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Forfatter Wilberg, Rune Røsholt, Bernt	Dato oktober 1998	År	Bedrift (Oppdragsgiver og/eller oppdragstaker) Mindex ASA
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Exploration Report

Bleka Concession

Telemark, South Norway

by
Rune Wilberg and Bernt Røsholt

October, 1998

MINDEX ASA
O. H. Bangs vei 56-58, 1322 Høvik, Norway

Summary for 1998

**By
Rune Wilberg and Bernt Røsholt**

Summary and Conclusions:

Bleka Gold Mine located in Svartdal in the county of Telemark in South Norway was in operation from the early 18-eighties to about 1916 and from 1936 to 1940 when it was closed down due to WW II and lack of diesel fuel. A total of about 165kg of gold was extracted from the mine during its time of operation.

A few reports were published in the period of the operation of the mine and during the last war by the Germans. The Germans studied the mine of strategic reasons for the potential of bismuth metal. Most of the reports are, however, from exploration work and studies carried out during the last 20 years by various companies and institutes. See **Enclosure no 1** list of reports and references. The exploration work has been limited to surface work and some underground studies where it is access to the old mines. In spite of all the exploration work that has been carried out, no core drilling is so far made at the Bleka properties.

Bleka gold mine is a typical vein deposit striking ENE where gold is occurring together with chalcopyrite, pyrite, galena, bismuthinite and magnetite in quartz-ankerite-tourmaline-veins. The average gold content of the extracted ore is calculated at around 30g/t.

Bleka Gold Mine is located in the Bleka Main Vein and gold ore has been extracted over a strike-length at about 200m and depths down to about 40m. The Bleka Main Vein can be followed on surface for more than 1km in several small open casts in quartz vein mineralised with various amounts of pyrite, chalcopyrite and bismuthinite. It is, however, a low gold content along the outcropping of the Bleka Main Vein except one small outcrop where the discovery of the mine was made.

The amphibolite-gabbro wall rock of the main vein was strongly altered with formation of albite, sericite, ankerite and pyrite up to one m into the wall rock in an early phase of hydrothermal activity along prevailing E-W and NNE-SSW-structures. Little gold is found in the altered zone.

In the next phase of hydrothermal activity a moderate alteration of the wall rock took place with formation of quartz, ankerite, tourmaline, chalcopyrite and bismuthinite with or without gold. This phase has more or less followed the same structures as the first phase, and the gold content is also low in the second phase of mineralization.

In the last phase of hydrothermal activity the temperature was low causing little or no alteration of the wall rock. In this phase quartz and gold was deposited with or without magnetite. Magnetite was formed by reaction between the ore-bearing fluids and pyrite from the first phase or pyrite originated in the gabbro. Also in the last phase of hydrothermal activity, minerals were to some extent deposited along the same structures. Some places, however, gold and quartz was deposited outside the original structures.

The field work 1998 was aiming at finding the cause of the magnetic anomalies from the magnetic survey of 1997. Further, it was planned to do a detailed mapping and sampling of possible gold bearing veins found in the concession area. A detailed VLF-survey was also planned in the most interesting areas to see if it was any VLF-response to presumed mineralizations.

Anomalies in soil covered areas was planned to be uncovered by diggings or to be sampled by deep soil sampling.

Magnetic ground survey traced an assumed continuation of the Bleka main vein for almost 1,9km, making the total length of the Main Vein at around 3,0km.

Another six parallel narrow magnetic anomalies sub-parallel to the Bleka M.V. were traced in the south part of the area. The anomalies may be traced for 600 to 1300m in length.

Several new quartz-tourmaline-sulphide-bearing veins were found in the campaign even if the area is well covered by soil. A study of the veins shows that there are three dominating directions of the veins: 20°-40° (200°-220°), 80°-100° (260°-280°) and 170°-190° (350°-10°) respectively. It is the E-W directed veins that are the most anomalous in gold, as well as showing the most frequent occurrence of wall rock alteration.

The general structural picture of the Bleka Main Vein is that a strong shearing parallel to the vein occurs up to five m at each side of the vein. The strongly sheared gabbro is found several places in the Bleka area. Magnetic as well as combined Magnetic/VLF-anomalies and separate VLF-anomalies are often occurring over the said fractured gabbro. Carbonate is deposited along the fracture planes. The gabbro contains often a few per cent of sulphides (pyrite), and it is believed that the pyrite is altered to magnetite by the fluids penetrating the gabbro through the sheared zones. The plant «Blue Anemone» is a good indicator for a high content of calcium in the soil. Blue Anemone is frequently found in the said sheared zones as well as in the vicinity of the altered zones containing carbonates of the Bleka Main Vein. Regarding VLF-anomalies in the area, they may be caused by sulphide mineralizations in veins and/or massive sulphides adjacent to the veins. The current surface is believed to be located above the most important levels of the deposition of the gold. This may be seen at Espelid vein swarm where the gold contents are very low and at Bleka Main Vein towards the East at higher elevations. The Blengsdalen occurrence has the lowest elevation in the Bleka area, and shows some of the highest gold contents.

A drilling proposal at 1800m is worked out to test the gold potential at Bleka Main Vein and its immediate vicinity and potential undiscovered parallel gold bearing veins to the Main Vein with combined Mag-VLF-anomalies.

An additional drilling proposal at 800m is worked out to test possible gold mineralizations just outside the Bleka Central Area at Blengsdalen with two holes (350m) and the Espeli Vein Swarm, one hole (450m).

Contents

	Page
Background	5
Exploration work 1998 with results.	6
Mapping and sampling of quartz-tourmaline-veins.	6
Bleka Main Vein (M.V.)	7
Quartz-Tourmaline-veins in the Bleka area.	8
Structural study of veins.	11
Geophysical survey	12
Magnetic survey.	12
VLF survey.	13
Geochemistry.	14
Hard rock geochemistry.	14
Deep soil sampling.	14
Chemical analysis.	15
Drilling program	16
Planned drill holes inside the Bleka Mine Camp	18
Planned drill holes outside the Bleka Mine Camp	19
Conclusions and recommendations.	20

Enclosures:

1. List of references.
2. Sample list from 1997 by Søren Gamst with chemical analysis and sample list of 1998.
3. Bleka data-base 1997-1998. Sample locations and chemical analysis.
4. Bleka soil sample list with chemical analysis.



Fig no 1
Claim area, Hjartdal and Seljord
Telemark, Norway

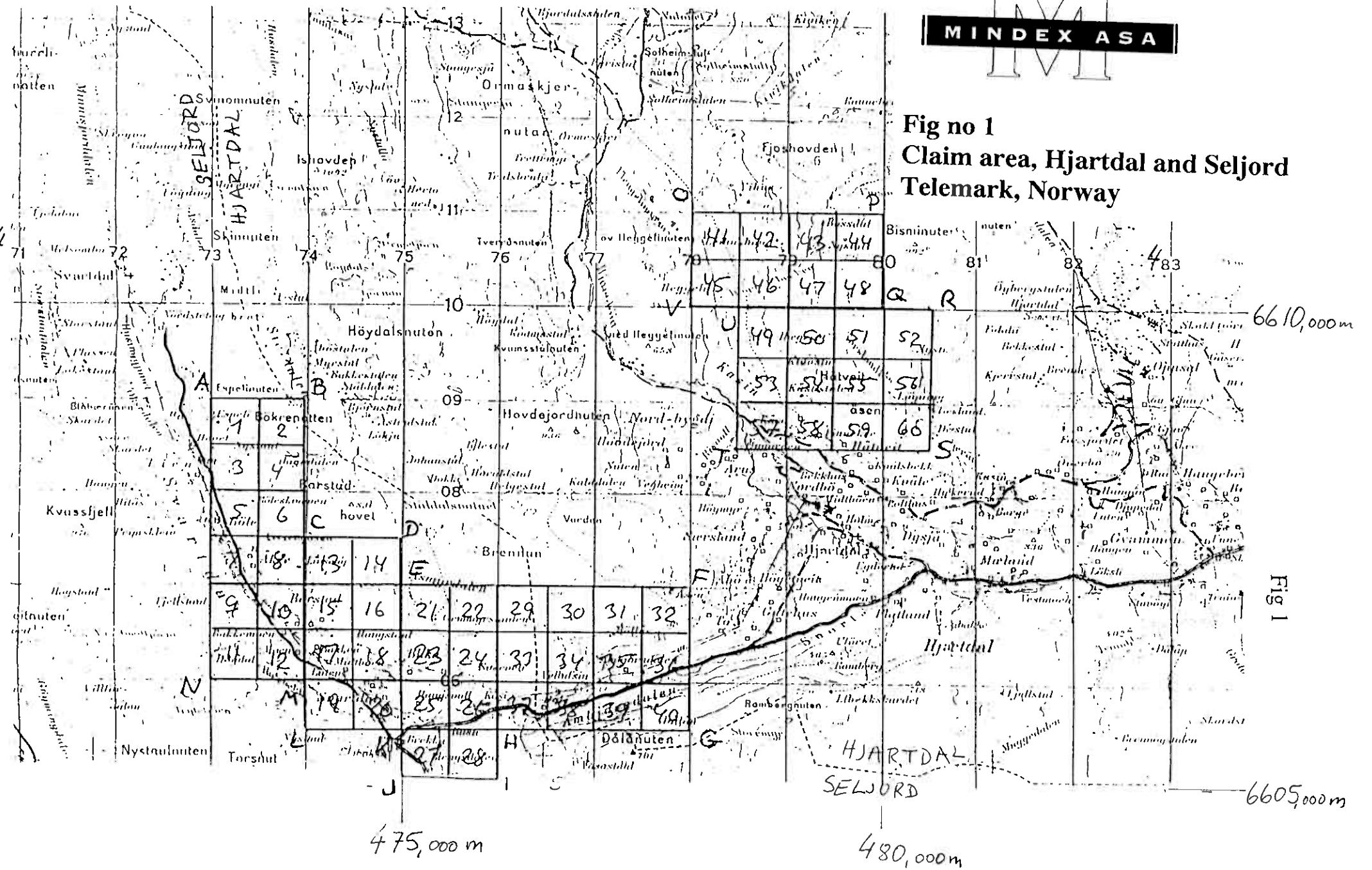


Fig 1

Background.

Bleka Gold Mines were reported found around 1880 and mined until 1916 and from 1936 to 1940. The gold mineralization occur in quartz-ankerite-tourmaline veins associated with bismuthinite, chalcopyrite, galena and pyrite. Bleka Main Vein, which is poorly exposed, has an average thickness of 0.35m and can be followed along strike for about one kilometre. In the vicinity of the Bleka Main Vein several sub-parallel veins with sub economic gold contents are found. The gold bearing veins are hosted in the Bleka amphibolite which is a major meta gabbro sill complex in the lower part of the Seljord Group, Telemark. It is assumed that the volume of the stopes in the extracted part of Bleka Main Vein amounts to about 1800m³. Consequently the average tenor can be calculated at about 36gAu/t, 67gAg/t, 0,55%Bi and 1,78% Cu based on the yielded lifetime production of 165 kg Au, 300 kg Ag, 25t Bi and 80t Cu.

During the last war the reserves at Bleka was evaluated, targeting the strategic bismuth metal potential. (Horvath 1943, Lauer 1943 and Hake 1943 a,b).

In more recent years, systematic stream sediment sampling and regional prospecting by Norsk Hydro AS and Arco Norway AS revealed several gold anomalous areas besides Bleka in the Hjartdal region, and indicating that the gold deposit at Bleka may be part of a more widespread system (Grahl-Madsen 1983; Harpøth & Gregersen 1984). This view is strongly supported and considerably enhanced by detailed studies carried out by research groups of the University of Aarhus since 1987 (e.g. Aghabawa 1988; Larsen 1989; Jensen 1990, 1991; Sørensen 1991; Petersen 1993; Gad 1995 a.o.) and by recent field reconnaissance and a complete revaluation of existing data by Nordic Minerals AS 1996.

In August 1997 Nordic Minerals AS merged with Mindex ASA, and a total of 40 claims covering 10km² in Bleka area (Seljord and Hjartdal) and 20 claims, 5km², in Bisminuten area (Hjartdal). See fig. 1. A limited field program was conducted by Mindex late summer 1997; Gamst & Thomsen 1998; Jensen 1997.

Exploration work carried out through 1997 concluded in additional field work to be done in the season of 1998. A drilling program at 2200m comprising of 12 core-holes from 90 to 450m was planned early 1998. Mindex decided to postpone the drilling program and instead carry out a detailed field survey during the summer of 1998 in order to optimise a successful drilling campaign the following season.

Exploration work carried out summer 1998.

The exploration work of the 1998-season in the Bleka concession area, **Fig 1**, was aiming at collecting information in the central area of the Bleka Main Vein, its surroundings and extension.

The following geo-disciplines were applied for:

- Mapping and sampling of quartz-tourmaline veins with or without sulphides and sampling of altered wall rock.
- Proton magnetometer ground measurements follow up of 1997 measurements with delineation and sampling of anomalies.
- VLF measurements covering most of the Bleka central area.
- Deep soil sampling of some selected and combined anomalies.
- Structural measurements with interpretations of the Bleka veins. Data for this study was collected both in "The Espelid vein swarm area" to the NW and in the Bleka central area. See the chapter "Structural study of veins" and separate report by Patrik Witt-Nilsson.

No follow up work was done in 1998 in the concession area to the Northeast, Bisminuten.

Mapping and sampling of quartz-tourmaline veins.

In the whole concession area, quartz-tourmaline veins may be found in the Bleka amphibolite (meta-gabbro). The area is well covered by soil, however, a little more than 100 veins were located in the 1997 and 1998 season. The registered veins are presented on the enclosed map **fig. 2**. Each located vein is marked on the map with strike/dip and number of analysis.

Enclosure no 2 with sample lists from 97,98 and analysis of 1997 gives specific detailed information of the respective veins. **Enclosure no 3**, "Bleka data-base 1998" shows sample numbers, UTM co-ordinates and chemical analysis.

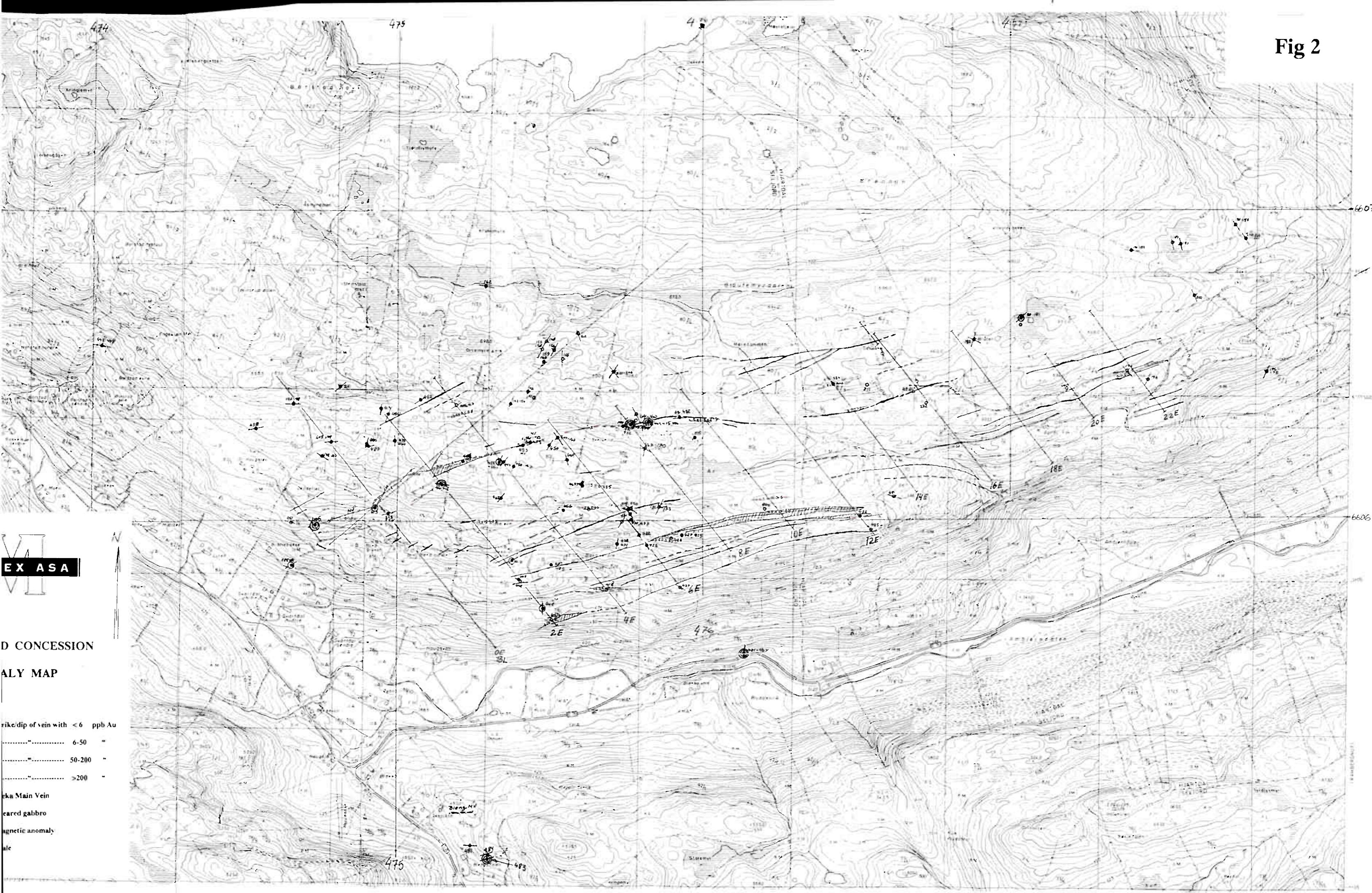
Most of the samples are collected from the veins as "Rock Grab Samples". Because of the difficulty of obtaining enough material from the often narrow veins exposed on smooth surfaces, it is rare to get good "Rock Chip Samples". Sample sizes are from one to two kilos. In most of the locations where alteration could be seen, samples of the wall rock are collected. Some samples from fresh meta-gabbro are also collected.

The description of the veins is presented in two sections:

Bleka Main Vein.

Quartz-Tourmaline veins in The Bleka Area.

Fig 2



Bleka Main Vein. (M.V.)

The Bleka Main Vein has a documented length of 1250m between sample no 405 in the SW and samples no 431,432 in the NE (See map **fig.2**). Further towards the West, the M.V. runs into quartzite, the contact rock of the gabbro. It is only the western part of the M.V. along 180metres from about 90W to 90E that has been exploited from the adits A, B, D and F. Petersen pp9 fig.3 1996. The depth of extraction is only about 40 metres and total extracted tonnage amounts to about 5000 tonnes of ore, which yielded 165kg Au, 300kg Ag, 25t Bi and 80t Cu. In general the Bleka M.V. is poorly exposed, and outcropping sections of the vein with economical grades of gold is in total limited to about 30 metres. Much effort is done to find continuation of the M.V. and more information of its eastern part. The knowledge of the western and extracted part of the vein is regarded as good, so little field work was done in this area except for the structural interpretation. (Witt-Nilsson 1998).

From Mr. Steinar Skjelle, a senior conservation officer in the county of Østfold owning a cabin close to the main entrance of Bleka Mine, Mindex has received valuable information in a number of old maps from the mine enclosed as follows:

- Fig 3.** "Galeries de Bleka" Map by Compagnie Francaise about year 1900.
Scale 1:1000.
- Fig 4.** Map over the Bleka area (1,7x2,0 km) with property owners, 22 marked claims. Map by Compagnie Francaise about year 1900.
Scale 1:2.500.
- Fig 5.** Map over the Bleka area (820x1300m) with property owners, 16 marked claims and mine levels. Map by Compagnie Francaise about year 1900.
Scale 1:1000.
- Fig 6.** Plan and section views of gold smelter furnace. By Compagnie Francaise about year 1900. Scale 1:500 and 1:100.
- Fig 7.** Map over Bleka area (1,4x2,0 km) with property owners, Bleka Main Vein, Barstad Vein, Haugstul Vein and 5 claims. Scale 1:5.000. Map by Dr. A. Metzger, Finland 15/4-1943.
- Fig 8.** Plan map over Bleka Mine area (800x600m) with vein traces at different levels and geology. Scale 1:2.000. By Dr. A. Metzger, Finland 26/1-1943.
- Fig 9.** Sections along strike of the Bleka Main Vein and 5 cross sections with geology and indication of ore. Scale 1:2.000. By Dr. A. Metzger, Finland 27/1-1943.
- Fig 10.** Three-dimensional construction of Bleka Mine area with geology and the Main Vein. Horizontal and vertical scale about 1:3.000. By Dr. A. Metzger, Finland 10/1-1943.

The old maps and sketches adds important information to the knowledge of both the Bleka M.V. and other mineralized veins in the area. Metzger (Figs.7-10) has interpreted/mapped the Bleka M.V. in ore-bearing (Ertz) and barren vein (Gang).

Fig 11, 12,13 and 14 are covering the Bleka M.V. from about 150E to about 870E except the section between 520E and 760E where only one small water filled digging may be found. Detailed information about element contents strike/dip, thickness of vein etc. may be read in **Enclosures no 2 and 3** with reference to each sample no. The gold content of the respective samples may also be read at each figure.

In the surroundings of Sverveli, the area has been and is still partly cultivated as pastures. Old people could tell that some shafts in this area have been backfilled and revegetated . It was not

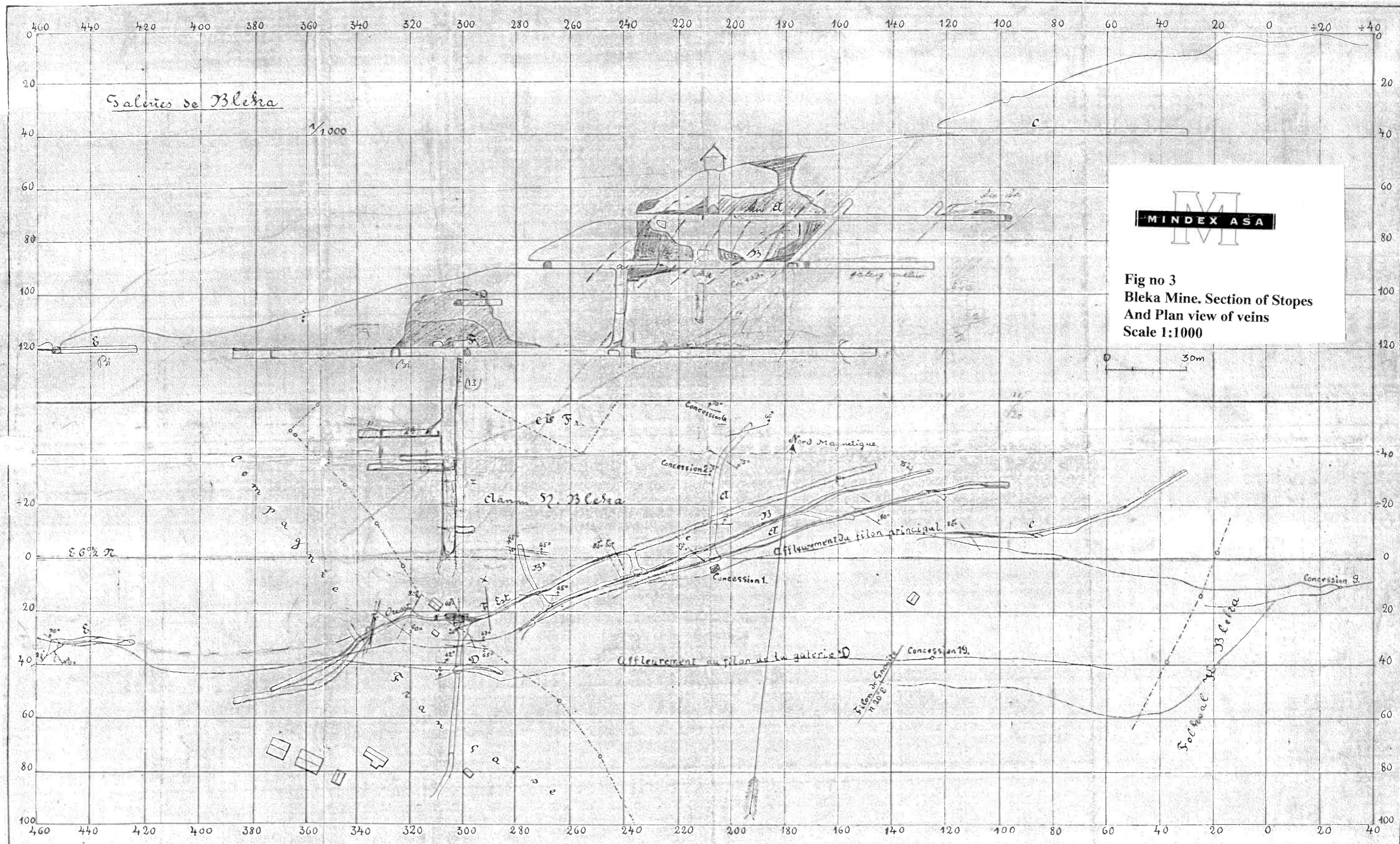
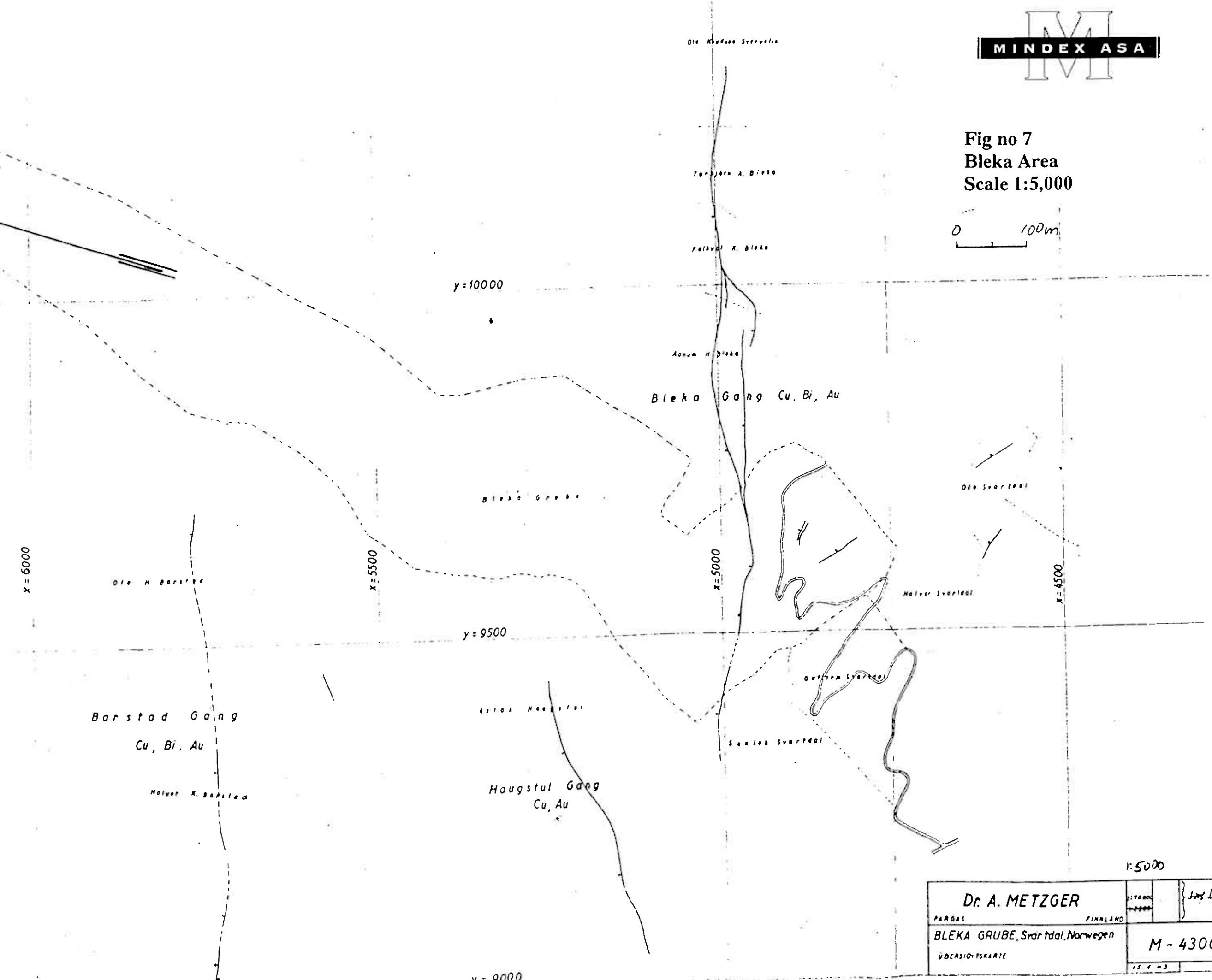




