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BV 1984

KOLSVIK PROJECT

Joint venture between

A/S Sulfidmalm and Superior Norge Exploration Company

REPORT ON GEOLOGICAL, DIAMOND DRILLING AND METALLURGICAL INVESTIGATIONS

SEPTEMBER 1983

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CONTENTS

LOCATION	Page	1.
PREVIOUS WORK IN THE AREA		1.
PRESENT OWNERSHIP		1.
GEOLOGICAL SETTING		2.
WORK CARRIED OUT ON THE PROPERTY		з.
DESCRIPTION OF THE PROPERTY		з.
GEOLOGY AND MINERALIZATION		З.
STRUCTURAL OBSERVATIONS		7.
MINERALIZATION AND TECTONICS		10.
MINERALOGICAL AND METALLURGICAL EXA- MINATIONS		15.
TONNAGE POTENTIAL		16.
SIGNIFICANCE OF RESULTS	:	17.
CONCLUSIONS AND RECOMMENDATIONS	2	20.

APPENDIX

- 1) ASSAY RESULTS FROM DRILL HOLES
- 2) ASSAYS FROM ADITS
- 3) SUMMARY DRILL SECTIONS SHOWING POTENTIAL ORE ZONES
- 4) PETROGRAPHIC DESCRIPTIONS
- 5) METALLURGICAL INVESTIGATIONS
- 6) DRILL LOGS AND SECTIONS

KOLSVIK PROJECT

LOCATION

The Kolsvik gold showing is located at approximately 65°40' E in Bindal community, Nordland County, Norway.

The showing lies on the western side of the Tosenfjord, some 4 kms directly south of Kolsvik Bay. The fjord is ice free year round and extends to considerable depth (up to 700 m).

From Kolsvik Bay there is a distance of 3 kms across the fjord to Lande which has road connections to Brønnøysund. To the local community center of Terråk is a distance of approx. 30 kms by boat.

At the head of Kolsvik Bay, a hydro-electric power station (Åbjøra power-station) is located. In connection with the power-station there is a small shipping quay and a good quality gravel road extending approx. 1 km south towards the gold showing.

Fig. 1. shows the general geographic location of the area. Fig. 2 shows the topographic conditions and location of the gold showings in relation to the fjord.

PREVIOUS WORK IN THE AREA

Gold has been known in the Kolsvik area since the 1920's, and investigations were carried out in the 1930's by a private Norwegian company. This work which mainly consisted of adit driving and sampling was terminated by the start of the Second World War and never recommenced.

The Swedish company Boliden were also involved during this period and were rumoured to be interested in taking over the property, but they could not accept the conditions stipulated by the Norwegian Government at that time.

Since the war the claims in the Kolsvik area have been held by the Norwegian State. Minor investigations were carried out by the Norwegian Geological Survey in 1962 and the property was optioned to A/S Sydvaranger for å short period in the early 1970's.

PRESENT OWNERSHIP

The mining claims to the Kolsvik property are owned by the Norwegian State. A/S Sulfidmalm became interested in the area in 1978 and in 1979 an agreement was signed whereby the Norwegian State optioned to Sulfidmalm

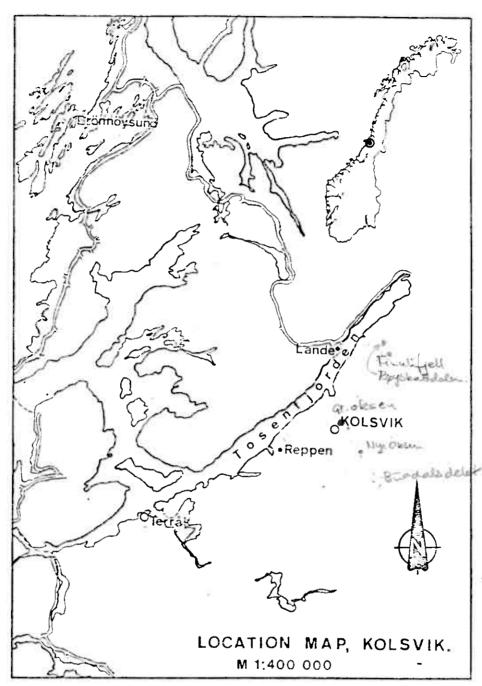
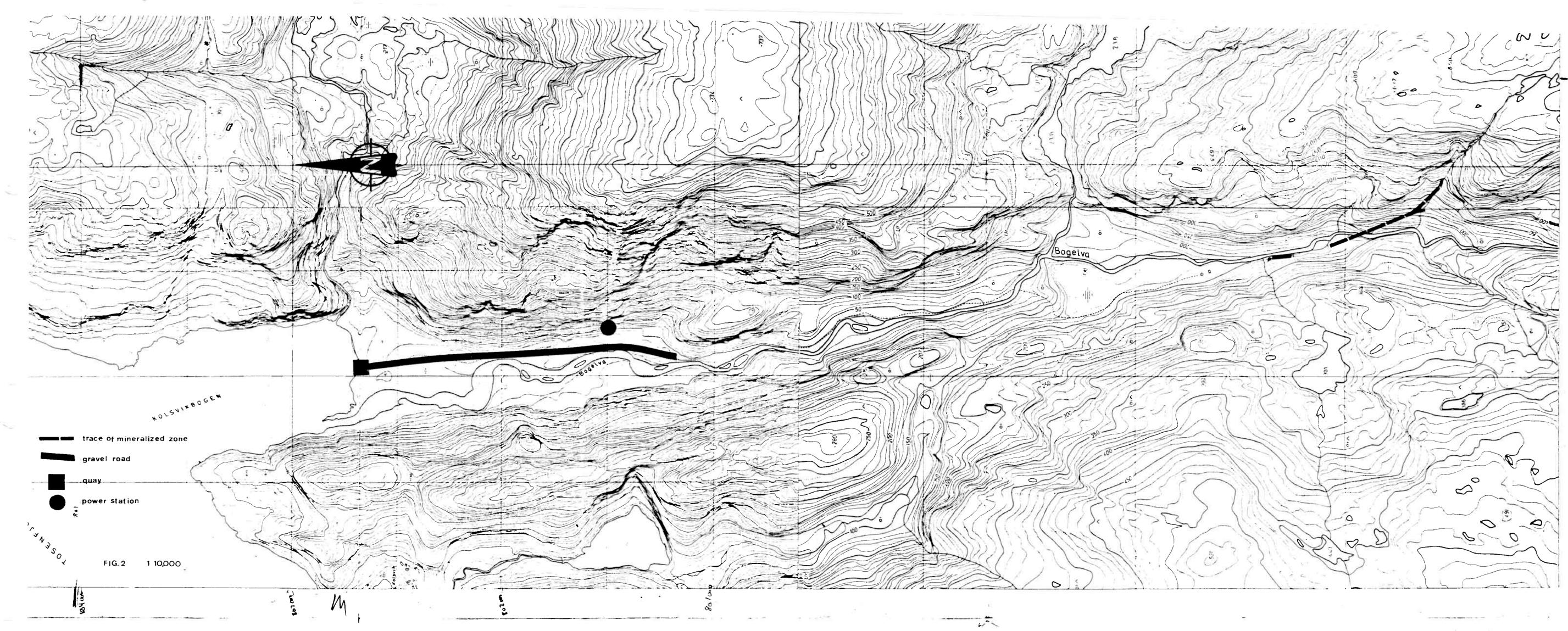


FIG.1.



the Kolsvik claims for a 5 year period.

A/S Sulfidmalm then commenced with exploration activities in the area on their own.

In 1981 Superior Norge Exploration Company (SNEC) became involved in the project and an agreement between Sulfidmalm and SNEC was signed giving SNEC the option to earn up to 49% interest in the venture.

GEOLOGICAL SETTING

The geology of north-central Norway is dominated by nappes of relatively high grade psammitic, pelitic and calcareous metamorphic rocks with subordinate metavolcanics and with intrusive masses of Caledonian age. The depositional age of the metasediments of the nappe sequence has for a long time been regarded as most probably Cambro-Silurian, but recent age determinations and stratigraphic investigations are indicating that parts of certain successions may be of late Precambrian age.

The rocks in the Bindal region belong to the Helgeland Nappe which is the highest tectono-stratigraphic unit in this part of north-central Norway (fig. 3, fig. 4.).

The area is dominated by basic intermediate and granitoid intrusives, some of which are extremely large in areal extent.

The granitic bodies show marked age differences and represent a complex batholitic development. The largest granitic body, the Bindal granite has given a Rb-Sr whole rock age of 424±26 m.y.

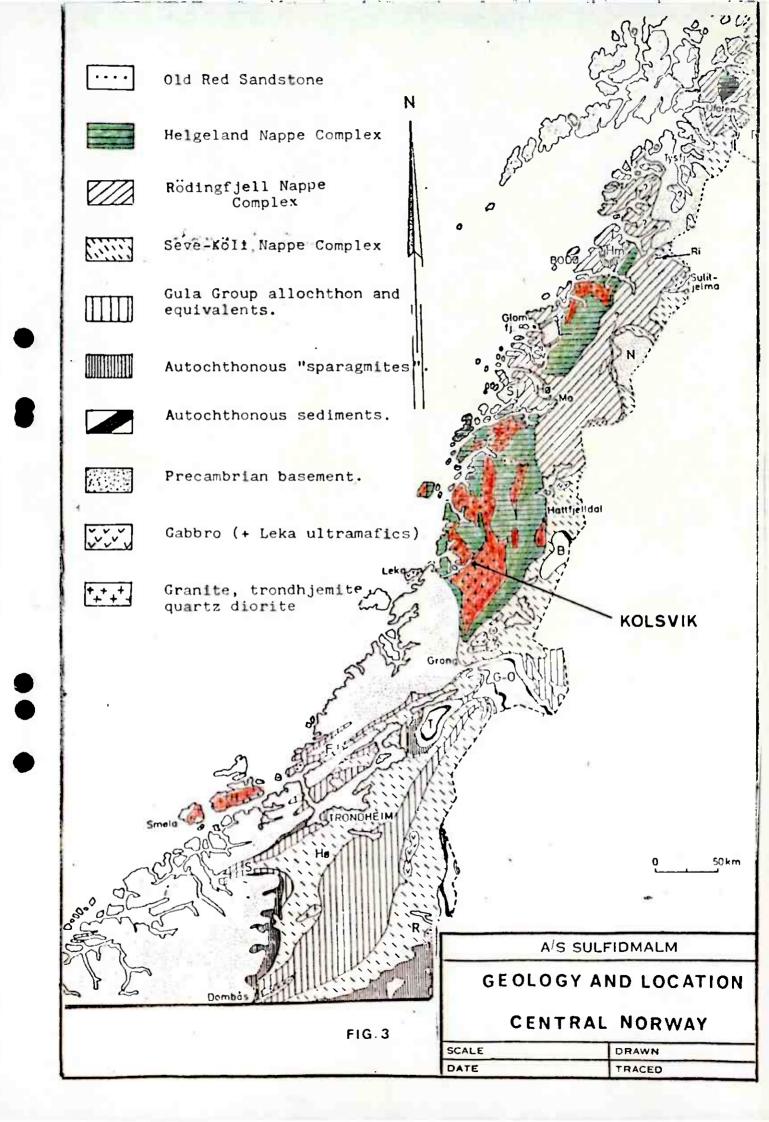
The immediate carapace to the granitic rocks of the region would appear to be of oceanic crust (ophiolite) with an unconformable or Palae-ozoic cover sequence of psammitic pelitic and calcareous rocks.

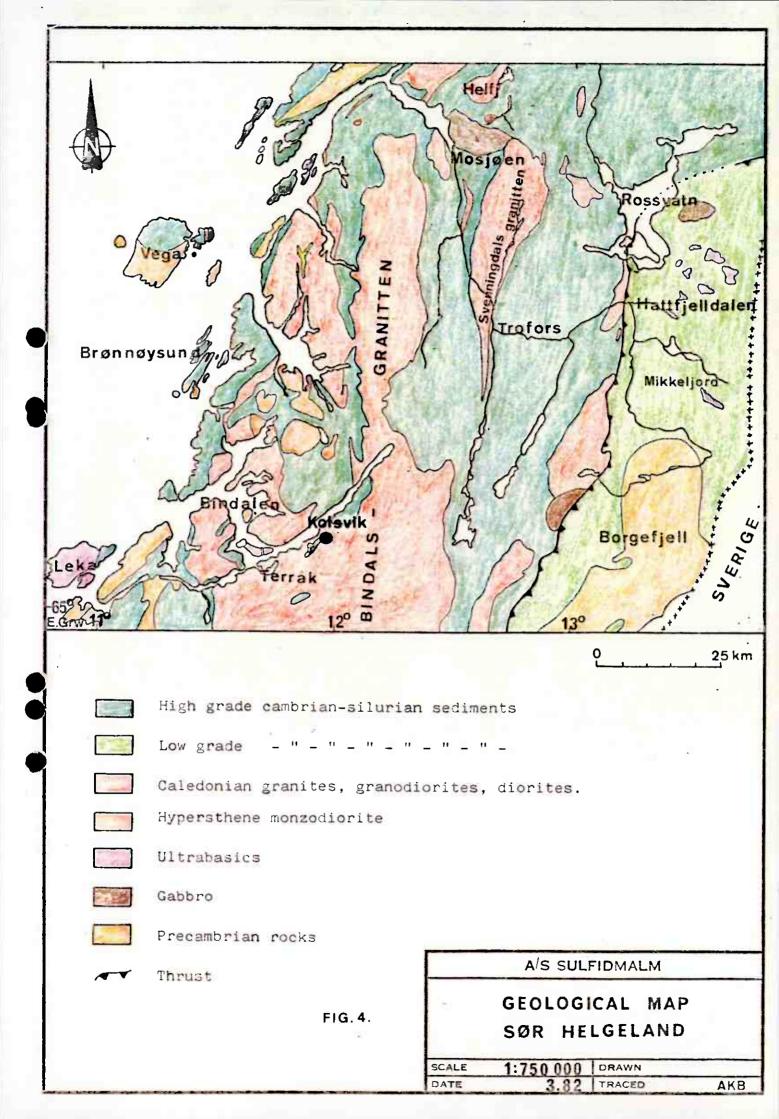
The result of reconnaissance studies on the tectono-stratigraphy of these units reveal that several major thrust nappes must be present within the confines of the Helgeland Nappe itself.

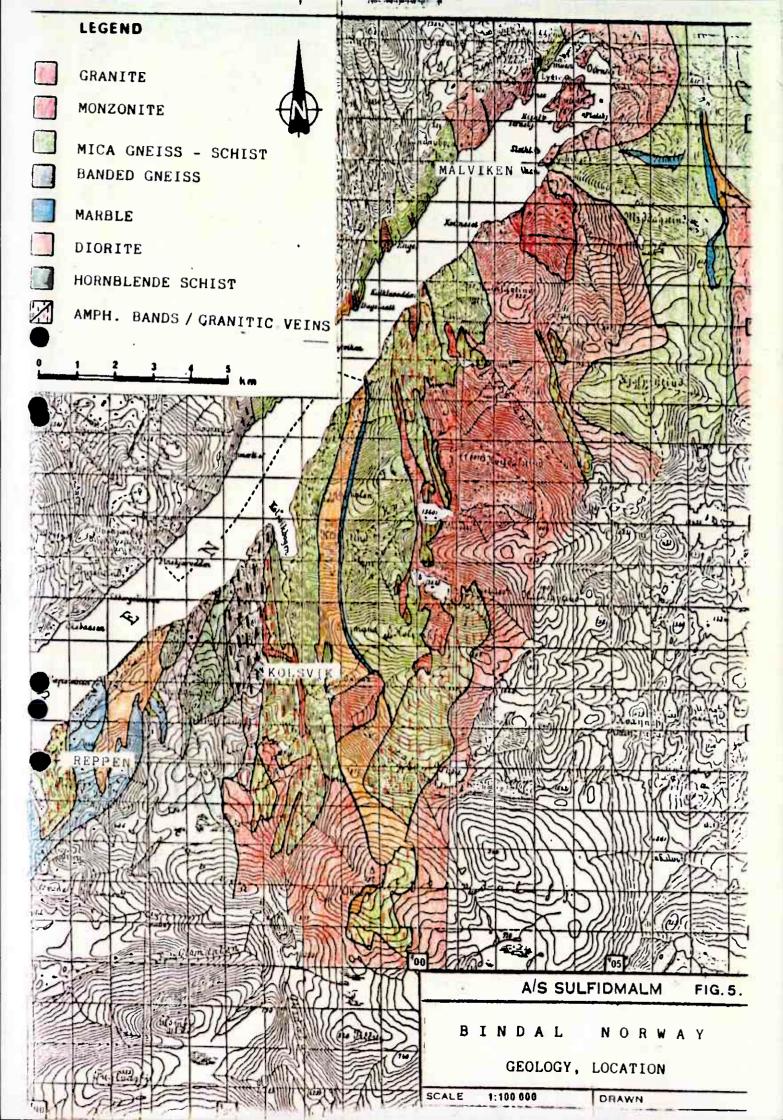
Apart from Kolsvik, gold is also present at several other localities in the immediate area - one of these areas, Reppen, some 6 kms to the west of Kolsvik is at present under investigation.

The area is also notable for its scheelite mineralization which again is the object of considerable exploration interest

Fig. 5 shows the geology of the immediate area to Kolsvik.







WORK CARRIED OUT ON THE PROPERTY

- 1979 Initial location, mapping and sampling of several areas of gold/ arsenopyrite mineralization in the region.
- 1980 Regional mapping and regional geochemical sampling. Detailed mapping, sampling and diamond drilling at Kolsvik: 4 holes totalling 390.35 m.
- Detailed geological mapping at structural interpretation in the Kolsvik area. Detailed sampling of surface showings and adits. diamond drilling 1.516.3 m in 15 holes.

 Metallurgical testing of the Kolsvik mineralization.

 Detailed mapping and sampling of alluvial and galciofluvial deposits north of the Kolsvik showing.
- 1982 Drilling 1 468.4 m in 15 holes. Extra metallurgical testing.

DESCRIPTION OF THE PROPERTY

In describing the property various terms from the 1930 investigations have been used, and a short description of the area is given here, and is also shown on fig. 6.

The southernmost outcrops in the mountainside on the east side of the Bogdalen River are called the F-zone. The Storstein adit is driven along the F-zone. Moving north and down towards the river we find the Kaffistein adit.

Along the western side of the Bogdal River are a series of five adits comprising what is termed the C-zone. The adits from south to north are named Hartvig, Mannerheim, Boliden, South Skar and North Skar.

Immediately across the river from South Skar is a small showing termed the D-zone.

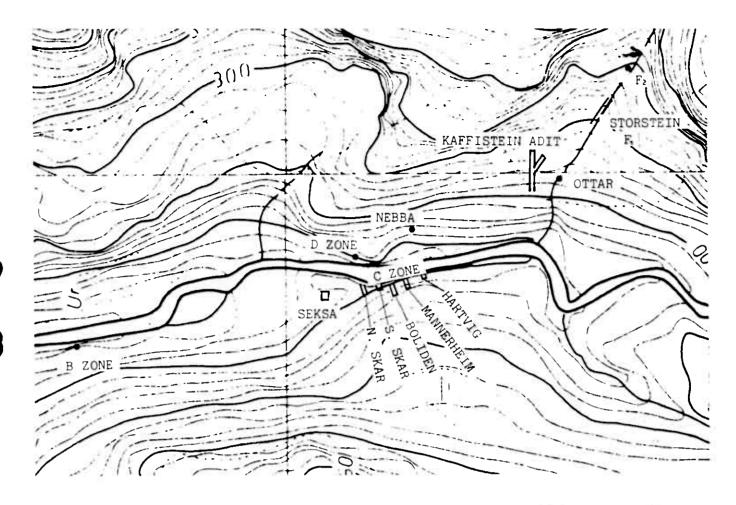
Further north from the C-zone is an old waterfilled shaft termed Seksa.

From Seksa there is a distance of some 300 m north to the B-area.

GEOLOGY AND MINERALIZATION

The major lithologies found in the Kolsvik area are:

- I. Granite
- II. Augen gneiss / banded gneiss (altered monzonite)
- III. Marble
- IV. Mica schists.



SCALE 1:5000

FIG. 7.

LOCALITY NAMES IN KOLSVIK

I.) Granite

The notable feature of the granite in the Kolsvik area is its general lack of mafic constituents. In many cases its composition is simply quartz and feldspar (orthoclase, oligoclase, microcline). More biotite rich phases are only seen locally.

The granite is usually without any planar structure, but dark variants may show a weak biotite foliation.

The granite often shows alteration in the vicinity of tectonic zones, where carbonate, sericite, muscovite and chlorite are common. A characteristic pinkish alteration is also developed along joints. These joints are often lined with secondary minerals such as desmin, lammonite, ankerite, calcite and quartz. Especially quartz and carbonate veining is common.

Disseminated arsenopyrite is frequently seen in the vicinity of tectonic structures and is usually accompanied by alteration products. The quartz-gold and arsenopyrite bearing veins and segregations are usually limited to the granite. Good Au mineralization is often seen to be related to highly altered red granite especially in the C-area.

II.) The gneisses

The gneisses in the Kolsvik area vary in composition and texture from augen-/banded gneisses and dioritic gneisses to more schistose mica variants of these.

The augen-/banded gneiss structurally overlies the other rocks and can be seen especially in the F- and Kaffistein areas. It is a biotite rich rock with augen or bands of plagioclase and quartz. A planar structure is well developed and shows a constant N-S strike and steep dip towards E.

The diorite gneiss is usually more massive, but occasionally it shows foliation in more mica rich parts. The contacts between diorite gneiss and other gneisses and schists are generally diffuse, especially in sheared areas. Definite intrusive diorite is seen at several locations (especially in drill holes) but texturally similar rocks are also seen in sequences assumed to be metasediments.

In pol-thin section several of the augen and dioritic gneisses are shown to have a quartz monzonite composition, and often the more massive varieties, although having a distinct augen texture in hand specimen, exhibit a granitic texture in section with scattered coarse flakes of biotite and muscovite occuring in a coarse mosaic of feldspar, — both sodic and potassic and quartz.

The gneisses are cut by a great number of veins and at least three phases of granitic veins are noted, the earliest veins being highly deformed. Aspy mineralization is rare, but can be seen in some quartz and granitic veins. Py is a common mineral in both dioritic- and augen/banded gneisses.

III. The marble

The marbles (dominantly calcite marble) are all highly deformed rocks. They vary in composition and texture from banded marble, containing thin bands of pelitic composition which are often folded to highly deformed fragment rich marble, now showing a breccia texture.

A rapid interchange between marble and carbonate rich mica schists is seen in drill holes from the C-area.

Skarn (diopside-garnet) zones are frequently developed in the marble, especially in contact relations to younger crosscutting granite.

IV. Mica schists

The mica schists vary from fine to medium grained, mostly strongly sheared biotitic rocks. They are mainly found in or adjacent to shear zones, especially well developed in the C-area.

The mineralogical and textural variations of the schists are thought to represent both a primary change in the sequence and a strongly variable deformation of the rocks.

V. Mineralization

The gold and arsenopyrite mineralization occurs dominantly in granite near the contact zone with gneisses and metasediments. The mineralization is typically tectonically controlled and related to such structures as

- a) Quartz vein fillings in fractures, shears and joints.
- b) Quartz segregations in or associated to the above structures.
- c) Quartz/Asp matrix fill in breccias.
- d) Massive Asp zones in fractures and shears.
- e) Joint smearings of Asp.

Relationships of tectonics and mineralization and extent of mineralization will be treated later in this report.

Two typical quartz vein type mineralizations show the following in polished thin section

Sample PTS 5629 C zone vein type

Grain size (mm) max. avg.

Quartz 95 %

Muscovite tr.

Arsenopyrite 3-4 % 0.75 0.40

Native gold 1 % 0.25 0.05

Masses of euhedral arsenopyrite grains, locally intergrown with coarse blebs of native gold occupy fracture zones within a coarse interlocking quartz mosaic. Muscovite is the sole alteration mineral associated with the mineralization. Individual quartz grains exhibit undulose, strained extinction and together with arsenopyrite are commonly criss-crossed with microfractures. The latter manifest themselves in the form of thin "tracks" of microcrystalline quartz within the coarser vein quartz and quartz filled fractures transecting arsenopyrite grains.

Sample PTS 5630 C zone vein type

Grain size max avg.

Quartz

55-60 %

Alkali feldspar

4-5 %

Carbonate

tr.

Chlorite. Biotite tr.

Arsenopyrite

35-40 %

massive

Galena

tr.

Native gold

tr.

0.006 0.006

Rutile

tr.

Texturally this sample is similar to PTS 5629. From a mineralogical point of view, however, subtle yet distinct differences exist. In place of muscovite an alteration assemblage of carbonate and chlorite/biotite is found associated with the arsenopyrite in fracture zones. Minor coarse grained K feldspar joins the quartz gangue and occurs both as localized grain aggregates and as isolated single crystals.

These two samples represent typical vein type mineralization which is common through the property. Another type of mineralization in the area and common in the F zone is a "breccia type". A typical PTS shows the following

Sample PTS 5631 F	zone	breccia	type	e :
				size (mm)
			max.	avg.
Quartz	15-20	%		
K Feldspar Plagioclase (Albite)	65-70	%		
Chlorite	' 1			
Apatite	tr.			
Sericite	tr.			
Arsenopyrite	5-10	%	3.00	1.50
Rutile	٠1			
Zircon	tr.			

tr.

Here masses of arsenopyrite together with associated chlorite alteration occur within fracture zones. The granitic host rock which has been strongly shattered consists of predominantly coarse interlocking K feldspar and albite grains with lesser interstitial (=primary) and fracture-filling (=secondary) quartz.

0.006 0.006

Scheelite has been noted in several of the gold bearing veins and detrital cassiterite has been found in glaciofluvial deposits north of the area.

STRUCTURAL OBSERVATIONS

Native gold

I. Summary

The Kolsvik valley to which the gold property is located is a deeply glaciated valley, the course of which is influenced by the strong shattering associated with a major fault zone with a north south trend extending along the valley floor. This fault zone is a dominant structural feature, can be traced for some tens of kilometers and is readily seen on ERTS satellite images.

The lithological assemblage of the area has been variably affected by late Caledonian and subsequent deformation as revealed in fault, shears and joint systems. It is these faults, shears and joints which provided the passage for mineral-bearing solutions or the redistribution and concentration of metals.

Several categories of fracture characterize the late tectonic fabric of the Kolsvik district.

- 1) Shear zones and faults marked by zones of crush and or shear.
- 2) Joints.
- 3) Later joints and shear zones possibly non Caledonian.
- 4) Rabound joints i.e. parallel to the ground surface.

Categories 1 and 2 are Caledonian in age and relate to granite emplacement and subsequent Caledonian tectonics.

Gold mineralization appears to occur chiefly in shear fractures, faults or joints together with arsenopyrite or in association with a gangue of quartz in which arsenopyrite can occur as fine disseminations, veinlets or irregular segregations. Native gold is commonly seen in the area and is most common in association with quartz. The arsenopyrite and/or quartz arsenopyrite veins usually occur as thin discontinuous veins or less regular elliptical bodies within the fractures. Vein quartz - sometimes Asp and Au bearing also occurs in systems of tension gash veins associated to some of the minor faults.

The most conspicuous development of sulphide occurs in very brittle rocks which become more heavily broken or diced up with successive fracture systems. Massive arsenopyrite fills the fractures, frequently giving the rock the appearance of a fault breccia.

Mineralization has been found on surface over an intermittent strike length of some 800 m from the F zone in the south through the C zone to B in the north. Diamond drilling has been concentrated between and around the F and C zones. Integrating the data from zones F, C and B brings out several features which are summarized below:

- 1) Each zone displays a rational but somewhat different pattern, indicating they are near coherent sub areas of a large tectonic framework.
- 2) Two systems of fractures seem to be significant in the distribution of mineralization in the area. In chronological sequence these are
 - a) Conjugate system of gentle to moderately inclined shears and joints with an average 160° strike. The hanging wall in each case moves downwards indicative of a sub horizontal extension of the rocks. Tension gash veins of quartz are associated with these fractures in the more brittle rocks. These flat shears often contain development of massive Asp or elliptical vein quartz with Asp and Au. This conjugate

system is well seen in the C zone adits and the Kaffistein adit.

- b) Steep shears-faults and joints with an average SE-NW trend (strike spread 90°-170°). They are well developed in the F zone, inner Kaffistein adit and in the C zone. The fractures frequently exhibit a suite of associated tension gash veins. The relative age relationships between the fracture systems can be seen in the C zone (Boliden adit) and in the Kaffistein adit where NNW-SSE and N-S fractures postdate the flat conjugate system.
 - These "b" type shears are quite dominant and some can be traced for several tens of meters as in the F and C zones.
- 3) The conjugate system of flat shears is compatible with sub-horizontal extension of the rocks i.e. distension above a rising plutonic mass of granite.
- 4) Stereographic plots indicate that despite their temporal difference the "a" and "b" systems belong to the same orogenic cycle.
- 5) The earliest phase of mineralization was emplacement of sulphide and sulphide-metal bearing vein quartz along the conjugate system of flat to moderately inclined fractures of "normal" type i.e. hanging-wall moves downwards.
- 6) Later faulting has affected redistribution of sulphides, in some cases producing a conspicuous increase in porosity and potential mineral sinks. In several places such as the F zone dramatic breakage occurs and when impregnated with massive sulphide the rock mass has the appearance of a breccia.
- 7) The major fault zone in the valley floor is a later event. It has effected disturbance of the mineralization and its associated fractures but the fault itself seems to carry no gold and is characterized by a low temp mineral assemblage.
- 8) Continuity of the various tectonic units can be established in places from surface observations and sporadic continuity can be intrepreted from drill holes. Within the tectonic units the general pattern appears to be one of somewhat erratic distribution of mineralization as demonstrated by assay results and as is to be expected in this type of deposit.

MINERALIZATION AND TECTONICS

The earliest mineralization seen is related to low angle conjugate joints supposedly related to granite intrusion. The most dominating mineralized structures in the area however are several easterly dipping and NW-SE (90°-170°) striking faults and shears with related minor fractures, shears and tension cracks. Brecciated zones are often developed as in the F zone.

Mapping and drilling in 1980/82 has indicated a "structurally controlled zone" extending from the F_2 area in the south to the B area in the north, a distance of some 900 m. The northernmost 300 m between Seksa and the B zone is completely covered by scree and offers no exposure and has not been drill tested.

The elevation difference between F2 and B is 180 m.

This mineralized zone is cut by the late major N/S fault system in the valley floor - the Bogdalen fault. Splays on this fault parallel earlier NW-SE trending fractures and have caused minor re-orientation (dragging) and/or displacement. No evidence of major displacement has been established.

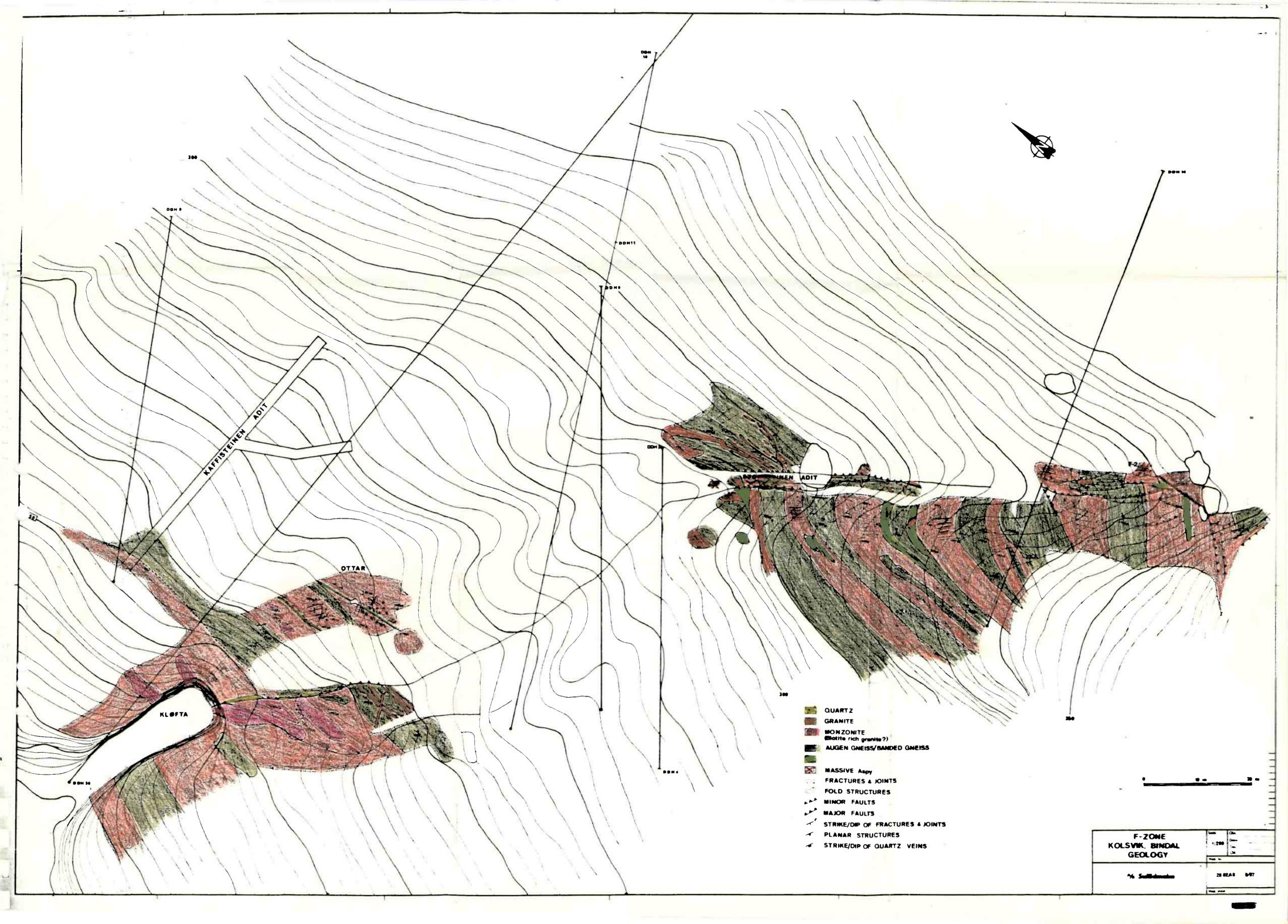
For purposes of description the property can be divided into two areas:

- the area from F to C zones and the C zone to B zone area.

a) The F-C area (fig. 7)

Mineralization in this area can be studied on surface in the Storstein adit, the Kaffistein adit and in the Ottar, Oppgangen and Nebba areas. The following drill holes are also located in this area: DDH 3, 4, 8, 9, 10, 11, 12, 13, 20 and 36.

The F-zone on which the Storstein adit is located consists of two major steep faults with an undulating trend. At the mouth of the adit the distance between the two faults is some 5 m narrowing to the south where they converge some 28 m within the adit again opening up further south. The granitic rocks between these fractures are well mineralized with arsenopyrite chlorite-quartz along steep fractures trending 120° and 180° - this gives a marked breccia appearance to the rock. Massive arsenopyrite occurs intermittently near the footwall of the easternmost fault. In the footwall to the westernmost fault related minor fractures and joints carrying arsenopyrite and quartz are present over a distance of some 20 m. Surface sampling has returned 10.63 Au g/t from bulk channel sampling over the easternmost 4.5 m of the zone at the mouth of the adit.



The F_2 showing located some 30 m to the SE and 40 m higher elevation returned 6.22 Au g/t over 1.5 m.

The Ottar showing located some 30 m below the F zone is interpreted as the western fault observed in the F zone. Two grab samples from Ottar sampled in 1980 indicate 4.5 g/t Au and 14.9 g/t Au over $0.5\,\mathrm{m}$.

In the <u>Kaffistein adit</u> two well mineralized (Asp, Quartz) zones are seen with related joint and fracture mineralization. Low conjugate fracture sets of the earliest generation are also seen in this area to predate the later fractures. The zone of mineralization is of the order of 15 m, but chip sampling has revealed low numbers, 2g/t Au over 2 m.

The <u>Oppgangen</u> and <u>Nebba</u> areas are extremely poorly exposed but early conjugate fractures have been recognized being cut by later NW/SE fractures. Surface sampling has given 5.1 g/t over 1 m (Oppgangen) and 3.04 g/t over 7 m (Nebba).

Small surface showings have also been located at the D zone 22.4 g/t over 1 m and below the collar of DDH 12/13 $\,4.7$ g/t over 0.3 m.

A total of 11 drillholes have been drilled in this area. The topography is extremely difficult with the trace of the zone trending across a steep rugged valley side with most of the area being covered by large masses of scree and boulders. This necessitated most of the holes being drilled from the "wrong" side i.e. footwall side of the zone.

Two holes, DDH 3 and 4 were put down on the F-zone in 1980. DDH 3 proved the depth down to at least 90 m with the best values of 9.31 g/t Au over 3.25 m. DDH 4 intersected 22.3 g/t over 0.75 m which is interpreted as footwall mineralization.

The geology and assays of the holes are shown on enclosed sections. All of the holes intersected structurally controlled arsenopyrite/quartz mineralization and visible gold was noted from DDH 8, 12 and 13.

DDH 9, 10, 11 were put down to test the northward continuation of the F-zone. DDH 9 returned only traces of gold (3.43 g/t over 0.25 m). DDH 10 gave 4.88 g/t AU over 5.0 m. DDH 11 returned 3.38 g/t Au over 5 m (5.69 g/t over 2.5 m).

DDH 8 drilled to confirm the supposed northerly extension of the Kaffistein adit mineralization gave 3.96 g/t Au over 4.75 m (5.63 g/t Au / $0.75 \, \text{m} - 7.82 \, \text{g/t} / 1.75 \, \text{m}$.)

DDH 12 and 13 were drilled to test the northerly continuation of the DDH 8 mineralization. DDH 12 hit 10.40 g/t Au over 1.5 m (5.22 g/t over 3.5 m) whereas in DDH 13 two zones were intersected - 8.06 g/t Au/3 m and 5.8 g/t Au.

DDH 20 intersected only two minor gold values over 0.5 m.

DDH 36 put down to intersect the F-zone at depth intersected minor mineralization between 117 and 125 m.

DDH	LOCATION	DIP	LENGTH		SIGNIF	CANT ASSA	YS
)DII	LOCATION	DIF	PENGILI	FROM	TO	LENGTH	Au g/t
3	352 S - 158 E	90°	94.20 m	60.0	61.0	1.0	3.3
				62.0	62.5	0.5	2.05
				65.25	66.50	1.25	4.88
				79.50	80.0	0.5	15.0
				87.50	90.75	3.25	9.31
4	352 S - 158 E	50°	93.05	17.0	18.0	1.0	4.05
				28.75	29.5	0.75	22.3
8	285 S - 83 E	40°	88.30	55.5	56.25	0.75	5.63
				58.50	60.25	1.75	7.82
				61.75	62.25	0.50	1.03
9	373 S - 113 E	35°	94.6	63.75	64.0	0.25	2.4
				68.0	68.25	0.25	1.1
				80.0	80.25	0.25	3.43
				80.5	80.75	0.25	1.03
10	362 S - 101 E	36°	144.0	54.0	59.0	5.0	4.88
11	362 S - 101 E	55°	159.3	114.0	119.0	5.0	3.38
	17,000			116.5	119.0	2.5	5.69)
12	201 S - 50 E	38°	124.5	38.0	41.5	3.5	5.22
			•	(40.0	41.5	1.5	10.4)
13	201 S - 50 E	20°	63.7	30.0	33.0	3.0	8.06
				40.5	41.5	1.0	5.8
14	420 S - 168 E	42°	120.8	NOT.	ASSAYED		
20	130 S - 30 E	45°	89.8	17.5	18.0	0.5	1.53
36	300 S - 42 E	36°	271.5	123.0	124.0	1.0	0.83

From the available surface information and drill hole data an overall continuous "mineralized zone" extending from F- to the C- area is indicated.

DDH 3 has indicated a minimum depth of 90 m.

b) The C-area (fig. 8.)

The C-area is dominated by strong shearing/faulting with a NNW-SSE direction and a steep easterly dip. A marked fault zone follows the contact between the granite and the country rocks.

This fault zone can be traced for some 125-150 m along strike. Co-incident and partly enclosed in the fault zone are quartz-arsenopyrite veins and irregular bodies - in places up to 1.5 m wide. These can be traced sporadically along the length of the fault zone and often are seen to carry free gold.

Several adits are driven into the footwall of the fault zone in the C-area and both detailed mapping and sampling of the adits indicate several zones of mineralization in the footwall granite.

In the Boliden adit three separate zones occur, chip samples giving 7.3 g/t Au / 3 m - this correlates with the main C-vein fault. Further 4.1 g/t Au / 6 m from 7.0-13.0 m and finally 3.4 g/t Au / 4 m from 30.0-34.0 m.

Values from the other adits on the zone were however poor.

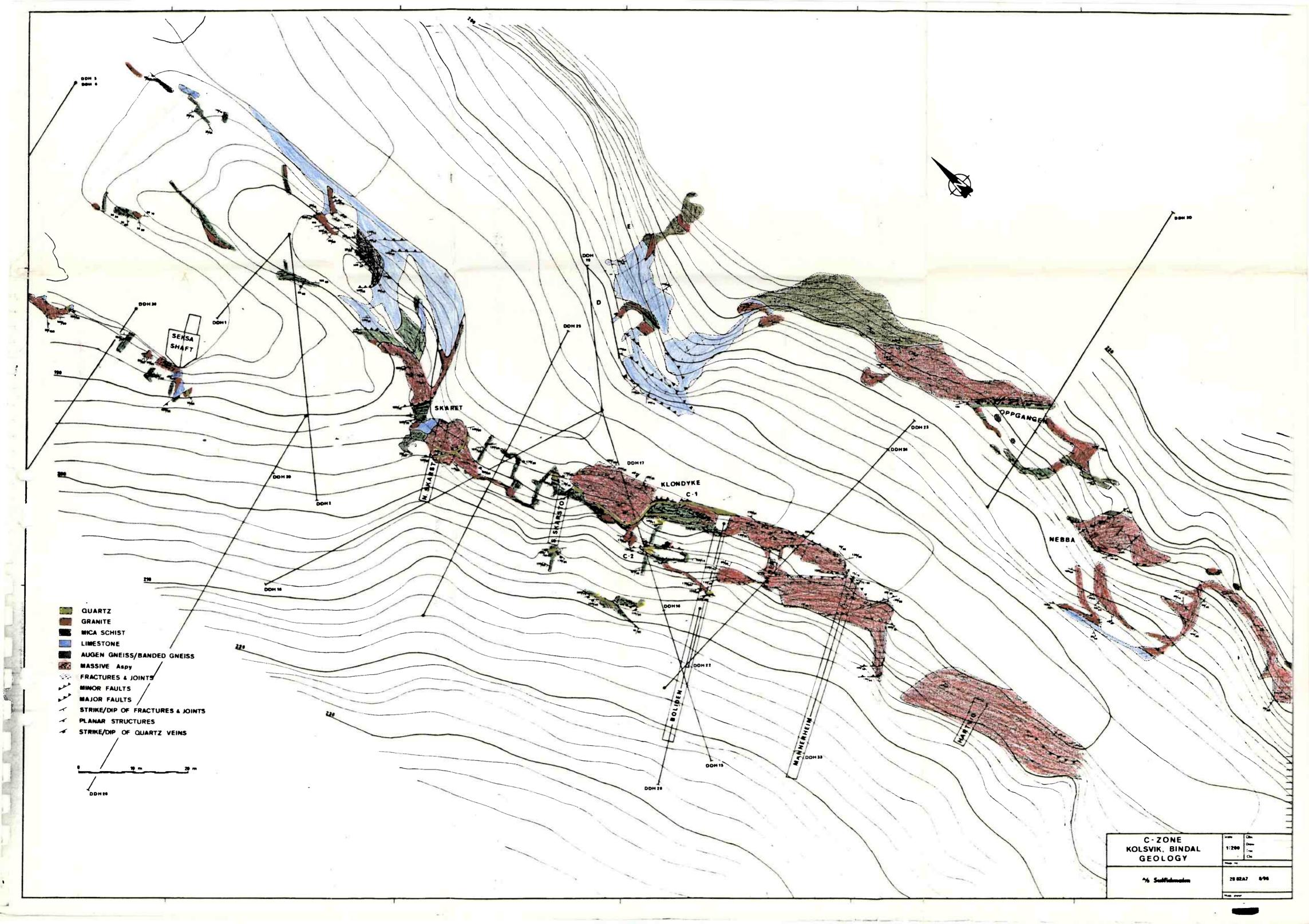
Two different joint sets carrying quartz ‡ Au and Asp have been mapped in the adits: - a) steep easterly dipping and b) low angle conjugate. The low angled fractures being the earliest.

