Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

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BV 318	886/79 ØB		Trondheim	**Åpen**
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Østlandske	Sul 223-72-13			

Tittel

Diamond drilling at Vesle Tron nickel showing, Alvdal

Forfatter	Dato	Bedrift
Hovland, Roar	1972	Sulfidmalm A/S

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Alvdal	Hedmark	Østlandske		

Fagområde	Dokument type	Forekomster
Boring		Vesle Tron
Råstofftype	**Emneord**	
Malm/metall	Ni Cu	

Sammendrag

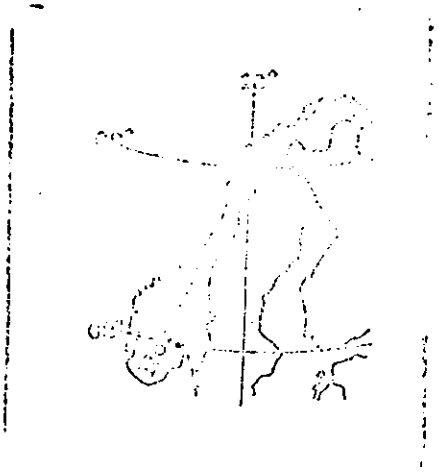
FOR FALCONBRIDGE NIKKELVERK

A/S SULFIDVALM
PROJECT 905-13

DIAMOND DRILLING AT VESLE TRON NI-SØLING - ALVDAL KOMMUNE, HEDMARK FYLKE, NORWAY

1972

R. HOVLAND



Report nr.
23-72-13

1. INTRODUCTION

Vesle Tron Ni-showing is located east of Tronfjell, near Tynset village in central Norway. The prospecting work done here in 1971, including geophysical measurements, geological mapping and soil sampling, resulted in several targets for follow-up work. (report 126-71-13)

2. FOLLOW-UP WORK, DONE IN AUGUST 73

The most promising target, anomaly 15 in report 126-71-13 (map 905-13-71-7) was drilled. Four Winkie - drill holes were drilled with a total length of 103.68 m. The area around the big geochemical anomaly (anomaly 8) was prospected in detail and measured with V.L.F.-EM.

3. Results

The diamond drilling shows that anomaly 15 is caused by a brecciated zone in the gabbro which carries veins and large patches of pyrrhotite and chalcopyrite. The width of the zone seems to vary between 6 and 16 m.

HOLE 1 (19W-20S, 60°N LENGTH 16.00 m)

Sulphide mineralization from 1.0-8.40 m, assaying 0.16% Ni, 0.21% Cu and 2.60% S.

HOLE 2 (19E-28S, 45°N, LENGTH 36.80 m)

This hole indicates the eastern end of the cp, po mineralized breccia-zone. Only small amounts of sulphides were observed (<0.05% Ni, 0.10% Cu, 0.55% S from 14.2-16.0 m).

HOLE 3 (50W-18S, 45°S, LENGTH 24.40 m)

Visible sulphide-mineralization from 13 to 22.0 m. From 15m to 21.0, one has an average of 0.11% Ni, 0.20% Cu and 2.45% S.

HOLE 4 (98W-13S, 45°S, LENGTH 26.48 m)

Sulphide mineralization from 6.70-23.0m of similar kind as in hole 1 and hole 3. This hole is not assayed but the mineralized zone will probably show the same results as hole 1 and hole 3 (0.1% Ni-0.2% Cu).

../2

Near the geochemical anomaly (anomaly 8) the V.L.F.-EM measurements indicate a conductor similar to the drilled one (anomaly 15). The very high soil sample values (max 751 ppm Ni) in one of the profiles is caused by the weathering of dunite boulders coming from the Tronfjell massive.

