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En tykk rapport med masse bilag. Borlogger fra boringene, med analyser Nr. 1460

RINGVASSØY PROJECT (N-82-3)

FOLLDAL VERK A/S - AMOCO NORWAY OIL COMPANY

NOVEMBER 1984

Submitted by:
Jim Cuttle.

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SUMMARY AND CONCLUSION

The summer drilling program on Ringvassøy checked geochemical and geophysical (I.P, CEM) anomalies located by previous field surveys during 1983 and early 1984.

Between July 18 and July 30 a total of 8 holes (692,65 meters) were drilled on five different grid areas. After receiving favourable results from a Zn, Au, Ag horizon intersected on the Sørdalshøgda grid, an additional six holes (489,70 meters) were drilled during Oct. 20 - Nov. 7 to test the depth and strike length of the zone.

Several areas remain to be checked by intense follow-up field work that will very possible lead to the drilling stage. Such areas as Sørdalshøgda, Leirbogdalen, Kable and numerous small gold anomalies on the island should not be excluded from this group.

RECOMMENDATIONS (High priority)

Sørdalshøgda - Drilling outlined an anomalous Au, Zn, Ag zone with apparent 350 meters strike length and 60 meters down dip extension. The width varied from 1 - 2 meters and it is believed the zone has been faulted. For continued exploration the following areas should receive priority with detailed surveys. Firstly the entire grid area should be mapped an an intensified scale. Separation of distinct volcanic rocks (quartz carbonate chlorite schists, carbonate rich mafic lapilli tuff, mafic spotty amphibolite, and felsic extrusive and intrusive series) along with possible fault zones, quartz vein/boudin rich areas, and strike and dip. Extension of the grid to the west should include P-0+00 ØV to P-4+00 V at 100 meter separation. Length of the profiles to the north will be dependent on the location of competitor ground which intersects our B/L at approximately P-4+50 V and trends north-south. Detailed mag (6,25 m spacing), VLF (12,50 m spacing, dip only), soils (every 25 m for Au, Cu, Pb, Zn, Ag), and I.P. should be run. Extension of the grid

to the north from 6+00 N on profiles 3+00 Ø, 4+50 Ø, 6+00 Ø will better isolate a gold, copper anomaly from 1983 field work. Again soils, mag, VLF, and I.P. should be sufficient to determine the extent of the mineralization. Fourthly, an I.P. anomaly remains to be tested along strike slightly north west of our confirms Au, Zn, Ag horizon. The anomaly seen on both profiles 3+75 Ø and 3+00 Ø at 1+60 N should be drill tested on P-3+00 Ø. 2+00 N. Cross section of this hole may help determine the number of faults and displacement involved.

Leirbogdalen - Detailed mapping of the anomalous soil horizons from P-3+00 Ø to P-4+00 V will help narrow the field to the best possible drill sights. Spotty amphibolite and an argillaceous unit may be used as possible marker horizons. Again VLF (for fault and sulphide zones), and I.P. should be run north of the base-line along profiles 1+50 V, 3+00 V, 4+00 V. Anomalous soil samples (up to 1100 ppb Au) at 5+50 N on P-3+00 V and P-4+00 V are of particular interest.

If the desision to drill is made on this grid area, one should keep in mind the terrain has been very possible faulted and also shows highly anomalous soil samples for arsenic. Drill core assays show valued of < 1000 ppm As and up to 0,25 % Zn.

<u>Kable</u> (Sørdalshøgda Nord) - Of interest here is the possible continuation of the heavily oxidized quartz carbonate chlorite schist unit that was found to be mineralized in the Sørdalshøgda grid drill holes. Outcrop of this unit is seen on P-10+25 Ø, 4+15 N as a roadside exposure and may be the reason for the strong Sp anomaly on the Kable I.P. profiles. Detailed mapping and an in-depth geological cross section up to the Sørdalshøgda grid would aid in the understanding of the area.

General prospecting and grid follow-up on the areas as follows:

a) U.T.M. area 3700 E, 5900 N where samples up to 3700 ppb Au and 17,40 % As have been obtained. A grid should be set up with the appropriate field surveys.

- b) U.T.M. 3100 E, 6800 N where stream sediment values up to 1900 ppb Au and rock samples up to 1500 ppb Au have been located. This is the upper section of the Leirbogdalen valley.
- c) The Karvikdalen area centered at U.T.M. 2520 E, 5800 N has potential for fault related lead-zinc+ gold mineralization. Grid work would hopefully isolate this zone.

1985 field work may include the following work duties and personel

- l project geologist
- 2 field assistants
- Detailed mapping on two areas (Sørdalshøgda and Kable)
- Grid extensions and new grid locations involving 3 grids with VLF, Mag, soil and I.P. surveys.

Work period starting from early June and finishing in September. Drilling can conclude the field work if the summer's results warrant it.

INTRODUCTION

During the last three summer and fall field seasons geological exploration, follow-up, and drilling has been conducted on the island of Ringvassøy in Northern Norway. This favourable Precambrian volcanic environment shows potential for Au enriched tuffaceous and massive sulphide horizons, and Au, Cu (Ag) quartz vein type mineralization. Previous field seasons isolated several drill targets by means of VLF, magnetometer, geochemical, and geological grid work over anomalous stream sediment results. Ground work during the 1984 field season included I.P. and CEM surveys that better isolated accurate drill sites. Fourteen holes were later drilled for a total length of 1181 meters.

during later July and later October. Several anomalous Au, Cu, Pb, Zn areas remain to be investigated throughout the island.

LOCATION AND ACCESS

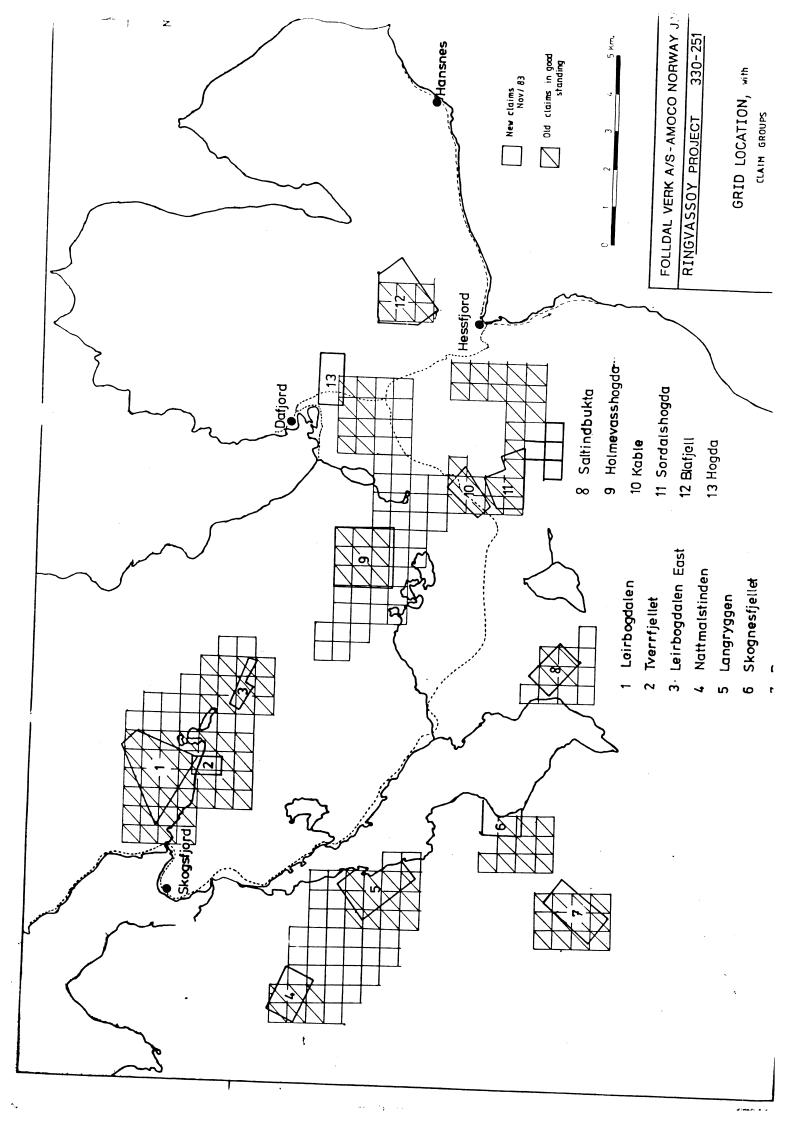
Ringvassøy is one of the larger coastal Norwegian islands centeres at $69^{\circ}57$ ' Lat., $19^{\circ}15$ ' Long., just 35 air kilometers north of Tromsø. The project area is within the Karlsøy commune of the Tromsø province.

Much of the work area on the island is easily accessible by paved and gravel road or in certain cases by small boat. Regular hourly ferry service from the mainland at Futrikelv to Skulgammen on Ringvassøy operates daily from 7.00 AM to 9.40 PM. Daily bus service also exists to and from the island. Departures may be located in the Tromsø town center. The main service center is Tromsø which is connected daily by flights to and from Oslo and Trondheim.

LAND STATUS

All claim groups held by Folldal Verk A/S shown on the following map of Ringvassøy are in good standing for seven years up to the winter and fall of 1990. These groups were stated, both as a result of anomalous areas located by the 1982 stream sediment survey, and by incouraging follow-up results in the 1983 field season. Several groups have yet to be fully investigated and these areas will be later discussed under further potential prospects.

Extensive exploration by other companies such as Prospektering A/S and A/S Sulfidmalm have tied-up much ground. These companies seem generally to have staked over known sulphide occurrences and their possible strike extensions. They have reached the drill stage on certain areas, although is is believed much of their ground has yet to be investigated, especially the Sørdalshøgda Au area where probable futher concern will most likely lie during the 1985 and for 1986 field season.



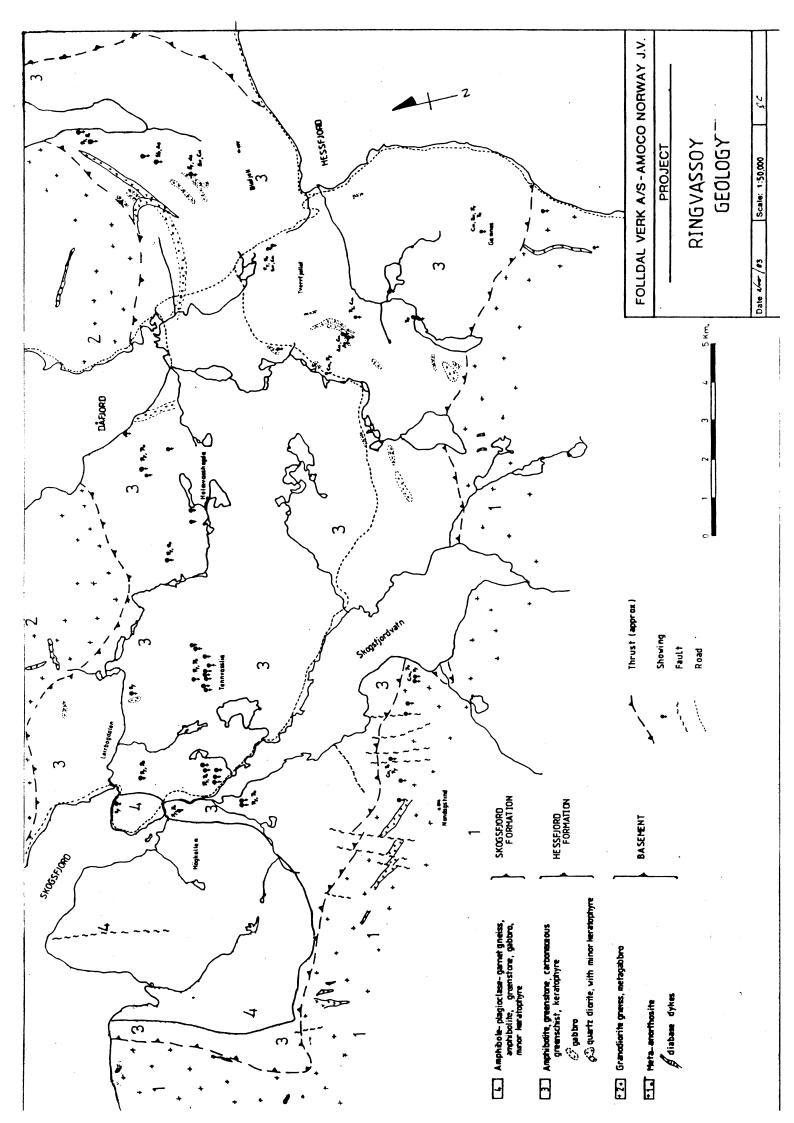
REGIONAL GEOLOGY

Age and Overview.

The Norwegian Geological Survey (N.G.U.) have recently conducted field surveys on Ringvassøy to better understand the complexities of this small and isolated group of volcanic rocks. Prior to NGU's latest study, the age and rock types of Ringvassøy were classified as Caledonian, the extensive early to mid Paleozoic suite of rocks stretching almost the entire length of the Norwegian coast. General age concensus is now thought to be Precambrian, although concrete evidence still remains sketchy. Reasons for a Precambrian age are as follows, as suggested by the conclusion of the NGU study:

- 1) The contact between proven Caledonian sediments of the Hansnes Formation and the main volcanic belt on Ringvassøy is regionally discordant, a situation not found in other areas of the well studied Caledonide mountain chaim.
- 2) Mafic rock types match closely to other volcanic rocks found in Precambrian windows of Troms and Finnmark.
- 3) Caledonian "vasskis" type formation is found on Ringvassøy to be closely related geochemically to similar Precambrian "vasskis" type rocks in Finnmarksvidda.

At this stage only a general breakdown of the volcanic and basement rocks can be made with any degree of certainty. Specific isolation of volcanoclastic rock types, intrusive sequences, and volcanic flows are restricted to areas of known mineralization namely Sørdalshøgda, Gamnes, Tennvasslia, and Nondagstind.



The following is an account of the geological frame:

1) Hansnes Formation
Mica schists, quartzites, limestones,
minor graben schists.

(thrust contact)

Precambrian volcanics

2) Skogsfjord Formation Quartz feldspar biotite gneiss, agglomerate, greenschist, minor

keratophyre, gabbro, and quartz feldspar mica intrusive.

3) Hessfjord Formation

Calcareous greenschist, mafic volcanic flows and tuff, amphibolite, quartz diorite relatives, minor quartz eye feldspar intrusive dykes, gabbro, argillite, quartzite, and "vasskis" formation

(fault contract (?)) (thrust contact (?))

Mikkelvik Group
Quartz, biotite gneiss, quartz diorite, meta-

Basement

5) Simavik Group

Anorthosite, amphibolite dykes, quartz diorite

The Caledonian Hansnes Formation will not be discussed here as our work area was kept away from this particular group of rocks.

The main volcanic belt has been divided into two groups, the Skogsfjord and Hessfjord Formations. The Skogsfjord Formation occupies only a small area in the north west position of the project area. It is considered the younger in age and is

characteristically dominated by garnet rich quartz feldspar biotite schists and gneisses, greenschist, volcanic agglomerate, and minor gabbroic and quartz feldspar mica intrusives. The group is thought to represent a major change to a less dominated volcanic environment. Very few mineralized horizons have been located here with the exception of the pyrite horizon at Skogsfjord. By far the most important unit is the Hessfjord Formation in terms of exploration potential. It hosts approximately 95 % of all known sulphide occurences, most of which are massive pyrite and pyrrhotite horizons. The geology of this particular formation can be further broken down to generally two rock types, calcareous greenschist in the south and mafic volcanics in the north. A high degree of mixing is seen of both types. The rough boundary between these two units commonly host quartz diorite sills and extrusive tuffaceous North of this boundary extensive and flow equivalents quantities of mafic volcanic flows, amphibolite, and mafic tuff are seen intermixed with minor calcareous greenschists. area hosts many of the old massive pyrite and pyrrhotite diggings that are so commonly found on the island. Only very limited amounts of base metal mineralization are found here, compared generally to the southerly calcareous greenschist unit, where old diggings generally contain higher contents of copper, zinc, and gold. Detailed futur exploration in this area would isolate perhaps the best potential of finding profitable mineralized horizons.

The basement rocks that underlie the main volcanic pile can be broken down into two groups. The Mikkelvik Group, located along the northern boundary of the volcanic belt is of plutonic origin. Generally a unit of granodioritic compostion, it includes a distinctive gneissic texture and has been highly deformed in certain areas to produce magmatites. Younger intrusive gabbros and lengthy amphibolite dykes are common associates. The oldest group, The Simavik Group, has extensive exposure throughout the island. In the project area it may be located along the southern and south western volcanic boundary. Rock types include creamy meta-anorthosite, coarse amphibolite dykes, with minor chlorite and sericitic schists,

quartz diorite and greenstone. Both groups show generally a north to northwesterly strike, with dips vertical or steep to the east. In the Simavik Group there are several small sulphide occurrences generally along or close to the volcanic boundary. Minor lead-zinc carbonate veins have also been found, isolated along probable fault zones and fractures. No similar occurrences have been found in the Mikkelvik Group.

Property work

including drilling, CEM, and I.P. surveys.

A) Sørdalshøgda (Au, Zn, Ag) This area has proved to be the most promising area from 1983 field results as soil sampling has isolated a large gold anomaly with associated zinc, silver, and copper. The size of the geochemical anomaly is approximately 300 m by 400 m, with gold values up to 2400 ppb (average 100 ppb Au) although the size of the anomalous zone may be a feature of topography combined with slightly dipping strata. Zinc, copper, and silver are seen to be isolated more specifically to horizons conformable to the strike of the rocks within the main gold anomaly.

Geology of the grid area includes an easterly to north easterly striking series of quartz carbonate chlorite schists, mafic tuffs, chlorite schists, mafic volcanic flows, and amphibolite. Minor small lenses or dykes of quartz diorite are seen in the north end of the grid. The series is underlain by mafic volcanics that are rich in many large northerly striking quartz boundins and veins. These are evident from field observations in the south east corner of the grid. Dips vary from $40 - 50^{\circ}$ in the south to $15 - 30^{\circ}$ near the base-line and $30 - 50^{\circ}$ in the north.

I.P. work included approximately 5,8 km of combined dipole
dipole and gradient I.P. over the main geochemical anomaly.
A strong anomaly was outlined between profiles 4+50 Ø and
7+50 Ø with a weakening on both ends on profiles 3+75 Ø and

9+00 Ø. VLF was carefully taken over this zone at 12,5 m intervals and the dip angle isolates several different anomalies, some coincident with the outgroping sulphide zone just south of the base line (P-6+00 \emptyset , 6+75 \emptyset , 7+50 Ø) and others very possible fault related. The responses are usually very weak and not more than 5 - 8 degrees change in dip. Mag proved helpful in isolating part of the outcropping mineralized zone which contains a high magnetite content, although where dips are flat or where topography follows the dip, mag may prove unreliable or hard to interpret. It is also thought mag may isolate some fault zones due to the high concentration of magnetite in the fault zone as in hole number Sør-8/84. This fact is reinforced by the mag hi's on P-7+50 Ø and P-9+00 Ø just north of the base line that coincide with the topographical faults features of the area.

Four holes totaling 265,80 m were first drilled between July 18-24, three of which tested I.P. anomalies and the fourth (Sør-3/84) checked a strong gold geochem. Drill holes Sør-2/84 and Sør-4/84 both intersected a sphalerite horizon anomalous in zinc, gold, and silver. After receiving positive assay results an additional six holes (489,70 m) were drilled during October 20 to November 7 to test strike length and depth of **t**he zone.

Drill hole and grab sample results are as follows. Anomalous sections for gold in both drill hole have been reassayed and provide matching results.

Grab sa	ample (surface)	Au(ppb)	Zn(%)	Ag(ppm)
Sør-36	(P 7+40 Ø, 0+72 S)	5.100	> 0,4 %	6,0
Sør-37	(P 7+44 Ø, 0+68 S)	2.200	> 0,4 %	5,0
D.D.H.	Sør-2/84.			
	23,50 - 24,50	150	0,16 %	3,0
	24,50 - 25,50	1.200	1,39 %	5,5
	25,50 - 26,50	120	0,13 %	3,0
D.D.H.	Sør-4/84.			
	32,50 - 33,50	619	0,19 %	2,5
	33,50 - 34,50	34	0,10 %	3,0
	34,50 - 35,50	1.600	0,84 %	4,5
	35,50 - 36,50	1.300	0,87 %	5,0
D.D.H.	Sør-9/84.	% Zn:		
	(results to be received)		
	12,60 - 12,95	1 %)	-1+:+-	
	19,40 - 19,60	l %) visu	al estimate	

Continued drilling did not penetrate any down dip extension of the zone which is presently 350 meters long by 60 meters wide, with a variable thickness of 1 to 2 meters. The zone is believed to be faulted.

The following may prove helpful for continued work in the area:

Possible marker horizons:

- Ore zone itself is within a highly oxidized quartz carbonate chlorite schist, with high percentages of magnetite, garnet, and biotite.
- 2) Upper contact of mineralized unit is commonly highly felsic, both tuff and rhyolitic features are present.

- 3) Mineralized schist/tuff is overlain by mafic volcanic flows, sometimes spotty, carbonate, or epidote rich.
- 4) Underlying the mineralized schist/tuff is commonly a light greyish green andesitic to dacitic rock type.

<u>Faults:</u> There are very possibly two main fault zones paralel to strike just north of the base-line, and a third of unknown strike that intersects the lower half of D.D.H. Sør-7/84.

- 1) Normal fault series increases the chance for ore towards the north side of the grid.
- 2) Throw may approximately be 40 50 meters on the fault between D.D.H. Sør-6/84 and D.D.H. Sør-7/84.
- 3) Keep in mind the difference between surface pacing on the grid and drill hole measurement. This will give false dips of the fault. It is believed that D.D.H. Sør-8/84 drilled at 60° S followed down dip of a fault zone for thirty meters suggesting the fault itself is dipping to the south.
- 4) These fault zones have generally been identified by one or a combination of the following field observations.

 VLF, Topography, sudden I.P. % decrease, drilling, and mag highs.
- B) Leirbogdalen (Au, As, Zn). Previous years field work in this grid area has isolated coincident Au and As geochemical values up to 310 ppb Au and < 1000 ppm As. In many cases these zones were found with VLF crossovers and significant mag hi's, and could be followed along strike throughout the grid.

