



Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr 7380	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
Kommer fra ..arkiv Nordlandske	Ekstern rapport nr BA	Oversendt fra Nordlandske	Fortrolig pga	Fortrolig fra dato:

Tittel

Riofinex Norway: Monthly Report for November 1976

Forfatter

Johnson, P.R.

Dato

År

06.12 1976

Bedrift (Oppdragsgiver og/eller oppdragstaker)

Norsk Hydro A/S

Kommune

Veres

Fylke

Nordland

Bergdistrikt

1: 50 000 kartblad

13314

1: 250 000 kartblad

Narvik

Fagområde

Geologi
Boring

Dokument type

Forekomster (forekomst, gruvefelt, undersøkelsesfelt)

Tårstad

Råstoffgruppe

Malm/metall

Råstofftype

Zn, Py

Sammenheng, innholdsfortegnelse eller innholdsbeskrivelse

Den gjennomførte boringen på Tårstad blir rapportert. Resultatene er ikke oppløftende.

Hullposisjonene blir beskrevet. Mineralisering er sett over flere meter, men består av stringer eller fratursoner fylt med mineralisering. Estimert sinkgehalt er 1-2 % over 1 meter i bh 2a synes være det beste resultatet.

VLF-målinger blir nevnt

Vedlagt kart med snitt gjennom borhull.

RIOFINEX NORWAY

MONTHLY REPORT FOR NOVEMBER 1976

NORDL. BERGM. MØETE	
Arbidsnr.	_____
Jar.	_____
In k.	Salob. _____
Eksp.	_____
Merkn.	_____

From P R Johnson

6th December 1976

To C J Knight
N A Lenning ✓
D H Mackenzie

Ref EN 70

A ABSTRACT

During the month drilling has been carried out at Tårstad. The results are not encouraging.

Plotting of geochemical results from the Fauske area has been completed and a report is being prepared.

B WORK PLANNED FOR NOVEMBER

During November it was planned to:

drill up to 250m in several short holes at Tårstad pyrite-zinc showing.

complete the mapping of results from geochemistry carried out this summer.

make final recommendations for work in Norway next year.

C WORK CARRIED OUT

C.I TÅRSTAD DRILLING

The first two weeks of November were spent at Tårstad supervising the drill programme.

It had been planned to drill 10 short holes at 5 sites - two holes at each site, one inclined 60° west, the other 60° east. The sites were intended to be about 25m off-set east of the presumed line of

strike of mineralisation at Tårstad and the aim of the drilling was to test the strike continuity and true widths and grades of mineralisation.

As it worked out 2 holes were drilled at the sites 2-5 (Fig 2) 1 hole (inclined west) at site 1 and 1 hole (inclined west) at site 6.

Hole DDH 6 was necessary as a duplicate of hole DDH 4a as the latter ran into old workings and so presumably lost some of the better grades. Overall however the target of 250m total drilling was adhered to.

Overburden (moraine) was deeper than expected (up to 7m) As a consequence the pre-glacial erosion surface bit deeper into the gently inclined mineralised strata than expected so that much of the mineralisation was missed in bore holes DDH 3a and 3b.

The drill core was sent to Norsk Hydro's Kjørholt mine for logging and sampling.

I have logged the core and a full report will be presented when the sample assays are available, but it is clear from the logging alone that mineralisation is much less impressive than the material seen on the dumps at Tårstad.

Mineralisation can be found over several metres (eg DDH 6 between 2.5 - 5.6m and 9.8 - 13m) but consists of low grade stringers or fracture infilling. Locally there are thin bands with rich impregnation but the best estimated grades are probably only 1-2% Zn over 1 metre in hole DDH 2a between 7-8m.

Pyrite and sphalerite are the dominant sulphide minerals. Occasionally pyrrhotite can be found.

A strong stratigraphic control can be seen (Fig 3) with mineralisation most common in thin bedded to laminated dark grey fine grained relatively impure marbles structurally overlying a pale coloured, coarse grained relatively pure marble containing up to two amphibolite and amphibolitic schist bands. The way-up is not in fact known, but the occurrence of mineralisation above a presumably volcanic horizon suggests right-way-up.

The dark laminated marbles are considered to represent metamorphosed inter-tidal sediments while the pale coarser grained marbles may represent metamorphosed clean micrite.

C.II VLF SURVEY AT TÅRSTAD.

While supervising the Tårstad drilling I carried out a VLF survey in the area. The results have already been reported. They were inconclusive because power and telephone cables cross the area and create false anomalies.

C.III GEOCHEMISTRY

During the latter part of the month maps of the geochemical results of sampling in the Fauske region have been completed. A report is in course of preparation.

C.IV EXAMINATION OF NGU'S MOSBERGVIK DRILL CORE.

During the month I visited NGU (Trondheim) to examine drill core from Mosbergvik. It will be recalled that Mosbergvik is the Pb-Zn showing a few kilometres west of ground claimed by Norsk Hydro/RioFinEx at Sagelvvatn.

I saw 3 cores from work carried out by NGU in 1961 and several from their more recent work in 1975 and 1976. NGU hopes to obtain the drill core from Bleikvassli's work in 1965-66 (supervised by Beundermann).

The Mosbergvik drill cores are slightly different from the cores obtained by Norsk Hydro/RioFinEx from our drilling west of Sagelvvatn earlier this year, in as much as the host rock is slightly darker, less well laminated and with fewer ex-evaporite nodules. Cores east of Mosbergvik intersect largely calcitic marble instead of dolomite and dolomitic marble as at Mosbergvik and further west. Thus a profile west to east from the area we drilled west of Sagelvvatn, through Mosbergvik to the east shows a facies change from supra-tidal laminated, evaporitic stromatolitic dolomites through slightly deeper water darker dolomites into inter- and infra-tidal limestones.

KEY TO SECTIONS AND PROFILE THROUGH
TÅRSTAD DRILL HOLES.



Overburden (moraine)



Dark grey (streaky) fine to coarse grained thin bedded to laminated impure marble. Usually pyritic. Shows ?planar stromatolites, ex-evaporite nodules and channelling.



Dolomitic version of above



Medium to coarse grained relatively pure pale grey marble with indistinct to well developed thin beds and laminae rich in phlogopite. Locally rich in fuchsite and biotite. Locally pink/green coloured.



Fine to medium grained pale grey dolomite and dolomitic marble. Indistinctly thin bedded or laminated. Shows ?silicified pellets and birds eye texture.



Medium grained calcareous amphibolite



Biotite/fuchsite/phlogopite rich calcareous schist to very impure marble.



Sphalerite

NORTH-SOUTH PROFILE THROUGH TÅRSTAD DRILL HOLES