Thirteen drill holes have been drilled in the C-zone area. DDH 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28 and 33.

DDH 15 which was put down to investigate the C-zone at depth intersected a well mineralized zone some 20 - 25 m below the level of the Boliden adit giving 26.1 g/t Au over 11.25 m. In core the mineralization is seen to relate to joints and shears with two sets being developed at right angles to each other.

DDH 16 and 17 put down on the same profile but lower than DDH 15 intersected mineralization over long core lengths (22.0 - 52.0 m in DDH 16; 22.0 - 68.0 m in DDH 17). These meters gave positive indications of gold but gave higher assays only in isolated areas.

DDH 16 34.0 - 36.5 m 2.25 g/t
DDH 17 45.0 - 48.0 m 2.8 g/t
62.0 - 64.0 m 5.76 g/t



The rest of the holes in this area all intersected significant core lengths of mineralized structures, with varying core assays. A summary of the drill holes and significant assay numbers are shown in table 2.

DDH	LOCATION	DIP	LENGTH	FROM	IGNIFICA TO	ANT ASSAYS LENGTH	Au g/t
15	62 S 7.5 E	44°	93.45	27.25	38.50	11.25	26.1
16	62 S 7. 5 E	65°	89.95	34.0 41.5	36.5 42.0	2.5 0.5	2.25
17	62 S 7.5 E	80°	80.60	32.0 45.0 62.0	32.5 48.0 64.0	0.5 3.0 2.0	2.06 2.80 5.76
18	62 S 7.5 E	45°	97.0	26.5 34.0	29.0 35.0	2.5	4.26 2.24
19	62 S 7.5 E	66°	56.3	9.0	9.5	0.5	2.87
20	101.5 S 27 W	90°	156.85	8.0 31.0	9.0 35.0	1.0 4.0	3.48 2.35
22	92 S 2 E	45°	38.0	0.0 22.0 26.0	2.0 24.0 27.0	2.0 2.0 1.0	1.39 1.5 1.74
23	101.5 S 27 W	60°	133.0	49.0 94.0	51.0 105.0	2.0 11.0	2.64 1.28
24	1015S 27W	65°	140.7	45.0 91.0 104.0	46.0 92.0 107.0	1.0 1.0 3.0	1.41 2.03 3.09
25	61.5S 43W	60°	116.0	29.0 37.0 70.0 (70.0 (71.0 98.0	30.0 38.0 86.0 80.0 74.0 100.0	1.0 1.0 16.0 10.0 3.0 2.0	38.93 3.49 4.86 7.32) 21.65) 2.33
27	92 S 2 E	90°	39.4	0.0 15.0 25.0 31.0	10.0 20.0 27.0 33.0	10.0 5.0 2.0 2.0	1.63 1.7 4.89 1.11
28	92 S 13 W	Core	lost in h	elicopte	r trans	port	
33	118 S 5 E	45°	46.1				

To the north of holes 25 and 18 drilling (DDH 1, 2, 5, 6, 26, 29, 39) has not encountered significant mineralization although on surface chip samples behind the Seksa shaft have given high gold numbers.

The situation in this area is still somewhat unclear and most of the drillholes may have drilled over the continuation of the mineralization.

From Seksa to the B-area some 350 m to the north, no outcrops occur and the area is covered by large amounts of boulder and scree. No holes have been drilled in this area.

On surface in the B-area a quartz arsenopyrite vein has given up to 5 g/t Au over 2 m. Four holes were drilled in section here but gave only a little mineralization.

All drill logs, sections and assays are appendixed to this report.

MINERALOGICAL AND METALLURGICAL EXAMINATIONS

I. Mineralogical investigations

Fourteen drill core samples of various lithologies from the Kolsvik area and four surface samples of mineralization have undergone petrographic examination and qualitative spectrographic analysis. The results are shown in appendix no. 6.

Six hand samples from the "C" and "F" areas have also been examined by R. Buchan for the relationship between gold and arsenopyrite. Two polished sections from each hand sample were prepared and examined using a high magnification objective of the polarizing microscope.

Gold was observed in three of the samples in four habits: as grains completely enclosed in Aspy, as blebs and elongate grains within fractures or shatter cracks in Aspy and as isolated grains in gangue.

Distribution af 68 grains observed in the three samples indicate that over 70% (by estimated volume) occur enclosed in massive arsenopyrite, about 10% within fractures in arsenopyrite and 20% within gangue. Grain sizes range from sub-micron, barely visible specks up to about $15 \times 25 \,\mu m$ with an average grain size about $6-7 \,\mu m$ diameter.

The actual grain size distribution of the 68 grains is as follows

Grain size (diameter in μ m)	No of grains
<1	7
1-3	27
3–5	18
5-10	9
>10	7

This distribution is in contrast to certain areas of the C zone where very coarse grains occur and average grain size is estimated at about $50\,\mu$ m diameter.

TABLE 3

NATIVE GOLD DISTRIBUTION IN SAMPLES FROM BINDAL

		ASSOCIATION	OF GOLD GRAINS No	of grains (Est.	% by volume
Sample	No of grains	Enclosed Aspy	Along grain boundaries of Asp	Within cracks in Aspy	In gangue
C 1	25	16 (49%)	4 (40%)	5 (11%)	_
C 2	18	13 (17%)	1 (17%)	1 (33%)	3 (63%)
С 3	0	_	-	_	_
F 1	0	-	-	_	_
F 2	25	8 (61%)	6 (26%)	11 (13%)	_
F 3	0	-	_	- Sta	_

II. Metallurgical investigations

An investigation into the recovery of gold from samples from F- and C-zones has been carried out by Lakefield Research of Canada Lmt. The reports of these investigations are enclosed as appendix 7.

TONNAGE POTENTIAL

The explored part of the area covers the ground from F to Seksa, a distance of 550 m. From the pattern of showings and diamond drill core sections the main tectonized zone is indicated to have minimum depth extension of 230 m (F = 340 m - DDH 17 = 110 m.a.s.1.

The criteria used in outlining and limiting the area of potential gold bearing rock are

- Minor structures such as shears, joints, brecciation, veins and quartz segregation.
- 2) Mineralization accompanying these minor structures, quartz, arsenopy, py.
- 3) Frequency of the minor structure as seen in drill core and on showings.
- 4) Gold assays.

The main tectonic zone thus outlined has been divided into blocks whose dimensions represent the observed mineralization potential criteria in the area. The blocks have then been reduced for topographic effects and a tonnage potential calculated for each block down to the minimum depth extension. The total tonnage of potential gold bearing area thus calculated to be associated with the main tectonic zone is in the range of 2 mill. tons. The area of potential mineralization are shown on summary sections in appendix 4.

SIGNIFICANCE OF RESULTS

From the information available it seems to be well established that a structurally controlled mineralized zone is trending from the F-area to the Seksa area - a distance of 550 m. Both on surface and in drill holes the mineralized zone is seen to have a fairly steep dip to the east and varies in width from narrow 0.5-5 m zones of cm wide veins, compact breccia zones up to 5 m in width and areas composed of several fractures and veins over substantial widths (as in the C-area). The tectonic zone from F - C gives the general impression of pinching and swelling, different minor structures related to the zone having different attitudes and occurrences along the zone.

The criteria which have been used in outlining the structurally controlled mineralized zone (the potential ore zone) are mainly geological, based on information from diamond drilling, surface and adit mapping.

The pattern and trend and frequency of minor structures and accompanying quartz and arsenopyrite within the tectonic zone are the most significant information factors.

In outlining the mineralized zone the gold values are only used as an indicator although positive gold values in most cases support and are co-incident with the geological interpretation.

Based on these criteria a tonnage potential of some 2 mill. tons is indicated.

Examination of the different minor structures show that the gold is irregularly distributed with nuggets and concentrations of smaller grains being common. Sampling of this type of mineralization using diamond drilling and/or chip samples will give an irregular pattern with overrepresentation of low numbers. In spite of this, averaging all the drill core samples in the main tectonic zone returns for the F-zone an average value of 2.09 g/t Au from 131 samples from 8 drill holes. For the C zone the average value of 634 samples was 1.46 g/t from 10 holes and 4 adits.

Sampling carried out by A/S Kolsvik Malmfelter in 1935-36 returned fairly good grades both from the C and F areas. The sample size normally brought out was in the range of $80-100\,\mathrm{kg}$ containing $6-12\,\mathrm{g/t}$ Au. The irregular and unpredictable gold values returned from samples was also noted by the early workers.

This pattern is also supported by sampling carried out by Sulfidmalm where two 100 kg samples returned 7.77 g/t Au from the F zone and 39.1 g/t Au from the C zone.

The structural/geological interpretation and tonnage potential estimation is based on surface observations and information from drill core. The significance of gold values returned from drill core is difficult to evaluate without taking into consideration the following.

- The gold bearing minor structures vary both in orientation, attitude and width.
- 2) These minor structures also vary in intensity and distribution.
- 3) The internal gold distribution within the minor structures is irregular with the occurrence of nuggets or grain concentrations.

Given the very strong nugget effect and irregular distribution both of gold and gold bearing structures any grade evaluation based on core samples and chip samples will be highly uncertain.

The effect of nuggets on sampling and sample size are well demonstrated in the following models:

A) Using an ideal model with one m³ of rock (2.5 t) containing an even distribution of equal sized gold grains totalling 12.5 g. This gives an average of 5 g/t Au.

The core sample used in assaying has a weight of $2.5 \, \mathrm{kg}$, in other words $1 \, \mathrm{m}^3$ consists of $1000 \, \mathrm{core}$ samples.

We can consider 3 cases where the 12.5 g is divided among 1) 10 grains 2) 100 grains and 3) 1000 grains. In these cases the probability of getting 1 grain in core sample and the resulting ppm value in the sample is as follows:

	1	2	3
Grains Au	10	100	1000
Probability of one grain in core sample	1/100	1/10	1
ppm Au in sample	500	50	5

B) A model which tries to take into consideration the situation at Kolsvik with the nugget effect and the irregular distribution and concentration of smaller grains will be as follows.

In this case 1 m³ contains 10.5 g/Au giving 4.2 g/t. Again one core sample is 2.5 kg giving 1000 samples/m³.

Number of samples	5	10	10	25	50	100	100	200	500
g Au in each sample	0.5	0.25	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
Probability of positive assay in core		1/100	1/100	1/40	1/20	1/10	1/10	1/5	1/2
ppm Au in sample	200	100	40	20	10	4	2	0.4	0.02

Also to be taken into consideration are mistakes introduced by core splitting and sample reducing prior to assaying.

Model B shows that the possibility for getting a low value in core sampling is statistically much higher than for getting an high or even average number.

Despite this the average value of all core samples in the "potential zone" return approx. 2 g/t Au.

Based on the models presented above one can argue that a true average grade should be at least 2 or 3 times higher than this. Attention should also be given to the two larger samples that have been taken from F and C, both of which returned high values.

CONCLUSIONS AND RECOMMENDATIONS

From the information available a tectonic mineralized gold bearing zone extends from the F-area to Seksa - a distance of some 500 m. Drilling has indicated a depth extension on the zone of $200\,\mathrm{m}$.

The geometry of the mineralized sone varies and the distribution of mineralization varies. A tonnage potential of 2 million tons is indicated.

An accurate determination of the grade of the deposit is not possible based on the available information, but arguments can be presented that indicate the possibilities of an economic grade being present.

It is recommended that the results to date warrant more work and that a program of bulk sampling in the 5-10.000 ton range be carried out in order to evaluate an average grade that can be related to a given tonnage.

HOLE	CO ODELNAME	DEADING	5.5	2				ASSAYS	-ppm Au				 	
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH	FROM	TO	LENGTH	Au	FROM	ТО	LENGTH	Au	 	
1.	0 - 0	2 7 4°	80°	-117.80 m	13.5 28.0 45.0 45.75 46.0 50.0 56.7 60.0 60.25 61.25 61.50 66.25 94.0 112.0	47.0 52.0 60.0 60.25 61.25 61.50 64.75	4.5 1.0 0.75 0.25 1.0 2.0 3.3 0.25 1.0 0.25 3.25 3.05 1.0 0.5	6.7 <0.5 <0.5 <0.5 0.8 <0.4 18 <0.4						
2.	0 - 0	227°	55°	85.30	5.25 13.0 36.0 37.0 44.0		0.75 5.0 1.0 0.3 4.0	<0.4 <0.5 <0.5 1.9 <0.5						
3.	352 S 158 E		90°	94.20	8.0 18.0 20.0 22.5 22.75 23.0 34.0 38.25 38.50 38.75	12.0 19.0 22.5 22.75 23.0 30.0 38.25 38.50 38.75 41.0	4.0 1.0 2.5 0.25 0.25 7.0 4.25 0.25 0.25 2.25	<pre></pre>	ā					

Reference point 0|0 = Skaret



HOLE	CO-ORDINATES	DEADTNA	DIP	LENGTH				ASSAYS	ppm Au				
TOLE	CO-ORDINATES	BEARTING	DIP	LENGIR	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au	
3	325 S 158 E		90°	94.20 m	53.0	57.0	4.0	.0.4					
3			30	34.20 111	58.0	59.0		(0.4				1	
					60.0	60.25	1.0	(0.4					
					60.25	60.50	0.25	5.7	60.0	61.0	١., ١	2.2	
		1			60.50	60.75	0.25	4.7 1.8	60.0	61.0	1.0	3.3	
	1				60.75	61.0	0.25	1.0					
		1			61.0	61.5	0.50	40.6			-		20
					61.5	61.75	0.25	1.4					
					61.75	62.0	0.25	0.4					
					62.0	62.25	0.25	1.3					-
					62.25	62.50	0.25	2.8	62.0	62.5	0.5	2.05	
					62.50	65.25	2.75	70.9					
				i i	65.25	65.50	0.25	10.6					
					65.50	65.75	0.25	3.9					
		1			65.75	66.0	0.25	2.8	65.25	66.50	1.25	4.88	
					66.0	66.25	0.25	5.5	121 1021				
					66.25	66.5	0.25	1.6					
					66.5	67.25	0.75	⟨0.6					
				1	67.25	67.5	0.25	5.3	1 1			1	
				!!!!	67.5	67.75	0.25	0.6					
					67.75	68.0	0.25	0.4	1 1				
					68.0	68.25	0.25	1.7	1				
					68.25	68.5	0.25	1.0	1 1				
					68.5	68. 7 5	0.25	3 4					
				l	68 7 5	70.0	1.25	€0.8	1 1				
					70.0	70.25	0.25	1.0					
					70.25	76.25	6.0	(0.4	1 1				
					76.25	76.50	0.25	1.0	1 1				
					76.50	77.25	0.75	(0.6	1 1			1	
					77.25	77.50	0.25	1.7	1 1				
				(i	77.50	79.50	2.0	8.0>					
				li i	79.50	79.75	0.25	15	79.50	80.0	0.5	15	
					79.75	80.0	0.25	15	79.50	50.0	0.5	12	
					80.0	87.50	7.50	(0.4		-X 105			
										1			
			Į,										
				Į.	1				l l			ı	

^{&#}x27; Reference point 0 0 = Skaret







² All launter in materia

HOLE	CO-ORDINATES	DEADIN	DID	LENGTH				ASSAYS	ррт Аи				
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au	
3	352 S 158 E				87.50 87.75 88.0 88.25 88.50 88.75 89.0 89.50 90.0 90.25		0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.50 0.25 0.25	3.3 2.0 37 1.9 3.5 6.7 9.6 (0.5 9.0 13.9 14.8	87.50			9.31	
	<u> </u>				90.75	93.0	2.25	€0.6					
4	352 S 158 E	226°	50°	93.05 m	13.75 14.75 15.0 17.0 17.25 17.5 17.75 18.0 18.25 18.50 21.25 28.75 29.0 29.25 29.5	15.0 17.0 17.25 17.50 17.75	0.25 2.0 0.25 0.25 0.25 0.25 0.25 0.25	<pre><0.6 1.0 </pre> <pre><0.6 1.0 7.0 7.4 0.8 </pre> <pre><0.3 1.9 </pre> <pre><0.5 </pre> <pre><0.5</pre> <pre><0.5</pre> <pre><0.5</pre> <pre><0.5</pre>	17.0 28.75	29.5	0.75	4.05 22.3	
5.	48 N 1 E	082°	45*	122.0 m									
6.	48 N 1 E	082°	65°	92.0 m									
7.	ABANDO	NED IN	VERBUR	EN AT 22	1.								

^{*} Reference point 0 0 = Skaret

* * 1.50 * (* file) 22 = 600 ×





OLE	CO-ORDINATES	DEADTH	DIP	LENGTH	ASSAYS ppm Au								
OLE	CO-ORDINATES	BEARING	DIP	LENGIH	FROM	TÖ	LENGTH	Au	FROM	TO	LENGTH	Au	
					40.0		10.0	Nil					
8,	285 S 83 E	060°	40°	88.30 m	51.0	51.25	0.25	<0.01					
					54.0	55.5	1.5	₹0.4					
					55.5	55.75	0.25	2.5					
	V II				55.75	5 6.0	0.25	1.4	55.5	56.25	0.75	5.63	
				1	56.0	56.25	0.25	13					
					56.25	58.50	2.25	€0.6					8
				1 :	58.50	58.75	0.25	3.6					
				1	58.75	59.0	0.25	28					
					59.0	59.25	0.25	4.7				E20 503	
					59.25	59.50	0.25	8.8	58.50	60.25	1.75	7.82	
					59.50 59.75	59 .75	0.25	6.1					
	ļī .				60.0	60.0 60.25	0.25	1.4					
					60.25	61.75	0.25	2.2 <0.4	_				
					61.75	62.25	0.50	1.03					
					62.25	79.0	17.75	₹0.3					
					32.23	70.0	17.75	, 0.0					
9.	373 S 113 E	052°	34.9°	94.6 m	40.25	43.0	2.75	₹0.6					
	ASS. 02. 17. 17. 12. 12.		5 5	"	45.0	45.75	0.75	(0.1					
	l i				48.0	63.75		₹0.5		1			
				-	63.75	64.0	0.25	2.4					
	1			00.40	64.0	68.0	4.0	₹0.2					
	1			PRACE	68.0	68.25	0.25	1.1					
		1			68.25	80.0	11.75	(0.2				1	
		1			80.0	80.25	0.25	3.43					
					80.25	80.50	0.25	-				1	
			l u		80.5	80.75	0.25	1.03					
					80.75	84.0	3.25	(0.2		-			
					40.0	43.0	3.0	0.1					
10.	362 S 101 E	062°	36°	144. m	43.0	50.0	7.0	0.03					
					50.0	54.0	4.0	(0.1					
					54.0	55.0	1.0	9.29					
					55.0	56.0	1.0	9.29	54.0	59.0	5.0	4.88	
					56.0	57.0	1.0	2.75	54.0	33.0	3.0	4.00	
					57.0	58.0	1.0	2.06					
		- 1			58.0	59.0	1.0	1.03			10		

^{*} Reference point 0|0 = Skaret

² All Tourist in actions

	1			T:	1			ASSAYS	ppm Au				5.
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH									
No.				-	FROM	TO	LENGTH	Au	FROM	то	LENGTH	Au	
10.	362 S 101 E	0620	36°	144.0 m	70.0	72.0	2.0	0.06	4		1 - I		
		11 1	1	- N	72.0	74.0	2.0	Nil	1		1 7	1	
		1 1	1		74.0	79.0	5.0	0.05	1 /	1	1 /	1	
	J	1 1	1	.1) //	79.0	80.0	1.0	Ni1	1 /	1		1	
				1	80.0	88.0	8.0	0.2	1	1 7	1		
1.1	262.6. 101.15	0000		† ·				 			+		-
11.	362 S 101 F	0620	55°	159.3 m	83.0	94.0	11.0	Nil	1 '	1	1 1	4 /	1
	1	l = 1	A l	1 7	94.0	103.0	9.0	0.7	1 /	f y	1 1	d r	1
	1	I = I	$\Gamma = \Gamma'$.[]		103.5	0.5	1.03	1 '	1	1 7		
	1	1	i //	$A \cup V$		114.0	10.5	0.7	1 7	1	1 7	<i>(</i> * /	
	1	()	(A' = I'		114.5	0.5	1.38	I = I	6 /	4 9	i "	
	-	1 1	<i>i</i>	4 /	114.5	115.0	0.5	1.72	4 /	f /	4 7	1 /	
		1 1	1 7			115.5	0.5	1.72	$f_{\infty} = I$	f r	4 7	1 /	1
	1	1 1	ı "			116.0	0.5	0.17		<i>i</i> '	1 9	1 /	1
	1	4 J	, J			116.5	0.5	0.34		<u>/</u>			114.0 119.0 5.0 3.38
	1 1	1	1 P		116.5	117.0	0.5	4.47	1	((114.0 119.0 5.0 5.30
	1	1 1	, 7		117.0	117.5	0.5	16.86	116.5	119.0	2.5	5.69	1
	1	/ ^ }	15			118.0	0.5	3.10	110.0	111310		1 3.03	*
	1		. !			119.0	1.0	2.0		('	1		
	1	1	, y			120.0	1.0	<0.5	1	('		,	
	1	1	, J			121.5	1.5	0.1	l = l	('	1 1	1 7	
					144.0	149.0	5.0	<0.3	1	4!		L	
12.	201 S 50 E	072*	38°	124.50	30.0	38.0	8.0	Nil					
1			/ · · · · · · · · · · · · · · · · · · ·	1	38.0	39.0	1.0	2.56	l = 1	1 1	1 -1	. 1	
11	/ I	i l		ė į	39.0	40.0	1.0	0.13	(J	4 7	1 - 1		
			j J	i j	40.0	40.5		28.8	-		1		38.0 41.5 3.5 5.22
	A		i J	A I	40.5	41.0	0.5	1.4	40.0	41.5	1.5	10.4	30.0 41.3 3.3 3.22
. 1			į J	i I	41.0	41.5	0.5	1.0	1 40.01	/ 41.5 J	$I^{1.3}$	10.4	
			į J	4 J	41.5	45.0	3.5	0.4	-		\leftarrow		
1			ı J	i I	45.0	65.0	20.0	Nil	4 J	/ /		, 1	
			Į J	ı V	66.0	75.0		<0.3	4 J	, , ,	1 1	1 1	
			, J	le l		103.0	19.0	0.4	1	, ,		, J	
			-										2
- 1		1	1	4 III		á I	i J	$\iota = 1$, [J	1	ė l	

[•] Reference point $0 \mid 0 = Skaret$



All lengthsin meters

HOLE	CO-ORDINATES	BEADING	DIP	LENGTH				ASSAYS	ppm Au				34	
HE-VIII E	CO-ORDINATES	BEARTING	DIF	LENGIN	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au		
13.	201 S 50 E	072°	20 °	63.7 m	10.0 27.0	27.0 30.0	17.0 3.0	Nil <0.4						-
5			*	The second	30.0 30.5 31.0 31.5 32.0 32.5 33.0	30.5 31.0 31.5 32.0 32.5 33.0 40.5	0.5 0.5 0.5 0.5 0.5 0.5 7.5	19 0.4 25 1.2 0.3 3.2	30.0	33.0	3.0	8.06		
					40.5 41.0 41.5	41.0 41.5 50.0	0.5 0.5 8.5	0.4 2.7 8.92 Nil	40.5	41.5	1.0	5.8		
4.	420 S 168 E	075°	42°	120.8 m	41.5	30.0	0.3	WII					NOT ASSAYED	
5.	62 S 75 E	215°	44°	93.45	18.5 20.0	20.0	1.5	Ni1 (0.3						
				X	22.0 24.0 24.25 24.50 25.50 25.75 26.0 26.25 26.75 27.0 27.25 27.50	27.25 27.50 27.75	2.0 0.25 0.25 1.0 0.25 0.25 0.25 0.25 0.25 0.25 0.25	(0.5 4.6 0.5 (0.5 1.1 0.3 1.7 (0.3 0.6 (0.3 (0.3 7.8 55						
					27.75 28.0 28.25	28.0 28.25 28.50	0.25 0.25 0.25	5.9 2.1 35				==-		

^{*} Reference point 0 0 = Skaret

All lengths in meters

					, KODD	VIK, DI	NUALEN.			RECORD			/.
HOLE	CO-CEDINATES	FEFFINA	DIF	LENGTH				ASSAYS	ррш Аи	1			
	00-012214722		1.616	125311	FERM	10	LENGTH	A.u	FROM	TO	LENGTH	F.u	
15.	62 S 7.5 E				28.50 28.75 29.0 29.25 29.50 29.75 30.0 30.25 30.50 31.30 31.25 31.30 31.75 32.0 32.25 32.50	28.75 29.0 29.25 29.50 29.75 30.0 30.25 30.75 31.0 31.25 31.75 32.0 32.25 32.50 32.75	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	40 28 5.6 17. 11 8.2 0.7 6.4 1.6 2.5 0.5 0.3 (0.4 2.5 5.7 (0.3 (0.2	27.25		11.25	26.1	N = 28
		per			32.75 33.0 33.25 33.50 33.75 34.0 34.25 34.50 34.75 35.0 35.25 35.50 35.75 36.0 36.25 36.50 36.75 37.0 37.25 37.50 37.75 38.0 38.25 38.50		0.25 0.25	0.3					$ \frac{n = 58}{\overline{x}} = \frac{19.57}{19.57} = \frac{1 \text{ mbd}}{777} $ $ 5 = \frac{57}{\overline{x}} = \frac{6.17 \text{ yrm}}{6.17 \text{ yrm}} = \frac{(\text{ex bd})}{(\text{ex bd})} $ $ 5 = \frac{11.08}{33.29} $ $ \frac{1}{9} = \frac{33.29}{10} $

All lenghtsin meters

HELL	ST-FRITNATES	PETE-NO	DIF	LENGTE				LESAYS	FREE CA				
		Time.	1/21	DE1132	NA 1994	TO	LENGTH	50	FROM	10	LENGTH	Au	
15.	62 S 7. 5 E				39.0 39.5 40.0 43.0	39.5 40.0 43.0 60.0	0.5 0.5 3.0 17.0	1.0 2.2 <0.3 Nil					
16.	62 S 7.5 E	215°	65°	89.95 m	19.5 22.0 23.0 23.25 23.50 32.50 34.0 34.5 35.0 36.5 37.0 37.50 38.5 41.5 42.0 43.5 44.0 51.0 52.0 53.0 64.0 65.0	22.0 23.0 23.25 23.50	2.5 1.0 0.25 0.25 8.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Nil 0.13 (0.3 1.2 (0.3 1.4 (0.3 5.1 2.9 1.72 0.17 0.17 0.07 1.37 (0.4 2.06 (0.2 1.72 (0.7 0.07 1.63 Nil 0.40 Nil 1.26 0.09 Nil	34.0	36.5	2.5	2.25	Prov 23.0-30.5 (Gamla netw. prover) Prov 32.0-34.0 (Borrhains) Prov 34.0-36.5 -11 Prov 36.5-44.0 -9 Prov 44.0-51.0 -4
125					02.0								

^{*} Reference point 0|0 = Skaret

All lengths in meters

HOLE	CO-ORDINATES	BEADING	DIP	LENGTH				ASSAYS	ppm Au	ı				_
	CO-CADINATES	DEARTHO	DIF	LENGTH	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au		
17.	62 S 75 E	2150	000	20.00										
17	02 5 A5 E	512,	80°	80.60	20.0	23.0	3.0	Nil						
		1 1		1	23. 0	24.0	1.0	0.08			1 1		4	
		1 1			24.0	24.5	0.5	0.16			1 1			
				ji i	24.5	32.0	7.5	0.2			1 1			
					32.0	32.5	0.5	2.06			1 1	Ì		
		II I			32.5	34.5	2.0	0.2			1 1			
	1	1 1			34.5	35.0	0.5	0.01			1 1		E	
		100			35.0	36.0	1.0	1.15			1 1			
		1		i	36.0	45.0	9.0	0.09						
		1 1			45.0	46.0	1.0	0.83						
	1	1			46.0	47.0	1.0	0.32	45.0	48.0	3.0	2.80		
					47.0	48.0	1.0	7.25						
	9				48.0	50.0	2.0	0.5						
		~ (1)			50.0	51.0	1.0	0.14			1 1			
					51.0	52.0	1.0	0.03						
					52.0	53. 0	1.0	0.45			1 1			
i					53.0	54.0	1.0	Nil			1 1			
- 1					54.0	55.0	1.0	0.37			1 1			
		1			55.0	56.0	1.0	0.04			1 1	1	. X	
)	56.0	57.0	1.0	0.06			1 1			
- 1					57.0	58.0	1.0	0.11			1 1			
					58.0	59.0	1.0	0.32			1 1			
					59.0	60.0	1.0	0.24			1 1			
l					60.0	61.0	1.0	0.06			1 1	- 1		
- 1			1		61.0	62.0	1.0	Nil			1 1			
	1		- 1		62.0	63.0	1.0	2.88	62.0	64.0	2.0	5.76		
			- 1		63.0	64.0	1.0	8.64	02.0	04.0	2.0	5.76		
			- 1		64.0	65.0	1.0	0.01						
i		1	- 1		65.0	66.0	1.0	Nil	1		1 1			
			- 1		66.0	67.0	1.0	0.01			1 1	- 1		
1			i		67.0	68.0	1.0	0.04			1 1			
		1	1		68.0	69.0	1.0	0.21			E 1	i		
- 1					69.0	75.0	6.0	Nil		Y .		1		
	1							j	1			1		
1	I													
- 1	. i) I			
- 1	1	1			ld.	1				i i	8 1	- 1	XC	

^{&#}x27; Reference point 0|0 = Skaret All lengths in meters

130 3			20.37	3	_			ASSAYS	ppm Au				
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au	
18.	62 S 7,5 E	295°	45°	9 7 .0 m	16.6 26.5 27.0 27.5 28.0 28.5 29.0 32.5	22.0 27.0 27.50 28.0 28.5 29.0 32.5 33.0	5.4 0.5 0.5 0.5 0.5 0.5 0.5	 60.6 1.26 6.84 4.14 7.86 1.20 0.9 3.25 	26.5	29.0	2.5	4.26	24-26.5
					33.0 34.0 34.5 35.0	34.0 34.5 35.0 38.0	1.0 0.5 0.5 3.0	(0.2 1.96 2.53 (0.1	34.0	35.0	1.0	2.24	
19.	62 S 7,5 E	048*	66°	56.3 m	7.5 9.0 9.5	9.0 9.5 15.0	1.5 0.5 5.5	<0.2 2.87 <0.8					
20.	130 S 30 E	08 7°	45°	89.8 m	15.0 17.5 18.0 24.0 34.0 47.0	17.5 18.0 22.0 26.0 38.0 67.0	2.5 0.5 4.0 2.0 4.0 20.0	(0.2 1.53 (0.1 (0.1 (0.1 (0.4					
21.	1015 S 27 W		90°	156.85 m	2.0 8.0 9.0 10.0 11.0 12.0 13.0 17.0 18.0 19.0	8.0 9.0 10.0 11.0 12.0 13.0 17.0 18.0 19.0 20.0	6.0 1.0 1.0 1.0 1.0 4.0 1.0	Nil 3.48 0.02 0.29 0.01 0.05 Nil 0.21 0.07 0.03					ı

[•] Reference point $0 \mid 0 = Skaret$

All lengths in meters

	Note: Administration of the second		TE SOUT	1				ASSAYS	ppm Au					
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au		
21.	101,5 S 27 W		90°		26.0	27.0	1.0	Nil						
21.	10.50				27.0	28.0	1.0	0.63						
					28.0	29.0	1.0	0.01						
					29.0	30.0	1.0	Nil			1			
					30.0	31.0	1.0	0.07						
					31.0	32.0	1.0	0.14						
	1				32.0	33.0	1.0	8.66	31.0	35.0	4.0	2.35		
	1				33.0	34.0	1.0	0.11					V.	7
					34.0	35.0	1.0	0.51						
					35.0	36.0	1.0	0.01						
	1				36.0	37.0	1.0	0.03						
				1	37.0	38.0	1.0	0.10				li li		
	-				38.0	39.0	1.0	0.01						
	1	1 1			39.0	40.0	1.0	0.02	2.					
		l 1			40.0	41.0	1.0	0.27						
					41.0	45.0	4.0	Ni 1						
		1			45.0	46.0	1.0	0.47						
		1			46.0	48.0	2.0	Nil			1 1			
		21			61.0	62.0	1.0	Nil						
					69.0	70.0	1.0	Nil				H H		
					72.0	73.0	1.0	Nil						
					78.0	80.0	2.0	0.03						
	1				81.0	82.0	1.0	Nil						
	11				88.0	89.0	1.0	Nil	1		j l			
					105.0	110.0	5.0	Nil						
					135.0	145.0	10.0	Nil			-			3
														×
22.	92 S 2 E	2470	45°	38 m	0.0	1.0	1.0	1.04				ii ii		
					1.0	2.0	1.0	1.74						
					2.0	3.0	1.0	0.03					N	
					3.0	4.0	1.0	0.41					N	
					4.0	5.0	1.0	0.04					(
					5.0	6.0	1.0	0.05						
					6.0	7.0	1.0	0.01						
					8.0	9.0	1.0	0.48						
*		- 1			9.0	10.0		0.08						
		1			10.0	11.0	1.0	Nil		l	1 //	li li		

[•] Reference point 0 0 = Skaret

^{&#}x27; All lengthsin meters

HOLE	CO-OFDINATES	BEADING	DID	LENGTH		4.			рота Ац					
IMEE:	CO-CHIEFFATES	DEARING	Diffe	-LENGIII	FROM	TO	LENGTH	II Au	FROM ,	TO	LENGTH	Au		
22.	92 S 2 E	2470	45°	38 m	11.0	12.0	1.0	0.76						
<i>ce</i> .	92 5 2 E	247	45	30 111	12.0	13.0	1.0	0.19						
				İ	13.0	14.0	1.0	Nil				Į.		20
				1	14.0	15.0	1.0	0.05	l					
				1	15.0	16.0	1.0	1.91						
					16.0	17.0	1.0	0.02					1	
					17.0	18.0	1.0	0.40	1					
				ľ	18.0	19.0	1.0	Nil				(4)		
					19.0	20.0	1.0	1.86						
				1	20.C	21.0	1.0	0.02						
					21.0	22.0	1.0	0.27						
					22.0	23.0	1.0	2.33						
					23.0	24.0	1.0	0.67						
					24.0	26.0	2.0	Nil						
					26.0	27.0	1.0	1.74	1					
					27.0	28.0	1.0	0.06		1	1			
	1				28.0	31.0	3.0	Nil	i		19			
					31.0	32.0	1.0	0.02						
		l d			32.0	33.0	1.0	0.11						
	1	0			33.0	34.0	1.0	0.15						
	l i				34.0	35.0	1.0	0.14	1					
					35.0	36.0	1.0	0.72						
					36.0	37.0	1.0	0.18						
					37.0	38.0	1.0	0.01					•	
	227	0050	7185										0	
23.	1015 S 27 W	095°	60°	133 m	40.0	41.0	1.0	0.49						
					41.0	42.0	1.0	0.01	1				1.7	
					42.0	43.0	1.0	0.08	1	1			()	
					43.0	44.0	1.0	Nil						
					44.0	45.0	1.0	0.05						
				1	45.0	46.0	1.0	0.37						
					46.0	47.0	1.0	0.01						
				H II	47.0	48.0	1.0	Nil				1		
	i I				48.0 49.0	49.0 50.0	1.0	0. 0 3 1.19						
•				li,	50.0	51.0	1.0	4.09	49.0	51.0	2.0	2.64		
					30.0	51.0] 1.0	4.09						

Reference point 0|0 = Skaret

^{&#}x27; All lengths in meters

	ľ			2				ASSAYS	роп Аи					
HOLE	CO-ORDINATES	PEARING	DIF	LENGTH	FROM	TO	LENGTH	Αu	FROM	TO	LENGTH	Au		
23.	1015 S 27 W	095°	60°	133 m	51.0 52. 0		1.0	0.04				le		
					53.0		1.0	0.05						
					54.0	55.0	1.0	1.45			1			
		1			55.0	56.0	1.0	0.42			1 1			
					56.0	57.0	1.0	0.03			1 1			
					57.0	58.0	1.0	0.07						
					58.0	59.0	1.0	0.05	1					
				1	59.0	70.0	11.0	0.02			1 1			
					70.0		1.0	0.96						
		1			71.0		4.0	0.02			1 1			
				1	75.0		2.0	0.76						
	+				76.0		7.0	0.06						
				1	83.0		2.0	0.16						
		1		1	85.0		7.0	0.06						
		1		Į.	92.0		2.0	0.16						
		1			94.0		1.0	0.51						
•				į.	95.0		1.0	2.70						5
				1	96.0		1.0	1.30		105.0	110	1.28		
				1	97.0		1.0	1.98	94.0	105.0	11.0	1.20		
				1	98.0		1.0	0.24					1	
		1		1		100.0	1.0	2.12						
				1	100.0		1.0	0.97					1	
				1	101.0		1.0	0.40						
		l i		I .	102.0		1.0 1.0	1.67 0.36	1					
					104.0	104.0	1.0	0.75	1		1 1			
						110.0	5.0	0.08			1			•
						-								
24.	1015 S 27 W	095°	65°	140.7	35.0		10.0	Nil	1					
					45.0		1.0	1.41	1					
					46.0		4.0	0.04	1				1	
				1	90.0		1.0	0.14						
					91.0		1.0	2.03						
_						100.0	8.0	Nil	1					
•					100.0	101.0	1.0	0.06	1	1				

Reference point 0 0 = Skaret

^{&#}x27; All lengths in meters

HOLL	CO-ORDINATES	BEARTMO	DIP	LENGTH				ASSAYS	ppm Au				
- July	CO-ORDINATES	Senit Int	DI	LENGIN	FROM	TO	LENGTH	Au	FROM	TO	LENGTH	Au	
24.	101,5 S 27 W				101.0	102.0	1.0	0.34					
-					102.0	103.0	1.0	0.03					
				E	103.0	104.0	1.0	0.03					
					104.0	105.0	1.0	3.23					†
		1		1	105.0	106.0	1.0	3.16	104.0	107.0	3.0	3.09	1
					106.0	107.0	1.0	2.89					
	N .				107.0	110.0	3.0	0.06					1
					120.0	121.0	1.0	0.43					
					121.0	128.0	7.0	0.06					
25.	61,5 S 43 W		60°	116.0 m	25.0	29.0	4.0	Nil					
	1				29.0	30.0.		38.93					
	1				30.0	31.0	1.0	0.09	41	1		1	
		1 1			31.0	32.0	1.0	0.24					
					32.0	37.0	5.0	0.05					
					37.0	38.0	1.0	3.49					
	•				38.0	39.0	1.0	0.66					72.1
					3 9.0	44.0	5.0	0.06					
					44.0	45.0	1.0	0. 3 6					
					50.0 66.0	66.0 70.0	16.0 4.0	Nil 0.04		1			
					70.0	71.0	1.0	0.60					
					70.0	72.0	1.0	4.09					
					72.0	73.0	1.0	41.64				9	
	l i				73.0	74.0	1.0	19.21			1		
				1	74.0	7 5.0	1.0	0.57		1			
				1	75.0	76.0	1.0	2.0					
					76.0	77.0	1.0	0.52	70.0	86.0	16.0	4.86	70.0 - 80.0 10.0 7.32
					77.0	78.0	1.0	0.22	92	0			
					78.0	79.0	1.0	0.75					
					79.0	80.0	1.0	3.61					
					80.0	81.0	1.0	0.24				1	
			4		81.0	82.0	1.0	0.72					
			1	1	82.0	83.0	1.0	0.33		1			
					83.0	84.0	1.0	0.32	9				
					84.0	85.0	1.0	0.62	, II	i)	= 1	
1		1 4	3	t U	85.0	86.0	1.0	2.40	,	2	4		<u> </u>

Reference point 0|0 = Skaret

^{&#}x27; All lengthsin meters

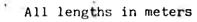
	1				1,				ARRAVE	all and the Ar	. +5			 	
HOLE	CO-ORDIN	ATES	BEARING	DIP	LENGTH	CDOM	mo	LENGTH	ASSAYS	ppm Au		Linnon			
		_				FROM	TO	LENGTH	Au	FROM	OT	LENGTH	Au	 	
25.	61.5 S	43 W			N.	86.0 90.0 93.0 98.0	90.0 93.0 98.0 99.0	4.0 3.0 5.0 1.0	0.10 0.41 0.18 3.57						
						99.0	100.0	1.0	1.10	98.0	100.0	2.0	2.33		
26.	23 S	25 W		31°	91.10 m	13.0 14.0 24.0 75.0	14.0 16.0 40.0 91.0	1.0 2.0 16.0 16.0	0.18 0.02 Nil Nil						125
27.	92 S	2 E		900	39.4	0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0	1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0		4.6 1.8 1.0' 0.96 0.35 0.44 3.55 0.47 0.39 2.78 0.16 0.03 0.10 0.16 0.23 0.90 2.02 2.29 0.35 2.94 Nil 0.03 0.64 0.22 0.03	15.0	20.0	5.0	1.7		
	Reference All length	,		1	•	25.0 26.0	26.0 27.0 28.0	1.0 1.0 1.0	9.26 0.52 0.18	25.0	27.0	2.0	4.89		

	i ·			1					ASSAYS	ррт Ац				10.
CCLE	CO-ORD	ENATES	BEARING	DIP	LENGTH	_ ZROM	10	LENGTH	Au	FROM	TO	LSNGTH	Au	
				 		- 1.1001	1,0	LENGIN	7554	FROM	1.0	Land In	Au	
27.	00.0	0.5				20.0			0.00					
21.	92 S	2 E		1		28.0	31.0	3.0	0.03	1				
	1				i	31.0	32.0	1.0	1.55					
	1				1	32.0	33.0	1.0	0.68					
					i .	33.0	34.0	1.0	0.04	1 1				
					1	34.0	35.0	1.0	0.10	1 1		1 1		
į.	ł					35.0	36.0	1.0	0.31	1 1		1 1		
						36.0	37.0	1.0	0.66	1		1		
	!					37.0	38.0	1.0	0.40	1 1				
1						38.0	39.0	1.0	0.27	1 1				
						39.0	40.0	1.0	0.04	1 1				
28	92 S	13 W	Hole	lost i	helicopt	er tran	sport							7
	32 5	15 #	1		I merreope	I	 							
29.	23 S	25 W		75°	45.20 m	9.0	11.0	2.0	0.06					
,	22000				1 40.20	11.0	12.0	1.0	0.68	1 3				
						12.0	24.0	12.0	Nil	1 1				
						1								
30	165 N	28 W	260°	45°	77.1					1 1				NOT ASSAYED
		_			20 1					1				Not hobitize
31.	341 N	53 W	270°	80°	49.15	1.5	7.0	5.5	0.02					
- 1						7.0	8.0	1.0	1.17			1 1		
- 1				11 1		8.0	9.0	1.0	0.14	1 1	_	1 4		
- 1						9.0	10.0	1.0	0.23		-	40 H		
- 1						10.0	12.0	2.0	Nil	1 1		1 1		
1						12.0	14.0	2.0	0.03			1 1		
- 1						14.0	15.0	1.0	Nil			1 1		
- 1		- 1	1			15.0	18.0	3.0	0.04	1 1		1 1		
						18.0	20.0	2.0	Nil					
														NOT ASSAYED
32.	340 N	48 W	90°	65°	95.6									
		- 1		,		1	V 9	k l		l l		1 1	1	

Reference point 0|0 = Skaret
All lengths in meters

						20,111,	DINDALER						
.xxxivar			0.50	2				ASSAYS	ppm Au				
HOLE	CO-ORDINATES	BEARING	DIP	LENGTH	FROM	TO	LENGTH	Au	FROM	то	LENGTH	Au	
33.	118 S 5 E	256°	45°	46.1	1.0 2.0 7.0 9.0 15.0 17.0 25.0 27.0 37.0 44.0	25.0 27.0 37.0	1.0 5.0 2.0 6.0 2.0 8.0 2.0 10.0 7.0 2.0	Nil 0.18 Nil 0.27 Nil 0.08 Nil 0.03 Nil 0.02		0			
34.	340 N 48 W		90°	73.1		21.0	6.0	Nil 0.16					
35.	341 N 53 W	90°	65 °	95.6									
36.	300 N 42 E		36 °	271.5	53.0 56.0 115.0 117.0 122.0 123.0 124.0 210.0	122.0 123.0 124.0	1.0 3.0 2.0 2.0 5.0 1.0 1.0 8.0 21.0	Nil 0.12 Nil Nil 0.02 0.28 0.83 0.04 0.02 Nil					25
			÷.										