4. CONCLUSIONS - RECOMMENDATIONS

The drilled anomaly (anomaly 15) shows a mineralized zone with an average width of about 10m, and this zone is followed more than 100m in strike direction with the drill holes. With a density of 3.0 in the mineralized zone, one would get 3000 t of "ore" pr. vertical m, assaying 0.1% Ni and 0.2% Cu. The V.L.F. conductor, near anomaly 8, indicates another possible po, cp mineralization of at least similar size. In this area, one could therefore have possibilities to prove some millions of tons of "ore" assaying 0.1% Ni and 0.2% Cu. With the bad ratio between N and S ~1/20 it would, however, be difficult to get a concentrate assaying more than 1-1.5% Ni. This indicates that only Cu can be regarded as an interesting element in the mineralization.

Even if the "ore""potential" seems promising, the low Cu-grade would make any mining operation uneconomical, and it is therefore recommended that no more work should be done on this property. Our claims can however be maintained.

Drill records and assay results are attached to this report together with a V.L.F.-EM map and drill hole profiles.

Analyse-konto			Ni	Co	Cu	Fe	S
	Borhull No. 1	0 - 1 m	<0.05		<0.05	5.8	0.26
	"	1 - 2 m	0.17		0.19	7.1	1.0
	"	2 - 3 m	0.09		0.16	6.4	1.0
	"	3 - 4 m	0.10		0.19	6.8	1.3
	"	4 - 5 m	0.09		0.12	6.7	0.14
	"	5 - 6 m	0.39		0.48	23.5	9.1
	"	6 - 7 m	0.19		0.35	11.5	3.5
	"	7 - 8 m	0.24		0.22	12.9	4.2
	"	8 - 8.40 m	0.14		0.19	10.3	1.8
	"	12-13 m	0.09		0.13	6.6	0.20
	Borhull No. 2	14.2-15 m	<0.05		0.10	9.2	0.77
	"	15-16 m	<0.05		0.09	5.5	0.28
	Borhull No. 3	0 - 1 m	<0.05		0.07	5.8	<0.1
	"	1 - 2 m	<0.05		0.09	4.4	<0.1
	"	6.6-7 m	<0.05		0.08	5.2	<0.1
	"	7-7.8 m	<0.05		0.08	5.5	<0.1
	"	8.7-9.7 m	<0.05		0.09	5.3	<0.1
	"	9.7-11 m	<0.05		0.09	5.2	0.10
	"	11-12 m	<0.05		0.09	5.0	<0.1
	"	12-13 m	<0.05		0.09	5.4	0.10
	"	13-14 m	<0.05		0.09	5.6	0.36
	"	14-15 m	<0.05		0.10	5.0	0.40
	"	15-16 m	0.13		0.37	12.0	3.2
	"	16-17 m	0.10		0.21	9.2	2.4
	"	17-18 m	0.10		0.16	9.1	2.7
	"	18-19 m	0.15		0.21	11.0	3.7
	"	19-20 m	0.05		0.13	6.8	1.3
	"	20-21 m	0.05		0.12	6.7	1.4

Analyse-konto		Ni	Co	Cu	Fe	S			
	Bornull No. 3 21-22 m	<0.05		0.08	6.7	0.70			
	" " 4 8 - 9 m	<0.05		0.07	5.5	0.10			

T. H

A/S SULFIDMALM

DIAMOND DRILL RECORD

LOCATION: VESLE TRON 19 W = 20 S BEARING 170 DIP: 60° HOLE No: 1 SHEET No: 1

LOGGED BY: R. Høvland STARTED: 7/8 PROPERTY

CASING: 0.0 m FINISHED: 10/8

CORE SIZE: Ax - 32 mm TESTS (CORRECTED):

FROM	TO		DESCRIPTION
0.0	0.80		medium - coarse grained gabbro, fractured with rust on the fractured zones, traces of sulphides
0.80	8.40		brecciated zone, impregnation, veins and large patches of cp and po, some rust in fractured parts of the core
8.40	16.00		fine - medium grained, light gabbro traces of sulphides 12.0 - 13.0 m
			Core Angles
			10.2 m - 45° (feldspar vein)

