11
19.0 - 21.3	• Amphibolite, same as above		
	• very soft, waxy, (chlorite)		
	• foliation at 45 °		
21.3 - 25.0	• Granite, same as above		
	• more competent		
	Box 1: 9.3 - 14.9 m		
	Box 2: 14.9 - 20.1 m		
	Box 3: 20.1 - 25.0 m		

4,462,000E

4,463,000E

4,464,000E



7,238,000N

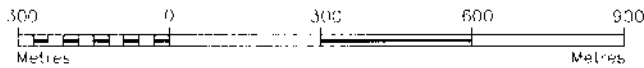
7,237,000N

7,236,000N

4,462,000E






4,463,000E

4,464,000E



Scale 1 : 15,000

LEGEND

-  Claim boundary
-  Number (coordinate)
-  Water
-  Reed
-  Trail

KIVISUO, 6663/8

KIVISUO

(4462965E,7236925N)

FINSEARCH OY

DRILLING 1998  
FINLAND PROJECT

CLAIM KIVISUO, 6663/8  
MAP 1

REVISION	DATE	DESCRIPTION	BY	AUTHOR:	SCALE
				URBAN:	1 : 15,000
				A. Latendresse	FILE: Kivisuo.dwg
				DATE: 07/13/98	NTS: 4513-02