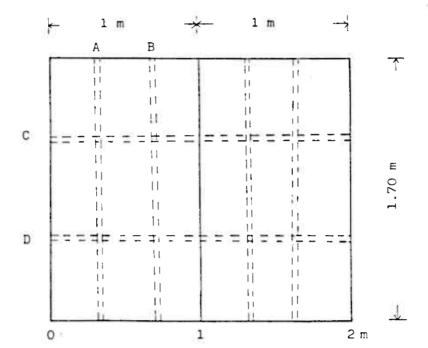
Reference point 0|0 = Skaret



APPENDIX

Channel samples from adits in the Kolsvik area.

The adits were sampled on one wall over 1 m intervals. 4 channel samples being taken over 1.70 m² as shown below.



	Location	Sample	no.	4	Gold g/t	Average gold g/t
1	÷ 1 - 0 m	3242	Α		1.64	
			В		22.94	
_			C		0.58	7.23
			D		3.78	
}	0 - 1 m	3201	A		16.29	
•			В		2.62	10.89
			С		16.49	
			D		8.18	
	1 - 2 m	3202	A		3.09	
, ●			В		1.56	3.87
Į			С		7.41	
1			D		3.43	a e
	2 - 3 m	3203	Α		0.03	
1			В		0.42	0.27
}			С		0.14	0.2
			D		0.49	
	3 - 4 m	3204	Α		1.04	
			В		0.08	0.37
			С		0.25	8.8
ð			D		0.10	€:
	4 - 5 m	3205	_A		1.25	
			В		2.68	1.48
			С		0.51	2.40
}			D		Sample missing	
	5 - 6 m	3206	А		1.27	
,			В		0.98	0.65
			C		0.21	
<u>.</u>			D		0.16	
	6 - 7 m	3207	Α		0.39	
1			В		0.65	0.82
			С		1.67	0.02
	e		D		0.56	

Location	Sample no.	Gold g/t	Average gold g/t
7 - 8 m	320 8 A	0.45	
	В	1.18	1.16
	С	0.28	
	D	2.74	
8 - 9 m	3209 A	0.52	
	В	2.65	4.72
	С	0.62	17. ffs.
•	D	15.09	
9 - 10 m	3210 A	1.14	
	В	0.18	
	c	4.62	1.56
	D	0.30	
	D	0.30	
10 - 11 m	3211 A	1.06	
	В	5.37	2.42
	C	2.84	
	D	0.41	
11 - 12 m	3212 A	1.06	
	В	7.58	100
<u> </u>	С	35.22	11.15
3	D	0.76	*7
2000			
12 - 13 m	3213 A	4.39	
×	В	1.63	3.41
	С	7.43	
	D	0.21	
13 - 14 m	3214 A	0.99	
	В	0.41	0.74
	С	1.51	0.74
	D	0.07	

	Location	Sample no.	Gold g/t	Average gold g/t
	14 - 15 m	3215 A	0.65	
		В	0.47	0.35
		С	0.07	0.33
		D	0.21	
	15 - 16 m	3216 A	Nil	
		В	0.03	0.04
		С	Nil	0.04
•		D	0.14	
	16 - 17 m	3217 A	0.05	
2		В	0.07	0.06
		c	0.01	0.06
		D	0.12	
	17 - 18 m	3218 A	0.03	
		В	0.10	0.05
		С	0.02	0.05
		D	0.07	
	18 - 19 m	3 219 A	0.07	
8		В	0.08	0.50
		С	2.06	0.56
3		D	0.10	v
. <u>4</u> e	19 - 20 m	3220 A	0.06	
•		В	0.07	
		С	1.13	0.38
		D	0.28	
	20 - 21 m	3221 A	0.04	
		В	0.06	
		C	0.03	0.04
		D	0.28	

Location	Sample no.	gold g/t	average gold g/t
21 - 22 m	3222 A	0.04	
	В	0.03	0.70
	С	0.14	0.10
	D	0.20	
22 - 23 m	3223 A	0.03	
	В	0.03	0.12
	С	0.22	
	D	0.21	
23 - 24 m	3224 A	0.00	
	В	0.23	
	C	0.86	0.44
		0.04	
	D	0.62	
24 - 25 m	3225 A	0.88	
	В	0.99	0.76
	С	0.08	0.76
	D	1.10	
25	in war		
25 - 26 m	322 6 A	0.03	
	В	0.07	0.15
	С	0.36	
	D	0.14	
26 - 27 m	32 2 7 A	0.05	
	В	0.27	
	C	0.02	0.15
	D	0.25	
27 - 28 m	3228 A	0.03	
	В	0.05	0.45
	С	0.21	_ 0.45
	D	0.61	
28 - 29 m	2220	0.11001	
EO - E3 III	3229 A	0.03	
	В	Nil	0.03
	C	0.01	
	D	0.07	

	Location	Sampl e	no.	gold g/t	average gold g/t
	2 9 - 30 m	3230	Α	0.01	
			В	0.14	0.05
			С	0.03	0.05
			D	0.03	
	30 - 31 m	3231	A	0.04	
			В	1.86	6.40
			C	23.04	
			D	0.67	
	31 - 32 m	323 2	Α	1.02	
			В	Sample missing	0.88
			С	0.85	7,9,700
			D	0.78	Ģ.
	32 - 33 m	3233	A	1.79	
			В	0.22	0.67
			C	0.27	0.67
			D	0.42	
3	3 - 34 m	3234	A	10.12	
			В	0.70	5 60
			С	0.16	5.68
			D	11.73	24
3	4 - 35 m	3235	A	0.46	
			В	0.18	0.22
			C	0.07	0.22
			D	0.18	
3	5 - 36 m	3236	A	Nil .	
			В	0.01	Nil
			C	0.01	MII
			D	Nil	
3	7 - 38	3237	A	Nil	
			В	Nil	
			С	Nil	Nil
			D	Nil	

Location	Sample no.	gold g/t	average gold g/t
37 – 38 m	3238 A	0.03	
	В	Nil	0.28
	C	0.02	0.20
	D	1.08	
38 - 39 m	3239 A	0.01	
	В	Nil	N/4 3
	С	Nil	Nil
	D	Nil	
39 - 40 m	3240 A	Nil	
	В	Nil	Nil
	C	Nil	MIT
	D	Nil	
40 - 41 m	3241 A	Ni 1	
	В	Nil	
	С	Nil	Nil
	D	Nil	

O - 1 m	Location	Sample :	no.	gold g/t	average gold g/t
C 0.17 D 1.57 1 - 2 m 3332 A 0.20 B 0.24 C 0.17 D 0.37 2 - 3 m 3333 A 0.29 B 0.34 C 0.31 D Ni1 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13	O - 1 m	3331	A	6.61	
C 0.17 D 1.57 1 - 2 m 3332 A 0.20 B 0.24 C 0.17 D 0.37 2 - 3 m 3333 A 0.29 B 0.34 C 0.31 D Ni1 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			В	0.13	2 12
1 - 2 m			C	0.17	2.12
B 0.24 0.24 0.24 0.24 0.37 0.24 0.37 0.37 0.23 0.34 0.34 0.31 0.23 0.31 0.23 0.31			D	1.57	
B 0.24	1 - 2 m	3332	A	0.20	
C 0.17 D 0.37 2 - 3 m 3333 A 0.29 B 0.34 C 0.31 D Nil 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					willed
D 0.37 2 - 3 m 3333 A 0.29 B 0.34 C 0.31 D Ni1 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					0.24
B 0.34 0.23 C 0.31 D Nil 3 - 4 m 3334					
B 0.34 0.23 C 0.31 D Nil 3 - 4 m 3334	2 - 3 m	2222	Δ	0.20	
C 0.31 D Nil 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13		5555			£
D Nil 3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					0.23
3 - 4 m 3334 A 0.01 B 0.19 C 0.25 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					
B 0.19 C 0.25 0.13 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			D	NII	
C 0.25 0.13 D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13	3 - 4 m	3334	Α	0.01	
D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			В	0.19	
D 0.07 4 - 5 m 3335 A 0.17 B 0.14 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			С	0.25	0.13
4 - 5 m 3335 A 0.17 B 0.14 0.48 C 0.87 0.74 5 - 6 m 3336 A 0.24 B 3.41 1.13 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			D	0.07	(7.
B 0.14 0.48 C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13	4 - 5 m	3335	Α	0.17	
C 0.87 D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 1.13	162 R 407/				
D 0.74 5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					0.48
5 - 6 m 3336 A 0.24 B 3.41 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13					
B 3.41 1.13 C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13			_	9.16.	
C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66 1.13	5 - 6 m	3336	Α	0.24	
C 0.25 D 0.62 6 - 7 m 3337 A 0.71 B 0.66			В	3.41	1.13
6 - 7 m 3337 A 0.71 B 0.66			C	0.25	4.45
B 0.66			D	0.62	
B 0.66	6 - 7 m	3337	A	0.71	
1.13					
2.00					
D 0.59					

Z

Location	Sample	no.	gold g/t	average gold g/t
7 - 8 m	333 8	Α	0.14	
3		В	0.03	0.09
		C	0.03	
		D	0.15	
8 - 9 m	3339	Α	0.03	
		В	Nil	0.04
		С	Nil	
		D	0.15	
9 - 10 m	3340	A	0.02	
		В	0.14	787748
		С	0.03	0.05
		D	Nil	
	225		rottes:	p) 9'
10 - 11 m	3341	Α	0.39	
		В	0.50	0.42
		C	0.24	
		D	0.55	
11 - 12 m	3342	A	0.04	
		B	0.10	0.06
		С	0.07	
		D	0.05	9
12 - 13 m	3343	A	0.03	8
		В	0.06	
		С	0.03	0.04
		D	0.04	
13 - 14 m	3344	Α	0.07	
		В	0 17	0.10
		C	0.13	
		D	0.04	
14 - 15 m	3345	Α	0.07	
		В	0.05	1
		С	Nil	0.03
		D	Nil	
			25120	

Location	Samp1	e no.	gold g/t	average gold g/t
15 - 16 m	3346	Α	Nil	
		В	0.17	. 22
		C	0.03	0.05
		D	Nil	
16 - 17 m	3347	Α	0.86	
		В	0.03	0.22
		C	Níl	
		D	Ni1	
17 - 18 m	3348	А	Nil	
	0.99.00	В	0.10	
		С	0.24	0.12
1.50		D	0.09	
		_	0.03	
18 - 19 m	3349	Α	0.16	H
		В	Nil	1780 - 0720-1
		C	Ni1	0.05
		D	0.03	
19 - 20 m	3350	Α	0.01	
		В	0.03	
		C	0.01	0.01
		D	Nil	
20 - 21 m	3351	A	ME T	17. 78
Silver Andrews Bress	0001	В	Nil	
		C	Nil	Nil
		D	0.05	•/
		D	NII	•
21 - 22 m	3352	Α	0.26	
		В	0.51	
		C	0.72	0.37
		D	Nil	

SOUTH SKAR ADIT

Sampled on south wall

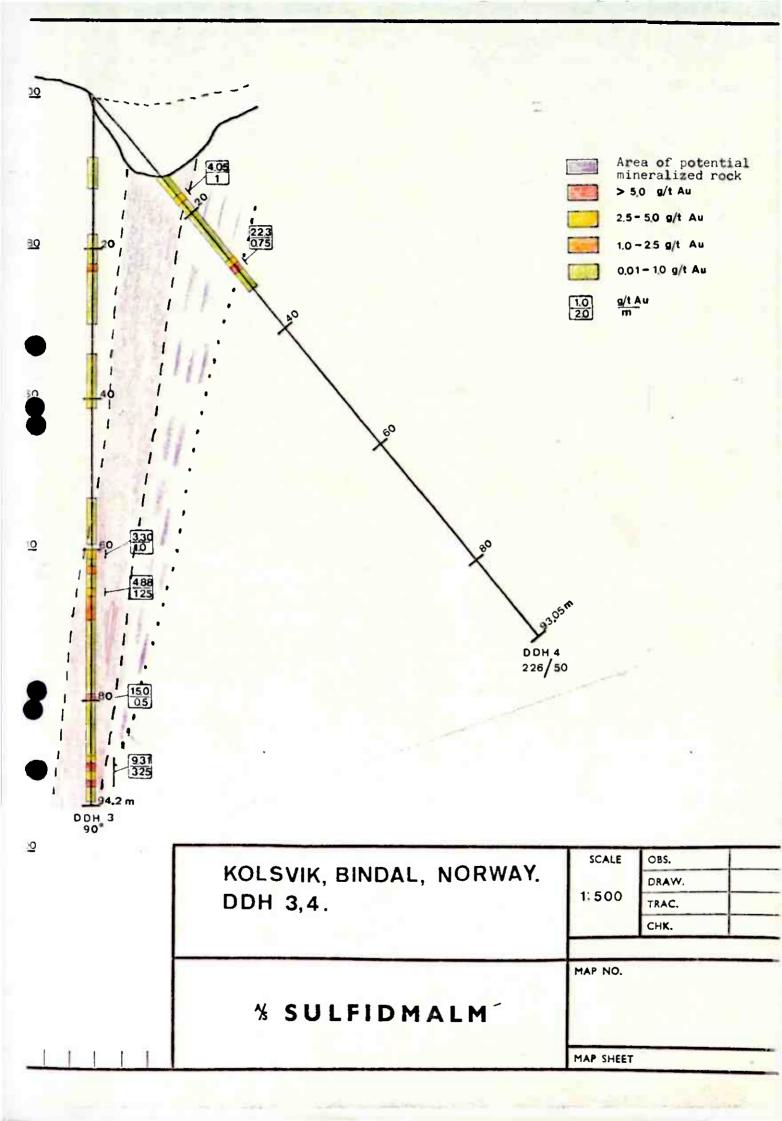
Location	Sample	no.	gold g/t	average gold g/t
O - 1 m	3251	A B C	0. 05 0.20 Nil	0.08
		D	0.09	
1 - 2 m	3252	Α	0.03	
		В	0.05	0.05
		С	0.03	
		D	0.10	
2 - 3 m	3253	Α	0.08	
		В	0.07	0.05
		C	0.03	
		D	0.03	전
3 - 4 m	3254	Ä	0.13	
		В	0.16	0.30
		С	0.81	0.30
		D	0.10	
4 - 5 m	3255	A	0.22	
		В	0.10	0.15
		С	0.12	0.15
		D	0.17	
5 - 6 m	3256	А	0.13	
		В	2.04	*
		С	0.16	0.62
		D	0.15	
6 - 7 m	3257	Α	0.98	
		В	1.17	
		С	0.19	0.65
		D	0.28	
		2	0.20	

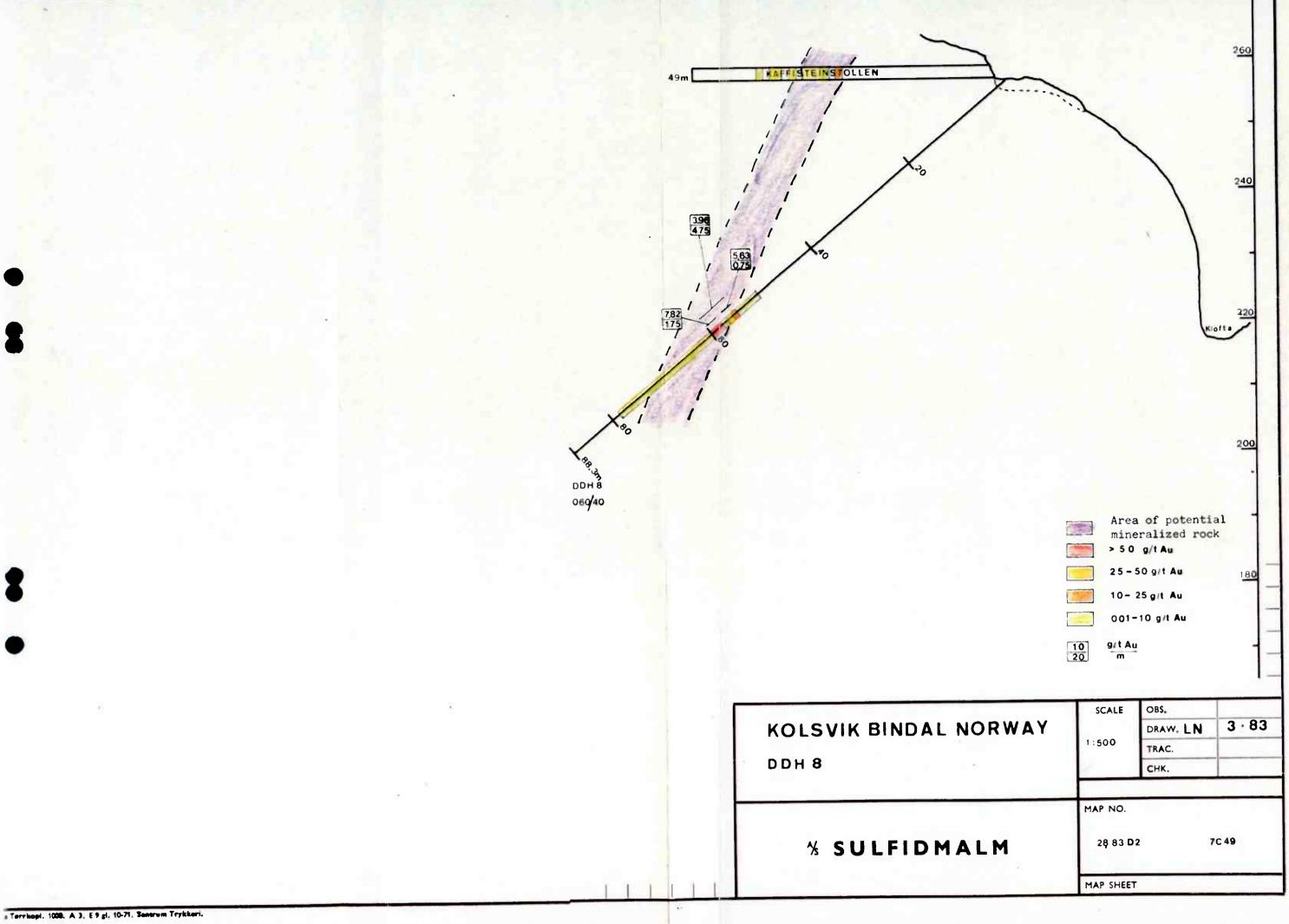
Location	Sample	no.	gold g/t	average gold g/t
7 - 8 m	3258	Α	0.49	
		В	0.01	0.00
		C	0.55	0.32
		D	0.24	
8 - 9 m	32 59	Α	0.02	
		B	Nil	0.01
		C	0.03	0.01
		D	0.01	
9 - 10 m	3260	Α	Nil	
		В	Nil	(453)
		C	0.01	Nil
		D	Nil	*
10 - 11 m	3261	А	0.16	
		В	8.34	****
		C	7.17	3.90
		D	0.08	
11 - 12 m	3262	Α	0.65	
		В	0.95	2000
		С	0.21	0.48
		D	0.11	¥
12 - 13 m	3263	A	0.14	
		В	3.05	8
		•	0.55	0.98
		D	0.15	

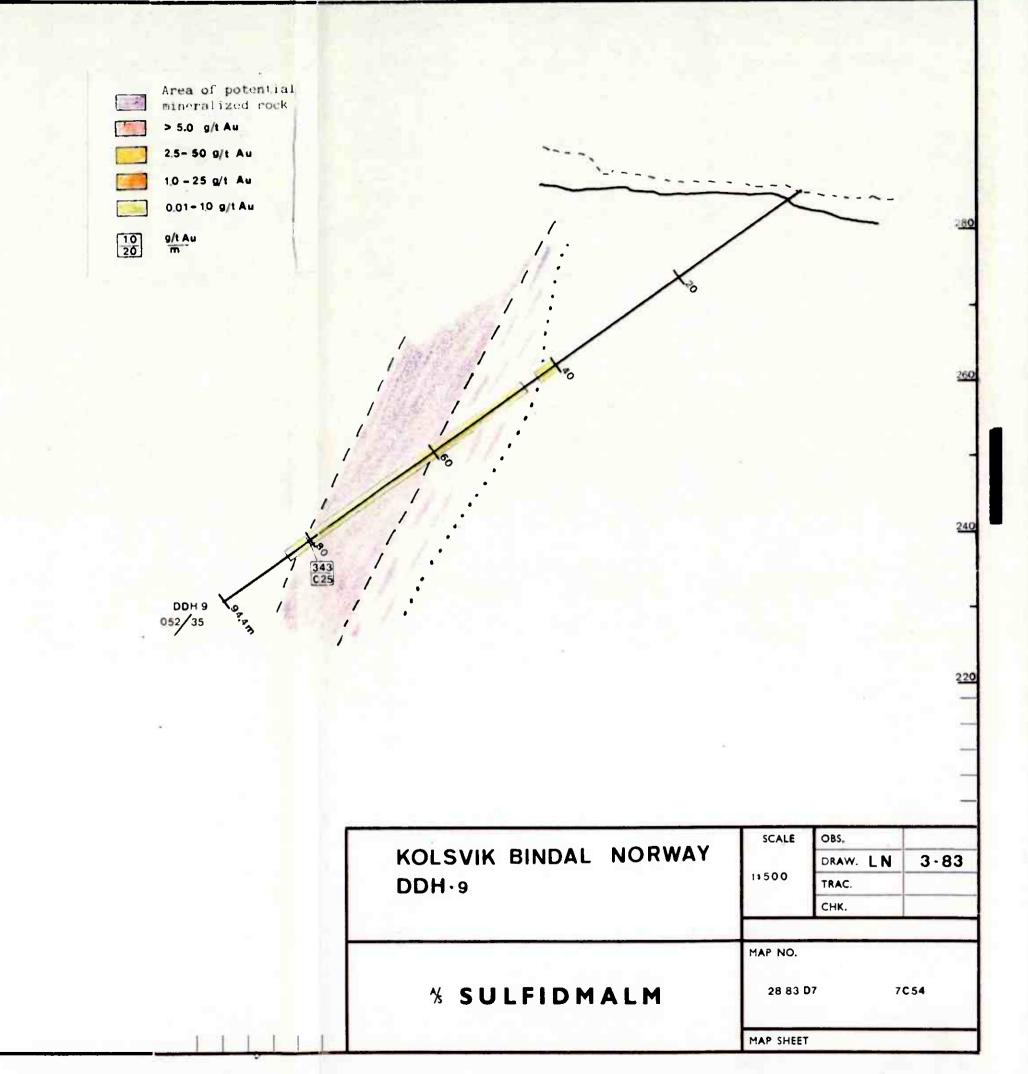
NORTH SKAR ADIT Sampled on north wall

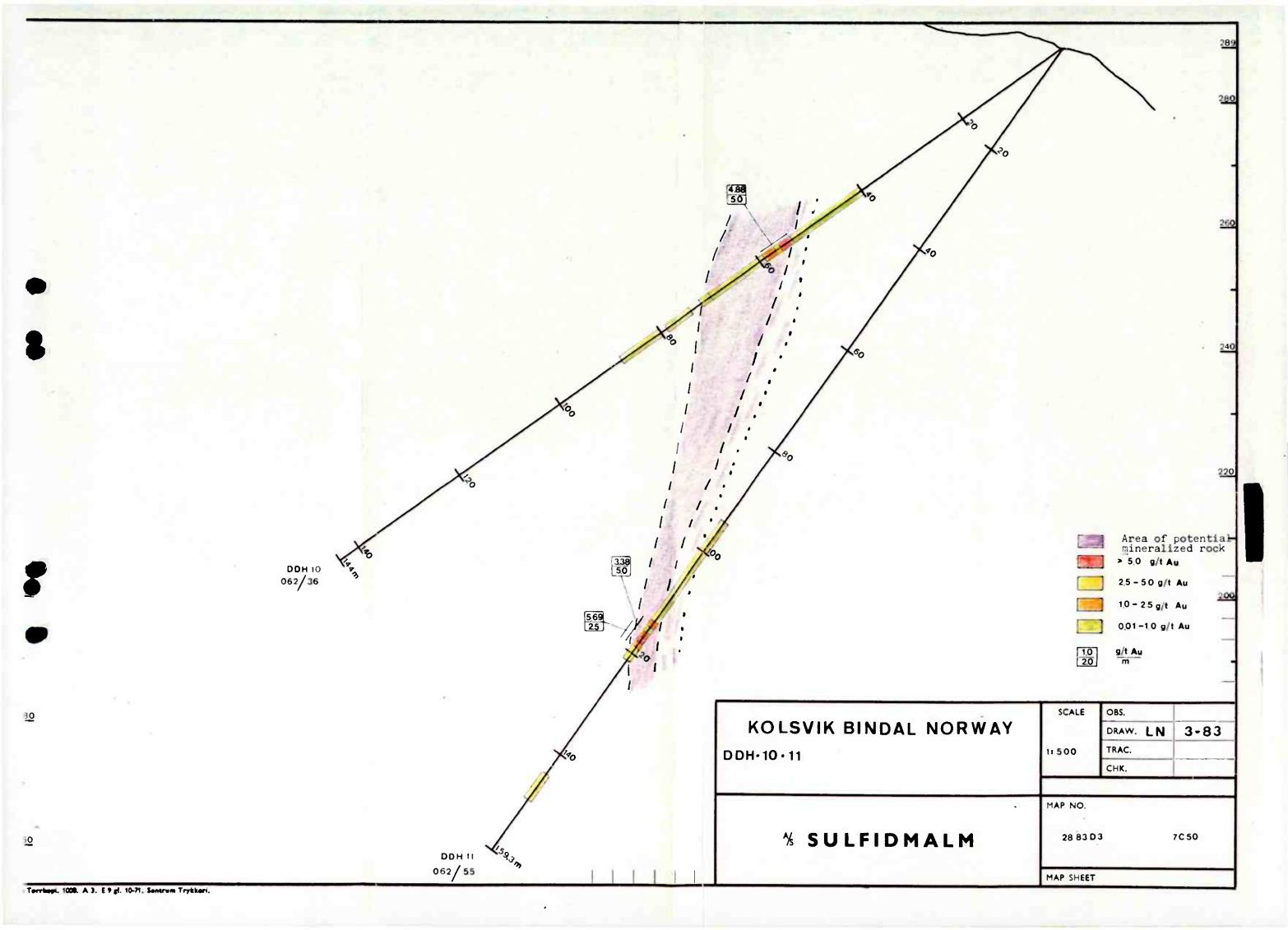
Location	Sample	no.	gold g/t	average gold g/t
1 - 2 m	3314	Α	Nil	
		В	Nil	0.01
		С	Nil	0.01
		D	0.06	
2 - 3 m	3301	Α	0.03	
		В	0.31	0. 16
		C	0.22	0.10
		D	0.07	
3 - 4 m	3302	Α	0.02	
		В	0.07	0.06
		C	Nil	0.00
		D	0.16	
4 - 5 m	3303	Α	0.96	
		В	0.29	0.81
		C	0.44	
		D	1.56	
5 - 6 m	3304	Α	0.21	
		В	1.44	0.53
		С	0.31	
		D	0.16	
				(*)
6 - 7 m	3305	A	1.22	
		В	0.19	0.68
		С	0.76	
		D	0.55	
7	0.000			•
7 - 8 m	3306	A	0.12	
		В	0 03	0.17
		C	0.14	
		D	0.38	

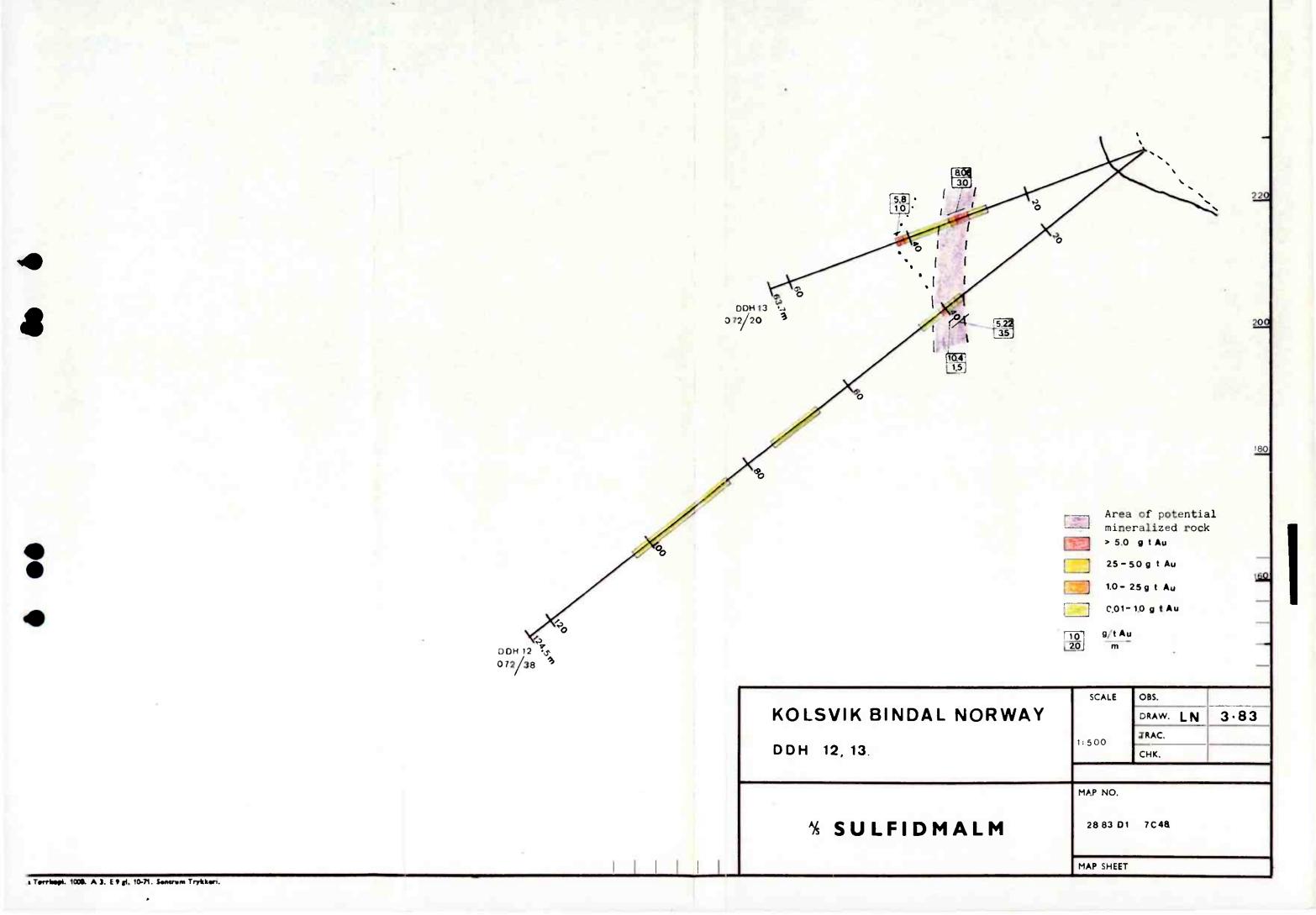
Location	Sample no.	gold g/t	average gold g/t
8 - 9 m	3307 A	1.22	
	В	0.68	0.00
	С	0.22	0.30
	D	0.20	
9 - 10 m	3 30 8 A	2.45	
	В	B 0.05	0.68
	C	0.06	0.00
	D	0.16	
10 - 11 m	330 9 A	Nil	Nil
	В	Nil	
	C	0.02	
	D	Nil	
11 - 12 m	3310 A	Nil	0.03
	В С	0.10	
		0.02	
	D	0.10	
12 - 13 m	3311 A	Nil	0.01
	В	Nil	
		0.06	
	D	Nil	
13 - 14 m	3312 A	0.46	
	В С	0.04	0.17
		0.17	
	D	0.03	
14 - 15 m	3 313 A	Nil	
	3313 A	Nil	Nil
	C	0.01	
	D	Nil	
	D	WII	