A/S SULFIDMALM

DIAMOND DRILL RECORD

VESLE - TRON

LOCATION: 19E - 28S BEARING 350° DIP: -45° HOLE No: 2 SHEET No: 1

LOGGED BY: P. Hovland STARTED: 11/8 PROPERTY

CASING: 0.0 m FINISHED: 13/8

CORE SIZE: Ax - 32 mm TESTS (CORRECTED):

FROM	TO		DESCRIPTION
0	5.80		medium - coarse grained gabbro. Plagioclase and hornblende major constituents
5.80	6.00		brecciated zone, no sulphides
6.00	8.80		quartz-sericite schist with some chlorite
8.80	13.00		fine grained, light gabbro, rich in plagioclase
13.00	16.00		brecciated zone, quartzitic matrix with big crystals of plagioclase and bands of chlorite
			14.0 - 16.0 weak mineralization of sulphides
			(po) 1-2 vol %
16.00	25.10		medium-coarse grained gabbro
25.10	27.40		brecciated zone, quartzitic matrix big plagioclase crystals and bands of chlorite very weak sulphide mineraligation (po) <1 vol %
27.40	34.30		light medium grained gabbro
34.30	36.80		quartzite, with some sericite and chlorite
			Core angles
			24.6 - 50° (quartz-feldspar vein)

A/S SULFIDMALM

DIAMOND DRILL RECORD

VESLE TRON

LOCATION: 50W - 18S — BEARING: 170° — DIP: -45° — HOLE No: 3 — SHEET No: 1

LOGGED BY: R. Hovland — STARTED: 21/8 — PROPERTY:

CASING: 0.0m — FINISHED: 24/8

CORE SIZE: AX - 32 mm — TESTS (CORRECTED):

FROM	TO		DESCRIPTION
0.0	9.70		medium - fine grained gabbro. Rust on shears, traces of sulphides 0-2m and 6.5 - 9.7m
9.70	22.20		brecciated zone, large anhedral plagioclase crystals and veins, impregnation and large patches of po and cp. The cp and po mineralization is most visible from 15.0 - 21.0m
22.20	24.40		medium grained, light gabbro
			Core Angles
			14.5m - 70° (feldspar vein)

