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Rapportarkivet

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Tittel The geology of the Druguvatn area									
Forfatter Bollingmo, Åse			Dato 30.12 1981			Bedrift Orkla Industrier A/S			
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Fagområde Geologi	Dokument type		Forekoms Druguvat			ter n-området, Løkken			
Råstofftype Malm/metall		Emneord							
Sammendrag									

GULF - ORKLA

LØKKEN VENTURE

REPORT NO.: L.V.5 DATE: 30.12.1981

TITLE: The geology of the Druguvatn area

ORKLA INDUSTRIER A.S.

MINING SECTION, EXPLORATION

Report no: L.V.5	Dete: 30.12.1981							
Title:								
The geology of the Druguvatn a	rea, preliminary report							
Prepared by: Åse Bollingmo	Areas name: Druguvatn area							
Map no., name:	Coordinates (UTM):							
15213 Løkken	NW-corner: 28015							
Field work period(s):	Pages:							
7.9 - 14.9.1981	Map enclosures: 4							
Summary (purpose, execution, results):								
A system of turam anomalies was to be investigated. VLF-measurements gave several anomalies. The following geological mapping did not give any answers to what could be the anomalies' reasons. Some of the anomalies should be further examinoted. During the geological mapping some interesting mineralized zones were discovered. These should be more detailed mapped.								
Key words: Geological mapping, VLF								
Project initiated (date): 7.9.1981	Report finished (date): 30.12.1981							

C O N T E N T:

- 1. Introduction
- 2. Geology
- 3. Discussion of VLF measurements
- 4. Conclusion
- Enclosures: 1. Map 1: General view of areas west of Orkla river, 1:20.000
 - 2. Turam anomalies and VLF-net
 - 3. VLF-curves
 - 4. Geological map, 1:5000

1. Introduction

The Druguvatn area covers about $2 \times 1.5 \text{ km}^2$ south of Litlvatnet and between the road from Storås to Hoston and Orkla river (Encl. 1).

A system of turam anomalies was to be investigated (Encl. 2).

In the northern part of the area some VLF-measurements were done (Encl. 3).

South of Langdalsvann a preliminary geological mapping was done (Encl. 4). Samples were collected, and thin - and polished sections were prepared. These will be examined and described in a later report in case they change the conclusion.

2. Geology

In the Druguvatn area you find greenstones of the Støren group. Most often they occur as pillow lava. This is variolitic, except for some localities around the eastern end of Dammyra. Here vesicular pillows are more common.

The greenstones are cut by several dolerite dykes. As a general thesedip slightly to the north and strike E-W. Often the dykes contain disseminated pyrrhotite, more seldom pyrite.

Two localities with jasper are observed.

The geological mapping gave no sufficient explanation for the turam anomalies.

3. Geophysics

VLF-measurements were done in the northern part of the area.