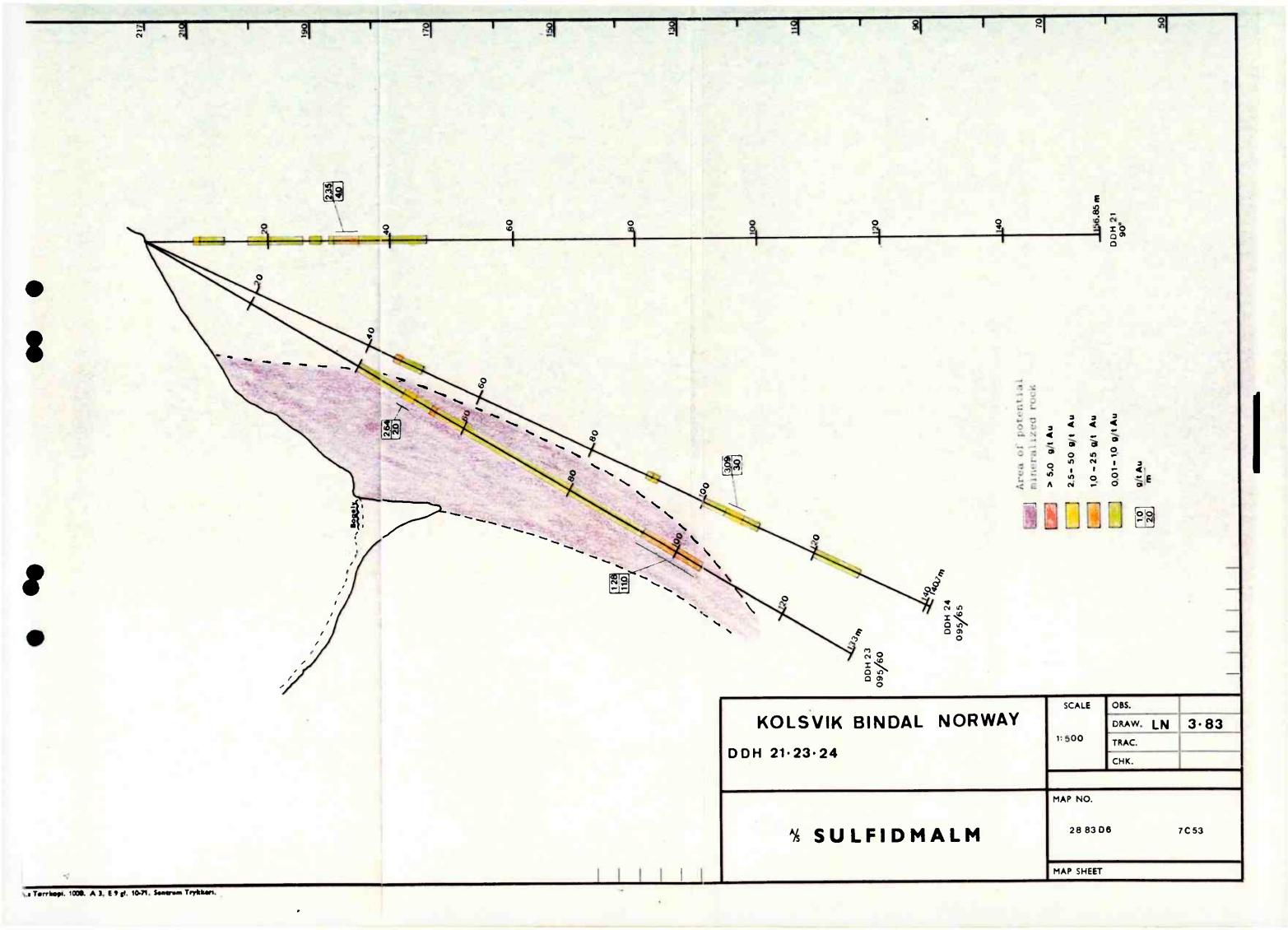


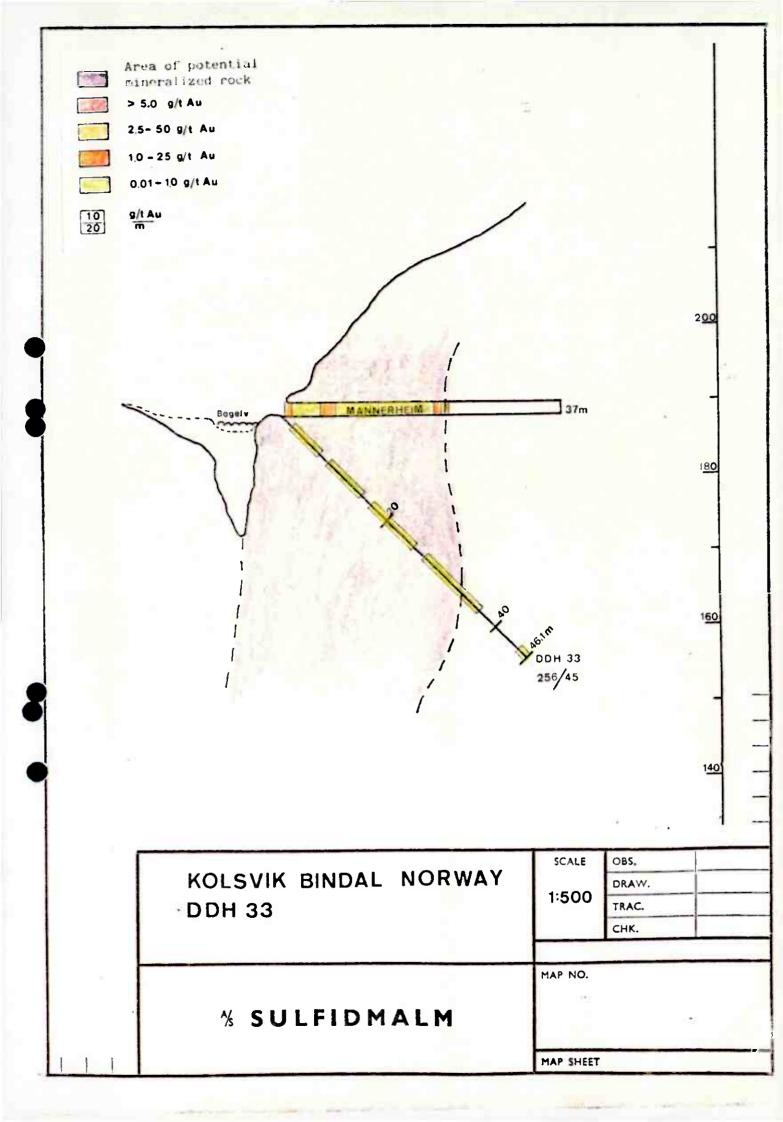


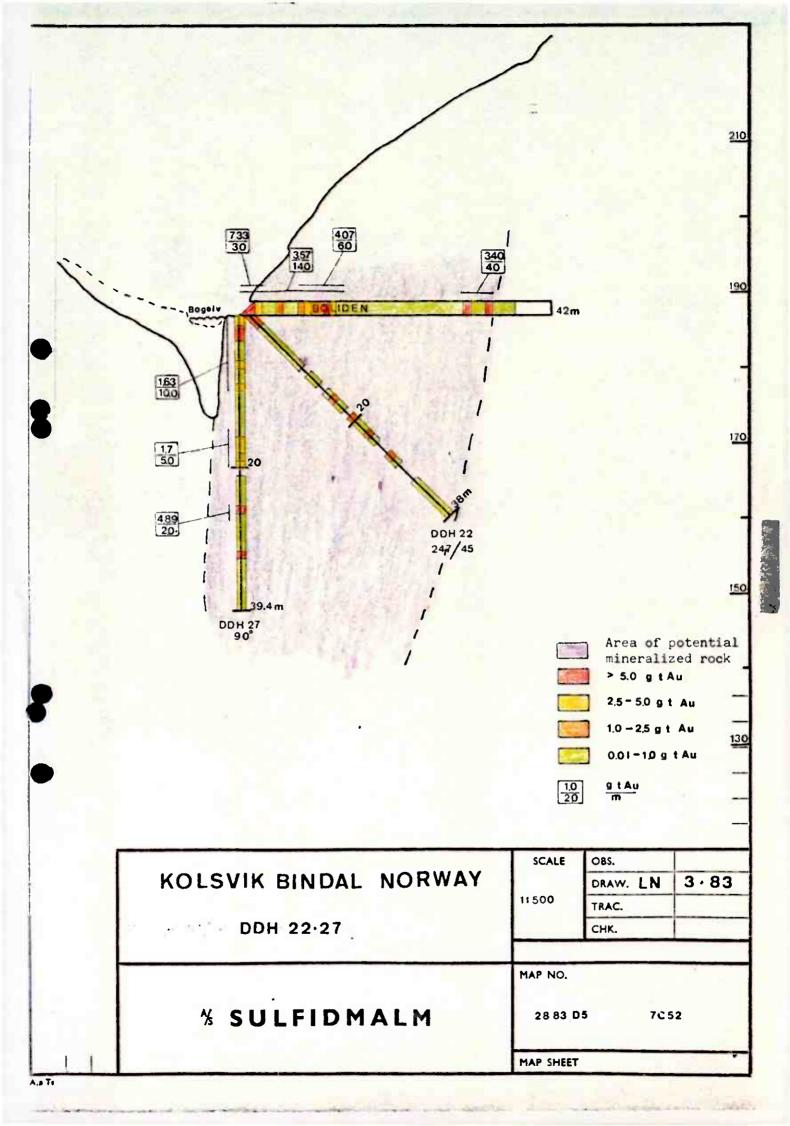


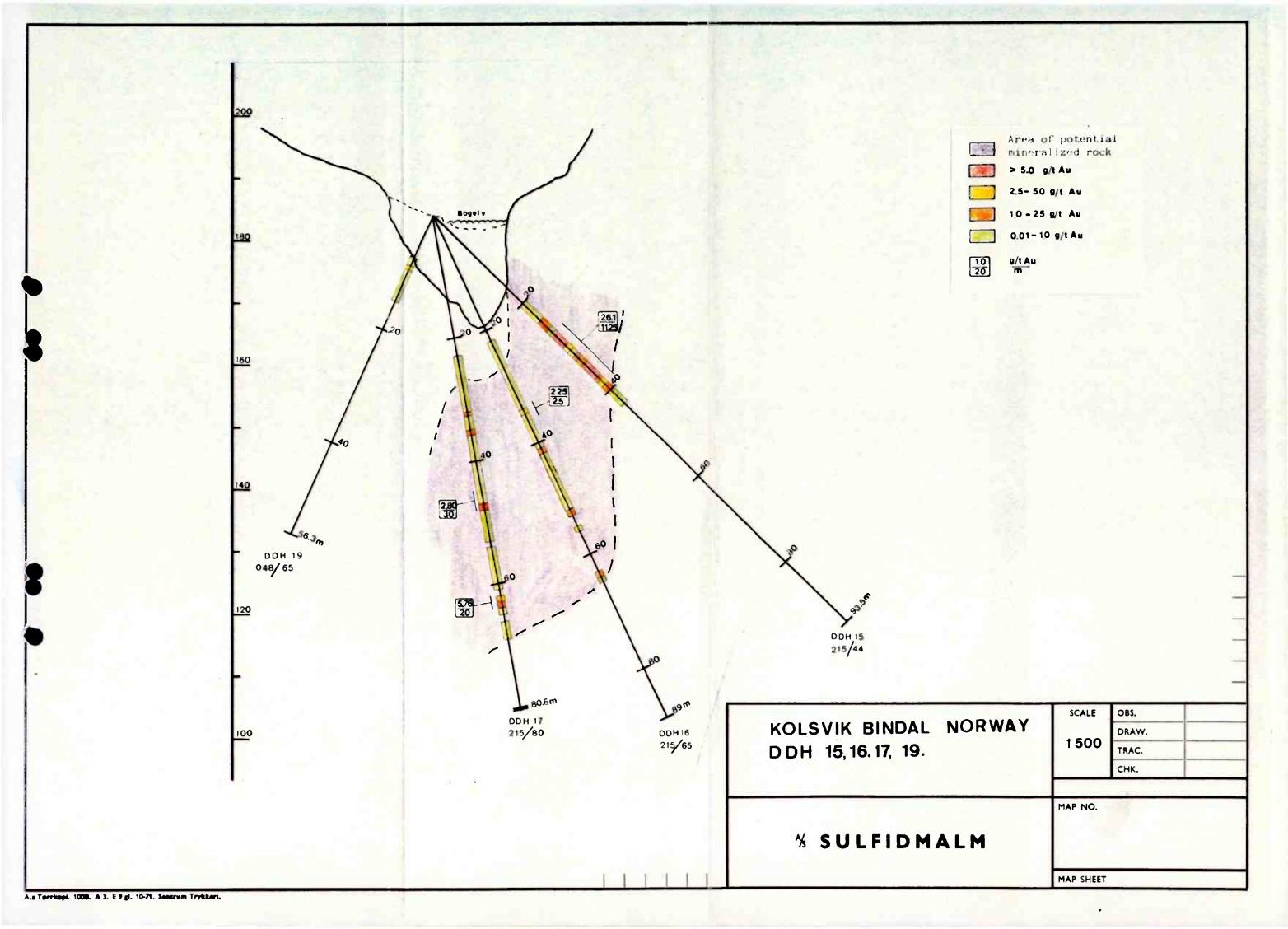


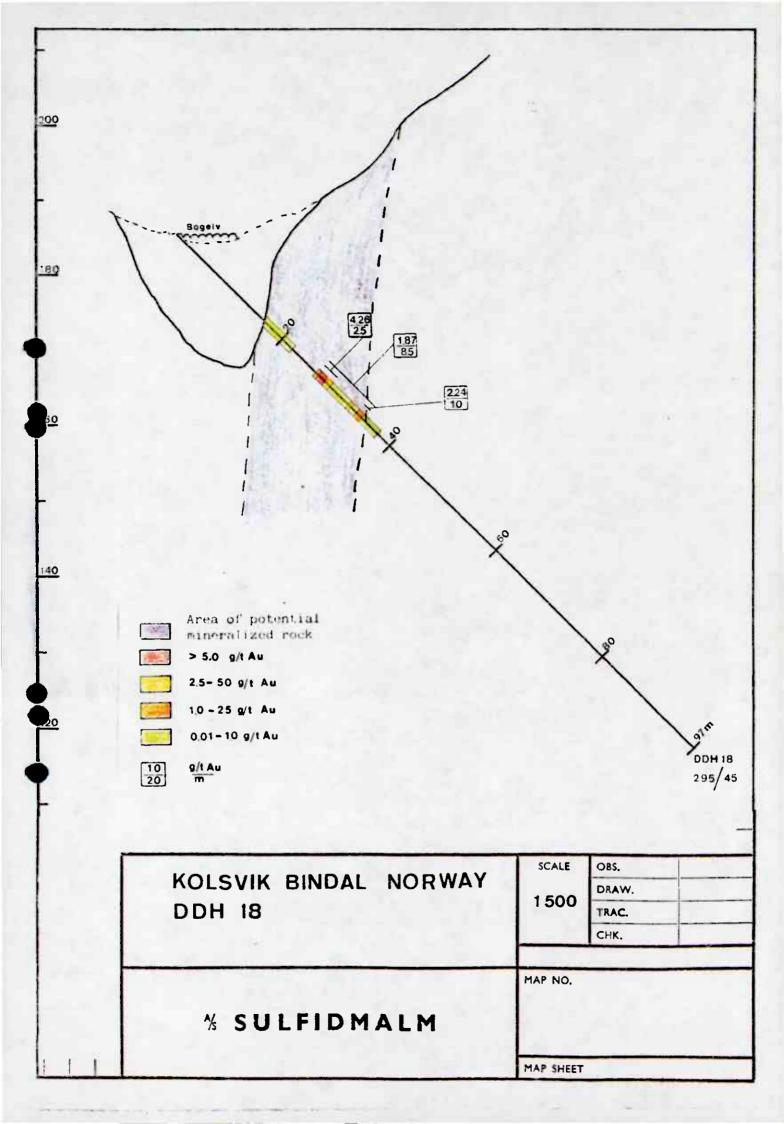


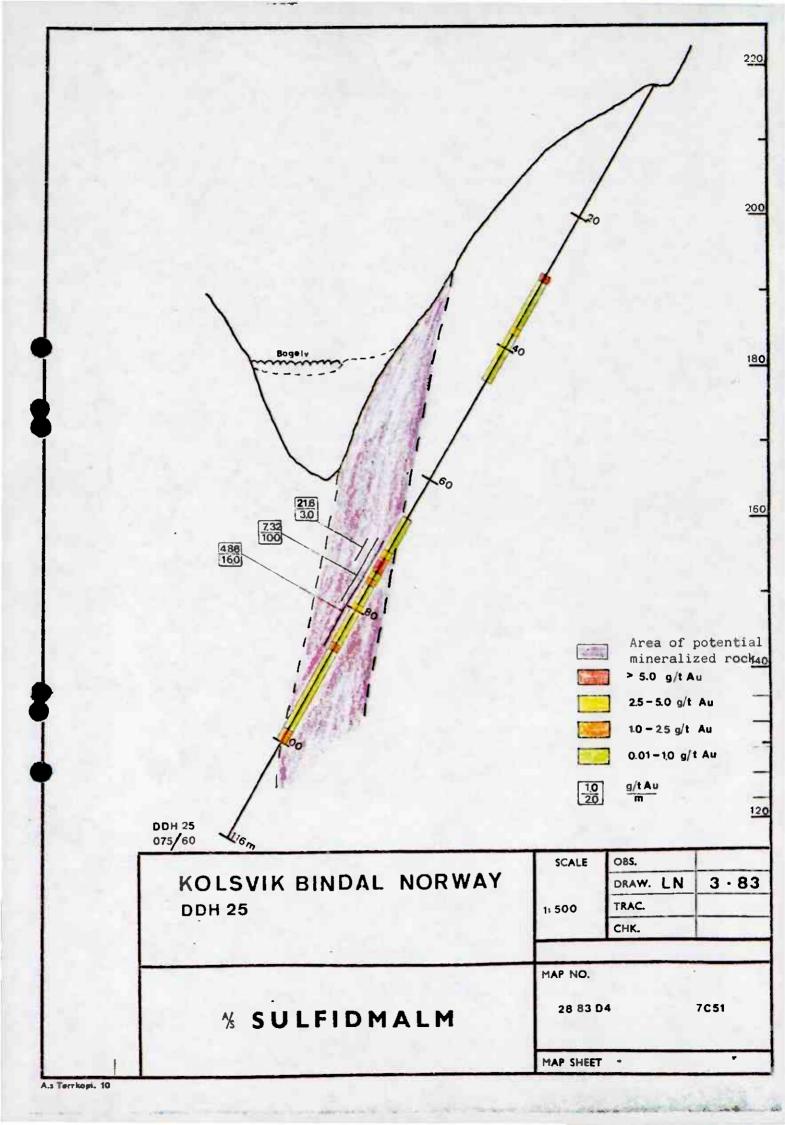


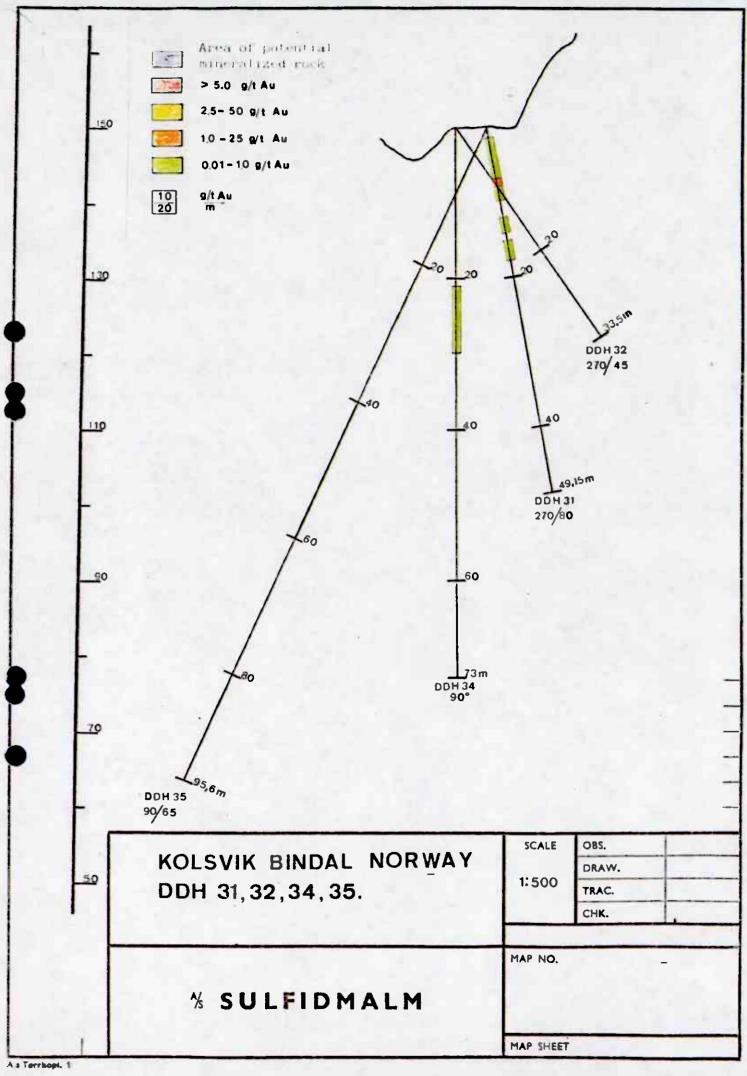












Sample Description

DDH 14 @ 61.95 m

PTS No. 6827

MINERALS	Est. % by Vol.	Grain Size (m.m. Max. Avg.
Feldspar - Oligoclase \pm An ₂₂ Orthoclase	30 - 35 15 - 20	
Quartz	30 - 35	
Biotite	6 - 8	/
Muscovite/Sericite	3 - 4	
Garnet	tr	
Zircon	tr	
Apatite	tr	/
Magnetite, Ilmenite	tr	
Pyrite, Marcasite, Chalcopyrite	tr	
e,		

DESCRIPTION

Augen textures are evident in hand sample but the textures in pol-thin section are granitic. Scattered coarse flakes of biotite and muscovite occur in a coarse mosaic of feldspar, both sodic and potassic, and quartz. The latter shows evidence of deformation by the presence of strain shadows and slight granulation. One grain of garnet was observed in the section.

Sample Description

DDH 14 @ 74.70 m

PTS No. 6828

MINERALS	Est. % by Vol.	Grain Size Max.	m.m.) Avg.
Feldspar - Oligoclase Orthoclase	30 - 35 15 - 20		
Quartz	30 - 35		
Biotite	6 - 8		
Muscovite/Sericite	2 - 3		/
Garnet	∿1		
Chlorite	2 - 3		
Apatite	tr		*1
Pyrrhotite, Marcasite	tr	/	
Magnetite, Ilmenite	tr		
¥			•

DESCRIPTION

Very similar in composition to the previous sample. However, the pol-thin section displays strong orientation of biotite/muscovite/chlorite flakes to produce a gneissic texture.

Kolsvik, Norway

Location

Lab. No. 82-141

Profession of the Company of the Com

Sample Description

DDH 14 @ 97.40 m

PTS No. 6829

MINERALS	Est. % by Vol.	Grain Size (m.m.) Max. Avg.
Feldspar - Oligoclase + An ₂₇ Orthoclase	30 - 35 12 - 15	
Quartz	15 - 20	
Amphibole	15 - 20	
Biotite	10 - 12	
Zircon, Apatite	tr	
Sphene	1 - 2	<i>Y</i>
Carbonate	tr	
Wolframite(?)	tr	
Pycite	tr	
9		

DESCRIPTION

This sample is finer grained and more mafic than the samples at 61.95 m and 74.70 m. It contains about 25% dark minerals but from the total mineral assemblage it is likely a mafic member of the same quartz monzonite unit.

A brown translucent mineral was picked out from the section and subjected to X-ray powder diffraction. Its pattern fits closely that of wolframite but a search of the spectrographic film revealed no lines diagnostic of tungsten.

Location	Kolsvik,	Norway	82-141

Sample Description	DDH 14 @ 100.70 m	PTS No. 6830

MINERALS		Est. % by Vol.	Grain Size (m.m.) Max. Avg.
Feldspar -	Oligoclase + An ₂₅ Orthoclase	40 - 45 8 - 10	
Quartz		6 - 8	
Amphibole		25 - 30	
Biotite		4 - 6	
Epidote		1 - 2	
Sphene		3 - 4	
Carbonate		1 - 2	
Sericite		tr	/-
Pyrite	in the second	tr	
	(4)		

DESCRIPTION

This sample is less siliceous than the previous one and it is classified as a monzonite rather than a quartz monzonite. Dark green hornblende, green biotite and relatively abundant sphene are similar to the assemblage in PTS-6829.

Location	Kolsvik, Norway	Lab. No. 82-141
Sample Description	DDH 14 @ 125.40 m	PTS No. 6831

r og prignelle er broker stor men i 1800g menegren bligt blade brygdrålen, om ellere bligt

MINERALS			Est. % by Vol.	Grain Size Max.	(m.m.) Avg.
Feldspar	Oligoclase Orthoclase		45 - 50 10 - 12		/
Quartz			6 - 8		
Amphibole		3	25 - 30		
Biotite			3 - 5		
Sphene			2 - 3		
Pyrite			tr		
	€<				

DESCRIPTION

Almost identical to the previous sample at 100.70 m.

Location	Kolsvík, Norway	Lab. No. 82-141
Sample Description	DDH 15 @ 30.60 m	PTS No. 6832

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MINERALS	Est. % by Vol.	Grain Size (m.m. Max. Avg.
Quartz	70 - 75	
Feldspar - Orthoclase Oligoclase	6 - 8 1 - 2	
Carbonate	18 - 20	
Biotite	tr	
⊛		

DESCRIPTION

Coarse irregular patches of highly strained quartz and carbonate occur with a heavily granulated, carbonatized, medium grained rock of granitic composition. Some late veins are lined by dog-tooth quartz and show vuggy textures.

Location	Kolsvik, Norway	Lab. No. 82-141
Sample Description	DDH 15 @ 35.30 m	PTS No. 6833

ka military 1989–19, politi ominina jenyo ka njigokalimbiyakana menjalikana.

MINERALS	Est. % by Vol.	Grain Size (m.n Max. Avg
{Andesine Feldspar - {Microcline	20 - 25	
{Orthoclase	15 - 20 50 - 55	
Quartz	4 - 5	
Muscovite	2 - 3	
Garnet	tr	1/
Apatite	tr	
Carbonate	~1	
9		
•		

DESCRIPTION

This sample described as "typical red granite" contains only minor amounts of quartz and must be classified as syenite rather than granite.

Location	Kolsvik, Norway	Lab. No. 82-141
Location		Lab. No.

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Sample Description DDH 15 @ 80.50 m PTS No. 6834

MINERALS	Est. % by Vol.	Grain Size (m.m. Max. Avg.
{Microcline	40 - 45	
Feldspar - {Orthoclase	10 - 15	
{Oligoclase	10 - 15	
Quartz	20 - 25	
Muscovite/Sericite	4 - 5	
Chlorite	tr	
Carbonate	tr	/

DESCRIPTION

A medium- to coarse grained granite shows evidence of strong deformation. Quartz invariably has strain shadows or is partly granulated.

Location	Kolsvik, Norway	Lab. No. 82-141
Sample Description	DDH 18 @ 18.85 m	PTS No. 6835

MINERALS	Est. % by Vol.	Grain Size (m.m. Max. Avg.
Feldspar - Orthoclase Oligoclase	25 - 30 8 - 10	
Quartz	8 - 10	
Chlorite	20 - 25	
Sericite	12 - 15	
Carbonate	10 - 12	
Sphene	1 - 2	
Apatite, Zircon, Pyrite	tr	
Ilmenite	2 - 3	
:	a	

DESCRIPTION

The section is characterized by very high sericitic alteration of feldspar and by abundant flakes of chlorite. Carbonate usually occurs in late veinlets occasionally with quartz. Compared to others, the rock is generally fine grained and shows moderate gneissic textures.

Sample Description

DDH 18 @ 22.65 m

PTS No. 6836

MINERALS	Est. % by Vol.	Grain Size Max.	(m.m.) Avg.
Feldspar - Oligoclase	6 - 8		
Quartz	10 - 12		
Amphibole	2 - 3		
Epidote	25 - 30		/
Biotite	4 - 5		
Chlorite	25 - 30		
Carbonate	<1		
Apatite	∿1		
Garnet	1 - 2		
Sphene	∿1		
Pyrite	8 - 10		
Chalcopyrite	<1		

DESCRIPTION

Peculiar textures in pol-thin section shows coarse grained feldspar completely replaced by chlorite. Interstitial to the altered feldspar are coarse epidote, strained quartz, anhedral pyrite and occasional grains of fresh feldspar, biotite and anhedral orange garnet. Weak chalcopyrite mineralization occurs in gangue rather than in the coarse pyrite.

The intensity of alteration makes it difficult to assess the original rock type. However, from the mineral assemblage it likely represents a highly altered monzonite or diorite.

Sample Description

DDH 18 @ 27.30 m

PTS No. 6837

MINERALS		Est. % by Vol.	Grain Size (m.m.) Max. Avg.
Feldspar -	Orthoclase Albite-oligoclase	20 - 2 5 15 - 1 8	
Quartz		10 - 12	
Biotite		35 - 40	
Rutile		2 - 3	
Carbonate		6 - 8	
Zircon		tr	
	₩.		

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DESCRIPTION

PTS-6837 consists of about 60:40 host rock to vein material. The latter is about 90% coarse grained, highly strained quartz with crosscutting veinlets and patches of carbonate. The texture of the biotite-rich host is almost sedimentary rather than igneous with grains of feldspar and quartz surrounded by biotite. Rutile is prominent in the section as small blocky translucent brown grains. Carbonate occurs as late shear infillings.

The rock is classified as a biotite schist of uncertain origin which is heavily penetrated by quartz/carbonate veinlets.

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Sample Description DDH 18 @ 31.95 m

PTS No. 6838

20 - 25 20 - 25 15 - 20 25 - 30	
15 - 20 25 - 30	
25 - 30	
∿1	
1	100
∿1	1/
4 – 5	X
tr	
2 - 3	
∿1	
ì	
	tr 2 - 3

DESCRIPTION

Euhedral arsenopyrite grains in this granite are adjacent to or within shears. Patches of sphalerite are also invariably accompanied by shear infillings of carbonate.

Location	Kolsvík, Norway	Lab. No. 82-141
Sample Description	DDH 18 @ 39.95 m	PTS No. 6839

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MINERALS	Est. % by Vol.	Grain Size (m.m.) Max. Avg.
Feldspar - Orthoclase Oligoclase	30 - 35 10 - 12	
Quartz	12 - 15	
Hornblende	20 - 25	
Biotite	8 - 10	
Epidote	1 - 2	
Carbonate	2 - 3	1
Sphene	3 - 4	
Chlorite	<1	
Apatite, Pyrrhotite, Chalcopyrite	tr	
Pyrite	∿1	

DESCRIPTION

This is a good example of a medium - to fine grained quartz monzonite which is closely approaching monzonite (<10% quartz) in composition. Sphene is very prominent throughout PTS-6839 in small subhedral to euhedral grains.

Sample Description

DDH 18 @ 82.95 m

PTS No. 6840

MINERALS	Est. % by Vol.	Grain Size (m.m., Max. Avg.
{Orthoclase	30 - 35	
Feldspar - {Microcline	15 - 20	
{Oligoclase	15 - 20	
Quartz	25 - 30	
Muscovite/Sericite	4 - 5	
Chlorite	1 - 2	
Biotite	∿1	
Magnetite, Pyrrhotite	tr	
•		

DESCRIPTION

Good example of a leucocratic granite.

DISTRIBUTION:			REPORT No. Q-1281
ANALYTICAL METH	IOD		
REQUESTED BY:	·····		DATE: May 12, 1982
RECEIVED FROM:			CHARGE:
SAMPLE No.:	L#82-14		No. of SAMPLES: 15
SAMPLE DESCRIPTION	ON: Miscellaneous Ro	cks	
	Kolsvik	, Norway	
-	DDU 1/ 0 (1 05 -		
	DDH 14 @ 61.95 m	DDH 14 @ 74.70 m	DDH 14 @ 97.40 m
10 - 100%	Si	Si	Si
3 - 30%	Fe, A1	Fe,Al	Fe, Al
1 10%	K, Ca	K, Ca	Mg, K, Ca
0,3 - 3%	Na, Ti	Na, Ti	Ti
0.1 - 1%	Mg	Mg	
0.03 - 0.3%			Cr
0.01 - 0.1%	Mn, Cr	Mn, Cr	Mn
0.003 - 0.03%	As, V, Zr, Ni	As, V, Zr, Ni	V, Zr, Ni
0.001 - 0.01%	Cu	Cu	Co
0.0003 - 0.003%	Co, Ba	Ва	Cu, Ba
0.0001 - 0.001%		Co	_
< 0.0003%			
I	Sr	Sr	Sr
S			Na>1%
I = Interference pre	vents positive identification.		

Unless specified above, the following were not detected at the approx. ppm lower limits of 0.5 Cu.Ag; 1 Mn; 5 Mg, Cr; 10 Ba, Be, Bi, Ca, Co, Ni, V; 25 Ge, Fe, Pb, Mo, Si, Sr, Sn, Ti, Zr, Ti, Pd; 50 Ai, Sb, B, Cd, Ga, In, Li, Zn; 100 As, Au, Na; 200 Rh, Re, Ir, Pt, Ru, Sc; 300 Te, Os; 1000 K, U, Th; 2000 P.

FML-1017

Strong spectral lines, unable to estimate amount.

DISTRI	BUTION:	· · · · · · · · · · · · · · · · · · ·		REPORT NoQ-1281
REQUE	STED BY:			DATE: May 12, 1982
SAMPL	E No.:	L#82-141		No. of SAMPLES: 15
	E DESCRIPTION	W - 11		=-
		Kolsvik, 1	Norway	
		DDH 14 @ 100.70 m	DDH 14 @ 125.40 m	DDH 15 @ 30.60 m
10	- 100%	Si	Si	Si
3	- 30%	Fe, Al	Fe, Al	A1
1	- 10%	Mg, K, Ca	Mg, K, Ca	K, Ca
0.3	- 3%	Ti	Ti	Fe, Na, Ti
0,1	- 1%		=	As, Mg
0.03	- 0.3%	Cr	Cr	Cr
0.01	- 0.1%	Mn	Mn	
0.003	- 0.03%	V, Zr, Ni	V, Zr, Ni	Mn
0.001	- 0.01%	Co	Co	
0.0003	- 0.003%	Cu, Ba	Cu, Ba	Pb, Cu, Zr, Ni
0.0001	- 0.001%			V, Ba
< 0	.0003%			Ag
	I	Sr	Sr	Sr
	S	Na>1%	Na>1%	

Unless specified above, the following were not detected at the approx. ppm lower limits of 0.5 Cu,Ag; 1 Mn; 5 Mg, Cr; 10 Ba, Be, Bi, Ca, Co, Ni, V; 25 Ge, Fe, Pb, Mo, Si, Sr, Sn, Ti, Zr, Tl, Pd; 50 Al, Sb, B, Cd, Ga, In, Li, Zn; 100 As, Au, Na; 200 Rh, Re, Ir, Pt, Ru, Sc; 300 Te, Os; 1000 K, U, Th; 2000 P.

FML-1017

Analyst _____

I = Interference prevents positive identification.

S = Strong spectral lines, unable to estimate amount.

DISTRI	BUT	ION:	REPORT No. Q-1281				
ANALY	TIC	AL METHO	DD:				
REQUE	STE	D BY:	DATE: May 12, 1982				
RECEIN	/ED	FROM:	CHARGE: J0#3064				
SAMPL	E No	o.:			L#82-141		No. of SAMPLES: 15
SAMPL	E DI	ESCRIPTIC	N:	lisce	llaneous Ro		
			·		Kolsvik,		
			DDH	15 @	3 5,30 m	DDH 15 @ 80.50 m	DDH 18 @ 18.85 m
10	-	100%	Si			Si	Si
3	72	30%				Al	Fe,Al
1	(m)	10%	K	_		K	Mg, Ca
0.3	Ī.	3%	Fe			Fe	Ti, K
0.1	-	1%	Ca			Mg, Ca	
0.03	-	0.3%				Ti	Cr
0.01	-	0.1%	Mg,	A1,	Cr	Cr	Mn, Ni
0.003	<u>.</u>	0.03%	As,	Pb		As	As, V, Zr
0.001	-	0.01%	Mn,	Ni		Mn	Cu, Co
0.0003	_	0.003%	Cu,	Ti		Pb, Cu, Zr, Ni	
0.0001	-	0.001%				Ва	Ва
< 0	.000)3%	Ag				Ag
		1 .	Sr			Sr	Sr
		S	Nas	1%		No. 19	No.1%

Unless specified above, the following were not detected at the approx. ppm lower limits of 0.5 Cu,Ag, 1 Mn; 5 Mg, Cr; 10 Ba, Be, Bi, Ca, Co, Ni, V; 25 Ge, Fe, Pb, Mo, Si, Sr, Sn, Ti, Zr, Tl, Pd; 50 Al, Sb, B, Cd, Ga, In, Li, Zn; 100 As, Au, Na; 200 Rh, Re, Ir, Pt, Ru, Sc; 300 Te, Os; 1000 K, U, Th; 2000 P.

FML-1017

Analyst _____

I = Interference prevents positive identification.

S = Strong spectral lines, unable to estimate amount.

DISTR	BUTION	-		· · · · · · · · · · · · · · · · · · ·	REPORT No. Q-1281
ANALY	TICAL N	METHOD:			
REQUE	STED B	Y (DATE: May 12, 1982
RECEI	VED FRO	OM;			CHARGE: J0#3064
SAMPL	E No :		L#82-141		No. of SAMPLES: 15
SAMPL	E DESCR	RIPTION:_	Miscellaneous R		
			Kolsvik,		
		D D H	18 @ 2 2.65 m	DDH 18 @ 27.30 m	DDH 18 @ 31.95 m
10	- 100%	si,	Fe	Si	Si
3	- 309	A1,	K	Fe, Ål	A1, K
1	- 109	Mg,	Са	Mg, K, Ca	
0.3	- 39	5 Ti		Ti	Fe, Ti, Ca
0.1	- 19	Na			As, Mg
0.03	- 0.3%			As	
0.01	- 0.1%	Mn,	Cr	Pb, Cr	Pb, Cr
0.003	- 0.03	As,	V,Cd,Zn,Zr,Ni	Mn, V, Zr	Zn
0.001	- 0.01	% <u>C</u> u,	Co		Mn, Zr
0.0003	- 0.00	3% Sn		Cu, Ni, Ba	Cu, Ni
0.0001	- 0.00	1% Mo		Со	V, Ba
< 0	.0003%	Ag		Ag	Àg
	I	Sr		Sr	Sr
	s			Na>1%	Na>1%

Unless specified above, the following were not detected at the approx. ppm lower limits of 0.5 Cu,Ag, 1 Mn; 5 Mg, Cr; 10 Ba, Be, Bi, Ca, Co, Ni, V; 25 Ge, Fe, Pb, Mo, Si, Sr, Sn, Ti, Zr, Tl, Pd; 50 Ai, Sb, B, Cd, Ga, In, Li, Zn; 100 As, Au, Na; 200 Rh, Re, Ir, Pt, Ru, Sc; 300 Te, Os; 1000 K, U, Th; 2000 P.

FML-1017

Interference prevents positive identification.

S = Strong spectral lines, unable to estimate amount.

DISTRI	BUTION:		
ANALY	TICAL METHOD:_		
REQUE	STED BY:		DATE: May 12, 1982
RECEIV	/ED FROM:		CHARGE: J0#3064
			No. of SAMPLES: 15
		Miscellaneous Rocks	
		Kolsvik, Norway	
	71.	W 5- 2- 2- 2-	
		DDH 18 @ 39.95 m	DDH 18 @ 82.95 m
10	- 100%	Si	Si
3	- 30%	Fe, Al, Ca	Al
1	- 10%	Mg, K	К
0.3	- 3%	Ti	Fe, Ca
0.1	- 1%		Mg
0.03	- 0.3%	=	Ti
0.01	- 0.1%	Mn	Cr
0.003	- 0.03%	As, V, Zr, Ni	As:
0.001	- 0.01%	Cu, Cr	Mn
0.0003	- 0.003%	Co, Ba	Pb, Cu, Zr, Ni
0.0001	- 0.001%		Ва
< 0.	0003%	Ag	•
	Ĭ	Sr	Sr
	S	Na>1%	Na>1%

FML-1017

LOCATION	C-zone	BEARING 274" DIP: 80 HOLE NO. 1.80. SHIET NO. 1
LOGGED BY:	RS FN	STARTED 3.6.80 PROPERTY KOLSVIK C-zung
CASING	3.50	FINISHED 12.6.80 Bindal
CORE SIZE:		TESTS (CORRECTED): IRC

From	То	Description
	-a- Important	
0	3.0	Overburden i n
3.0	8.30	Sequence of dominantly mica schist with calc-silicat
		bands. A zone of marble between 6.40-7.00.
		The sequence is broken and fractured with quartz
	(-0.00)	and carbonate veins and veinlets running in all
		directions
		7.00 - 7.10 Granitic vein with some Asp
		on thin fractures.
		7.45 - 7:70 Coarse gr. diorite
		8.20 - 8.30 Skarn developed against under-
		lying marble. Carnets diopside
		and a few specks of pyrite.
8.30	11.45	Dominantly banded marble - well foliated. No dominant
		fractures or vein fillings. Over last 20 cms some inter-
		mixing of other sediments.
	Б	
	1 7	
	-	
1145	26.60	Granite Altered with both greenish colouring
		(sericite) and a pink alteration associated with
		thin carbonate lined joints.
down.	11-1-11-11-11-11-11-11-11-11-11-11-11-1	20.50 1 cm_qtz_vein with py specks. 25.10 - 26.30 Fault zone - granite broken
		breceiated and riddled with
		carbonate veins. 30 cms
		clay faults gouge zone.
190 1986	::c)+:0(o-(v)	Some Asp seen on joint surfaces.
		Fragments of mica schist/amphibolite form 12.0 - 13.5.
	I ii	E_H_A : 5000

LOCATION	CZone	BEARING: 274 DIP: 80	HOLE	NO: 1 80	SHIET NO	10
LOGGED BY:	RS FN	STARTED 2.6.80				
CASING:		FINISHED:		Bindal		
CORE SIZE	42 cms	TESTS (CORRECTED)				

From	То	Description
26.60	28.90	Highly contorted gneiss with carbonate
		veining.
-0.0		28.0 - 28.90 Qtz and granitic veining with pyrite
	* =	in the gneiss as isolated specks and
	- = =	also as fracture fillings. Only 1-2%.
8.90	29.30	Reddish altered granite with carbonate and xeelite
-		lined fractures.
29.30	30.75	Mica schist with an even foliation cut by thin car-
		bonate filled joints.
0.75	31.25	Brecciated and altered granite cut by small shear zones that
		postdate breccia.
4.44		
1.25	32.0	Schist highly altered and brecciated. X cut by carbonate veins
		Graphite noted on joint (foliation) planes at 31.80.
12.45	33.25	Fractured and altered granite.
4		
13.25	34.35	Mica schist cut by granite and carbonate veins.
		34.00 - 34.35 Marble.
14.35	35.50	Granite. Still cut by carbonate veining but not as
		prominant as previous section. Granite is dominantly
	interment with-	grey white in colour with no obvious alteration colours.
		corours.
15.50	40.00	Marble. Somewhat fractured in places.
10.00	41.90	Mica schist cut by several granitic veins. Some
1		py on fractures especially around 41 m.
w ==	HEARITETING	promounicos de la company de l

LOCATION	C-zone	BEARING 274" DIP: 80 HOLE NO: 1.80 SHEET NO 3
LOGGED BY:	KS FN	STAHTED 2.6.80 PROPERTY KOLSVÍK C-ZONE
CASING:	3.50	FINISHED Bindal
CORE SIZE:	42 mm	TESTS (CONNECTED):

From	То	Description				
		40.10 Graphite on joint planes				
_		41.30 - 41.50 Altered sericite rich granite sheared				
= 1		from 41.00 - 41.50				
.90	48.85	Granite. Dominantly med. grained white in colour.				
		Sericite development in places. Cut by several vein				
İ		types. Quartz veins - whitish blue 0.5 - 2 cm.				
	11110-3	The state of the s				
	in think	These are cut by thin carbonate and chlorite lined				
	ZZULCZĄ WIEMU	joints which run in a x cross pattern.				
1	(* · · · · · · · · · · · · · · · · · · ·	Most quartz veining between 44 and 47 m				
		43 60 44 00 Mica schist 45 50 - 46 00 Spread grains of Asp				
1		Quartz veining has a fairly constant angle to drill				
1	H	core - whereas the carbonate and chlorite lined				
		joints give the rock a somewhat brecciated appear				
		ance, especially over the last 2 m				
. 85	55.80	Extremely sheared and broken mica schist/amphibolite				
1		and marble (dominant)				
	10-11	50.00 51.00 5% pyrite				
901	09.30	Granite. Dominantly white in colour as above has				
		some pink alteration associated to joints. Some seri				
		alteration also noted.				
		Cut by several small qtz veins and segregations				
		especially over first 10 m.				
		57.55 Thin fracture zone lined with Asp.				
		60.10 - 60.25 Asp as thin vein and 1-2 m aggregates				
		ussociated with qtz veining.				
		60.35 - 61.00 Amphibolite				
		61.25 Thin 1 cm Asp Vein.				
	Marine ye	or.co min rem Asp Vein.				

LOGGED I	3.50 FN	STARTED 2.6.80. PROPERTY Kolsvik C-zone
CORE SIZ	E 42 nun	
From	To	Description
69.30	72.15	Mica schist - sheared contact with granite. Contains
	ES 31	some calc-silicate bands. Some quartz veining parallel
		to shearing in upper contact over 1-2 cm.
	v = = ====	Otherwise fairly uniform - cut by small carbonate veins
72.15	76.80	White even med.gr. granite. Fairly unaltered. Upper
		contact slightly sheared with 2 cm quartz vein.
76.80	80.90	Mica schist with some limited quartz veining.
но.90	82.90	Granite, dominantly light coloured with inclusions
		of a darker more granodiorite rock. Some slight alte-
		ration noted but granite is generally massive not
12 L	41.45	showing many fractures.
62.90	86.60	Dominantly mica schist/amphibolitic rocks cut irre-
		gularly by even gr. diorite. Also cut by a 15 cm
		vein of granite which contains assimilated fragments
	***************************************	of diorite.
46.80	103.60	Granite. Dominantly massive with no major shear or
,		Granite. Dominantly massive with no major shear or fracture zones. Some thin carbonate lined fractures.
		assimilated diorite.
		91.00 - 91.50 Mica schist
		92.40 - 92.85 Carbonate breccia
	**************************************	Company of the compan
	9919199 (1991) - \$1000 (1890) p	97.50 - 99.00 Med. gr. diorite gneiss.
03.60	104.00	Amphibolite
(1)		
i siii e		

50			DIAMOND DRILL RECORD						
LOCATION LOGGED BY	C-zone Rs FN 3.50		Personal Property and Property						
			FINISHED: Bindal TESTS (CORRECTED):						
From	To		Description						
104.00	104.	40	Granite med. gr. veined with a green xeolite mineral?						
104.40	104.	80	Sheared amphibolite with carbonate veins.						
104.80	110.	50	Granite.						
T-11-1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	104.80 -105.10 Med. gr. unaltered.						
	-		105.10 - 106.90 Quartz segregations and veins, no Asp.						
			Granite also contains qtz segregations between 108.20						
	*********		and 110.50.						
110. 5 ¢	111								
110.50	111.		Mica schist, quite fractured especially near contacts						
			where it contains granite inclusions.						
111.85	112.	50	Qtz rich granite						
112.50	113.	00	Carbonate breccia and consolidated fault gauge and						
			thin mylonitic quartz veins.						
113.00	115.	50	Granite. Down to 114.20 extremely qtz rich - mylo-						
			nitic and recrystallized from 113.00 - 113.40.						
11 14	115.	ō0	End of hole.						
	•••••								
= -	outroite.	- TOTAL MINE	The state of the s						
3534									
THE RESERVE OF	***								
		The distance							
- = 2									
	***********	***********							
	******	- hin-							
= 100000									

DIAMOND DRILL RECORD

 LOCATION:
 C-zone
 BEARING:
 274° DIP:
 80. HOLE NO:
 1.80_ SHEET NO:
 6

 LOGGED BY:
 RS FN
 STARTED:
 2.6.80
 PROPERTY
 Kolsvík C-zone

 CASING:
 FINISHED.
 Bindal

 CORE SIZE:
 42 INITI
 TESTS (CORRECTED):

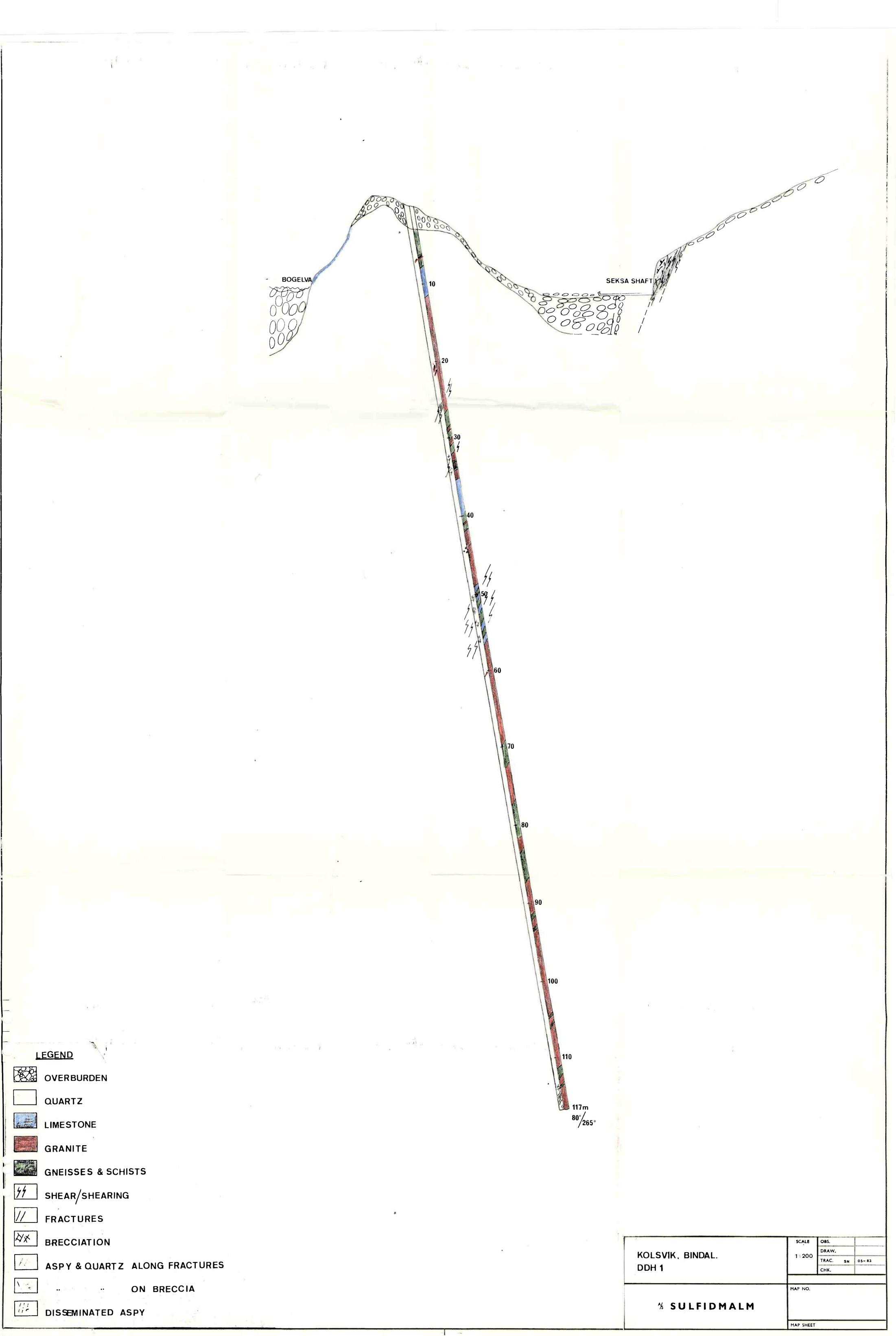
From	To	Description				
100	— n zanana	Core	angles *NB	O=parallel core		
			ung100	o-paratiet core		
		meterage	Angle*	Type		
		6.60	55	foliation		
		7.25	7 0			
		9.40	55	II S S S S S S S S S S S S S S S S S S		
		13.40	50	shear		
.,,		20.0	; 15	joint		
		26.60	60	contact		
		30 .0	55	foliation		
-		29.50	15	joint		
		31.0	55	fracture		
		33.50	20	fracture		
<u> </u>		41.60	45	shear		
	***********************	41.90	0	eontact		
h		48.70	35	shear		
		48.85	55	<u>contact</u> .		
		52.25	50	shearing		
1000000		49.80	20			
		56.40	45	Qtz vein		
100000	With the state of the state of	60.10 57.55	10 20	Asp lined joint		
		69.30	45	Sheared contact		
F - 15 51	***************************************	72.15	50	_ " " _		
		82.90	45	contact		
		98.50	35	shear		
=====	AND MAINTENANCE OF THE PROPERTY OF THE PROPERT	104.50	30	shear		
		109.00	50	fracture		
		110.50	25	fractured contact		
35		111.60	60	shearing		
		Hole was d	rilled to inter	sect gold bearing C-zone struc		
		at depth.		s zone consists of gold/Asp		
	(C1114011411) - 10 - 111111	bearing qua		clated with sheared and fractu		
1 -4 4			and granite.	, 7.		

