



Bergvesenet

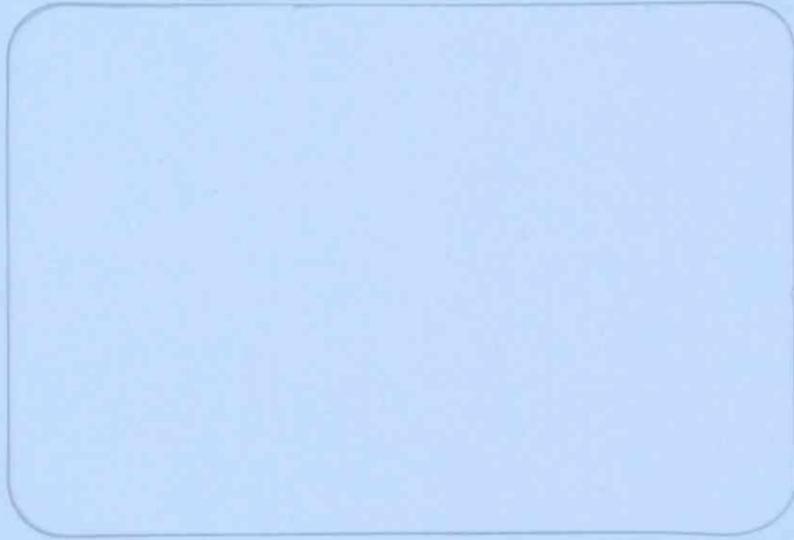
Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 1953	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering
Kommer fra ..arkiv	Ekstern rapport nr LV 4	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel VLF magnetometer-measurements in the Bustadvann area				
Forfatter Carlsen, Kjell B.		Dato 30.12 1981	Bedrift Orkla Industrier A/S	
Kommune Melhus	Fylke Sør-Trøndelag	Bergdistrikt Trondheimske	1: 50 000 kartblad 15212	1: 250 000 kartblad
Fagområde Geofysikk	Dokument type		Forekomster Bustadvann-området	
Råstofftype Malm/metall	Emneord			
Sammendrag				

BV 1953

KB
Arkiv
150



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GULF - ORKLA

LØKKEN VENTURE

REPORT NO.: L.V. 4

DATE: 30.12.1981

TITLE:

VLF magnetometer -
measurements in the
Bustadvann area.

ORKLA INDUSTRIER A.S.

MINING SECTION, EXPLORATION

Report no: L.V.(Løkken Venture) 4	Date: 30.12.1981
Title: VLF and magnetometer - measurements in the Bustadvann area	
Prepared by: Kjell B. Carlsen	Areas name: Bustadmarka
Map no., name: 1521 II, Høllonda	Coordinates (UTM): 7001,5 - 7002,5, 536,5 - 537,5
Field work period(s): July, august 1981	Pages: 2 Map enclosures: 3
<p>Summary (purpose, execution, results):</p> <p>As a supplement to geological mapping in the Bustadvann area VLF- and magnetometer-measurements were carried out. This have shown two weak conductors which are not so very interesting. Further geophysical measurements are at the moment not recommended.</p>	
Key words: VLF and magnetometer measurements.	
Project initiated (date): June 1981	Report finished (date): 30.12.1981

1. INTRODUCTION

The Bustadvann area have been partly geological mapped in 1981. In connection with this VLF- and magnetometer measurements are done.

The objective of the geophysical program was to examine this area with reference to conductors which might be seen by the mapping. Unfortunately there are big power line going through the area from SW - NE. This interrupts the measurements and have also caused some noise. Of this reason there are not maked any Frazer-contouring map.

Data: Profile direction: N - S
Profile intervals: 25 meters
Measurement intervals 25 meters
VLF-station: NAA - 17,8 k Hz
Measurement area: 1,3 sq km