1984 field work included 2 drill holes of 219,20 meters, a detailed mag survey, soils, 5,0 km CEM, and 1,2 km and 0,4 km gradient and dipole - dipole I.P. respectively. Our first drill target located on profile 0+00 EW at 5+25 N includes

soil values of 310 ppb ans 180 ppb Au, and southerly flanking arsenic values up to 140 ppm As, Two strong closely paralelling mag hi's are also coincident with this zone. A very weak shootback anomaly thought to indicate the absence of graphite and perhaps a more disseminated/massive type of mineralization, was later reinforced by both a strong gradient and dipole - dipole I.P. anomalies. Drill hole number Leir-1/84 on P-00+00 EW, 5+75 N, drilling south, intersected spotty amphibolite from 2,80 -48,85 m with an unusually high % of disseminated Po, Cp, and Py, most probably causing part of our I.P. anomaly and possibly our coincident first mag hi. No significant mineralized values were located in this section.

The only zone showing promise is a pyrrhotite rich black argillite unit located from 60,40 - 70,30 meters. This zone explains our second mag anomaly. Values are as follows:

	Au(ppb):	Cu(ppm):	Zn(%):	As(ppm):
60,50 - 61,50 meters	14	790	0,10	> 1000
62,50 - 63,50 meters	25	460	0,23	530
63,50 - 64,50 meters	35	390	0,25	29
68,50 - 69,50 meters	20	400	0,15	280

The copper values are exceptionally high in drill core although they are not isolated by soil geochemistry. The same can be seen for zinc which does not exceed 120 ppm in our soil geochem horizon. Gold and arsenic geochem in this case seem to best isolate our drill target and other possible drill targets in the future.

Drill hole Leir-2/84 was collared on P 1+50 Ø, 5+75 N drilling north to test Sp and IP anomalies. Minor gold and arsenic values are confirmed by soils, and weak VLF can also be seen. No significant values were located from drill core assays, although the hole was stopped at 84,60 meters due to drilling problems in a probable fault zone.

Of continued interest are the soil results received after drilling was finished for the extension of the grid to the west. Gold values up to 1100 ppb on P 4+00 W, 5+50 N and 47 ppb Au on P 3+00 W, 5+50 N coincide along strike with our first drill hole (Leir-1/84). These results are isolated but encouraging.

C) Kable (Au - Cu) (Sørdalshøgda Nor). Located on the north side of Sørdalshøgda, follow-up was done in response to good gold stream sediment values up to 520 ppb. Soil analysis isolated several gold anomalies coincident with quartz diorite and its flow equivalents. Approximately 2,3 line kms of I.P. were run over generally three profiles of grid, and a strong anomaly could be isolated by high I.P. sulphide The zone was drilled along profile 10+50 \emptyset % and low S.P.. at 3+50 N to a depth of 102,95 m. The variety of rock types included keratophyritic and rhyolitic flows grading into silicified clasitic and andesitic flows, and minor quartz eye feldspar intrusive, underlain by a mafic series of tuffs and spotty amphibolite. Our I.P. anomaly may be explained by disseminated pyrite and small stringer pyrrhotite and chalcopyrite in the upper series of the hole from 3,00 -46.60, within the more felsic rock series. Our strong mag, coincident with the dipole - dipole I.P. anomaly could not be isolated in the drill core, which, from outcrop mapping lay close to the felsic amphibolite contact.

From analysis of the drill core, results for all elements (Au, Cu, Zn, Pb, Ag) were discouraging. Further analysis of rock samples from outcropping quartz diorite that was coincident with our gold geochem are as follows:

	Rock samples:	Au ppb:	Cu ppm;	Zn ppm:	Ag ppm:	Pb ppm:
Quartz	251-Kab-6	< 2	9,0	10,0	< 0,5	4
diorite	251-Kab-7	13	19,0	13,0	< 0,5	4
and	251-Kab-8	43	16,0	51,0	< 0,5	4
flow)	251-Kab-9	15	4,0	30,0	< 0,5	4
equiva-	251-Kab-11	. 13	34,0	54,0	< 0,5	4
lents		ŧ				

Our gold geochem anomaly has very possibly been caused by high background gold values in the outcroping felsic rock series.

Other interests here are the isolated northerly striking quartz veins that may be found in close relation to the quartz diorite series of rocks. Analysis of several of these veins are as follows:

	Rock sample:	Au ppb:	Cu ppm:	Zn ppm:	Ag ppm:	Pb ppm:
	251-Kab-14	27	130	13,0	< 0,5	8
	251-Kab-15	23	110	24,0	4,5	30
Quart	^z 251-Kab-16	43	23	10,0	< 0,5	< 2 .
veins	251-Kab-17	30	200	51,0	2,0	42
	251-Kab-18	35	55	14,0	< 0,5	8

Again, above background values for gold are seen but none are very encouraging.

D) Five rock sample from approximately 1,0 km south of the Sørdalshøgda grid at UTM 3700 E, 5900 N are as follows:

	Au ppb:	As %	Zn ppm:	Ag ppm:	Pb ppm:
REC-28	450	6,64	170	4,0	740
REC-29	3700	3,92	40	0,5	8
REC-30	420	1,54	1600	1,5	62
REC-31	620	10,30	24	1,5	10
REC-32	310	17,40	550	2,5	28

From the quick reconnaisance survey the geology includes a series of northeasterly striking strata of dominant amphibolite, chlorite schists, intrusive quartz diorite and cross cutting northerly striking quartz veins and boudins. Eight claim blocks have been staked over the area by Folldal Verk A/S.

E) <u>Høqda (Au, Cu)</u> Interest was first taken here by sulphide exposure along the road down to Dåfjord, combined with anomalous stream sediment values of up to 120 ppb. Follow-up work included soils, mag, VLF, and 2,5 km of CEM which outlined an anomalous body 450 meters long. The conductor was found to fade to the west and run into competitor ground in the east. The horizon was later drilled on profile 9+00 W at 2+35 S to a depth of 104,70 meters. Two pyrrhotite rich felsic tuff horizons were intersected and coincided with both the mag and CEM results. Analysis of these zones were generally negative except for isolated copper values up to 1000 ppm.

To the south of this horizon approximately 350 meters N.G.U. has mapped a felsic intrusive series striking east - west. Further examination should include this contact as a possible gold source. To the east along the strike contact of this horizon it is believed Sydvaranger has successfully been panning flakey gold.

F) Lesser priorities.

A) Russemoen (Pb, Zn, Au). Limited follow-up work here was the result of a 1983 Pb, Zn, Au soil anomaly. Field observation located disseminated lead-zinc in carbonate veins hosted by possible fault breccia. Closely associated quartz diorite/quartz monzonite is seen within the mineralized zone. The fault breccia included carbonate/chert matrix with fragments of greenstone, chlorite schist, quartz diorite. Pb - Zn and minor disseminated chalcopyrite were isolated in north east/south west trending carbonate veins, paralell to a very possible fault zone.

Fifteen hundred meters of dipole-dipole I.P. were conducted along profiles 1+00 N, 2+00 N, 3+00 N. The outcrop of known mineralization at P-1+75 N, B/L did not respond to the survey nor did any other area of the survey. If further work is to be done, isolation of the fault zone would be most benefical.

B) Skognesfjellet (Au). Two gold anomalies were isolated here, one that could be contoured along strike for 300 meters (P-6+00 S, 7+50 S, west of B/L) and the second were two highly anomalous soil samples (380 ppb and 420 ppb Au) at 3+00 W and 3+50 W on profile 7+50 S. Exposure of rock is not exceptional although it is believed the anomalies lie within basement rock or perhaps very close to the thrust contact of the main greenstone belt of the island. Rock types and quartz diorite, amphibolite and anorthosite. Minor greenstone and greenschist are seen in river; exposures.

Follow-up included 1,2 km of gradient I.P. over these anomalous horizons. The results were negative and it is recommended the area be dropped.

C) Holmvasshøgda (Au, Cu). A gold copper soil anomaly up to 840 ppb Au and 450 ppm Cu striking paralell to grid profile 6+00 W between 3+50 S and 6+00 S was found to be coincident with generally northerly striking quartz boudins. Rock analysis of these quartz zones are as follows:

	Au (ppb)	Cu (ppm)	Zn (ppm)	Pb (ppm)
RX-Hol-3	65	3300	22	26
RX-Ho1-13	290	3400	130	16
RX-hol-14	140	780	21	28
RX-Hol-15	410	890	22	6
RX-Hol-16	140	150	9,5	4

Field work this year included 350 meters of dipole-dipole I.P. over the main Au, Cu soil and rock anomaly along with 1,5 km of gradient I.P. also over the zone and paralelling profiles to the east and west. Results were hard to interpret and were generally unresponsive to the mineralization. The area should be dropped.

Futur prospecting.

If work is to continue on the island of Ringvassøy, there are several anomalies that will require definition as to source and grade of mineralization. Besides locating these anomalous zones, the following will also suggest the best areas for prospecting and possible field signs for mineralization.

1) Leirbogdalen area

Map 1535 III, 1534 I (1 : 50.000)

Of interest here are strong stream sediment values of up to 1900 ppb Au and quartz vein samples up to 1500 ppb Au. Minor field work has been done here, although no surveys have included these anomalous zones. The rock types generally include mafic tuffs, amphibolites, chlorite schists, quartz biotite schists, and small sulphide rich felsic tuff horizons.

Stream sediments

Sample	239	UTM:	3109	Ε,	6794	N	74	ppb	Au
Sample	238	UTM:	3155	Ε,	6758	N	1900	ppb	Au
Sample	237	UTM:	3213	Ε,	6779	N	12	ppb	Au

Rock samples (Quartz veins).

Sample	Lbe-l	UTM:	3094	Ε,	6768	N	1500	ppb	Au,
							590	ppm	Cu
							71	ppm	As
Sample	Lbe-4	UTM:	3235	E,	6755	N	660	ppb	Au
							190	ppm	Cu

Sources of these results are thought to be northerly striking quartz veins, although the felsic tuff horizons should not be discarded. Overburden is shallow and covers about 70 % of the area, which may well have kept a mineralized horizon hidden from view.

2) <u>Sørdalshøgda Area</u>

Map 1534 I (1:50.000).

When prospecting here one must keep in mind three possible types of mineralization each distinctive by its geology and ore association. From results received, work should be on a priority basis. The following gives the characteristics of the possible types of mineralization.

- A) Au, Ag, Zn enriched volcanoclastic horizon
 - Rock samples include grades of 5,1 g/t Au, 9,0 g/t Au, 0,35 % Zn. No other element found.
 - Visible sphalerite zones are associated with strong mag hi.
 - Almandine garnet is a common marker horizon and ore zone constituent.
 - The host carbonate rich quartz chlorite schists are commonly highly weathered and rotten.
 - Any high zinc soil geochem may be used as a prospecting tool, regardless of its mobility comparative to gold and silver.
 - The true width of mineralization as found in drill holes $S \sigma r 2/84$, and $S \sigma r 4/84$ is approximately one meter, and two meters wide respectively.
- B) Au, Cu, Ag enriched quartz veins in close association with intrusive sill-like quartz diorite.
 - The host rock is most commonly a carbonate rich quartz chlorite schist.
 - Tetrahedrite is common associated and most probably carries the silver.
 - Gold is visible as small flakes and grains along fracture zones in highly weathered areas.
 - The quartz diorite is closely underlying the quartz veins.
 - Antimony would serve as a good geochemical indicator with tetrahedrite being present.
 - Copper is also present as malachite and chalcopyrite.
 - Quartz veins are commonly up to 0,5 meters in width and typically strike to the north or northwest.

- C) Au enriched quartz veins or boudins.
 - Host rocks are generally mafic volcanics, and amphibolite.
 - Veins are usually bull quartz with spotty sulphide stain.
 - Values up to 10 q/ton Au with no other associated element.
 - Strike of veins or boudins is generally north to northwesterly.
 - These mineralized zones lie stratigraphically under the other types of Au mineralizations, generally to the south.

Detailed mapping of the complate Sørdalshøgda area would be necessary to locate additional mineralized horizons. This area, by far, has proved to be the best area for possible ore deposits, although a close eye on whether the competion will drop their land in this area should be taken.

3) Russemoen and Karvikdalen.

Map 1534 I (1:50.000).

This area, located approximately 3,5 kilometers up the Karvikdalen valley at the southwest end of Skogsfjordvatnet, has potential for Zn, Pb and Au. The area differs from others by being located on anorthositic rich basement rock.

From the 1983 soil survey on the Russemoen grid, a Zn, Pb, Au anomaly was isolated but left open to the north. Prospecting during 1984 located mineralization off the grid in nearly outcrop along a stream bed. Possible fault breccias with Pb, Zn rich carbonated filled fractures are seen in close association with intrusive quartz diorite. Profile 2+00 N, B/L is centered at 2550 E, 5841 N with the base line running north south. Results for the soil surveys can be found with the box of maps. Approximately 1200 meters of I.P. were also performed on this grid although results were negative.

To encourage the situation a continuation of this mineralized zone appears to be exposed 1 kilometer up the valley from the 1984 grid center point. The outcrop is along a distinctive

stream valley including fault breccias, chlorite schists, and carbonate rich beds and veins with associated galena and sphalerite. Visual estimations are approximately 5 % Pb, 2 % Zn and the mineralization is exposed for almost 50 meters. We await rock samples from these zones and others down by the grid area.

4) Gold panning on Ringvassøy.

Old stories of prospectors finding gold on the island can be heard by many locals. An elderly local prospector by the name of Nils Raste has claimed to have found gold nuggets in creeks and streams on the island and after a conversation with the man a better idea of his localities may be pinpointed, if there is truth to them!

A) Up the Saltinbukta valley approximately 1,0 kilometer from the southeast side of Skogsfjordvatnet can be found small gravel diggings in the creek bed. Cut-crop surrounding the area has exposed rich quartz ankerite carbonate veining. Grab samples from these veins have returned values as follows:

Saltindbukta Grid (1983) Map 1534 I (1: 50.000)

Rocks L-7+30 S, 3+45 E - 210 ppb Au - < 4000 ppm Cu L-10+50 S, 3+3+ E - 98 ppb Au - 2800 ppm Cu

Stream sediment UTM: 3180 E - 5923 N - 140 ppb Au

B) Along the west side of Skogsfjordvatnet, especially near or around Nonsdagsdalen where many old Po, Py diggings are presently found. Mention of gold panning has also been made of this area. Our 1983 Langryggen grid did not isolate any anomalous horizons and we have yet to explain our excellent stream sediment values obtained in 1982. Values are as follows:

UTM: 2690 E, 6409 N - 500 ppb Au

UTM: 2698 E, 6357 N - 150 ppb Au

UTM: 2672 E, 6342 N - 240 ppb Au

UTM: 2724 E, 6298 N - 83 ppb Au

found on Map 1534 IV (1:50.000).

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DIAMOND DRILL LOG

							Direction	Directional surveys				
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				6.50	7,50	0.86		38	100.0	10	1.0	
05.	44.52	ANKERITE RICH CARBONATE QUARTZ	CHLORITE	9.20	10.20	130.0		22	140.0	10	1.0	
		HIST	tuff and flow)	11.00	12.00	0.071		54	110.0	11	1.0	•
		- Section is banded with	calcite and	12.00	13,00 110.0	110.0		26	110.0	7	1.0	
		ankerite, is dark green, gen	generally some flow	13.00	14.00	120.0		24	066	9	1.0	
		textures. Banded zones may reflect	tuffaceous	14,00	15.00	0.86		7.7	110.0	2	1.0	
		hinor e	n seen.	17.50	18,50	0.66		28	110.0	2	1.0	
		nkerite rich zones	found at 5.50-	18.50	19.50	130.0		28	120.0	<2	1.0	
		7.70 , 9.20 - 9.50 , 12.35	- 14.22 , 17.80 -	19, 50	20,50	160.0		20	120.0	2	0.5	*
		19.50 , 20.25 - 20.40 , 25.	50 - 25,70.	22,00	23.00	76.0		28	100.0	42	1.0	
		- Fracture fill zones	of carbonate	23.00	24.00	110.0		99	130.0	1	1.0	
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		21.65, 21.80, 23.85 - 24,05.	05. (possible	26.00	27.00	170.0		26	120.0	19	1.0	
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FOLLDAL VERK A/S

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FOLLDAL VERK A/S

٧ ₹ Assays ភ 2 Š ટ 70 Interval From fill of carbonate and pyrite. Found at 64.20 , breccia with fracture - Unit is generally dark green, massive highly chloritized. Fractures filled - Small enidote zones along fractures chloritized. Sharn contacts at 75° to CA SPOTITY somewhat (carbonate filled fractures) 64,65 MASSIVE MAPIC VOLCANIC FLOW No visible sulphide seen, - Smahl felsic type dyke Jontacts rich in carbonate. 64.50 and as small fragments. Fault zone (?) ith atz carbonate Description found at 64.40, to 65,10 E0H nd 73.40 ၉ I Henry Tolls 470 From

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FOLLDAL VERK A/S

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1.5 2.0 2.0 2.5 2.5 1.5 3.0 1.5 Ş 5.5 ppp 2 0 1.39% 1200 8 5 5 10 ₹ 120 0 4 2 0.02 % 0.02% 0.05% 0.02 % 0.02% 0.02% 0.02% 0.02 % 0.13% 0.04 % 0.02% %ភ 0.02% Assays 36 48 97 40 77 2 94 77 36 40 70 82 ş 220.0 51.10 52.10270.0 200.0 670 88.0 B4.10 120.0 ರ 50.50 31.30 120.0 2 10 53 10 110.0 55.10 120.0 36.10 110.0 28.50 29.50 110.0 57,10 110.0 29.50 30.50 110.0 шdd 24.50 25.50 25 50 26 50 27.50 28,50 To. Interval 3.10 5.10 26,50 27.50 34.10 6,10 From traces ı un to 4% Sp mixed with with garnets. Found 28.90 Small blade like 29.05 (up to 0.5% diss). Sphalerite zone ofand speckled at 18,55 Pb, Cp, Pyrite at Sulphide mostly pyrite, with minor ${ t from}$ but 32.05 96 COARSE GRAIN ANDESITE TO DACIFE FLOW Characterized by atz boudins with Light greenish, somewhat speckled 5% banded form) and at with garnet rich sediments and high bexture from plasioclase and quartz - 25,45 eddish mineral (?) in atz boudin. , with main zone 31.75 sphalerite. Zone from 25,20 Wo other sulphide seen. size. Contacts are gradual Incated at 31,50. Traces of On up to 1cm in Description at 24.25 - 25.35 strong at 25,33 25.63 t0 pyrrhotite. 18.36 (up 25.40 ninor. 18,75 ı 32.05 န Henry Tolls 4.4 51.13 Froa

FOLLDAL VERK A/S

٧ ₹ Assays å ş ဦ ဥ Interval From exture although it is usually massive. = Unit is dark green , some banded STICHTUY BANDED OFF CARRONATE RICH - An erite zones at 35,20,36,70 OUAPPY CAPRONAPP CULORIPS SCHIST racture fills of atz carbonate. MARTO VOLCANTO FLOW - No apparent sulphide seen. 75 74. Similar to 10.45 - 51.15 **°**0% 65 63 ANGLES TO CORE AXIS Slicht mar at 38.80 No sulphide seen. 10 meters Description = = = 20 96 017 50 EOH ı ı ı 38 05 64.90 64,90 ္ I Henry Tolls ave 38.95 32.05 From

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Sord.			Depth	1										
J 1	9+00 B	2+20 B		45.90) • P	cuttle	Interval		waa		 	→Assays [ppb p	mdd
From	٥			Description			From	ပ	3	Wo Wo	&	├ ┤-		Αĝ.
00.0	3.00	OVERBURDEN) EW											
5	α γ	A AUDINIA IN	DIRECTOR DIESERVED	· DINVE	-									
	1		+ - 4 00	11. 12. 12. 12. 12. 12. 12. 12. 12. 12.	אס סמים ליה יילמ	סינמפט ריזי מיטמיזי								
	`	1												
		_	ı	1	, redenie	יבי								
		somewhat	t layered.	Minor	fracture zones	of.				-				
		carbonate.	te.											
		- Base	altic dyke	Basaltic dyke with sharp contacts		at 45								
		to CA at	5.07 -	5.40										
		- Mafic	tuff	zones (?) are	small ,	and hold								
		fragments	0.f	carbonate reser	resembling a so	somewhat								
		fractured	tex	ïour	9	5								
8.33	22.80	HIGHLY		PEACEURED MAFIC VOLCANIC	CANIC		10.70	11.70	280.0		26	140.0	18	1.5
			ou)	spotty appe	anpearance)									
		Unit	t is dark	green,	somėwhat massive	ive.								
		although	h fracturing is	ing is evident	by	carbonate fill								
													.:	

FOLLDAL VERK A/S

0.5 0.5 0.5 DDM \$ ppp Ø 34 ₹ 79.0 82.0 110.0 → Assays ភ 16 26 22 2 ş 91.0 750 28.90 29.90 120.0 ррт ಽ 28.25 28.90 26.65 ဥ Interval 25.75 From fills of quarts and carbonate. Otz veining 11.45 . Bands are small and up to 2cm wide. 24.10 SPOTTY MATTC VOLCANTC FILOW TO SUB_VOLCANIC 24.90 to 25.05, 25.80 to with fracture 26.35 to 26.40 , 27.35 to 27.45 - Ots vein with ankerite boarders at 45 Banded sulphide of pyrite from 10.75 - Marnetite found at 28,40 to 28,45 and 28.55 to 28.85. Veins with spotty FRACTURED MAFIC VOLCANIC FLOW minor coarse grain mafic volcanic Quantity decreases down section. sulphide at approx 60 to CA. Similar to 5.00 to 8.33 Unit is olive green No visible sulphide. to CA . located at 16,03 similar to 3,00 to 8,33 Description is prominent at HIGHLY 26.00 ı 28.95 ဥ I Henry Tolls 476 22,80 24,10 From

2

PAGE 3

		FOLLDAL VEHK A/S		-							
From	Ę	Description	Interval				t	Assay.		-	ĺ
	2		From	٥	3	ş	2	5	7	ę Į	
28.95	30.05	FELATO (THE HORTZON (?)									
		- Highly siliceous , darkgrey to whitish									
		ev with fragments of labilli siz									
		ի] Թ գոյորիդնթ.									
		1									
30.05	42.15	FINE TO COARSE GRAIN SPOTTY MAFIC VOLCANIC									
		= Similar to 3.00 - 8.33 although texture									
		is somewhat more variable. Unit shows frac-									
		+1174 00 00 00 00 00 00 00 00 00 00 00 00 00									
		ole									
											-
42.15	43.90	MASSIVE BASALTIC FIOWS									
		- Dark to light green , massive texture .					,				
		and at times zon			•		125	`			
			·								
		- No visible sulphide.									
					•						
	43.90	EOH			-						
		ANGLES TO CORE AXIS									
		10 meters 75° 30 meters 80°	0								
Henry Tolls ave		ıı 0 †	-	•	_			_	_	-	