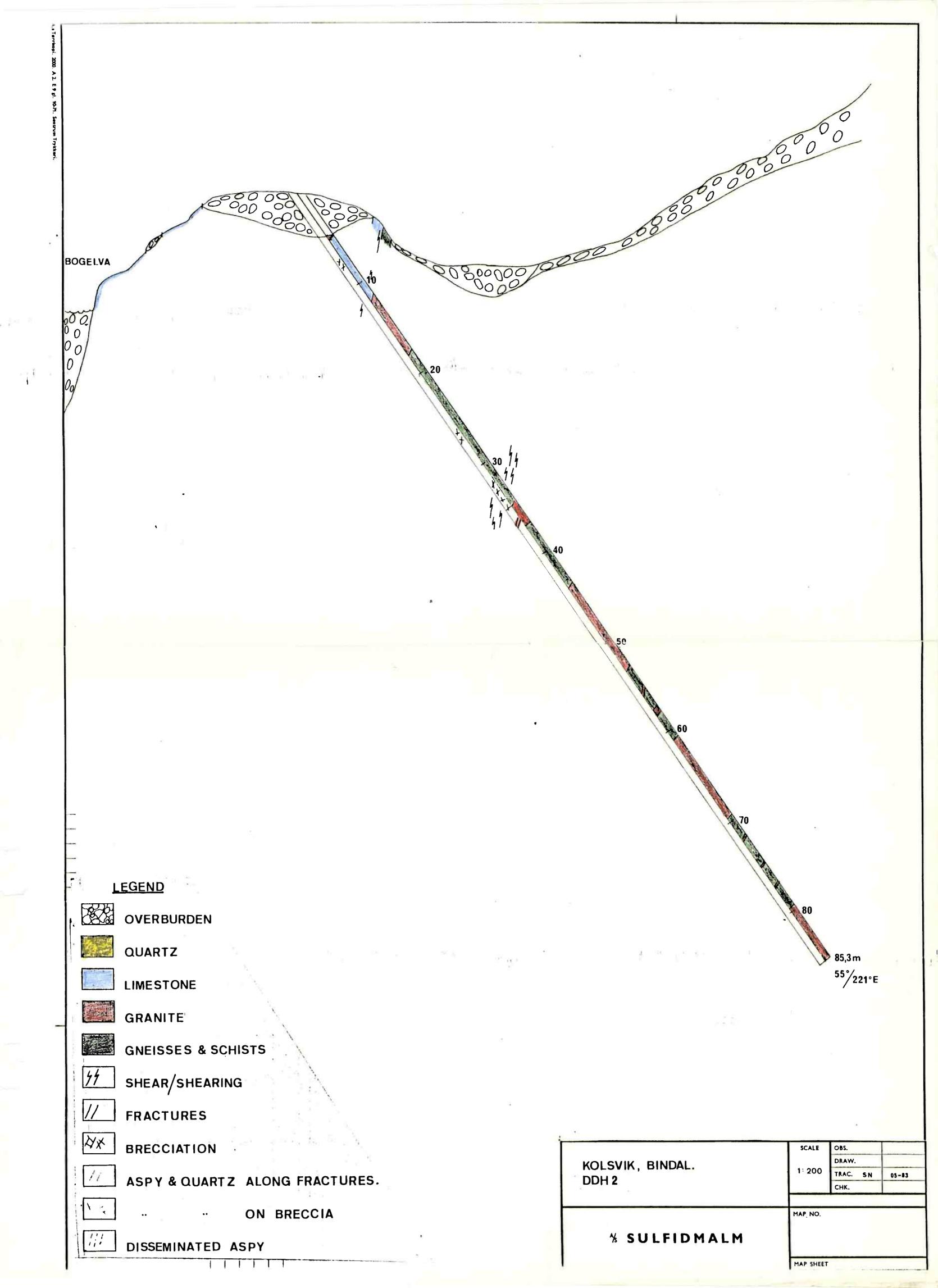
% SULFIDMALM

LOCATION: LOGGED BY: CASING: CORE SIZE:	RS FI 3.50	FINISHED Bindal
From To	0	Description
		Description
	***************************************	The hole is
	U = i	The hole intersected this zone between ca. 46 m - 62 m.
231111 -		at a vertical depth of some 50 m giving a true width
		of some 10 m. Only limited Asp mineralization was noted
	7-7-0-	and only two significant assays were returned from the
1		Zone, these being
271711		45.75 - 46.00 5.7 g/t Au 61.25 - 61.50 18 g/t Au
		61.25 - 61.50 18 g/t Au
=====		· · · · · · · · · · · · · · · · · · ·

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		A Commission of the Commission
i		£. H. A.s \$000 \$ 73





LOCATION C-ZONG	BEARING 227" DIP: 55 HOLE NO. 2. 80 BUILT NO. 1
LOGGED BY: RS FN	STARTED: 13.6.80 PROPERTY Kolsvik C-zone
CASING: 5.50	
CORE SIZE:42mm	TESTS (CORRECTED):

From	To	Description
0	5.25	Overburden .
5.25	5.50	Granite, white in colour, coarse gr. unaltered.
5.50	12.0	Dominantly marble with thin zones of more micalamphibo rich supracrustals. Cut in places by a few thin carbo veins. Near upper contact with granite a few thin 1-2
·		qtz-veins and segregations.
		Marble is banded and well foliated.
		7.60 7.75 Breccia zone with granite
	a	fragments, cut by later thin carbonate ve
12.00	18.00	Granite. Dominantly med. gr. some limited alteration
*;		along joints. Very few qtz veins or segregations. No
		dominant structures.
18.00	33.70	Dominantly mica schist with amphibolitic bands.
		Cut by and contain "fragments" of diorite. Also
		cut by a few granitic veins. 29.15 - 29.35 Brecciated zone.
33.70	35.45	Breccia/Fault gauge zone. Mylonitic in places.
		Several generations of movement.
35.45	3 7.3 0	Qtz rich (veins & segregrations) altered granite.
		Qtz veins in order 0.5 - 2 cm randomly orientated.
		Only a very weak Asp min. found associated with two
		small quartz veins around 37.10 - 15.0
37.30	43.20	Dominantly mica schist.
43.20	53.30	Granite dominantly white in colour and not very altere
×		Contains some small xenoliths of schist and diorite
		especially between 48-49 m. Only a few fractures.
21111		

LOCATION:	C-zone	BEARING: 227° DIP:	55 HOLE NO:	2.80 SHEET NO. 2
LOGGED BY:	BS FN	חווח וווחיום חווחיום	Librata	KOlnylk Carone
1 1000	4,141	11109111		Hinder
ein nate	49 mm	than (conticut)		

From	To	Description
53.30	57.70	Dominantly mica schist/amphibolite.
NATION OF		54.90 - 55.40 Granite white & unaltered
		56.40 - 56.50 Grantle vets with some phonest
	J. Ottoba Minimum	Small 7-5 cm veinlets of grantte especially over
****	= 1 == 1001000 · 10	last 2 m.
57.70	58.50	Granite
25 62		58.00 - 58.50 Reddish alteration along joints.
58. 5 0	60.80	Gneisses with small intrusions of granite.
E) = 0.0	***************************************	60.00 - 60.40 heavily X cross veined with thin
==		veinlets of green xeolite? mineral.
60.80	69.80	Granite. Altered along joints-reddish. Also a
	***************************************	little sericite noted.
	V (1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	Carbonate on some joint planes
		Some thin chlorite veining from 69.50 - 69.70
5,41.5	Tare Minimum	Lower contact is somewhat. Fractured.
69.80	79.60	Dom. mica schist with granite veins up to 50 cm
	*.	
79.60	85.30	Granite. Dom. med. even grained. Some alteratio
		along joints. Very little quartz.

LOCATION C-zone	BEARING: 227° DIP: 55 HOLE NO:	2.80 SHEET NO 3
LOGGED BY: RS FN	STARTED: 13.6.80 PROPERTY	Kolsvik C-zone
CASING:5.50	FINISHED: 17.8.80	BIndal
CORE SIZE: 42 mm	TESTS (CORRECTED):	WANTED STATE OF THE STATE OF TH

From	То		Description				
		· Core	angles	0=parallel core			
0		Meterage	Angle	Type			
		10.50	75	foliation			
	***************************************	6.20	60	foliation .			
		11.15	40	shear			
	- Head water	18.50	55	foliation			
		24.10	55	foliation			
- =-		27.40	60	foliation			
		3510	50	breccia band			
	11223141291111	35.30	45	shear plane			
(37.50	90	foliation-shearing			
(ii ii		39.7 0	75	foliation			
		40.80	80	foliation			
1100		53,30	75	contact			
E = 4		5.6 . 4.0	25	sheared qtz vein			
- i		58.10	20(1	Joint			
		65.00	30	joint			
ļ.		7 3.50 ······		foliation			
		80.00	20	joint			
	***************************************	Hole was dril	led to interse	ct gold bearing C-zone			
H 1944 W		structure at	depth. On sur	face this zone consists			
		of gold / Asp	bearing quartz	veins associated with sh			
				granite. The hole			
- 1:-				en ca. 32 - 40 m giving			
				at a vertical depth of so			
				p_mineralization was note			
_				5 cms from the zone retu			
-1-							
173.25							
				The state of the s			

ASING.	ay: JH FN	I KK STARTED 22.8. PROPERTY Kolsvik 3.50 FINISHED 7.9 Bindal
From	То	Description
0	3,20	Overburden
3.20	20.0	Dioritic gneiss, even grained, dominantly coarse grained.
		Cut by a number of small 2-3 cm qtz veins and granite veins.
		Foliation is noticable and can be seen to be folded
		Dominant jointing is vertical-subvertical and sever joints are seen to be lined by Asp and pyrite.
		4.45 - 4.60 Granite vein-subvertical joints lined with muscovite & carbonate.
		5.00 - 5.50 Otz rich granite with subvertical fra
- 1 1 1 1 min	****	9.00 - 10.00 Weak pyrite impregnation.
		9.95 -0.5 cm Asp veinlet.
	***************************************	10.60 - 11.15 Asp on subvertical veinlets and joint fillings. Also some secondary quartz introduced:
-		18.80 - 19.20 Asp lined joints.
0.00	23.10	Pegmatite extremely quartz rich granite-sericite bearing (on joints). Some little Asp noted on joints.
3.10	23.70	Dioritic gneiss, extremely shattered and sneared, breaking down along numerous joints. A little py and Asp
7.70	2850	Quartz vein, cut by chlorite lined joints that x ero and start brecciating the rock - extremely thin join however, some py noted.
28.50	38.10	Dioritic gneiss/biotite schist still tectonized and frac-
		tured down to 30.20. From 30 m get a development of feldspar augens and ro becomes a biotite augen gneiss. The augens are irreg lar and no foliation can be measured. Small Asp diss minations and grains often lie around the augens. Asp is also present as thin stringers.

SCARTED PROPERTY Kolsvik ASING: 3.50 FINSHED Bindal. TESTS (CORRECTED): TO Description 33.60 - 33.80 Granitic vein 38.10 40.15 Quartz vein with coarse granular aggregates of to 3 cm across, especially well developed between 39.50. A few thin joints are lined with chlority vein is creamy white in colour and does not app have undergone much deformation 40.15 45.25 Dioritic gneiss - extremely muscovite rich (with seriotic) Cut in part by pure cream white quant that have no sulphides and few fractures. 41.65 - 42.50 Qtz vein 43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich White gnaritic ine-medium gr. biotite gneiss. Cut through by a network avequartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 34.45 - 57.40 Coarser grained granite with Asp matrix size stringers. Granite is alter ation increases with depth.	DIP: 90° HOLE NO: 3.80 SHEET				-zone			
TESTS (CORRECTED): Tests (CORRECTE): Tests (CORRECTED): Tests (Corrected predicted product with Asp matrix Size stringers. Cranite is alter	PROPERTY Kolsvik			STARTED:	\$ <u></u>	KNK	۲: <u>اللل</u>	DOGED B
From To Description 33.60 - 33.80 Granitic vein 38.10 40.15 Quartz vein with coarse granular aggregates of to 3 cm across, especially well developed between 39.50. A few thin joints are lined with chloric vein is creamy white in colour and does not appear have undergone much deformation 40.15 45.25 Dioritic gneiss - extremely muscovite rich (with sericite). Cut in part by pure cream white quarted that have no sulphides and few fractures. 41.65 - 42.50 Qtz vein 43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich White granitic vein extremely quartz rich white granitic vein extremely quartz rich pominantly fine-medium gr. biotite gneiss. Cut through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	Bindal			_ FINISHED:		3.5		ASING: _
33.60 - 33.80 Granitic vein 38.10 40.15 Quartz vein with coarse granular aggregates of to 3 cm across, especially well developed betwe 39.50. A few thin joints are lined with chlori vein is creamy white in colour and does not app have undergone much deformation 40.15 45.25 Dioritic gneiss - extremely muscovite rich (wit sericite). Cut in part by pure cream white qua that have no sulphides and few fractures. 41.65 - 42.50 Qtz vein 43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich White granitic vein extremely quartz rich Dominantly fine-medium gr. biotite gneiss. Cut through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	FED);		RECTED):	TESTS (COF				DRE SIZE
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Quartz vein with coarse granular aggregates of to 3 cm across, especially well developed betwee 39.50. A few thin joints are lined with chlori vein is creamy white in colour and does not app have undergone much deformation 40.15 45.25 Dioritic gneiss - extremely muscovite rich (wit sericite). Cut in part by pure cream white qua that have no sulphides and few fractures. 41.65 - 42.50 Qtz vein 43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich White granitic vein extremely quartz rich 55.50 54.30 Dominantly fine-medium gr. biotite gneiss. Cut through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 34.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	Description	Desc			į.		10	110
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have undergone much deformation 40.15 45.25 Dioritic gneiss - extremely muscovite rich (wit sericite). Cut in part by pure cream white qua that have no sulphides and few fractures. 41.65 - 42.50 Qtz vein 43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich 5.25 45.50 White granitic vein extremely quartz rich Dominantly fine-medium gr. biotite gneiss. Cut through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter								
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43.50 - 43.90 Qtz veining 45.00 - 45.45 Qtz rich White granitic vein extremely quartz rich Dominantly fine-medium gr. biotite gneiss. Cut through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	Cut in part by pure cream white quartz	part b	. Cut i	sericite)				
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through by a network av quartz veins between 45 Xenolith relationships are complex. 49.40-49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25-53.70 White quartz rich granite 54.45-57.40 Coarser grained granite with many fractures containing Asp. 57.40-61.45 Brecciated granite with Asp matrix size stringers. Granite is alter							45.50	5.25
Xenolith relationships are complex. 49.40 - 49.90 Sheared zone. Extremely sheared and fractured, riddled with q from 53.25 - 53.70 White quartz rich granite 34.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter					04 12			5.50
from 53.25 - 53.70 White quartz rich granite 54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	ationships are complex. Sheared zone.	ips ar	relation 90 She	Xenolith: 49.40 - 49		74	F. 100	
54.45 - 57.40 Coarser grained granite with many fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter	53.70	u Ira	5 - 53.7 0	from 53.2				
fractures containing Asp. 57.40 - 61.45 Brecciated granite with Asp matrix size stringers. Granite is alter							84.25	4.30
size stringers. Granite is alter				34.45 - 57				
size stringers. Granite is alter ation increases with depth.	Brecciated granite with Asp matrix and	ated a	.45 Bred	57.40 - 61				
	ation increases with depth.	incre	ati					
							1000	
							,a	
						*******		111111111111111111111111111111111111111
						*****	-	

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DIAMOND DRILL RECORD

		FNKK			ERTY Kolsvik
		3.50			Bindal
ORE SIZI	Ē: _[TESTS (CORRECTED)):	
From	То			Description	
History				is highly	phibolitic rock. Granite brecciated and mineralized or shear.
1111			61.90 - 70.	65 Fractured as stringe	granite with a little Asp
)			70.65 - 74.	5 White fine granite.	e-med. gr. feldspar rich
		***************************************	74.5 - 75.	15	eralization on fractures
)			76.0 - 76. 76.65 - 77.		eralization on fractures
			***************************************		near
			78.95 - 79.	95 Brecciat zone cor	ted granite with py at shear ntact and Asp as fill and rs.
		************	79.95 - 82.	9 Unfracti	ured granite
			82.9 - 83.		near zone
			83.75 - 83.	8 Small sh	near zone.
34.25	87.30			1 % as strir	augen gneiss) quite a lot ngers, joint linings and iso
7.30	8 7. 65			n with xenoli e lined fract	iths of dioritic gneiss and tures.
7.65	9-1.20		granitic vei Between 88-8	ns. Down to 9	ss cut by later quartz and 90 m sheared and brecciated quartz — with arsenopyrite
			90.0 - 90.4	ralizatio into gran is cut by	vertical zone of Asp mine- on running though diorite nite (90.40-90.70). Granite of qtz veins 0.5 cm - 1 cm in grain of free gold was see
			91.10 - 91.3		c cross cut by chlorite veir

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% SULFIDMALM

	**********	NAME OF TAXABLE	-zone	BEARING:	DIP:90	HOLE NO: 3 80 SHEET NO. 4
GED B	Λ	r IV	KK	STARTED: 22	PROP	ERTY Kolsvik
			٥	FINISHED:		Bindal
NE SIZE		•		TESTS (CORRECTED)	r	
From	To				Description	
		**** ** *** ***			· · · · · · · · · · · · · · · · · · ·	
		- <i>t</i> -manage		Co	ore angles	0 = parallel core
P P P P P P P P P P	H					
111864.00			***************************************	Meterage	Angle	Туре
		******				Type
		·-···		4.20	56	foliation
				16.50	49	foliation
				27.50	15	shear
				44.25	35	foliation
7.2371111125			·	49.50	35	shear
			************	52.70	37	foliation
				E8 90	1.2	shearing shear
				£2.30	42	shearsheared-foliation
						Sheared Tollatic.
T-1111-						
·					********************************	
*********					many and a many	

777111	•			***************************************		
12		••••••				
*********			*****			
195111-14	-			etilesimmestiini e		

*10-0140			*********			
STATES.			************	***************************************		
			*****			6 5 5

		TESTS (CORRECTED):
From	То	Description
0	13.75	
	43.7	Overburden
13.75	13.85	Dioritic gneiss
13.85	19.45	Granite with dominant pink colour in upper portions
		Cut by quartz veins which have often Asp concentra-
		tions in contacts. Ash is also promet in the
		lets without quartz - in certain cases approaching breecia structure.
		Most Asp concentrations between 17 25 and 17 05 upo
-		coarse aggregates in association with quartz approa
19.45	32.15	Dominantly dioritic gneiss with typical augen struc
		$= 20.0 - 21.0 \text{ ()} + 2 \cdot 1.0 \text{ ()} $
		24.0 - 25.0 Thin granitic vein parallel to core
	- Market - 1000 - 1110 - 1110	26.0 - 26.40 Quartz rich granitie vein. 26.40 - 27.75 Dark med.gr. amphibolitic rock.
	AH100 W 5 22 400	27.70 - 20.0 Fractured
	201112211	28,25 - 28.35 Quartz rich granite with thin vein of
1000		29.10 - 29.40 Quartz rich granite with typical Asp breccia mineralization.
32.15	61.40	Granite
		32.15 - 36.95 Dominantly white and massive.
20		30.95 - 37.15 Fine gr. biotite/amphibole rook
	•	40.55 Unmineralized shear zone
7.0		. 55.1 - 55.7 Subvertical fracture with a little Aspand muscovite.
		Granite is dominantly white in colour with few xeno-
	(11) (11) (11)	Tiths and only limited fracturing and veining.
1.40	62.5	Biotite augen gneiss (dioritic).
2.50	62.90	White granitic vein
2.90	53.20	Biotite augen gneiss
3.20	53.75	White unpoitio wain
3.75	68,55	Biotite augen gneiss
		65.35 - 65.55 Fine gr. biotite-amphihole rock
		67.90 - 68.55 Brecciated granite and gneiss in a chlorite
	,	n/.YU = no nn brecciated granite and gneiss in a chlorite

% SULFIDMALM

LOCATION:	F-zone	BEARING: 226 DIP: 50) HOLE NO:	4 80 SHEET NO: 2
LOGGED BY:	JH FN KK	STARTED: 8.9.80	PROPERTY	Kolsvik
CASING:	15.0	FINISHED: 15.9.80	,	Bindal
CORE SIZE	36 mm	TESTS (CORRECTED):		

From	To		Description		
	- 17/A - 27/A		,		
8.55	70.9	Granite which	n in lower po	ortions is quite	gneissic.
0.90	85.65	Dominantly d	ioritic gneis	SS	
* * * * * * * * * * * * * * * * * * * *		70.95 - 71.3	5 white gran	nitic vein	
ii monie		75.00 - 76.2	5 med.gr. bi	iotite amphibole	feldspar gneiss
				nite with pyrite	
				d with secondary	xeolithe
					minerals.
		80.15 - 83.1	grey gran	ite	
5.65	91.3	White granit	e		
1.3	91.45	Qtz vein wit	h brecciated	contact.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	transmit warmen				
	***************************************	White granit			
1.45	***************************************	White granit	e with quart:	z veining	Sociation and the state of the
1.45	91.70	White granit	e with quart: spar, chlori	z veining	ss.
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld	e with quart: spar, chlori e	z veining te granitic gnei	ss.
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld	e with quart: spar, chlori	z veining te granitic gnei	ss.
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld	e with quart: spar, chlori e	z veining te granitic gnei	ss.
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit	e with quart: spar, chlori e Core Angles	z veining te granitic gnei	ss.
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage	e with quart: spar, chlori e Core Angles Angle	veining te granitic gnei 0 = parallel Type	core
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80	e with quarts spar, chlori e Core Angles Angle 33	z veining te granitic gnei O = parallel Type foliatio	core
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25	e with quarts spar, chlori e Core Angles Angle . 33 46	z veining te granitic gnei O = parallel Type foliatio foliatio	core
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40	e with quart: spar, chlori e Core Angles Angle 33 46 49	veining te granitic gnei O = parallel Type foliatio foliatio	core
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40 28.50	e with quart: spar, chlori e Core Angles Angle 33 46 49 50	veining te granitic gnei O = parallel Type foliation foliation shearing	core on on
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40 28.50 30.30	e with quarts spar, chlori e Core Angles Angle 33 46 49 50 65	veining te granitic gnei O = parallel Type foliation foliation shearing foliation foliation	core on on on
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40 28.50 30.30 56.80	e with quarts spar, chlori e Core Angles Angle 33 46 49 50 65 47	veining te granitic gnei O = parallel Type foliation foliation shearing foliation foliation contact,	core on on on on foliation
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40 28.50 30.30 56.80 61.35	e with quarts spar, chlori e Core Angles Angle 33 46 49 50 65 47	z veining te granitic gnei O = parallel Type foliation foliation shearing foliation contact, sheared	core on on on on foliation contact
1.45	9 1.7 0 92. 7 0	White granit Biotite-feld White granit Meterage 13.80 19.25 23.40 28.50 30.30 56.80 61.35 63.75	e with quarts spar, chlori e Core Angles Angle 33 46 49 50 65 47	veining te granitic gnei O = parallel Type foliation foliation shearing foliation foliation contact,	core on on on on on on on on on on on on on

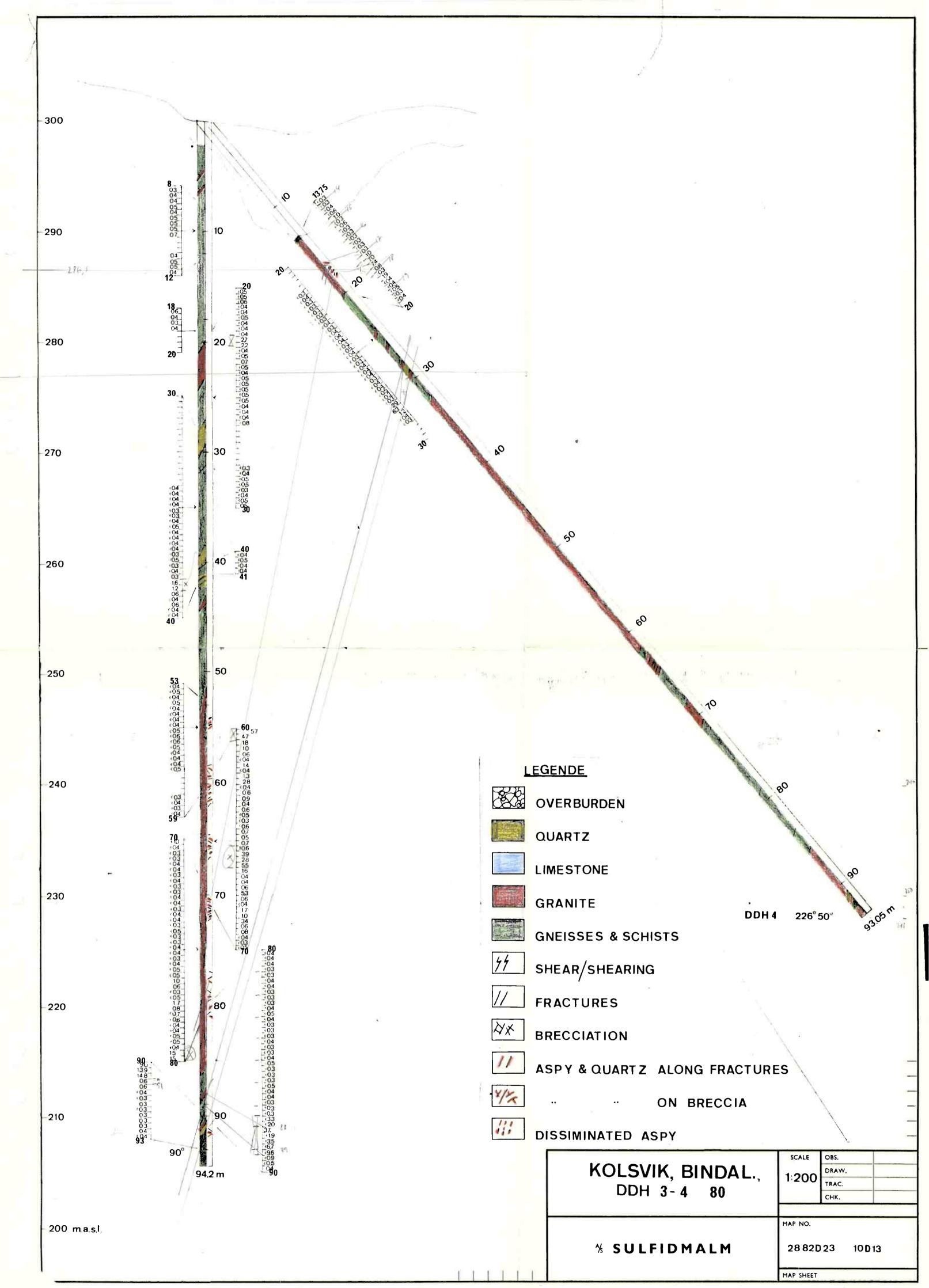
LOCATION: F zone	BEARING: 226	50 HOLE NO: 4 80 SHEET NO 3	
LOGGED BY: JH FN KK	STARTED: 8.9.80	PROPERTY Kolsvik	
CASING: 15.0	FINISHED: 15.9.80	Bindal	••••
CORE SIZE: 36 mm	TESTS (CORRECTED):		:::0 ::::

From	То			Description	
				2	
				Core Angle	es
		************	Meterage	Angle	Туре
			71.35	56	contact
			78.95	37	contact
			88.90	18	foliation
on one a			88.35	sub-horizonta	al to core contact
			91.70	15	contact
			92.70	15	contact

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		***********	water the same and		

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CERTIFICATION		**************	***************************************		i va va va va va va va va va va va va va

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LOCATION:	30 m N - 16 m E	BEARING: 082° DIP: 45° HOLE NO: 5/81 SHEET NO: 1
LOGGED BY:	ØMKK	STARTED: May 81 PROPERTY Kolsvik, Bindal.
CASING:		FINISHED May 81
CORE SIZE:	32 mm	TESTS (CORRECTED):

From	То	Description
0	5.70	Overburden
5.70	6.00	Mica schist, rich in carbonate
6.00	6.30	Loss of core
6.30	22.75	Sequence of mica schist. Strong variation in carbonate and quartz-fld. content. Mostly foliated (foliation 34°-45°). Fractures parallel subparallel foliation.
		14.70 - 15.50 Finegrained, dark zone rich in sulphides, mostly pyrite.
		20.55 - 22.75 Schist rich in quartz/fld eyes.
2 .7 5	29.00	Granite. Pink alteration. Weak brecciation in quartz rich parts. Aspy on some joint surfaces.
		25.80 - 25.85 Aspy in shearzone.
29 00	31.75	Marble
23.00		29.00 - 30.50 Carbonate breccia (Marble with fragments of mich sch
		30.50 - 31.75 Recrystallized limestone
	37.50	Reddish altered granite with some carbonate fractures
01.,0		34.50 - 37.50 Weak brecciation and much muscovite on fractures.
37.50	39.40	Marble with fragments of mica schist
39.40	42.40	Reddish altered granite. Some Aspy near the 39.40 contact.
42.40	46.40	Foliated marble with fragments of schist
46.40	47,70	Fine grained mica schist. Foliation 50°. 47.50-contact crushed.
47.70	5630	Marble with fragments of schist.
5630	60_00	Skarn. Rich in epidote, garnet, amphibole and chlorite. Zone cut by several granitic veins.
60.00	60.50	Granite
60.50	61.80	Mica schist.
61.80	62.60	Granite
62.60	63.00	Mica schist
63.00	64.20	Granite. Some subparallel fractures.
64.20	66.10	Mica schist. Foliation 51°.
66.10	66_40	Granite. Breccia texture. Traces of Aspy.
6640	67_20	Mica schist
67.20	67.30	Granite. Breccia texture.
67.30	69.15	Mica schist. Foliation 55°.
69.15	69:70	Granite -

	DIAMOND DRILL RECORD
LOCATION 30 m N - 1	BEARING: DIP: HOLE NO.
LOGGED BY: ØM / KK	STARTED: May 81 PROPERTY Kolsvik, Bindal.
CASING:	FINISHED: May 81
CORE SIZE: 32 mm	TESTS (CORRECTED):
From To	Description
69.70 72.20	Mica schist. The sequence is broken and fractured. Most fractures
	65°. Breccia texture in more quartz/fld. rich zone. Some carbonate veining.
72.20 72.55	Granite. Rich in quartz and good brecciation.
72.55 73.05	Mica schist.
3.05 73.60	Granite.
	74.40 - 75.70 Reddish alteration
	75.60 - 76.40 Increasing amount of dark minerals.
8	76.40 - 88.45 Massive granite with some fractures (*parallel core) 77.60-77.90: good
	Aspy mineralization on fractures. Also some chalcopyrite.
	86.00: Aspy associated with pyrite & chalcopyrite on fractures.
88.45 89.25	Diorite. Medium-grained and rich in mica. No foliation.
89.25 91.20	Granite
91.20 91.35	Diorite
91.35 91.80	Granite
91.80 92.80	Diorite
92.80 94.40	Granite
94.40 97.55	Diorite
97.55 97.80	Granite
.80 99.55	Diorite
99.55 100.00	Granite
100.00	End of hole.
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DIAMOND THILL RECORD

OCATION	30 m N = 16 m E	BEARING: 082° DIF. 55° HOLE NO. 6/81 SHEET NO. 1	
		STARTED. Nay 81 PROFERRY Kelevik, Birdsl.	
ASING:		FINISHED: May 81	
ORE SIZE:	32 mm	TESTS (CORRECTED):	

	То	Description
0	8.00	Overburden
8.00	11.80	Marble with fragments of schist
1.80	12.60	Mica schist. Well foliated (30°).
2.60	14.30	Granite. Dominantly massive with no major shear or fracture zones. Some thin carbonate lined fractures.
●30	18.30	Metasedimentary sequence. Mostly mica schist, but also horizons of marble. Foliation approximately 50°-60°. Well sheared from 16.50 till 16.90 and from 17.50 fill 17.70. Fractures and shear-zones mostly parallel and subparallel foliation.
30	18.60	Marble
18.60	20.95	Well-foliated mica schist (foliation 55°)
20.95	29.40	Granite. Rich in quartz and variable reddish alteration. Occasio nally rich in chlorite. Aspy on some fractures and as scattered grains.
29.40	30.90	Well-foliated mica schist. Foliation approximately 60°.
30.90	32.60	Marble
32.60	32.95	Granite, dominantly massive.
32.95	33.35	Marble
33.35	33.60	Granite
33.60	34.80	Marble. From 34.60 till 34.80 good skarn mineralization, rich in diopside and garnet.
80	37.00	Granite. Dominantly massive with no major shear or fracture zones
37.00	41.45	Marble 37.00 - ab. 40.00 Marble with fragments of mica schist. Foliation 57°.
		40.00 - 41.45 Marble with skarn mineralization.
41.45	41.80	Well fractures mica schist.
41.80	42.25	Marble
42.25	42.60	Granite
42.60	42.85	Marble
42.85	43.05	Granite
43.05	44.30	Marble
44.30	47.20	Mica schist 45.00 - 45.80 Extremely well sheared.
		45.80 - 47.20 Well fractures and brecciated. Dominating fracture are 27°
47.20	54.15	Marble 47.20 - ab 49.10: breccia texture. 49.10 - 54.15 foliated marble

4/s SULFIDMALIA

LOCATION: 30 ni N - 16 m E	BEARING 082° DIP. 65° HOLE NO. 6/81 SHEET NO. 2
LOGGED BY: CH. / KH.	STARGED Kay 81 PROPERTY Kolsvik, Bindal.
CASING:	FINISHED: May 81
CORE SIZE: 32 RIM	TESTS (CORRECTED):

From	То		Description
54.15	56.90		Granite. Dominantly massive with no major shear or fracture, but some crushing near the 56.90 contact.
56.90	65.60		Mica schist. 56.90 - 62.70 Well foliated mica schist. Foliation variable between 25° and 60°. 62.70 - 63.00 Shear zone
			63.50 - 63.70 Shear zone
11			64.80 - 65.00 Skarn mineralization.
65.60	67 20		Granite
20	68.85		Well-fractured mica schist.
58.85	69.95		Brecciated granite. Chlorite and epidote on breccia texture.
69.95	70.20		Well fractured mica schist
70.20	*************		Granite. Local brecciation, particularly near the contacts.
75.10			Mica schist. Foliation 70°.
	V20021-001-		Brecciated granite.
			Mica schist, fractured near the contact zones.
			Granite
			79.30 - 80.00 Brecciated granite
	0		80.00 - 90.00 Massive medium grained granite.
		90.00	End of hole.
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% SULFIDMALM

OGGED B	20	BEARING: 060° DIP: 40° HOLE NO: 8/81 SHEET NO: 1 STARTED: PROPERTY Kolsvik, Bindal. FINISHED: TESTS (CORRECTED):
From	То	Description
0	2.00	Overburden
2.00	13.20	Granite 2.00 - 10.00 Medium grained granite. Some fractures and thir quartz veins are cutting. Aspy on some fractures, also pyrite 10.00 - 10.25 Granite rich in quartz. Some Aspy mineralization 10.25 - 13.20 Medium grained granite. Some fractures and quartal control of the c
116124-184		veining. Good Aspy-mineralization on fracture a
13.20	16 10	Gneiss. Gneiss rich in biotite, varying from augen to banded appearance. Foliation (40°-50°) is cut by quartz-veins near
16.10	16.80	the 13,20 contact. Some pyrite is seen in gneiss. Granite rich in muscovite. Disseminated pyrite on Aspy on quartz vein near 16.80 contact.
16.80	17.10	Augen gneiss.
17.10	18.70	Granite. Muskovite-granite cut by quartz veins. Aspy, py, cp
18.70		diorite (foliation 25°).
19.70	20.00	Loss of core
20.00	20.15	Finegrained dioritic gneiss.
20.15	20.65	Medium grained granite, white in colour.
20.65	27.90	Augen gneiss. Good foliation (45°). Most fractures parallel/ subparallel foliation. Disseminated pyrite and Aspy, Aspy esp cially in quartz-eyes.
27.90	28.75	Granite, white in colour.
28.75	32.30	Foliated augen gneiss, cut by small granite veins, Py on some fractures.
32 20	33.00	Granite. Aspy at the 33.00-contact.
33.00	34.80	Banded, fine grained gneiss.
34.80	35.05	Granite.i.e. vein.
35.05	46.70	Foliated banded gneiss. Quartz/fld. bands are folded. Alteration (zeolite mineralization) along some fractures. Py on
		Enem 35 5 40 0 Chains Mastly sugar texture but also more

Quartz vein cutting nearly parallel foliation.

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CORE SIZE	E: 3 2	mm TESTS (CORRECTED):
		TLOTO (CONNECTED):
From	То	Description
46.70	50.05	Granite rich biotite
		At 46.80 - 47.15 Quartz
		Aspy on fracture at 49.80 m.
50.05	54.45	At 50.0 Quartz vein. Aspy mineralization in 50.05 contact zone Gneiss. Granite veins are cutting foliation.
54.45	54.80	Granite.
		54.45 - ab 55.50 Granite containing some biotite. Some Aspy vein on fractures and near 54.45 contact.
		at FE FO FE OO Descripted annuity lifethy don't element them.
		on breccia texture. Visible Au at 55.65.
55.80	5 8. 5 5	Gneiss
		55.80 - 57.00 Brecciated and fractured augen gneiss.
rae rous		57.00 - 58.55 Fractured augen gneiss, no breccia texture.
58.55	59.40	
59.40	59.90	Foliated augen gneiss (foliation 30°). Contacts are crushed.
	64.55	Granite.
		59.90 - 60.70: Weak breccia tex. in quartz/fld-rich granite.
		Scattered Aspy mineralization. 60.70 - 61.50 More biotite, no brecciation.
		61.50 - 64.55 Well-fractured and weakly brecciated granite.
64,55	65.05	Some Aspy mineralization. Fine grained and foliated dioritic gneiss.
	71.45	
03.03		65.05 - 67.10 Quartz/fld-rich granite. Breccia texture at con-
		67.10 - 67.50 Massive granite
	***************************************	67 10 - 21 45 Brecciated quartz/fld-rich granite Asny minerali-
71.45	74.00	Brecciated and sheared augen gneiss.
74.00	74.20	Fractured granite
74.20	74.40	Sheared augen gneiss.
74.40	77.70	Brecciated and sheared granite. Aspy, especially from 74.40 - 76.
77.70	78.20	Sheared augen gneiss.
78.20	7 8. 60	Granite containing fragments of gneiss show brecciations. Only epidote chlorite on breccia texture.
7 8.60	78.90	Sheared augen gneiss.
7 8 9 0	79.30	Brecciated granite. Scattered Aspy minerals
	and the second second	Di cectated grantee, bedetered hapy namerata

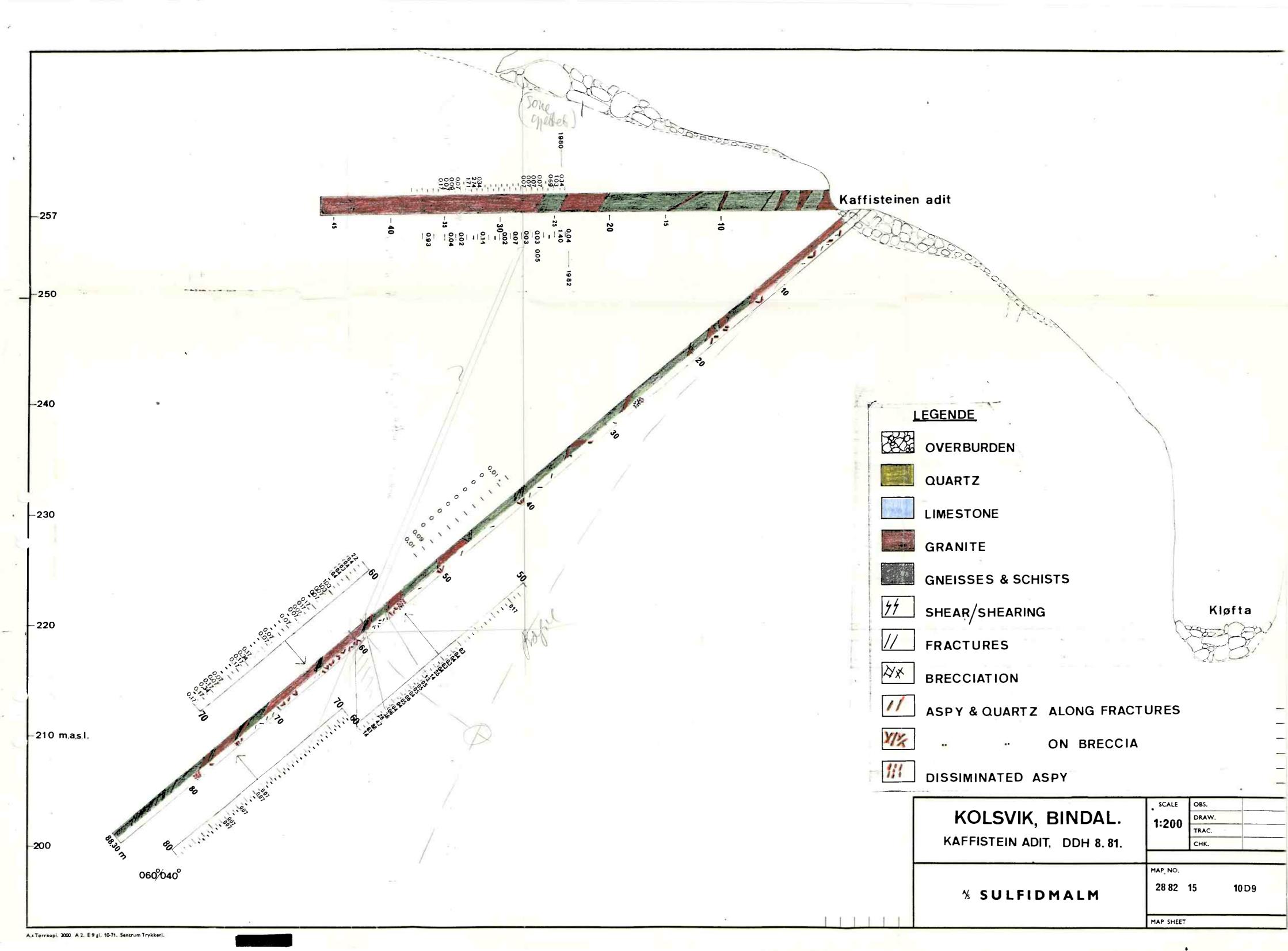
OCATION: 254 m S 85 m			BEARING: 060° DIP: 40° HOLE NO: 8/81 SHEET NO: 3. STARTED: PROPERTY Kolsvik, Bindal
ASING:			FINISHED:
ORE SIZE	: 32 m	ım	TESTS (CORRECTED):
-1100			
From	То		Description
30.00		n (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	
79.30	82.00		Foliated augen gneiss. Foliation varying from 5° till 30°.
			Quartz veins cutting foliation show weak brecciation, other- wise little deformation.
	88.30		Changing between fine grained dicritic gneisses and
		************	augen gneiss.
			82.00 - 84.00 Fine grained, biotite rich dioritic gneiss. Son
			quartz veins. Fracturing parallel core.
		*****	84.00 - 84.25 Augen gneiss
			84.25 - 84.60 Fine grained dioritic gneiss. 84.60 - 85.35 Augen gneiss. Well sheared last 30 cm. Frac-
			tures parallel core.
			85.35 - 85.60 Fine grained dioritic gneiss.
		**********	85.60 - 86.00 Foliated augen/banded gneiss. Foliation 5°,
		**********	and some fractures parallel core.
			86.00 - 86.50 Fine grained dioritic gneiss.
			86.50 - 88.30 Augen gneiss.
1/15====			· ·
		88.30	End of hole.