2. RESULTS - INTERPRETATION

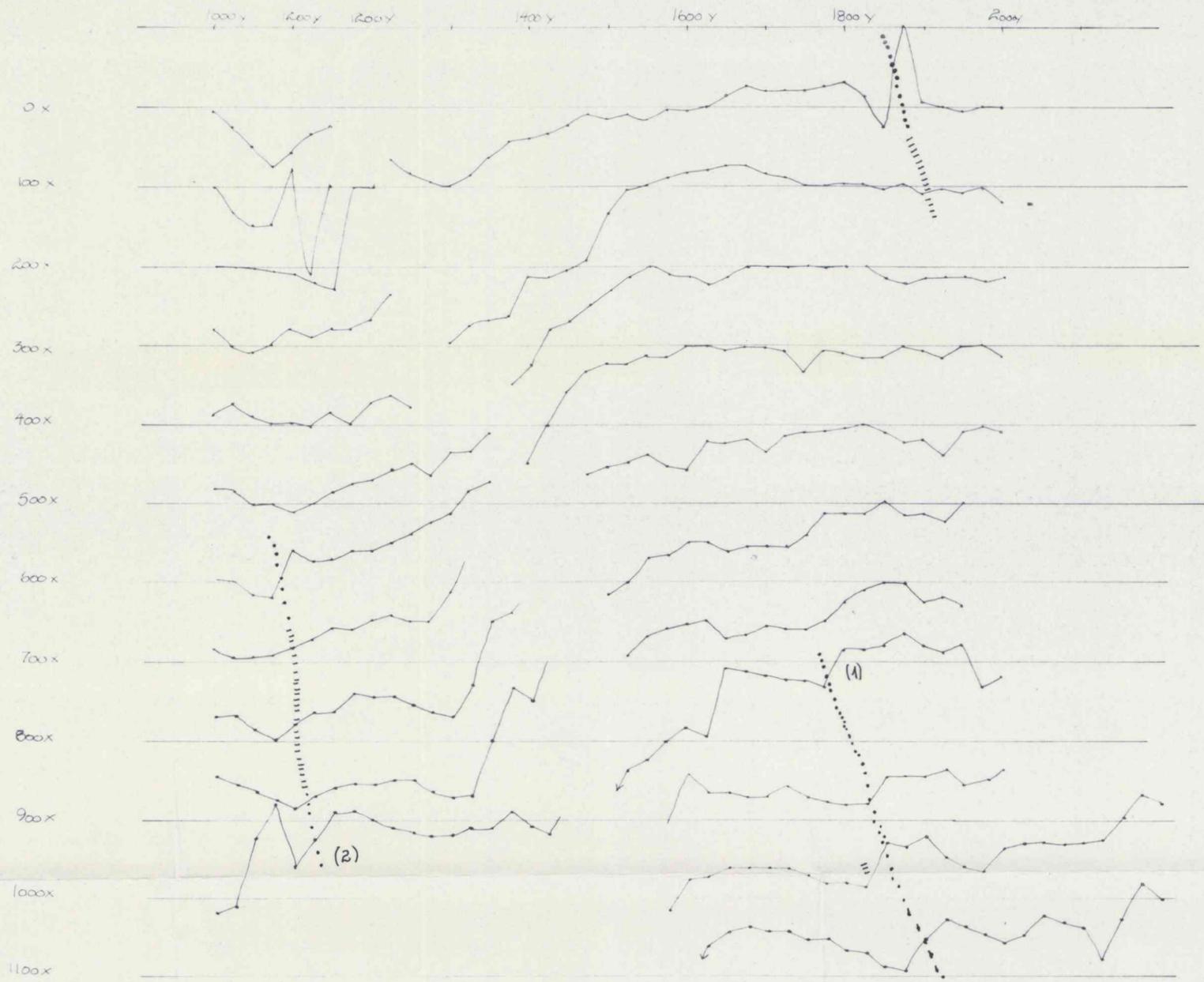
The possible VLF-anomalies are indicated on the dip angle map. (enclosure 1) There are just two distinct anomalies in the area. The mapping in the area are not finished, but give no explanation to this anomalies. "Vasskis"/chert horizons are known from -areas nearby the measurement area and could be a possible explanation also for this anomalies.

Both of the anomalies seems to be narrow. Anomali no.(1) is dipping slight against S - SE, while anomali no (2) is rather steep.

The VLF-anomali no.1 corresponds to a relatively high magnetic field. This might indicate a "Vasskis"/chert- horizon. Due to wrong measurement procedure there are a lot of noise in the magnetic measurements. (enclosure 3)