Fig no 7
Bleka Area
Scale 1:5,000

0 100m



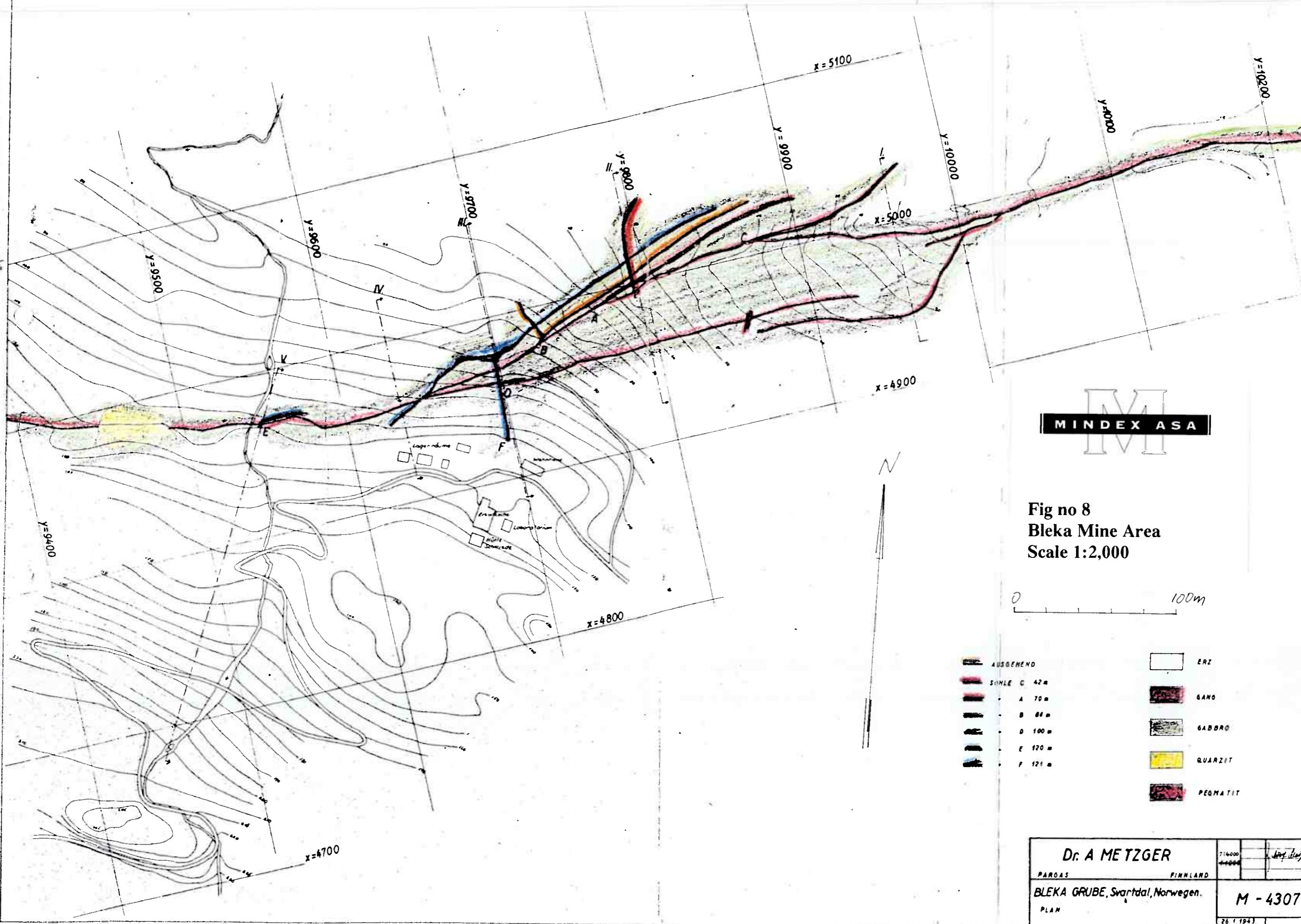


Fig no 8
Bleka Mine Area
Scale 1:2,000

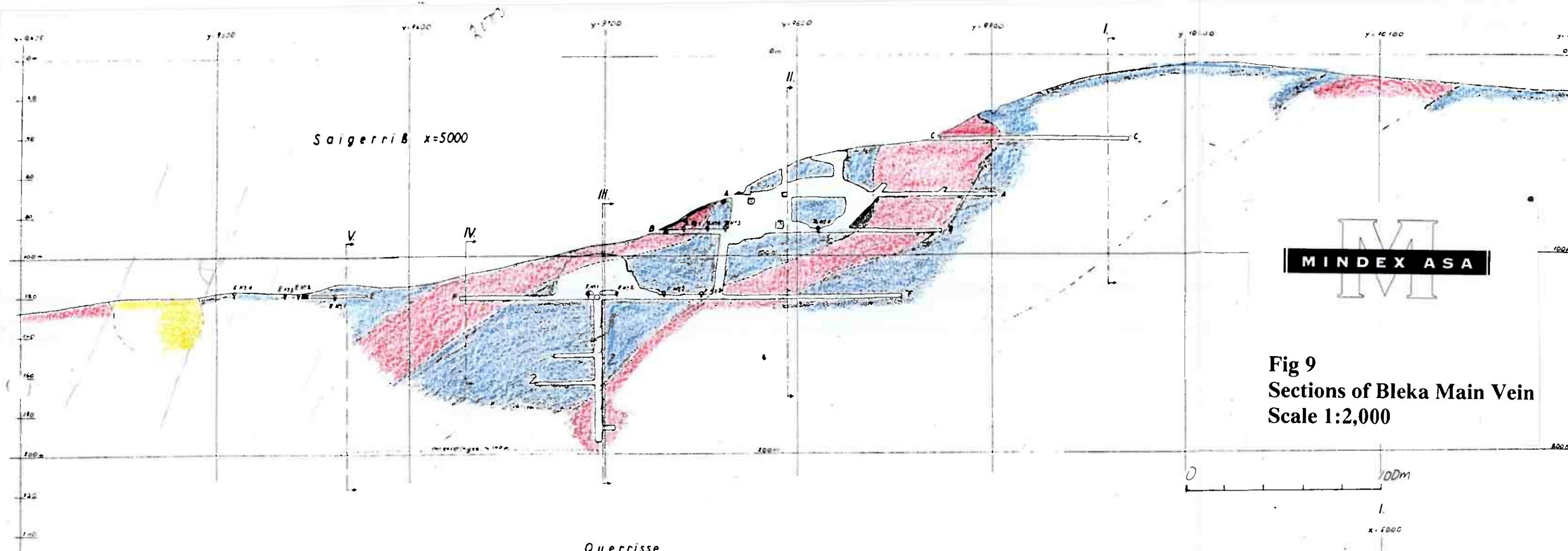
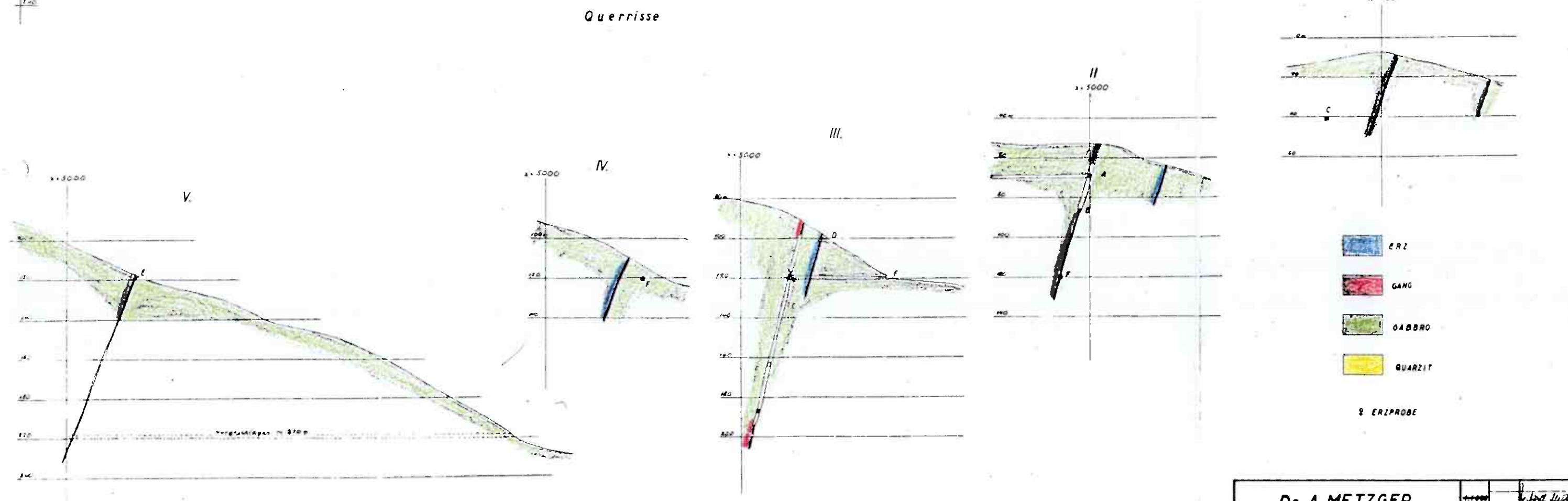


Fig 9
Sections of Bleka Main Vein
Scale 1:2,000



Dr. A. METZGER	1:6000
PÄRSÄS	FINNLAND
BLEKA GRUBE, Svartdal, Norwegen	
RISSE	
M - 4308	
27.1.1943	

Fig 10

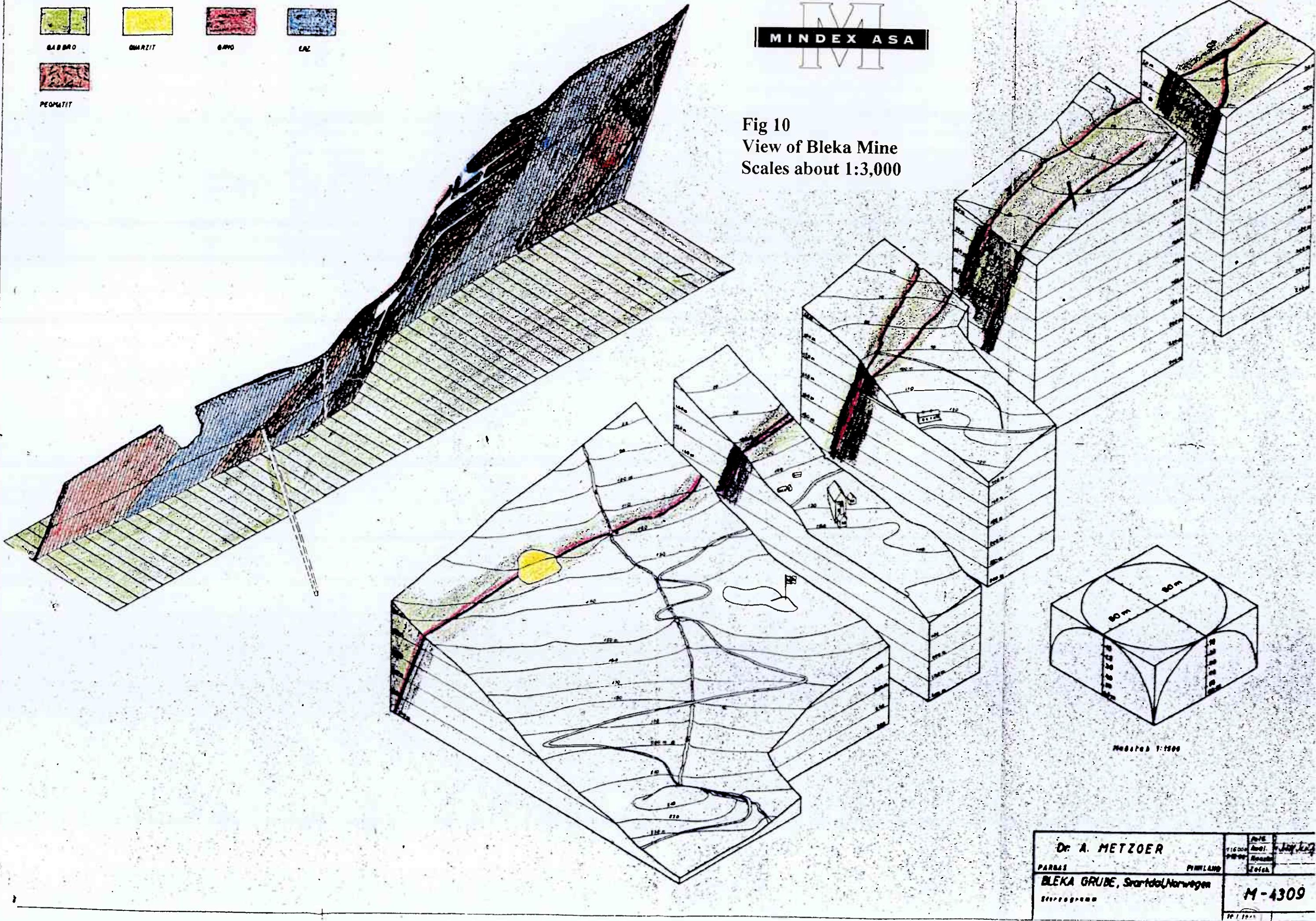
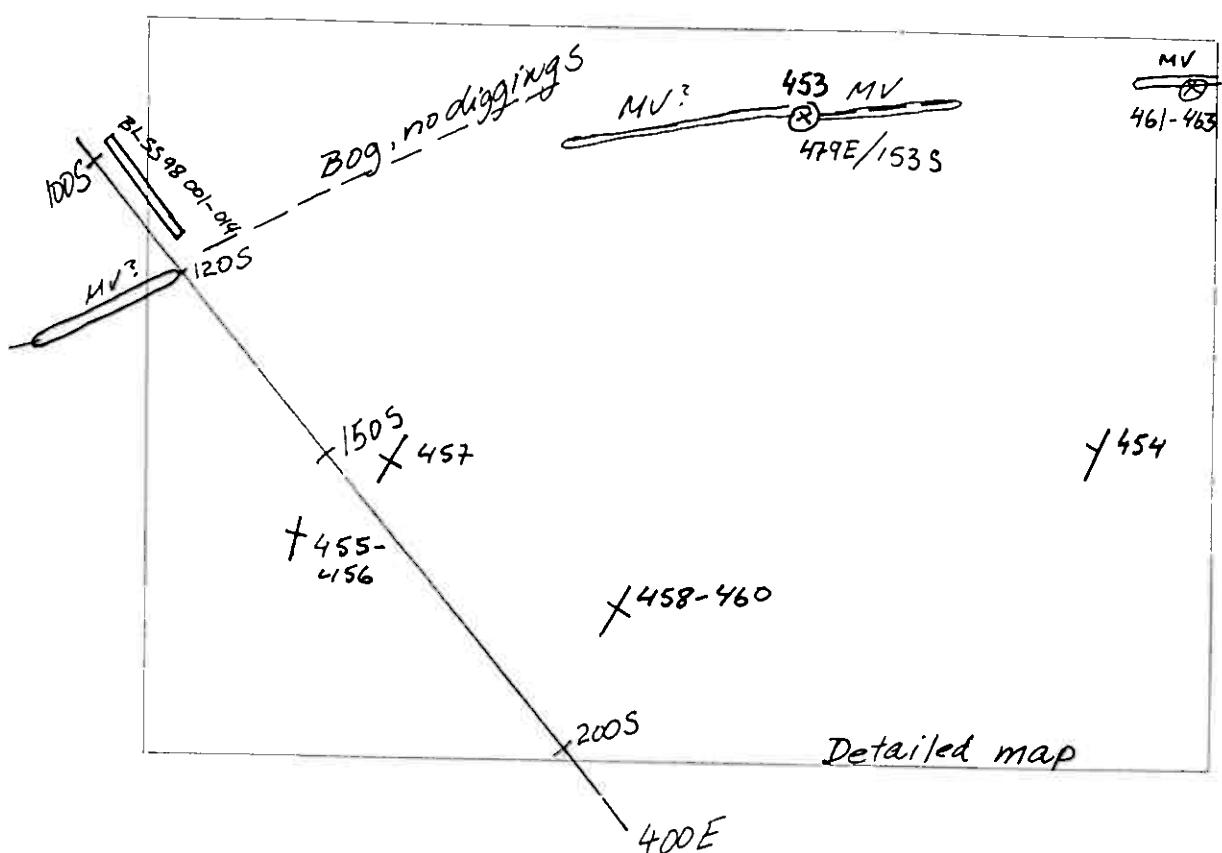
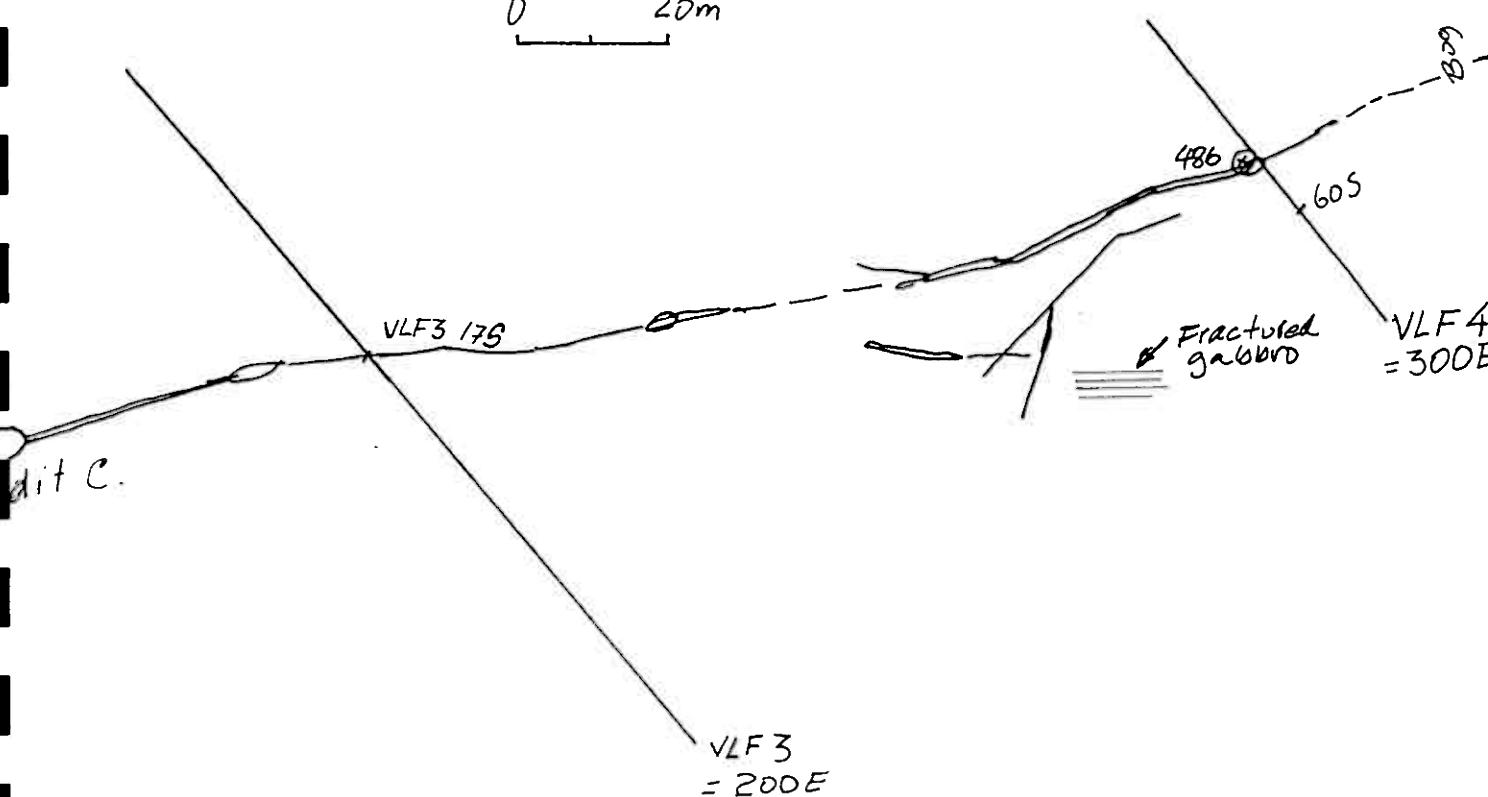
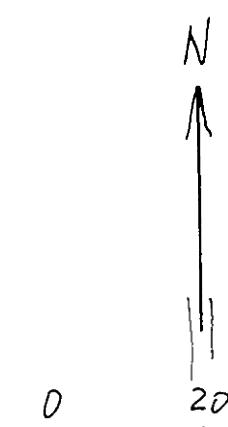




Fig no 11
Bleka Main Vein between 100E and 500E



453:	MV. Vein metr. with Q, Anker. Cpy	27 ppb Au
454:	Q, Tourn, Py, Cpy	"
455:	Wall rock alter. with Py, Amph., Tourn.	"
456:	Q-vein w.th Py, Tourn.	145 "
457:	Massive Tourn, Q, Py, Cpy-vein.	"
458:	Massive Tourn, Q, Py -vein	11 "
459:	Finegr. massive black Tourn, Q	10 "
460:	Wall rock alter. with Py, Cpy, Tourn.	11 "
461:	MV. Vein metr with Anker, Q, Tourn + a little sulph.	6 "
462:	Wall rock alter. with Anker, Py, Cpy(?)	15 "
463:	MV. Vein metr. with fine diss. of Cpy, Sk(?) Bi(?)	8 "
486:	MV. Wall rock alter. Massive alter with ~mass Py.	40 "
		46 "

possible to find any of these shafts, however, it is believed that they are related to some parallel veins to the Bleka M.V.

The gold content in most of the samples taken in the upper and eastern part of the Bleka M.V. is quite low in spite of some samples also do contain some bismuthinite, galena and chalcopyrite like samples no 464, 473, 475 and 476.

The alteration of the meta-gabbro host rock to the Bleka M.V. is from a few centimetres up to one metre, and the alteration minerals are ankerite, sericite, albite and pyrite. The gold content in the altered wall rock is normally anomalous containing up to a few tens ppb Au.

Samples no 431 and 432 are taken from a small pit in the Bleka M.V. which are the eastern-most samples of the vein. No 431 is from the 4cm thick vein, while no 432 is from the altered wall rock with some disseminated chalcopyrite. Both samples returned low gold values at 13 and 29ppb respectively. The altered minerals are carbonate and sericite with some disseminated sulphides, and the alteration amounts to almost one metre at each side.

Samples no 217 and 218 sampled 1997 is located about 850m NNE of the samples above, may also be from the Bleka M.V. See chapter "geophysical measurements". The samples are sampled from an altered meta-gabbro with some disseminated sulphides. Sample no 218 returned anomalous contents of Cu and Zn with only background gold contents.

Sample no 405 is from the opposite WSW end of the Bleka M.V. where it seems to stop when it runs into a quartzite. It is sampled from a small showing in the Bleka M.V. structure with quartz, rusty-yellow to greenish coarse grained calcite, chlorite, pyrite, chalcopyrite and bismuthinite. The sample contained 318ppb Au.

Further to the WSW, the geology is quite complicated with intrusions of granite at the boundary between meta-gabbro and quartzite. It is therefore believed that the Bleka M.V. discontinues WSW of location 195W/50N (Sample 405).

Quartz-Tourmaline veins in The Bleka Area.

Numerous quartz-tourmaline veins ± ankerite, sericite, albite, pyrite, chalcopyrite, galena and bismuthinite may be found all over the Bleka area in the Bleka meta-gabbro. All registered veins from 1997 and 1998, in total a little more than one hundred are plotted on the enclosed map, fig 2.

Almost all veins are sampled and given a short description. At several locations samples of the wall rock are also collected – especially where alterations may be seen. Enclosures no 2 and 3 lists up all the samples with analytical results. The registered number of veins is limited by a low rate of rock exposures in the area as well as limited time spent on systematic search for undiscovered veins. Detailed sketches are made on some of the locations. See Figs.

- No 12. Vein swarm NE of line 400E.
- No 14. Veins SE of Bleka M.V. at line 200E.
- No 15. Veins NE of farm "Bleka South".
- No 16. Tourmalinitite location.
- No 17. Teigen Veins.
- No 18. Barstad Claim.
- No 19. Blengsdalen Claims.
- No 20. Veins at RV134 Road Cut.

Fig 12 shows the adjacent area to the S of the Bleka M.V. A number of 18 quartz-tourmaline veins are found at the relatively small outcrops of meta-gabbro. Only one of the sampled veins (no 456 with 145ppbAu) returned gold contents above background levels.