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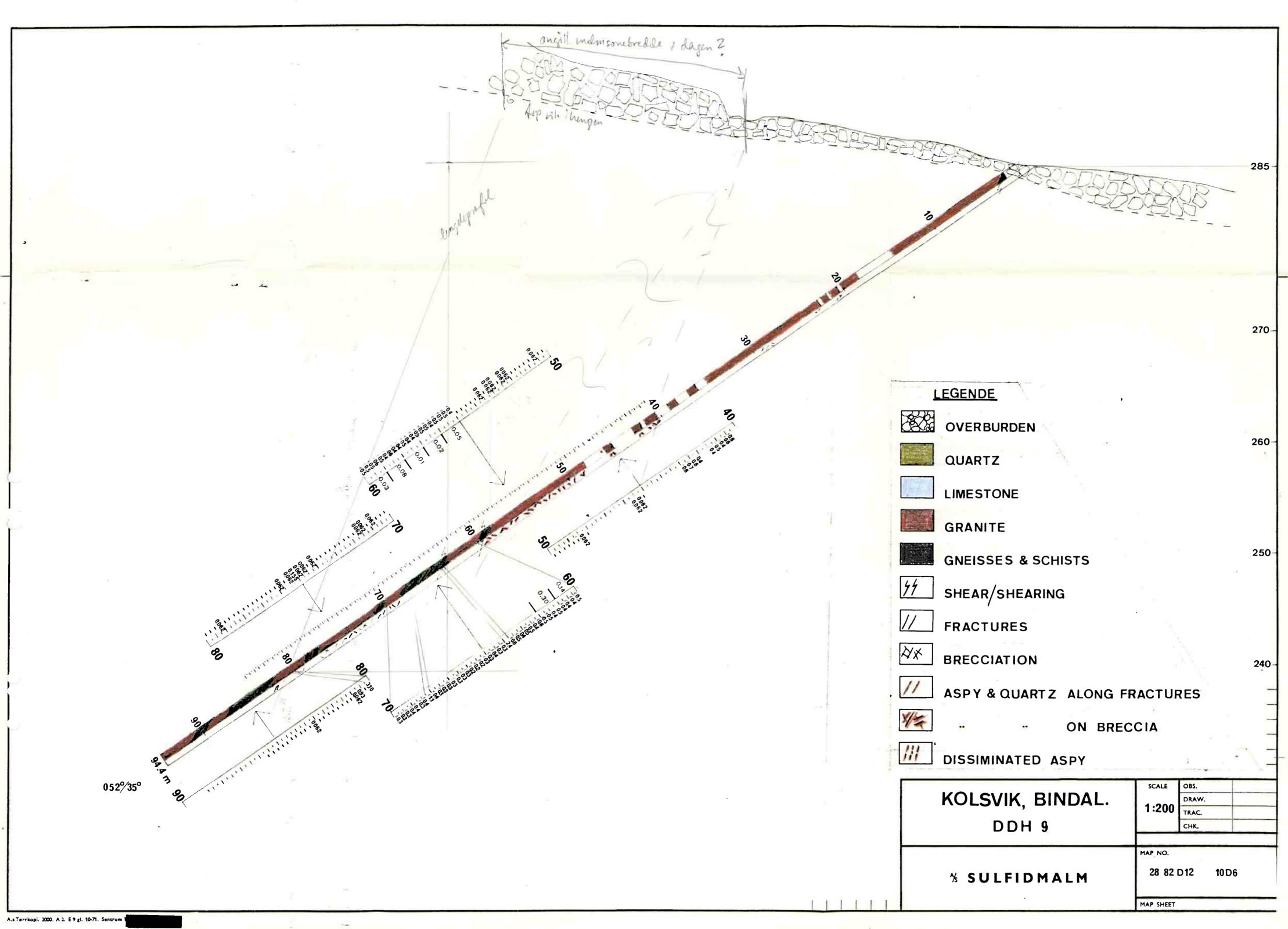
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CASING:		OM STARTED: PROPERTY Kolsvik, Bindal. FINISHED:
		TESTS (COHRECTED):
From	То	Description
0	1.80	Overburden .
1.80	2 20	Granite, rich in biotite. Rather massive.
2.20	2 40	Fine grained dioritic gneiss.
2.40	14.45	Granite, rich in biotite. Some crushing at 3.30 contact.
	3-	
w ne		
14.45	18.30	Loss of core.
18.30	20.00	Granite
20.00	20.35	Loss of core.
20.35	21 30	Granite.
		20.35 - 20.75 Some fracturing 20.75 - 21.30 Rather massive.
21.30	21 55	Loss of core.
21.55	22.10	Granite. Massive and rich in biotite.
22.10	22 55	Loss of core.
22.55	35.00	Granite
	***************************************	22.55 - 23.50 Some fracturing
		23.50 - 27.75 Massive and dark granite.
		27.75 - 30.00 Less dark minerals as previous section. Some weak brecciation and green epidote mineralization
		30.00 - 35.00 Massive granite, but varying biotite content, decreasing from ab. 33.00.
35.00	36 00	Loss of core
36.00	36.95	Massive granite
36.95	3 8.15	Loss of core
38.15	39.00	Massive granite.
39.00	40 15	Loss of core. 7
40.15	41 55	Granite.
40.13	41.33	40.15 - 40.20 Breccia texture in quartz rich granite. Aspy on the texture.
	· · · · · · · · · · · · · · · · · · ·	40.20 - 41.50 Aspy on fractures in grey granite.
41.55	42 00	41.50 - 41.55 Brecciated granite. Rich in quartz and Aspy. Loss of core.
42.00	***************************************	444444
42.00	42.90	Granite. Varying breccia texture in quartz/fld rich granite. Aspy on breccia texture and fractures 90° core.
40.00		2
42.90	45.00	Loss of core
45.00	45.80	Brecciated granite 45.00 - 45.70 Weak brecciation and scattered Aspy mineralization
		45.70 - 45.80 Aspy on breccia textures and fractures 70° core.

LOCATION: 333 m S - 123 m E	BEARING: 052° DIP: 34.9° HOLE NO: 9/81 SHEET NO 2.
LOGGED BY: ØM	STARTED: PROPERTY Kolsvik, Bindal.
CASING:	FINISHED:
CORE SIZE: 32 mm	TESTS (CORRECTED):

From	To		Description
45.80	48.00		Loss of core
48.00	59.10		Granite
			48.00 - 48.80 Biotite rich granite. Disseminated Aspy. 48.80 - 51.60 Brecciated granite. Aspy on breccia texture and fractures. 51.60 - 52.30 No breccia texture and Aspy. 52.30 - 59.10 Good breccia texture and Aspy mineralization.
			Best mineralization on fractures 90° core.
59.10	60.15	*****************	Extremely sheared augen gneiss. (Maybe the F-1 fault?)
60.15	64.00		Granite
		Sove	60.15 - 62.00 Brecciated granite with Aspy 62.00 - 64.00 Brecciated granite, extremely rich in quartz. Aspy mineralization.
64.00	66.20		Foliated augen gneiss. Some fractures parallel/subparallel
(min july), it is find the particular			foliation. Highly sheared at upper contact.
66.20	66.40	201-10 minutes (1)	Granite 61.8 fastsonly 1 ms / hill
66.40	6850		Foliated augen gneiss. Cut by quartz veining containing scattere Aspy. Shear near the lower contact.
68.50	71.10	***************************************	Brecciated quartz rich granite. Good Aspy mineralization.
71.10	71.70		Sheared, fine grained dioritic gneiss.
71.70	78.10		Brecciated granite. Generally little or no Aspy mineralization, apart from 74.50 - 75.00 interval.
78.10	78.30	***************************************	Fine grained dioritic gneiss.
78.30	78.60		Granite, rather massive.
78.60	79.10		Fine grained dioritic gneiss.
79.10	83.00		Granite showing varying brecciation and Aspy mineralization. 79.10 - 80.00 Weak brecciation, no Aspy mineralization. Texture cut by quartz veining.
lan am		fone.	80.00 - 81.00 Breccia texture with Aspy. 81.00 - 82.70 Weak brecciation, scattered Aspy mineralization. 82.70 - 83.00 Epidote and zenolite mineralization. Greenish
83.00	87.50		Foliated dioritic gneiss. Foliation 20°.
87.50	90.50		Granite, rather massive. Some pyrite crystals.
90.50	91.35		Fine grained dioritic gneiss. Rich in pyrite. Cut by granite veining.
91.35	-94:60		Granite. Rather massive. From 92.20 extremely rich in biotite.
		94.60	End of hole



LOCATION	v: 318	S - 102 m E BEARING: 062° DIP: 36° HOLE NO: 10/81 SHEET NO:	1.
LOGGED	BY:	M STARTED: PROPERTY Kolsvik, Bindal.	
CASING:		FINISHED:	
CORE SIZ	Æ:32	TESTS (CORRECTED):	
From	То	Description	
0	3.95	Overburden	
3.95	7.30	Foliated augen gneiss, rich in biotite. Foliation 35°.	
7.30	7.60	Granite, rather massive.	
7 60	12.10	Foliated augen gneiss. Foliation between 30° and 0°.	
12.10	12.50	Granite. Contacts (35°) are cutting gneiss foliation.	
12.50	14.05	Foliated augen gneiss. Foliation 25°.	
14.05	15.50	Granite. Contacts (35°) are parallel gneiss foliation.	
15.50	16.70		
16.70	19.60	Granite. More biotite near the lower contact.	
19.60	20201	Gneiss, more banded that previous sections.	
20.20	26.30	Granite with quartz, some fractures.	
21	- 4		
26.30	31.00	parallel foliation. Slickensides can be seen on some fracture	b- sur-
31.00	31.45	Granite.	ices.
31.45	40.40	Foliated augen gneiss. Foliation 15°-45°. Gneisses cut by g veining. From 37.00 some Aspy on late fractures.	ranite
40,40	-41:30	Brecciated granite Good Aspy mineralization. Dominating dir	ection
41.30	4300	Brecciated quartz. Epidotite on breccia texture.	
43.00	47.10		bioti
9	10 964	. Foliation 45°-30°.	
47.10	4 8-50	Brecciated granite. Pink alteration colour. Good Aspy minera between 48.00 - 48.30, especially on 65° fractures.	lizati
48.50	49.75		
49.75	53.70	tive directions of fractures (both 45°) make a brecciated text	ure.
		Good Aspy on all fracture. Lower contact is highly fractured	
111	54.00	Highly sheared gneisses.	
54.00	57 30	Brecciated quartz. Good Aspy mineralization. In places massi Aspy veining (thickness 5 cm).	ve
57 30	82.60	Granite. Usually brecciated but varying Aspy mineralization. places quartz rich. Occasionally deformed fragments of augen ses. Lower two meters green epidote & chlorite mineralization breccia textures and little	gneis-
82.60	83 20	breccia textures and little Aspy mineralization.	

LOCATION: 318 m S - LOGGED BY: ØM CASING: 32 mm		STARTED: PROPERTY Kolsvik, Bindal.
		FINISHED:
	E:	TESTS (CORRECTED):
From	То	Description
83.20	105.60	Granite.
		83.20 - 88.00 Brecciated, quartz rich granite, rich in chlorite & epidote and just spots of Aspy. 88.00 - 90.00 Granite with sericite. Aspy on some fractures. 90.00 - 98.00 Dark granite (rich in biotite) showing foliation (foliation 30°) 98.00 - 100.00 Dominantly white in colour. 100.00 - 104.50 Granite, rich in quartz. Some spotted Aspy miner 104.50 - 105.60 Dark granite, cut by white granite veining.
105.60	106.35	Highly sheared, green looking augen/banded gneiss. Rich in epido & chlorite.
106.35	112.50	Granite.
		106.35 - 110.00 Dark granite cut by light granite veining. 110.00 - 112.50 Biotite rich granite showing weak foliation (foliation 35°).
12.50	112.70	Foliated dioritic gneiss.
	144.00	Granite
		112.70 - 115.10 Foliated dark granite 115.10 - 117.00 Light granite. Higher and lower contacts cut foliation in darker granite. 117.00 - 144.00 Foliated dark granite. Foliation 40°-45°. At 119.00 - 119.10 Aspy on fractures cutting foliation.
	144.00	End of hole.

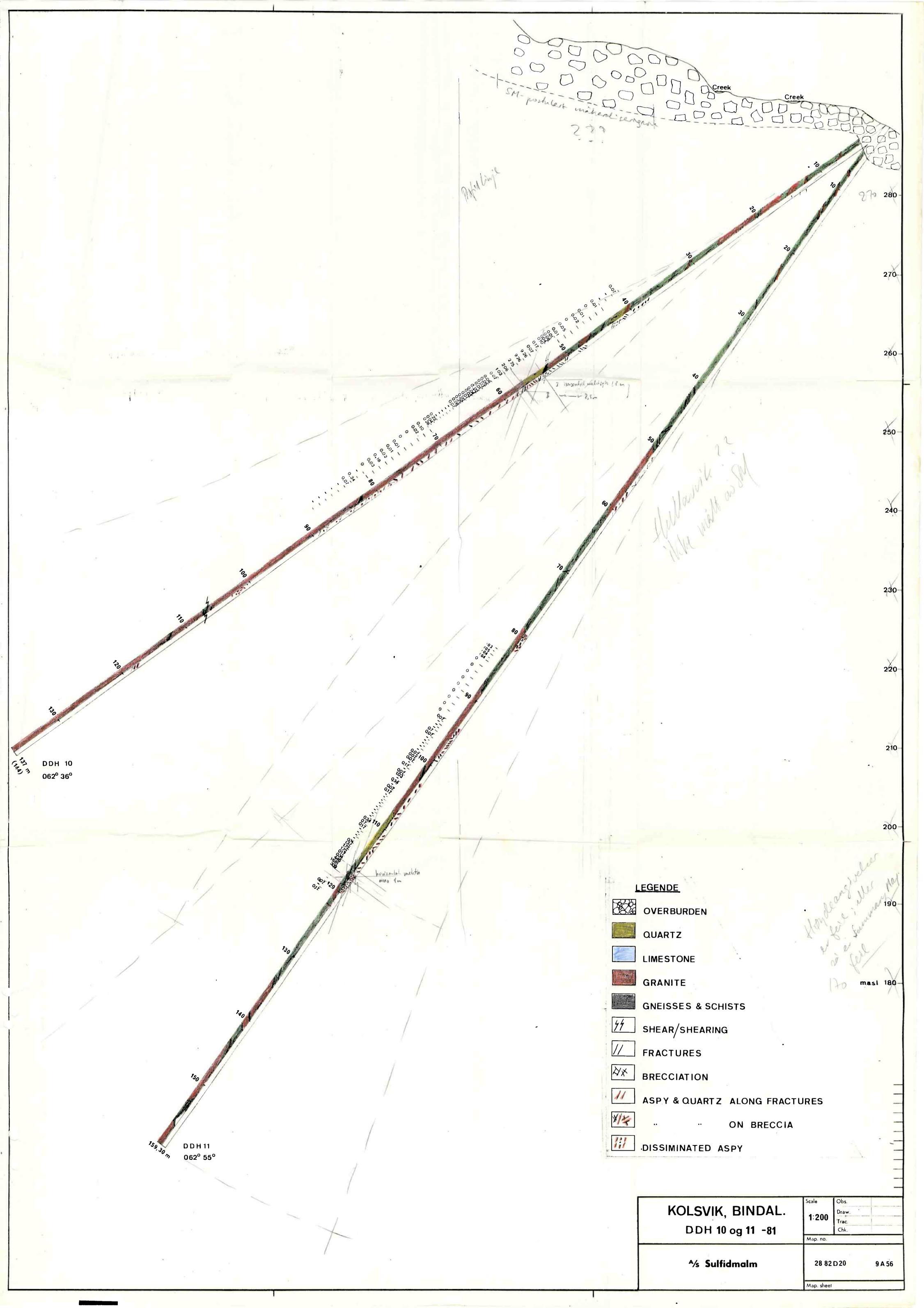
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LOCATIO	ON: 318 m S	102 m E BEARING: 062° DIP: 55° HOLE NO: 11/81 SHEET NO: 1.		
	BY: ØM			
CASING:		FINISHED:		
CORE SIZE: 32 mm TESTS (CORRECTED):				
From	То	Description		
0	4.40	Overburden		
4.40	26.90	Foliated augen gneiss. Foliation 10°-30°. Foliation cut by discordant granitic veins rich in pyrite.		
:		Fine grained, biotite rich dioritic gneiss. Pyrite mineralization. Lower and upper contacts are parallel foliation.		
	-			
51.05	61.90	scovite, chlorite and epidote. From ab. 55.00 Aspy veining on fractures.		
61.90		Foliated augen gneiss. Foliation ab. 25°. Weakly foliated.		
79.20	82.60	Granite 79.20 - 80.70 Some fractures parallel/subparallel core. Disseminat		
		Aspy. 80.70 - 82.60 Breccia texture in quartz-fld rich granite. Aspy mi ralization seems to be concentrated on ≈ 22° directio		
82.60	3000 0000	Foliated augen gneiss. Fractures at 82.60 contacts and at 85 and 8		
89.40	101.50	Granite 89.40 - ab. 94.00 Rather massive granite.		
		94.00 - 97.00 Breccia texture and more quartz than previous section Aspy from 95.00 - 97.00 in well fractured zone.		
101.50	102.75	Foliated augen gneiss. Foliation 8°. Some Aspy mineralization on crosscutting fractures.		
102.75	108.35	Granite. Breccia texture and also foliated in more biotite rich zones. Dominating direction of fractures and mineralization is 65°		
108.35		Quartz. Breccia texture over the whole sequence, but varying Aspy mineralization. 108.35 - 110.00 Poor mineralization 110.00 - 112.50 Good mineralization, especially from 116.50 m. Lower ½ m nearly massive Aspy.		
117.50	120.00	Extremely sheared and broken augen gneiss.		
120.00	120.40	Brecciated granite. Rich in quartz and good Aspy mineralization.		
120.40	120.80	Highly sheared augen gneiss. Disseminated Aspy mineralization.		
120.80	121.50	Brecciated granite. No mineralization.		
121.50	134.40	Foliated augen gneiss. Foliation 6° - 38°. Some thin shearzones. Most fractures subparallel core. Occasionally rich in py, but also		
	135.05	traces of Aspy.		

CASING:	32 mm	STARTED: PROPERTY Kolsvik, Bindal.
	E	***************************************
From	To	Description
		Description
135.05	139.75	Granite containing fragments of gneisses. Aspy on fractures.
1 3 9. 7 5	140.10	Foliated augen gneiss
140.10	141 30	White looking granite
141.30	145.05	Foliated augen gneiss. Foliation 20°-25°.
145.05	145.40	Granite, rich in quartz. Some Aspy.
145.40	147.10	Foliated augen gneiss. Foliation 28°. Aspy mineralization in som discordant fractures. Also some Aspy at lower contact.
147.10	152.00	Granite. Strong variation in quartz and biotite content. Breccia ted and mineralized from 147.50-147.80. In lower part foliated granite.
152.00	-154.03	Foliated augen gneiss
154.05	···156:.50 ······	Granite. Rather massive.
156.50	156:90	Fine grained, foliated dioritic gneiss.
156.90	-159:30	Massive granite.
	159.30	End of hole.
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LOGGED	BY:	ØM	STARTED: PROPERTY Kolsvik, Bindal.			
			The state of the s			
	ORE SIZE: 32 mm TESTS (CORRECTED):					
From	То	ĺ	Description			
0	5.00	daya Parteeri i isaa	Overburden			
5.00	30.50		Granite. Strong variation in biotite content. Darker variants show weak foliation. Scattered Aspy mineralization, mostly isolated grain on late fractures.			
		**********	Quartz. at 30.50 - 30.80.			
30.80	46.80		Gneisses.			
-1-1001		************	30.80 - 37.50 Foliated augen gneiss, foliation 10°-25°, cut by quar /granite veining. Most veins parallel/subparallel foliation. Near 30.80 contact a lot of epidote mineralization. Traces of Aspy in quartzveins.			
			37.50 - 40.00 Foliated augen gneiss 40.00 - 42.30 Deformed and brecciated augen gneiss. Breccia texture best developed in quartz rich parts, but also quartz eyes show deformation textures. Occasionally lesser shear/shearzones. Very little Aspy mineralization, but visible Au near 40.00 contact. 42.30 - 46.80 Foliated augen gneiss. Foliation 35°-50°.			
46.30	47.00		Granite			
47.00	52.70		Foliated augen gneiss, foliation 35°-50°.			
52.70	54.60	************	Granite. Scattered Aspy, mostly related to late fracturing.			
54.60	60.50		Dioritic gneiss. Gneisses are rich in biotite and show good foliati Some quartz/fldveins cutting the foliation.			
			Transition to augen gneiss at 60.0m.			
	60.80	*****	Granite, rather rich in biotite.			
60.80	72.90		Gneisses, mostly augen gneisses, but some horizons of fine grained biotite rich rocks. From 67.50 - 69.00 extremely sheared augen gneiss. foliation 25° - 35°. At 61.70 m granitic vein.			
72.90	74.45	***************************************	Granite. Rich in quartz and showing weak breccia texture. Some Aspy and quartz filling on 28° fractures.			
	85.10		Foliated augen gneiss, foliation 5° - 30°. Occasionally good chlorite & epidote mineralization, especially related to fractures. Near lower contact some skarn minerals. Strong shearing latest 0.65 m.			
	102.5		Granite. 85.10 - ab 88.00 Quartz rich granite showing breccia texture with Aspy. Aspy is not related to any special direction, but chlorite & epidote are concentrated on 57° - 62° fractures. Upper contact strongly sheared. 88.00 - 99.00 Brecciated granite containing some Aspy and chlorite & epidote mineralization. 99.00 - 102.50 Quartz rich granite with good brecciation and Aspy			

			DIAMOND DRILL RECORD
LOCATION	ı: <u>16</u>	O m S 5	The state of the s
		Ø.M.	NOISVIN DIFFICIL
CASING:	E: 32	mm	FINISHED:TESTS (CORRECTED);
			TEOTO (COMPLOTED):
From	То		Description
102.50	113.4		Gneisses, probably a metasedimentary sequence varying from augen gneisses till strongly sheared/deformed dioritic gneisses. Some breccia texture in augen gneisses near upper contact. From 112 m granitic veining, nearly parallel core.
113.40	119.3	0	Granite. Varying quartz content and always showing brecciation. Strong fracturing with 50°-60° as dominating direction, but in latest 1.5 m≈ parallel. No Aspy mineralization on breccia textures
119.30	121.5	0	Foliated dioritic gneiss. Foliation 28°.
121.50	121 .80	þ	Granite
121.80	123.3	P	Dioritic gneiss; no foliation.
123.30	124.4		Granite.
	*************	124.45	End of hole.
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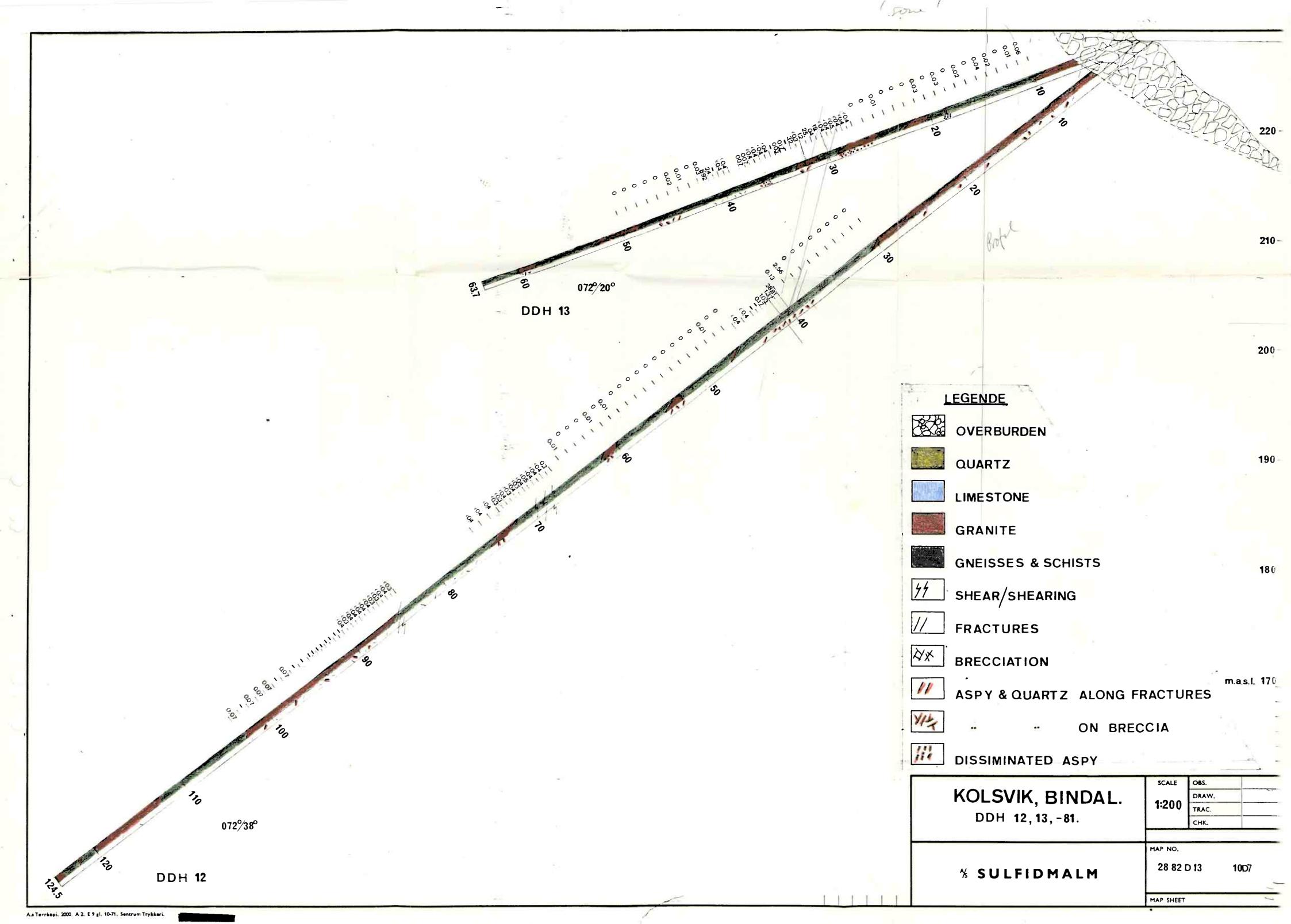
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LOCATION: 116 m S 57 m E	BEARING: 072° DIP:	20° HOLE NO:	13/81 SHEET NO. 1
LOGGED BY: Ø.M.	STARTED:	PROPERTY	Kolsvik, Bindal.
CASING:	FINISHED:	*****	
CORE SIZE: 32 mm	TESTS (CORRECTED):		•

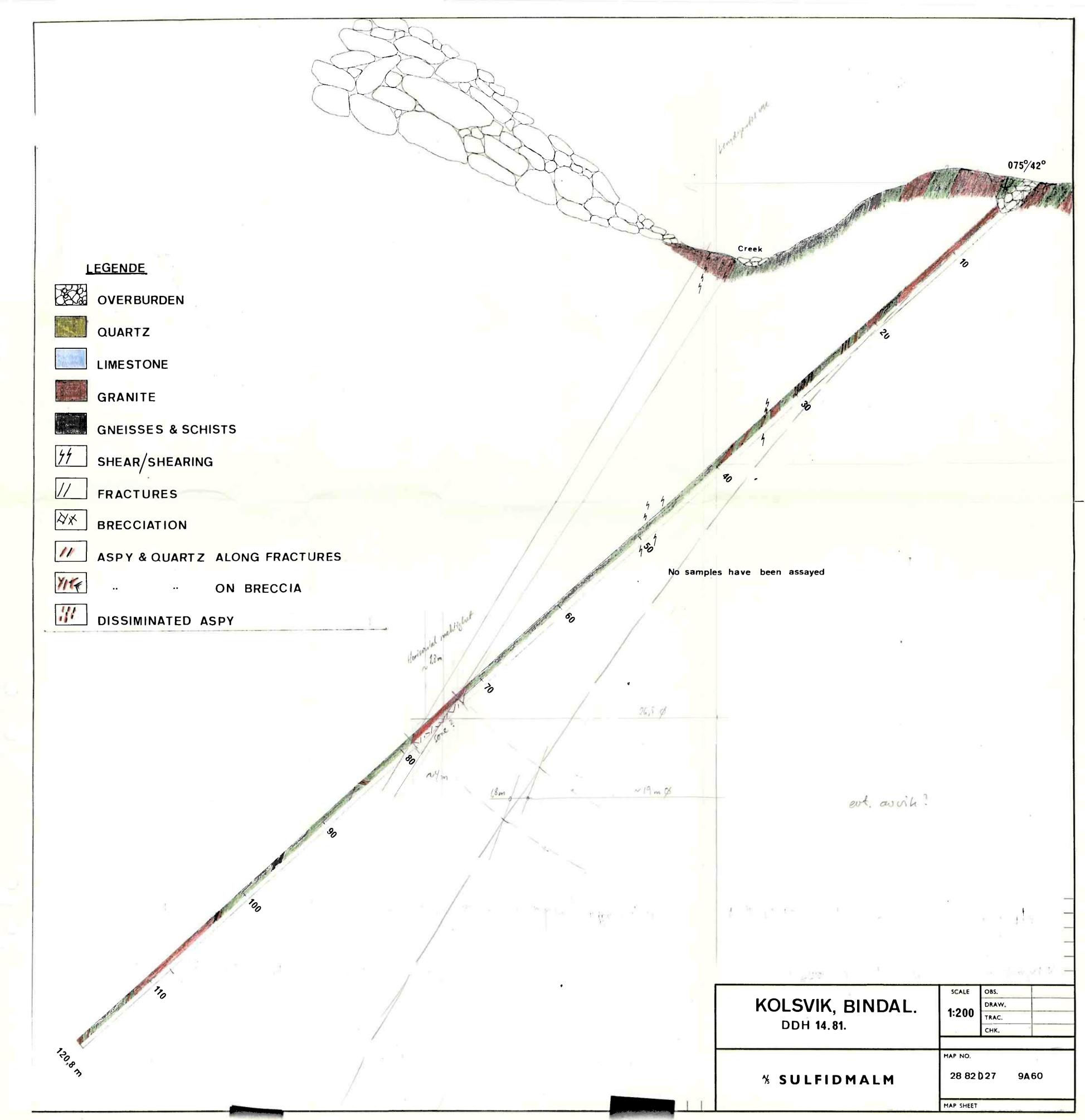
From	То	Description
0	6.00	Overburden
6.00	10.50	Granite rich in mica, specially biotite but also muscovite.
10.50	18.60	Gneisses. Strongly varying textures from fine grained till augen gneisses. All textures show foliation (60°-70°) Occasionally skarn mineralization. Also zones rich in epidote and chlorite.
18.60	18.80	Granite. Some scattered Aspy, usually together with py.
18.80	20.70	Foliated augen gneiss. Foliation 40°.
20.70	21.15	Granite. Aspy veining near upper contact.
21.15	25.70	Gneiss. Texturally strong variation (as previous section), but all variants show foliation (55°). Granite veining cut this foliation, and from 22.50 till 24.70 much diopside and garnet mineralization can be seen.
25.70	29.50	Granite. Rich in biotite and some disseminated Aspy, mostly near lower contact.
	31.10	and the second s
	33.65	ture only from 33 40 m linner contact strongly deformed Some
12.0	36.00	Foliated augen gneiss (Foliation 20°) Some Aspy over 10 cm near
	36.20	Near lower contact and namellel this 1 cm Aeny
	36.65	
I	36.80	
	48.70	Foliated augen gneiss, foliation 50°-60°. From 37.75 extremely rich in quartz and showing brecciation texture without mineralization.
		At 38.60 shearing. Foliation 55°.
		At 40.9 - 41.5 quartz. Massive, coarse grained Aspy on fractures. Dominating direction ab. 20°. Mineralization seems to cut a weak breccia texture without mineralization. Also some py can be seen.
		From 41.0 - 48.7 a fine grained, biotite rich augen gneiss. Foliation 50° - 60°. Aspy mineralization on some fractures parallel/subparallel foliation. Also some granite veining cutting gneisses nearly parallel foliation.
48.70	52.95	Granite. Poor in mica, but rich in chlorite and epidote, giving a green colour. Only disseminated Aspy.
52.95	58.7 0	Gneisses. Dioritic texture and no foliation. Fracturing at lower contact.

ASING: DRE SIZE	32: 3 2	Ø.M.	FINISHED:			
From	To -		Description			
58.70 60.30	63.70		Brecciated granite. Mostly epidote on breccia texture and so scattered Aspy on fractures. Augen gneiss, occasionally sheared.	me		
		63.70	End of hole.			
		20-2112-25 S				
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CASING:		Ø.M.	FINISHED:ROISVIR, Bindal
CORE SIZ	3	12 mp	TESTS (CORRECTED):
From	То		Description
0	4.00	1	Overburden
4.00	17.60		Granite. Massive granite with some variable biotite content.
17.60	19.55		Mica schist. Fine grained and rich in biotite. Granice veining is cutting a weak foliation (55°)
19.55	21.00		Granite. Some alteration (zeolitization) along fractures.
21.00	29.70		Gneiss. Mostly fine grained showing a weak biotite foliation, but occasionally augen gneiss. Foliation 45°-55°. Between 22.30 - 24.25 and 28.30 - 29.70 granitic veins and cutting gneiss.
29.70	30.35		Granite.
30.35	32.20		Gneiss Foliation 18°. Some py can be seen.
32.20	-33:25		Granite.
33.25		zone 1	Augen gneiss, showing foliation (10°). Some granite veining, nearly parallel ore. Lower contact, from 34.00, is crushed.
34.35	.34.75	£0"	Granite. Breccia texture containing epidote and chlorite.
34.75	3730		Foliated dioritic gneiss (foliation 37°) cut by granite veining.
37.30	-3780	J	Granite. Rich in biotite and showing foliation (35°).
37.80	3825.		Gneiss
38.25	-40 -20	1	Granite, rather massive.
52.0			Augen gneiss. Mostly changing between augen and banded textures, but occasionally also fine grained dioritic rocks. Foliation 15°-2
		20M	Granite. Very rich in quartz, in places pure quartz. Usually brec texture, but only scattered Aspy mineralization can be seen.
78.95	86.90		Augen gneiss. As previous section changing between augen - and bantextures. Foliation 10°-40°. From 84.10 - 84.50 cut by granite
86 90		************	veining.
0.90	± (J(),, ()(),	**************	Gneiss rich in biotite and showing weak foliation (foliation 20°-50°). Occasionally much chlorite and epidote. Upper 3 m cut by quartz veining.
			95.40 - 95.60 granite 96.25 - 96.55 granite showing weak breccia texture. Traces of Aspon a single fracture.
0.00	103.00		Gneiss,
3.00	103.45	***************************************	Granite.
	The second secon		Gneiss
	114.00	***********	Granite. Little biotite, giving a bright colour. From ab. 110 m fr ments of augen gneiss.
4.00	14.80		Gneiss showing foliation (47°)
4.80	15.20		Granite.
h-c	20.80		Gneiss, cut by granite veining. Foliation 45% and veining nearly parallel core.
	SSS 1111-115	4.00-00	NOS. MIRROR



	PROPERTY Kolsvik, Bindal. FINISHED: TESTS (CORRECTED):
From To	Description
0 18.6	0verburden
18.60 18.8	Granite. Pink colour. Some epidote and chlorite on fractures.
18.80 21.5	
21.55 22.4	
22.45 22.8	ture. Texture rich in epidote, chlorite and py, but also Aspy is o served.
22.80 26.2	concentrated to 43° direction. Good Aspy mineralization on breccia
26.25 26.9	Greenschist. Rich in biotite but not showing any planar structure.
26.90 31.1	Granite. As previous section. Red in colour, brecciated and cut by quartz veining. Good Aspv mineralization and visible Av at ab 2
31.10 32.0	Quartz. Pure quartz showing deformation structures, but no mineral zation.
32.05 33.7	Granite. Red altered, brecciated and cut by quartz veining. Good Aspy mineralization and visible Au at 32.80.
33.70 33.8	Quartz. Deformation textures but no mineralization.
33.85 36.96	Granite. 33.85 - ab. 35.80: Brecciated red granite cut by quartz veining. Good Aspy mineralization on texture. From 33.85 till 33.95 scattered and mineralization in sheared greenschist and granite. ab. 35.80 - 36.90: Red granite. Good Aspy mineralization, specially on fractures.
36.90 37.10	Quartz. Visible Au at upper contact.
37.10 49.70	Granite. 37.10 - ab. 38.40: Red altered granite, rich in quarts veining. Good Aspy mineralization. ab. 38.40 - 41.69: Decreasing red colour and quartz veining compare with previous sections.
	Some scattered Aspy minerals associated with fractures. 41.69 - 41.72: Quartz vein. Direction 43° and rich in Aspy. 41.72 - 49.70: Pink granite. Varying quartz veining. Only scatter Aspy mineralization, but widespread zeolitization.
49.70 50.12	Quartz. Scattered Aspy mineralization, specially near lower contact
50.12 70.60	Granite. 50.12 - 62.70: Pink granite. Some carbonate veining and zeolitizat
	on fractures. 62.70 - 63.80: Fractures and brecciated purple granite, Much carbo nate and zeolite minerals on fractures and brecciated

LOCATION: 32 mS - 22 mE	BEARING: 215° DIP: 44° HOLE NO: 15/81 SHEET NO: 2.
LOGGED BY: Ø.M.	STARTED: PROPERTY Kolsvik, Bindal.
CASING:	FINISHED:
	TESTS (CORRECTED):

From	То		Description
1975 115			63.80 - 70.60: Pink granite. Only traces of disseminated Aspy mineralization.
70.60	71.60		Gneiss showing biotite foliation. Contains some py.
71.60	72.90		Granite. Purple colour and fracture fillings are mostly carbonate and zeolite minerals but also some quartz.
72.90	75.80	*************	Foliated gneiss (foliation 70°). Granite veining is cutting and this is cut by later quartz veins.
75.80	86.80		Granite. Mostly pink coloured but also more grey variants.
86.80	93.45		Fine grained, biotite rich gneiss. Foliation (76%) is cut by some granite veining.
	350 Ex (6)	93.45	End of hole.

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LOGGED I	BY:	n S - 22 J.M.	STARTED:	215° DIP:	PROPERTY	Kolsvik, Bind	
	Ī	1 1					
From	To 19.30		Overburden	Des	cription		
19.30			Gneiss _	Mostly massi	ve, but weak	foliation (73°)	near
22.60	65.30		lower contact. Granite.	Some py.			
	03.30		22.60 - 25.00:	Pink granite w rich parts. S some dissemina	ome Aspy on b	exture in more reccia texture	
			25.00 - 30.00:	Grey granite,	rather massiv are cutting w	e but some frac ith ab 70° angl ctures.	
			30.00 - 36.00:	Brecciated gra From 31.70 - 3	nite. Quartz 1.8 <mark>0 c</mark> rosscut	and Aspy on th ting quartz vei zeolitization.	in From
	*************		36.00 - 40.00:	Massive granit	e. Red alter	ation first 1 m uring nearly ve	. Only
			40.00 - 45.00:	Massive granit zation on quar	e. From 40.2 tz vein. Som	2 till 40.30 As e Aspy on fract ing and chlorit	spy minera cures firs
	***************************************		45.00 - 50.00	neralization b	ut s ome quart	s a pink colour z veining. Som	
	***************************************		50.00 - 65.30		granite, mos ralization on	tly with pink o quartz veins a	
65.30	70.30		Foliated gneis	s Foliation 70			
			66 60 - 69 90	Granite. Grey	and massive.		
	***************************************			*			
70.30	71.10		Mica schist sh	owing biotite fo	oliation.		
71.10	PL		Granite. Rich near lower cont	in biotite givi	ng a dark col	our. Weak bred	ciation
85.50	89.95			s. Foliation 75	5°		
		89.95	End of hole.				

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SING				PROPERTY Kolsvik, Bindal.
		nm		
From	То			escription
0	12.70		Overburden	Sal profit
	20.00			**************************************
15.11	20.00			fragments of granite and dioritic tic fragments. Occasionally weak es.
2 0.0 0	24.60	******	Gneiss. Foliation_65° -80°. sheared, specially between 2	Occasionally well 1.50 and 22.00 and near lower contac
24.60	26.45	111-	Granite	
************	******			, containing Aspy on 90° fractures. ng weak brecciation and disseminated A
26.45	26.55	C	Mica schist. Foliation 55°	, some Aspy, specially along contacts
26.55	27.05		Granite, rather massive.	
27.05	27.40	//	Mica schist. Foliation 80°.	
27.40	30.50		Granite.	
			and fracturin	z content, and occasionally brecciatiog. Aspy on some fractures. re with scattered Aspy mineralization.
30.5 0				ic gneiss. Foliation 50°. At 31.60 c
31.80	71.50		quartz veini	granite. First 1 m, much brecciation and ng. Aspy on breccia texture and quart ower part Aspy on fractures.
	******		34.30 - 40.50 Massive grey	granite.
				ink granite. Good Aspy mineralization neentrated to 50° fractures.
	**************	***************************************	42.20 - 43.70: Massive grey	granite.
		************	granite cut	iated quartz rich granite, occasionall by quartz veining (dominating directio
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	80°). Both Aspy mineral	breccia texture and veining contain go
		***************************************	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	ve grey granite Aspy mineralization on
				crosscutting quartz veins (at 53.15 -
**********	********		53. 25, 59.75 68. 2 5 - 68.2	- 59.77, 59.90 - 59.91, 63.40 - 63.41
71. 50	72.35	*****		gneiss, foliation 70°. Cut by
72.35	77.60		Telliferation and the control of the	ccasionally zeolitization and epidote
77.60	78.00		Foliated biotite rich gneiss	
111 1 11111	••••••		TV WO	•
78.00	-80.60	ē	Massive grey granite.	