3. CONCLUSIONS

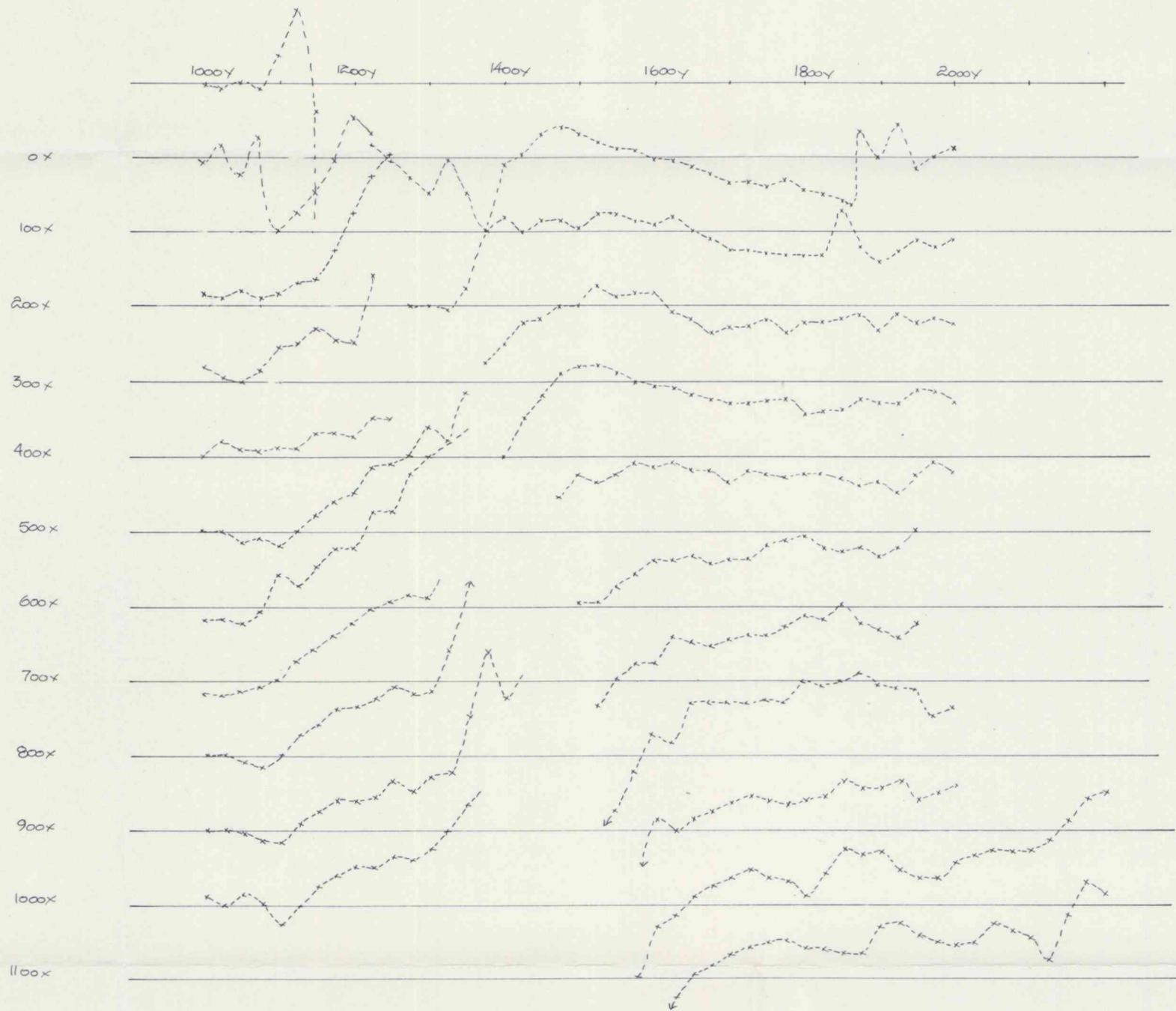
The geophysical results have indicated just two relatively weak anomalies in the area. So far the mapping haven't shown other interesting traces of mineralisation. It is necessary to finish the mapping. Further VLF or other geophysical measurements are not recommended unless new evidence for mineralisation in the area are found.