PAGE

							-				Oirection,	Directional surveys			
D.H. No.		1	Azimuth	()	Started	720 32	1/0/20	Ceoth	Azim	-	Dio.	Depth	ŧ	Azim.	
_ a.e.	4/8/4			(2)	Forta: F	- 1	†C			-			_		
орелу Sørdal	openy Sørdalshorda	1	Angle	6 0	Delle	July 24/	24/84			$\frac{1}{1}$					
o-ord.			Depth		Logged by	الــــــــــــــــــــــــــــــــــــ									_
-4+50	0 0+65N	N.S.	C	00.00			+	Interval					Assays P	ppb	mdd
From	٠			Description			<u></u>	From	10	3	Mo	Q	1.0	H	Ag
	, C	AUTHO	OVERPRIEDEN												
	0(•1	2	VI. CE 21.00												
0,50	15.90	FPIDC	TE STATIAN	EPIDOTE STAINED CARBONATE	BANDED	MAFIC									
		Λ	VOLCANIG T	TJ,OW (minor	felsic	and silic	icified								
				υ Φ	sections)		7	7.50 8	8.50	130.0		0 01	0.02 %	2	0.5
		- Unit	.⊣ .⊓	dark green with	alternating	ing light	·	17,50 12	12.50	130.0		18	0.02 %	7	1.0
		l C		epidote rich	1	especially	11y 12.	50	13.50	110.0		18	0.02 %	4	1.0
		along c	carbonate	layers. Tex	Texture shows	s a mixing	ng								
		feature	e , nemhans	flow	structure, Mi	Minor spotty	ty								
		sections	ns but these	se are limited		(sub-volcanic	2).								
		Unit is	s fractured with		carbonate fill	.									
		- Hi	Highly silicified	ified sections	ions similar to	ar to									
		auartz	quartz latite to	dacite,	Chloritized	throughout.	out.								
		These		located at 2	2.55, 2.70	2.90,			·	·					
		2.12	3 32, 13	13,80, 15,80-	15.95										
							•			•					

FOLLDAL VERK A/S

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1.0 ррт å 4 ppp ٩ 0.07 % %5 Assays 54 9 ş 23.70 190.0 PPm ઢ (ع) Interval 22.70 From 21.35 (lacking epidote stain, somewhat P showed. Lower contact is along garnet rich carbonate throughout. Lacks epidote stain with carbonate bands as the previous unit - Unit is dark green fractured bands of sections of banded pyrite along fractures grains or fragments. Located at 12.60 - 12.85 (Py - 12.90 (strong) CARBONATE RICH BANDED MAFIC VOLCANIC - Sulphide is disseminated Py. Minor habit as banded form and fracture fill at 19.10, and/or following possible tuffaceous approx 0.5% - 1.0% with magnetite.) Habit usually fine disseminated fracture fills almost flow like. tuffaceous looking) - Mag hi's at 21.35 (weak) (3) 12,60 zones Description 8.03, Tuffaceous almandine zone 22.10 - 22.25 Mag 23.70 ٩ I Mannitolle and 15.90 Froa

FOLLDAL VERK A/S

4.5 2.0 5.0 2.0 1.0 3.0 DDM 0. ₹ ~ 34 Ø 690 6 10 34 0.84% | 1600 0.87 % | 1300 ada 0.19 % 0.10 % 0.03 % 0.07 % 0.03% 0.04 % 0.07 % %**5** Assays 22 04 130 50 40 28 18 34 26 8 Š 100.0 100.0 55.50 246.0 86.50 250.0 29, 50 30, 50 260.0 47.0 120.0 33.50 360.0 54.50 200.0 ₩dd ಽ 87.50 27 50 32.50 88.50 70 Interval 55.50 55.50 52,50 30.50 51.50 56.50 54.50 7.50 From 29.9 34.50 and sphalerite. These Sulphide is very limited. Pyrite found rarnet or slimbtly un section from garnet. of fine biotite may reflect true - 22.40 (biotite (main mineralized zone) 35.15 Piotite rich sections commonly with 54.40 -1 Granet section commonly found with HITCH V RAMIND OWS CARRONAME CHLORIME arbonate layers, intermixed with dark 29.75 Unit is highly banded with quartz shloritic meen. Section shows spotty nnearance from rarnets (almandine). - Pelsic homisons located at 34.12 "armet sections at 22,70 22,10 33.65 narrite a T Description sediment horizons. ı disseminates 73,40 **MOTHOR** Zonel armetite 34.65 ncrease ound at JU 7 りょうしゅ ınd ຫ ໜ 0 ဥ 7.0 1 70 • Froa

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FOLLDAL VERK A/S

٧ ₹ Assays ភ 2 ş ಽ 59,40 69.00 75 J. Interval 40 68,00 58,40 From 74° Sulphide concentration : Main sphalerite zone from 35.15 - 36.10 (approx 2% but highl So with traces On and Py (small zone of 3cm) along with garnet rich zone at 35,15 - 36,10 , and 54.20 . No regular CA angle. Whole mineralized zone of Sp renerally from This horizon can represent a marker horizon OUARPY CARRONATE BANDED MAFIC VOLCANIC fracture fills at 34.15. At 34.15 up to 3% Contacts are ankerite Otz boudins or veins up to 3cm wide shows fracture fills of cts carbonate and Mag hi located at 35,25 may also be mood marker horizon with DDH Sar - 2/84 = Unit is dark green to grey black variable) Pyrite is main associate as nestble flow structures of carbonate for DDH Sar - 2/84 Description 77 LO - 36.40 31.00 rich at 83,60 ۵ | Straw Tolk 4.4 00.64 From

PAGE 4.

			Interval	le le				Assays			
From	و ا	. Description	From	To	ತ	ο¥	æ	ន	٦	9	1
		- Very minor epidote stain is seen. Unit									
		is renerally more massive than the previous							•		
		ow (?) unit. Shows only limited s							·		
		(Py) located at 58.8									
		. 68,20 (fracture fill Py									
		felsic horizon, and at 74.65 -									
		and disseminated Pv.					-				
											-
	09 28	HOE HOE									
		ANGLES TO CORE AXIS									
		10 meters 75 °				•					
		=			•						
		30 " RO°									
	,					-	·				
		FO "1		·	•						
									:		
		. 56 n 06		-	·		•				
		80 " 80									
Henry Toda 476	_										·

	_		-	-	Ag						-						7.0	1.0	1.0	1.0	7.5
	Azim.				Αn												4	6	13	80	13
	=		_	Accor	Zu												130	110.	170.	230.	320.
Directional surveys	Depth			1	Pb												18	20	20	26	24
Direction	Oip.				Mo																
	٠.		-	-	က												95.0	77.0	87.0	150.	120.
	Azim.			- - -	To												8.50	9.50	10.50	11.50	12.50
	Depth			-	From												7.50	8.50	9.50	10.50	11.50
Started	$160^{0}(177^{9})$ oct $20/84$	Finished Oct 23/84	Logged by	141.50 J. Cut+le	Description		canic flow.	dark green to blackish green unit, with	consistent texture throughout. Visibly spotted with	feldspar grow	mm diameter).	slightly fractured with quartz fill, with small	erratic martz veins at various angles to the C.A.	Lower contact is graditional and the unit loses its	appearance and takes on a banded form.	sulphide on magnetite concentrations.	Quartz carbonate chlorite schist (Highly banded alternating	lapilli tuff).	light greenish grey to dark green, highly	banded towards top where the section resembles a	tuff to carbonate chlorite quartz schist(7.75-
Appropriate	1_	Angle Sørda I shødda	Depth	L-4+50Ø.1+50N		Overburden	Spotty mafic volcanic	- Massive, dark	consistent tex	small creamy white	fills (up to 5	- Unit is slight	erratic diartz	Lower contact	speakled appea	- No visible sul	Quartz carbonate	felsic to mafic	- Unit is light	banded towards	felsic tuff to
	sør-5/84	Sørdal		L-4+50	To	2.60	7.75										31.60				
	2	Apado	escid.		From	0.00	2.60		1								7.75				

FOLLDAL VERK A/S

7.00 7. 1.5 7. 7. 7. 7. 0, 7.5 <mark>ر.</mark> ₹ Ö 75 8 Ŋ Ø ∞ 14 4 _ 4 ₹ 110. 280 230. 180. 140, 120 180, 270. 270, 320. 250, న 20 22 22 32 28 24 56 30 24 54 22 2 ŝ 77.0 9 110. 23.50 120. 120. 140. 15.50 110. 21.50 120 110 170, 3 20.50 13.50 14.50 16.50 22.50 19,50 17.50 18.50 ဥ Interval 14.50 20.50 21.50 22.50 13.50 15.50 12.50 8.50 9.50 16.50 7.50 From is more felsic tuff orientated. Banding is highly mafic component is dominant, while lower contact banded feature seen (may be similar unit to the (Lapilli tuff) becomes more mafic towards bottom, oxidized zones along quartz carbonate boarders. A faint previous 7.75-31.60, but highly fractured size - No visible sulphide seen, or magnetite located - No visible sulphide as layers or disseminates. of fragments vary up to 20 mm but in layered Quartz carbonate chlorite schist to fine mafic Top of section 21.45. fracture fills of quartz carbonate. Minor - Unit is light greenish grey with visible Quartz carbonate fracture filled andesitic DDH. Sør-5/84. Unit is fairly consustent throughout. volcanic tuff (?) (no felsic sections) 17.20, lapilli tuff (sections felsic rich) 8.10-12.70, banding seen not as frequently. - Unit similar to 7.75-31.60. Description Oxidized zones at No magnetite. form. 44.50 39.80 ٥ 31.60 39.80 Ę

PAGE

FOLLOAL VERK A/S

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120 110 160 Œ. 9 9 2 He 0.5 ٠. 5 0.5 ₹ ₹ S 3 α 67.0 160 120 Assays ន 12 56 20 2 3 _ α 3 As 5 Ø 3 76.30 77.30 78.30 79.30 79.30 79.80 Fault zone: 77.30 78.30 79.80 80.30 ္ Interval From banded with carbonate + quartz veins and fracture amounts - Fault breccia, including carbonate quartz fill, carbonate veins at inconsistent angles to C.A. Massive flow Unit is generally highly fractured, noteably - Dark green to greyish dark green erratically Epidote is common. Unit in light green to greenish grey, very 68.40 | Carbonate rich mafic volcanic flow (sections evident with associated quartz - Magnetite as disseminated form in trace pronounced and fragments are fine. fills in more tuffaceous zones. No visible sulphide or magnetite. - Compostion hand to determine possibly highly altered. Andesite (?) lapilli tuff (minor massive sections) - No visible sulphide Description looking tuffaceous). from 76,00-80,10. from 42.20-43.50. sections 80.10 ဥ 44.50 68.40 F

FOLLDAL VERK A/S

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₹ ₹ Assays ន 2 ŝ ઢ 2 Interval From Small black bladed amphibole within fault breccia - Dark green unit, highly banded with small layers Consistent texture throughout. Minor Matrix has Chlorite % is noticeably No other visible sulphide or magnetite located. Carbonate rich fine spotted mafic volcanic flow - Typical fine grain, dark green spotty mafic zone of massive basaltic flow found capping - Minor quartz boudins up to 5.0 cm, void of Quartz carbonate banded mafic lapilli tuff Sør-5/84 and fragments of quartz carbonate. No sulphide or magnetite located. DDH. Minor carbonate fracture fills. sulphide at 79.30-79.80. sequence at 89.30-89.80. (minor tuffaceous zones). ash tuff appearance. (possible hematite). Description (highly schistose). high throughout. volcanic. sulphide. 2 ı 89.30 104.30 ٥ 89.30 80.10 Fig

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FOLLDAL VERK A/S

₹ ₹ Assays ន 2 ŝ Շ 10 Interval From Unit is similar to 104.30-124.55 although massive - Unit is light green to whitish green with preva-At times spotty Spotted Andesitic to dacitic lapilli tuff (minor massive pyrite, traces Po. Occurd in banded form and Carbonate rich fine spotted mafic volcanic flow Sulphide located at 112.85-113.05, up to 2 % Minor fracture with carhonate fill seen. DDH. Sør-5/84. and tuffaceous sections highly mixed. No sulphide located, nor magnetite. texture is seen (up to 2.00 mm). at times seen as fracture fills. Andesitic to dacitic lapilli tuff. lent felsic content in places. No sulphide or magnetite. Similar to 89.30-104.30 textures non existant. No magnetite located. Description sections). E.O.H. 141.50 128.80 141.50 124.55 128.80 ္ 124.55 11 1-6 -104.30 FIG

PAGE

FOLLDAL VERK A/S

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₽ ₹ Assays ន 5 ş 3 ဥ Interval From DDH. Sør-5/84 Description 21.40 meters 75 $^{\rm o}$ 81.00 meters 65° 66.50 meters 77^o 113.00 meters 64^o 120.00 meters 68^o 131.00 meters 64^o 15.80 meters 77^o 43.00 meters 78^o 50.50 meters 78⁰ 94.50 meters 68⁰ 6.70 meters 74^o 34.00 meters 67^o Core angles: ٥ Ē

PAGE

OH. No.	-		Azimuth		Started					Direction	Directional surveys			
		5/84		$^{-}160^{0}(177^{9})$		Oct 24/84	Depth	Azim.	Ė	Olp.	Depth	ų.	Azim.	- -
Sperty			Angle	(Finished				_					-
	Sørda	Sørdalshøgda 🏻		– 55 ⁰		Oct 29/84						_ -		-
orerd.	-		Depth		Logged by									1
		L-3+750, $L-00N$		91.60 m		J. Cuttle			_					-
	5			Description			Interva	_ 1			-	Assays	-	
From	0			,			From	2	3	Mo	5 -	Zu	Αn	Α9
00.00	4.30	Overburden	len											
					·									
4.30	6.30	Quartz c	Quartz carbonate fracture	acture filled mafic	mafic volcanic	ic flow (?)	4.30	5.30	200•		50	120.	9	7.0
	t	(section	(sections highly tuffaceous)	ffaceous)			5.30	6.30	190•		16	140.	6	7.0
		- Unit i	is dark grey	green to	greyish green wh	where tuffaceous	6.30	6.80	76.0		22	120.	9	0.
		and so	somewhat fract	fractured.			6.80	7.80	140.		22	100.	9	1.5
		Banding	is	evident in tuffaceous	and not	found in more	7.80	8.80	0.96		16	160.	4	0.
		massive	re sections.	Lower contact	ct along 5 cm	ı quartz	8.80	9.80	86.0		20	250.	13	0.
		boundi	boundin horizon.				9.80	10.80	130.		28	460•	35	7.5
		- Sulphide	ide as Py in	disseminates	(up to 0,5	vol %) from	10.80	11.80	150.		24	480.	7	7.
		4.40-4.65.		No mag hi's.	·		11.80	12.80	160.		34	360.	15	7.5
		- Highly	, banded tuf	- Highly banded tuffaceous zones at 4.60-4.80	at 4.60-4.80	, and	12.80	13.80	67.0		30	260.	6	7.5
		5.45-5.65	5.65				13.80	14.80	0.66		22	250.	16	7.
6.80	22.30	Highly t	panded mafic	Highly banded mafic fine to medium grain	um grain lapilli	11i tuff	14.80	15.80	120.		30	180•	17	2.0
		(somewhat	at schistose)	(minor	felsic horizons).									
		- Slight	ly similar	Slightly similar to mineralized horizon in Sør-4/84	1 horizon in	Sør-4/84,								

FOLLDAL VERK A/S

Ş ₹ Assays ន 2 Š ઢ To Interval From - Unit is dark grey-green to green, texture similar fragments up to 2.0 cm, and composed of carbonate disseminates from 11.10-11.70 with highly banded to fracture filled volcanic flow, although frag-Lapilli Minor oxidized zones (reddish brown stain and at - Upper contact is felsic rich from 7.05-7.50 and approx same thickness and rock type except void Unit is highly quartz carbonate banded Carbonate rich mafic volcanic lapilli tuff (minbr minor quartz. Minir epidote stain towards top highly banded. Possible, marker horizon found ments seen of creamy white carbonate and very times has ankerite appearance as seen in Sørand No visible sulphide. Magnetite as small of biotite, garnet, extensive magnetite, generally grey greenish to light green. 2/84, 4/84) generally from 11.25-11.70. in previous holes Sør-2/84, Sør-4/84 Description DDH. SØr-6/84 with minor quartz. flow sections). pyrite. schist. 30.70 ٥ 22.30 Ē

AGE

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FOLLDAL VERK A/S

110. 160 180 120 110 120 270 170 160 140 140 14 710 70 10 <u>×</u> 9 30 20 9 2 0 2 2 0 9 #2 0.5 0.5 0. 0. 1.0 0.5 0. 0.0 0.0 0, 0. ₹ 9 ณ **V** 9 9 7 ∞ 5 9 S ∞ α ₹ 120. 110. 120. 110. 120. 110. 130. 160 86.0 130. 160. Assays ន 14 7 14 9 4 18 56 9 9 14 8 2 α N S S 2 S ~ ~ ~ ~ V ક્ર . Г 3 93 Ø ∞ 9 Ø 4 Q 3 3 ~ 99.99 67.00 68.00 72.0d 69.0d 70.0d 73.00 74.00 75.00 65.00 71.00zone 2 Interval 72.00 73.00 69.00 71.00 74.00 65.00 00.99 67.00 68.00 70.00 Fault 64.00 From quartz and - Light grey green unit, slightly carbonate banded, - Unit generally dark chloritic rich green, highly tured ground intermittently from 64.00-75.00 and felsic tuff at 47.85-48.05. Biotite (2) flakes. No visible fault breccia, although highly frac-Highly mixed massive mafic volcanic flow and tuff 2 banded at times and fragmented. Rhyolitic to small of unit along apparent fracture fills (?). 2.0 cm. No visible sulphide and only minor spotty Minor DDH. Sør-6/84 Py usually as yellowish carbonate boudins up to on magnetite. possible fracture fills. and fine grain tuff in texture. disseminated magnetite. Very minor sulphide as have been chloritized. Andesitic lapilli tuff. - No visible sulphide Description brecciated texture. No magnetite, 81.10-81.50 bands, 36.10 86.80 ္ . 4. 11 1-6. 30.70 36.10 Ę

PAGE

FOLLDAL VERK A/S

PAGE

270 260 200 1+ 20 9 HS 0.5 0. 0.5 ₽ Ġ 3 σ ₹ 98.0 100 110 Assays ន 7 72 14 2 ~ Ż ~ V AS 3 0 Ŋ 81,10 81.50 82.50 ဥ Interval 81.10 80,10 81.50 From volcanic. Includes minor carbonate veins and No epidote similar to overlying - Typical fine light to dark green spotty DDH. Sør-6/84 Spotty mafic volcanic tuff-flow (?) spotty volcanic in Sør-4/84 Angles to Core Axis: Description 17.50 meters 70° 45.00 meters 48^o 66.00 meters 65^o 86.00 meters 70^o 35.00 meters 60° 78.00 meters 77^o $5.50 \text{ meters } 78^{\text{O}}$ 9.50 meters 75^o 25.20 meters 68^o fragments. E-O-H 91.60 9.60 ۵ 86.80 F

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				Papers					Direction	Directional surveys			
0 H. No.	\ 	Azimuth Azimuth	1600 (1779)		7 79/84	Depth	Azim.	-	Dip.	Depth	Jth Jth	Azim.	-
Apado.	Sørč	Sørdalshøgda	S 09 -	Finished	Oct 30/84								
Corord.		L-3+75 Ø,	43.60	Logged by	J. Cuttle								
	F	9,55 N				Interval	la				Assays		
From	To		Description	ر		From	To	ว	Mo	Pb	Zn	Αn	Ag
0,00	6,10	Overburden											
			·										
6.10	14.30	Carbonate ric	Carbonate rich mafic volcanic flow	low		10.00	11.00	120.		18	150.	9	0.
	t	(minor tuff a	and hackley texture)										
			יייייייייייייייייייייייייייייייייייייי										
		- Unit in dark	green to grey	green, includes c	carbonate				-				
		as small la	layers in only a few places.		"Hackley" texture								
		from 11.35	- 11.90 including o	only carbonate.		·							
		- Minor sulph	Minor sulphide as py in disseminates with unknown	minates with un	known								
		reddish mineral	at 10.45 (at	$45^{\rm O}$ to C.A.) and	ld 15.75.								1
		Reddish mineral	(hematite,	zincite ??). Sma	Small py								
		layers with	with minor magnetite ap	approx. 1 cm wide	le at 10.45.								
		- Sections th	that are banded and t	and tuffaceous are	are small.								
14.30	30.00	Banded felsic	Banded felsic to mafic lapilli	tuff		14.30	15.30	110.		8	140.	2	1.0
		(highly schistose	stose towards top)			15.30	16.30	120.		56	160.	6	1.5
		- Unit is gre	greenish to greyish green,	includes	an	16.30	17.30	140•		20	140.	2	1.0
		adternating felsic		to more mafic tuffaceous	series	17.30	18.30	210.		56	140.	715	1.0

FOLLDAL VERK A/S

190, 250 180 圧 9 10 9 HP 2.0 7.5 7.0 ~ -~ ~ 0.0 000 7.0 AB Ŷ 7 9 4 12 Au ₹ 180 160 150 190 160 66 **190** 160. 170 120 180 Assays Znన 56 22 24 Pb 2 ŝ K ≥ 130. 160. 130. 210. 110. 100 110. 180 As 140, ઢ 9 4 Q 27.30 28.30 29.30 23.30 24.30 25.30 26.30 20.30 18.30 19.30 22.30 30 29.30 |30.30 32,30 Fault Zone ဥ 31 Interval 24.30 25.30 26.30 19.30 23.30 न्न 30,30 20,30 28.30 21.30 From 7 qenerally massive at times minor spotty... texture 31.60-31.72 ? Dark green unit, minor carbonate fracture fill Possible 25.25-25.35)\ horizons 16.10 -18.80(unit 30.00 - 39.20 becomming more tuffaceous Unknown reddish mineral in carbonate vein at towards bottom, Highly banded in more felsic Dark green unit, highly carbonate banded in marker Minor sections of massive mafic flow at places at top 14.40 - 14.70 and 18.25 (minor fracturing with carbonate fill) 30.80, Very minor oxidized zones at 18.25, as Sør-7/84 24.73 No visible sulphide or mag hi's. 30.15, Banded mafic volcanic flow-tuff to C.A. Sulphide and magnetite at HCC 16.70 and 21.10 - 21.45. Minor gouge at 30.00 -Biotite zones at 24.90 disseminates in quartz - 33.90 at 10⁰ Description Mafic volcanic flow 27.90 and 28.15 places. 33.60 43.60 39,20 ဥ 39.20 30.00