Fig 14 shows a set of veins sub-parallel to the Bleka M.V. The veins are strongly overgrown by "blue anemone" and no vein material was found except for quartz, tourmaline and ankerite. Sample no 411 returned gold contents at 220ppb. Exact thickness of the alteration zone is not possible to determine, but it is believed to be around one metre. It is reason to believe that the alteration zone is extensive with abundant formation of carbonates since much of the lime-attracted plant "blue anemone" is found in excess covering the old trenches.

Fig 15 shows two veins about 150m NE of the farm "Bleka South". The biggest vein, (Sample 429) 0,4m in thickness contains quartz, tourmaline, pyrite, chalcopyrite and trace of galena. The crossing vein has a thickness at about 5cm with quartz, pyrite, chalcopyrite and tourmaline. The gold content in both veins is only slightly anomalous with anomalous contents of Cu and partly Pb.

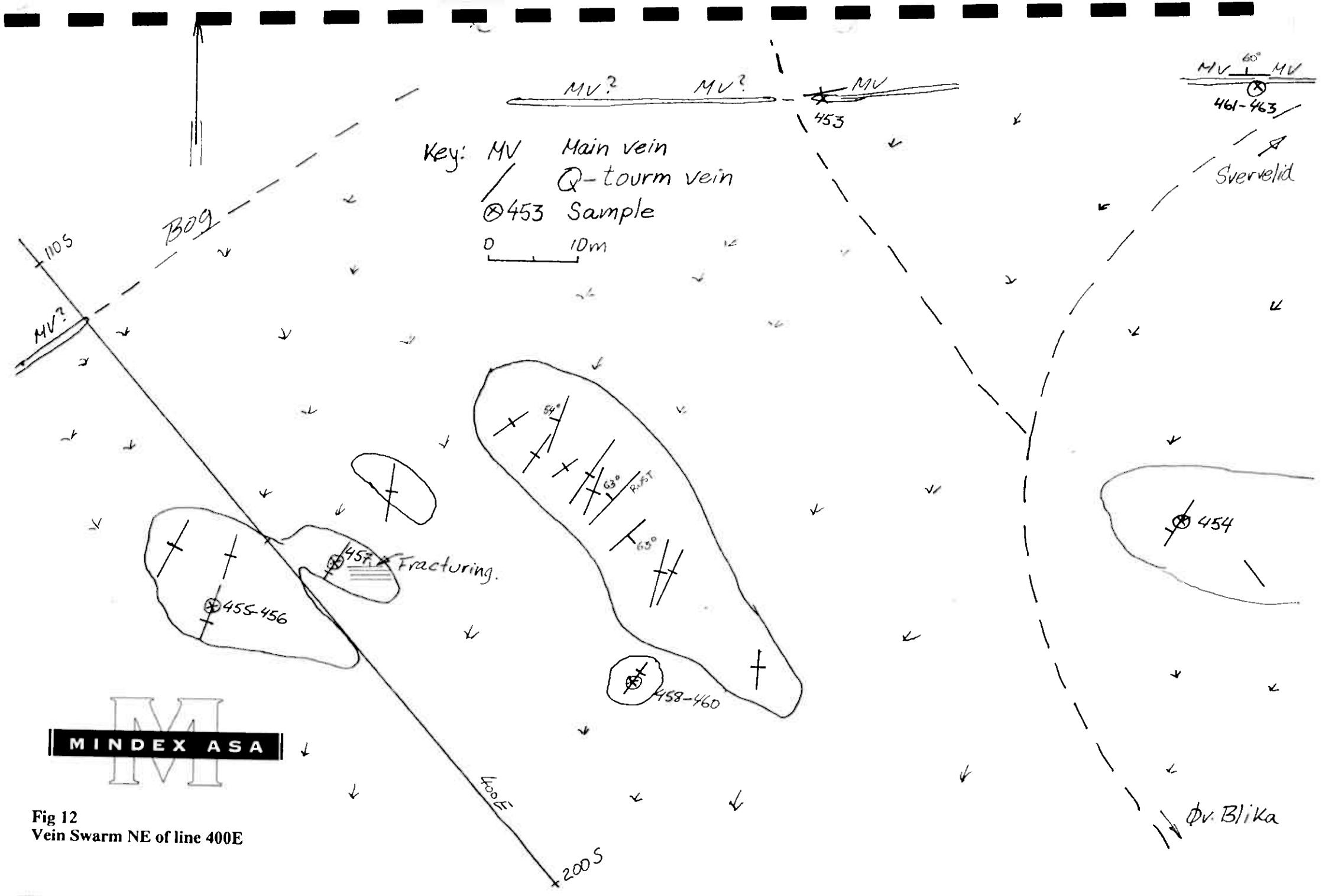
Fig 16 is a location of a "tourmalinite pocket" about 150m NW of the cabin Teigen. It seems to be formed in connection with a granitic sill about one metre in thickness in contact with meta-gabbro. The "tourmalinite pocket" outcropping covers about 1m² and consists of massive coarse grained tourmaline crystal aggregate with crystals up to 5cm in length. Granite sills or minor granite bodies may be found in the whole field of Bleka, and in contact zones with the meta-gabbro sulphide-tourmaline occurrences is found. Locations no 424, 425, 488 and 489 are also from granitic sills or quartz veins related to granitic sills. The content of Au in these samples is in general slightly anomalous.

Fig 17 is from the Teigen cabin area. Near Teigen three veins and in situ floats from two veins are found. All samples have returned only background contents of gold. It should be noted that abundant "blue anemone" and a VLF-crossover-anomaly are located in the area of the two in situ floats.

Fig 18 shows Barstad claim about one kilometre NW of Bleka mine site. A 20metre adit is worked out along the strike of the vein at 279°. The rock chip sample (No 447) over the thickness of the vein over 0,3m contained no gold. Sample no 446 of altered meta-gabbro from the dumps (about 100m³) with sericite, ankerite and pyrite is, however, slightly anomalous in gold with 38ppb Au. Sample no 445, also from the dumps with quartz, pyrite, tourmaline and chalcopyrite contained no gold. The Barstad claim/vein is also marked on the old map **fig. 7** with a traced length at almost 700 metres and Haugstul vein more than 400 metres almost parallel to Bleka M.V.

Fig 19 shows the Blengsdalen claim area with six different claims marked A to E.

A. Claim A was covered by gravel when a parking was prepared in that area. Fig A shows only a small exposure with altered meta-gabbro with two generations of carbonate fissures 316°/70°NE and 72°/St. – the first being the youngest. Sample no 481 of strongly altered meta-gabbro with carbonate, sericite and disseminated pyrite returned analysis with background values of gold (12ppb) as well as other trace elements like Cu, Pb, Zn and Bi.



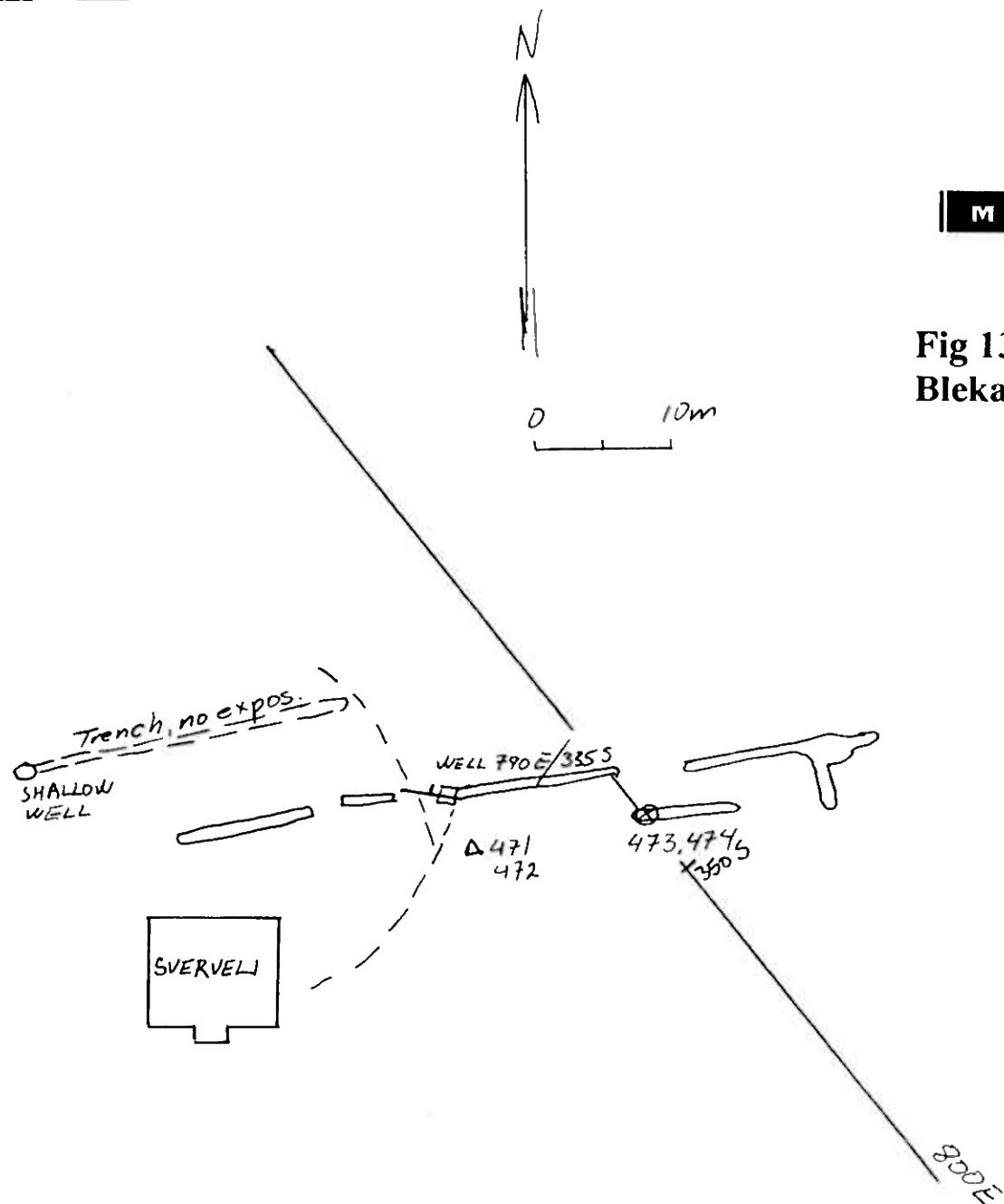
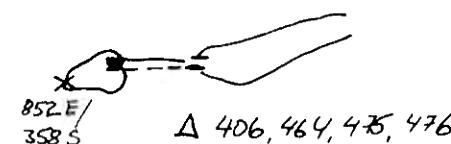


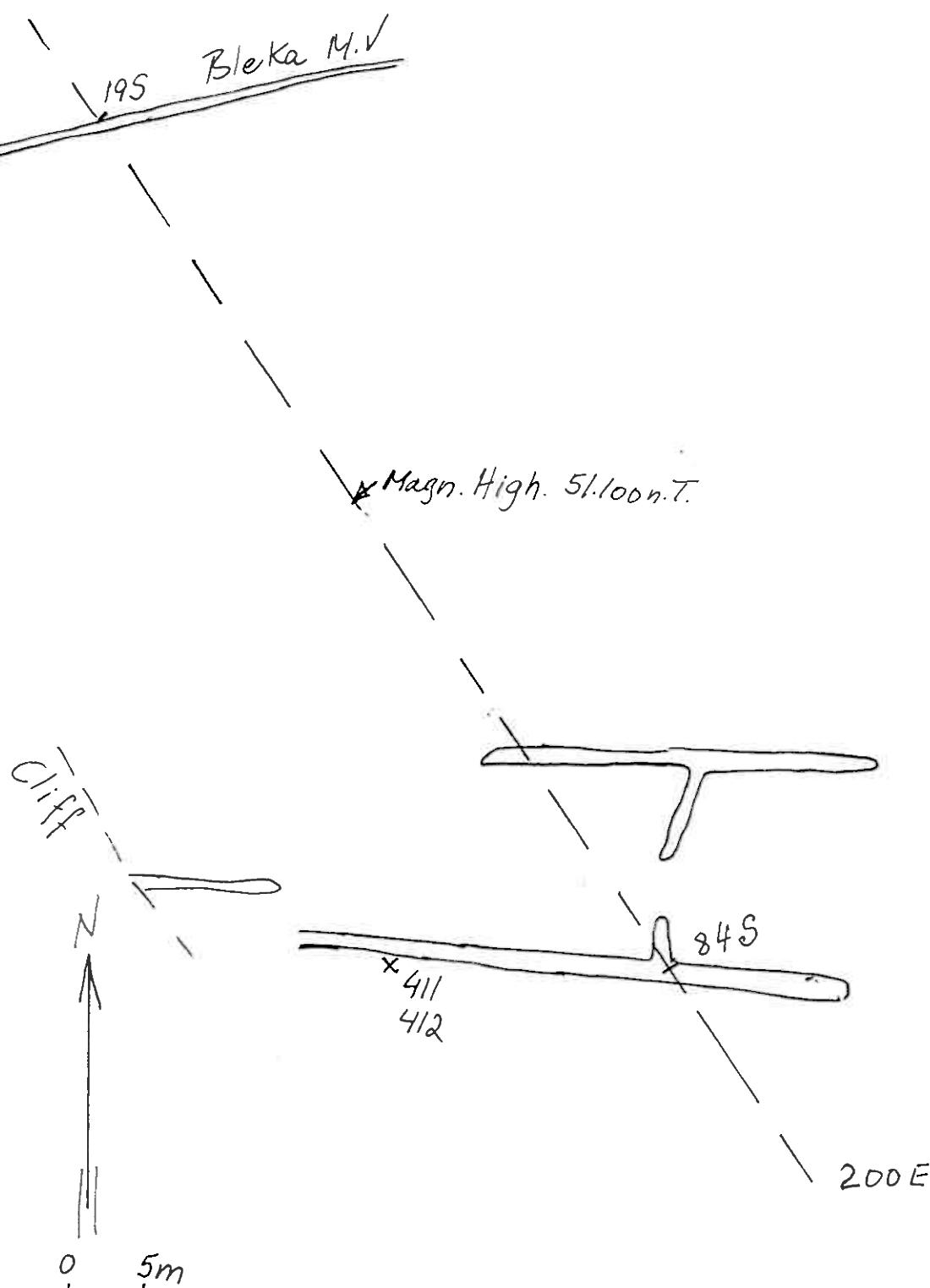
Fig 13
Bleka Main Vein, Sverveli



- | | |
|--|-----------|
| 406: MV matr. with Py, Gn, Q | 72 ppb Au |
| 464: MV matr. with Q, Py, Cpy, Gn | 790 " |
| 475: MV matr. with Q, carb., Mt, Py, Cpy, Gn, Bi | 343 " |
| 476: MV matr. with Q, carb., Py, Cpy, Gn, Bi | 272 " |
| 471: MV matr. with Q, carb., Py, Cpy, Mt | 25 " |
| 472: Alter. wall rock with Anker, cer, Mt, Py, Cpy tr. 7 | " |
| 473: MV matr. with Q, carb., Py, Cpy, Bi + wall rock | 383 " |
| 474: Alter. wall rock with Anker, Py, Cer | 13 " |



Fig 14
Veins SE of Bleka M.V. at line 2200E



411. Vein at 84S. Overgrown (Blue Anemone!) Q, Ank, Tourm 220 ppb Au
 412. Ankrite 12 "

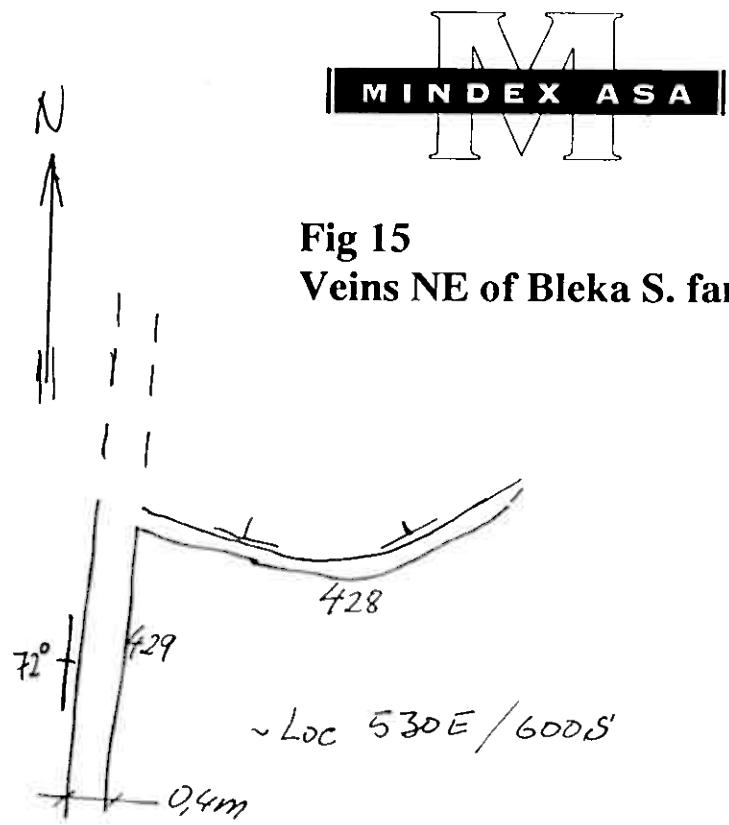


Fig 15
Veins NE of Bleka S. farm

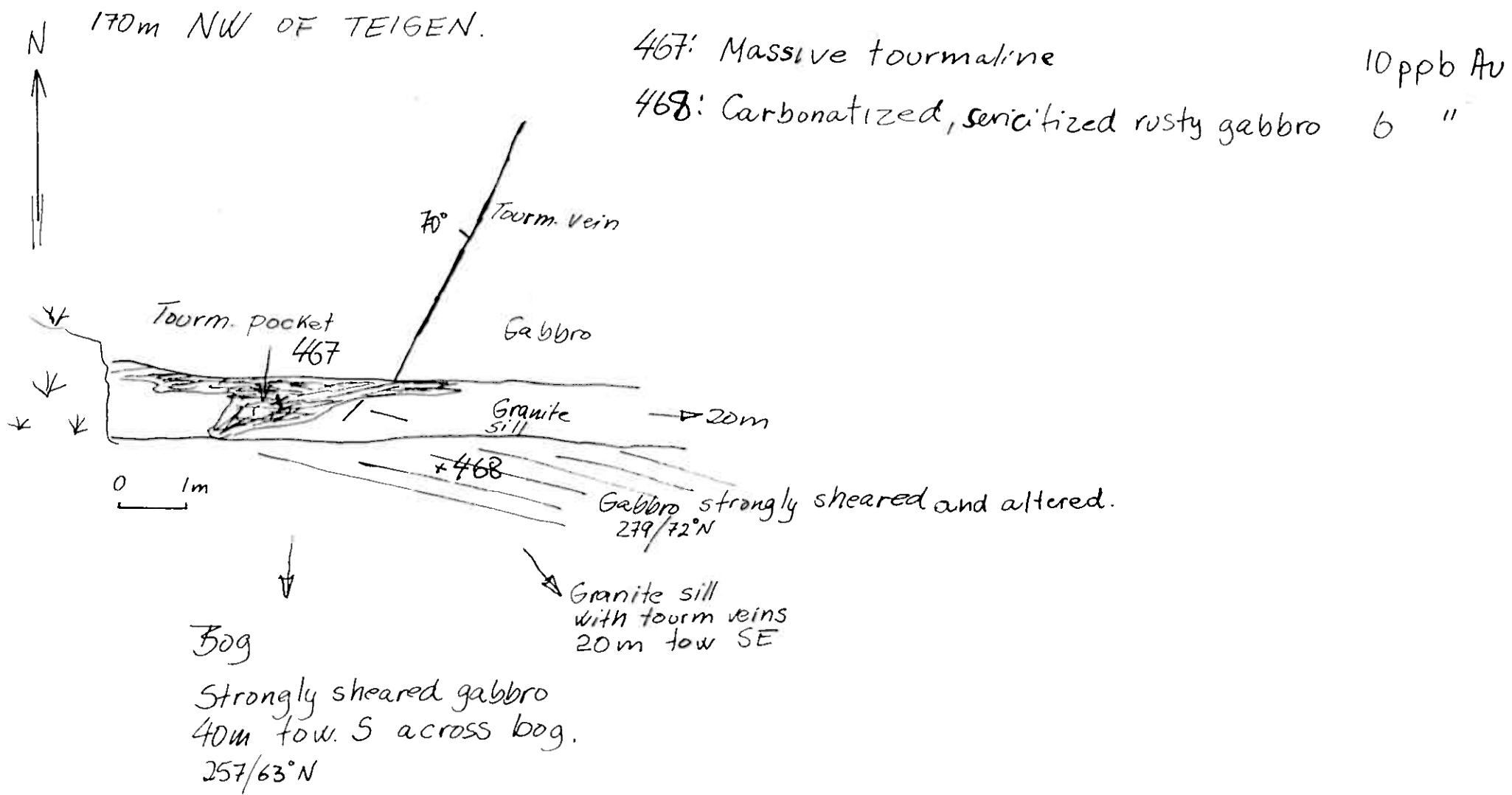
428 Crossing vein. Py, Tourn, Cpy.

25 ppb Au

429 "Main" vein. Py, Cpy, tr Gn, Tourn, Q

21 " Au

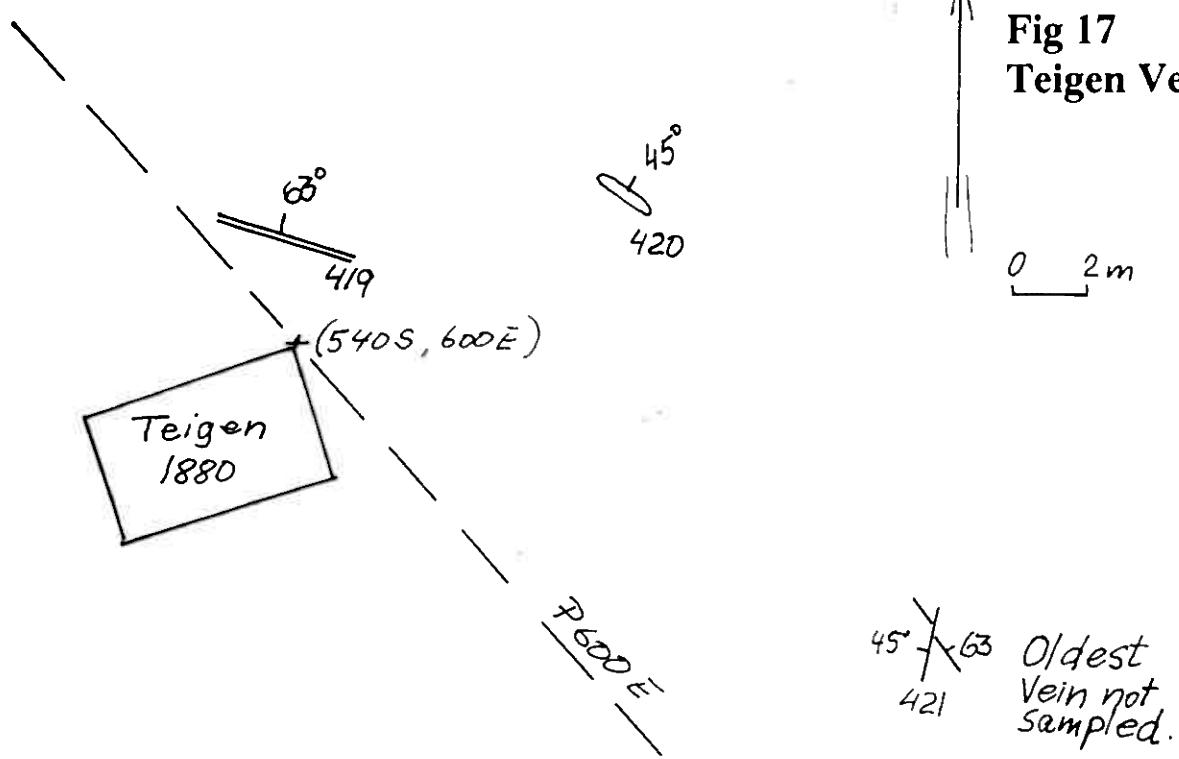
Fig 16
Tourmalinite at 563E/368S



Teigen veins



Fig 17
Teigen Veins 600E/540S



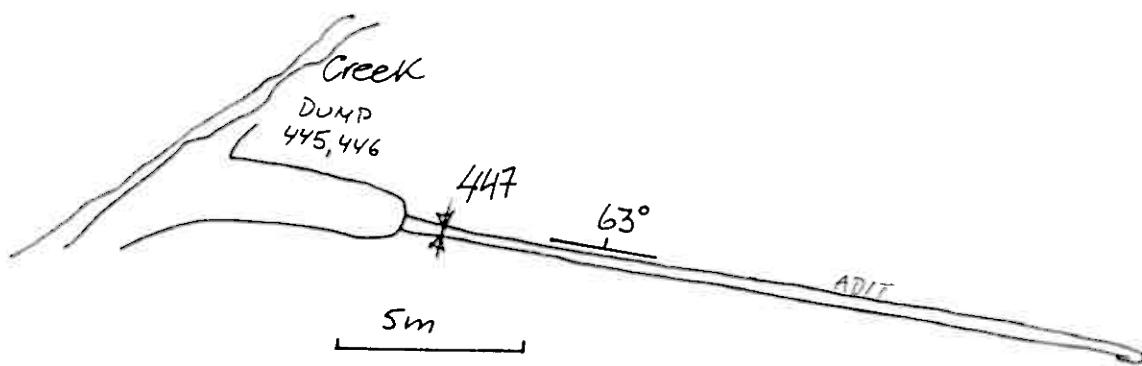
- 419: Q, tourm, ank, rutile. Tr. Py, Cpy. 0,2m alter. zone 6 ppb Au
- 420: Lense; similar to 419. Less alteration. <5 ppb Au
- 421: Tourm, Q, Cpy <5 ppb Au
- 470: In situ boulders with Q, Py 12 ppb Au
- 477: In situ boulders Q-tourm, Bi³⁺, Carb 6 ppb Au

