

Rapportarkivet

Postboks 3021, N-7441 Trondheim

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	Per Sandvik			
ical Examination	of the L. Bleikva	nd Sulphidic Ore Bod	y in Norway	
	Address of the second description	Redrift (Onodragania	r og/aller oppdrægstaken	
Forfatter Backlund, helge			Orkla Grube-aktiebolag	
	29.08 1928			
the contract of the contract o	ergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad	
rdland		19261	Mosjøen	
Dokument type	€ Foreko	mster (forekomst; gruvefelt,	undersøkelsesfeit)	
	Bleikva Bleikva	assli atn	,	
Råstofftype				
Pb,Zn,Ag, Au				
	ke Brdland Dokument type	Per Sandvik Dato År 29.08 1928 Råstofftype Per Sandvik Dato År 29.08 Råstofftype	Dato Ar 29.08 1928 Bedrift (Oppdragsgive Orkla Grube-aktiebo 29.08 1928 Råstofftype Per Sandvik Bleikvand Sulphidic Ore Bod Bedrift (Oppdragsgive Orkla Grube-aktiebo 1: 50 000 kartblad 19261 Forekomster (forekomst; gruvefelt, Bleikvassli Bleikvatn Grønfjelddalen	

Vedlagt feltkartskisse, Avskrift av opprinnelig rapport

Beskriver det mineraliserte området Ved L. Bleikvann med malførende soner i heng av et granittisk flak, hevder at malmen har kontaktmetamorf opprinnelse.. Gir en kort beskrivelse av 3 røskegrøfter i Grønfjelddalen der sinkblende og blyglans opptrer. Også nevnt flyttblokker med sinkbl ved Røssvatnet ved Värntresket.

the geological examination of the L. Bleikvand sulphidic ore body in Norway.

> With a geological field sketch map Helge G. Backlund, Geoloist Professor at the University of Uppsala, Sweden.

I left Sammas on the Kult-lake August 13 in the morning and Storumen, the end station of the Inland Raircad, August 14 for No i Ramen/Norway. The morning of the 15 I spent for visiting the zink- and lead deposit at Grönf jelddalen in Dünderlandsdalen and in the afternoon I went to Eleikwaslien by combined motor- and autoravat. The 16,17,18 I made a geological reconneissance of the greater environs of Eleikwand to the east, taking av overlock of the topografy and morhology even to the swedish Joffall north of Jovatinet, menuchile the 19 and 20 were spent for a closer evanimation of the ore body and its geology. The 14th in the morning I curne and Elemsfore to Storumen the 22nd and finished my trip at Borga the 23rd in the evening.

The orelody is as yet pointed out by v.Post, a contact-metamorphic one, the sulphide ere concentration lying meanly directly on the contact surface of spect of a white alightly micaceous granite, which formshown on the norregian government geological map. Only the contact surface of spect of a white alightly micaceous granite, which formshown on the norregian government geological map. Only the closeness to the somewhat variagated mica shist is made perfect, specially on the wethered surfaces and as the granite contains here and there small quantities of genet nearest to the bottom contact. The dimensions of the body in section with the earth surface seams to have been underestimated as laid bare by v.Post, rather than overestimated, because the survey trenches 1 - 7 have not always met exactly with the hanging and the bottom walls, on the other side the dip - judging from the dip of walls - of the body seems to be irregular and in general smaller than given by v.Post, and the field dip seems to be only left SW.

In the hanging wall the neighbourhood of the granitic sheet is manifested by rising crystallinity of the sicashist. In the hanging and the hottom walls, on the other side the dip - judging from the dip of walls - of the body seems to be irregular and in general smaller than g

gossan formations were observed at n in Tuven and SN hereof near the path from Tustervatnet to Bleikvaslien, perhaps the continuation of the above, but no granite were met with on the hasty reconnaissan-

The northern continuation of the granite sheet from a point where lastly perceived about 600 mENE of the trench No I seems to cross the Kjökkenbugt and the peninsula between it and St. Bleikvand, and the probable continuation of the sheet is seen on the northern shore of this lake on the SE upper slope of the mountain north off the farm Finneset, at se of this name / cf cited map /, where the structure and bright colour of the rock zone indicate a granite, with some rusty zones in the hanging. Perhaps this continuation belongs to the copper and zink deposits, which by the population are uporfet to be closely connected with the mounts Okstinderne and their western slope./ personal communication with the "postopner" at Fineide./

The granite sheet is subjected to some transversal deformations whose nature is difficult to define but which seems to be connected with the eastward overtrusting movements to which the eastwest stike of the phyllite - limestone complex of Varntrasket - Favuvatnet are due and which are stretching as far as to Jofjäll-Tjäter-Gieravando on the swedish side. This complex is somewhere and not seldom caracterised by variegated but not very great deposits of sulphides/ Cf the report by v.Post of Favuvatnet and below/ but the transversal movement seems to have affected only the upper part of the sediment pile, underneath only producing some smaller "Blattverschiebung". Tu this group of movements belongs certainly the diastrophism of the orebody at the trench No 5 and its formation of brecciated ore as also the thickening and bending of the granite sheet in this part of the area. Traces of this movement are also seen somewhere in the underlying formation, and to this group may be counted also the abrupt intersection of the ore lenses in the amphibole rock south of the farm Bleikvasfossen /of below/

ment are also seem somewhere in the underlying formation, and to this group may be counted also the abrupt intersection of the ore lenses in the amphibole rock south of the farm Bleikvasfossen

The bottom formations undermeath the granite sheet consist of a mighty bulk of grayish micashists strongly folded and at different intervals alternated with limestone complexes, which always are associated with entrucive hornblende rocks and graphitoid falum shales. These contain always small quantities of sulphidic impregnations, which in their pert cause rusty zones and limonite wheatherings in the limestone without practical value. Unto the top of the kongsfield 1055 there are no grandtic intrusions of that white colour in these series and therefore no purpose to expect heavier ore concentrations, but south of 0 in Kongsfield and north of R in Rösvasbgt/of cited map/ there seems to be some granitic intrusions of that white colour, which caracterises the Trondhjem series and which are accompanied by limonite gossans in the valley to the south between the farms Svartvasmyren and Rövasbugta.