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Ş ₹ Assays ន 9 ş 3 ٤ Interval From Sør-6/84 at 47.85-48.05. Found at 40.40-40.85 possible replacement of biotite. Similar to Felsic horizon (rhyolitic) with chlorite as DDH. Sør-7/84 - No sulphide or mag hi's. Description Angles to Core axis 15.50 Meters 70^o 40.00 Meters 68^o 28.00 Meters 75^o $7.30~\mathrm{Meters}~60^{\mathrm{o}}$ and 41.75-42.00 E.O.H. 43.60 ္ Ę

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Assays Cu Mo Pb Zn	g	g				Assays	Assays	Assays	Assays	Zn	Assays	Zn Zn	Skess
	Mo												4
	3												
From To	zone		200		Tones Zones 7.15 8.15 13.65 14.80	To T	Tones Zones 7.15 8.15 13.65 14.80 31.50	To T	From To From To Fault zones 6.15 7.15 7.15 8.15 13.00 13.65 14.20 14.80 30.50 31.50 31.50 32.50	From To From To Fault zones 6.15 7.15 7.15 8.15 13.00 13.65 14.20 14.80 30.50 31.50 31.50 32.50	From To From To Fault zones 6.15 7.15 7.15 8.15 13.00 13.65 14.20 14.80 30.50 31.50 31.50 32.50 39.00 39.50	From To From To Fault zones 6.15 7.15 7.15 8.15 13.00 13.65 14.20 14.80 30.50 31.50 31.50 32.50 39.00 39.50	From To From To Fault zones 6.15 7.15 7.15 8.15 13.00 13.65 14.20 14.80 30.50 31.50 31.50 32.50 39.00 39.50
Description	Description Carbonate banded andesitic to dacitic lapilli tuff	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows)	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes.	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein),	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge),32.10-32.40 (strong in fault).	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00 generally hi mag background.
3.90 Faul	Carbonate banded andesitic to dacitic lapilli tuff	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows)	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes.	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein),	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge),32.10-32.40 (strong in fault),	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00	Carbonate banded andesitic to dacitic lapilli tuff (sections highly schistose with minor mafic flows) - Unit is greyish green, highly banded and fracture filled with carbonate and minor quartz. Lapilli size highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or oxidized) zones with carbonate. Similar to mineralized horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge),32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00 generally hi mag background.
1	Fault Carbonate banded andesitic to dacitic lapilli tuff 6.15	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or 30.50	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or soxidized) zones with carbonate. Similar to mineralized 31.50	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to fault zone), mafic tuff with similar ankerite (or soxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes.	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 16.00) fault zone), mafic tuff with similar ankerite (or 16.00) oxidized) zones with carbonate. Similar to mineralized 13.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 caidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein),	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 cxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault),	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 16.00) fault zone), mafic tuff with similar ankerite (or 16.00) oxidized) zones with carbonate. Similar to mineralized 11.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 27.40-27.90 (small fault), 50.40-50.90, below 60.00	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00 generally hi mag background.
	andesitic to dacitic lapilli tuff 6.15	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes.	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein),	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), (fault), 7.30-8.00 (small gouge), 32.10-32.40 (strong in fault),	Carbonate banded andesitic to dacitic lapilli tuff 6.15 (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 fault zone), mafic tuff with similar ankerite (or 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00	Carbonate banded andesitic to dacitic lapilli tuff (6.15) (sections highly schistose with minor mafic flows) 7.15 - Unit is greyish green, highly banded and fracture 13.00 filled with carbonate and minor quartz. Lapilli size 14.20 highly variable (5 mm-15 mm). From 3.90-6.15 (to 30.50 oxidized) zones with carbonate. Similar to mineralized 31.50 horizon in previous holes. - Magnetite zones at 4.70-5.00 (with oxidized zones), 6.90 39.00 (fault), 7.30-8.00 (fault), 19.10 (in carbonate vein), 27.40-27.90 (small gouge), 32.10-32.40 (strong in fault), 39.10-30.40 (weak in fault), 50.40-50.90, below 60.00 generally hi mag background.

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٥ ₹ Assays న 2 ŝ ច 10 Interval From rhyodacitic towards bottom of the hole from 84.10zone), 13.40-13.75 (minor), 14.35-14.75 (minor), green, mafic, and similar to other spotty mafic with high % of epidote on hanging wall), 39.15-Fault zones generally at 6.15-8.90 (main gouge Similar to 3.90-67.20, becoming more dacitic to Dark 17.15-17.40 (minor), 31.30-31.55 (major fault - Typical fine grained sub-volcanic unit. Contact are not sharp. DDH. Sør-8/84 9.00 Meters 50) fault zone - Minor qtz carbonate veins - No sulphide or mag hi's No sulphide or mag hi's Spotty mafic volcanic 39.40 (minor gouge) Description volcanic zones. 5.00 Meters 76^o Core angles, 88.70 E.O.H. 88.70 88.70 70.40 ္ 67.20 70.40 Ē

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٧٥ ٧٢ Assays ន 2 Š ខ ç Interval From * Sections split here are to determine fault zone DDH. Sør-8/84 20.00 Meters 15°) fault zone Description mineralization. 40.00 Meters 40⁰ 52.00 Meters 80^o 60.00 Meters 70⁰ 84.00 Meters 72^o 29.00 Meters 55^o 76.00 Meters 65^o ္

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₽ ₹ Assays న 9 ŝ 3 30.70 21.70 18,10 25.70 25.70 | 26.70 26.70 | 27.70 28.70 29.70 19.10 20.70 22.70 23.70 24.70 19,70 17.10 10 Interval 27 70 28.70 22.70 23.70 24.70 20.70 29.70 18.10 19.70 16.10 19,10 21.70 17,10 From Light greyish green to grey, not highly schistose (bands), 8.85-9.85 (strong), 11.70-11.80, 12.50-34.85-Sp commonly 10 % Sp), 12.60-12.95 (1 % less Sp, py), 19.40fracture fills with py) usually associated with Correlation with garnet and disseminates, fracture fills and massive bands Sp at 10.05 (1 cm band small disseminated bands (minor - Sulphide as pyrite and sphalerite. Pyrite as 19.60 (1 % Sp, tr py). Pyrite from scattered somewhat fracture filled with carbonate and 29.40 Rarely massive. 28.30, Minor gouge at 14.80, 15.40-15.80 Description DDH. SØr-9/84 though section from 3.70-20.00. Minor qtz veins/boudins at Mafic to intermediate tuff with felsic horizons. 35.10 (minor rust) 14.10, 21.65 weak. (minor massive flow) carbonate layers. Sphalerite as minor quartz. felsic zones, (< 0.5 cm). 59.30 ္ 40.80 . 11 1. F

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Ş ₹ Assays ន 9 Š 3 To Interval From - Mag hi at 41.30 - 42.00 (strong), 45.85. DDh. Sør-9/84 Usually as disseminates. - No visible sulphide Description 6.50 meters 85⁰ 20.00 meters 68^o 30.00 meters 75^o 40.00 meters 65^o 50.00 meters 65^o $12.50 \text{ meters } 78^{\text{O}}$ Core axis angles E.O.H. 59.30 ္ . ** 11 1.6 Ę

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. D. H. No.			Azimuth	J. O G.	Started				5	Et, ional su	262	6:4	
	Sør-10/84	0/84		160~(1773)		Nov 3/84	Depth	Azim.	Oip.	1	Depth	AZIM.	- -
торену			Angle		Finished								-
	Sørda	Sørdalshøgda		-50 _S		Nov 7/84							-
∑o∙ord.	-		Depth	()	Logged by								
	P-3+00Ø.	00. 4+00N		65.00 m		חי המרודב	layatal				Assays		
From	5			Description	-		From	To	Cu Mo	P _O	H	Ϋ́	Ag
00,00	3.00	Overburden	.den										
				·									
9	00	0.0+:+0	C Griph fine	Distita rich fine main intractive tonalite to diorite	- tonalite to	diorite							
00.00	00.0	- Light	mey to drev black.	r bläck, spotte	spotted with small	l biotite							
		f.ja.kes	s. Texture i		and void of								
		- Dissen	minated mag t	Disseminated mag throughout unit	and	strøng response.							
		- No su	No sulphide										
		- Lower	contact is k	Lower contact is biotiterich (?)	and sharp	at							
		appro	approximately 45°	to C.A.									1
5.80	8.80	Amphibo	le rich mafic	Amphibole rich mafic volcanic flow (minor tuffaceous	w (minor tuf	faceous							
		sections.	s.										
		- Unit	- Unit is dark green, mafic,		and generally spotted with	otted with							
		amphi	amphiboles throughout.	hout. Matrix is	is fine basalt	lt in nature.							
		- Minor	Minor quartz carbonate veins	onate veins									
		- No su	sulphide										
						•				-			

PAGE

₹ ₹ Assays ន 2 Š ઢ ဥ Interval From - Unit is greenish grey, highly variable, somewhat Minor FOLLDAL VERK A/S - Minor iron stain towards top of unit from 57.00 felsic comp. at upper contact to mafic at end carbonate rich tuff (sections somewhat banded) - Unit almost schisty in places, grading from Highly banded intermixed mafic/felsic lapilli fracture filled with carbonate + quartz. Alternating mafic and intermediate quartz iron stain at 45.50-45.80, 50.50-50.70. DDH. Sør-10/84 No visible sulphide or mag hi's. - No sulphide or mag hi's. Description 10.50 Meters 78^o 29.00 Maters 76^o $39.00 \text{ Maters } 68^{\text{O}}$ Core Angles of hole. -59.00. E.O.H. tuff. 65.00 56.40 65.00 ္င 56.40 For

PAGE ٧ ₹ Assays Zn P Š ج To Interval From FOLLD4L VERK A/S DDH. Sør-10/84 Description 50.00 Maters 82^o 60,00 Meters 74^o ္ . . . 11 1.4 Ē

	Ц			Ц		ş	T													L		
	Azim.				qdd	Αυ	140	16	17	14	12	20	14	6	12	21	13	12	13	13	13	
	=				Assays	+	72.0	34.0	0.07	37.0	36.0	37.0	30.0	27.0	31.0	32.0	25.0	27.0	26.0	26.0	29.0	
Syevens leadings	Depth					8	10	8	10	01	10	8	8	90	8	10	10	10	10	10	8	
Sei torsio	Dip.					As	5.4	7.3	5.6	9.0	8.0	2.8	1.0	3.3	7.0	4.6	7.0	12.0	13.0	6.8	12.C	
	ë				maa -	3	240.0	270.0	290.0	320.0	370.0	350.0	290.0	280.0	240.0	320.0	230.0	170.0	240.0	260.0	170.0	
	Azim.		-		16	To	00•	10.00	11.00	12.00	15.00	14,00	15.00	16.00	17,00	18,00	19,00	20,00	21,00	22,00	23.00	
	Depth				Interval	From	8,00	00°6	10,00	11.00	12,00	13.00	14.00	15.00	16.00	17.00	18,00	19,00	20.00	21.00	22.00	
FOLLUAL VENN X/3	Azimuth Jan Started July 28/84.	Finished	4.5	Depth	T09n0 •0	Description	No Republication of the second		CHIPPOTE TOUTHOUSE VEHICLES	flows)	- Unit is characteristic dark green to black	d, and somewhat spott	- Winor av (no carbonate) located at 9.40	22.35 at 00 to CA . Winor Po and trace	in quartz vein.	- Sulphide as disseminates of Po . Co . and	rom anprox 8.00 - 29.00 . Copper values	himh.		STIGHTY BANDED TO MASSIVE BASALT	(supears to be silicified)	
	1/8/1	#C	Leirbogdalen			To	7.50		011	4										60.40		
	D.H. No.	The TT.	relrbc	ord.	5	From	00.00		N N											118,50		

FOLLDAL VERK A/S

₽ 35 75 2 ppp 8 5 25 15 8 15 ₹ 10 14 24 15 2 20 16 13 58.0 29.0 32.0 2500 930 260 1000 230 31.0 850 2300 430 110 350 40.0 41.0 1500 120 Assays ភ 18 16 18 16 10 18 12 2 10 14 10 8 10 9 16 14 8 2 8 60.0 29.0 21.0 62.0 56.0 59.0 530 790.0 >1000 430 12.0 4.0 280 4.3 160 · 3.0 3.3 170.0 360 As 400.0 230.0 51.50 52.50 370.0 27.50 360.0 77.0 300.0 52.50 53.50 460.0 69.0 190.0 290.0 220.0 223.0 54.50 390.0 57,50 180.0 280.0 64.50 65.50 230.0 шдд 3 69.50 58.50 69.50 70.50 72.50 \$5.50 56.50 26.00 27.00 50.50 51.50 27.00 28.00 25.00 26.00 00.65 59.50 50.50 56.40 25.00 ဥ Interval 68,50 70,50 71.50 63.50 70.15 = 65.50 28,00 Winer Po, Sp, and Cp through rest of \$7.50 24.00 55,40 From cherty horizons as layers and fragments (?) Traces of Py. Pyrrhotite sections Sulphide up to 40% po, with minor Cp throughout. Sections are spotted, similar Unit is black, compact, massive, and andesitic flow in middle Small visible sulphide section from 2 mm found as banded pyrrhotite throughout. Minor DYPRHOWIMS RICH BLACK ARGILLIME amphiholite but these are limited. 67,62 - 69,30 minor quartz veins (1 -55 45 - 65 80 (Po and Ch section Description 60,40 - 61,90 (minor and Sr . 05.05 init, with 0.1 70,30 ဥ | Hemor Toda ave CO. 40 Froa

PAGE 2.

FOLLDAL VERK A/S

PAGE 3.

\$ ppp₹ -> Assays ន 71 8 16 2.3 AS 100.0 bpm. 3 84.00 85.00 2 Interval From quartz carbonate bands, erratic in formation matrix. Quartz carbonate as fill. Garnets Unit is striped grey/white with mafic Dark green unit, mafic, sometimes showing possible flow structures. Minor are seen up to 2cm in diameter. Highly INTERMEDIATE TUFF ANDESITIC FLOWS AND TUFFS HIGHLY BANDED MAFIC TO ANGLES TO CORE AXIS Traces of Po and Cp (next page) chloritic in places. Minor garnet sones Description FOH 134.60 134,60 119.30 ۵ 119.30 I Henry Tolls 476 70.30 Froa

FOLLDAL VERK A/S

٧ ¥ Assays Zn 8 ş 3 J. Interval From 9 45 45 ر ا 4.5 65 d 41.5 ٠. ç. ç. 10 meters Description = = = = = = = Ξ = = 7.00 100 110 130 50 C_{Γ} Oα 0 C_{i} 02 မှ I Henry Toda 476 From

PAGE 4.

PAGE

DIAMOND DRILL LOG

Ag Azin. Ø 8 2> m ppp Ā <2> 42 63 Assays 190 130 210 63 110 120 Z Depth Directional surveys Ø Ø 26 16 14 14 2 4 Б 280.0 30.0 8.2 64.0 13.0 46.0 23.0 38.0 25.0 g Ö AS 240.0 150.0 85.0 45.0 120.0 38.0 51.0 53.0 81.0 шдд ಪ Azin. 10.10 12,10 13,10 11.10 4.80 5.80 8,10 9.10 .80 ၀ Interval 10.10 12,10 17.10 Depth From B.80 B.10 10 4.80 7.10 2,80 is himhly variable in texture, with revish chert to siliceous grain amphibole lathed 29/84 30/84 areas of Cuartz veining is small usually Cuttle ე დ With ARGILLIUE July рv CHERTY SECTIONS Logged by Sections solit are meneral sulphide except Finished Started isseminates in trace amounts Description minus biotite, ontaining white carbonate STUDINGNO HODIZON 84.60 rgillite into coarse lternating bands of 333 GAPITHMS ال ال rgillaceous rocks, No visible OVERBUPDEN Azimuth Unit Angle Depth ich rock 5+75N <u>reirbogda</u>len 24 85 S 2.80 Leir- 2/84 ၉ 1+50 2.80 00.0 D.H. No. From roperty Sord.

FOLLDAL VERK A/S

٧ qdd~ J J ₹ 110 140 110 Assays 87 ន £ 12 14 12 12 0.9 1.1 9.0 0.8 AS 360.0 140.0 160.0 120.0 ррт రె 53.80 54.80 50.80 51.80 52.80 53.80 ဥ Interval 51.80 52,80 From section texture gives siliceous appearance. Unit is grey to white grey, slightly . HIGHLY SILICEOUS GREY CHERTY HORIZON Py and trace Cp. , snotty annearance in , except for quartz carbonate layers. Towards top of Sulphide in small isolated zones 58.60 at 40 to CA: handed and includes minor Po at 51.15 includes small biotite zones. No visible sulphide throughout. HIGHLY BANDED CALCAREOUS MAFIC (minor tuffaceous zones) RANDED MATIC VOLCANIC FLOW Dark green , massive inor sulrhide stain in av VOLCANIC 52.70 . Includes Po Ov at 58.35 -Description Dark green Jaces a t 62,50 F2.05 50,80 ဥ I Henry Tolls 4.4 52.05 50,80 24.85 Froa

PAGE 2.

FOLLDAL VERK A/S

PAGE 3.

2 42 76 ppp ₹ Assays 150 340 230 ភ 9 P. 8 Ø 13.0 2.3 62.50 63.59 120.0 1000 As 86.0 92.0 ខ шда 63.50 64.50 64.50 65.50 ٩ Interval From Banded dark grey/black with whitish grey siliceous horizons. Minor sulphide Possible fault zone from 80.00 -. dark preen with minor gtz Py and Po but only found in traces. RIOTITE RICH OUARTZITIC HORIZON 82,60 with minor Py along fractures. - No visible sulphide SPOTTY AMPHIBOLITH Description carbonate veins Hard HOH 1 ಛ 84,60 84,60 64.65 ဥ | Henry Tolls 440 64.65 62.50 From

		FOLLDAL VERK A/S								
2						Direction	Directional surveys	-	Azim	L
ab I	1/84	14.5	Depth	Azim.	- -	Olp.	Dept			_
perty	1 1	Angle Finished July 25/84								
S.D.L.C.	1	Depth Logged by T C:++1						- -		
1	10+50 B	3+50N 102.97 0. Uutte	Interval	lal	maa			≯Assays	pp p	БРТ
From	<u>و</u>	Description	From	To	S	Mo	Pb	Zu	Αu	Ag
00.0	3,00	OVERBURD FIN								
1	0	SIMITIOARA OD HAARDOWYGLA GENIYOF GRITA	3.00	00*+,	4.0		12	71	2	<0.5
0000	5 22	VOLCANTC	4.00	2.00	2.5	·	14	79	42	< 0.5
		+	2.00	9°°9	2.0		14	90	2	<0.5
		and shows minor atz veining. Sericitic	6.00	00*4	100.0		14	130	17	0.5
		out with minor amounts of chlori	00.7	8,00	120.0		18	110	6	1.0
		fractures		00 6	140.0		18	190	45	1.0
		- Minor section of mafic tuff from 6.60	9.00	10,00	24.0		12	81	7	0.5
		9.50	10.00	11.00	1.5		12	42	42	< 0.5
		1 1	11.00	12,00	1.0		12	20	5	<0.5
		and in matrix (traces). Mative copper (?) as	12,00	13.00	70.0		20	170	3	1.0
		ture rrowths in den	13.00	14,00	50.0		22	190	7	1.0
		located at 9.30 - 11.00 . Unknown cubic silvery	14.00	15.00	58.0		8	8.5	5	<0.5
		mineral in ton of unit generally with Py zone								
		at 3.00 - 6.60.								

FOLLDAL VERK A/S

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PAGE

0. 1.0 <0.5 <0.5 1.0 DDm 8 20 ppp <2> 6 15 ₹ 4.0 140 100 → Assays 190 ភ 20 20 18 9 4 8 æ 15.0 26.0 42.0 10.0 47 10 48 10 140.0 ррт ខ 48.10 49.10 46.10 47.10 49.10 50.10 45,10 5.10 46.10 ဥ Interval 4.10 From found along fractures. Contacts of unit are Unit is preyish to preen grey, highly sharp at top and bottom , approx 60° to CA. Q STITCIPIED ANDESTEIG TO DACIFIC FLOW lowards lower contact k-snar staining is snotted with ctz eyes up to umm in size. and is slightly banded from layers of otz carbonate. (limited) Unit is light green to pale green, - Minor sulphide in av at 22.65 and Sulphide found as pyrite only in 31 65 as small stringers of Po and Cp. LYE VELDSPAR disseminates as trace amounts No apparent mag hi's STRETCIME BICH OWS INTRUSIVE Description massive in form. 2+ 55 to CA: 09 97 444.07 ဥ | Strave Tolls 476 5 12,00 From

FOLLDAL VERK A/S

PAGE 3

ррт 1.0 1.0 ₹ DDD Va 23 11 Assays 100 100 92 ន 9 22 18 18 Š 85.0 62.0 71.00 |72.00 210.0 3 шдд 72,00 73,00 73.00 74.00 70 Interval From - Minor flow basalt textures but these Unit is highly variable in texture. sones. Ots carbonate is evident throughout including minor quartz veins up to 3cm in Sections become amphibolitic looking size. Veins are unmineralized and at 60° handing is prominent with dark biotitic Py in av at 100.65 with trace Cp Massive , whitish to dark green, Winor specks of pyrite as bands STORTHOWN REGAINS YMPHTBOTTTHE as small bondins and avis пант ЭТФ М Description and disseminates. 77,55 - 05.99 FOH are rare. to CA at 102,95 102,05 87.10 ဥ Henry Tolls 476 R7.10 76,60 From

					Potreio					Directions	Directional surveys			
D.H. No.	1784		Azimuth	780		July 26/84	Depth	Azim.		Oip.	Depth	-	Azim.	1
roperty			Angle	450	Finished	July 27/84								
Hørda Sord.	-		Depth		1 1	١ _								
١. ا	9+00 V 2-	2+35 S		104.70		o Tonno	Lexatel	_ _	- WOW		Į v.́	Assays 6	dag	
From	To			Description			From	To	Z	Mo	8	H	Αu	P ₃
00.00	6.20	OVER	OVERBURDER											
6.20	6.65	TABS	SERICIPS RICH	FILSIC	CHERTY TUFF									
			٠ ۲٠٠٠ + • د ۱۲	+	4	sometrib a								
			and	s small ninkv	our	of								
		probab1	e k-spar	ections	.H &	spotted with								
		black,		lathy unknown	mine	•								
		1	No sulmbide	de seen.										
U U	70 00	T A	THOUTON CENTRAL	CHAIN MARTC	OT RMO,TH DITE	हमसाम 0	12.30	13.20	0.09		12	43	12	
	•	П	1!	green	rownish		13.20	14.20	91.0		12	09	12	
		highly	band	th biotite	in more se	sediment	14, 20	15.20	59.0		18	92	10	
		originated	ated areas,	and has	small inter	intersectin $arepsilon$	18.50	19.50	40.0		16	99	14	
		otz car	carbonate ve	veinlets thro	throughout.									
		j		sections	nt	more so	·							
		down se	section from	16, 10, ±0	18.05	•			•					
			•	00.01										

FOLLDAL VERK A/S

\$ m 0 ppp ₹ 62 A88878 65 ភ 2 12 2 ş 68.0 19.90 20.70 130.0 -mdd ខ 20.70 21.70 ٩ Interval From and carbonate layers. Minor sericitic layers TICTLY SILICIPIED BANDED ANDESIGIE FLOW Biotite rich sections located at 14.00 - Unit is light green to greyish where silicified, banded with fine epidote, qtz where more felsic in annearance. Upper and Sulphide located at 12,35 - 13,10 as small disseminates of Py. Also at 13.90 -14.50 , and 18.50 - 19.35 . These are all Gmall felsic enidote rich zone at in close association with biotite rich 20.30 (Py 41%) ower contacts are sharn at 75° to CA Sulphide at 20.05 to 14.50 , 18.45 to 19.70 No mag indication Description 20.30 0°00 Preas i 22 30 ၉ | Himse Tolls 4.4 19 70 Froa

PAGE 2.

