

Bergvesenet

Rapportarkiyet

Postboks 3021, 7002 Trondheim				napportarkivet					
Bergvesenet rapport nr BV 1184	Intern Journal nr		Internt arkiv nr		10000000	Rapport lokalisering Trondheim	Gradering Åpen		
Kommer fraarkiv USB	1	Ekstern rapport nr BA-rapport 39		Oversendt fra		Fortrolig pga	Fortrolig fra dato:		
Tittel Report on the mines of Konnerud									
Forfatter L. Sturbelle				Dato Bedrift 02.12 1918					
Kommune Drammen	Fylke Busker	rud	Bergdistrikt Østlandske			50 000 kartblad	1: 250 000 kartblad		
Fagområde Økonomi Drift		Dokument ty	rpe	Foreko Konner		er Gruber			
Råstofftype Malm/metall		Emneord Cu Pb Zn							
Sammendrag Rapporten gir en kort beskrivelse av forekomsten og driften og en kalkulasjon angående nødvendig investering av ny kapital.									

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Stubelle:

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ir this promue, you are not enliged to announced

Berga Livet

Norges Geologiske Undersør

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Report.

on the mines of Konnerud.

apot the fushion in an alastric furnace.

1. Situation. The mines of Konnerud are situated on a hill of 350 meters height, to the south of the Drammen River and 5 kilo-meters in birds-eye view from the city of Drammen, that is an important port for steamers of any tonnage.

2. Geology. The couch is a contact formation, in the calcareous metamorphic silurians. The mineral veins have a direction N-S, some also E-WW. Veins of diabase cross the former in a direction N-S.

tion, and the declination varies from vertical to horisontal, but these veins have mostly a declination of 25 - 30 degrees on the horisontal. Numberous couches are visible.

3. History. The mines has been explorated by the ancients in the 18th century for rich argentiferous lead. From 1866 to 1872 it has been explorated by Englishmen for zino, and a Belgian concern has studied it up from 1905 to 1913. This concern, which all the times has had money difficulties, has stopped the work for the same reason.

4. Mineral. The mineral is mixed. It contains blende and galens, and pyrites of copper, but is exempted for iron pyrites. The gangue is composed of calcareous ore, grenades and epidote.

electro-metallical this report I cannot analyse in details the different couches, but after the calculation undertaken with any exactitude desirable, I can say that more than 3000.000 tons of mineral are visible, at the same time much more than this quantity is probable.

The details of this ovaluation are at the disposal of any interested.

b. Lavatory and triage
c. PepairingTheomineral one can reckon with gives the analysis:-

Vine esterial

Several Znidings 12%

Pese of rPbls 2%

Divers Cu -,5%

Ag 60 gr/ton

Bi 1 kg/ton.

Norges Geologiske Undersokelse Bergarkivet · Kdos

1. Situ

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The best means to arrive at all the elements in this mineral, so far as the mine is in Norway, is to undertake on the spot the fushion in an electric furnace.

In this manner, you are not obliged to concentrate the mineral to 40 % of zinc or more, as it is neccessary by the Belgian or rhenane method. Further the lead is retained entirely, either in the destilled zinc, or in the bottom of the bowl. The bismuth and the silver are dissolved in the latter, at the same time the copper rests in the scoria or in the ore. Consequently, by a subsequent refinement of the lead in an electrolytic way, you will find all the bismuth, all the silver and the zinc. The copper in form of ore may be sold to a Norwegian copper refinery, per instance Røros.

is simplified, as you are not obliged to separate the different elements, and that the loss will be minimal. According to experiments undertakens there is no difficulty in consentrating the zinc down to 30 - 35%, whilst the concentration at more than 40 % is difficult. In the first case one can reckon with an output of more than 80 % Zn, whilst in the second case 60 % is the limit.

In the Calculation following I will then assume a partly lavation with the only prospect of washing our a part of the gangue, whilst the separation of the metals is undertaken in an electro-metallurgic way.

5. Necessary capital.

7.1	а.	Burchase, cash Shares Royalty Redemption	170.000 "		trilled ton
	h	Lavatory and triage	Dully benefits	ntio.	210.000
	D.	Lavacory and triage			210.000
17	C.	Repairing shop	. 1017 - 1955 61 -	11	20.000
		MILLIO MICOUTICI			50.000
	e.	Several buildings	2000 10 11 11	**	30.000
	f.	Base of rails	ONE OF THE PERSON	11	200.000
		Divers	ramaea. 2nd neon:	n	70.000
					witter:
			Total	Kq.	930.000

Judger ?

This capital is necessary and sufficient, even at the actual prices which will go down.

6. Exploration expenses and probable benefit. I am obliged to calculate these on basis of the present wages and prices on materials, whilst for the value of the products I reckon: Forthe zinc Kr. 630, for the lead Kr. 450, for the silver Kr. 100/kg., for the bismuth Kr. 12/kg.

I suppose a production of 90 tonstrilled mineral per day, and 300 days per annum. This production is not exaggerated and could be brought to 150 tons.

a.	Extraction			
b.	Triage		Kr.	420,-
c.	Rolling		"	120,-
d.	Examination work	in coll	. "	120,-
e.	11	in garrery	"	60,-
f.	Administration	" shaft	11	40,-
g.	Divers		11	60,-
ň.	Lavatory		11	50,-
_	24 74 7553		11	760,-
		t o tal	Kr.1	.630,-

The value of one day's production is:

25 tons of washed mineral, containing 30 % Zn, 2,9% Pb, 90 gr. Ag. and 1,5 Bi. You will get:

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For the Zinc Kr. 80,-
" " Lead " 9,-
" " Silver " 6,-
" " Bismuth " 12,-

Or Kr.110,- per ton
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Diff. Kr. 1.475,Transport to the raffinery of 26 tons,

by truck, Kr. 15/t..Kr. 390,Packing og 1 ton "50,- Kr. 440,
Daily benefit Kr. 1.035,-

or in round letters Kr. 1.000, - which represents an annual benefit of Kr. 300.000, - or about 32% of the capital.

Drammen. 2nd December 1918. (sign) L. Sturbelle.