



# Bergvesenet

Postboks 3021, N-7441 Trondheim

## Rapportarkivet

Innlegging av nye rapporter ved: Peter

|                                                                                                                                                                                                                                                                                           |                                   |                          |                                                                      |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|----------------------------------------------------------------------|------------------------------------|
| Bergvesenet rapport nr<br><b>5872</b>                                                                                                                                                                                                                                                     | Intern Journal nr<br>Kasse nr. 48 | Internt arkiv nr         | Rapport lokalisering                                                 | Gradering                          |
| Kommer fra ..arkiv                                                                                                                                                                                                                                                                        | Ekstern rapport nr<br>NGU BA 2141 | Oversendt fra            | Fortrolig pga                                                        | Fortrolig fra dato:                |
| Tittel<br>The Ripperfjord Copper Ore deposits Finnmark Norway                                                                                                                                                                                                                             |                                   |                          |                                                                      |                                    |
| Forfatter<br>Smith, H. H.                                                                                                                                                                                                                                                                 |                                   | Dato    År<br>14.04 1939 | Bedrift (oppdragsgiver og/eller oppdragstaker)                       |                                    |
| Kommune<br>Kvalsund                                                                                                                                                                                                                                                                       | Fylke<br>Finnmark                 | Bergdistrikt             | 1: 50 000 kartblad<br>19351                                          | 1: 250 000 kartblad<br>Honningsvåg |
| Fagområde<br>Geologi                                                                                                                                                                                                                                                                      | Dokument type                     |                          | Forekomster (forekomst, gruvefelt, undersøkelsesfelt)<br>Repparfjord |                                    |
| Råstofgruppe<br>Malm/metall                                                                                                                                                                                                                                                               | Råstofftype<br>Cu, Au, Ag         |                          |                                                                      |                                    |
| Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse<br>Rapporten gir opplysninger om forekomsten og om de undersøkelsesarbeider som er gjennomført på den. Den gir også en kortfattet historikk over feltet. Rapporten er en forholdsvis dårlig kopi av en rapport fra Bergarkivet. |                                   |                          |                                                                      |                                    |

H. H. Smith 1957

Norges geologiske Undersøkelse

Berggrunn:

Rapport nr.: 2/41

## The Ripperfjord Copper Ore

### Deposits Finnmark Norway.

Questions asked by purchaser

answered by seller.

1.) Is the mine at work ?

No.

2.) How long did the exploitation go on ?

about 10 years during the years.

The exploration work started in the summer 1903 by the Norske Fabrikkebolaget and commenced seriously in May 1904 with 20 men and continued then. 200 tons copper ore were produced and carted down to the sea, where 80 tons of 10% - 15% Cu were sorted and exported. 100 tons dressing ore were stored at the mines to trial work. In 1905 work is continued with about 40 men, but no results given. Development work is going on in 1906 with 10-20 men and some ore produced mainly to trials of methods in utilization of the ore. No decision is yet made as to this. Work is said to have continued in 1907, but no details are given. Another company A/S Skandia Kobberværk has now at the end of this year got an option of the mines. Extensive developing work in 1908 is reported to have been carried out by them and they sent ore abroad to concentration-plants in order to find the most suitable process in treating it. The result was, that the com-

## 2. The Rippertjord Copper Ore Deposits.

pany abandoned the whole affair.

Insignificant blasting is done in 1909 to obtain samples to make experiments of the best methods in the treatment of the ore. Nothing is mentioned during the following years 1910 and 1911, but in 1912 there is reported of an English syndicate that is carrying out developing work. The deposits belong still to the Nordiske Grufaktiebolaget in Östersund, Sweden.

This Swedish company is in 1913 under what is called frist-"suspension" from the Norwegian state. This means the company is free from working the mines during 1 year and 6 weeks from that date the frist is signed. During the years 1914 and 1915 there is no work and 1916 they have got the above list. From 1917 to 1937 there are no informations at all, but in 1939 there is only a short notice saying-no work. All these informations are extracted from Norges Officielle Statistik, published by Det Statistiske Centralbyrå, Oslo.

3.) Until what a year was it worked there ?

From the above under Nr.2 it will be seen the mine exploration work lasted till 1909 and a short time in 1912 by that English syndicate.

4.) How much ore and how much copper was stated ?

Quantity.

There is a report in the year 1908 saying the known total ore area at the surface is 11000 m<sup>2</sup> with 1,35% Cu or 16000 m with 1,6% Cu. Figures of depth of the ore body is not given, as one can meet the ore at 50 metres and at less than that one. The reason here-to is that one has to deal with some richer very irregular impregnations of copper ore in a big poor party, and that these

### 3. The Ripperrfjord Copper Ore Deposits

Impregnations are specially enriched at the surface.

Another report from 1913 says that work has exposed an ore area of over 190,475 square feet containing 1,72% Cu, which will furnish over 1,300,000 tons of ore, assuming that the ore continues in depth without change to the lowest present ore exposures in the mine.

5.) Where did the product go to ?

Unknown.

6.) Will the whole mine be handed over or only a part of the shares?

The purchaser will get the whole mine and almost all the shares of the company's stock, this later being subject to negotiations and without importance.

7.) Informations as to railway or shipping communications:

Short aerial ropeline 1500 - 1800 m. will bring the mine output down to Ripperrfjord and supplies up to the mine. There is in close proximity deep harbour, ice free all the year in Ripperrfjord.

8.) Please state an exact analysis of the found ores.

The cupriferous mineral in the fissure and contact veins is almost exclusively chalcopyrite and in the quartz-sandstone lode the richer copper sulphide minerals are bornite, chalcocite predominating. Analytical results from typical samples of each of these ore occurrences illustrate this:

|        | Fissure vein. | Contact vein.    | Quartz-Sandstone Lode |                       |
|--------|---------------|------------------|-----------------------|-----------------------|
| Silica | 8.30 %        | 15.68 %          | 75.81 %               |                       |
| Lime   | 25.49 %       | 35.20 %          | nil                   |                       |
| Copper | 6.26 %        | 3.00 %           | 1.95 %                | $\frac{1}{2} = 31.19$ |
| Gold   | 0.106 oz. (3) | 0.064 oz. (1.99) | 0.032 oz. (1.0 gr)    |                       |
| Silver | 2.13 oz. (6)  | 1.13 oz. (36.7)  | 1.23 oz. (40.0 gr)    |                       |

9.) By request there is enclosed: Law concerning mine exploitation of 14 July 1842 with laws of alteration and addition 24 September 1851, 28 September 1857, 22 May 1902, 9 May 1903, 11 March 1905, 13

2. Aug. 1912

Ag 0.2 Au  
Ag 0.4 Au  
0.5 % Ag

~ 0.5 Au  
~ 4.5 Ag

0.4 Au  
16.0 Ag

81.6 %  
0.4 %  
82.0 %

#### 4. The Ripparfjord Copper Ore Deposits

June 1922 and 22 May 1925 and also law dealing with the right to gather gold etc. of 17 June 1860 and law governing ore outcroppings encountered within a section of Northern Trondhjem district of 31 May 1918. Printed Oslo 1923.

Law concerning the acquisition of waterfalls, mines and other immovable property of 14 December 1917. With laws of alteration and addition of 7 June 1925. Printed Oslo 1937.

Oslo 14. April 1939

W. H. Smith.

incl. two last cited.