South of the farms Svartvasmyren and Rövasbugta.

South of the farms Svartvasmyren and Rövasbugta.

South of the farm Bleikvasforsen on the bottom of the little rivulet there are seen in the nearly dense amphibole rook some lenses of sulphidic one in general measuring 0.2 x 2.- meter but one of them was about 2 x 10 meter. The central part of the later one contained big cubes of pyrite in the centrum and a mixture of galena and sphalerite with pyrite in the centrum and a mixture of galena and sphalerite with pyrite in the centrum and a mixture of off office of the lenses belong to the above mentioned transversal dislocations. On the southern wall of the same rivulet some form and small of such a body. Near the bridge of this rivulet some boulders of the same dense pyrrhotine where met with, probably deriving from the last mentioned locality and measuring some 0.3 m². The rusty zone advertised by v.Post SW of the lower waterfall of

The general impression of the ore in the hanging wall of the granite is a good one and in spite of the low angles of d it seems to be persistent. For electrical prospecting in first order the swampy grounds south of the ore, body unto the treshold of the upper waterfall and then the northern continuation of the red cross marked on the map, succeeding secondly farther on the shore of the Kjökkenbugt, ought to be tryed. Afterwards arises the question of crossing the river and continue in the hilly country w and Sw of the upper waterfall. Them a testing experience mya be made on the peninsula between Kjökken-bugten and S. Bleikvand, on its lowest part. The northern shore of the lastnamed lake may not be worked with electric apparatus without previous prospecting and geological work. For further details see the adjoined geological sketch map.

The country north off the lake Favnvatnet is to extended one for giving some conclusive judgements after only a few days runover. There are on several points north of Sivertgaarden and Valen / farms / recent gossan formations and wells rick with rich limonite incrustations, but the general metamorphic stage of the rocks is a lower one and dense and semicristalline limestones are more abundant than in the western field even thanon the official map and with them alunslates, which with their pyrite content ofen produce a disproportional limonitic weathering as to raise great expectations with only small fundament. But it is sure that are veins of dense sphalerite unto 0,5 meter thick and of unknown lenght, which perhaps in spite of the isolated positionwere worth of prospecting, especially when considering the analogic veins in the eastern continuation on the swedish side. There are known on the swedish side to localities of dolomitic limestone with lumps of silverantimen tetraedrites besides the common sulphides. But there are not known any granitic intrusions in these parts of the mountain chain, only smaller intrusions of gabbroid and peridotitic rocks, which knowledge with the experience on the Caledonian range in general does not approve one bodies of greater dime sions in proportion to their isolated position. On the shore of Rösvend at Varnträsket and north off there were encountered several boulders of glassclear quartz matrix abundantly intervoven with rich and dense sphalerite incrustations, and as the glacial transport was directed westward in this part of the mountains, their origin from the Akfjeldet is quite sure.

In the Grönfjelddal area south of the road near the farm Snasen there were visited three prospecting trenches across a couple of ore veins measuring about 2 cm each and consisting of prevailing dense sphalerite in the upper part and of prevailing galena in the lower part. In the first trench there were counted 14 veins of the of the first type and 7 - 10 of the second one, but in the second distant some ten meter in the strike the number of veins were lower and in the third hereto the second type was lacking. The country rock is a soft browngray micashist of low cristallinity, which alternates with a white crystalline limestone and the general dip is southward. No granite or magmatic rock is seen in the immediate surroundings, but farther northward in the hanging there was crossed a considerable white granitic sheet indicated also on the official geologic map. Further southward there is also given on the map a granitic intrusion. Personel communication of Mr. Ro of Mo i Ranen point out that these ore veins are very persistant following the windings of the limestone in the hanging wall for several kilometer, and that there exists other streaks of the same kind partly in analogic position with some small copper content, which may be true. The localities are very interesting as repredenting parallel zones to the famous iron ore bodies haematite of Dunderland, once described by J. H. L. Vogt and whose explotation recently has been taken up anew. But the veins seem not to be enough persistant in the strike and would compel to very extensiv workings and to repeated and persistant testings as to lead to prosperous economies. In every case the localities deserve extensive geologic and prospecting field work before considering the case of practival evaluation.

1 4.5 mts 2.49 Pb 6.91 Zn 80.26 Au 43 oz Ag

2 mts. 5.48 Pb 9.06 Zn 80.26 Au 2.97 oz Ag.

2 S C H I STOSE GRANITE

1.5 mts. 4.26 Pb 7.67 Zn 80.52 Au 3.88 oz Ag.

3

1 mt 6.67 Pb 0.57 Zn 80.39 Au 3.46 Ag.

MICA SCHIST

SCALA 1:1000

2.5 mts. 5.53 Pb 7.41 Zn. 8 0.26 Au. 1.38 02 Ag.

Ny rôsk
1.5 mts. 3.60 Pb 2.58 Zn 8 0.52 Au 1.46 02 Ag

FOLD IN FORMATION

2.5 mts. 4.07 Pb 9.11 Zn 0.52 Au 2.37 oz Ag

BLEIKVATNET LEAD ZINC PROSPECT.

2 mts. 1.77 Pb. 3.05 Zn 0.39 Au 8.02 Ag