Profile direction: 3^g
Profile intervals: 100 m

Measurements intervals: 25 metres

VLF-station: NAA

Measurement are: 1400 m²

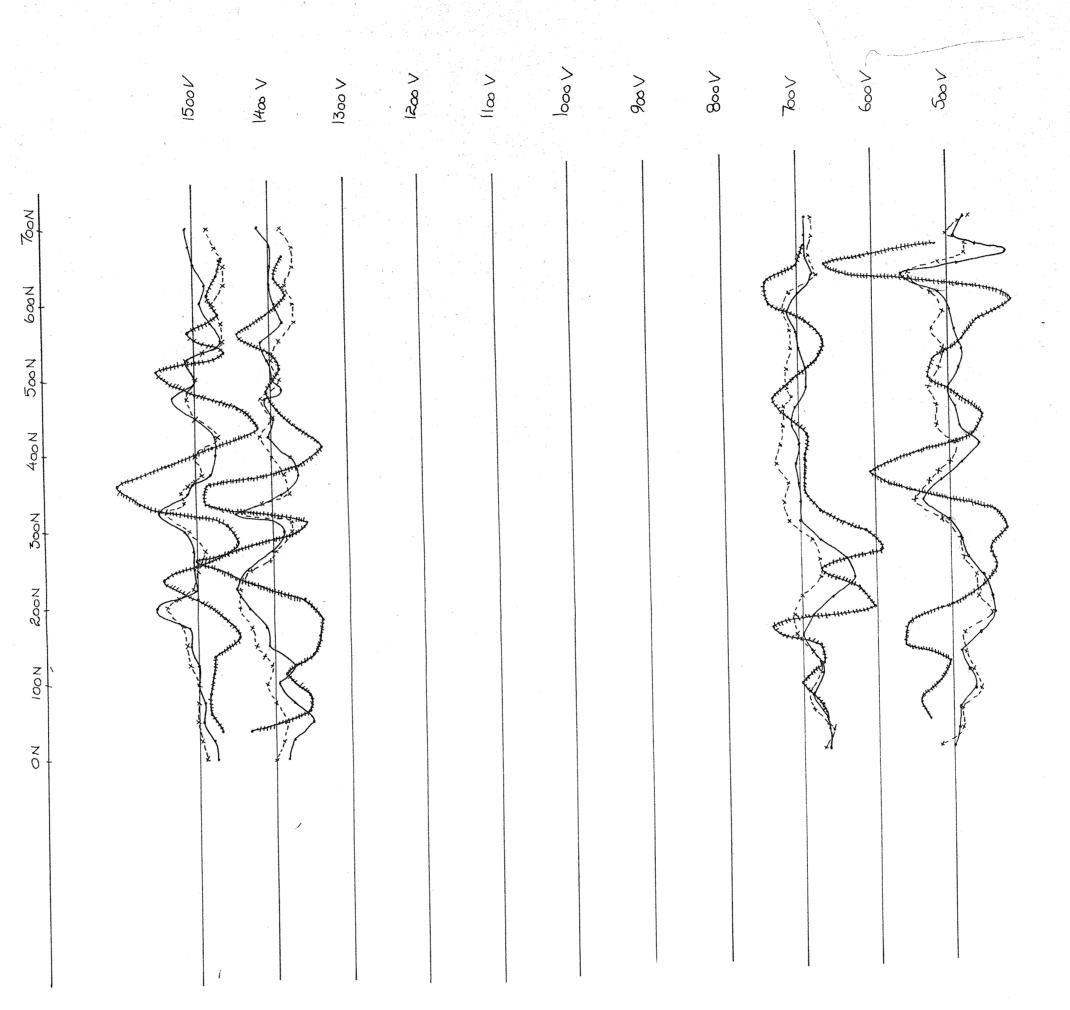
The following table gives a general view of the VLF-conductors.

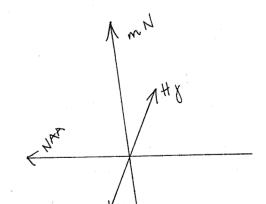
Profile	N-S coordinate	Dip	Depth	Remarks			
500 W	250-300 N	slight E	narrow	bad cond., corr. with turam anom.			
	225	slight E	rel. narrow	11 11 11 11 11			
	450-500	flat	rel. deep	bad cond.			
	600-650	slight E	narrow	good cond,, should be further exam.			
700 W	75-100	flat	rel. narrow	bad cond.			
	250	rel. steep	n arrow	50 metres W of turam anom.			
	575	flat	narrow	corr. with turam anom.			
1400 W	1400 W 75		narrow	bad cond.			
	150	rel. steep	narcow	corr. with turam anom.			
	200-250	steep	narrow				
	300	very steep	narrow	corr. with turam anom.			
	600	flat	rel. narrow	и и и			
1500 W	150	flat	narrow	п п п			
	200	rel. steep	narrow	50 m W of turam anom.			
	300	steep		25 m E of turam anom.			
	450-500	rel. steep	narrow	corr. with two turam anom.			

4. Conclusion

The VLF-measurements gave several anomalies. These generally have a good correlation with the old turam anomalies.

As the geological mapping gave no explanation to the anomalies, further investigations are recommended. It is necessary with a more detailed geological mapping, and geophysical metods will be discussed.





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DRUGGUVATNET	TE-anomali map (Insurance autom)	and merm frazer curves. Station NAA		Orkia industrier 7.5	200	C. It - Orda Venture	
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