Δ 470
477 Δ

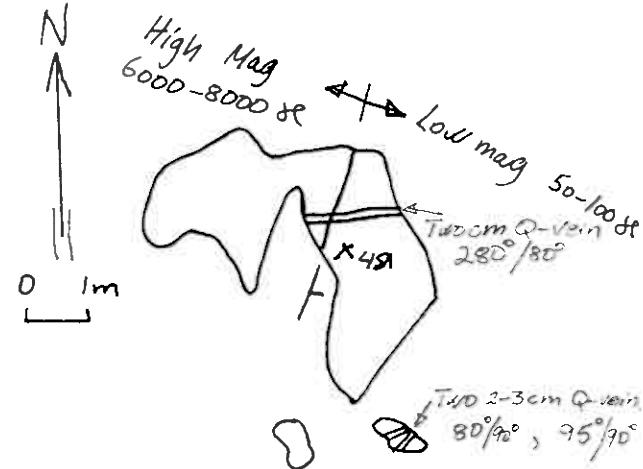
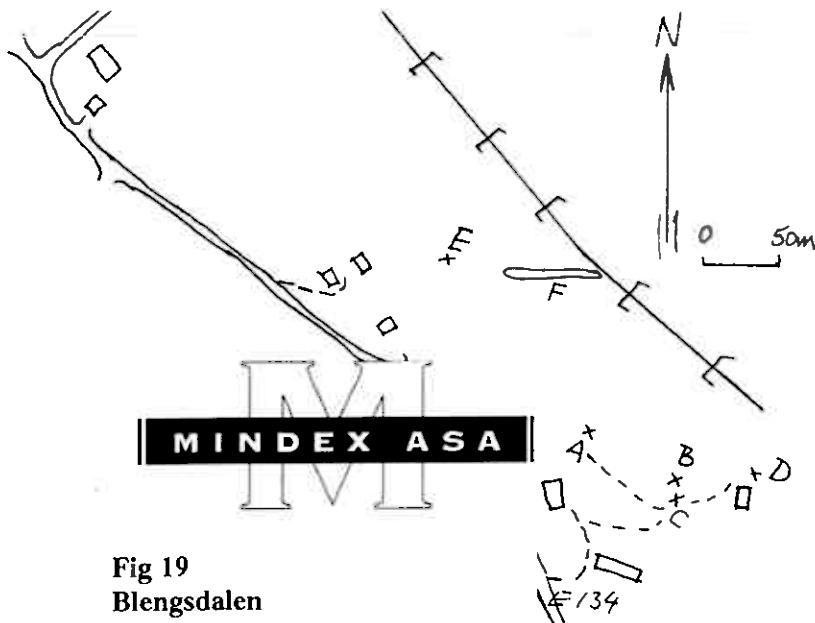
N



Fig 18
Barstad Claim 370W/960N

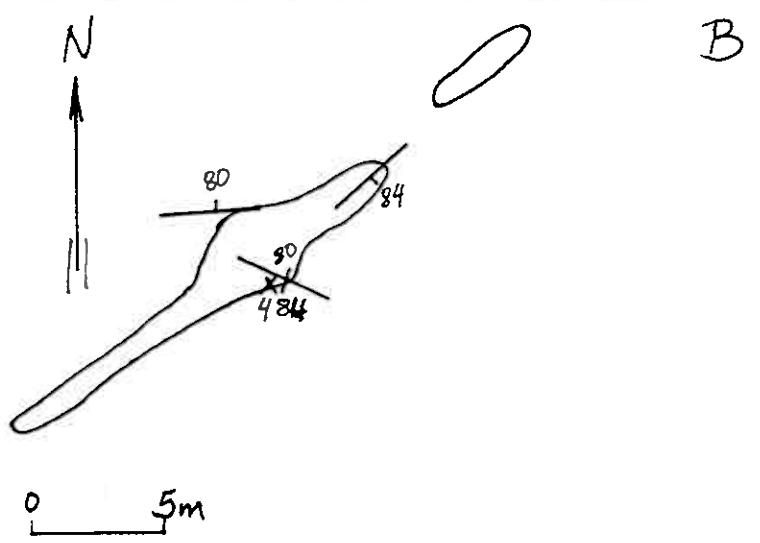


- 445: Rock Grab Sample Q, Py, Tourn, Cpy <5 ppb Au
446: Altered gabbro. Sericite, Ankerite, Py. 38 ppb Au
447: Rock chip sample of vein 0,3m <5 ppb Au

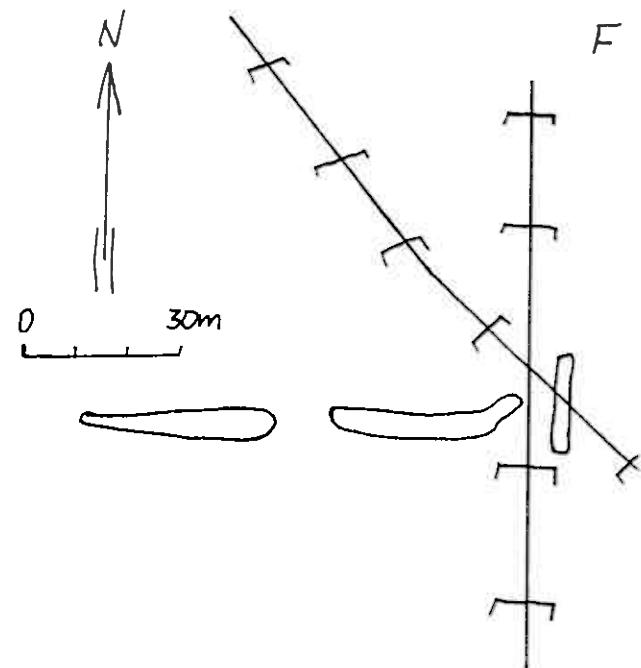


481: Altered gabbro w/carb.py 12 ppt Au

ROAD



484: Q-tourm vein t=0,2m 30 ppbAu

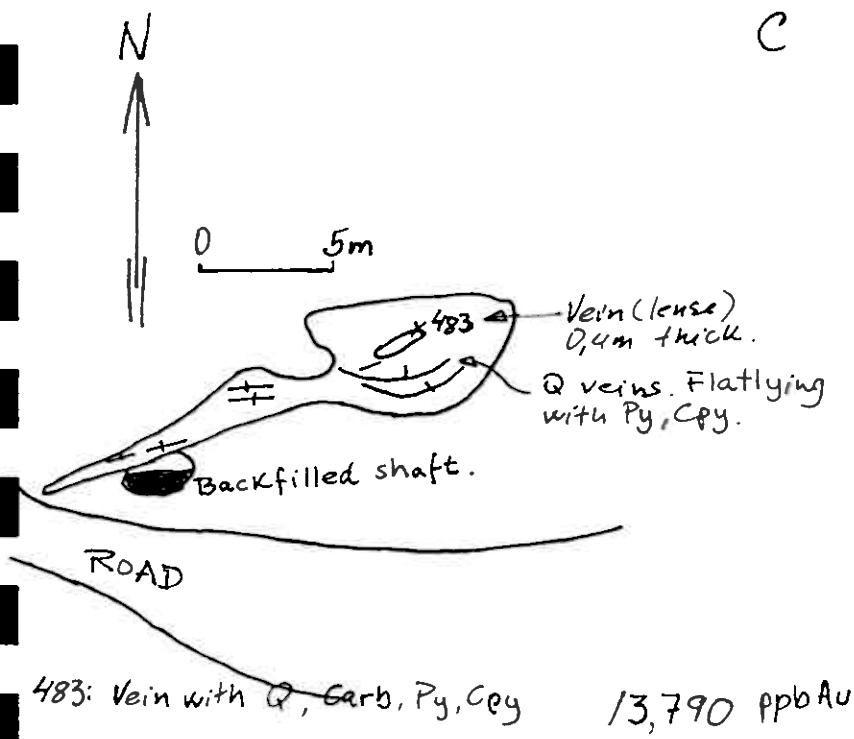


D

Backfilled shaft prospect.
No traces left.

E

Small pit backfilled with
branches. No outcrops.



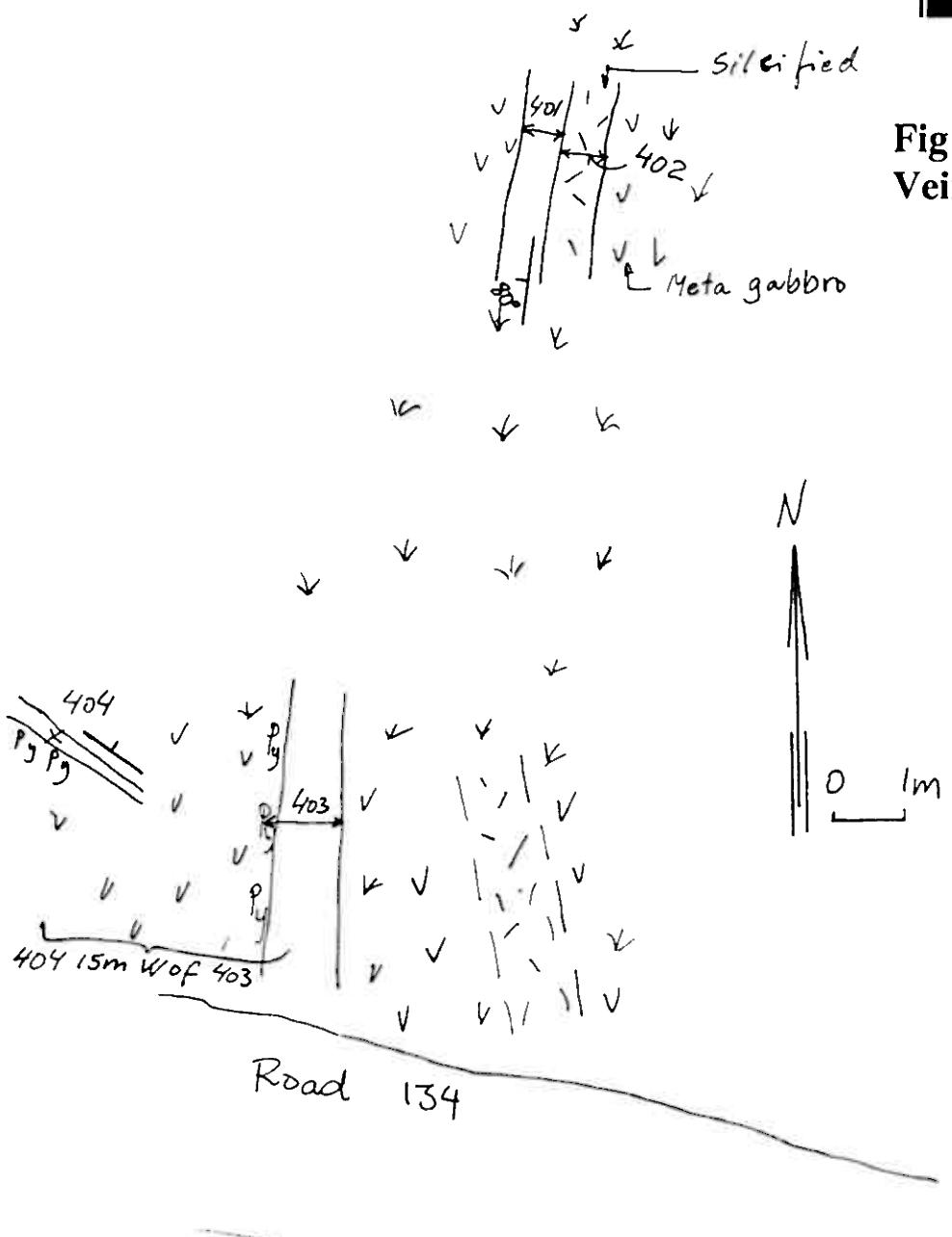


Fig 20
Veins at RV 134 Road Cu

		ppb Au
401	Pynite and Quartz	13 "
402	Feldsp. rock, siliсif. with diss py	<5 "
403	Quartz with py in contact zone	212 "
404	Quartz with py in contact zone(as 403)	16 "

There is a big difference in magnetic susceptibility at each side of a plane striking at 75° and dipping 45° to the SE. Towards the NW it is 6000 to 8000 μ , while it is 50-100 μ to the SE.

- B. Claim B is a NE-SW striking quartz-vein. A 1,5m deep trench has been dug over 23m. Most of it is covered except for the central part where it has been blasted. The susceptibility is low (100-150 μ) at the NW side of the vein and quite high (2000-4000 μ) on the SE side of the vein. Sample no 484 is collected from a quartz-tourmaline-chlorite vein (295/80) with carbonate-sericite alterations of the wall rock. The gold content of the sample is only 30ppb Au.
- C. Claim C is at the yard of Blengsdalen farm. A small shaft has been back-filled and a sandbox is made just on top of it. Several mineralised veins and one lens can be seen on the 20x3m outcropping cliff above the sandbox. Sample no 483 is collected from the about 0,4m thick flat lying lens with quartz, carbonate, pyrite and chalcopyrite. It returned the highest gold content from the Bleka area for the 1998 season with almost 14ppmAu. The copper content is 0,79%, while Pb and Bi shows only elevated contents.
- D. Claim D is also a back filled shaft which has been covered by soil and planted by grass. No access to any samples.
- E. Claim E is located about 100m west of the dumps of Blengsdalen main claim. Only a small overgrown pit filled with branches was found.
- F. Claim F is the Blengsdalen main claim where the vein can be traced for 70 metres. The main claim comprises of three trenches: Two in E-W direction 30 and 22m of length respectively, and one in N-S direction about 20m of length. The trenches are water filled with garbage, so ore samples may only be found at the dump. Earlier studies and reporting from the Blengsdalen main claim concludes the claim to be one of the richest for gold in the Bleka area. Visible Gold is frequently found at the dumps of the Blengsdalen claim F.

Fig 20 shows a set of quartz veins in a road cut by road 134. The upper (Northern) exposure shows a NS-striking vein with a steep dip to the west. Adjacent to the quartz vein it is a silicified feldspathic rock with disseminated pyrite. The silicified rock may be an alteration product of the meta gabbro wall rock. About 15m from the upper exposure, by the road, the two "veins" have separated as shown on fig 20, and the silicified rock is therefore most likely a separate vein. Four samples were collected from this location and the rock chip sample (403) across 0,7m of the quartz vein including some pyrite in the contact zone to the meta gabbro returned anomalous content of gold (212ppb Au).

Sample no 430 is from a two cm quartz-galena-bismuthinite-pyrite vein in quartzite blasted out in a barn basement at the farm "Nordre Lien Fjellgard" (272646/660870). The sample returned a gold content at 1,5ppm Au, 1903ppm Ag, 6,26% Pb, 0,38% Bi and background contents of copper. No systematic field work is done to find similar mineralizations in quartzitic areas. However, in the road cuts of the Svartdal road, semi-horizontal tectonic zones a few centimetres in thickness, often rusty may be seen. Due to the nature of the surface it is not possible to get samples of these zones only with a hammer.

Structural study of veins.

A brief study of the registered 102 different veins located 1997 and 1998 shows that quartz-tourmaline veins may be found at almost "all" orientations.

There are three dominant vein directions:

A. Vein directions between 20° and 40° (200° - 220°) are representing 19,6% of the registered veins. Less than one third of the veins analysed with the direction above are anomalous in gold. The respective wall rocks are in most cases not altered, and only one of the samples from altered wall rocks returned anomalous gold contents.

B. Vein directions between 80° and 100° (260° - 280°) are representing 17,6% of the registered veins, and about two thirds of the samples are anomalous in gold. Altered wall rocks are most commonly found in the contacts between E-W (B-vein-direction) and the meta gabbro wall rock. The gold content in the altered wall rocks adjacent to veins with the E-W direction is frequently anomalous.

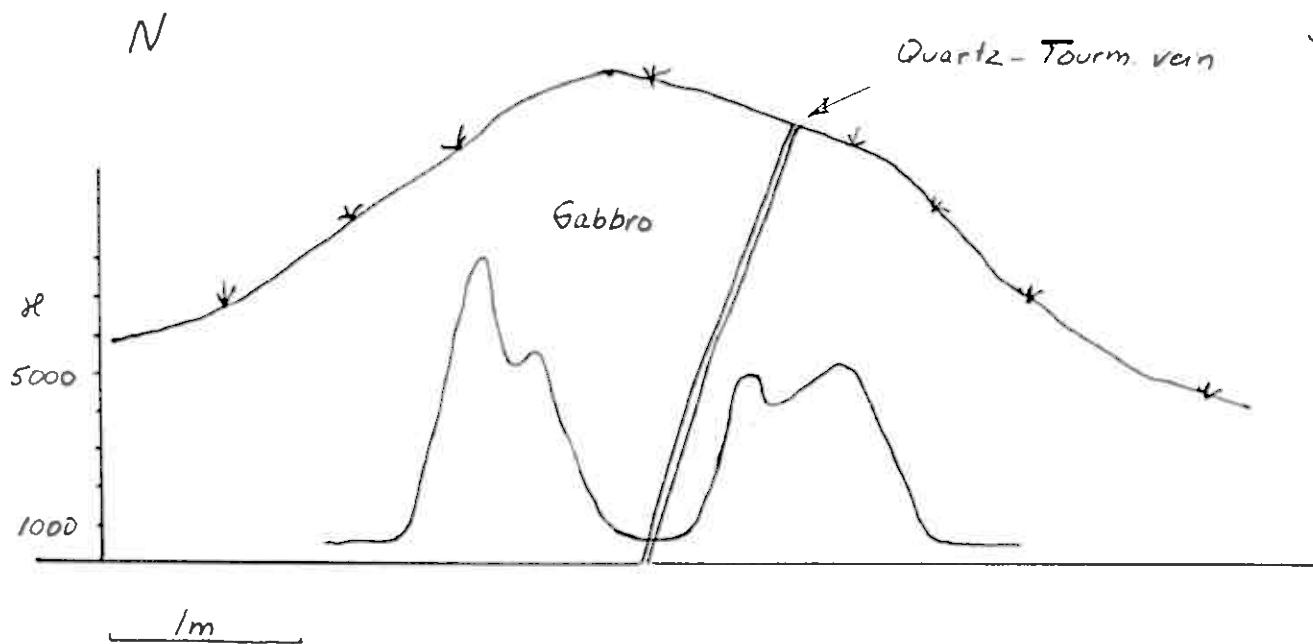
C. Vein directions between 170° and 190° (350° - 10°) are representing 14% of the registered veins. More than half of the veins with the C-direction are anomalous in gold. Limited wall rock alterations are seen in the adjacent wall rocks to these veins, and no anomalous gold contents are detected.

Remaining veins with directions other than the directions above accounts for as much as 48% of the registered veins. However, less than one third of these veins are anomalous in gold and a very limited number of veins with wall rock alterations are found in this group. Less than 4% of the registered veins in this group have wall rock alterations with anomalous gold contents.



Fig 21

Road cut at 475300/6605850 UTM
Magnetic susceptibility across small
Quartz – tourmaline vein



Geophysical survey.

Magnetic survey.

Fairly strong magnetic anomalies occur over the Bleka meta gabbro. The nature of the anomalies are long narrow zones up to 1300m in length with anomalies ranging from a few hundred nT to more than 3000nT over 15 to 20m across the anomalies. Most of the magnetic anomalies may be interpreted to be vertical or sub vertical magnetic bodies often with a sub vertical dip.

A magnetic ground survey made in 1997 by Kristian S. Jensen was followed up 1998 by more detailed measurements. Most of the anomalies that were located in the 200m spaced profiles of 1997 were followed up 1998 by measurements along strike to confirm their continuous nature. Map Fig. 2 shows the magnetic anomaly pattern. The Bleka M.V. responds to the magnetic measurements, and an almost continuous anomaly may in total be traced for as much as 3,0 kilometres including the Bleka M.V.

In the south part of the area, a cluster of six parallel magnetic anomalies with a ENE-WSW strike may be traced for 600 to 1300m. The direction of the strike of the magnetic anomalies is sub parallel to the Bleka M.V.

The magnetic anomalies are often coinciding with strongly fractured zones striking EW with a steep dip to the north. Calcite is deposited in the fracture planes. The same fracture pattern with the calcite may often be seen in the Bleka meta gabbro adjacent to the Bleka M.V.

The Bleka meta gabbro has normally a low magnetic background with ground measured levels at around 50,000 nT. It contains about 1% pyrite, which is unevenly distributed throughout the rock unit. Where shearing/alterations has occurred, the pyrite is altered to magnetite. In the vein structures where pyrite is deposited as alteration products in the earliest phases of mineralizations, the pyrite is altered to magnetite in the late phase of mineralization. The bulk deposition of gold mineralization took also place at the same time as the late stage formation of the magnetite (Petersen, pers.com.).

The discontinuities of the magnetic anomalies are interpreted to be areas with low content of pyrite.

Fig. 21 from UTM-location 475300/6605850 shows a typical picture of the magnetic pattern across mineralized veins in the Bleka meta gabbro. No visible alterations may be seen. In the immediate vicinity of the vein the magnetic intensity is moderate to low as it often is in unaltered host rock. Measurements of the magnetic susceptibility in profiles across the vein, shows that there are two zones with a high content of magnetite located 0.2 to 1.2m from the vein.

It has not been possible to confirm the occurrence of gold together with magnetite in the last low temperature phase of mineral deposition. In the follow up of the Bleka gold veins it is of great importance to log the drill cores with magnetic susceptibility measurements and carefully analyse the anomalous zones for gold and related elements.

VLF - survey.

During early September 1998 a geo-electrical VLF-survey was carried out and conducted by Mr. Cesar Gonzales, Geophysicist of MRDI (Mindex Resources Development Incorporated, the Philippines).

A number of 14 profiles were measured totalling 7,25 profilekm. The list below presents the VLF-profiles with their corresponding grid profiles:

VLF-Profile.	Corresponding grid profile. Measured intervals.
VLF1	0E (Base line)
VLF2	100E
VLF3	200E
VLF4	300E
VLF5	400E
VLF6	500E
VLF7	600E
VLF8	700E
VLF9	800E
VLF10	1600E
VLF11	1800E
VLF12	1900E
VLF13	2000E
VLF14	2100E

The measured VLF-profiles do not correspond to the flagged profiles from 1997 because the VLF-measurements are automatically reduced to horizontal distance for each measured interval.

Corresponding N-S-coordinates will be included in the VLF-report by Mr. Gonzales. The VLF-survey revealed several VLF-anomalies. The survey was, however, hampered by power lines running through some of the most interesting areas and several cattle and sheep fences. Some of the most interesting anomalies like coinciding VLF-Mag-anomalies were followed up deep soil sampling, see next chapter. VLF-anomalies did also occur in areas vegetated by "Blue Anemone" most likely caused by lime rich soil from either alterations or calcite in fracture zones.

Some coinciding Mag and VLF anomalies:

- VLF1- 140N and a 400nT anomaly at about 150N.
- VLF1- 45N and a 200nT anomaly at about 50N.
- VLF1-90-95S and a 1700nT anomaly at about 50-150S.

A more complete table of correlation between the Mag and the VLF-anomalies will be worked out when the VLF-report is completed.

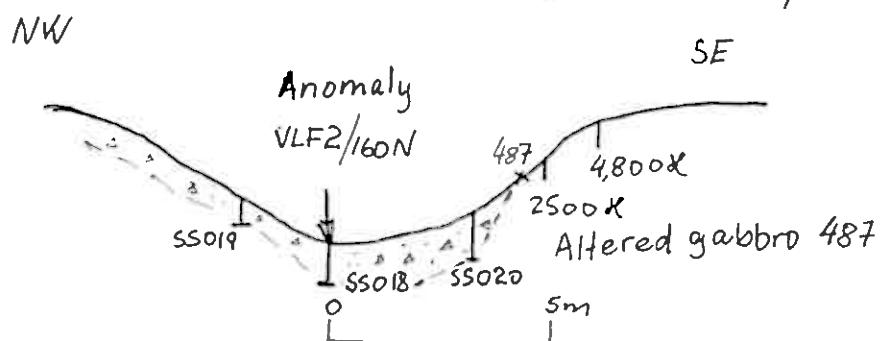
The VLF-program carried out demonstrates that is a tool to identify the gold bearing veins at Bleka and/or structures and alterations related to the gold mineralizations. VLF-anomaly at 1600E/856-865S supports the extension of Bleka M.V.



Fig 22

Combined VLF/Mag – anomaly With anomalous gold contents in Soil and Altered Gabbro

Fractures 258/63 N



SS018 Soil sample	9 ppb Au
SS019 -----“-----	17 ---“---
SS020 -----“-----	9 ...“---
RGS487 Altered Gabbro	12 ---“---

Geochemistry.

Hard rock geochemistry.

Most of the hard rock samples collected are from Bleka M.V. and quartz-tourmaline veins. The analytical results from these samples are presented in the chapter "exploration work". Some rock samples are also collected from magnetic anomalies or concentrations of sulphide minerals where anomalous contents of gold or other trace elements possibly could give support to further exploration work.

The unaltered gabbro has returned gold contents below detection limit in most of the samples with or without pyrite. Even the strongly fractured gabbro with a high content of disseminated magnetite (most likely altered from pyrite) and calcite deposited in the fracture planes has returned low gold contents. The strongly fractured gabbro contains elevated contents of zinc and barium.

Pyrite and/or magnetite are often found in the altered gabbro as an alteration product and sometimes together with traces of metallic minerals like chalcopyrite and galena. The hydrothermally altered gabbro has returned elevated and slightly anomalous Au, Cu, Zn, Pb, Bi, Ba and Co contents. This is especially the case for alteration zones related to quartz-tourmaline veins with a E-W strike.

Three samples (399424, 425 and 489) with pyrite, chalcopyrite and molybdenite from quartz veins in or in close contact with granitic sills returned all anomalous contents of Au, Cu, Pb, Mo, Co, Bi and As.

Deep soil sampling.

A number of 45 (No 001 to 045) deep soil samples were collected in 8 profiles. See **Enclosure no 4** with description of the samples and analytical results.

The deep soil sampling was targeted to check some of the VLF and Mag-anomalies to see if they were caused by the Bleka type of gold-vein mineralization.

Each sample is given its grid coordinates, sample depth in metre, magnetic susceptibility and a short description.

In more than 50% of the samples gold was detected with low contents from 6 to 20ppb Au.

One sample (no 002) was also anomalous in mercury (17ppb Hg). Samples no 001 and 002 were anomalous in Au (17-10ppb Au), Cu, Pb and Zn which indicates the existence of Bleka M.V. at the East side of the bog in profile 400E. It also indicates that VLF-measurements may be a tool to identify the Bleka gold bearing veins.

The two samples (No 015-016) collected in the 400E-profile in a terrain depression north of the Bleka M.V., returned also slightly anomalous contents of gold, (10-20ppb Au).

Samples no 018-020 in profile 100E in a terrain depression also just north of the Bleka M.V., are also slightly anomalous in gold, (9-17ppb Au). Outcropping altered gabbro in the same profile, sample no 487, is also slightly anomalous in Au. See **Fig 22**.

Samples no 025-028 in profiles 1600E and 1452E, "The Fork Magnetic Anomaly" are also showing some weak elevated contents of gold (6-9ppb Au) indicating that this anomaly north of the possible continuation of the Bleka M.V. may be mineralized.