B

PAGE

FOLLDAL VERK A/S

₽ æ Ø Ø ppp₹ 22 52 4 42 39 28 -> Assays 54 48 52 ន 110 31 30 1,4 B 20 12 2 14 9 B Mo 7.90.0 160.0 70.0 37,5¢ 160.0 430.0 91.0 150.0 mdd ភ 24.30 24.35,1000 45.80 43.30 44.30 23.30 24.30 24 75 25 75 hirhly banded with with sericite . chlorite 25.75 26.75 ဥ Interval 12.30 but. 43.30 44.30 56,50 From 5.40 - 45,55 (40% Po, 1% Cp, in qv at 20° to CA) Culphide content more pronounced at top <u>ಇ</u> and nyrrhotite. Siliceous sections through-42.50(5% Po), 43.50 - 43.85 (15% Po), and 23 30 - 23 75) and bottom (24 55 - 24 90) Po up to 46% with traces of Cp and Py. Unit out similer to elongated cherty fragments. Sulphide (banded and diss) located MAPTIC TO INTIPRMEDIATE VOLCANIC FLOWS Quartz vein section with minor Po Unit is limbt preen to white/grey. shootback PYPPHOMIME RICH CHICRIME SERICIME (sections cherty) 22,30 (minor tuffaceous zones) at 15°to CA at 37.00 - 37.10 coincides with first mag and Unit similar to 19.70 not as highly silicified PETSIC TUPE Description conductors. 1 ÷ 50.05 06.49 ဥ 23.30 06.44 From

| Hinry Tolls 4.4

FOLLDAL VERK A/S

PAGE 4.

₹ q dd₹ J 16 В 34 → Assays 48 33 84 54 ន 10 10 2 12 14 14 Š 60.0 74.0 51.60 52.6d 590.0 4 70.0 3 ppm. 81.65 50.10 51.10 54 40 54 6d Slumn structures (?) visible with sericitic 52.60 53.60 ဥ Interval 81.15 From although mineralization is much more prominent. Section shows very 1 76.80 (barren) and 81.35 - 81.55 (minor Po) and cherty fragments usually in massive Po Again cycle of sulphide close to upper and somewhat banded with minor nymite and traces chalcopyrite. lower contacts. Heavy Po content at 50.10 PYPTHEMINE TOH SERICIMIC PELSIC MIEE sections banded and cherty) Sulphide is dominantly pyrrhotite 51.65 - 52.20 (40% Po. trace Py and Cp) Unit is similar to 25.30 - 24.90 50.70 (30% Po, 5% Py, trace Cp) and at Otz boudins or veins from 76.55 with off carbonate veins. MARIC VOLCANIC FLOW Unit is dark green ninor zones of biotite. Description ı zones. 81.35 30 ۵ 50 52.30 50.05 Froa

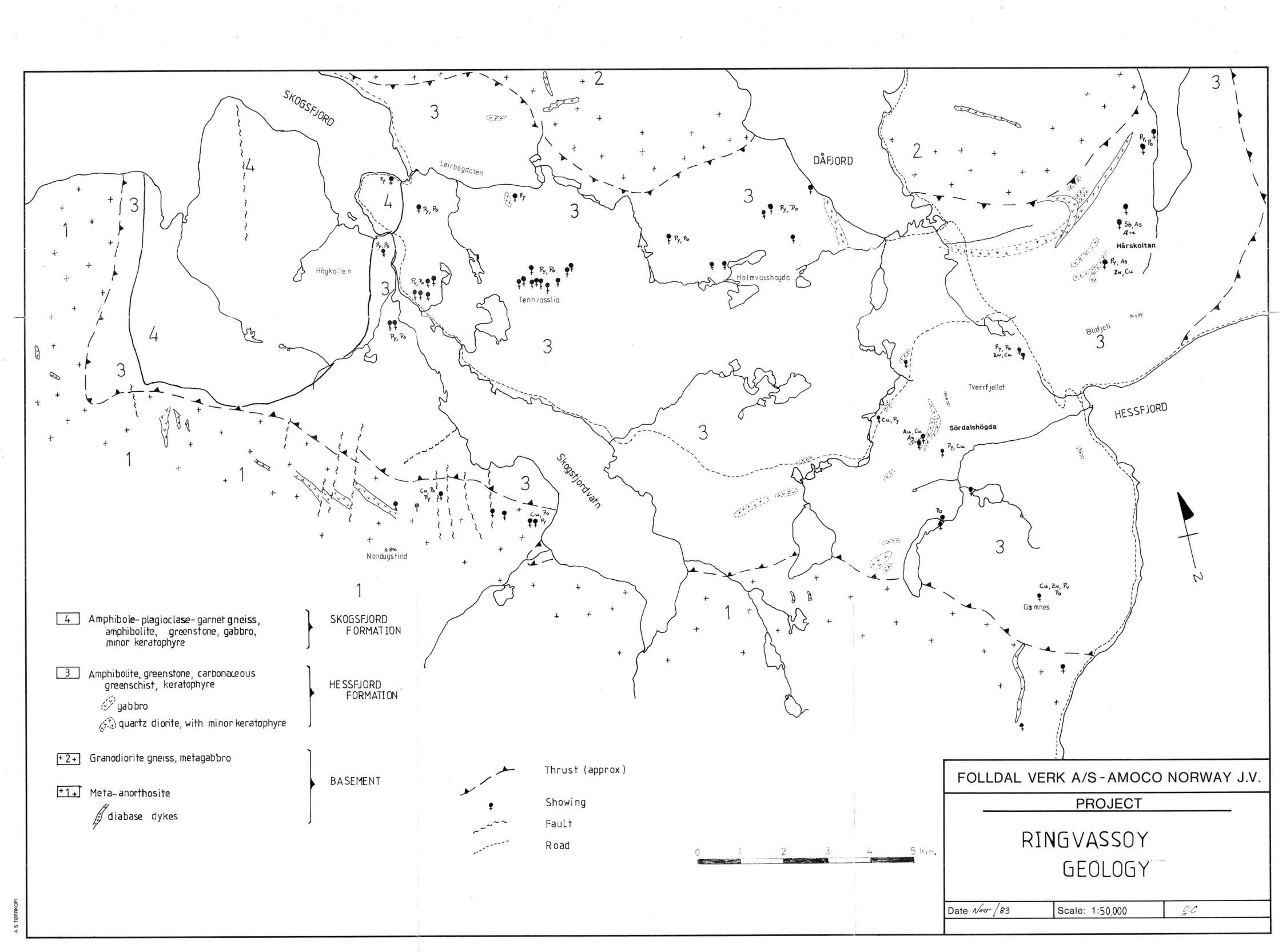
I Henry Tolls and

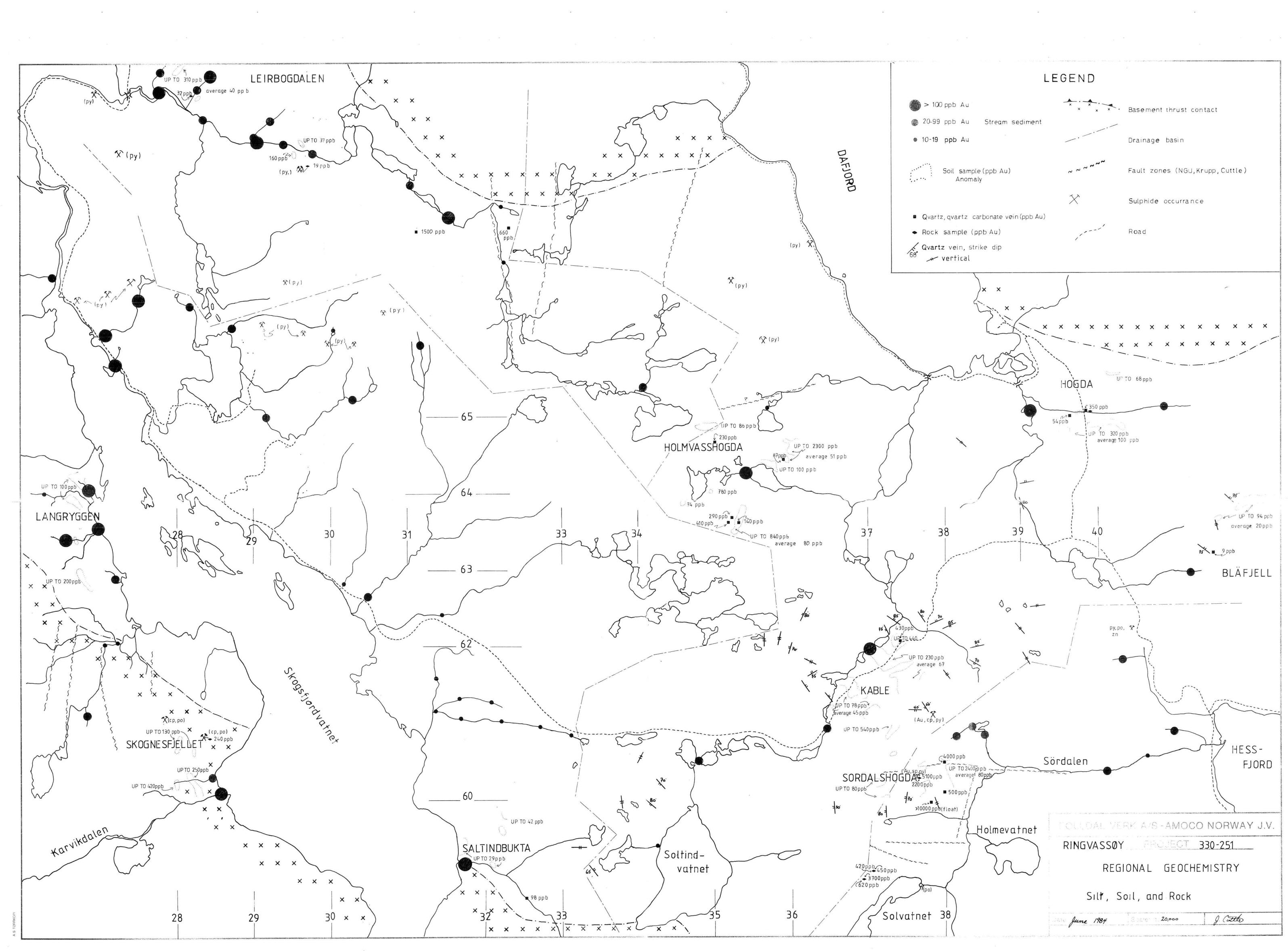
FOLLDAL VERK A/S

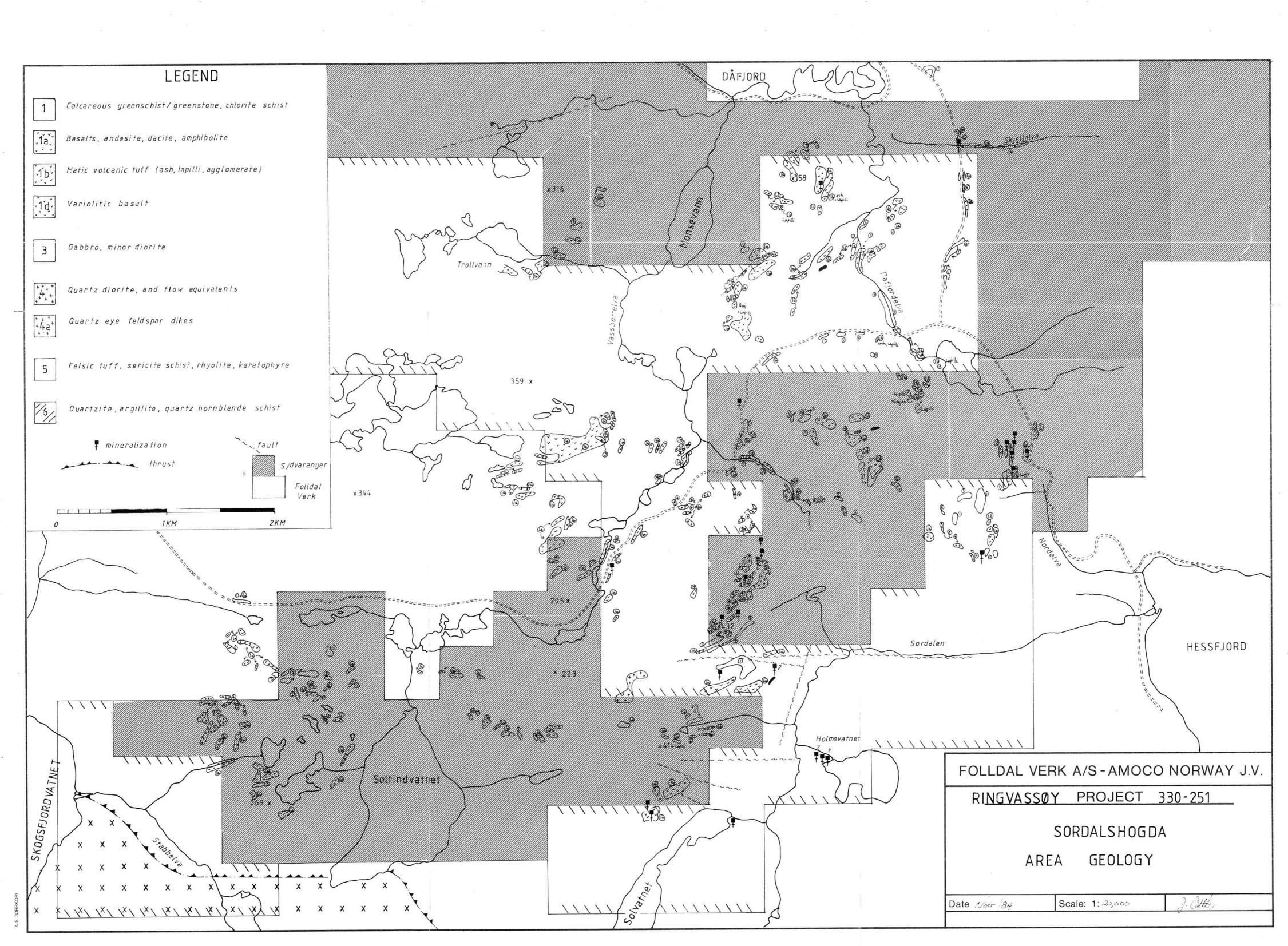
٧ ₹ Assays ភ 2 Š ខ To Interval From - Unit is dark oreen , snotty , and has (highly banded in most sections) Fracturing is COARSE GRAIN INTERMEDIATE TO MAPIC slight enidote stain. Contacts are sharp at ton and bottom of unit (90 to CA) Unit is very similar to previous (intrusive or extrusive) extensive with minor epidote stain. section of 52.30 - 81.35 . MAFIC VOLCANIC FLOW No visible sulphide - No visible sulphide VOLCANIC Description TO 70 104,70 87,90 10/4 ဥ I Henry Tolls 4.4 87.90 81.35 Foa

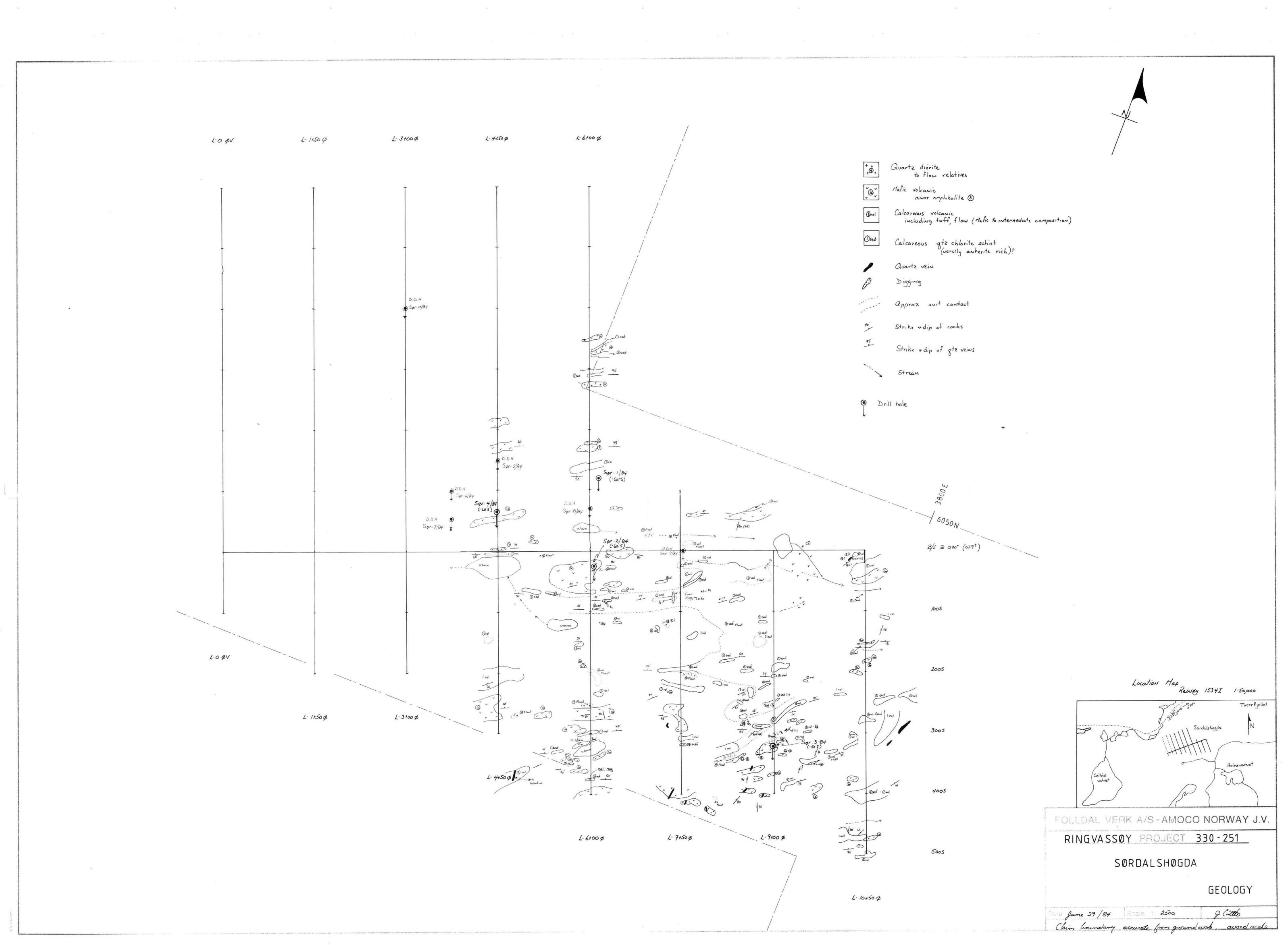
PAGE 5

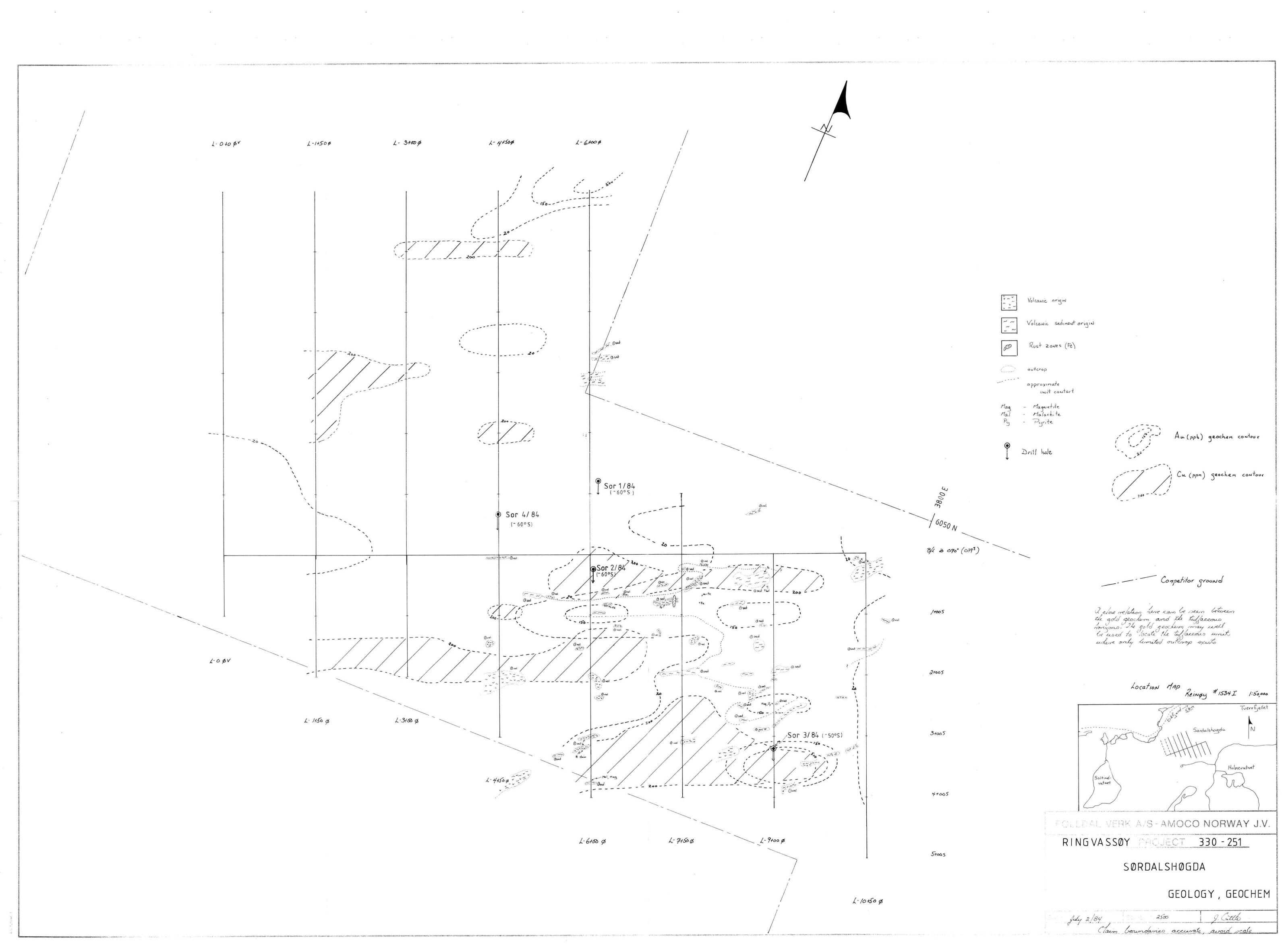
PAGE 6 ٧ ٩ ន Assays 2 ş రె 10 Interval From FOLLDAL VERK A/S ANGERS TO CORE AXIS 85. 860 85 85 G C G 80 85 **2**07 777 750 Description 10 meters = = = = Ξ = = = = 100 **C** 0 20 30 \subset 50 06 80 ္ Heav Toll 44 From