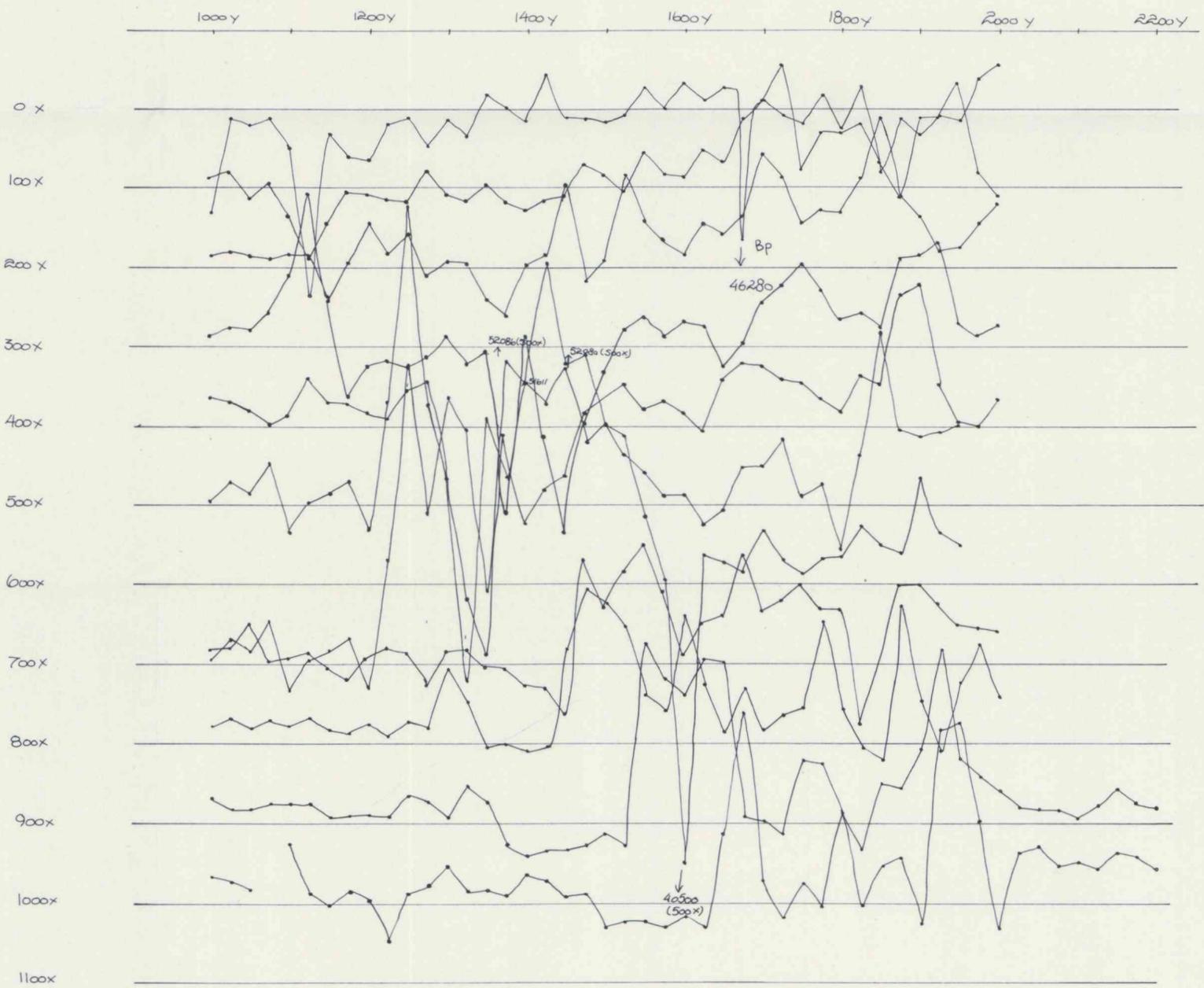
INTERPRETATION OF VLF-ANOMALIES:

- STRONG
- WEAK
- ||||| VERY WEAK

BUSTADMARKA	Scale:	Draw	KL
VLF-anomali map (instr Paulsen)	1:5000	Trac	AM
Dip angle station NAA			Gr, NBC
Orkla Industrier A.s	No: Gf I G4		
7332 Løkken Verk	ENCLOSURE NO. 1		
Gulf-Orkla Venture	REPORT L.V. 4		
	DATE: SEPT 81		



BUSTADMARKA VLF-anomali map (instr. Paulsen) Imaginary component station NAA	Scale:	Draw:	KL
	1:5000	Trac:	AM
Orkla Industrier A.s 7332 Løkken Verk Gulf - Orkla Venture	No: Gf I Cs		
	REPORT L.V. 4 ENCLOSURE NO. 2		
	DATE: SEPT 81		



BUSTADMARKA Total magnetic field map (instr. Scintrex MP2) 0=50.600 γ	Scale:	Draw.	KL
	1:5000	Trac.	AM
Orkla Industrier A.s 7332 Løkken Verk Gulf-Orkla Venture	No. GF J6		
	REPORT L.V. 4		
	ENCLOSURE NO. 3		
DATE: SEPT 81			