A/S SULFIDMALM

DIAMOND DRILL RECORD

LOCATION: VESLE TRON 9SW - 13 S BEARING: 170° DIP: 45° HOLE No: 4 SHEET No: 1

LOGGED BY: R. Hovland STARTED: 24/8 PROPERTY

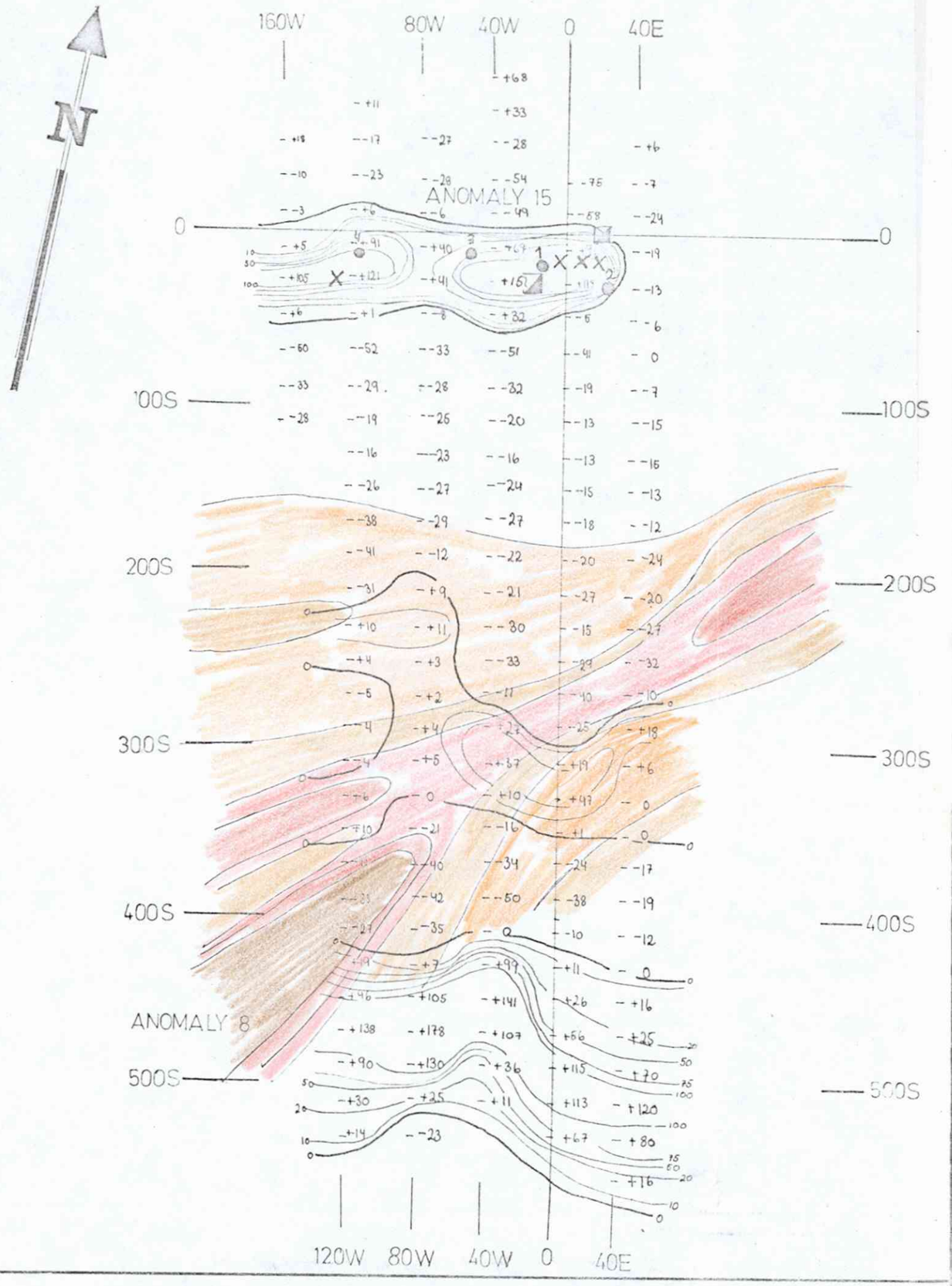
CASING: 0.0m FINISHED: 27/8

CORE SIZE: AX = 32 mm TESTS (CORRECTED):

FROM	TO		DESCRIPTION
0	8.00		medium grained, light gabbro. Plagioclase and hornblende major constituents. Sheared and fractured, rust on shears.
			1.0 - 1.5 } veins and larger grains of
			3.5 - 5.2 } po and cp
			6.0 - 7.1 }
8.00	8.70		medium grained gabbro, very weak sulphide dissemination (po, cp) ~ 1 vol %
8.70	23.0		medium grained light gabbro, varying with brecciated zones. The brecciated zones have a matrix of plagioclase and hornblende and contains large crystals of plagioclase (up to 5 cm). Po and cp occur in veins and larger patches mainly in the brecciated zones.
23.0	26.48		medium grained, light gabbro. More fine grained and plagioclase bearing 24.0 - 26.48

Core Angles

14.5 - 70° } quartz/feldspar veins
15.4 - 75° }



LEGEND:

- Prospect pit
- X Minor blasting
- Diamond drill hole
- 0-10ppm Ni
- 10-30ppm "
- 30-50ppm "
- 50-70ppm "
- 70 100ppm "
- >100ppm Ni
- VLF-EM Fraser contour 0 line
- VLF-EM Fraser contour, (10-25 - 50 - 75 - 100)

Drillholes/V.L.F. anomalies/
Soil anomaly
VESLE TRON Ni-Showing

SCALE 1:2000

OBS.
DRAW. RH 9-73
TRAC. MJ 9-73
CHK. RH 10-73

% SULFIDMALM

MAP NO. 221-72-13-01

MAP SHEET