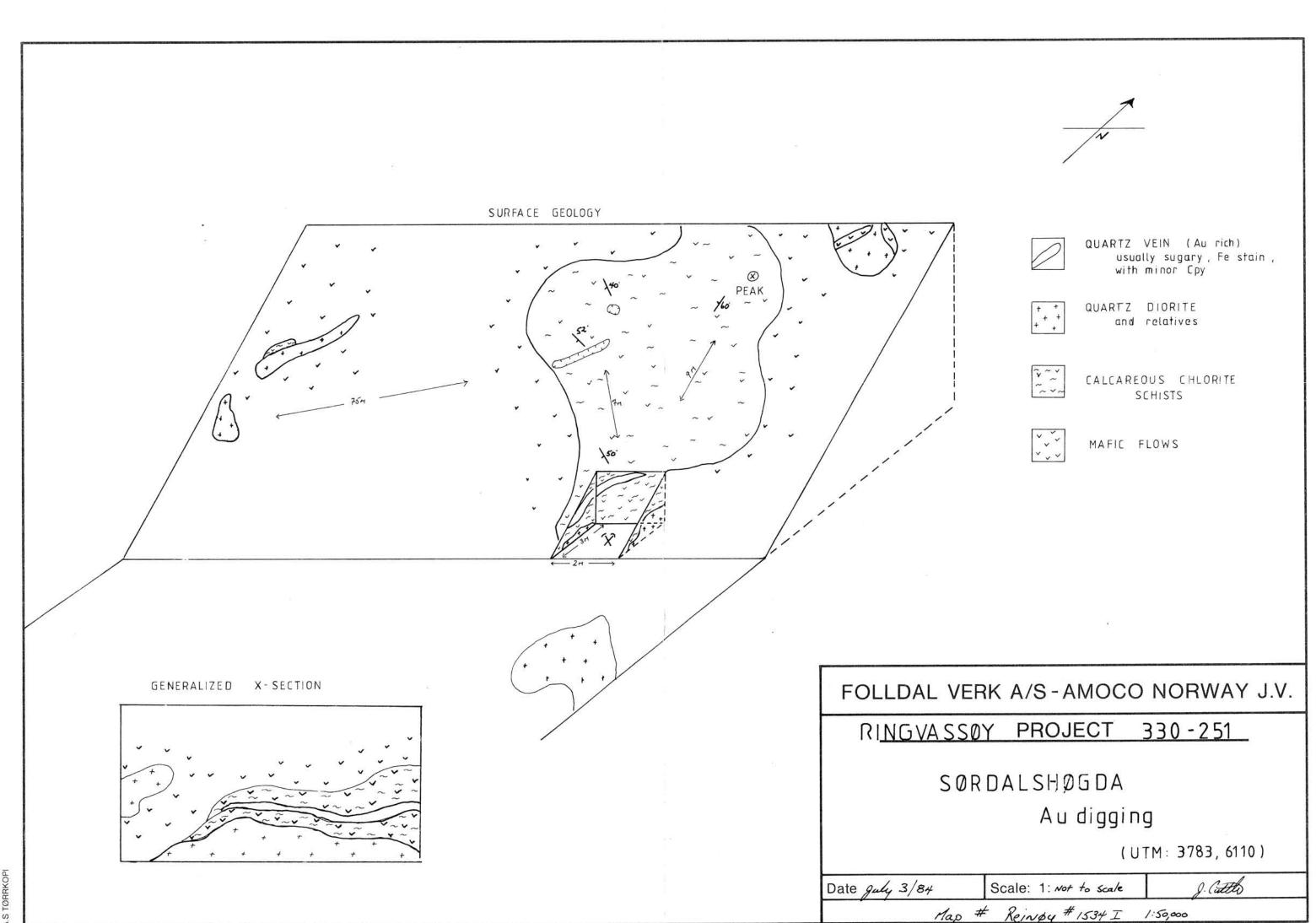


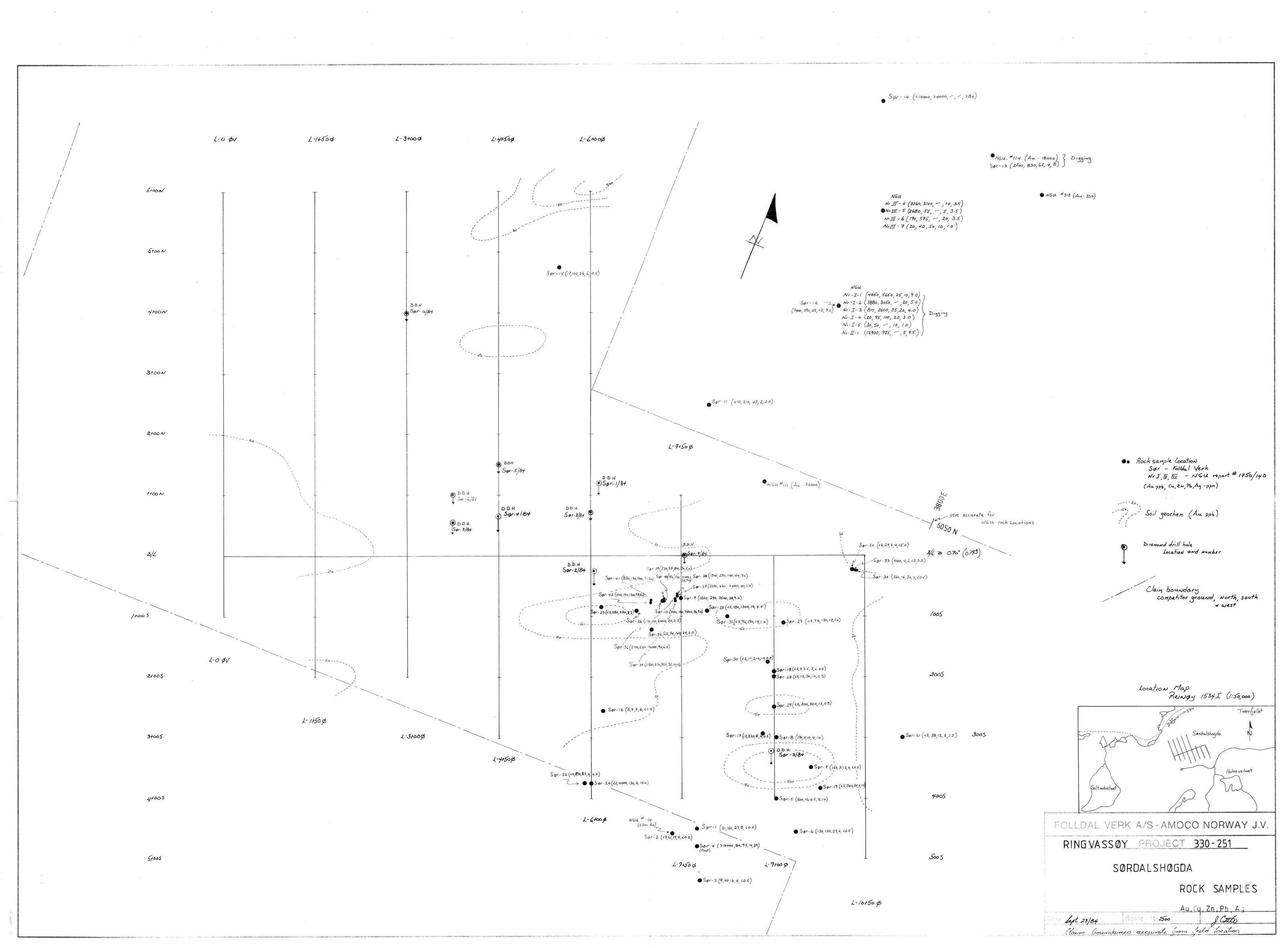


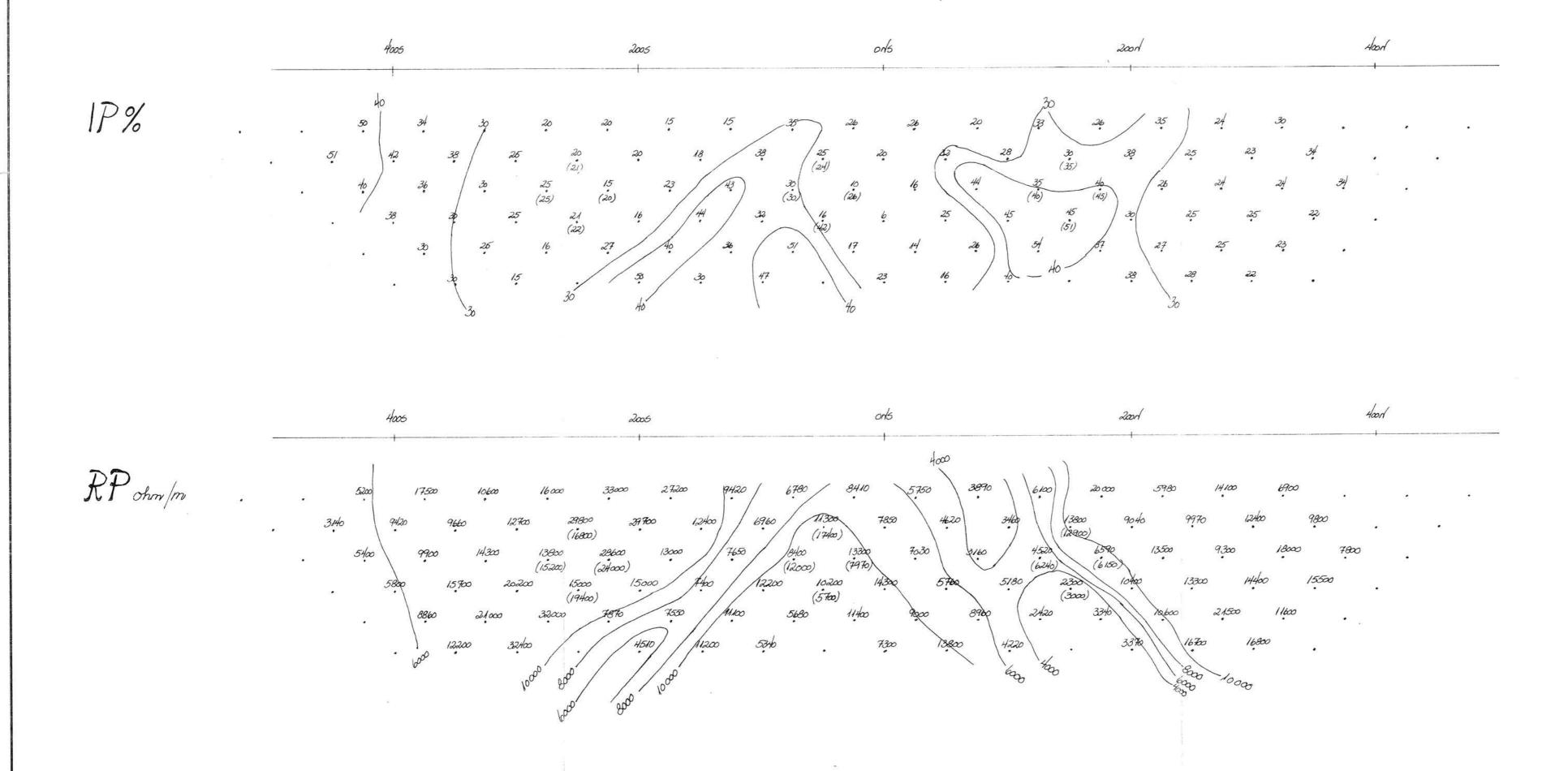












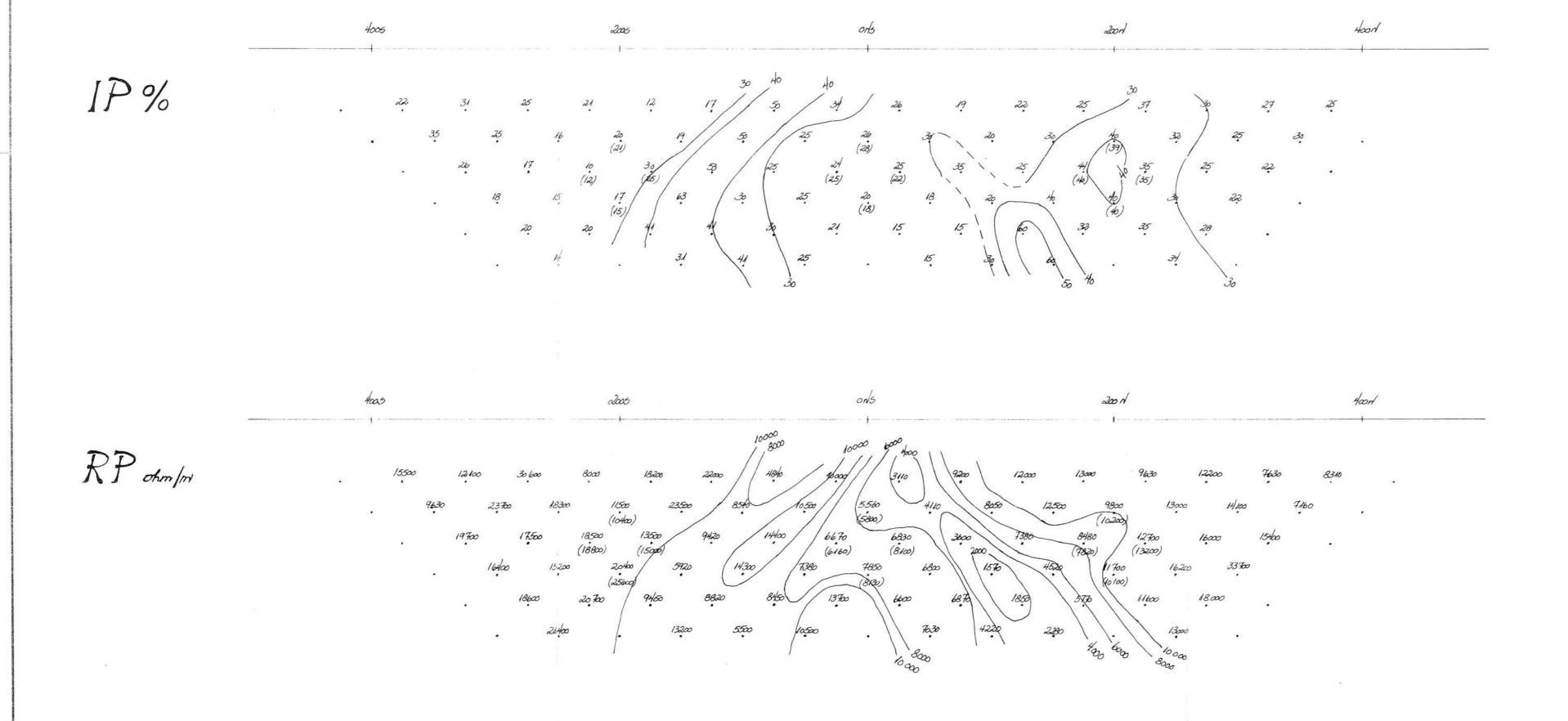
FOLLDAL VERK A/S-AMOCO NORWAY J.V.

Ringvassay - PROJECT - N-82-3

SORDALSHOGDA IP-SURVEY Line 600

DIPOLE - DIPOLE a =50M

Date 12.10.1984 Scale: 1: 2500



FOLLDAL VERK A/S-AMOCO NORWAY J.V.