LOGGED BY: Ø.M.	BEARING: 048° DIP: 66° HOLE NO 19/81 SHEET NO 1
CASING:	FINISHED
CORE SIZE 32 mm	

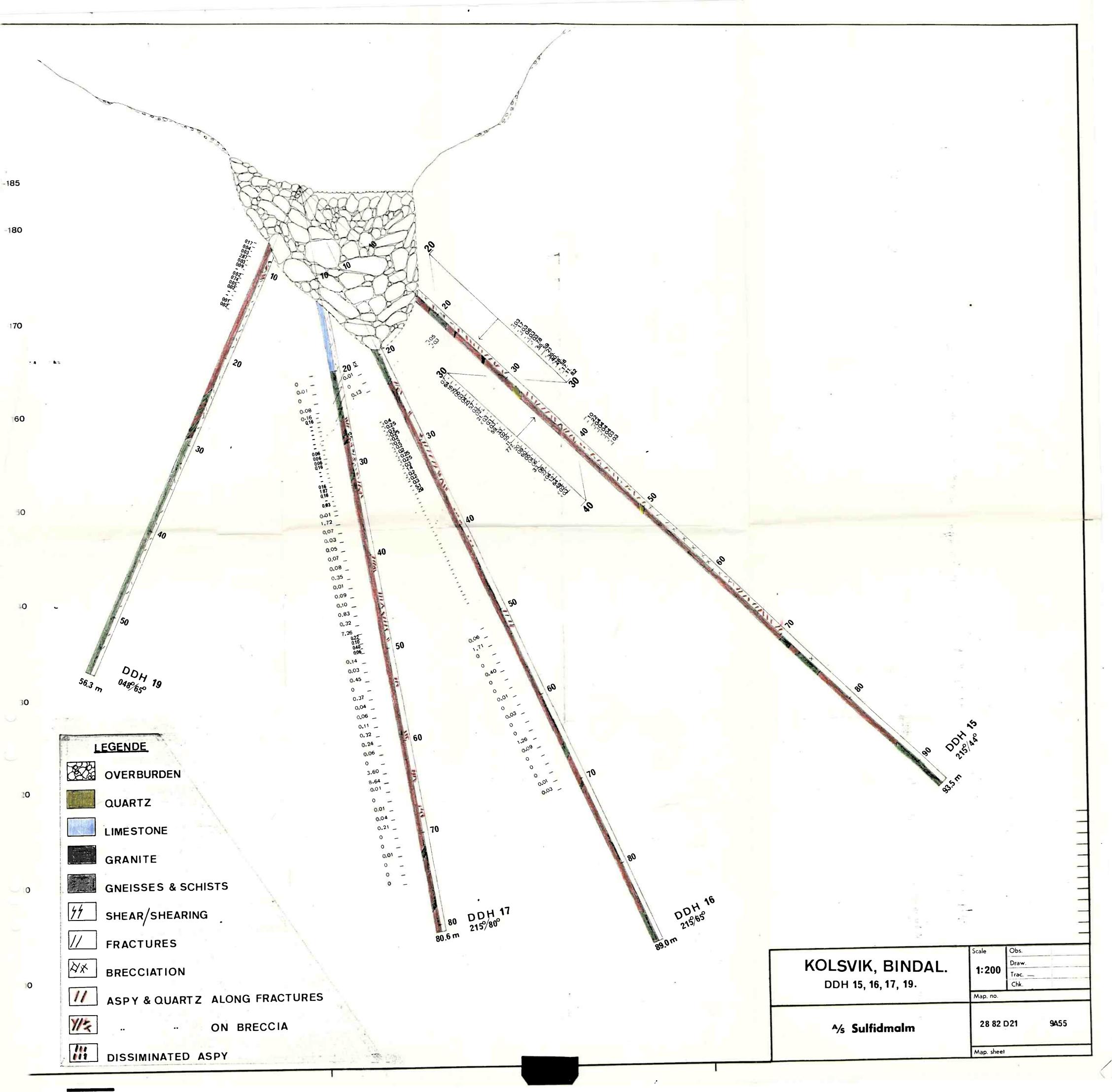
From	To		N Deconomic
0	7.50		Description Overburden
7.50			
	7	·	Granite. Varying between yellow and pink colours, due to alteration of feldspars. Plenty of carbonate veining and fractures filled with carbonate and recline minerals.
	1 5.000	***	
	H H	2.11.54.	5 meters, Occasionally totally fractured; especially in fellowing intervals: 8.30-9.10, 9.90 - 10.00, 10.50 - 10.90, 12.20 - 13.00, 13.45 - 15.40
	-	= = -	13.45 - 15.40
2 25	24.45	P = 1	Mica schist. Foliation 20°. The sequence contains plenty of car-
			CONTRACT DECIMAL DEDIMARDITED IN PROBABILITY OF THE
			parallel foliation but some have 70° direction. Some skarn sine- ralization, particularly near upper contact.
2 15	124.90	in second	Granite. As previous section cut by carbonate veining.
24 90	25.20	1	Mica schist. Foliation 40°.
25.20	25.70		Granite. As previous sections cut by carbonate veining. Great
			variation in directions of fractures (20", 40", 70" and 90").
26.70	27.00		Mica schist, foliation 50°. Highly sheared, Some only to
27.00	70.00		out races.
	29.00		Granite, pink in colour. Plenty of carbonate and zeolite filled fractures.
29 00-	55.30		Mica schist, extremely rich in carbonate. Crosscutting granite vei-
			o - minus undil mineralization none man
		1113-111	occasionally zones of high shearing (Following (5)
			40.50-40.80, 41.50-41.80, 42.40-42.70, 44.15-45.70, 52.30-52.50).
	Statement of the statem	56.30	End of hole.
×	*11.18*1111*1111		

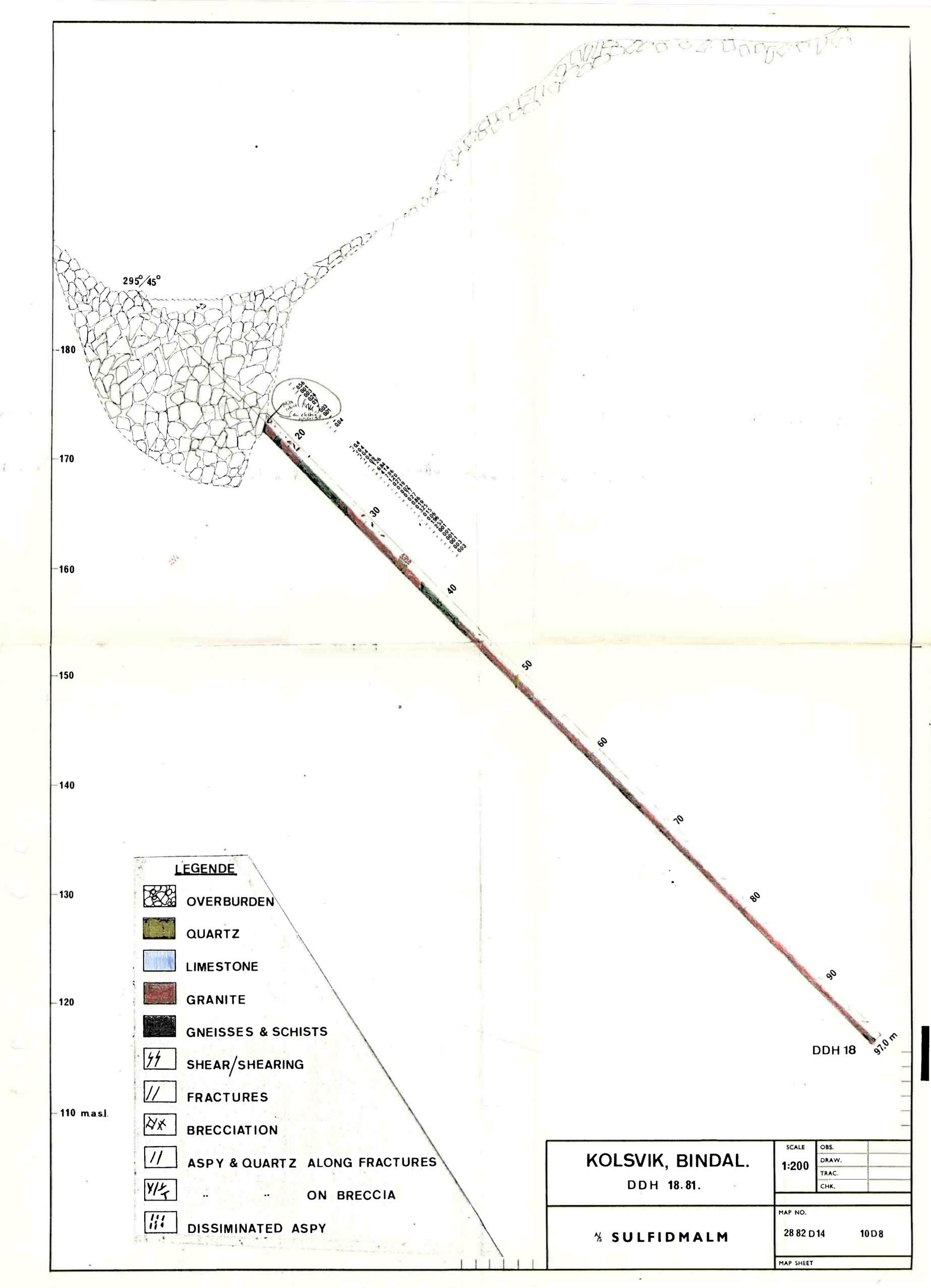
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OGGED BY: Ø.M CASING: 32 mm CORE SIZE:			FINISHED:				
				From	То		Description
				0	16.60		Overburden
1 6.60	16.85		Mica schist. Mica carbonate veining, parallel foliation (25°). These are cutby 1 cm thick Aspy vein parallel core.				
16.85	18.75		Granite, cut by carbonate veining.				
18. 7 5	19.10		Mica schist rich in carbonate. Foliation 60°. 1.5 cm thick Aspy vein at lower contact.				
	21.70	A	Granite. Mostly light coloured but occasionally pink. Scattered Aspy mineralization on some fractures.				
21.70	26.70	***********	Mica schist. Foliation 50°-70° Plenty of carbonate material both as horizons in gneiss and cross cutting veins. Most fractures parallel foliation.				
26.70	27.10	***************************************	Granite.				
27.10	27.65		Mica schist. Foliation 65°.				
27.65	34.40		Granite.				
			27.65 - 31.40: Rather massive granite showing pink colour. Most fractures are filled with carbonate and zeolite min rals, but lower 1 m also traces of Aspy. 31.40 - 32.00: Brecciated granite. Mineralization mainly py but also some Aspy. 32.00 - 34.40: Massive granite.				
34.40	3500	Vicence in Control	Quartz. Disseminated Aspy can be seen.				
35.00	-35.60	************	Granite. Upper contact very diffusable.				
35:60	-35:70		Quartz.				
35 70	-37:40		Massive granite.				
37.40	42.20		Mica schist. Foliation 40°. Plenty of carbonate.				
Depart Francis	49.90		Granite, mostly light coloured. Some fracturing which are filled with carbonate and zeolite minerals.				
49.90	50,20		Quartz. Aspy can be seen on 40° fractures.				
50.20	-9 7. 00		Granite. Varying colour from light grey till pink. Some fracturing and zeolitization. No mineralization is seen.				
	••••••	97.00	End of hole.				
			41				
	217110-00-00111-0						

LOCATION:101 m.S 45 m.E.	BEARING: 087° DIP: 45° HOLE NO: 20/81 SHEET NO: 1
LOGGED BY: Ø.M.	STARTED:PROPERTYKolsvik, Bindal.
CASING:	FINISHED:
CORE SIZE: 32 mm	TESTS (CORRECTED):

From	То		Description
O	3.75		Overburden
3. 7 5	4.90	D - 14 C-53 10 C 1 C 1	Granite. Pink colour near upper contact.
4.90	5.00		Foliated mica schist showing shearing near contacts.
5.00	6.80		Granite. Rather massive, but some fractures with direction 30° and 6
6.80	7.30	www.come	Mica schist. Foliation 35°.
7.30			Granite. Near upper contact shearing and weak foliation. In this
	0.00		area some quartz veining and Aspy.
8.90			Mica schist. Weak foliation but highly sheared at lower contact.
9.70	28.30		Granite.
	************		9.70-11.00: Grey granite. Scattered Aspy on some fractures. 11.00-15.10: Some alteration, mostly as zeolite, muscovite, chloritepidote.
	***************************************		15.10-15.40: Sheared and brecciated quartz rich granite. Spots of Aspy.
			15.40-16.10: Rather massive with few fractures.
	. Steelie on Fried		16.10-16.40: Fractured and brecciated granite. Spots of Aspy.
	*************	*************	16.40-17.50: Massive granite.
		*****************	17.50-18.00: Pink coloured granite. Disseminated Aspy and as scattered grains on some fractures.
	************	tito communication	18.00-21.30: Quartz rich granite. Spots of Aspy. Lower 0.20 m fra
	***************************************	***********	tured. 21.30-24.00: Medium-grained, rather massive. Upper 0.2 m fracture
	************		24.00-26.00: Quartz rich granite with spots of Aspy.
			26.00-28.30: Occasionally green coloured due to epidote & chlorite
	Lating and the		some fractures.
28.30	33.20		Foliated dioritic gneiss. Foliation 0°-15°. Most fractures 40°-50°
	************		but some parallel core.
33.20	50.70	***************************************	Granite.
			33.20-38.00: Granite with scattered Aspy on some 45° fractures.
		tion detroiting	38.00-42.40: Massive, but traces of Aspy on fractures from 41.80.
			42.00-47.70: Well fractured quartz rich granite. No mineralization
		************	47.70-50.70: Good brecciation with Aspy. Late quartz veining cuts breccia texture.
+50-70	58.80	***************************************	Deformed and sheared dioritic rocks. From 55.40 till 56.30 extreme.
	20100		sheared. May represent a greater fault zone. Direction 10°.
E0 00	66 20	INIOE CANADA LA	Granite.
50.00	66.30		58.80-62.00: Brecciated granite.
	********		62.00-66.30: Rather massive. Scattered Aspy on some fractures.
			Direction 50°.
66.30	67.00		Fine grained, biotite rich dioritic gneiss. Foliation 55°.
67.00	.70.95		Granite. Rather massive, with few fractures (direction 60°-70°).
7.0.95	76.25.		Fine grained dioritic gneiss. Foliation 50°. Some crosscutting
			granitic veins.
	77.50		Granite
			22 1¥

GGED P	Y: α	.м.	STARTED. Rosers Kolevik Rindal
		. 174.	FAUCUES
		nm	
			TESTS (CORRECTED):
From	То		Description
77.50	82.25		Dioritic rocks without any planar structure.
82.25	89.80		Granite. Rather massive with some fractures. No mineralizaito

		8980.	End of hole.

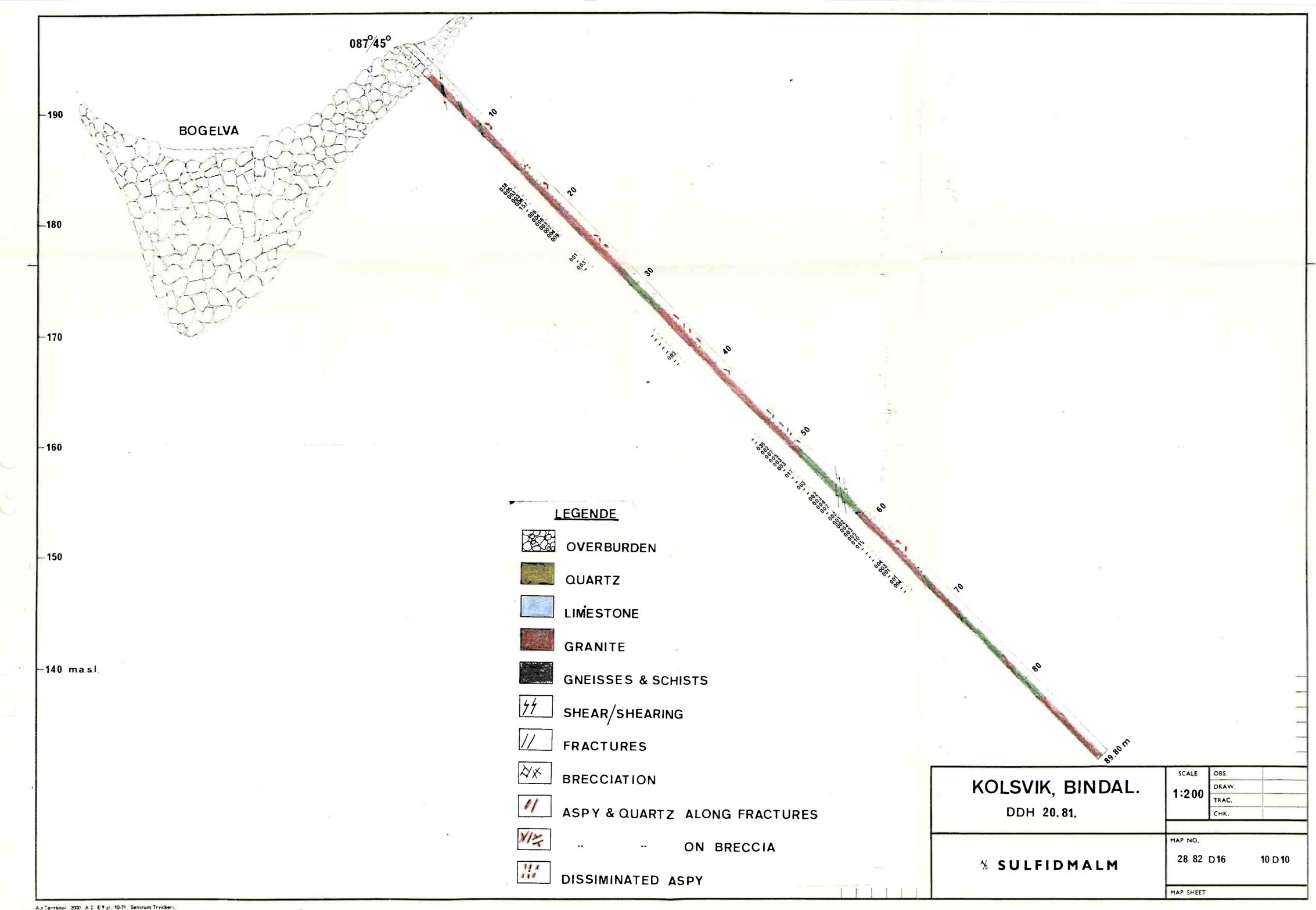
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CATION		BEARING: DIP: 90° HOLE NO: 21/82 SHEET NO: 1
	BY: ØM RS	
	2.0 m	FINISHED: 30.05.82
		TESTS (CORRECTED):
JIIL 0121		72010 (0011120120).
From	То	Description
0	2.00	OVERBURDEN
2.00	6.30	Medium grained DIORITE cut by granite veins
		At 2.3: 10 cm granite, contact angle 55°
		At 4.2: 5 cm granite, - " " - 55°
		At 4.5: 2 cm granite, - " " - 55°
		At 5.1: 10 cm granite, - " " - 45°
6.30	7.20	Medium grained GRANITE
7.20	7.70	Medium grained DIORITE
		Confact angle at 7.7 = 45°
	1F FC	Walter and the Critical College
7.70	15.50	Medium grained white GRANITE. Chlorite and zeolites deve-
		loped along fractures and joints. Chlorite strongly developed especially between 10 and 11 m.
		At 15 m: Biotite foliation 50°
************		At 15.50 m: Contact angle 50°
	10.05	
15.50	16.05	Fine grained DIORITE cut by some thin granitic veins Foliation 50°
		At 16.05: contact angle 50°
*********		. Rt 10.03. Contact angle 30
	70.40	.ii
16.05	79.40	GRANITE 16.05 - 16 50: Medium grained biotite rich granite
		with no foliation.
		16.50 - 18.60: Muscovite developed on fractures: cor
		angle 20°
		18.60 - 67.35 Pink granite
		At 19.65 Aspy along joint. Core angle 85°
		20.00 - 24.00 Very broken granite. Mica develo
************	***********	
		joints 45° & 70° core angle. 27.00 - 27.50 Aspy related to quartz
	NO Secretary 2	29 70 Quantz segregations
		At 30.10 Aspy and py on 55° fracture.
	************	31.90 - 32.00 Quartz veins
		The state of the s
andersamm		At 34.50 Quartz veins. Core angle 60°
		At 35.10 Quartz veins, mainly on 45° fract
	P	5
		At 41.60 Quartz segregations
		At 54.70 2 cm massive Aspy containing some 65° core angle.
		a to the state of
		60.00 - 67.35 Chlorite, epidote and chlorite al

		ØM/RS	BEARING: DIP: 90° HOLE NO: 21/82 SHEET NO: 2
	DY:		30 05 82
CASING:		2.0 m	FINISHED:
CORE SIZ	Έ:		TESTS (CORRECTED):
From	То		Description
************	• ***********************************		
			67.35 - 67.95 Grey coloured granite
			67.95 - 79.00 Pink coloured granite 69.00-71.00 Breccia texture, but only chlorite and
	_		epidote on textures.
P 28 1			Dominating fractures 40°-45°. At 70.89
11100			2 cm quartz vein, 40° core angle.
			78.20-79.00 Brecciation
79.00	79.40		Highly sheared DIORITIC rocks. Contacts 60°.
	82.15		
_7.9.a.9.U.		REFERENCE SOLD	GRANITE 79.40 - 80.00 Brecciated quartz rich granite
			80.00 - 82.15 Pink granite
	05 E0		DEGREER OF STATE OF S
02.13	85.50		DIORITE Some granite are cutting. Folitation (banding) 45°. At 85.50 contact 50°
05.50	- 20 0		
85.50	94.10	***************************************	Pink GRANITE with epidote and chlorite veining, especially
		**********	between 85.50-90.00.
94.10	104.45		DIORITE
	************		At 94.10 contact angle 50° At 96.40 foliation 40°
11120 1200			At 102.50 foliation 60°
104.45	109.00	*****************	Red altered GRANITE
	*************		At 104.45 contact 60°
			Dominating fractures 65° and 20° + subparallel. Some epidote and chlorite mineralization.
		************	At 109.00 contact 75°
109.00	100 70		D.T.AD.T.M.D.
109.00	109.70	100 100 10 E	DIORITE At 109.50 foliation 50°
		**********	At 109.70 contact 60°
109.70	112.00		ODANIAMO DE LA CASTA DEL CASTA DE LA CASTA DE LA CASTA DEL CASTA DE LA CASTA D
203.70	112.00		GRANITE Dominantly red altered At 112.00 Contact 45°
711111111111111111111111111111111111111			ne 112.00 contact 45
112.00	113 .90	*************	DIORITE Foliation 65°. Dominating fractures 60°, some 30°.
113.90	.120.65		GRANITE Pink colour. Plenty of zeolites along 20° fractures/
	450	20.000-1100-2-10	joints.
			115.30 - 115.80 well fractured.
			120.65 contact 65°
20.65	121.00		Well fractured DIORITE
21 00	100 4		
21.00	130.40		Red altered GRANITE. Zeolites and epidote on subparallel frac-
			tures and joints. Dominating fractures and joints 30° and 50°, 5 cm quartz near lower contact.
			At 130.40 contact 80°

At 130.40 contact 80°.

LOCATION: LOGGED BY: ØM RS CASING: 2.0 m CORE SIZE: 32 mm			STARTED: 25.05.82 PROPERTY FINISHED: 30.05.82 Kolsvik, Bindal
			TESTS (CORRECTED):
From	То		Description
***************************************	136.00		Highly sheared DIORITIC rocks, nearly mica schist. 134.15 - 134.50 shear zone At 132.50 foliation 45°
	142.40		Grey GRANITE. Quartz rich and showing breccia texture. Brecciated DIORITE filled with quartz, epidote and chlorite 139.00 - 140.00 highly sheared (shear zone) 141.30 - 142.40 - " " " -
142.40			Brecciated and well fractured pink GRANITE. Dominating fractures 45°.
144.40	15 6.85		DIORITE cut by granitic veins At 148.50 foliation 75° At 152.00 foliation 75°
	E 33	156.85	. End of hole
•	25122	*****	
M. Marin professor			

			DIAMOND	DRILL RECORD		
LOCATION	G		BEARING:	DIP: 60° HOLE NO: 23/82 SHEET NO:		
		ØM RSi				
CASING:				.82		
CORE SIZ	E:	911200		D):		
Fvalu		1				
From	То			Description		
0	10.0		Overburden			
				140		
			Fine grained diori			
		***************************************	10.30 - 10.70	Quartz and Aspy. At 10.30 core angle 50° At 10.70: core angle 40°.		
***************************************		************	14.70 - 14.80	Fracture with quartz		
14.00	32.70		Granite			
			14.00 - 29.30	With granite. Chlorite developed, especially along fractures.		
			16.40-16.90	Fragments of diorite		
			20.90-23.40	Quartz veining. Core angle 80°		
	concer s			Scattered Aspy crystals		
				Pink granite		
	11227 / 12227		04.3: SETUR			
32.70	34.60		Diorite			
34.60	35 40		Pink granite			
35.40	36 60		Diorite	a ux		
	***********		At 35.40: conf	tact 20°		
			At 36.60: cont	tact 20°		
36.60	83.50		<u>Granite</u>			
	*********		36.60 - 76.00	Pink granite		
			39.00-40.00	Some quartz and Aspy mineralization		
			40.00-40.20	Quartzvein with 1 cm Aspy. Core angle 50°		
			At 42.50	Quartz/Aspy vein. Core angle 80°.		
			47.00-47.20	Fracture zone. Quartz segregations occur frequently.		
			49.70-49.80	Quartz vein with Aspy. Core angle 50°.		
			49.00-51.10	Broken pink granite with quartz matrix		
				and Aspy specks.		
		-14 LS	At 52.50	Aspy vein. Core angle 80°		
			52.00-53.00	Specks of Aspy		
			54.00-55.00	Pink mineralization on 80° joints		
			At 58.45	3 cm thick vein of Aspy, py and quartz. Core angle 45°.		
<u></u>			62.00-63.00	Quartz veining and quartzsegregations		
in wine			At 65.90	Aspy with 40° core angle ut by later		

fractures.

			5.6.82 Kolsvik, Bindal
ORE SIZE	·	TESTS (CORRE	CCTED):
From	То		Description
		At 66.00	Aspy specks
		At 66.70	Arpy vein with 40° core angle
		At 67.28	Strongly mylotinized quartz. Core angle 80°
		67.00-68.00	Foliation in granite 80°
		73.00-74.00	Aspy specks
		74.55-74.75	Strongly deformed and mylotinized quartz vein with some Aspy.
		75.00-76.00	% cm Aspy veins at 75.10 and 75.25
		76.00 - 81.00	Grey granite
		At 76.10	Spots of Aspy
		78.00-79.00	Late fractures, 35°-40° crosscut Aspy spots. Well mineralized.
		79.40-79.60	Good quartz and Aspy mineralization
		At 79.90	Quartz vein. Core angle 40°
		81.00 - 83.50	Pink granite
		81.80-82.20	Quartz and Arry on vein with 0° core angle. This is cut by later unmineralized fractures.
8350.	8400		eolites on 20° fractures
84.00	93.40	Brecciated pink	and grey granite. Also brecciated quartz rich
		********	crix of Aspy and quartz. Extremely good Aspy mi-
	******	neralization.	
93.40	94.80		Y
94.80	122.90	Granite	
			110 Mainly grey granite with chlorite, biotite and epidote mineralization on breccia textur
		96.40 - 98	.00 Aspy on breccia texture
· · · · · · · · · · · · · · · · · · ·		98.00 - 10	2.75 Scattered Aspy mineralization
		102.75 - 10	3.75 Massive Aspy mineralization on breccia texture.
		105.00 - 11	0.00 Scattered Aspy in granite and on fractures
		Ab 110. – 1	S SAN U TO SAN WEST ANNUARY WAS

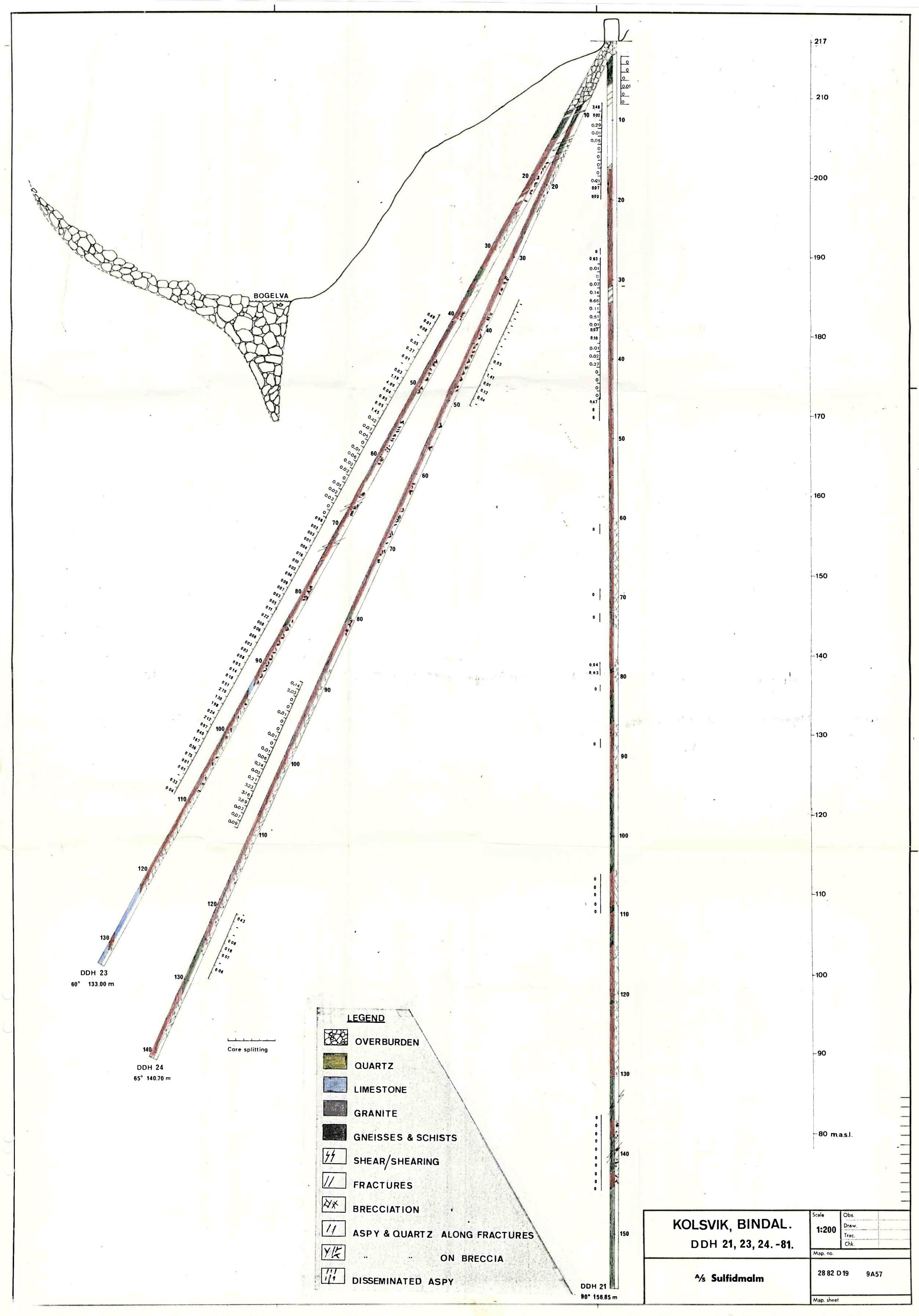
			BEARING: DIP: 60° HOLE NO: 23/82 SHEET NO: 3			
OGGED B	Y: Ø	1 RSi				
CASING:						
From To			Description			
			116.00 - 122.90 Red-altered well fractured granite. Frac-			
	***************************************		tures filled with micas. From 122 carbonat			
90		8 8	veining.			
122.90	128.80		Limestone Highly deformed (breccia texture) limestone or			
			carbonate rich sediments.			
			carbonate rich sediments.			
128.80	130.95		Granite Highly deformed red altered granite, rich in zeo-			
			lites and carbonate rich veining.			
130.95	133.0	20 000	Limestone Highly deformed (breccia texture) limestone or			
		9.61	- 13-50 M WASHINGTON TO THE STATE OF THE PARTY OF THE PAR			
			carbonate rich sediments.			
	100.00		7001 0 100			
	133.00		End of hole			
			×			
<u> </u>	***********					
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		10 50 D				
			3 30			
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The transmitted						
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			EAST DIP: 65° HOLE NO: 24 SHEET NO: 1		
		100	111111111111111111111111111111111111111		
ORE SIZ		TESTS (CO	RRECTED);		
From	То		Description		
0	10.0	8.50 - 9.35 9.35 - 10.0	Overburden Diorite, rich in pyrite, no foliation. Aspy near lower contact, especially on 55° fracture. Granite. Biotite rich. Grey colour at 9.80 - 9.82. Quartz vein (60°)		
10.0	20.0	10.0 - 13.90	Granite, contact at 13.90 = 45° 10.0 - 10.55 Granite rich in biotite, musk at fractures. 10.55 - 13.15 White. quartz rich granite. Some grains of ASPY and other sulphides are seen between 11.20 and 11.50 in brecciated quartz.		
		13.90 - 16.20	13.15 - 13.90 Grey granite showing a weak foliation, 50° Diorite, contact at 16.20 = 30° Granite veining is cutting with 20-30° angles.		
		16.20 - 20.00			
20.0	30.0	20.00 - 30.00	Granite. 20.00 - 24.60 Milky granite like 16.20 - 20.00 area. Lower contact 50°. 24.60 - 25.80 Grey colour. Rather massive and biotite rich. Some alteration along fractures. 25.80 - 30.00 Mostly pink colour. At 25.60: ½ cm Aspy along 40° fracture. At 28.10 Aspy disseminated and at 50° fractured. 28.50 - 29.00 Some Aspy and quartz at 50° At 29.50 - 29.52 Quartz < 40°		
30.0	40.0	30.00 - 40.00	Granite 30.00 - 32.20 Grey, massive and medium grained granite. 32.20 - 35.20 Pink granite 32.32 - 32.40 Quartz with some Aspy. Contacts 50°. 32.70 1 cm quartz and Aspy. 33.40 - 33.42 Quartz. Contacts 65°. Only little Aspy near contacts. 34.05 ½ cm quartz with Aspy. ∠ 65° 34.60 Aspy along 65° fracture. Strong alteration 35.20 - 39.50 Grey coloured granite 35.25 Aspy along contacts of 1 cm 60° quartz vein 36.25 Biotite foliation 50° 37.30 2 cm 70° quartz		

ASING:	SY:ØM	FINISHED:	5.6.82 PROPERTY Kolsvik 9.6.82 RECTED):
From	То		Description
		37.50 38.50 -	Quartz and Aspy along 60° fracture 38.53 Quartz and Aspy (½ cm) with 60° direction Aspy along 80° fracture
	50.00		Granite, changing from grey, massive and medium grained to pink altered. Occasionally rich in quart 43.50 Some Aspy crystals 44.90 2 cm Quartz, ∠50°. Some musk along contacts 45.10 Aspy along 80° quartz vein 45.30 - 45.80 Good quartz content and bands of Aspy, most of them 60°-70°. Visible
x NB!	Au.		(one samll grain) gold ab. 45.50
50.00	60.00	50.00 - 60.00	Mostly red-altered granite 50.40 - 50.50 Some 1 cm quartz veins 60° 55.35 Aspy along 60° fracture. 55.94 1 cm Aspy 60°. 56.30-56.40 Good pyr. mineralization along fractures in granite. Only 1 ttle Aspy.
	70.00		Granite, grey and pink altered medium grained and biotite rich. 60.50 1 cm quartz 4 60° 63.70 Musk,and pyr. along 55° fracture. Only some Aspy grains are seen. 63.30 2 cm quartz and good Aspy mineralization also pyr. is seen. Ab. 64.40 clots of Aspy and mica. 66.30 Aspy on 450° fracture. 69.30 1 cm Aspy. Direction 450°
70.00	80.00		Granite, pink altered, medium grained with some biotite. 71.30 ½ cm Aspy along ∠75° fracture. 72.90 Aspy along 60° fracture 74.30 1 cm quartz-vein (∠70°) Only traces of Aspy along fracture contacts. 76.0-80.0 Plenty of quartz veining. Direction about 60° thickness about ½ cm but little or no Aspy mineralization.
	F2-20	79.30 - 80.0	Diorite. Upper contact diffus.
80.0	90.0	81.00 - 90.0	Diorite. Lower contact ab. 20°. Granite 81.00 - ab 87.0 Pink altered granite 71.30 Some quartz veining (∠55°) 87.0 - 90.0 Grey colour.

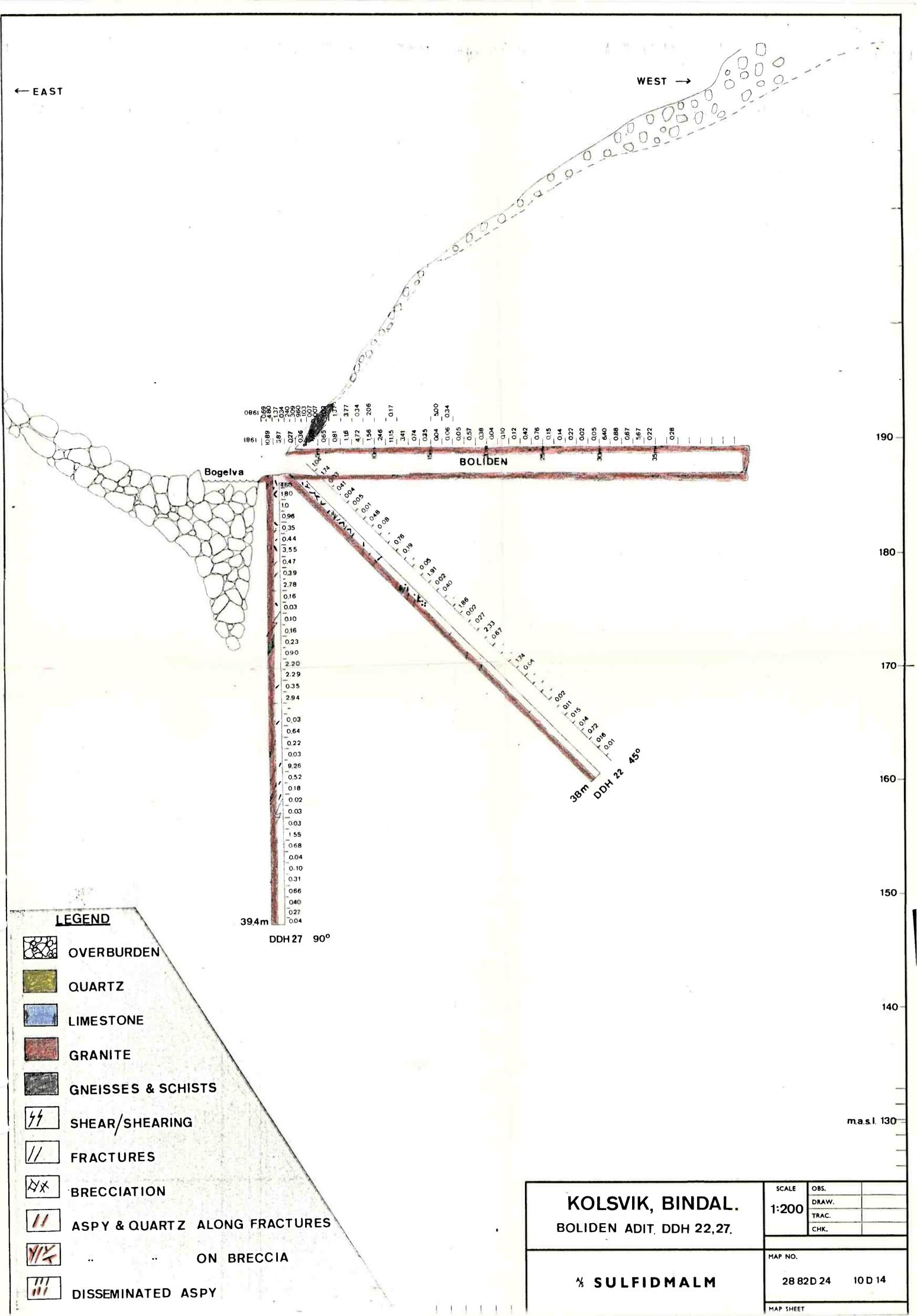
	BY: ØM	50.7-27 A) (1150.00 - 2150.				
	Œ:		TED):			
From	То		Description			
		80.0 - 81.0	Diorite. lower contact ab. 20°.			
		81.0 - 90.0	Granite 81.0 - ab 87.0 Pink altered granite 71.30 Some quartz veining (∠ 55°) 87.0 - 90.0 Grey colour.			
90.0	100.0		Granite 90.0-96.0 Grey granite, Occasionally quartz- rich. Plenty of chlorite-epidate filled fractures. These are (seem) to be) cutting quartz veins which contain Sdpy (at 90.75-91.0). Also seen muskovite rich granite. 96.0-100.0 Pink granite. Well fractured. but			
			only filled with chlorite & epidote. 99.3-100.0 Highly altered and crushed granite with zeolites and carbonate.			
	110.0		Granite Highly deformed and altered granite, showing a breccia texture filled with chlorite & epidote, zeolites and carbonate, occasionally is seen some Aspy minerals, but this is rare.			
	120.0		Granite Deformed and altered as described from 110-120 but less zeolite mineralization 119.9 Asry on quartz vein.			
120.0	130.0	120.0 - 125.45	Granite. Mostly grey but occasionally pink- altered. Little biotite. 120.40 Quartz and pyr. & Aspy along 40 fracture in highly red-altered gr. 120.80 1½ cm quartz vein (455°) with pyr. & Aspy. 122.20 Quartz & Aspy along 20° fracture. Cut by later fractures filled with micas giving core a "breccia texture". 123.0-125.45 Aspy along various fracture direc- tions and always cut by later mica filled fractures giving a breccia texture			
		122.45 - 130.0	Augen gneiss, rich in mica c:biotite and chlorite Highly deformed and crosscut by granite.			
130.0	140.0	130.0 - 132.1	Highly deformed augen gneiss like that described from 125.45 - 130.00 Lower contact at 132.1 35°			
			Granite. Red altered and rich in zeolite and carbonate along fractures. Rather highly deformed breccia texture. No visible Aspy mineral.			
140.0	150.0		Granite. Like 132.1 - 140. End of hole.			



A A A E A					45° HOLE				
		R.Si							
		0				Bol	iden, Ko	lsvik	
CORE SIZE	:	32 m	TESTS (CORRECTE	D):		В1Г	idal		ă
From	То			De	escription	,., .			
0	38.0		Fine to medium g	grained gra	anite. The	colour	varv fro		
	***************************************		pink to grey-whi						
		***************************************	Minor quartz vei	ns and qua	artz segrega	tions a	are frequ	ently	
***************************************			occurring both i	n the pin	k and grey gi	ranite.			
	********	CH* NEXT ME CHARACTE CARROL	Late fractures w	vith zeoli	te minerals a	are com	mon arou	ind	
***************************************		***************************************	20 - 25 m, often	parallel ·	to subparalle	l core	e-string.		
			Quartzveins ‡ As	ру					
			7.5 - 7.6 m	G. 1	core angle	90°			
			8.3 m	2 cm		60°			
			11,6		80	- 90°			
			13.3	2 cm		60°			
			14.3	5 c m		70°			
	***************************************	11355-2 33668	15.1	4 cm		45°	Aspy		
			21.8	2 cm		409			
	8 5		23.5	1 cm		55	Aspy		
			At 14 m diorite	40 cm				• 0	
mino manera	38.0		red of tell						
	10000		End of hole.						
amenreen :									
		*********				5.			
		100000000000000000000000000000000000000							

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All Control									

			DIAMOND DRILL RECORD
LOCATIO	N:		BEARING: DIP: 90° HOLE NO: 27 SHEET NO: 1
LOGGED	BY:	ØM	STARTED HOLE NO. 27 SHEET NO. 1
CASING:			PROPERIV
CORE SIZE:			
			TESTS (CORRECTED):
From	To		Description
0	13.65		GRANITE
			0.00 - 10.0 Highly sheared granite with plenty of quartz- and Aspy veining + dots of Aspy. From ab 4.50 decreasing
		1111444444	
***		111111111111111111111111111111111111111	At 0.05 m: ½ cm Aspy. Core angle 80°
	MILES TO SE		At 0.50 m: 5 cm quartz with Aspy. 0.80 - 0.90 m: Nearly massive Aspy in quartz
			1.0 - 4.50 m: Plenty of Aspy veining on 70°-80° fractures
			and Joines.
			Aspy frequently associated with other sulphides. From 3.
			to 3.10 massive Aspy (core angle 85°). At 3.55 traces of visible gold.
	**********		4.0-10.0: Grey, quartzrich granite with dots of Aspy and
	***************************************		torns at Steep angles.
		-	10.00 - 13.65: ONly traces of Aspy as scattered dots. Highly
	***************************************		fractured from ab. 12.30 m, in this zone also some red alterat: At 13.75: contact 60°.
	14.40		
13.03	14.40	************	DIORITE
		**********	Fine grained, highly foliated and sheared dioritic rocks con-
			taining some pyrite. Foliation ab. 60° At 14.40: contact highly sheared.
14.40	.39.40		GRANITE
	************		14.40 - 20.00: Rather massive, fine grained and grey granite
			Only scattered aggregates of Aspy minerals, many of them on
			Control of the contro
			20.00 - 39.40: Granite varying between grey and pink altered Rather massive and fine grained. Usually no or little Aspy mi
		**********	and occupationally boom.
	************	*******	At 21.65: Visible Au
	************		At 23.30: 3 cm Quartz with Aspy. Core angle 25° At 25.75: 3 cm quartz with Aspy. Core angle 25°. Visibl
			Jein quartz. Core angle 300
	*************		27.65 - 28.0: Quartz with some punits
			29.00 -30.0: Zeolitization and red-alteration in highly sheared rocks.
J			32.00: 1 cm massive Aspy. Core angle 45°.
	39.40		END OF HOLE
		V.S. MARIEN	
	1100	*********	
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		VIII LAND	22
			7.65
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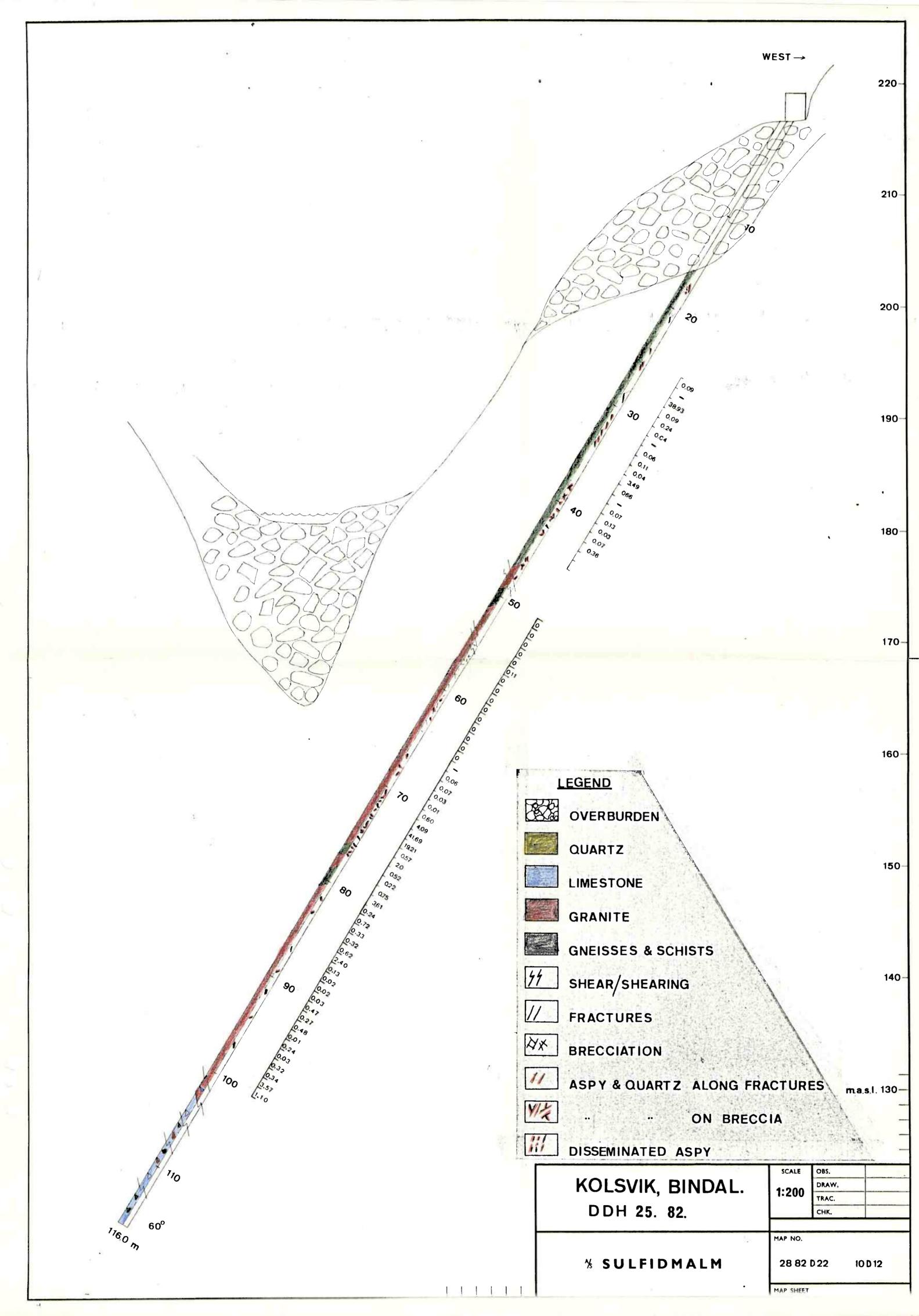


SING		R Si 16 m 32 mm	FINISHED 18.06.82 Kolsvik
From	To		Description
0	16.0		OVERBURDEN
16.0	47.3		Fine to medium grained diorite with some coarse meters, especiaround m 19-20.
			Quartz veins occur frequently. Some containing Aspy.
			Quartz veins recorded:
1		************	m 18.1 1 cm core angel 55°
			18.5 1 cm - " - 50°
			19.45 3 cm - " - 50° + Aspy
			19.9 2 cm — 50°
			21.7 10 cm - " - 20°
			25.7 2 cm - " - 56° Py + Aspy 27.4 7 cm - " - 85° + Aspy
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		os - Aspy
			CO + Rapy
Ï			o + napy
	*********		21 OF
			31.85 1 cm - " - 85° + Aspy 32.8 - 33.1 Containing Aspy and k.fsp.
		1.0000000000000000000000000000000000000	33.5 10 cm core angel 52°
	************	***********	34.1 5 cm - " - 55° + Py + Aspy
			39.4 - 39.85 - " - 55° + Aspy
	range and a second		46.7 2 cm - " - 70° + Aspy
	******		The diorite is often deformed, brecciated and sheared. Quart is most often the matrix material, Aspy occurs as small grain
			Granitic veins are often seen, in most cases parallel to sub- parallel to core string.
-	************	General Control of the Control of th	The quartzveins are in all cases crosscutting the granitic ve
- 100	***********		39.4 - 42.8 Fragmented diorite with quartz and Aspy as matrix
7.3	49.2		Fine grained GRANITE
	*****	*******	core angel contact upper 60°
			lower 25°
			Aspy and quartz at upper contact.
			47.5 - 47.7 Strongly sheared granite, pink colour.
			Some arsenopyrite.
2	51.3		Medium grained GRANITE.
.3	76.5		Fine to medium grained white granite, in places pink colourati which is related to late shearing (Bogdalen fault)
17	**********		
			Shearing and brecciation are developed
		-	54.6 - 54.7 shearing core angel 55°
			55 -58 breccia with chlorite matrix (fracture)
			60 -65 brecciated granite. Quartz occurs frequent as matrix, no Aspy seen.