Samples no 036-039 in profile 1600E/856-865S sampled across a VLF-anomaly are showing elevated gold contents (6-15ppb Au). The VLF-anomaly covers approximately the expected trace of the continuation of the Bleka M.V. about 40m S of the Mag. Anomaly.

The extension of the Bleka M.V. is also supported by the results of the deep soil sampling

Chemical analysis.

Both rock and soil samples have been shipped to Intertek Testing Services, Bondar Clegg (ITS) in Merseyside, Liverpool UK. ITS is the former Bondar Clegg Inchcape Testing Services and before that Caleb Brett which operated in the same facilities. ITS is in the UK mostly working on analysing of samples related to pollution and environment. Mineral exploration samples may, however, also be analysed at their laboratory in Merseyside. The samples shipped to ITS are crushed split and prepared for analysis in UK and then shipped to Bondar and Clegg laboratories in Vancouver for analysis.

The Bleka rock samples were analysed by a "Multi Element Package Au+34". Gold was fire assay analysed (50g fire assay) with a detection limit at 5ppb. The other 34 elements were analysed by Code IC01 (Atomic Emission Technique). Total preparation and analysing cost per sample with some additional overrange analysis amounted to about NOK 163,-.

The Bleka soil samples were analysed by a "Multi Element Package Au+9P". Gold was fire assayed (30g fire assay) with detection limit 5ppb. The eight elements Ag, Cu, Pb, Zn, Mo, As, Sb and Bi were analysed by Atomic Emission Spectroscopy, while Hg was analysed by Atomic Absorption method. Total preparation and analysing cost per sample amounted to about NOK 145,-.

The Bleka rock samples from 1997 were analysed at the Omac Laboratories Limited in Ireland. All samples were analysed by Omac's Gold Exploration Package: Aux (50g sample): Au + Cu, Pb, Zn, Ag, As, Sb, Bi and Mo.

Drilling program.

A drilling program totalling 2200m comprising of 12 holes from 90 to 450m was planned early 1998. See table below and **Fig no. 23, 24 and 25**. Drill hole no E. Espelid Vein Swarm is located 2.7km NW of Bleka Mine Site, and drill holes no F1 and F2, Blengsdalen Claim area is located 1.1km SSE of Bleka Mine Site.

The drilling program was planned to be carried out during the field season of 1998 with a **total budget of NOK 2.235.000,-**. The cost of the drilling was calculated at NOK 1.452.000,- based on an average quoted metre-price at NOK 660,-.

Planned drill holes 1998

Hole no	Direct.°/Incl.°/Depth(m).	Comments.
A1	141/76/160	Bleka Main Vein (M.V.). Planned to intersect both "sterile" shearing zone and Bleka M.V. To test out the continuity of Bleka M.V.
A2	141/84/215	As above.
B1	168/45/120	Bleka M.V. Planned to intersect both "sterile" shear zone and Bleka M.V. To test out the first part of the ridge towards the NE.
B2	168/65/170	As above.
B3	168/79/220	As above.
C1	161/45/90	Bleka M.V. It is assumed that also this hole will intersect both Bleka M.V. and the shearing zone.
C2	161/73/130	As above.
D1	354/45/100	Bleka M.V. Here it is only assumed intersection of Bleka M.V. since it is located South of the shearing zone.
D2	354/56/200	As above.
E1	151/50/450	Espelid Vein Swarm. Here, it is expected to intersect four mineralized zones of vein swarms in total. The hole is planned to see the development of the mineralization in the area below "The boiling level" (about 580m a.s.l.) which corresponds to the Bleka Mine's level of mineralization.
F1	160/45/150	Blengsdalen. This claim area has the lowest elevation in the concession area (450m a.s.l.), and has returned high gold contents.
F2	160/65/210	As above.

Based on the results and conclusions for the field season of 1998, a new drilling program in two steps has been worked out. The new drilling program is totalling 2.600m which is about 400m more than planned before the 1998 field season.

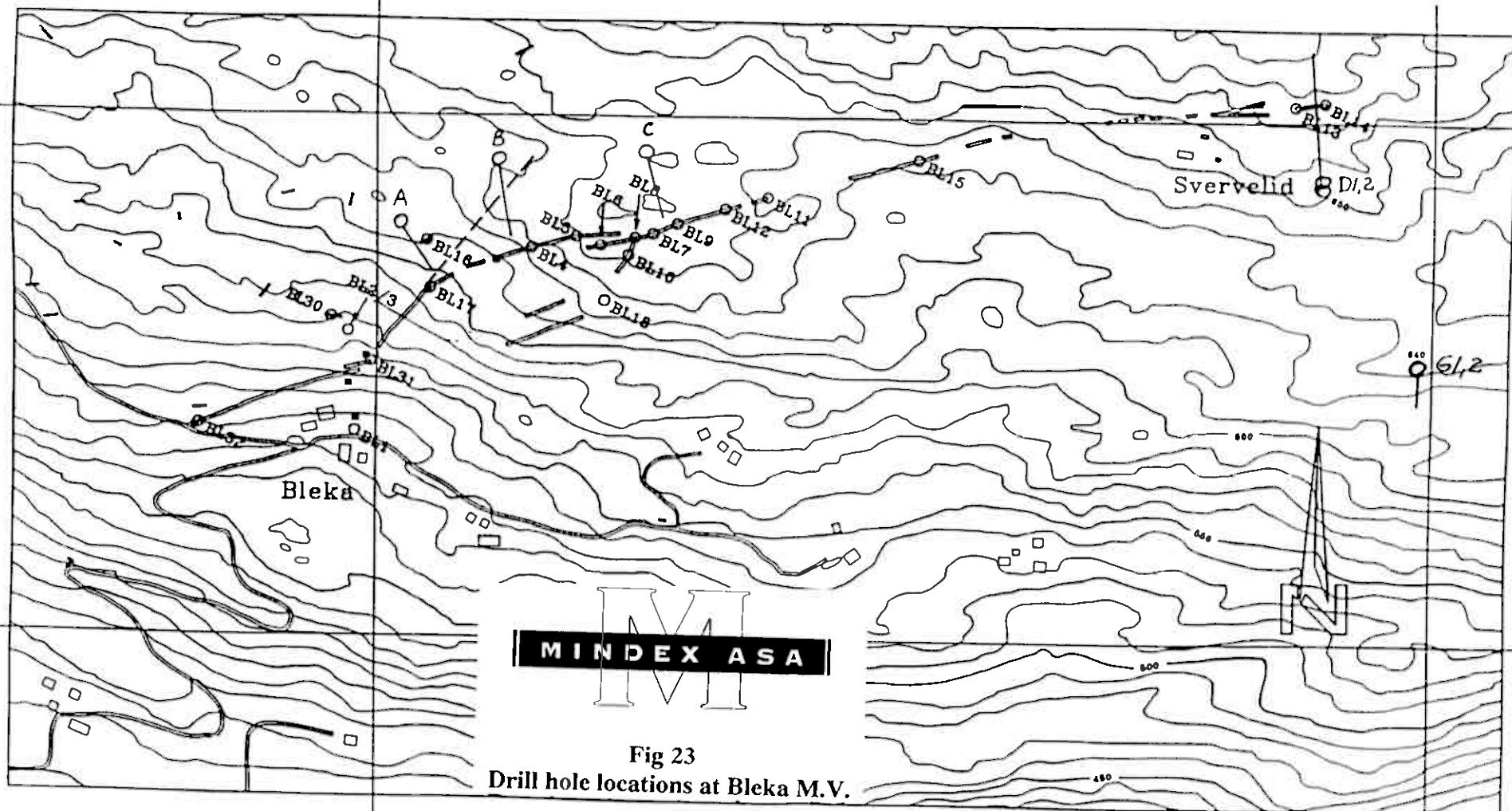


Fig 23
Drill hole locations at Bleka M.V.

- Shear zone
- Quartz veins/kvartsgange
- Trenches/grøfter
- OBL18 Surface samples/overlædesprøver
- Adit entrances/stollleindgange
- A o Proposed drill/hole

Bleka Gold Mine
Telemark, Norway

.75 .76 .77 .78
UTM coordinates/koordinater
Grid zone designation/zonenummer 32V
100,000 m sq. designation/100 km rekt. NW
Scale/målestokk 1:4000
Contour interval/mkvidde 10 m

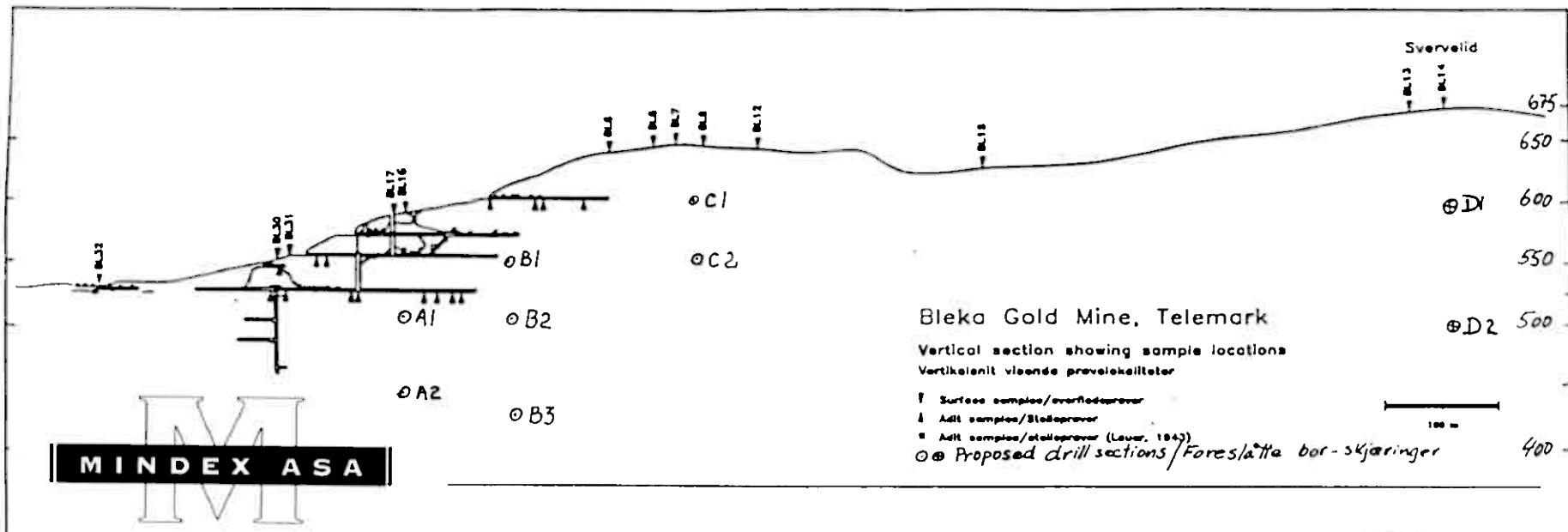
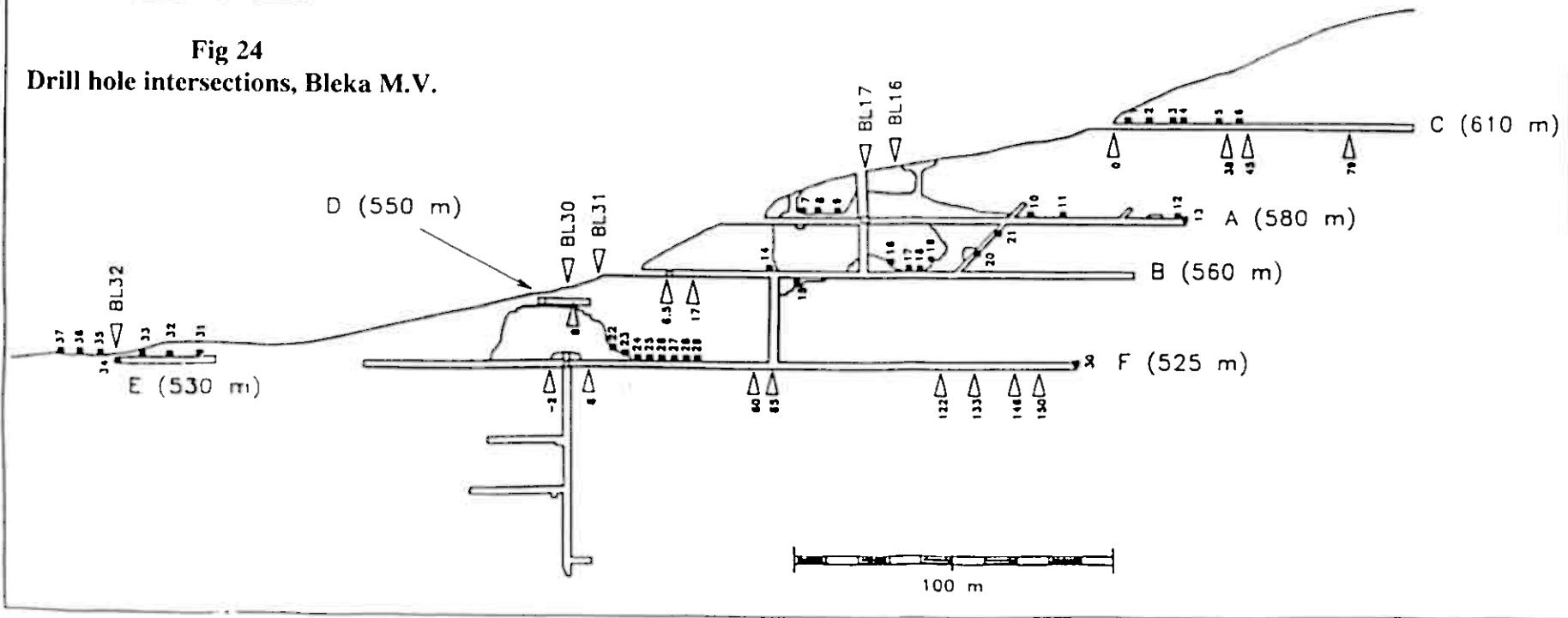
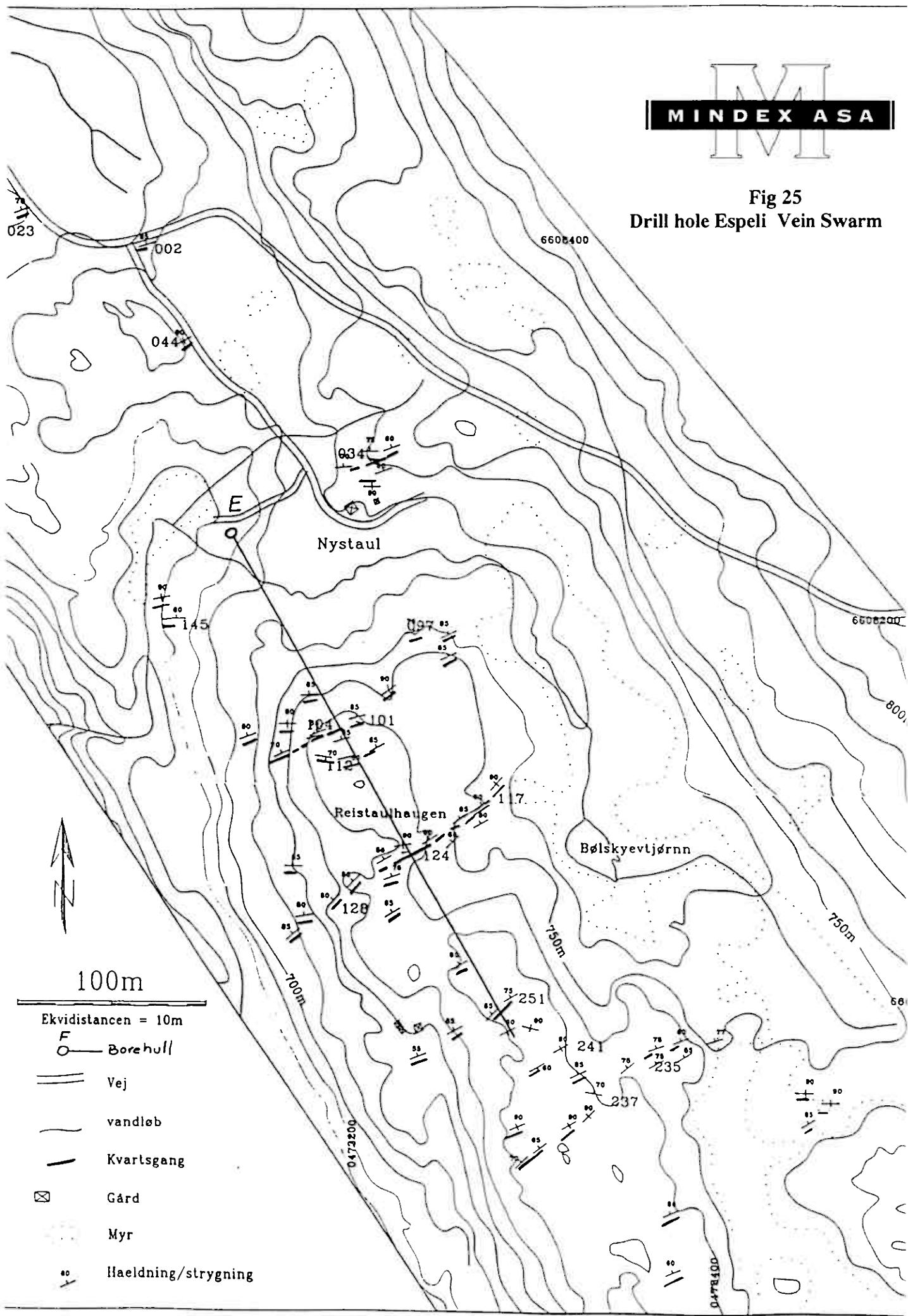


Fig 24
 Drill hole intersections, Bleka M.V.



M
INDEX ASA

Fig 25
Drill hole Espeli Vein Swarm



The field season of 1998 confirms that:

- Bleka Main Vein is still the most promising target, and most of the planned drill holes should be drilled on this structure.
- Surface samples and samples of Bleka type of gold bearing veins from lowest elevated parts of the concession area confirms that richest gold bearing veins are most likely to be found within "the boiling zone". "The boiling zone" is believed to be located at about 580m a.s.l. and below.
- A cluster of six parallel magnetic anomalous zones is located E, N and S of Søndre Bleka farm. In the same area several veins with anomalous gold contents have been registered. Further, in the same area, several fracture zone areas with carbonate deposition at fracture planes are located. It is believed that the current surface of the area is located in the upper parts or above "The boiling zone" for the deposition of the gold. Therefore, it is planned to intersect most of the anomalies as deep as possible with two drill holes, G1 and G2, in one profile totalling about 400m. Exact positioning of the drill holes will be decided after the final VLF-report is completed. Approximate position of the drill holes will be around 300m SE of Sverveli. See Fig 23.
- The planned drilling program of 1998 is proposed to be modified as follows in two steps, the first step inside The Bleka Mine Camp and the second step outside The Bleka Mine Camp Area:
 1. **First step.** The drilling of holes A through D for the Bleka Main Vein should be drilled as planned. In addition, the two proposed holes G1 and G2, also inside the Bleka Mine Camp Area are proposed to be added to the first step. The number of holes for the first step will be 11, totalling about 1800m of core drilling.
 2. **Second step.** In the planned program of 1998, the proposed drill holes E, F1 and F2 at Espelid and Blengsdalen respectively are all located outside The Bleka Mine Camp Area. The result of the first step drilling program is believed to give sufficient data for warranting the execution of the second step or not. The three drill holes of the second step amounts to 810m of core drilling.

The planned drilling program for 1999, the first and the second step, is presented in the two tables below:

**Planned drill holes inside The Bleka Mine Camp,
First step 1999**

Hole no	Direct.°/Incl.°/Depth(m).	Comments.
A1	141/76/160	Bleka Main Vein (M.V.). Planned to intersect both "sterile" shearing zone and Bleka M.V. To test out the continuity of Bleka M.V. VLF-anom at 95N will be intersected.
A2	141/84/215	As above.
B1	168/45/120	Bleka M.V. Planned to intersect both "sterile" shear zone and Bleka M.V. To test out the first part of the ridge towards the NE.
B2	168/65/170	As above.
B3	168/79/220	As above.
C1	161/45/90	Bleka M.V. It is assumed that also this hole will intersect both Bleka M.V. and the shearing zone.
C2	161/73/130	As above.
D1	354/45/100	Bleka M.V. Here it is only assumed intersection of Bleka M.V. since it is located South of the shearing zone.
D2	354/56/200	As above.
G1	≈168/70/150	To intersect combined Mag-VLF-anomalies.
G2	≈168/86/250	In the same profile as G1 to intersect combined Mag-VLF-anomalies as above.

Total planned metres to be drilled in the first step is 1805metres.

Planned drill holes outside The Bleka Mine Camp,

Second step 1999

Hole no	Direct.°/Incl.°/Depth(m).	Comments.
E1	151/50/450	Espeli Vein Swarm. Here, it is expected to intersect four mineralized zones of vein swarms in total. The hole is planned to see the development of the mineralization in the area below "The boiling level" (about 580m a.s.l.) which corresponds to the Bleka Mine's level of mineralization.
F1	160/45/150	Blengsdalen. This claim area has the lowest elevation in the concession area (450m a.s.l.), and has returned high gold contents.
F2	160/65/210	As above.

Planned metres to be drilled in step no two is planned to 810metres. And the two steps together amounts to 2615metres.

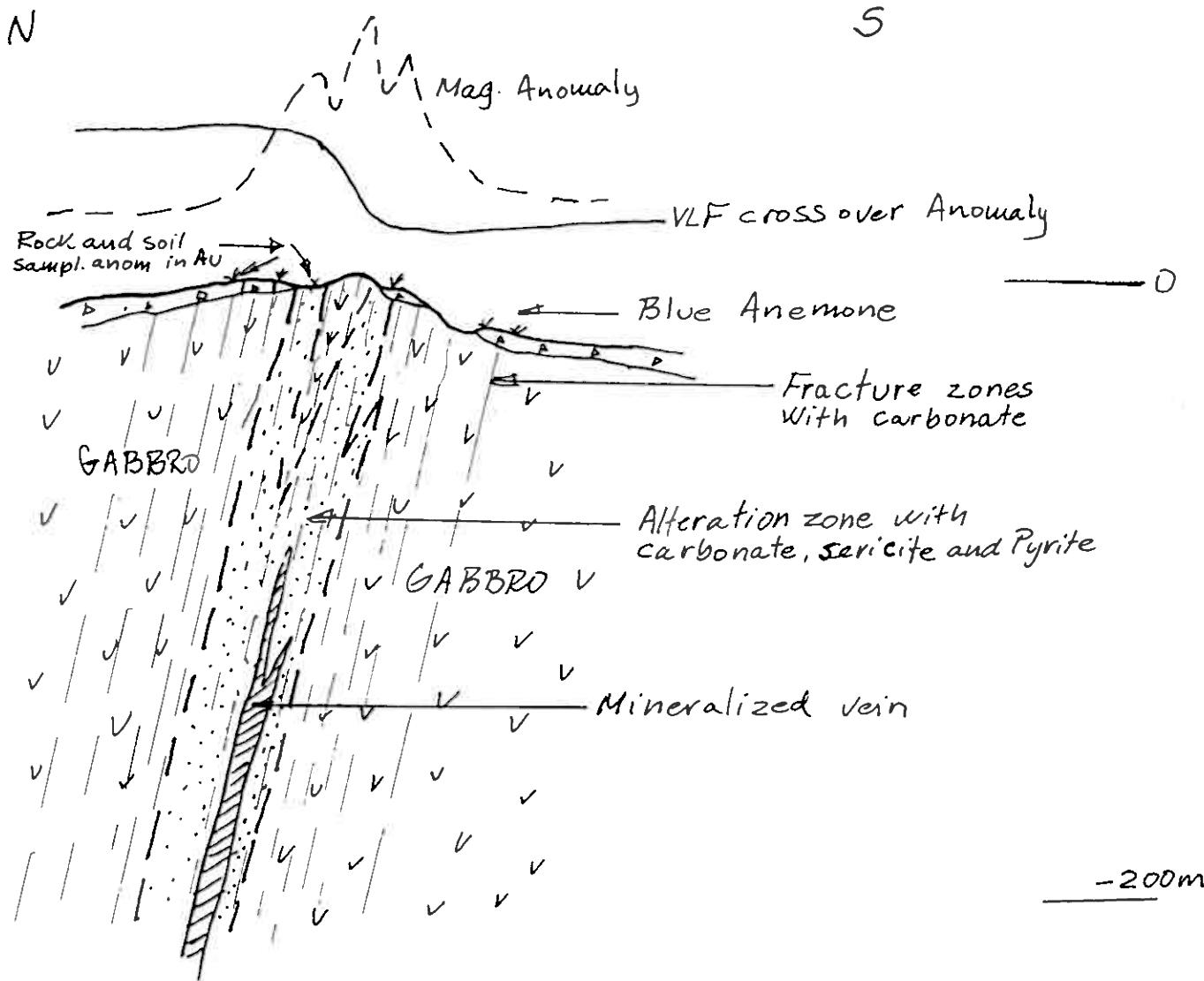
The idea to transfer the three drill holes outside The Bleka Mine Site Area to the second step of drilling, is that the same level of information – especially the rate of gold mineralization below "The boiling level" – should be obtained from the first step of drilling.

If both steps of the drilling program is executed, the total metres drilled will be 2.600, and if the second step can not be warranted based on the results from the first step of the drilling program, the total metres to be drilled will be 1.800.

MINDEX ASA

Fig 26

Idealised section of possible mineralized Vein with combined VLF/Mag anomalies,
Soil samples, Alteration zone and fracture
zone with calcite and Blue Anemone.



Conclusions and recommendations.

Detailed geological, geochemical and geophysical work at the Bleka M.V. confirms its further extension to the ENE. The total length of the Bleka Main Vein can be traced for 1,9km. Further to the ENE of the eastern most combined Mag-VLF and geochemical anomaly on the anomaly trace of The Bleka M.V., a Mag. Anomaly in Bleka meta gabbro may be traced for another 1000metres, making the total length up to about 3,0km. Towards the WSW, the Bleka M.V. runs into a quartzite enveloping the Bleka meta gabbro and fades out.

Sampling of the Bleka M.V. has generally returned low and sub-economic gold contents. Even in samples with bismuthinite, chalcopyrite and galena have returned low gold contents. (Samples no 464, 473, 475 and 476 from Sverveli with Au contents from 0.3 to 0.8ppm). Samples with the same host minerals from the exploited part of Bleka Mine and from Blengsdalen have returned good grades of gold. Most of the sampling of the Bleka M.V. is done in the Eastern and most elevated section. The reason for the low gold contents may be that the Eastern part of the Bleka M.V. is located in an elevated area in the range of the upper level or above the "boiling zone".