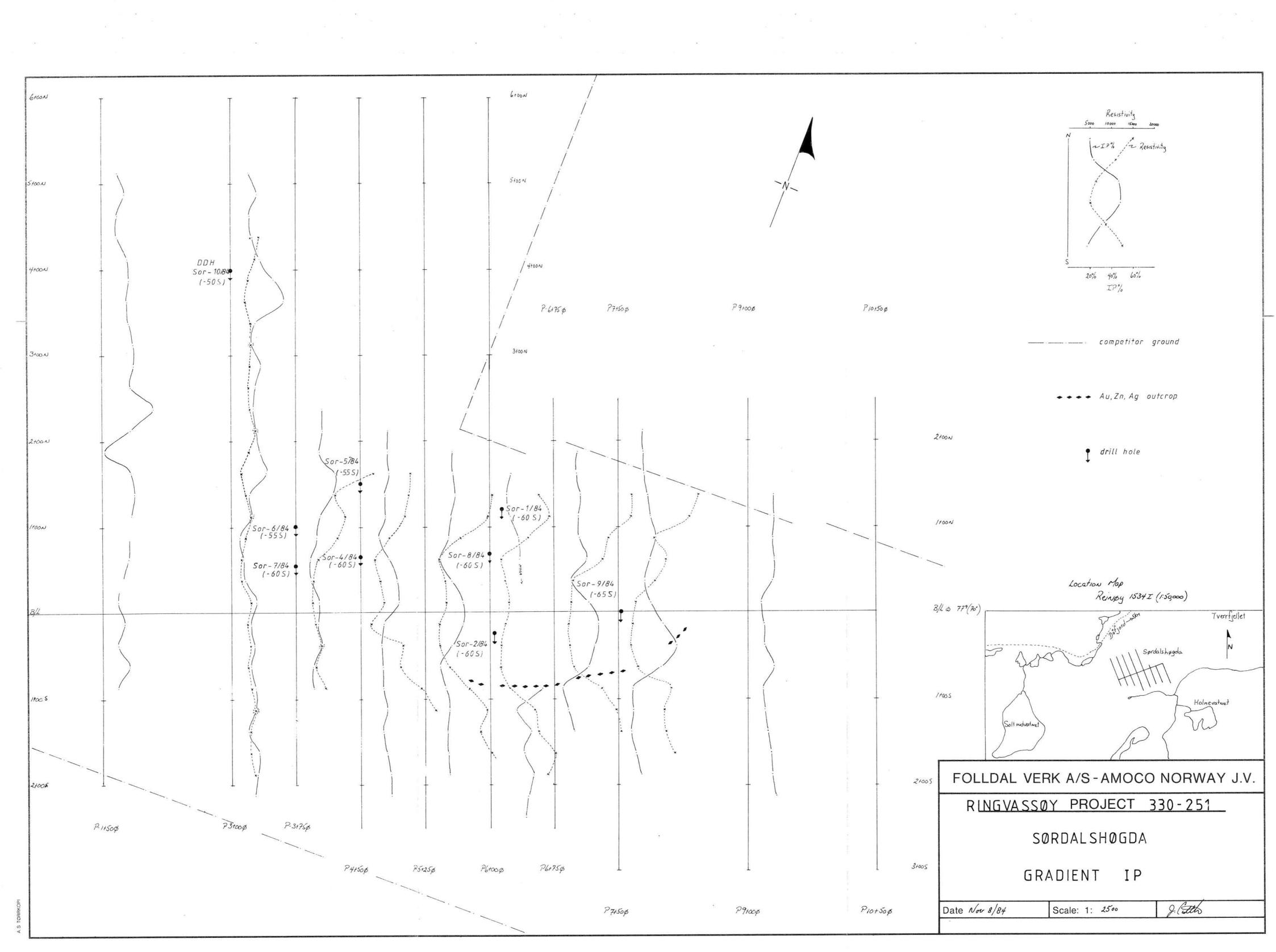
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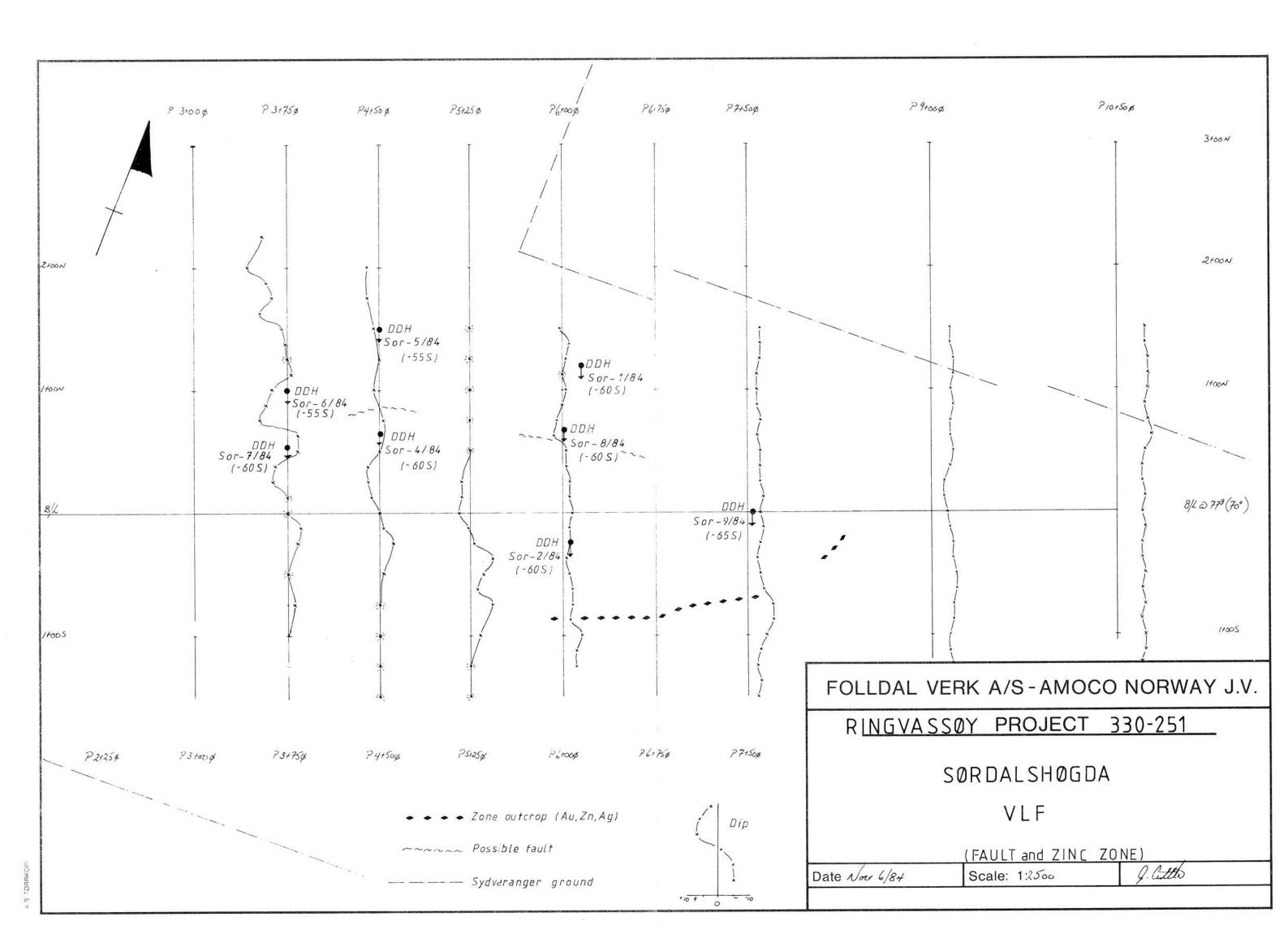
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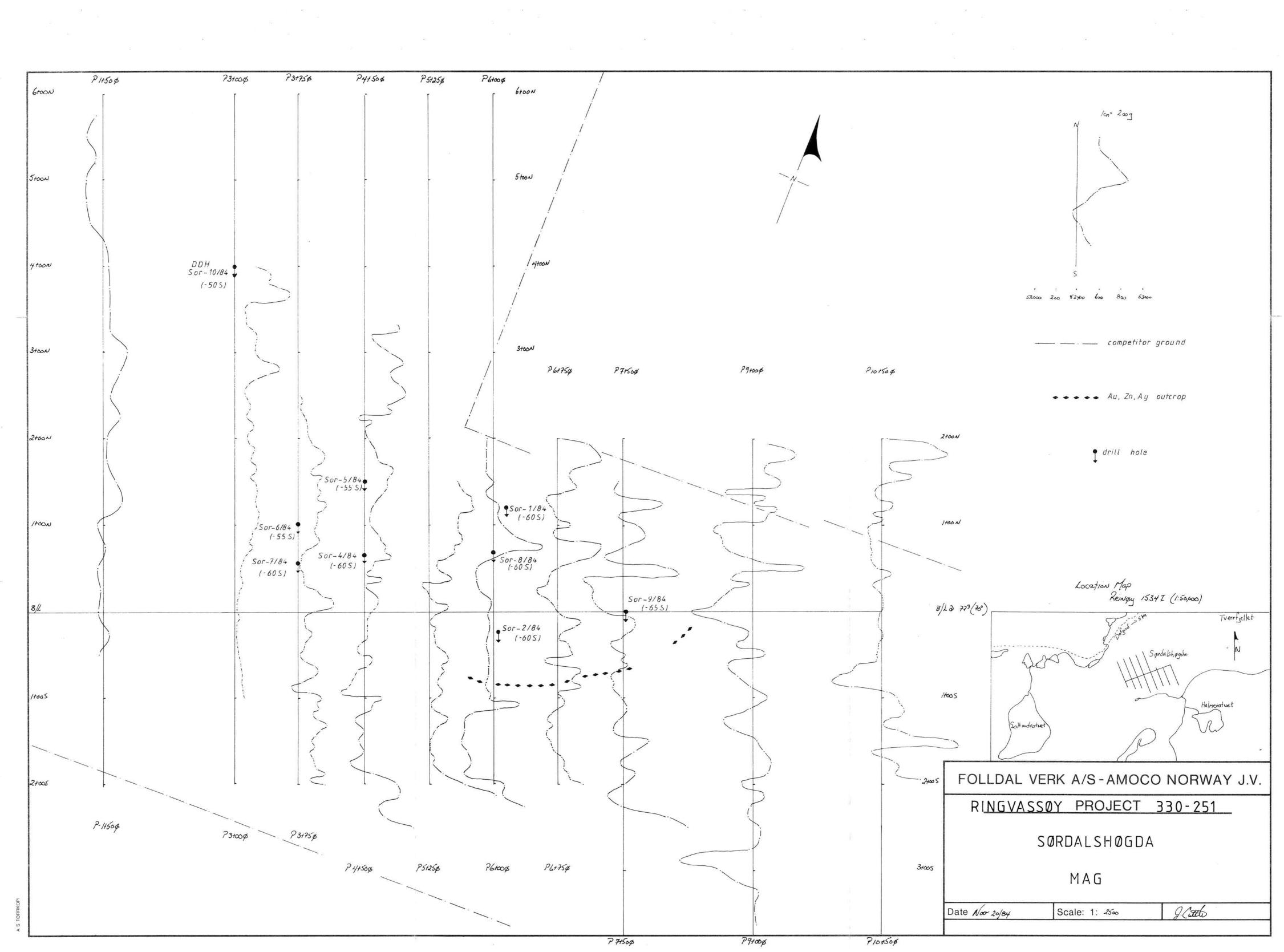
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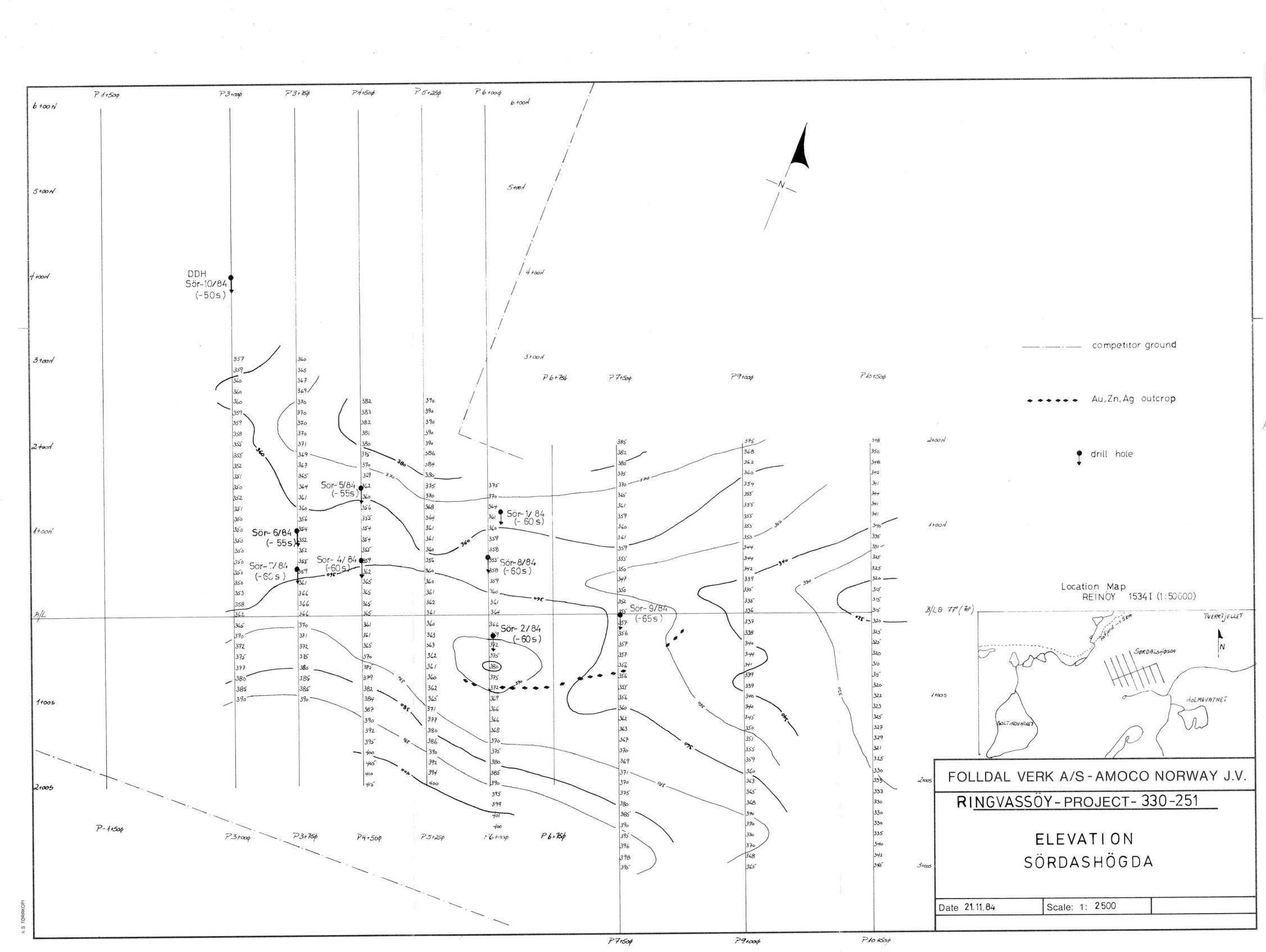
Date 10.10.1984

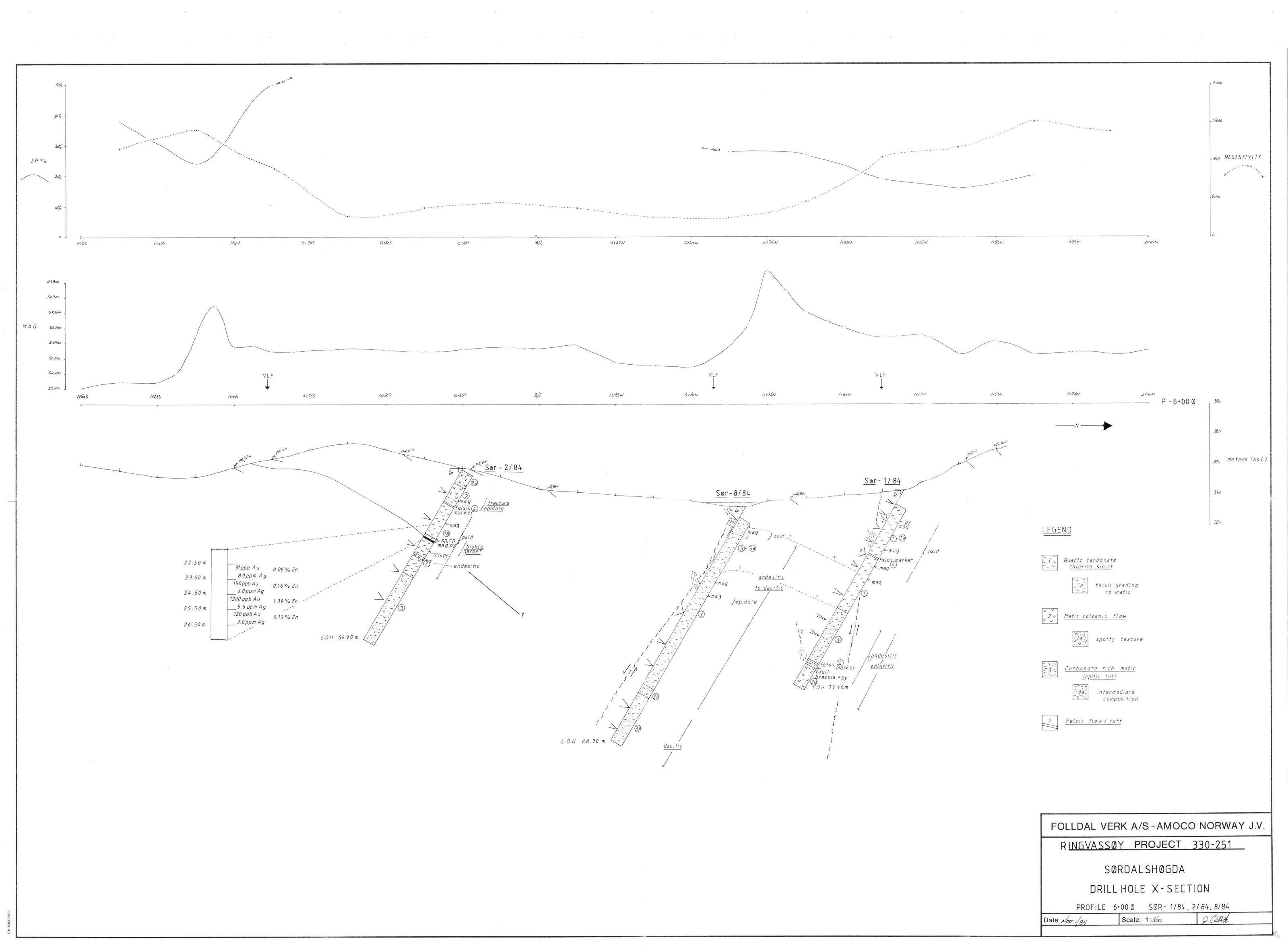
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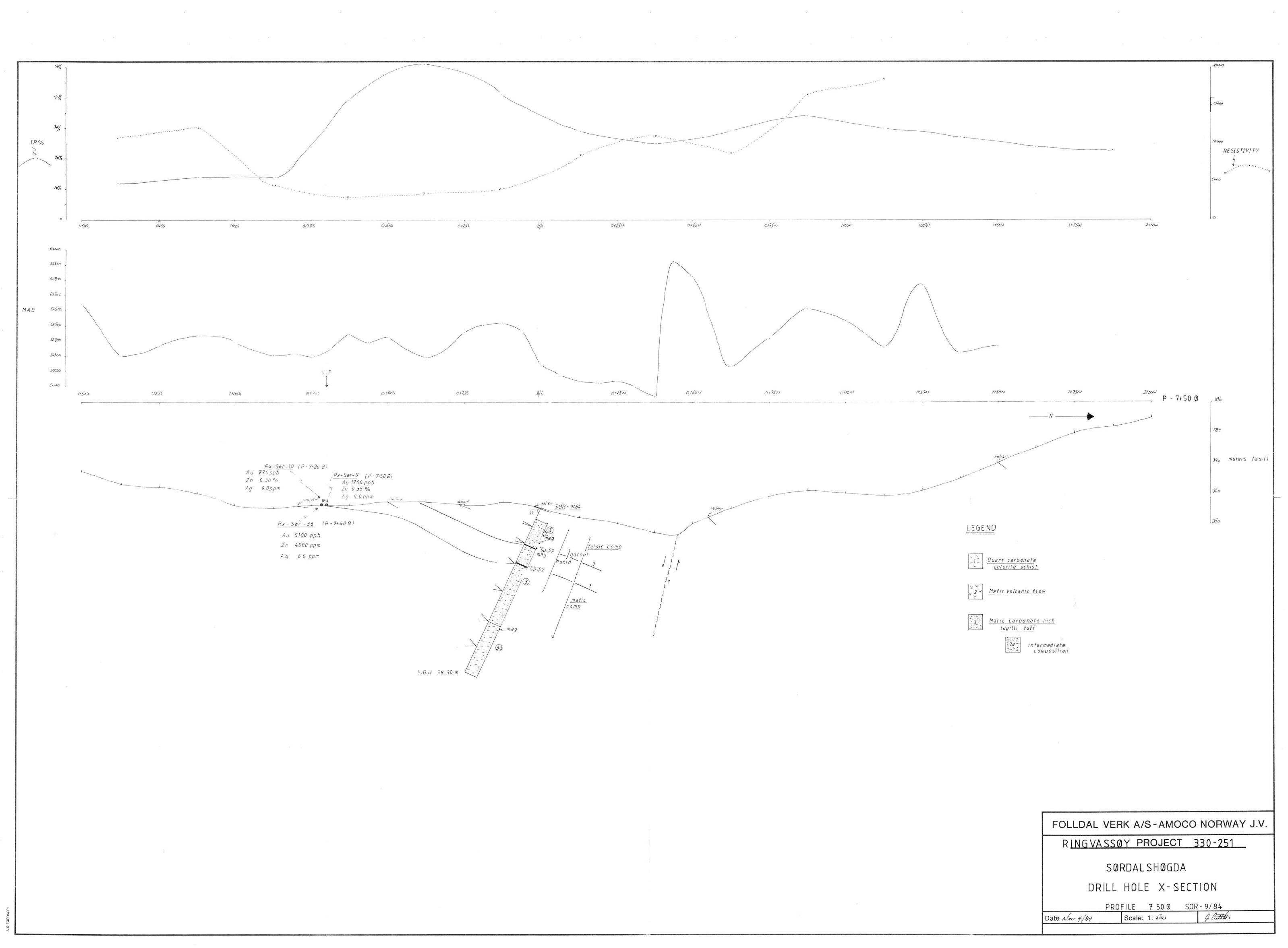


