

Rapportarkivet

Innlegging av nye rapporter ved: Arve

Inte	rn Journal nr	Interr	nt arkiv nr	Rapport lokalisering	Gradering
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mines i	n Gudbrand	sdalen			
Forfatter Friis, J.p		Dato 29.06	År 5 1907	Bedrift (Oppdragsgiver og/eller oppdragstaker) Adv. Sam Johnson, Kristiania	
Fylke Opplan	d	Bergdistrikt	4		1: 250 000 kartblad Lillehammer
Fagområde Dokument ty Forekomstbeskrivelse		lype	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Rusten Musehullet Sels-gruvene		
låstoffgruppe Råstofftype falm/metall Cu, py, po					
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Malmens kvalitet, gruvenes tilstand og geologiske setting. Plan for videre underskøelser og igangsetting av ny drift, samt transportforhold

JOHNSON Fullusteretsadvokat .

The history of the works.

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The Seals coppermines in Gudbrands de Rapport

dest copperworks in the country. They were started 1624,
that is 20 years before both Kongsberg silverworks and Reros copperworks. People called them the Rustmines. It was
coppery iron— and magnetic pyrite, which was broken out.
The mines were finally vacated in 1784, according to tradition as a consequence of a flood, which carried away the
smeltinghouse and everything belonging to it. And this is
no doubt correct, as one otherwise at the site of the small
smeltinghouse, some 3,5 km. north of the station of Otta,
at the Ulafos, from which it got the necessary waterpower,
after more than 160 years work must have found large mudheaps, whereas one at the old site only finds a few mud-

The quality
of the ore
and the goblogical conditions.

heaps.

Horges Beditagiske Undersakelee Bergarkivet.

The condition of the mines.

The ore lies in strata. It is according to Professor Helland (Occurences of pyrites in Norway, University program), identical with others of our large pyrite-veins. "For, " says Helland, "the ore, the rock and the geological conditions are the same." what agrees with my own observations, up to the fact that I found a large ocurrence of Gabbro, 1 or 2 km. north of the vacated mines. And the occurrences of pyrite in our country all seem to be connected with Bu gabbro, which by reason of this by our geologists has been called an "ore-bringer". The conditions seem to be present for perhaps quite as largo a collection of ore as the Undal, Røros, Foldalen, besides of the mines at Killingdal, where the work recently has been resumed, and at Kjøli in Guldalen. About the work and state of the Sells mines, little or nothing is known. Relations concerning this are wanting, at any rate in our archives. They were worked by Germans, sent up from Denmark. What one knows and may observe is, that there were to large mines, the "Bower mine" and The "Upper mine", also called the "Middle mine", and a smaller one

called the "Muschullet" (The mousehole). This last one is full of water and the two others inaccessible, the day openings being filled by earth. This is especially the case in the Lower mine. In the southern part of the middle mine one can in one place get down to the layer, in which the work has been going on, and which here shows 65 rich export pyrite of the best Kind. It seems really that one here towards the south and West has a vein of ore, which has not been worked. As, however, the remaining stratum only lies a few metros below the surface it is on the other hand possible that it comparatively soon will come up in the day.

The southern, smaller mine the "Musehullet" lies some what higher than and 140 m. south of the Middle mine. It is probably the latest opened, as I suppose most of the pyrite broken out is lying here.

2 men picked out during my presence of but larger pie ces probably about 10 tons in 1+ day.

one may now ask, why was this pyrite left here i was
it because the flood now happened, after which it of course
would be of no use to continue the mining-work, or did the
pyrite perhaps contain too little copper to be smelted if
the
latter is most probable. If the "Musehullet" is drained is
it is therefore probable that one will find strata of pyrit
tes, perhaps deficient in copper, but yet in our time worth
worth working.

Plan for the impostigations.

When one now intends to resume the mining work, and the question is for a plan for the work, one may in the first place without hesilation advise the resuming or continuation of the work in the remaining stratum in the middle mine, and the draining of the "Musehullet" for possible continuation of the work. That the result of this should be any large mining work, is not very probable. The vacated mines must be supposed to have been worked in the largest strata. The question is then, whether these strata are quite emplied or if there are left any quantities of iron-pyrite, which in that time contained to little copper to be

taken out, as was the case in the "Kongensgrube" at Røros.
Only when the railway came here, one could break out great
quantities of export-pyrite of the best kind, which, however, had not been worth smelting.

the old mines from the outside. At the Lower mine one : should probably start by claiming out the day tunnel, for if possible through this to come in far enough to state the conditions of the mine. The middle mine looks lies discouraging; here one might perhaps at a comparatively small expense get through the dayopening for enough to learn for certain, whether there is left anything of consideration in the old mines. If it is right, what people tell, that the mininggang suddenly was called up from one of the mines because one feared a greatslide, one should have reason to be lieve, that the stratum in the mine, in which this happened is not emplied.

The direction, extent, and fall of the two main-mines are not known. I one could approximately state the extent in the day or on the surface, one might by boring with diamand-auger perhaps in the surest and cheapest way learn, whether the veins of pyrite continues beyond the old mines. But about this I dare not yet popose anything. For the present I confine myself to observe, that it probably would be regrettable, if the condition of the old mines should deterrom more extensive investigations than here suggested, as upon the whole the conditions seem to be favourable for a large mining business.

The situation and transport.

The mines are situated but a couple of kilometres (41rect line) east of and about 600 m. above Otta railwaystation. The ground is favourable for the construction of a
repeway.

There is a second-class road from the station and almost up th the mines, which somewhat repoired and lengthened, may be used as a transport-road for Norges Geologiske Underse the mines.

(Signed) J.P. Friis.

Former director of the Reros works.

Bergarkivet.