During the field seasons of 1997 and 1998 more than 100 quartz-tourmaline veins were located and sampled in the concession area. The veins have strikes at almost all directions, however, three distinct directions may be notified: NNE-SSW, E-W and N-S.

1. The veins with the E-W strike are the ones with the most frequent occurrence of wall rock alterations and the gold content is anomalous in about two thirds of the samples.
2. Veins with strike directions NNE-SSW occur less frequent and only a moderate number of these veins show wall rock alterations and few of these veins are anomalous in gold.
3. Veins with strike in N-S directions show very little wall rock alterations and a very low number of these veins are anomalous in gold.

Two other veins, Barstad vein almost 700m long and Haugstul vein more than 400m in length are parallel to the Bleka M.V. and located north of the Bleka M.V.

Some weak gold anomalies are located in deep soil samples from the Bleka M.V. or in its extension and in other potential areas where wall rock alterations are seen. It is believed that geochemistry may be a tool to locate traces of veins or halos in their vicinity in the Bleka concession area.

Another tool for locating potential areas of interest may be the lime caring plant "Blue Anemone" which is found in amounts in wall rock alteration zones and fracture zones both with carbonates.

The Bleka M.V. as well as other traces of veins and areas with geological indications for veins (like wall rock alterations and fracture zones) have responded to both magnetic and VLF measurements.

The magnetic anomalies in the Bleka concession area are interpreted to being caused by long narrow magnetic bodies often with a sub vertical dip.

In the south part of the area, a cluster of six parallel magnetic anomalies striking ENE-WSW sub parallel to the Bleka M.V. may be traced for 600 to 1300m. Fracture zones, minor quartz-tourmaline-sulphide bearing veins and areas abundant with "Blue Anemone" are often found to be coinciding to the magnetic anomalies. See Fig 26. The figure is an idealised section of

the anomaly case in the Bleka concession area covering a section from the current surface down to the "boiling level" with conditions for depositing of gold. It may be pointed at several examples supporting the idea that the "boiling level" at Bleka is mostly located below the current surface:

- The extraction level of the Bleka old mines is located at a favourable level at around 550m. is believed to be in the upper part of the "boiling level".
- Espelid at 750m, Sverveli at 670m and the eastern part of the Bleka M.V. with high elevated locations are all low in Au
- The westernmost location of Bleka. M.V. no 405 at 525m.a.s.l., location no 403 road cut by Road 134 at 375m.a.s.l. and Blengsdalen claims with the lowest location at 440m.a.s.l. are all containing anomalous contents of gold.
- Blengsdalen Main Vein is not sampled in this study, however, earlier samples have returned economic grades of gold. Visible gold has also recently been reported in the dumps from Blengsdalen Main Vein. The sample returning the highest content of gold at almost 14ppm Au this season was no 483 from Blengsdalen claim C.

A drilling program in two steps totalling 2,600metres is proposed. The major step is the first step (1800m) targeting the Bleka Main Vein with 9 holes and a cluster of Mag. Anomalies with two holes in the southern part of the concession area at 150 and 250m respectively. Bleka Main Vein is regarded as the best target of having core sections of economic grades. The second step of the drilling program is targeting Espelid vein swarm and Blengsdalen area outside the Bleka Mine Camp Area. It comprises of three core holes totalling 800m. The result of the first step of the drilling program is believed to give sufficient data for warranting the execution of the second step or not.

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Encl. no 2

Sample list -Bleka '97

Number	Area	Type	North	West	Alt.	Rock	Strike/dip	Width (av.)	Width (max.)	Loc. no	Description
399-151	BLE	RCH	6606397	475446	32V	Q-VEIN	36/86 SE	2-3 cm	5 cm	2	Quartz-tourmaline-vein with minor sulfides
399-152	BLE	RCH	6606416	475424	32V	Q-VEIN	11/86 E	3 cm	8 cm	3	Quartz-tourmaline-vein with pyrite and chalcopyrite. Sample from 2 veins next to each other.
399-153	BLE	RCH	6606381	475367	32V	Q-VEIN	24/80 E	8 cm	10 cm	4	Quartz-ankerite vein with minor tourmaline and albite
399-154	BLE	RCH	6606381	475367	32V	W-ROCK			ca. 100 cm	4	Wall rock altered amphibolite with pyrite, chalcopyrite and
399-155	BLE	RCH	6606522	475542	32V	Q-VEIN	0/90 E	1-3 cm	15 cm	5	Quartz-tourmaline-albite-vein with minor sulfides. No wall rock alteration. Several small, crossing, E-W striking, barren veins is often seen
399-156	BLE	RCH	6606550	475563	32V	Q-VEIN	206/69 W	2-3 cm	6 cm	6	Quartz-tourmaline-vein with minor sulfides. No wall rock alteration.
399-157	BLE	RCH	6606554	475478	32V	Q-VEIN	204/84 W	5 cm	15 cm	8	Quartz-tourmaline-vein with sulfides (pyrite). Wall rock alteration.
399-158	BLE	RCH	6606554	475478	32V	W-ROCK				8	Wall rock altered fine-grained amphibolite with pyrite and chalcopyrite.
399-159	BLE	RCH	6606515	475483	32V	Q-VEIN	29/87 E	2-4 cm	6 cm	9	Quartz-vein with tourmaline and albite. Sulfides is not observed
399-160	BLE	RGB	6606515	475483	32V	W-ROCK		5 cm	20 cm	9	Silica-albite (?) altered wall rock amphibolite with pyrite.
399-161	BLE	RCH	6606580	475486	32V	Q-VEIN	35/84 SE	3-4 cm	6 cm	8	Quartz-tourmaline vein with minor sulfides. Small (1-2 cm), barren cross-veins striking 142/90 SW is present. Wall rock altered amphibolite with fine-grained sulfides.
399-162	BLE	RCH	6606757	475287	32V	Q-VEIN	280/63 S	2.5 cm	5 cm	13	Quartz-vein with minor tourmaline and sulfides
399-163	BLE	RCH	6606757	475287	32V	W-ROCK			10 cm	13	Wall-rock altered fine-grained amphibolite with minor pyrite.
399-164	BLE	RCH	6606345	475777	32V	Q-VEIN	150/80 SW	5 cm	15 cm	17	Quartz-albite-vein with minor sulfides.
399-165	BLE	RCH	6606345	475777	32V	Q-VEIN	154/85 SW	5 cm	20 cm	17	Quartz-albite-calcite-vein with pyrite and bismuth-minerals ?
399-166	BLE	RCH	6606345	475777	32V	W-ROCK				17	Silicified wall-rock amphibolite with minor pyrite.
399-167	BLE	RCH	6606233	475809	32V	Q-VEIN	122/90 S	15-20 cm	20 cm	21	Quartz-tourmaline-ankerite-vein with pyrite
399-168	BLE	RCH	6606233	475809	32V	W-ROCK				21	Wall-rock altered amphibolite with pyrite and chalcopyrite.
399-169	BLE	RCH	6606233	475809	32V	Q-VEIN	189/36 W	5-6 cm	8 cm	22	Quartz-vein with tourmaline-albite and pyrite
399-170	BLE	RCH	6606233	475809	32V	W-ROCK				22	Silica-albite-calcite-altered wall rock amphibolite with pyrite and chalcopyrite. Satelite-veins with different strike
399-171	BLE	RCH	6606042	475854	32V	Q-VEIN	26/80-90 E	15-17 cm	22 cm	24	Quartz-tourmaline-albite-vein with pyrite
399-172	BLE	RGB	6606015	475780	32V	AMPHI.		20-30 cm	50 cm	25	Fine-grained amphibolite with pyrite and chalcopyrite.
399-173	BLE	RCH	6606042	475854	32V	W-ROCK	265/45 N			24	Albite-altered wall rock amphibolite with calcite, pyrite and chalcopyrite

Encl. no 2

Encl. no 2

399-174	BLE	RCH	6608786	478925 32V Q-VEIN	189/?	3 cm	5 cm	27	Quartz-tourmaline vein with sulfides.
399-175	BLE	RCH	6608786	478925 32V Q-VEIN	190/66 W	7-8 cm	8 cm	28	Quartz-tourmaline vein with sulfides and magnetite. Several satelite-veins with sulfides is seen with similar strike.
399-176	BLE	RGB	6606469	477830 32V Q-VEIN	208/44 W	2-3 cm	5 cm	33	Quartz-albite-vein with tourmaline, pyrite and magnetite. Fine-grained wall rock amphibolite with minor pyrite. Satelite veins present
399-177	BLE	RGB	6606469	477830 32V W-ROCK				33	Fine-grained wall rock amphibolite with pyrite.
399-178	BLE	RCH	6606469	477830 32V Q-VEIN	324/88 NE	1-2 cm	3 cm	34	Quartz-tourmaline-vein with pyrite. Pyrite and magnetite is present in altered wall rock amphibolite. Chip sample of vein + wall rock.
399-179	BLE	RCH	6606474	477377 32V Q-VEIN	314/79 NE 190/66 W	1 cm	4 cm	35	Quartz-tourmaline-albite-veinlets with pyrite and hematite ? Chlorite-altered wall rock amphibolite Grab sample of vein + wall rock.
399-180	BLE	RGB	6606650	477033 32V Q-VEIN				36	Quartz-tourmaline vein with pyrite, chalcopyrite and epidote. Satelite veins striking 90/80-90 S. Wall rock alteration.
399-181	BLE	RGB	6606650	477033 32V W-ROCK	50/?, 90/?			36	Wall rock altered amphibolite with pyrite, chalcopyrite, malachite and chlorite ?
399-182	BLE	RGB	6606581	476874 32V AMPHI	16/82 ESE 295/69 N	< 1 cm	< 1 cm	37	Amphibolite with pyrite-veinlets. Slickensides (87/8 E). Dextral shear-faulted quartz-tourmaline-albit veins (barren) is present.
399-183	BLE	RGB	6606695	477302 32V AMPHI				38	Fine to medium-grained amphibolite with pyrite.
399-184	BLE	RGB		32V AMPHI				39	Fine-grained amphibolite with pyrite and green epidote.
399-185	BLE	RGB	6606898	477749 32V W-ROCK	272/64 N	20 m	30 m	41	Fine-grained amphibolite with sulfide-veinlets, mainly of pyrite and bismuthinite ?
399-186	BLE	RGB	6606898	477749 32V W-ROCK	281/62 N			41	Fine-grained amphibolite with sulfide-veinlets, mainly of pyrite and bismuthinite ?
399-187	BLE	RGB	6606945	477731 32V W-ROCK	285/54 N			42	Altered amfibolit with 3-6 % pyrite and minor chalcopyrite. The sulfides is often seen in small vein-like sheet. Biotite-veins is present.
399-188	BLE	RCH	6606945	477731 32V Q-VEIN	144/84 SW	1 cm	3 cm	41	Quartz-tourmaline vein with minor sulfides. No associated wall-rock alteration is seen. Slickensides (107/30 E) is common present.
399-189	BLE	RCH	6606889	477528 32V Q-VEIN	347/70 E	2-3 cm	5 cm	43	Quartz-tourmaline vein with minor pyrite. No wall rock alteration. Several thin (< 1 cm) veins of pure tourmaline is present with similar strike/dip.
399-190	BLE	RCH	6606883	477504 32V Q-VEIN	168/78 W	1 cm	3 cm	44	Quartz-tourmaline vein with minor sulfides. No wall rock

Encl. no 2

Encl. no 2.

399-191	BLE	RCH	6606864	477396 32V Q-VEIN	278/60 N	10-12 cm	15 cm	45	Quartz-tourmaline vein with pyrite and chalcopyrite.
399-192	BLE	RCH	6606864	477396 32V W-ROCK		ca. 50 cm		45	Ankerite-alteration in wall rock amphibolite containing pyrite and chalcopyrite.
399-193	BLE	RCH	6606447	477447 32V Q-VEIN	204/74 W	4-5 cm	8 cm	46	Quartz-veins with minor tourmaline and sulfides. Several quartz-veins in different directions is present.
399-194	BLE	RCH	6608609	479461 32V Q-VEIN	222/59 N	3 cm	5 cm	31	Quartz-vein with tourmaline and sulfides. Extensive ankerite-alteration in wall rock amphibolite.
399-195	BLE	RGB	6608609	479461 32V W-ROCK	92/65 S			31	Altered wall rock amphibolite with 5-10 % pyrite, minor bismuthinite and chalcopyrite. Biotite-sericite alteration zones is present. Seen next to extensive ankerite-altered wall rock amphibolite containing minor sulfides.
399-196	BLE	RCH	6608609	479461 32V Q-VEIN	252/49 N	4 cm	5 cm	31	Quartz-albite vein with minor chalcopyrite and tourmaline
399-197	BLE	RCH	6606376	474656 32V Q-VEIN	266/64 N	2 cm	2 cm	47	Quartz-tourmaline-ankerite vein with pyrite
399-198	BLE	RCH	6606376	474656 32V Q-VEIN	268/66 N	2 cm	5 cm	48	Quartz-tourmaline vein with sulfides and minor magnetite.
399-199	BLE	RCH	6606209	474751 32V Q-VEIN	300/46 NE	1 cm	1 cm	49	Coarse-grained quartz and calcite vein in silicified amphibolite with pyrite, chalcopyrite, pyrrhotite and magnetite.
399-200	BLE	RGB	6606209	474751 32V SI-ROCK		50 cm	100 cm	50	Silica-calcite altered amphibolite with pyrite. Slightly magnetic
399-201	BLE	RCH	6606479	475708 32V Q-VEIN	210/48	2 cm	5 cm	51	Quartz-vein with tourmaline. No sidewall alteration
399-202	BLE	RCH		32V Q-VEIN	140/70	3 cm	4 cm	54	Quartz-vein with sulphides. Limonite-coated and weakly magnetic sidewall rock.
399-203	BLE	RCH		32V Q-VEIN	195/ca 60	2.5 cm	3 cm	54	Same system as 202. Vein runs 20-30 cm from 202.
399-204	BLE	RCH	6606269	475975 32V Q-VEIN	230/?	3 cm	4 cm	55	Quartz-vein with magnetite and tourmaline.
399-205	BLE	RCH	6606269	475975 32V Q-VEIN	143/60	3-3.5 cm	5 cm	57	Quartz-vein with Fe-Cu-sulphides
399-206	BLE	RCH		32V Q-VEIN	304/63	22 cm	24 cm	62	Quartz-ankerite vein
399-207	BLE	RCH		32V Q-VEIN	220/60	2 cm	4 cm	65	Quartz-ankerite-tourmaline-vein
399-209	BLE	RCH	6606718	477546 32V Q-VEIN	336/70	5 cm	6 cm	72	Quartz-vein with sulphides Wall rock-alteration.
399-210	BLE	RCH	6606900	477768 32V Q-VEIN	150/85	1 cm	2.5 cm	73	Quartz-tourmaline-vein with pyrite. Alteration zone 20-30 cm, rich in pyrite. Grab-sample of wall rock (RGB 220).
399-211	BLE	RGB	6606440	476978 32V W-ROCK				77	Strongly altered zone (max. few meters) in Fe-Cu-mineralized amphibolite. Hornblende megacrysts (> 1cm), pyrite, chalcopyrite, magnetite and bismuthinite ? is present
399-212	BLE	RCH	6606605	477585 32V Q-VEIN	160/80	5 cm	10 cm	86	Weakly mineralized Quartz-vein. Pyrite is present in altered wall rock

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399-213	BLE	RCH	6611324	478275 32V Q-VEIN	220/68	10 cm	15 cm	87	Quartz-tourmaline-vein with Fe- and Fe-Cu-sulphides. Ankerite zone with pyrite and chalcopyrite is present 0.5-1 m each side of the vein.
399-214	BLE	RCH	6610938	478552 32V Q-VEIN	200/60	3 cm	4 cm	88	Quartz-tourmaline vein with abundant pyrite and chalcopyrite
399-215	BLE	RCH	6611324	478275 32V Q-VEIN	205/45	4 cm	6 cm	87	Quartz-tourmaline vein with pyrite, placed in the same zone as RCH-213.
399-216	BLE	RGB	6611324	478275 32V Q-VEIN	220/68	10 cm	15 cm	87	Grab sample of the RCH-213-vein.
399-217	BLE	RGB	6606412	476683 32V W-ROCK				74	Altered amphibolite with pyrite, chalcopyrite and bismuthinite?
399-218	BLE	RGB		32V W-ROCK				90	Altered amphibolite with abundant pyrite. Magnetic
399-219	BLE	RGB	6606625	477031 32V W-ROCK				80	Alteration zone, strongly mineralized with pyrite and chalcopyrite
399-220	BLE	RGB	6606900	477768 32V W-ROCK				73	Grab sample of strongly mineralized alteration zone surrounding the RCH-210 Q-vein
399-221	BLE	RGB		32V W-ROCK				92	Limonite-ankerite zone in amphibolite. Few meters wide. Pyrite and chalcopyrite is present. Strongly magnetic
399-222	BLE	RGB	6606376	476720 32V W-ROCK				75	Mineralized zone in regular medium-coarse grained amphi-bolite. Pyrite and chalcopyrite is present
399-251	BLE	RCH	6606108	474807 32V Q-VEIN	230/72 N	2 cm	7 cm	101	Quartz-tourmaline vein with pyrite and chalcopyrite.
399-252	BLE	RGB		32V Si-ROCK		7 m	10 m	102	Brecciated silica-altered amphibolite with black, vein-like amphibolite containing pyrite and chalcopyrite.
399-253	BLE	RGB	6606025	474969 32V Si-ROCK	74/76 S	50 cm	100 cm	103	Quartz-albite-calcite vein-zone with pyrite and bismuthinite ? in albite-altered wall rock amphibolite. Fracture zone
399-254	BLE	RGB	6606025	474969 32V Si-ROCK	74/76 S	50 cm	100 cm	103	Albite-altered wall rock amphibolite with calcite, pyrite, chalcopyrite and bismuthinite ?

Encl. no 2



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End. no 2.

CERTIFICATE OF ANALYSIS

21/1/98

TO: Mindex ASA, INVOICE: Same

ATTN: J. Petersen

CODE: 399151 to 399293

BATCH NO. EA86

NO. SAMPLES 103

Rock

LOK	LAB. NO.	SAMPLE NO.	Cuppm	Pbppm	Znppm	Agppm	As%	Sbppm	Bippm	Moppm	Au1 Geochem	Repeat Au1 Geochem	
											Auppb	Auppb	
	1	399151	196	183	107	0.5	0.001	-5	-5	5	-3		
	2	399152	90	148	170	0.4	0.001	-5	-5	7	-3		
4	③	399153	25	38	17	0.6	0.001	-5	-5	6	④	(44)	(25.00g)
	4	399154	49	8	176	0.2	-0.001	-5	-5	3	-3		
	5	399155	92	16	87	0.3	0.002	-5	-5	-2	-3		
	6	399156	30	13	25	0.2	0.001	-5	-5	-2	-3		
	7	399157	16	7	87	0.3	0.001	-5	-5	-2	-3		
	8	399158	57	7	182	0.3	0.003	-5	-5	-2	-3		
7	⑨	399159	37	30	140	1.5	0.001	-5	-5	93	⑦	(9)	(25.00g)
	10	399160	54	5	235	-0.2	0.003	-5	-5	7	-3		
	11	399161	17	7	146	-0.2	-0.001	-5	-5	15	-3		
	12	399162	22	12	74	-0.2	-0.001	-5	-5	-2	-3		
	13	399163	36	5	107	-0.2	-0.001	-5	-5	2	-3		
	14	399164	20	11	34	-0.2	-0.001	-5	-5	3	-3		
	15	399165	17	18	43	0.4	-0.001	-5	-5	-2	-3		
	16	399166	46	21	75	0.4	-0.001	-5	-5	-2	-3		
	17	399167	11	8	29	0.3	-0.001	-5	-5	-2	-3		

EA86

OMAC

02-MAR-1998 16:49

DOCT. FRA

MINDEX ASA

TIL

004586139248

S. 05/05

LAB. NO.	SAMPLE NO.	Cuppm	Pbppm	Znppm	Agppm	As%	Sbppm	Bippm	Moppm	Au1 Geochem	Repeat Au1 Geochem	Auppb	Auppb	42/03/98	02-MAR-1998	15:36	FRA	MINDEX ASA	TIL	004586139248	S.04/05
18	399168	35	17	142	0.3	0.001	-5	-5	-2			-3									
19	399169	19	10	43	0.3	-0.001	-5	-5	-2			-3									
20	399170	63	8	135	0.2	-0.001	-5	-5	-2			-3									
21	399171	32	53	42	0.2	-0.001	-5	-5	-2			-3									
22	399172	46	17	80	0.3	-0.001	-5	-5	-2			-3									
23	399173	26	13	117	-0.2	-0.001	-5	-5	6			-3									
24	399174	21	14	36	0.2	-0.001	-5	-5	3			-5 (20.00g)									
25	399175	20	22	27	0.2	-0.001	-5	-5	4			-3									
26	399176	58	6	42	-0.2	-0.001	-5	-5	-2			-3									
27	399177	54	7	37	0.2	-0.001	-5	-5	-2			-3									
28	399178	75	11	94	0.3	-0.001	-5	-5	25			-3									
29	399179	54	7	66	0.2	-0.001	-5	-5	2			-3									
30	399180	1380	24	33	6.5	-0.001	-5	-5	-2			-3									
36	31) 399181	(13450)	17	132	33.9	0.001	-5	-5	-2	(85)		(137) (25.00g)									
	32	399182	1940	2	114	4.7	0.001	-5	-5	2		-3									
	33	399183	238	1	91	0.5	-0.001	-5	-5	2		-3									
	34	399184	142	2	116	0.3	-0.001	-5	-5	3		-3									
	35	399185	150	3	76	0.4	-0.001	-5	-5	-2		-3									
	36	399186	64	1	82	0.2	-0.001	-5	-5	2		-3									
	37	399187	105	1	110	-0.2	-0.001	-5	-5	-2		-3									
	38	399188	127	6	53	0.3	-0.001	-5	-5	-2		-5 (22.00g)									
	39	399189	58	10	24	0.2	-0.001	-5	-5	-2		-3									
	40	399190	36	9	25	0.3	-0.001	-5	-5	-2		-6 (23.00g)									
	41	399191	560	5	15	1.6	-0.001	-5	-5	-2		-3									
	42	399192	90	1	118	0.4	-0.001	-5	-5	-2		-3									
	43	399193	49	4	29	0.2	-0.001	-5	-5	-2		-3									
	44	399194	13	5	36	-0.2	-0.001	-5	-5	-2		-3									
	45	399195	79	4	73	-0.2	-0.001	-5	-5	-2		-3									
	46	399196	39	28	56	0.2	-0.001	-5	-5	-2		-3									
	47	399197	26	5	14	0.2	-0.001	-5	-5	-2		-3									
+8	48) 399198	730	10	55	0.8	-0.001	-5	-5	(18)	(8)		(12) (25.00g)									
	49	399199	72	50	77	1.1	-0.001	-5	-5	3		-3									
	50	399200	62	15	137	-0.2	-0.001	-5	-5	2		-3									
	51	399201	24	10	43	0.3	-0.001	-5	-5	5		-5 (32.00g)									
	52	399202	36	8	43	0.2	-0.001	-5	-5	-2		-3 (43.00g)									
	53	399203	351	14	52	0.6	-0.001	-5	-5	-2		-11 (14.00g)									

LAB. NO.	SAMPLE NO.	Cuppm	Pb ppm	Zn ppm	Ag ppm	As%	Sb ppm	Bi ppm	Mo ppm	Au1 Geochem	Repeat Au1 Geochem
54	399204	86	11	36	0.4	-0.001	-5	-5	-2	-3	Enc no 2.
57	399205	222	273	34	5.6	0.002	-5	(49)	(20)	(18)	(49) (25.00g)
56	399206	75	14	15	0.7	-0.001	-5	-5	-2	-3	
57	399207	36	22	56	0.4	-0.001	-5	-5	-2	-3	
58	399209	47	7	50	0.2	-0.001	-5	-5	-2	-6 (25.00g)	
59	399210	54	8	57	0.3	-0.001	-5	-5	-2	-3	
60	399211	305	3	145	0.6	-0.001	-5	-5	-2	-4 (41.00g)	
61	399212	116	5	127	0.6	-0.001	-5	-5	-2	-3	
62	399213	93	6	84	0.4	-0.001	-5	-5	-2	3	
63	399214	27	20	102	-0.2	-0.001	-5	-5	-2	-3	
64	399215	30	7	46	-0.2	-0.001	-5	-5	-2	-3	
65	399216	46	5	13	0.2	-0.001	-5	-5	-2	-3	
66	399217	39	14	47	0.2	-0.001	-5	-5	-2	-3	
90	399218	218	-1	134	0.6	-0.001	-5	-5	-2	-3	
68	399219	253	3	83	0.9	0.001	-5	-5	-2	(6)	(3) (25.00g)
73	399220	97	55	72	0.6	0.001	-5	-5	-2	-3	
70	399221	47	9	200	0.2	-0.001	-5	-5	-2	(10)	(-3) (25.00g)
71	399222	119	9	87	0.3	-0.001	-5	-5	-2	-3	
72	399228	34	-1	47	-0.2	-0.001	-5	-5	-2	-3	
73	399251	64	51	101	0.6	-0.001	-5	-5	-2	-3	
74	399252	34	13	65	-0.2	-0.001	-5	-5	-2	-3	
75	399253	20	31	175	-0.2	-0.001	-5	-5	-2	-3	
103	399254	78	660	159	1.6	-0.001	-5	-5	-2	(5)	(11) (25.00g)
77	399255	12	8	7	0.2	-0.001	-5	-5	10	-3	
78	399256	148	-1	20	0.2	-0.001	-5	-5	-2	-3	
79	399257	85	2	33	0.2	-0.001	-5	-5	-2	-3	
80	399258	9	-1	19	-0.2	-0.001	-5	-5	-2	-3	
81	399259	87	2	45	-0.2	-0.001	-5	-5	-2	-3	
82	399260	54	-1	24	0.2	-0.001	-5	-5	-2	4	
83	399262	1560	-1	11	0.9	-0.001	-5	-5	-2	-3	
84	399265	182	-1	14	-0.2	-0.001	-5	-5	-2	10	7 (25.00g)
85	399266	5900	-1	46	2.2	-0.001	-5	-5	-2	-3	
86	399267	385	2	10	0.2	-0.001	-5	-5	-2	53	55 (25.00g)
87	399268	382	-1	34	0.3	-0.001	-5	-5	-2	3	
88	399270	54	-1	22	0.2	-0.001	-5	-5	-2	-3	
89	399271	10	-1	22	-0.2	-0.001	-5	-5	-2	-3	

LAB. NO.	SAMPLE NO.	Cuppm	Pbppm	Znppm	Agppm	As%	Sbppm	Bi ppm	Moppm	Au1 Geochem	Repeat Au1 Geochem
										Auppb	Auppb
90	399272	165	-1	46	-0.2	-0.001	.5	.5	-2	.3	
91	399273	860	-1	33	0.5	-0.001	.5	.5	-2	(12)	(25.00g)
92	399274	32	-1	73	0.3	-0.001	.5	.5	-2	-3	
93	399275	11	-1	58	0.3	-0.001	.5	.5	-2	-3	
94	399278	10	-1	45	0.3	-0.001	.5	.5	-2	-3	
95	399279	10	5	49	-0.2	-0.001	.5	.5	-2	-3	
96	399281	60	2	58	-0.2	-0.001	.5	.5	-2	5	
97	399282	7	-1	66	-0.2	-0.001	.5	.5	-2	-3	
98	399283	4	1	22	-0.2	-0.001	.5	.5	-2	(21)	(25.00g)
99	399286	21	-1	23	-0.2	-0.001	.5	.5	-2	-3	
100	399287	23	4	41	-0.2	-0.001	.5	.5	-2	-3	
101	399288	201	-1	26	-0.2	-0.001	.5	.5	-2	-3	
102	399292	24	2	37	-0.2	-0.001	.5	.5	-2	-3	
103	399293	22	8	28	-0.2	-0.001	.5	.5	-2	-3	

Au analysis weight is 50gm except where indicated otherwise in brackets.