OCCED.						
LOGGED BY: R Si CASING: 16 m CORE SIZE: 32 mm			STARTED: PROPERTY			
		************	FINISHED: Kolsvik			
		32 mm	TESTS (CORRECTED): Bindal			
Carren	17	V 6				
From	То		Description			
			66.1 - 76.5 Pink coloured granite with quartz veins Quartz veins 66.3 5 cm core angle 40° + Aspy 67.8 20 cm - " - 50° 68.6 10 cm 70 - 76.5 Brecciated granite in places with a quartz			
76.5	7 7.5		Aspy matrix Medium grained diorite which in places is brecciated			
77.5			Pink, medium grained brecciated GRANITE. Irregular quartz veins and matrix are common.			
78.9	80.7	1	Medium grained DIORITE			
80.7	100.0		Pink medium grained brecciated granite. Quartz as matrix. Aspy occurs.			
100.0	116.0	***************************************	The Bogdalen fault with strong deformation. Both fragments of granite, limestone and diorite.			
	116.0		End of hole.			

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NB ! Overburden = 7.70 m c: End of hole at 90.10 m

1/s SULFIDMALM

DIAMOND DRILL RECORD

LOCATION:	BEARING: 255 E DIP: 31° HOLE NO	0: 26 SHEET NO. 1
LOGGED BY: Ø M	STARTED 22.6.82 PROPERTY	Kolsvik
CASING:	FINISHED: 29.6.82	Bindal
CORE SIZE:	TESTS (CORRECTED):	

CASING:		***************************************	FINISHED: 29.6.82 Bindal		
CORE SIZ	E:				
From	To	× 10	Description		
0	8.70		Overburden		
8.70	12.60		CARBONATE RICH SEDIMENTS Skarn mineralization with development of garnet and diopside. Less garnet from ab. 10 m. Skarn contains py. minerals. At 12.60: Contact 60°.		
12.60	13.10		GRANITE Medium grained and grey coloured		
13.10	13. 95	**********	CARBONATE RICH SEDIMENTS		
13.95	15.40		GRANITE		
			Quartz rich and occasionally well-fractured. Only scattered Aspy mineralization. 14.30: Aspy on 20° fracture 14.90: Scattered Aspy 15.20: Scattered Aspy		
15.40	17.90		Foliated DIORITIC rocks, chich shows good foliation and containing some carbonate. Most fracture/joints parallel to foliation. 16.20: Foliation 55° 17.90: Contact 80°		
17.90	18.45		GRANITE		
			Medium grained grey granite with some red alteration along fracture/joints 18.45: Contact 80°		
18.45	22.30		Foliated DIORITIC rocks with some carbonate veining 19.70: Foliation 60° 22.30: Contact 90°		
22.30			GRANITE Medium grained and grey coloured. Some py but no Aspy 22.85: Py on 25° joint 23.80: Contact 65°		
2 3 .80	24.50		DIORITIC rocks with some skarn mineralization 24.50 Contact 65°		
24.50	40.0		GRANITE Mostly grey coloured and medium grained, but nearly free from biotite. Scattered py in some biotite aggregates. Planty of crosscutting carbonate veining along joints. Aslo red alteration along these joints. Granite contains fragments of diorite Directions of joints and/or carbonate veining are 50°-60°.		
			33.55 - 33.75 py-crystals 36.20: scattered Aspy mineralization		

36.20: scattered Aspy mineralization

	DIAMOND DRILL RECORD
a v	BEARING: 255 E DIP: 31° HOLE NO: 26 SHEET NO: 2 STARTED 22.6.82 PROPERTY
	FINISHED: 29.0.82 Kolsvík
Er	TESTS (CORRECTED): Bindal
То	Description
40.15	DIORITE
	The state of the s
40.30	GRANITE
The state of the s	40.30 contact 85°
40.60	DIORITE
42.70	GRANITE
	Medium grained and grey coloured. some zeolite mineralizat also along joints 42.70 contact 30°
	To 40.15 40.30 40.60

60.65 DIORITE

42.70

60.65

64.40

77.50

82.60

82.90

87.00

89.30 91.10

64.40

82.60

82.90

87.00

89.30

91.10

Mostly finegrained and showing a weak planar structure. The diorite is cut by granite veins, varying in thickness from 5 cm to 15 cm.

47.50: Foliation 75° 60.65: Contact 60°

GRANITE

Mostly grey, but also pink alteration 64.40 contact 45°

DIORITE

Fine grained diorite, cut by carbonate and epidote veining. Also cut by some granitic veins which are often redaltered. Some py is seen, especially near granitic veins.

GRANITE

Highly sheared quartz rich granite. Fractures filled with chlorite and epidote giving core a breccia texture. No mineralization is seen.

Highly sheared DIORITIC rocks. foliation/shearing 50°. Some crosscutting epidote veining

Highly sheared GRANITE with breccia texture. Dominating direction for epidote veining: 60°

Extremely sheared DIORITIC rocks, now nearly mica schist. Rock contain deformed quartz and granitic veins. Foliation/shearing 65°

89.30: contact 70°

GRANITE

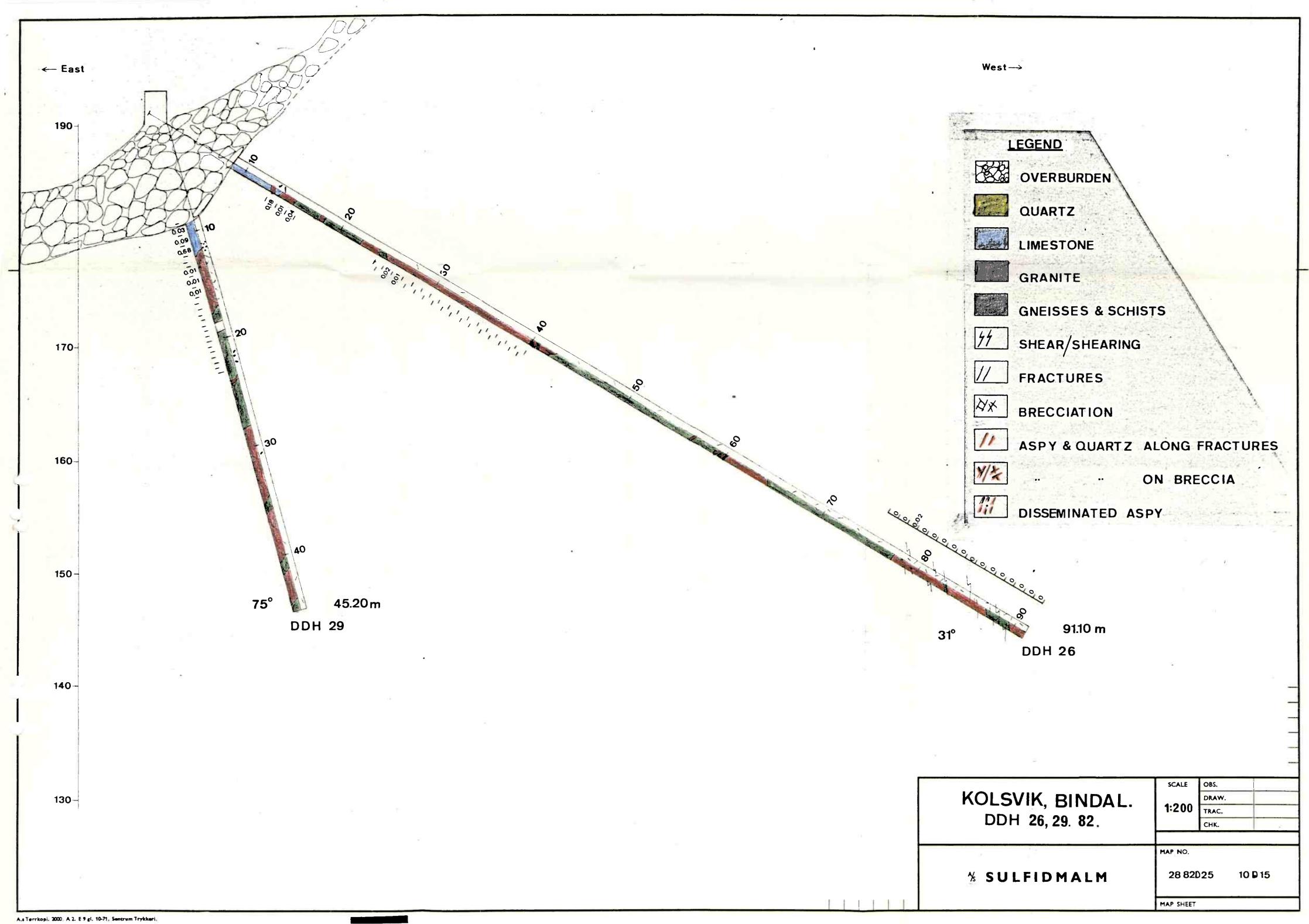
Only mica on fracture and joints

END OF HOLE

^A/s SULFIDMALM

OGGED E	: :Y: Ø.M.	STARTED: 29.6.82 PROPERTY FINISHED: 1.7.82 Kolsvik, Bindal.
From	То	Description
ဂ ၁	9.00	OVERBURDEN
9.00	11.60	CARBONATE RICH SEDIMENTS cut by carbonate veining. Garnet and epidote skarn is developed, diopside is dominating from ab. 10.00. The rock is py-rich, but also Aspy is seen. This is mainly associated with thin crosscutting quartz— and granitic veins, especially from 11.0 to 11.6, but also at 10.05. Aspy always seen mixed with py. Planar structure in sediments is 50°, and this is also dominating direction for crosscutting veins. 11.60 contact 55°
11.60	16.95	14.55, 15.55, 16.95)
16.95	23.40	Fine grained DIORITIC rocks. Usually well foliated. At 17.60 foliation 60° 18.30 - 19.10 Loss of core
		At 21.80 Foliation 35° At 22.00 Some Aspy associated with quartz. At 23.40 Contact 70°
23.40	23.70	Medium grained, grey and massive GRANITE At 23.70 Contact 70°
23.70	28.10	Fine grained DIORITE At 26.30 Foliation 40° At 28.10 Contact 85°
28.10	34.45	GRANITE Grey granite with little biotite. Some red alteration along joints/fractures. Some crosscutting quartz veins, but only muscovite along these. Aspy observed along one single joint at 32.65 (core angle 40 At 34.45 Contact 35°
0/44	35.30	Fine grained DIORITE. Foliation 70°. At 35.20 Aspy along a crosscutting granitic vein. At 35.30 Contact 60°
	40.0	GRANITE. Grey coloured and medium grained. From ab. 28.00 coarser and containing less mica (biotite). Some crosscutting carbonate veins.
	41.35	Foliated DIORITE. Direction 50°. At 41.35 Contact 50°

From	To		Description
41.35	42.90		Grey coloured GRANITE. Some carbonate-veining; zeolite miner lization near lower contact.
42.90	45.20		Fine grained DIORITE At 44.50: foliation 50°
		_45.20	End of hole.
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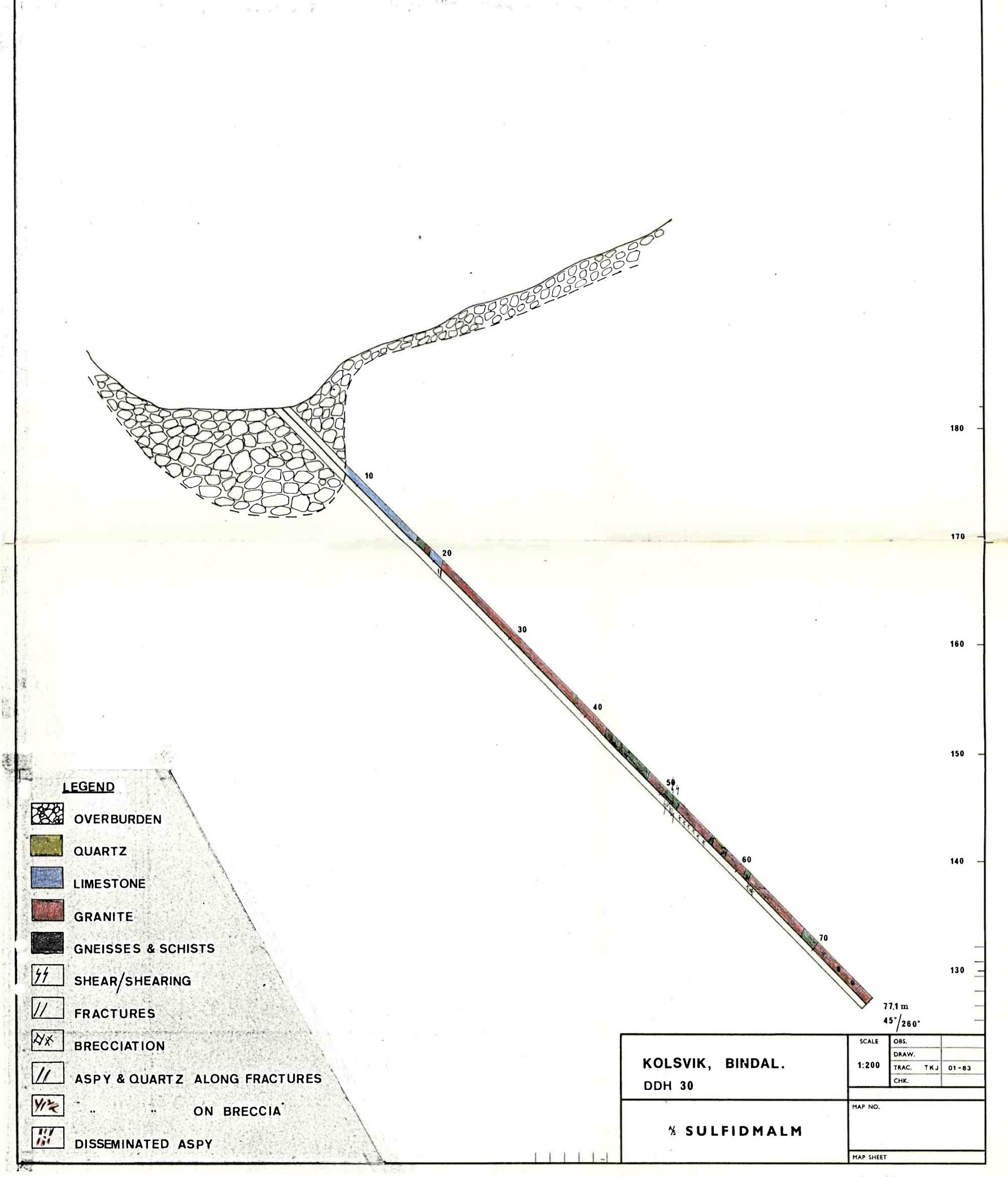
ASING:	11 /4 /4/ 4 / //		FINISHED:			
From	То		Description			
0	1.0		OVERBURDEN			
1.0	40.0		GRANITE Mainly pink granite, but some white and grey bands. Zeolite minerals developed along minor fractures.			
			1.0 - 4.0 Quartz veins with minor Aspy grains 10.0 - 11.0 Quartz segregations with some Py.			
	NI 1111 = 1111		14.0 - 17.0 Quartz segregations with some Py and Aspy.			
			40.00 End of hole			
			NB! This is only a preliminary description. Samples were lost during helicopter transport and no de-			
			tailed investigations are done.			
******	*********	4				

OCATION	SEKSA	BEARING: W DIP: 50° HOLE NO. 30 SHEET NO. 1
LOGGED BY: R Si CASING: 9.0 m CORE SIZE:		STARTED PROPERTY Kolsvik
		TESTS (CORRECTED):
From	То	Description
.0	8.5	Cverburden
8.5	17.6	Limestone
		In places strongly deformed and broken.
		Development of skarn mineralogy in the lower contact area.
1 7. 6	18.7	Mica schist. Core angel 46°
18.7	19.5	Granite.
		Medium grained with small py grains at lower contact.
		Mica schist occurs as fragments.
19.5	21.0	Limentana
10.0	21.0	Limestone Development of skarn minerals mainly pyrox. and garnet. Py
		occur as minot grains.
21.0	42.4	Granite.
	5-5-65-65-65-65-6	Medium grained with a white to grey colour. In places a red
		colour is caused by late zeolitic veins.
		The main zeolithic veins are in most cases parallel core string
		but a 40-45° core angel is also very frequently occurring. From 30-40 m random orientation of the veins.
		21 - 24 m Broken granite with Aspy and py.
		38.7 m Quartz vein with Aspy 15°, 1 cm.
		40.1 m Quartz wein with Aspy 25° 1-2 cm.
*******		the term of the te
42.4	48.1	Diorite? with secondary biotite
200	***************************************	Core angel
		Upper contact 55° Biotite foliatein 55°
	•••••••	
		Granitic veins 43.3 70°
		44.4 60°
48.1	50.5	Granite Pink colour modium acciona
		Granite. Pink colour, medium grained. 50.5 - 50.5 Broken
		48.4 zeolitic vein 40°
56.3	56.9	Mica schist as above
56.9	57.4	Granite Coarse grained with a pink colour.
		Quartz veins parallel core string.
91.01 (B) (B)		
		_ 4

COED !	DV.	D CZ	BEARING: W DIP: 50°	
		R.Si	***************************************	PERTY
CASING: 9.0 m				Kolsvik
CORE SIZE:			TESTS (CORRECTED):	Bindal
From	То		Description	
57,4	58.4		MICA SCHIST	
58.4	60.9		GRANITE	
		H-PHINDREING	Medium grained with a grey col	lour.
		***************************************	5	
60.9	61.3		MICA SCHIST	120
61.3	62.9		BRECCHIA	
J	02.3		Development of clay minerals	
			interpretation of any manufacture	
62.9	68.5		GRANITE	
	•••••		Medium grained with grey colou	ır
68.5	70.0	***********	MICA SCHIST/MICA GNEISS	
70.0	77.1		GRANITE	
70.0	77.1		Medium grained with grey colou	ıt
			72.9 - 73.2 Mica schist frag	gment
	*************		75.4 - 75.6 - " "	' =
	77.1		END OF HOLE	
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veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere icts of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 ar 9.10 - 9.30) + Musc. on these good Aspy minerali- zation. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.							CRRECTED):
1.45 - 3.05 Granite, mostly mussive grey granite with some scattered dots of Aspy. From 2.60 - 3.80 some quartz and bands of Aspy. At 3.05 Contact 60° 3.05 - 3.35 (Highly) foliated diorite, foliation 60°. At 3.35 Contact 60° 3.35 - 4.50 Granite. From ab 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70 -80-90. Only dots of Aspy associated with these. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere dots of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30)! Musc. on these good Aspy mineralization. Otherwise only scattered Aspy Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Coatact 35°.	From	То					Description
scattered dots of Aspy. From 2.60 - 3.80 some quartz and balds of Aspy. At 3.05 Contact 60° 3.05 - 3.35 (Highly) foliated diorite, foliation 60°. At 3.35 Contact 60° 3.35 - 4.50 Granite. From ab 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70 - 80-90. Only dots of Aspy associated with thes. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by strep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere cuts of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30) + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.	0	10		0	_	1.45	Overburden
3.05 - 3.35 (Highly) foliated diorite, foliation 60°. At 3.35 Contact 60° 3.35 - 4.50 Granite. From sb 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70-80-90. Only dots of Aspy associated with these. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere dets of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30) + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.				1.45	- ;	3.05	scattered dots of Aspy. From 2.60 - 3.80 some
At 3.35 Contact 60° 3.35 - 4.50 Granite. From ab 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70-80-90. Only dots of Aspy associated with these. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.33 at 80°. 6.20 - 7.30 Rather massive granite with scattere dots of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30) + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60°. At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80°. 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.	- CATE (-27)				At	3.05	Contact 60°
At 3.35 Contact 60° 3.35 - 4.50 Granite. From ab 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70-80-90. Only dots of Aspy associated with these. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.33 at 80°. 6.20 - 7.30 Rather massive granite with scattere dots of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30) + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60°. At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80°. 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.			***************************************	3.05	_	3.35	(Highly) foliated diorite, foliation 60°.
3.35 - 4.50 Granite. From ab 4 m cut by thin quartz veins (2-3 mm thick and direction ab 70-80-90. Only dots of Aspy associated with thes. Near 4.50 also Aspy veins. At 4.50 Contact 70°. 4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere dots of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 ar 9.10 - 9.30) + Musc. on these good Aspy mineral: zation. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.							
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4.50 - 4.70 Foliated diorite foliation 80°. At 4.70 contact 70° 4.70 - 9.40 Granite 4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere fots of Aspy. 7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30) + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.				9	At	4.50	Contact 70°.
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7.30 - 9.40 Broken and highly deformed quartz ric granite with mylonite textures (At 7.60 - 7.80 at 9.10 - 9.30] + Musc. on these good Aspy mineralization. Otherwise only scattered Aspy. Planar structures in mylonitic zones are ab 60°. At 9.40 contact 60° 9.40 - 10.00 Foliated, fine grained diorite Foliation 60° At 9.80 Aspy on one singe (½ cm) Concordant quartz vein. 10.00 - 10.70 Diorite, less foliated than before, also coarser Rich in pyrite 10.70 Contact 80° 10.70 - 13.20 Granite. Rather massive medium grained. Scatter Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.		***************************************		4.70	-	9.40	4.70 - 6.20 Little mica and cut by steep quartz veining. Only scattered Aspy on these. One Aspy vein at 5.03 at 80°. 6.20 - 7.30 Rather massive granite with scattere.
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Aspy near lower contact. 13.20 Contact 20°. 13.20 - 13.50 Diorite, foliation 35°. Contact 35°.		***********		10.00	-	10.70	Rich in pyrite
13.20 - 13.50 Diorite, foliation 35°. Contact 35°.				10.70	-	13.20	Aspy near lower contact.
NOTE OF THE PROPERTY OF THE PR	751 TIME 0			13.20	-	13.50	
		***************************************	311				

LOCATION:	BEARING: 270° E DIP: 80° HOLE NO: 31 SHEET NO: 2
LOGGED BY: ØM	STARTED: 7.7.82 PROPERTY
CASING:	FINISHED: Kolsvik, Bindal.
CORE SIZE:	TESTS (CORRECTED):

From	То			Description
			13.50 - 13.90	Musc. & chicrite rich granite
			13.90 - 15.40	Diorite, rather massive. Rich in py but some scattered Aspy seen at ab 15.00. 15.40 contact 75°.
			15.40 - 18.15	Granite. Some quartzveining and Aspy, py on these. Direction 70-90. Then rather massive but Aspy veining seen at 17.02 (% cm quartz at 80°) and at 17.70 At 18.15 contact 55°
			18.15 - 18.50	Diorite. Unfoliated.
	•••••		18.50 - 20.00	Granite. Grey and containing fragments of diorite.
	30.0		20.00 - 20.90	Granite like 18.50 - 20.00, but more biotite from 20.70.
	******		26.96 - 21.70	Biotite rich diorite. Weak foliation (70°) At 21.70 contact 55°
			21.70 - 21.95	Granite with py and Aspy along fractures. At 21.95 contact 65°.
		2 10	21.95 - 22.80	Piorite like 20.96 - 21.70. At 22.80 Contact 70°
			22.80 - 23.30	Granite: Some aggregates of py and Aspy in the middle of the zone. At 23.30: contact 50°.
			25.80 - 26.00	Granite. Massive Contact 26.00. 80°.
			25.00 - 27.80	Diorite like above At 27.80: Contact 75°.
		48	27.80 - 28.20	Rather mussive granite. Seen some scattered py.
			28.20 - 28.40	Diorite
			28.40 - 28.70	Granite. Can be traces of Aspy along thin fractures. 27.70: Contact 55°.
			28.20 - 30.00	Diorite, like above.
30.0	40.0		30.00 - 30.95	Diorite. Foliation 50°. Cut by granitic veins at 50°. At 30.95: Contact 50°.
			30.95 - 32.40	Grey, little mica, and massive granite. 32.40 contact 90°.

LOCATION:	BEARING: 270°E DIP: 80 HOLE NO: 31 SHEET NO: 3
LOGGED BY: ØM	STARTED: 7.7.82 PROPERTY Kolsvik, Bindal
CASING:	FINISHED:
CORE SIZE:	TESTS (CORRECTED):

From	То		Description
	****	32.40 - 35.30	Diorite. Doliation 65°. 35.30: Contact 60°
		35.30 - 36.80	Granite: Varying content of biotite. Foliated (60°) in biotite rich parts. Aspy seen along musc. filled fracture at ab 35.70 - 35.80. Fracture from 30° → parallel. At 36.30 contact 60°.
		36.80 - 37.20	Fine grained diorite. Foliation 70°.
		37.20 - 37.35	White granite
			Fine grained diorite Cut by thin quartz and granites at all directions
10.0	.50.0		Granite. Grey. Some musc. along fractures. 40.70 contact 30°.
		40.70 - 41.30	Diorite 41.30 contact 70°
		41.30 - 42.05	Grey granite. Miscovite along fractures
			42.05: contact 40°
		42.05 - 42.80	Diorite, only weak foliation (50°) cut by some granitic veins (50°). At 42.80 contact 30°.
		42.80 - 44.55	Massive grey granite. Fracture zone at 43.15 to 43.25. Direction 25°. 44.55: contact $\approx \bot$
77105		44.55 - 45.00	Fine grained diorite 45.00: contact. contact 80°.
		4 5. 0 0 - 4 9. 1 5	Granite. Aspy on one single fracture. At 45.80 at 15° otherwise only muscovite and core totally fractured.
	49.15	End of hole.	
************		+	
	10 A 10 E-A1	•••	

^A/s SULFIDMALM

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	BY:	
ORE SIZ	E:	TESTS (CORRECTED): Bindal
From	То	Description
*************	Man Manager and L	
0	The second secon	Overburden
4.0	6.0	Medium grained. Grey granite. Shearing is developed at 5.4-5.5 45°. 6.0-6.5 Increasing quartz content.
6.5	6.6	Strongly sheared diorite 55°
6.6	6.95	Quartz vein with arsenopyrite stringers 55°
6.95		Medium grained grey granite. Quartz stringer along shear plane. In some cases Aspy. 50 - 55°. Joints are developed 11 55°. Zeolite.
10.0	13.65	Medium grained diorite. Which gradually change to med. grained granite around 11.0 m. Aspy veins 11.6 - 12.0 40°
13.65	15.9 .	In places strongly deformed diorite. Biotite.
15.9	16.05	Quartz Aspy vein 65°.
16.05	17.5	Grey granite. Aspy specks.
17.5	18.5	Deformed diorite. Mica schist
18.5		Med. grained grey granite. Streaked out and deformed. Aspy/quartz 19.05 - 19.1 80°.
20.0	25.0	Slightly deformed coarse grained retrograded. 33.7 - 34.1 Amf. porphyrites
25.0	27.7	Deformed diorite
		Aspy vein 2 cm 25.15 + Py 45° 1 cm 27.3 + Muscovite
27.7	33.5	Grey med. grained granite. Dioritic fragments 30.5 - 32.0
		Fractures 15 - 20 Muscovite.
	33.5	End of hole.
	722	

OCATION:	B-zone	BEARING: DIP: 90° HOLE NO: 34 SHEET NO:
	Y: R Si	STARTED: PROPERTY
	4.5 m	FINISHED: Kolsvik, Bindal
ORE SIZE	·	TESTS (CORRECTED):
From	То	Description
0	4.0	OVERBURDEN
4.0	7.4	GRANITE
		Fine to medium grained with grey to white colour.
7.4	8.0	DIORITE ?
		In places rich in biotite
	19.7	GRANITE
		Medium grained - white to grey
		9.35 Mylonite 5 cm zone 65° core angle + Po
		8.8 Small Aspy grains
		18.8 - " = - " -
		13.6 - " " -
	21.6	DIORITE
HERETERS AND AND AND AND AND AND AND AND AND AND		In places rich in biotite and sheared. Shearplanes: 30° core angle
		20.4 Aspy streaked out parallel shearplane
21.6	23.0	GRANITE
		Sheared, in places Aspy grains, streaked out parallel
		shearplane.
23.0	23.6	DIORITE
23.6	30.0	GRANITE
		Fine to medium grained, white to grey.
		Some shearing.
		Core angle shearplane 35°.
		Randomly distributed Aspy veins in the core string -
		orientated parallel to 75° (core angle).
30.0	30.2	DIORITE
		Deformed Aspy at lower contact.
30.2	32.3	GRANITE
		Fine to madium grained with a grey colour.
		Aspy as specks randomly orientated.

LOCATION	۷: <u> </u>	3-zone	BEARING: DIP: 90° HOLE NO: 34 SHEET NO: 2
LOGGED	BY:F	R Si	
		1.5	FINISHED: Kolsvik, Bindal.
CORE SIZ	:E:		TESTS (CORRECTED):
From	То		Description
32.3	34-7		MICA SCHIST
			Mainly biotite
34.7	35.0		GRANITE
			Small grains with Aspy
35.0	35.3		MICA SCHIST/RETROGRADED DIORITE ?
and the same of th			Aspy on quartz vein at 35.1
35.3	37.4		GRANITE
	ļ		Fine to medium grained.
mizn -m			Narrow Aspy veins at 35.4 and 35.5
37.4	39.5		MICA SCHIST/DEFORMED DIORITE
			Aspy on quartz vein.
		70.2	• • • • • • • • • • • • • • • • • • • •
39.5	44.9		GRANITE
			Fine to medium grained.
			Small Aspy grains seen.
			Meta sediment fragments at 41.4 and 42.4
			Shear zone at 39.6
			Aspy on fracture at 41.8
	5 <u> </u>		
44.9			MICA SCHIST (DIORITE)
	47.5	2	GRANITE
	48.0	i i	MICA SCHIST (META SED.)
480	485		GRANITE
***************************************			Aspy specks
48.5	49.2		MICA SCHIST
***************************************	53.7		GRANITE
. 12.			Medium grained, white colour
			Aspy specks.
53.7	55.15	or marries	MICA SCHIST
			Strongly sheared
o hite and and and			53.9 - 54.4 Quartz vein with Aspy - 10°
ı İ			

OCATION:	B-zone	BEARING: DIP: 90° HOLE NO: 34 SHEET NO: 3
	Y:R_Si	
ORE SIZE		TESTS (CORRECTED):
From	То	Description
55.15	63. 2	GRANITE
		Medium grained, grey colour
		Aspy grains, randomly distributed
		60.1 Aspy vein
		62.2 - " -
		59.8 P y
63.2	67.3	MICA SCHIST
		Rich in garnets
67.3	70.6	GRANITE
		Fine grained
	70.7	MICA SCHIST
70.7	70.9	GRANITE
70.9	71.6	MICA SCHIST (DIORITE DEFORMED ?)
71.6	71.9	GRANITE

71.9	72.5	MICA SCHIST AS ABOVE
72.5	73.1	CDANITOD
	70.1	GRANITE
	73.1	END OF HOLD
	73.I	END OF HOLE
	27-17-17H	

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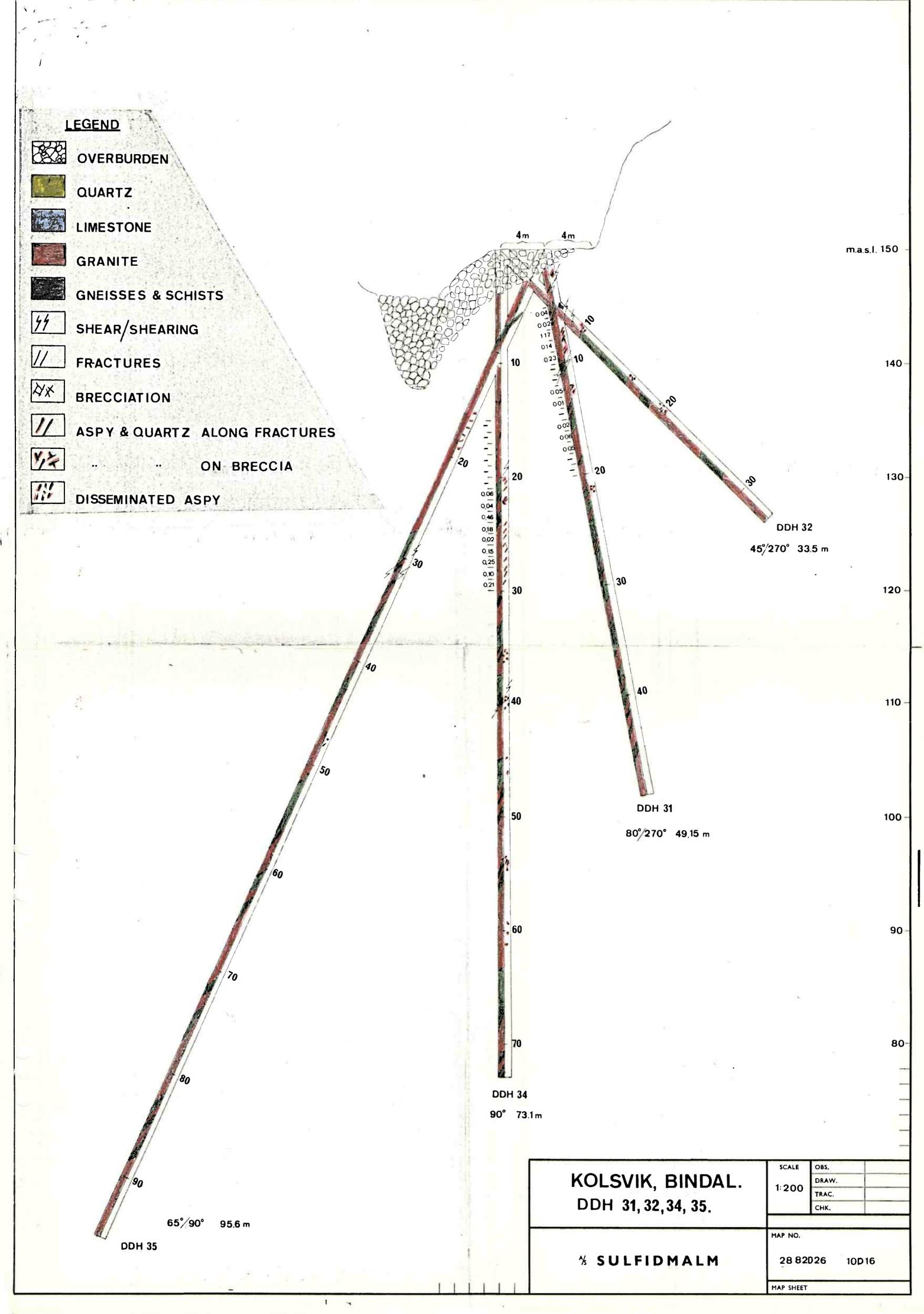
^A/s SULFIDMALM

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0,12 0,22			12010 (00)	incoreby.							••••
From	То				Des	cription					
0	1.5		OVERBURDEN								
			17							1.2	
1.5	6.5		GRANITE			2					
			Medium gr developed		grey col	our. T	wo sets	of jo	ints	are	
			Core angl	e 80°	joints w	ith Asp	y				
			_ " _	50°.	joints	no Asp	у	- 2			
6.5	6.9		MICA SCHIST								
			Schistosi	ty 45°			,				
6.9	26.9		GRANITE								
			Medium gr	ained, g	rey colo	ur					
			7 - 10 m	develop	ment of	joints	with co	re ang	g. 80°	Aspy	
		,	10.8		ith Aspy	T.					
	-6		12.6		II		Quartz	60°	v.		
			13.2	_ " _	·· _ ·	_	"	35°		34	
***************************************			16.2	- " -	" - "	_	11	3 0°			
	iii 110	*****	16.9	- " -		_	*11	50°			
			17.4	_ " _	" _ "	_	**	50°			
			18.5	Quartz	vein, 1	cm 60°					
	2000 C 1		19.05	_ 11 _			Aspy				
			19.9	Fractur	e with A		-85/2				
			20.8	_ # _	_ " _	. 64					
				Quartz	vein 2					5	
			25.5								
				. ractur	W HI CII A	.spg , <u>n</u> o					
26.9	30.1		DIORITE								
			Slightly								
	<u></u>		Lower co		40°	8					
***********	<u>*:</u>	55	At conta	ct some	Py + Qua	rtz.					
											1
- 1											

	E:	
From	То	Description
.30.1	30-3	GRANITE
30.3	30.4	DIORITE
		Contact 30° Py
30.4	.30.9	GRANITE
		Medium grained. Rich in quartz. Mica - mainly
		muscovite on fractures. Core angl. 20°, 35°.
*************		Aspy occurs on lower contact.
30.9	32.0	DIORITE
		Fractures parallel core contains zeolite minerals
32.0	34.0	GRANITE
		Medium grained with white to grey coulor
***********		Schisotsity developed - marked by muscovite - core angl.40°.
		Small Aspy grains at 33.7
34.0	3 7.1 5	DIORITE
	************	As above
27 15	40.0	GRANITE
37.15	40.0	Medium grained with white colour. Some fractures developed 40°.
		39.5 Quartz vein - 2 cm - 10°.
40.0	41.9	DIORITE
		. As above
41.9	51 .9	GRANITE
	1000 0000 0000	Medium grained - grey colour
		Muscovite/chlorite. Developed on fractures core angl. 40°
		37.5 Aspy-Quartz veins - 2 cm - 75°
51.9	56.0	DIORITE
***************************************		As above.

LOCATION	B-zone	BEARING: East DIP: 65° HOLE NO: 35 SHEET NO: 3
LOGGED E	Y:	Si PROPERTY
CASING: _		FINISHED: Kolsvik
CORE SIZE	E:	TESTS (CORRECTED): Bindal
From	То	Description
		<u></u>
56.0	60.1	GRANITE
		Medium grained granite. Muscovite on fractures 10°
		59.3 Quartz vein
	60.15	DIODIME.
60.1	62.15	
		Foliated 40°
		Contains garnets
62.15	62.6	GRANITE
62.6	62.9	DIORITE
		As above
62.9	70.5	GDANIETE CONTROL
02.9	70.5	GRANITE
		65.7 Aspy on fracture - 55°
- 277	220	
7 0.5	71.8	DIORITE
		Strongly deformed
		Rich in biotite
71.8	73.5	GRANITE
71.0	75.5	Medium grained with muscovite and chlorite
		Medium grained with muscovite and chiorite
00.0		D. C. D. T.
82.2	82.7	DIORITE
82.7	83.9	GRANITE
83.9	84.5	DIORITE

84.5	86.3	GRANITE
		GIGHTE
86.3	99 0	DIORITE
30.3	88.0	DIORITE
88.0	95.6	GRANITE
	33.0	Medium grained
	0.5	.6 End of hole
	. 95	.o - Bid of hote



From	То	Description
0	1.40	OVERBURDEN
1.40	24.45	GRANITE Fine and Medium grained. Mainly grey in colout, but
***************************************		by turns pale red colour. Traces of scattered disseminated
		Hopy minerals are observed.
•••••••••••		4.00 - 4.40: Quartz veining with some Aspy occasionally
		associated with Py. At 4.10 m, ½ cm Aspy-vein at 45° angle
		to core.
1175-2101		5.20 - 5.90: Quartz veining with some Aspy. Locally some P
		19.30 - 19.60: Fracture zone with some zeolite mineralizati
	25.60	MICA SCHIST Foliation 45°
		24.45 : contact crushed
		25.60 : contact 30°
25.60	46.10	GRANITE Fine and medium grained. Alternating between grey
		and red colour. Strong red alteration last ten meters
		with zeolite minerals along fractures.
		minerals along fractures.

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