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Sample list Bleka 1998

Enclosure no 2

Number	Area	Type	East	North	UTM -E	UTM-N	Rock	Strike/dip	Width (av.)	Width (max)	
399-401	BLE	RCS			476113	6605575	Q-vein	9/80W	0,6m	1,0m	
402	BLE	RCS			476113	6605575	Gabbro	9/80W	0,6m	1,0m	
403	BLE	RCS			476113	6605575	Q-vein	80/St N	0,7m	1,0m	
404	BLE	RGS			476113	6605575	Q-vein	300/StN	10cm	20cm	
405	BLE	RGS	195W	75N	474735	6605985	Vein				
406	BLE	RGS	852E	358S	475816	6606320	Q-vein	82/90N	20cm	30cm	
407	BLE	RCS	200E	675S	475512	6605680	Gabbro	90/90			
408	BLE	RGS	200E	495S	475405	6605810	Gabbro				
409	BLE	RGS	200E	490S	475400	6605805	Q-vein	293/90N		12cm	
410	BLE	RGS	220E	412S	475375	6605870	Q-vein	54/90N	2-10cm	10cm	
411	BLE	RCS	200E	084S	475145	6606117	Q-vein	97/StN	0,5m	0,7m	
412	BLE	RGS	200E	084S	475145	6606117	Anker				
413	BLE	RGS	017W	005S	474927	6606042	BMV				
414	BLE	RCS	200E	225N	474940	6606360	Q-vein	5/St	7cm	10cm	
415	BLE	GRAVEL									
416	BLE	RCS	400E	80N	475190	6606375	Q-vein	56/StNW	80cm	1,0m	
417	BLE	RCS	400E	80N	475190	6606375	Q-vein	56/StNW	80cm	1,0m	
418	BLE	RCS	400E	700S	475680	6605780	Gabbro	82/StN	10m	10m	
419	BLE	RGS	610E	540S	475755	6606035	Q-vein a	281/63N	15cm	15cm	
420	BLE	RGS	616E	548S	475765	6606035	Q-vein b	304/45NE	20cm	20cm	
421	BLE	RGS	610E	558S	475770	6606025	Q-vein c	187/45W	10cm	10cm	
422	BLE	RGS	600E	635S	475795	6605955	Q-vein	150/64SW	6cm	15cm	
423	BLE	RGS	600E	665S	475820	6605920	Q-vein	150/64SW	15cm	20cm	
424	BLE	RGS	710E	700S	475937	6605950	Granite	358/St	0,6m	1,0m	
425	BLE	RGS	710E	700S	475937	6605950	Granite	358/St	0,6m	1,0m	
426	BLE	RGS	670E	680S	475900	6605945	Gabbro				
427	BLE	RGS	600E	840S	475925	6605785	Q-vein	122/St	25cm	25cm	
428	BLE	RGS	530E	600S	475720	6605930	Q-vein a	97/70N	5cm	5cm	
429	BLE	RGS	530E	600S	475720	6605930	Q-vein b	176/72W	40cm	40cm	
430	BLE	RGS			472646	6608720	Pb-Bi-vn		2cm	2cm	
431	BLE	RGS	940E	405S	475925	6606280	Q-vein	356/60N	4cm	4cm	
432	BLE	RGS	940E	405S	475925	6606280	Alter. zon	266/60N	4cm	4cm	
433	BLE	RGS	1200E	1100S	476518	6606010	Gabbro				
434	BLE	RGS	1400E	640S	476420	6606438	Gabbro				
435	BLE	RGS	1200E	1100S	476542	6605970	Q-vein	144/St SW	5cm	5cm	
436	BLE	RGS	1915E	1200S	477165	6606315	Gabbro				

Sample list Bleka 1998

Enclosure no 2

437	FOSEN	RCS									
438	BLE	RCS			474527	6606266	Q-vein	78/St	0,6m		
439	BLE	RGS			474527	6606266	Gabbro				
440	BLE	RGS	970E	820S	476197	6606035	Q-vein?				
441	BLE	RCS	1330E	1050S	476615	6606074	Q-vein	286/72N	2cm	2cm	
442	BLE	RGS	200E	600S	475480	6605720	Granite	359/StE	0,3m	0,4m	
443	BLE	RGS			473463	6606945	Q-vein	222/63NW	8cm	8cm	
444	BLE	RGS			473463	6606945	Gabbro				
445	BLE	RGS	370W	960N	473991	6606534	Q-vein	279/63N	0,3m	0,3m	
446	BLE	RGS	370W	960N	473991	6606534	Gabbro				
447	BLE	RCS	370W	960N	473991	6606534	Q-vein	279/63N	0,3m	0,3m	
448	BLE	RGS	008E	250N	474781	6606254	Q-vein	36/St	0,5m	0,6m	
449	BLE	RGS	008E	250N	474781	6606254	Q-vein	36/St	0,5m	0,6m	
450	BLE	RGS	210E	200N	474968	6606339	Q-vein	200/StW	10cm	10cm	
451	BLE	RGS	255W	235N	474651	6605995	Q-vein	282/63N	8cm	12cm	
452	BLE	RGS	320E	170N	475072	6606392	Q-vein	239/54NW	1,2m	1,5m	
453	BLE	RGS	479E	153S	475410	6606243	Q-vein	80/StW	0,6m	0,6m	
454	BLE	RGS	480E	212S	475496	6606245	Q-vein	32/StW	12cm	30cm	
455	BLE	RGS	390E	150S	475332	6606189	Gabbro				
456	BLE	RGS	390E	150S	475332	6606189	Q-vein	25/St	20cm	25cm	
457	BLE	RGS	404E	156S	475346	6606190	Q-vein	41/St	15cm	20cm	
458	BLE	RGS	421E	188S	475379	6606175	Q-vein	27/St	20cm	20cm	
459	BLE	RGS	421E	188S	475379	6606175	Q-vein	27/St	20cm	20cm	
460	BLE	RGS	421E	188S	475379	6606175	Gabbro				
461	BLE	RGS	518E	180S	475434	6606260	Q-vein	272/54(?)N	0,2m	0,2m	
462	BLE	RGS	518E	180S	475434	6606260	Gabbro				
463	BLE	RGS	518E	180S	475434	6606260	Q-vein				
464	BLE	RGS	852E	358S	475816	6606320	Q-vein	82/StN	5cm	30cm	
465	BLE	RGS	320E	243S	475340	6606072	Q-vein	25/St	2cm	3cm	
466	BLE	RGS	458E	402S	475545	6606035	Q-vein		10cm	15cm	
467	BLE	RGS	563E	368S	475604	6606113	Tourmal	266/81N			
468	BLE	RGS	563E	368S	475604	6606113	Gabbro				
469	BLE	RGS	571E	287S	475553	6606196	Q-vein	167/63W	5cm	8cm	
470	BLE	RGS	610E	579S	475764	6606004	Q-vein(s)				
471	BLE	RGS	790E	335S	475735	6606306	Q-vein	277/StN	8cm	8cm	
472	BLE	RGS	790E	335S	475735	6606306	Gabbro				
473	BLE	RGS	800E	340S	475766	6606312	Q-vein	RW	RW	RW	

Sample list Bleka 1998

Enclosure no 2

474	BLE	RGS	800E	340S	475766	6606312	Gabbro					
475	BLE	RGS	852E	358S	475816	6606320	Q-vein	82/StN	5cm	30cm		
476	BLE	RGS	852E	358S	475816	6606320	Q-vein	82/StN	5cm	30cm		
477	BLE	RGS	610E	579S	475764	6606004	Q-vein(s)					
478	BLE	RGS	175E	120N	474991	6606259	Q-vein	180/59W	10cm	30cm		
479	BLE	RGS			474986	6606259	Q-vein	05/St	2cm	4cm		
480	BLE	RGS	95E	170N	474900	6606248	Q-vein	14/St	2cm	4cm		
481	BLENG	RGS			475230	6604950	Gabbro					
482	BLE	RGS	310E	510S	475506	6605883	Q-vein?					
483	BLENG	RGS			475300	6604875	Q-vein	Flat	2cm	5cm		
484	BLENG	RGS			475310	6604888	Q-vein	295/80	20cm	20cm		
485	BLE	RGS	310E	510S	475506	6605883	Q-vein	RW	RW	RW		
486	BLE	RGS	300E	68S	475212	6606193	Gabbro					
487	BLE	RGS	95E	160N	474905	6606240	Gabbro					
488	BLE	RGS			474653	6605856	Q-vein	239/45	10cm	20cm		
489	BLE	RGS			474653	6605856	Granite					
490	BLE	RGS	1980E	1130S	477180	6606420	Gabbro					

	Description
399-401	Quartz vein with pyrite. Feldspar and silisified wall rock
402	Gabbro altered to feldsp and sil. Rock with py, mt and q-stringers.
403	Continuation of vein from 401(?)
404	Some py in contact of vein. Wallrock strongly magnetic, but unmagn close to vein.
405	Bleka Main Vein.
406	Bleka MV. Up to 1m alter zone with py, ank, cer, cpy. See 464,475,476
407	Fractured zone in gabbro with magnetite.
408	Massive Gabbro weakly sheared with magnetite
409	Q-vein (lense) with about 30% py.
410	4 Q-veins with py, cpy, MoS2. Alt 0-10cm with cer, chl.
411	Parallel vein to BMV. Ank, Q, tourm. Alter about 0,5m
412	Ankerite from same vein as avove (411).
413	From dumps of BMV adit D.
414	Q, tourm, ankerite vein with MoS2?
415	Test sample Frank Kleven, Notodden
416	Quartz vein with pyrite. No alterations in wall rock. 16ppmBi
417	Contact zone of vein 416 with py, ank, quartz
418	Magn anom in strongly sheared gabbro. Carbonate in shear planes. Py, Mt.
419	Quartz, tourm, anker, with tace Py, Cpy, rutile. Alter 20cm cer, ank, py.
420	A 2m long lense like 419. Sample from alt zone with cer, carb,py.
421	Vein c with mass Q with tr Cpy and tourm cuts 3 older Q, tourm veins 322/63E.
422	Q-vein (lense) with some py.
423	In mag anom Q-vein with Cpy, Malach, Pt, Bi, Pb, reddish q.
424	Granitic vein a: Py and a little Mo,Bi
425	Granitic vein b: Py and a little Mo,Bi
426	VERY high mag anom in gabbro. Carb veins
427	Barren type Quartz vein
428	Crossing Quartz-vein with abundant py
429	Q-vein with Cpy, Py, Bi, Tourm.
430	Quartz-galena-Bi-vein in quartzite
431	Bleka MV with Py, Gn and (Bi). Alt zone 1m with Cer, Carb, Py, Cpy, Mt.
432	Alt zone 1m with Cer, Carb, Py, Cpy, Mt.
433	Fractured zone, 81/St. in gabbro with magnetite with Py, rust, Carb and a little Q.
434	Gabbro weakly fractured 265/St.N, Alt. Carb.
435	Q-vein dominated by tourmaline
436	Concentration of Mt, Py, Po and Cpy. Not on map.

437	Sample from possible auriferous zone with Fe-sulph.
438	Quartz vein with a little ankerite. No Sulph. Alt zone 5-30cm.
439	Alter zone 5-30 cm from vein above with Anker. and Cer.
440	1sq.m outer with Q, Anker, Py, trace Cpy.
441	Small q-vein with abundant Cpy. Also Py and Tourn.
442	Arcoses with granitic vein. Rusty spots with Py, Cpy and trace Gn.
443	Quartz, Tourn, Py
444	Wall rock with py.
445	Grab sample from Barstad claim dumps with Q, Py, Tourn, Ank, Cpy(?)
446	From altered gabbro with Py, ank Cer. Alter zone about 1m.
447	Rock chip sample across Barstad vein
448	Sample from N side of vein with Qxx, Calcite. "Bulls-Q"
449	Sample from S side of vein with Qxx, alt wallrock 10-20cm, Tourn, cer, py.
450	Q, Tourn(coarsegr),Py. Bleached alt zone 2-3cm.
451	Q, Py and a little tourn.
452	Large Q-vein with alter fragm of Cer, Chlor, Calcite and Qxx. Bullsq type
453	Bleka main vein. Quartz-ankerite-coarse musk. Trace Cpy
454	Q-Tourn with pockets up to 30cm tourn. Alt zone with Py,Cpy,Tourn 20cm
455	Alter zone 1m at each side of vein. Py, Ank, ser.
456	Folded Q-vein with tourn. One m alt, see above.
457	Quartz, Tourn, a little Py and Cpy. About 10cm alt zone. Strong fract 266/StN
458	Massive Tourn-Q-vein
459	Massive Tourn-Q-vein
460	Alt Zone with Py, Q, Tourn and Cpy.
461	Bleka MV with Q, Tourn, Py, Sl...
462	Alter zone more than 0,5m with Anker, Ser, Py++
463	Rich vein matr from dump with Ank, Tourn, Cpy, Py, Bi?,Rutile?
464	Bleka MV with Q, Py, Ank, Tourn,Bi,Gn. Alt zone 1m with anker,py, cer.
465	Quartz-tourn-veins (two, 3m apart) with Py.
466	Lense-shaped Q-tourmaline body 1m with Ank, Py, Bi(?)
467	Tourn-pocket 40x100cm in a 1m thick granitic sill.
468	Altered zone about 30cm with Py, Carb, Cer. Rusty.
469	Q-Tourn vein with Py and trace Cpy. Granitic appearance.
470	Boulders with veins with Q, Carb,Py. In old VLF-anom. Blue Anemone!
471	Bleka MV,Sverveli well. Sample from dump with Q, Ank, Py, Cpy
472	Alt gabbro from dump above with Ank, Ser, Py, tr Cpy.
473	Quartz-carb vein with Py, Cpy, Bi and some altered wallrock

Sample list Bleka 1998

Enclosure no 2

474	Altered Gabbro. Cer, Ank, Py-alteration.
475	Bleka MV from dump.Py, Cpy, Gn, Bi, Q and Carb.
476	Bleka MV from dump.Py, Cpy, Gn, Bi, Q and Carb.
477	Boulders with veinswith Q, Carb,Py. In old VLF-anom. Blue Anemone!
478	Quartz-Alb-vein with trace Py.
479	Two Q-tourm-veins. 0,8m in distance.
480	Quartz-Tourm-vein with trace Py. Strong fract 258/StN
481	Alt gabbro with two dir of fissures: 72/St and 316/70E (Youngest).
482	Float with Q, Py, Mt, Pink Carb, epidote.
483	Flatlying quartz-Py-cpy-carb-veins and lense (RW)
484	Quartz tourm.-chlorite vein with Carb -sericite alter. Of wall rock.(RW)
485	Quartz vein with feldsp, amph, Py, Carb, Mt. (RW)
486	Bleka MV massive alt with Cer, Py, Ank. (=VLF4/68S) 1m alt.
487	Fract Alt Gabbro 258/63N (=VLF2/160N)
488	Vein matr and wall rock with Py, Cpy, Bi, Carb. Little alt.Granite and Gabb mix
489	Wall rock granite with Py.
490	Rusty gabbro with Py, Cpy and Mt.

Element	Area	Loc	UTM-E	UTM-N	Au30	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb
Units		No	meter	meter	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Det.Lim.					5	0,2	1	2	1	1	1	1	0,2	5	5	5
	BLEKA	399401	476,113	6605,575	13	< 0,2	5	11	14	29	6	4	< 0,2	< 5	< 5	< 5
	BLEKA	399402	476,113	6605,575	< 5	< 0,2	4	5	15	5	6	4	< 0,2	< 5	< 5	< 5
	BLEKA	399403	476,113	6605,575	212	< 0,2	3	6	23	9	5	6	< 0,2	< 5	< 5	< 5
	BLEKA	399404	476,113	6605,575	16	< 0,2	1	10	75	2	4	20	0,5	< 5	7	< 5
	BLEKA	399405	474,735	6605,985	318	5	1824	2325	322	2	15	21	6,5	6	< 5	< 5
	BLEKA	399406	475,816	6606,320	72	83,6	1338	3193	54	5	13	14	5,7	194	< 5	< 5
	BLEKA	399407	475,512	6605,680	< 5	0,6	47	41	155	2	4	15	< 0,2	< 5	6	< 5
	BLEKA	399408	475,405	6605,810	< 5	< 0,2	17	17	126	< 1	11	31	< 0,2	< 5	< 5	< 5
	BLEKA	399409	475,400	6605,805	18	1,1	240	33	125	20	11	62	0,4	< 5	35	< 5
	BLEKA	399410	475,375	6605,870	52	0,3	87	24	60	72	12	26	< 0,2	< 5	9	< 5
	BLEKA	399411	475,145	6606,117	220	< 0,2	207	15	23	3	12	4	0,6	< 5	< 5	< 5
	BLEKA	399412	475,145	6606,117	18	2	349	103	103	1	28	18	0,7	< 5	< 5	< 5
	BLEKA	399413	474,927	6606,042	90	1,4	231	30	15	3	45	61	0,4	28	23	< 5
	BLEKA	399414	474,940	6606,360	34	0,5	218	31	65	16	26	34	< 0,2	< 5	68	< 5
	TROMS	399415			< 5	< 0,2	5	7	41	3	5	7	< 0,2	< 5	< 5	< 5
	BLEKA	399416	475,190	6606,375	< 5	6,2	6	335	27	3	10	5	0,4	14	< 5	< 5
	BLEKA	399417	475,190	6606,375	< 5	< 0,2	4	5	39	4	9	10	< 0,2	< 5	< 5	< 5
	BLEKA	399418	475,680	6605,780	< 5	< 0,2	18	15	135	1	7	26	< 0,2	< 5	< 5	< 5
	BLEKA	399419	475,755	6606,035	6	< 0,2	61	58	55	2	35	13	0,3	< 5	9	< 5
	BLEKA	399420	475,765	6606,035	< 5	< 0,2	31	12	24	3	29	6	< 0,2	< 5	8	< 5
	BLEKA	399421	475,770	6606,025	< 5	< 0,2	6	5	6	2	8	2	< 0,2	< 5	< 5	< 5
	BLEKA	399422	475,795	6605,955	< 5	0,5	64	71	32	21	43	70	0,4	< 5	12	< 5
	BLEKA	399423	475,820	6605,920	47	3,9	62	104	4	4	8	8	< 0,2	38	< 5	< 5
	BLEKA	399424	475,937	6605,950	40	1,3	807	37	34	201	12	52	0,5	19	47	< 5
	BLEKA	399425	475,937	6605,950	21	1,9	918	35	30	65	10	54	0,5	18	39	< 5
	BLEKA	399426	475,900	6605,945	< 5	< 0,2	4	4	146	2	25	27	0,3	< 5	< 5	< 5
	BLEKA	399427	475,925	6605,785	< 5	< 0,2	6	10	5	2	5	2	< 0,2	< 5	< 5	< 5
	BLEKA	399428	475,720	6605,930	29	2	628	25	8	3	76	57	0,3	< 5	96	< 5
	BLEKA	399429	475,720	6605,930	21	2,3	253	116	11	4	23	28	0,2	9	27	< 5
	BLEKA	399430	472,646	6608,720	1455	1903,3	24	62600	8	7	20	9	3,8	3790	< 5	< 5
	BLEKA	399431	475,925	6606,280	13	16,9	114	1086	57	4	21	42	1,4	33	5	< 5
	BLEKA	399432	475,925	6606,280	29	4,4	451	286	56	2	26	54	2,6	5	9	< 5

	BLEKA	399433	476,518	6606,010	12	0,3	39	14	92	< 1	25	51	< 0,2	< 5	9	< 5
	BLEKA	399434	476,420	6606,438	8	< 0,2	19	10	58	3	27	38	0,4	< 5	9	< 5
	BLEKA	399435	476,542	6605,970	< 5	< 0,2	2	13	79	7	26	15	< 0,2	< 5	< 5	< 5
	BLEKA	399436	477,165	6606,315	< 5	0,6	418	7	39	< 1	77	69	< 0,2	< 5	6	< 5
	FOSEN	399437	546,800	7043,800	< 5	0,3	160	23	204	13	125	23	0,6	< 5	< 5	< 5
	BLEKA	399438	474,527	6606,266	13	< 0,2	13	6	43	5	11	2	< 0,2	< 5	< 5	< 5
	BLEKA	399439	474,527	6606,266	< 5	< 0,2	22	11	127	10	83	38	< 0,2	< 5	< 5	< 5
	BLEKA	399440	476,197	6606,035	< 5	< 0,2	8	58	19	4	6	2	< 0,2	< 5	< 5	< 5
	BLEKA	399441	476,615	6606,074	< 5	0,4	258	31	63	5	38	25	< 0,2	< 5	< 5	< 5
	BLEKA	399442	475,480	6605,720	83	3,2	412	244	4	3	4	5	< 0,2	< 5	13	< 5
	BLEKA	399443	473,463	6606,945	< 5	< 0,2	89	7	53	3	5	22	< 0,2	< 5	8	< 5
	BLEKA	399444	473,463	6606,945	5	0,2	202	13	82	3	6	38	< 0,2	< 5	6	< 5
	BLEKA	399445	473,991	6606,534	< 5	0,7	192	51	19	14	47	166	< 0,2	5	66	< 5
	BLEKA	399446	473,991	6606,534	38	< 0,2	29	12	58	70	39	319	0,4	< 5	94	< 5
	BLEKA	399447	473,991	6606,534	< 5	< 0,2	8	6	6	6	7	6	< 0,2	< 5	< 5	< 5
	BLEKA	399448	474,781	6606,254	< 5	< 0,2	6	2	30	3	13	10	< 0,2	< 5	< 5	< 5
	BLEKA	399449	474,781	6606,254	< 5	< 0,2	2	15	99	6	7	30	< 0,2	< 5	< 5	< 5
	BLEKA	399450	474,968	6606,339	< 5	< 0,2	84	6	22	3	12	21	< 0,2	< 5	12	< 5
	BLEKA	399451	474,651	6605,995	< 5	< 0,2	43	10	59	2	10	49	< 0,2	< 5	7	< 5
	BLEKA	399452	475,072	6606,392	< 5	< 0,2	3	< 2	3	1	4	1	< 0,2	8	< 5	< 5
	BLEKA	399453	475,410	6606,243	27	0,7	129	27	72	7	15	20	0,8	< 5	< 5	< 5
	BLEKA	399454	475,496	6606,245	14	< 0,2	146	7	32	10	50	27	< 0,2	< 5	25	< 5
	BLEKA	399455	475,332	6606,189	10	< 0,2	50	7	163	3	36	41	0,2	< 5	< 5	< 5
	BLEKA	399456	475,332	6606,189	145	0,5	11	22	47	13	16	9	< 0,2	< 5	< 5	< 5
	BLEKA	399457	475,346	6606,190	11	< 0,2	6	18	76	3	22	11	< 0,2	< 5	< 5	< 5
	BLEKA	399458	475,379	6606,175	10	0,3	74	15	68	10	21	20	0,3	< 5	12	< 5
	BLEKA	399459	475,379	6606,175	11	0,3	116	23	49	11	18	13	0,3	< 5	8	< 5
	BLEKA	399460	475,379	6606,175	6	0,4	125	18	101	7	31	34	0,6	< 5	18	< 5
	BLEKA	399461	475,434	6606,260	15	5,1	3	171	35	2	7	4	0,6	10	< 5	< 5
	BLEKA	399462	475,434	6606,260	8	0,2	22	13	72	1	15	30	0,4	< 5	< 5	< 5
	BLEKA	399463	475,434	6606,260	40	2,5	1000	23	42	1	9	2	0,7	10	< 5	< 5
	BLEKA	399464	475,816	6606,320	790	230	5033	11900	95	5	25	29	15,5	443	< 5	< 5
	BLEKA	399465	475,340	6606,072	12	0,7	59	48	59	2	59	21	< 0,2	< 5	< 5	< 5
	BLEKA	399466	475,545	6606,035	10	< 0,2	10	12	7	3	14	3	< 0,2	< 5	< 5	< 5

Fe %	Mn ppm	Te ppm	Ba ppm	Cr ppm	V ppm	Sn ppm	W ppm	La ppm	Al %	Mg %	Ca %	Na %	K %	Sr ppm	Y ppm	Ga ppm	Li ppm
0,01	1	10	1	1	1	20	20	1	0,01	0,01	0,01	0,01	0,01	1	1	2	1
1,1	89	< 10	61	235	3	< 20	< 20	6	0,19	0,05	0,05	0,03	0,04	3	3	< 2	1
0,82	180	< 10	110	224	4	< 20	< 20	21	0,36	0,09	0,05	0,09	0,07	4	9	< 2	2
2,6	326	< 10	19	151	10	< 20	< 20	6	0,7	0,44	2,13	0,01	0,03	25	12	2	8
11,2	516	< 10	14	17	27	< 20	21	38	1,44	0,87	1,94	0,02	0,74	35	38	5	18
5,51	3610	< 10	16	73	32	< 20	< 20	9	1,19	2,32	9,77	0,02	0,03	212	17	2	12
3,28	887	< 10	37	184	17	< 20	< 20	4	0,46	0,55	1,11	0,03	0,07	23	4	< 2	5
9,41	692	< 10	311	29	35	< 20	< 20	22	2,46	1,78	1,44	0,04	1,06	38	32	8	45
8,69	538	< 10	464	24	96	< 20	< 20	25	2,49	1,76	2	0,06	1,46	32	32	8	28
13,7	920	< 10	27	63	68	< 20	58	14	2,39	1,44	1,76	0,02	0,43	43	20	6	13
4,19	563	< 10	213	252	92	< 20	< 20	4	1,61	0,87	0,47	0,03	0,4	11	8	5	13
2,38	1940	< 10	45	180	33	< 20	< 20	6	0,47	0,3	0,24	0,03	0,07	5	6	< 2	4
8,37	3157	< 10	140	62	207	< 20	< 20	10	2,68	2,13	1,97	0,03	0,32	26	13	8	24
4,06	1811	< 10	7	204	5	< 20	< 20	< 1	0,19	0,92	4,8	< 0,01	< 0,01	55	4	< 2	2
7,92	373	< 10	55	111	103	< 20	< 20	3	2,26	1,47	0,53	0,02	0,13	6	6	4	34
2,32	789	< 10	147	86	19	< 20	< 20	5	0,8	0,3	0,55	0,12	0,29	29	5	< 2	4
2,02	240	< 10	14	363	27	< 20	< 20	5	0,73	0,4	0,28	< 0,01	0,08	5	8	< 2	13
3,08	306	< 10	20	154	49	< 20	< 20	2	1,17	0,59	0,27	< 0,01	0,09	3	7	2	28
9,66	777	< 10	385	49	98	< 20	< 20	30	2,93	2,09	2,57	0,05	1,21	30	36	9	40
3,55	2126	< 10	77	69	20	< 20	< 20	55	0,77	0,69	2,01	0,04	0,09	25	13	< 2	5
1,69	610	< 10	35	567	11	< 20	30	2	0,38	0,2	0,3	0,02	0,06	4	3	< 2	3
0,57	83	< 10	4	239	4	< 20	< 20	< 1	0,09	0,07	0,05	0,01	< 0,01	1	< 1	< 2	< 1
6,19	297	< 10	50	242	46	< 20	410	2	1,09	0,64	0,92	0,05	0,11	48	6	< 2	7
0,82	47	< 10	8	348	< 1	< 20	< 20	< 1	< 0,01	< 0,01	0,03	0,01	< 0,01	3	< 1	< 2	< 1
4,13	333	< 10	29	151	26	< 20	< 20	24	0,91	0,52	0,45	0,1	0,03	14	12	< 2	8
3,68	351	< 10	19	75	21	< 20	< 20	21	0,84	0,5	0,51	0,08	0,02	15	13	< 2	7
11,1	576	< 10	18	37	359	< 20	< 20	8	3,01	2,48	2,04	0,02	0,03	29	10	9	34
0,38	71	< 10	8	164	2	< 20	< 20	< 1	0,04	0,02	0,01	0,01	0,01	2	< 1	< 2	< 1
2,24	62	< 10	9	251	2	< 20	< 20	2	0,03	< 0,01	0,01	0,01	0,01	4	< 1	< 2	< 1
1,41	100	< 10	11	512	10	< 20	28	< 1	0,15	0,11	0,18	0,02	0,01	8	1	< 2	1
3,93	51	89	25	454	2	< 20	< 20	3	0,09	< 0,01	< 0,01	0,02	0,05	2	2	< 2	< 1
7,71	821	< 10	61	298	82	< 20	< 20	4	0,59	0,35	0,61	0,03	0,11	21	7	< 2	4
11,2	1341	< 10	28	79	83	< 20	< 20	2	0,44	1,67	4,44	0,04	0,13	270	9	< 2	4

432

467

490

401

Nb ppm	Sc ppm	Ta ppm	Ti %	Zr ppm
1	5	10	0,01	1
< 1	< 5	< 10	< 0,01	8
< 1	< 5	< 10	< 0,01	22
< 1	< 5	< 10	0,1	< 1
< 1	7	< 10	0,22	< 1
< 1	7	< 10	0,07	< 1
< 1	< 5	< 10	< 0,01	7
< 1	10	< 10	0,13	< 1
< 1	6	< 10	0,08	< 1
< 1	15	< 10	0,2	< 1
< 1	5	< 10	0,17	< 1
< 1	< 5	< 10	0,07	< 1
< 1	17	< 10	0,13	< 1
< 1	< 5	< 10	< 0,01	< 1
< 1	8	< 10	0,32	< 1
< 1	< 5	< 10	0,18	< 1
< 1	< 5	< 10	0,06	< 1
< 1	< 5	< 10	0,12	< 1
< 1	14	< 10	0,06	< 1
< 1	< 5	< 10	0,05	< 1
< 1	< 5	< 10	0,03	< 1
< 1	< 5	< 10	< 0,01	< 1
< 1	< 5	< 10	0,06	< 1
< 1	< 5	< 10	< 0,01	< 1
< 1	< 5	< 10	0,03	8
< 1	< 5	< 10	0,03	8
< 1	15	< 10	0,4	< 1
< 1	< 5	< 10	< 0,01	< 1
< 1	< 5	< 10	0,01	< 1
< 1	< 5	< 10	0,02	< 1
< 1	< 5	< 10	< 0,01	5
< 1	8	< 10	0,06	< 1
< 1	14	< 10	0,01	< 1

433

< 1	12	< 10	0,74	< 1
< 1	7	< 10	0,1	< 1
< 1	7	< 10	0,25	< 1
< 1	< 5	< 10	0,49	< 1
< 1	6	< 10	0,23	< 1
< 1	< 5	< 10	< 0,01	< 1
8	12	< 10	0,15	< 1
< 1	< 5	< 10	< 0,01	35
5	6	< 10	0,15	2
1	< 5	< 10	0,01	15
5	5	< 10	0,17	3
5	8	< 10	0,18	2
3	< 5	< 10	< 0,01	7
6	7	< 10	0,05	9
< 1	< 5	< 10	< 0,01	11
2	< 5	< 10	0,03	< 1
6	10	< 10	0,1	1
3	< 5	< 10	0,18	1
3	< 5	< 10	0,06	1
6	< 5	< 10	< 0,01	< 1
2	8	< 10	0,09	< 1
1	< 5	< 10	0,15	< 1
12	19	< 10	0,27	< 1
2	< 5	< 10	0,05	< 1
2	< 5	< 10	0,04	< 1
3	7	< 10	0,22	< 1
1	< 5	< 10	0,11	< 1
7	15	< 10	0,22	< 1
< 1	12	< 10	0,02	< 1
5	13	< 10	0,05	< 1
< 1	15	< 10	0,03	< 1
< 1	< 5	< 10	< 0,01	< 1
< 1	< 5	< 10	0,13	< 1
< 1	< 5	< 10	< 0,01	< 1

466

< 1	< 5	< 10	< 0,01	< 1
< 1	< 5	< 10	< 0,01	< 1
2	5	< 10	0,17	< 1
2	< 5	< 10	0,07	< 1
< 1	6	< 10	0,02	< 1
4	11	< 10	0,06	< 1
< 1	7	< 10	0,02	< 1
5	12	< 10	0,05	< 1
< 1	8	< 10	< 0,01	< 1
< 1	6	< 10	< 0,01	< 1
< 1	< 5	< 10	0,01	< 1
2	< 5	< 10	0,05	< 1
< 1	< 5	< 10	0,04	< 1
< 1	< 5	< 10	0,07	< 1
< 1	5	< 10	0,06	< 1
6	5	< 10	0,42	< 1
< 1	< 5	< 10	0,01	< 1
< 1	< 5	< 10	0,04	< 1
2	< 5	< 10	0,05	< 1
< 1	< 5	< 10	< 0,01	42
17	20	< 10	0,15	< 1
< 1	< 5	< 10	0,04	< 1
< 1	< 5	< 10	0,04	< 1
13	6	< 10	0,1	< 1

432

433

9,74	847	< 10	16	17	245	< 20	< 20	4	2,46	1,93	2,43	0,08	0,05	38	7	7	26
5,65	2278	< 10	140	27	64	< 20	< 20	13	1,34	0,8	1,34	0,03	0,27	29	18	< 2	12
3,63	678	< 10	50	226	74	< 20	< 20	< 1	1,72	1,33	1,63	0,12	0,22	35	8	4	24
11,3	217	< 10	10	15	601	< 20	< 20	< 1	0,61	0,6	0,59	0,03	0,02	3	2	3	1
8,78	2361	< 10	26	266	232	< 20	< 20	11	3,17	2,25	1,12	0,09	1,73	39	10	4	23
0,77	81	< 10	3	310	< 1	< 20	< 20	2	0,03	0,02	0,02	0,01	< 0,01	2	< 1	< 2	< 1
7,63	1060	< 10	273	58	137	< 20	< 20	12	3,49	2,84	2,11	0,03	0,83	30	11	< 2	37
1,04	493	< 10	37	134	4	< 20	< 20	27	0,33	0,15	0,24	0,08	0,05	4	6	< 2	3
4,53	369	< 10	262	266	51	< 20	< 20	6	1,98	1,51	0,66	0,06	0,57	12	10	< 2	19
1,78	53	< 10	41	92	1	< 20	< 20	7	0,29	0,04	0,15	0,16	0,05	7	5	< 2	< 1
5,06	293	< 10	169	132	30	< 20	744	14	1,39	0,82	0,99	0,05	0,22	14	21	< 2	8
8,58	511	< 10	67	43	42	< 20	< 20	21	2,36	1,38	1,55	0,05	0,27	17	30	< 2	15
9,09	2427	< 10	38	103	6	< 20	< 20	2	0,29	1,01	4	0,01	0,09	59	13	< 2	3
7,96	2005	< 10	68	23	28	< 20	< 20	8	1,05	1,76	6,36	0,03	0,24	84	22	< 2	11
1,15	387	< 10	34	211	2	< 20	< 20	13	0,31	0,22	0,65	0,05	0,07	14	5	< 2	2
2,43	208	< 10	13	186	50	< 20	< 20	1	0,88	0,56	0,71	0,02	0,02	5	3	< 2	16
8,77	541	< 10	38	33	142	< 20	< 20	8	3,83	2,42	1,65	< 0,01	0,18	18	18	< 2	85
2,85	153	< 10	44	182	30	< 20	< 20	1	0,72	0,44	0,24	0,02	0,03	3	3	< 2	5
5,05	394	< 10	57	138	42	< 20	< 20	2	1,2	0,78	0,77	0,02	0,09	13	5	< 2	10
0,59	1120	< 10	4	89	4	< 20	< 20	4	0,23	0,1	19,56	< 0,01	0,07	48	9	< 2	4
5,85	4457	< 10	83	138	56	< 20	< 20	20	1,02	1,7	3,78	0,05	0,23	61	9	< 2	7
3,73	298	< 10	27	281	41	< 20	< 20	9	0,81	0,46	0,77	0,03	0,03	10	12	< 2	7
9,6	752	< 10	177	54	205	< 20	< 20	8	3,77	3,31	1,17	0,08	0,31	21	15	9	75
2,02	198	< 10	10	282	37	< 20	< 20	< 1	0,74	0,5	0,16	0,01	0,07	1	2	< 2	16
2,49	580	< 10	24	220	39	< 20	< 20	4	1,15	1,13	0,65	0,04	0,02	23	4	< 2	11
3,74	443	< 10	22	173	62	< 20	< 20	2	1,33	0,99	0,99	0,03	0,05	16	4	2	11
2,07	393	< 10	13	321	31	< 20	< 20	< 1	0,67	0,41	0,33	0,02	0,08	6	2	< 2	10
7,14	546	< 10	41	41	123	< 20	< 20	6	2,52	2,01	2,21	0,02	0,13	29	8	5	22
5,73	4353	< 10	9	11	20	< 20	< 20	4	0,32	3,66	9,8	0,04	0,01	157	17	< 2	6
5,71	2353	< 10	98	18	106	< 20	< 20	18	1,33	1,92	5,28	0,05	0,18	76	32	5	13
5,65	3934	< 10	57	7	43	< 20	< 20	9	0,81	3,06	9,22	0,03	0,12	162	37	< 2	9
5,38	923	< 10	20	220	27	< 20	< 20	< 1	0,79	1,4	2,39	0,01	0,07	77	5	< 2	10
3,61	317	< 10	140	122	30	< 20	< 20	10	1,53	1,29	0,75	0,05	0,32	13	13	3	15
1,02	776	< 10	19	402	4	< 20	< 20	< 1	0,11	0,02	0,03	0,01	0,02	< 1	1	< 2	< 1

466

Enclosure no 4

Bleka Soil sample list (BLSS98-001-045)

Spl.no.	Coordinates	Depth	Suscept.	Sample description, comments.
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Profile 400E = Profile VLF 5. Anom 400E/90-130S. VLF 5, 90S = 400E/110S.

001	400E/115S	1,4m	150-200	7m E of MV in bog. Grey-brown silt w/gabbro fragm.
002	400E/118S	1,7	70-110	Green gabbroderivated silt w/gabbro fragm.
003	400E/112S	1,75	50-120	Grey-brown silt and gravel w/fragm of reddish quartzite. Stop towards q-block...
004	400E/110S	1,75	80-150	Silt/grav. Grey-brown w/fragm of white q, gabbro, schist.
005	400E/108S	1,65	40-60	Grey-green sand w/fragm of quartzite and gabbro. White hydrot. Q at bottom.
006	400E/107S	1,5	40-70	grey-brown sand w/q and gabbro fragm.
007	400E/106S	1,7	60-90	Grey-green sand/silt. Q-rich zone at bottom.
008	400E/105S	1,9	150-220	Grey-green sand w/gabbro and q.zite fragm. Q-rich at bottom.
009	400E/104S	2,7	400-600	Grey-green sand w/white q.zite and gabbro fragm. Mt.diss in q.zite.
010	400E/103S	3,1	200-1400	Gey-green gabbroder sand w/gabbro fragm.
011	400E/102S	3,15	300-400	As above
012	400E/101S	3,25	400-600	Grey-green sand w/ q-gravel.
013	400E/99S	3,55	400-700	Grey-blue silt and sand w/gabbro fragm and some q fragm at bottom.
014	400E/96S	3,5	200-600	Grey-greenish silt. Small sample.

Profile 400E = Profile VLF 5 Anom 400E/12-17N. VLF 5, 60N = 400E/17N.

015	400E/015N	0,6	40-60	Likely stop due to boulders. Brown hum sand w/fragm of gabbro and q zite.
016	400E/017N	1,45	100-200	Grey-brown silt. At bottom 3cm gabbro.

Profile 200E = Profile VLF 3 Anom 200E/86N. VLF 3, 100N=200E/86N.

017	200E/85N	1,0	100-200	Light brown to partly rusty silt w/sand and gravel-gabbro fragm.
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Profile 100E = Profile VLF 2 Anom 100E/111N. VLF 2, 149N=100E/100N.

018	100E/111N	0,65	180-250	In small depression. Light brown silt W/ some gravel.
019	100E/109N	0,5	150-250	Light grey-brown silt w/gabbro fragm.
020	100E/114N	0,7	150-500	Brown silt. Some gabbro fragm and some hydrot q at bottom.

Profile 300E = Profile VLF 4 Anom VLF 4, 520-530S. NB: VLF-coord only. At side of field.

021	VLF4/520S	1,1	100-450	Dark brown soil w/white silt and fragm of q-ser rock and gabbro.
022	VLF4/523S	1,2	100-200	Dark brown silt and gabbro fragm.
023	VLF4/526S	1,15	150-250	Brown and grey-greenish silt w/ much "goldmicas" and q-pice. Gabbr at bottom.
024	VLF4/529S	0,7	150-250	Brown-greenish silt. Some gabbro

Profile 1600E "The Fork Magnetic Anomaly"

025	1600E/618S	1,8	10-20	Green and grey sand. Q-sand and gabbro-deriv sand w/ fragm of gabbro and hydr q. A little Py and cer.
026	1452E/538S	1,1	10-15	Light grey q-rich sand and green gabbro der sand at bottom.
027	1452E/541S	2,35	50-250	Grey-blue q-rich sand w/q-fragm and gabbro der at bottom.
028	1452E/545S	3,0	60-120	Grey-blue q-sand w/gabbro fragm.
029	1452E/547S	2,7	30-150	As above.
030	1452E/552S	1,8	60-200	As above W/quartzite fragm.
031	1452E/557S	0,7	10-20	Brown silt and fragm of gabbro.
032	1452E/562S	1,5	30-50	Grey-green gabbroder sand w/gabbro fragm.
033	1452E/560S	0,7	5-10	Green gabbroder sand, brown soil and sand. A little org matr.

Profile 1600E = Profile VLF 10. Anom 1600E/836-870S. VLF 10, 840S=1600E/835S.

034	1600E/840S	0,8	80-150	Brown to rusty-brown silt.
035	1600E/836S	0,8	50-300	Grey-brown silt w/a little rust and soil.
036	1600E/856S	1,1	30-50	Light grey-brown sand w/q-zite fragm.
037	1600E/860S	1,3	20-80	Grey and brown silt. Some org matr and gabbro at bottom. One m S of creek.
038	1600E/863S	0,7	50-200	Blue-green silt w/gabbroder at bottom.
039	1600E/865S	1,0	20-200	Greenish silt w/q zite fragm.
040	1600E/870S	0,8	100-150	Rust-brown silt (from carbonitized rock).

Profile VLF 12 = Profile 1900E. VLF-coordinates only.

041	VLF12/1132S	1,3	50-120	Light grey-white to brown w/some rusty sections and fragm of q zite schist.
042	VLF12/1130S	0,7	10-80	Grey-brown silt w/a little rust and gabbro der at bottom.
043	VLF12/1135S	0,9	300-600	Rust-brown sand w/fragm of hydr q.
044	VLF12/1138S	0,9	200-400	Grey and brown sand/gravel/soil w/q zite fragm and gabbro fragm at bottom.
045	VLF12/1142S	0,7	200-300	Grey-rustbrown sand/silt w/gabb frag at bot.

Element	Au30	Ag	Cu	Pb	Zn	Mo	Bi	As	Sb	Hg
Units	ppb	ppm	ppm	ppm						
L.R.L.	5	0.2	1	2	1	1	5	5	5	0.01
U.R.L.	10000	200	10000	10000	10000	20000	20000	10000	2000	50
BLSS98001	17	< 0.2	99	16	417	5	< 5	6	< 5	0.05
BLSS98002	10	< 0.2	53	20	124	3	< 5	7	< 5	0.17
BLSS98003	9	< 0.2	34	9	135	3	< 5	< 5	< 5	0.02
BLSS98004	8	< 0.2	20	9	52	2	< 5	< 5	< 5	0.03
BLSS98005	8	< 0.2	22	7	86	2	< 5	< 5	< 5	0.01
BLSS98006	6	< 0.2	11	9	41	3	< 5	< 5	< 5	0.02
BLSS98007	< 5	< 0.2	33	9	63	3	< 5	< 5	< 5	0.01
BLSS98008	11	< 0.2	29	8	40	3	< 5	< 5	< 5	0.03
BLSS98009	< 5	< 0.2	20	8	49	2	< 5	< 5	< 5	0.02
BLSS98010	6	< 0.2	15	8	52	2	< 5	< 5	< 5	< 0.01
BLSS98011	8	< 0.2	19	7	45	2	< 5	< 5	< 5	< 0.01
BLSS98012	< 5	< 0.2	17	9	52	2	< 5	< 5	< 5	< 0.01
BLSS98013	< 5	< 0.2	19	9	43	2	< 5	< 5	< 5	0.01
BLSS98014	< 5	< 0.2	17	10	45	3	< 5	< 5	< 5	0.01
BLSS98015	10	< 0.2	22	8	63	2	< 5	< 5	< 5	0.03
BLSS98016	20	< 0.2	17	8	58	2	< 5	< 5	< 5	< 0.01
BLSS98017	8	< 0.2	9	11	48	2	< 5	< 5	< 5	0.02
BLSS98018	9	< 0.2	12	11	39	3	< 5	< 5	< 5	0.02
BLSS98019	17	< 0.2	7	13	35	3	< 5	< 5	< 5	0.03
BLSS98020	9	< 0.2	10	10	37	3	< 5	< 5	< 5	0.02
BLSS98021	9	< 0.2	19	14	81	3	< 5	< 5	< 5	0.02
BLSS98022	8	< 0.2	16	17	85	2	< 5	< 5	< 5	0.02
BLSS98023	8	0.2	37	28	132	2	< 5	< 5	< 5	0.02
BLSS98024	8	< 0.2	17	22	113	2	< 5	< 5	< 5	0.02
BLSS98025	6	< 0.2	34	6	41	2	< 5	< 5	< 5	0.01
BLSS98026	9	< 0.2	23	10	39	4	< 5	< 5	< 5	0.01
BLSS98027	6	< 0.2	26	7	43	1	< 5	< 5	< 5	0.01
BLSS98028	6	< 0.2	22	7	55	2	< 5	< 5	< 5	< 0.01
BLSS98029	< 5	< 0.2	23	6	56	1	< 5	< 5	< 5	< 0.01
BLSS98030	< 5	< 0.2	26	9	52	2	< 5	< 5	< 5	< 0.01

Encl. 4

Element	Au30	Ag	Cu	Pb	Zn	Mo	Bi	As	Sb	Hg
Units	ppb	ppm	ppm	ppm						
L.R.L.	5	0.2	1	2	1	1	5	5	5	0.01
U.R.L.	10000	200	10000	10000	10000	20000	20000	10000	2000	50
BLSS98031	< 5	< 0.2	12	9	41	2	< 5	< 5	< 5	< 0.01
BLSS98032	< 5	< 0.2	21	5	43	2	< 5	< 5	< 5	< 0.01
BLSS98033	< 5	< 0.2	14	10	41	3	< 5	< 5	< 5	0.02
BLSS98034	< 5	< 0.2	11	12	27	3	< 5	< 5	< 5	0.01
BLSS98035	< 5	< 0.2	11	23	38	3	< 5	< 5	< 5	0.05
BLSS98036	15	< 0.2	11	13	30	6	< 5	< 5	< 5	0.02
BLSS98037	8	< 0.2	13	11	45	4	< 5	< 5	< 5	< 0.01
BLSS98038	6	< 0.2	16	12	45	2	< 5	< 5	< 5	0.02
BLSS98039	6	< 0.2	10	11	43	2	< 5	< 5	< 5	0.02
BLSS98040	< 5	< 0.2	18	8	43	2	< 5	< 5	< 5	0.02
BLSS98041	< 5	< 0.2	25	7	36	3	< 5	14	< 5	0.01
BLSS98042	< 5	< 0.2	14	9	66	2	< 5	< 5	< 5	0.03
BLSS98043	< 5	< 0.2	6	9	28	2	< 5	< 5	< 5	< 0.01
BLSS98044	< 5	< 0.2	14	11	62	3	< 5	< 5	< 5	0.02
BLSS98045	8	< 0.2	5	14	32	2	< 5	< 5	< 5	0.03

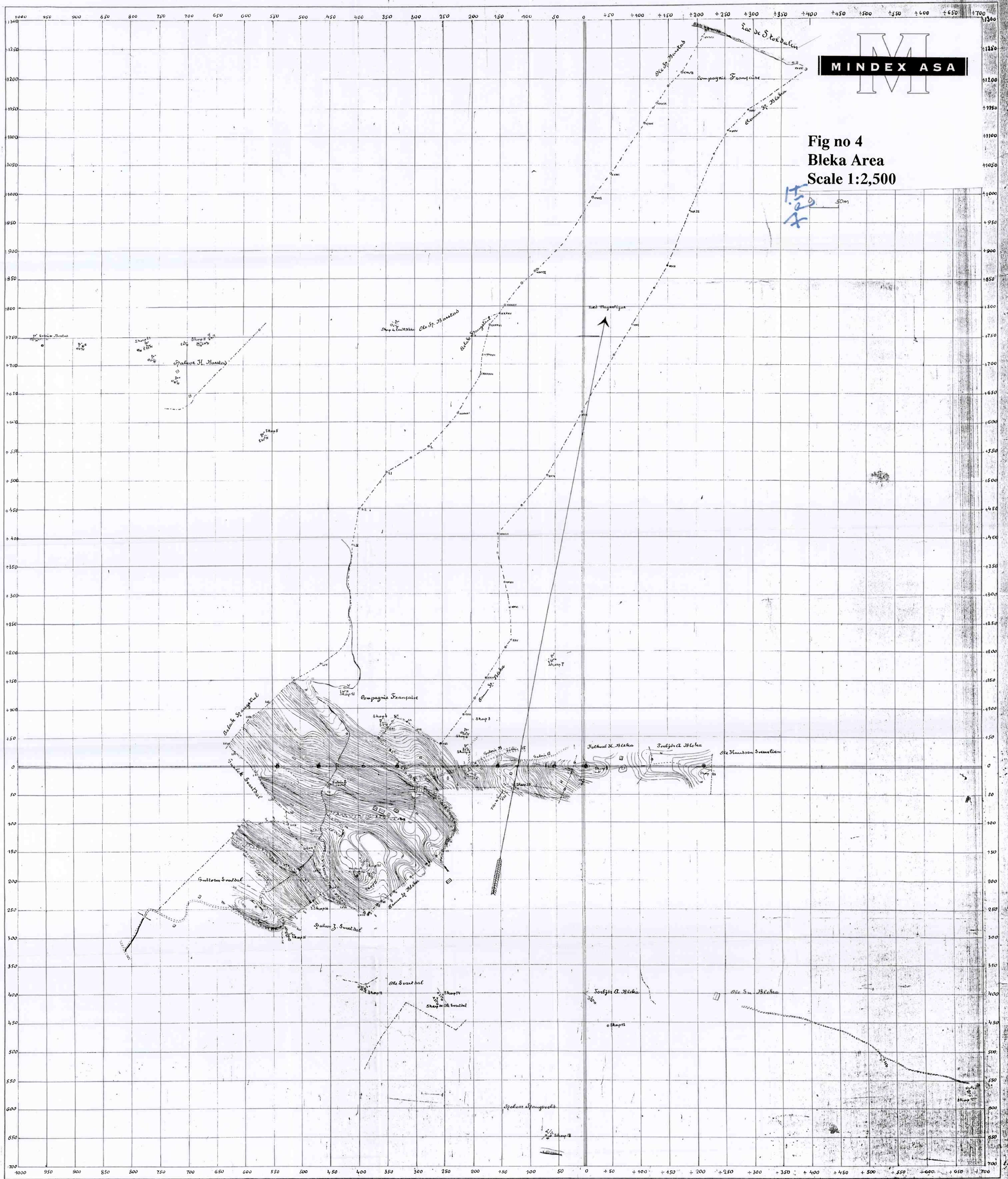


Fig no 4
Bleka Area
Scale 1:2,500

Fig no 5
Bleka Central Area
Scale 1:1,000