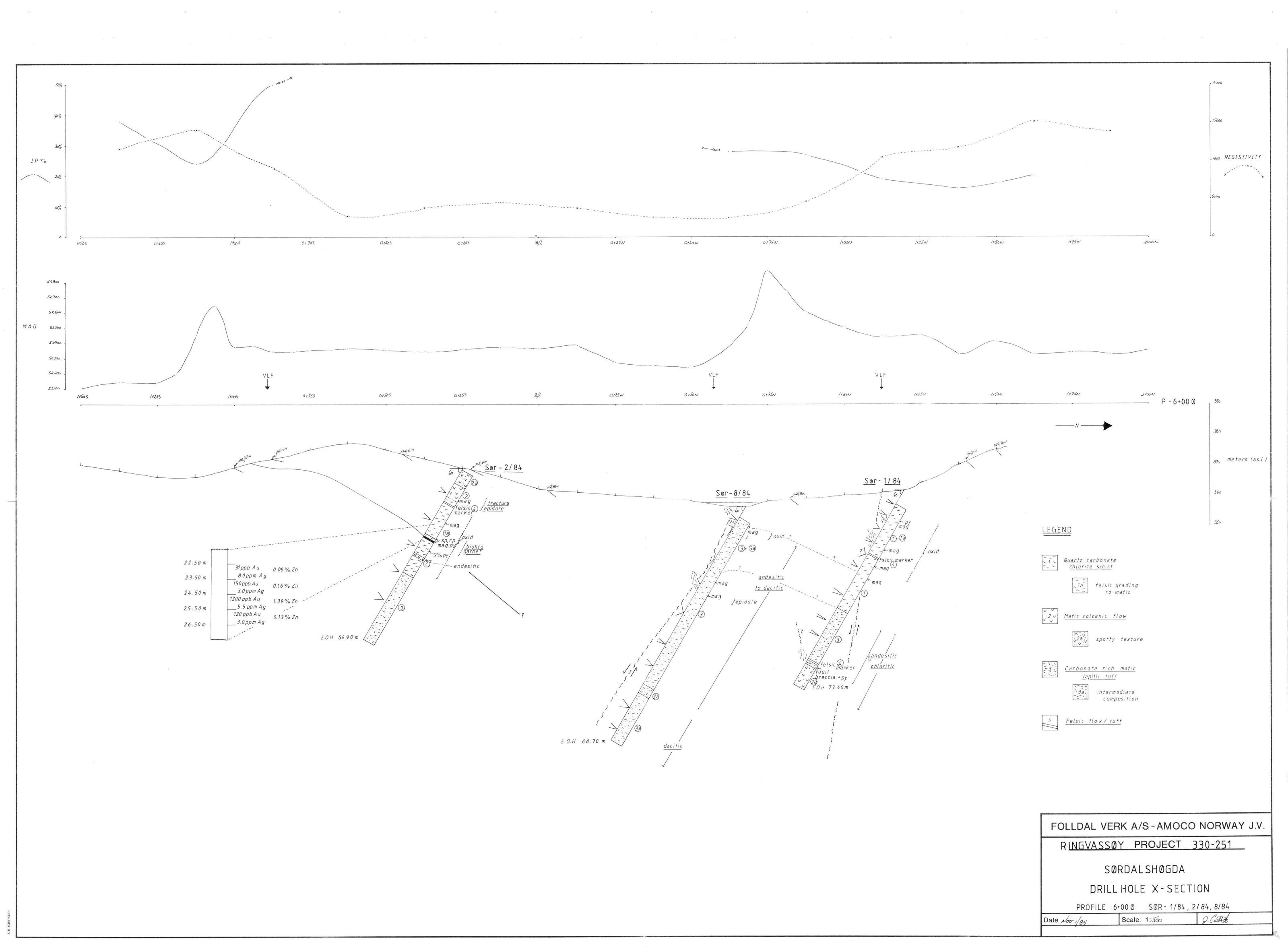


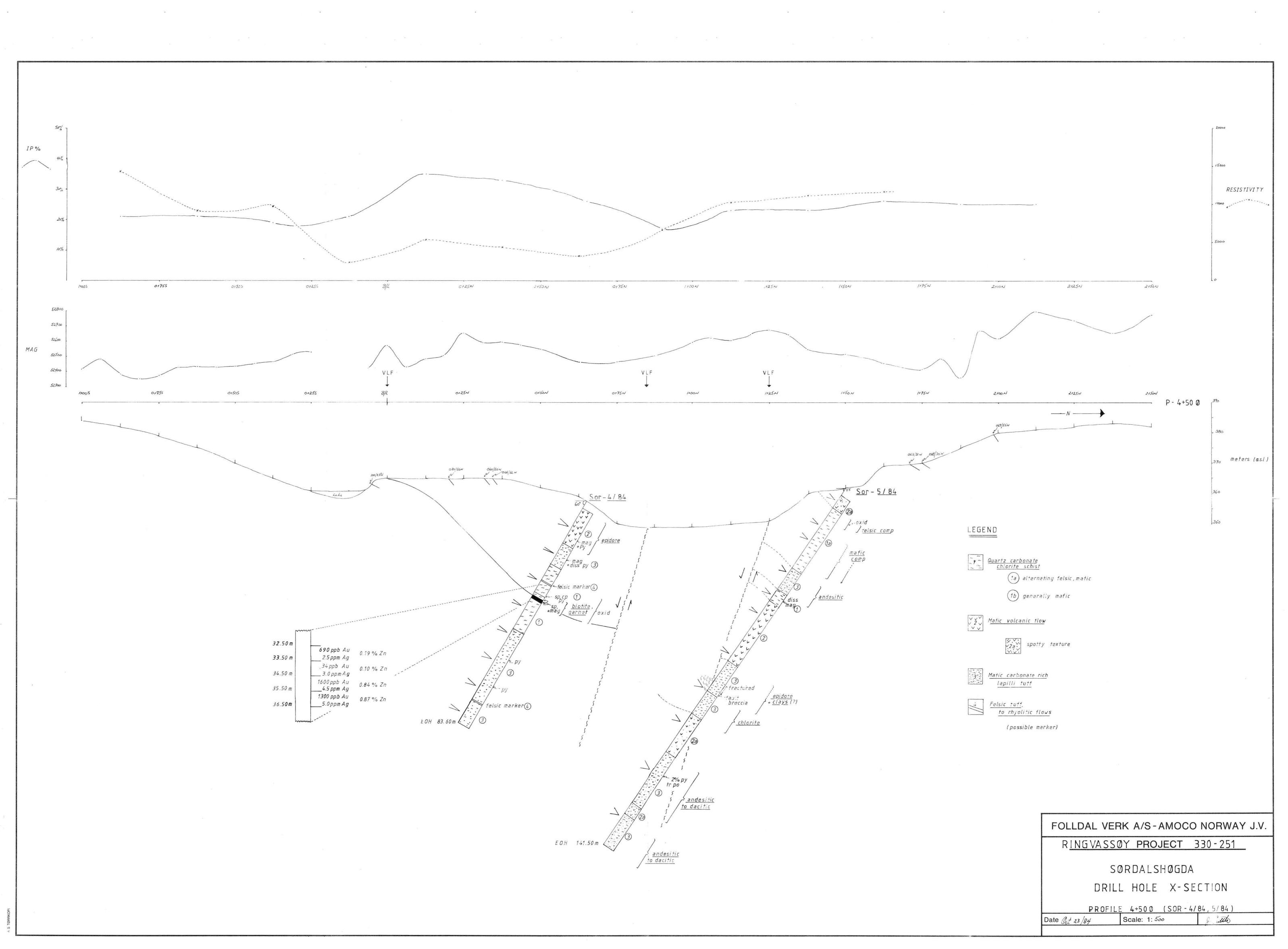


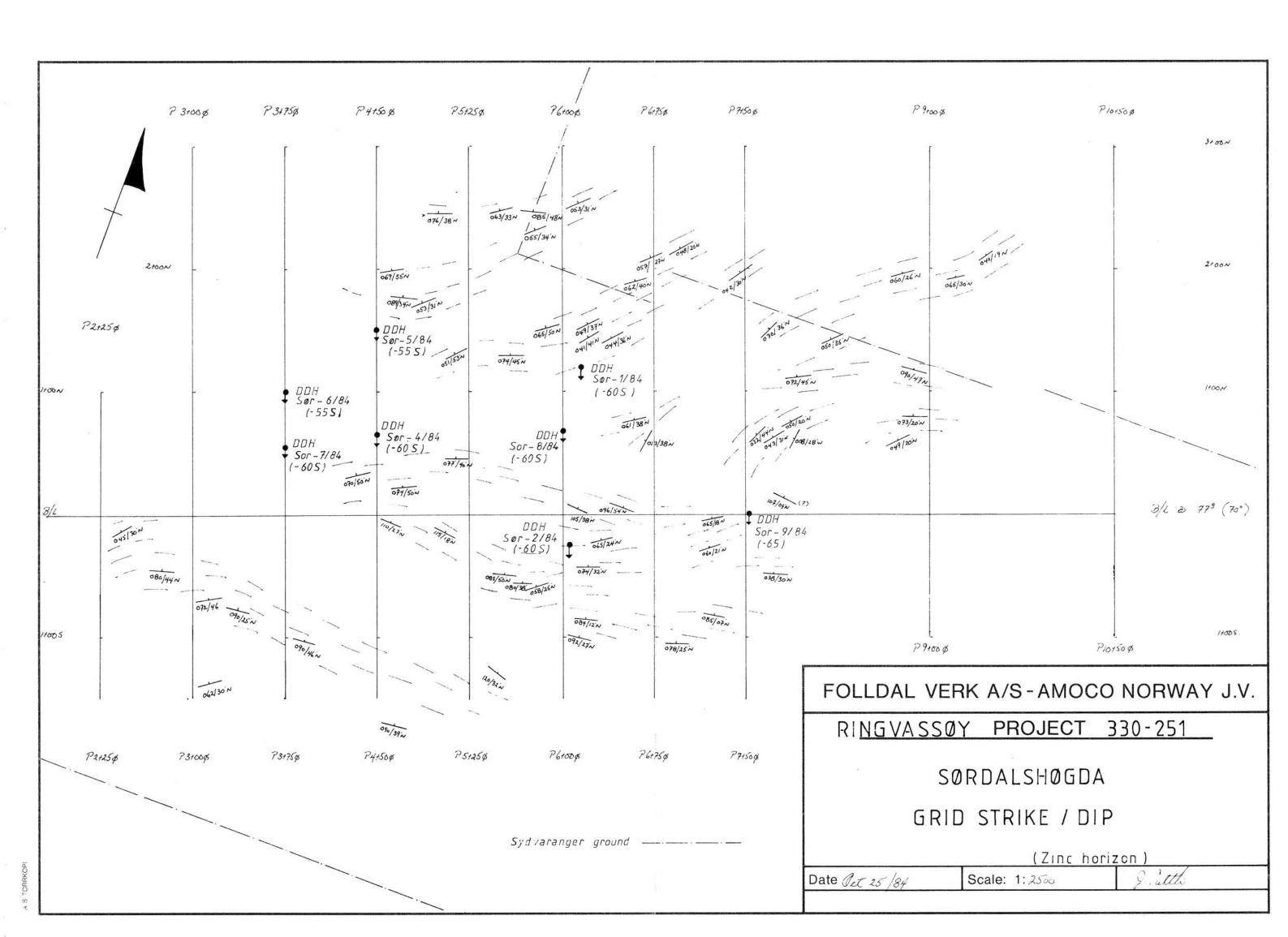


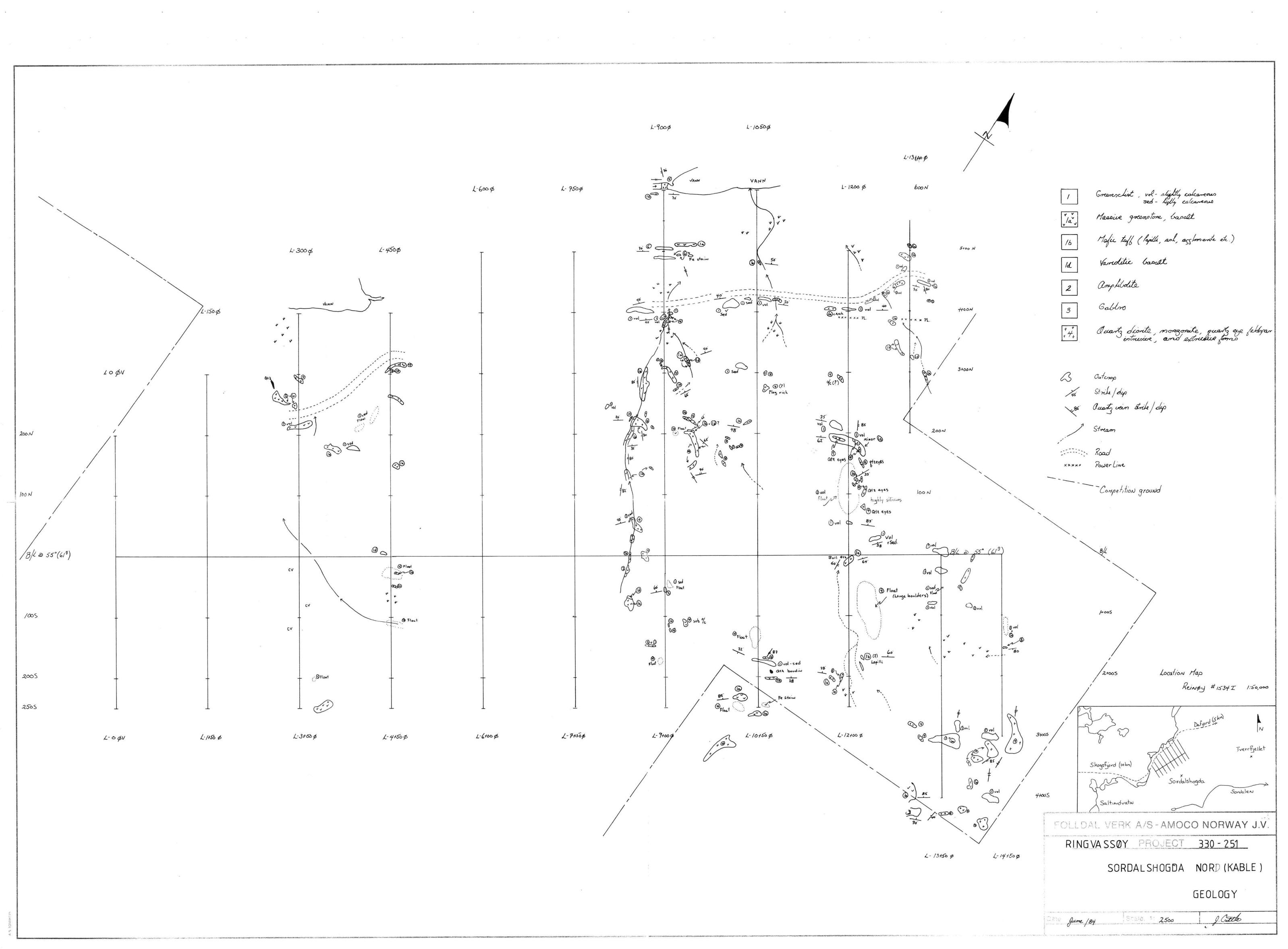


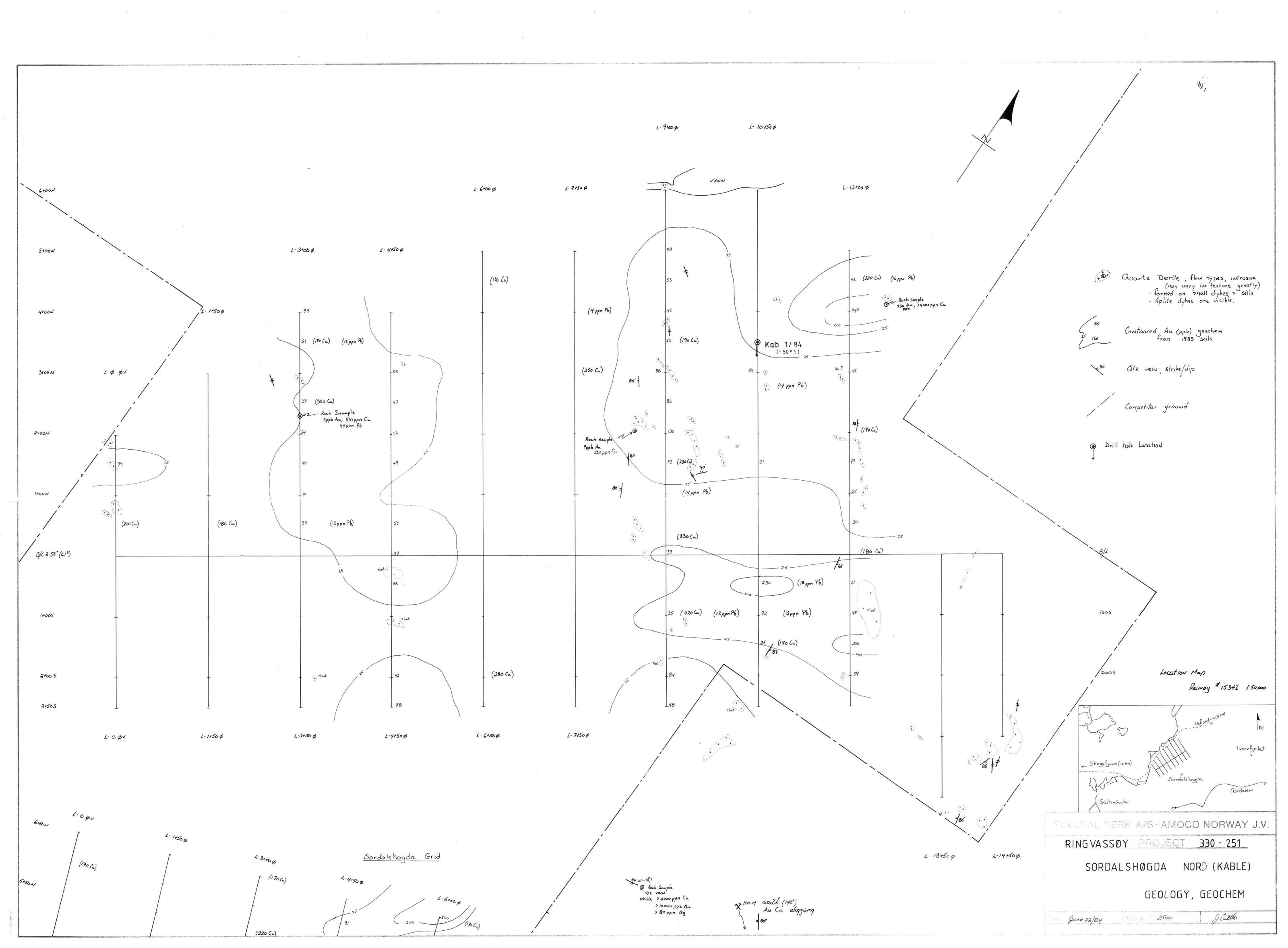


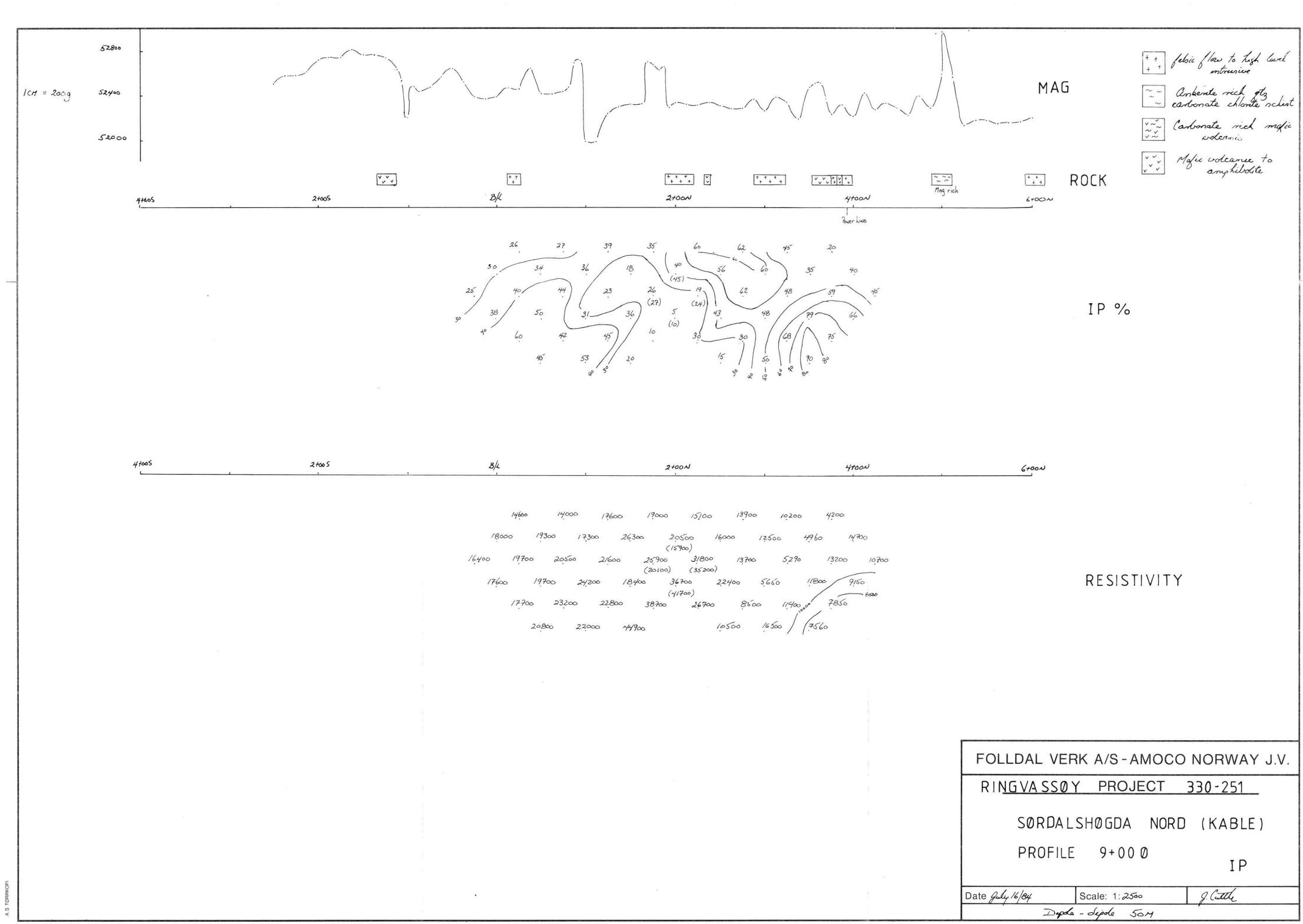


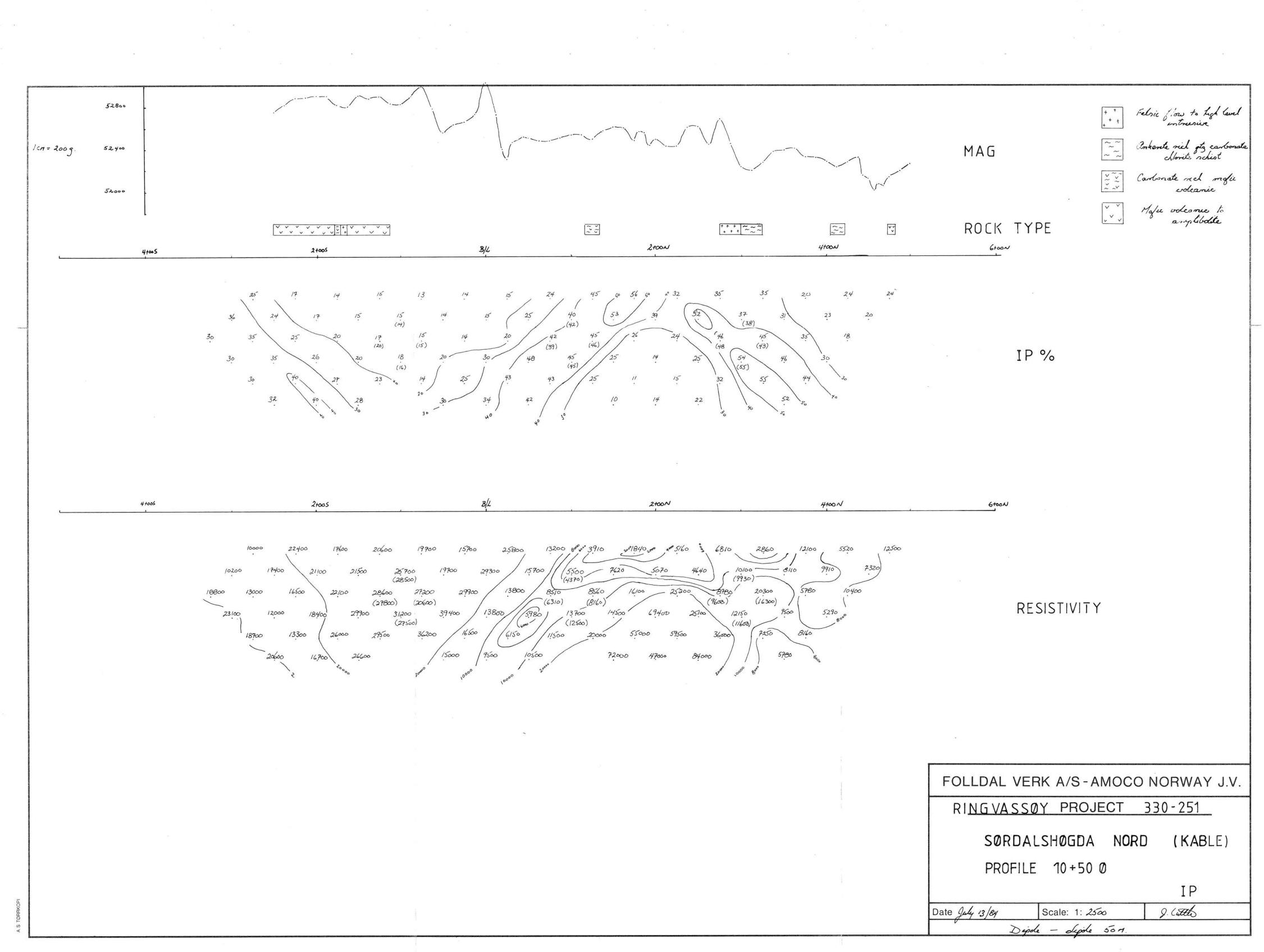


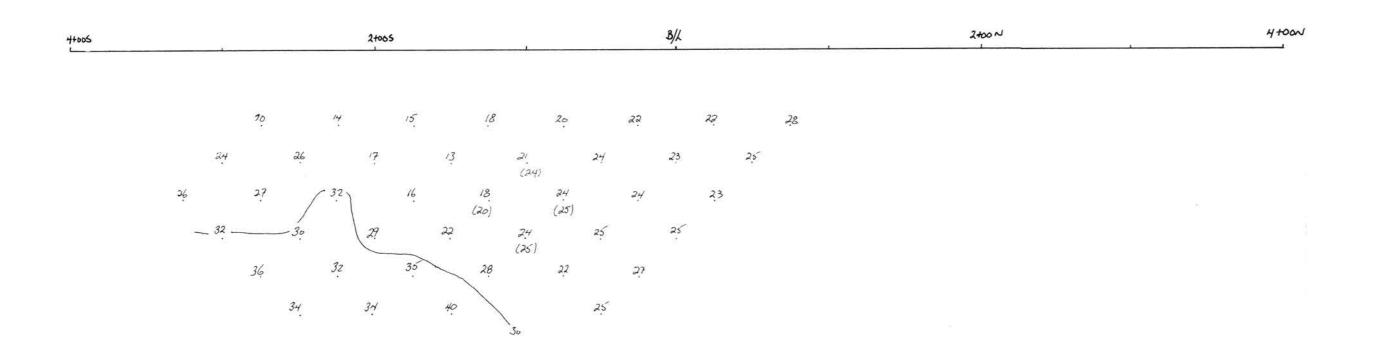












IP %

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RESISTIVITY

FOLLDAL VERK A/S-AMOCO NORWAY J.V.

RINGVASSØY PROJECT 330-251

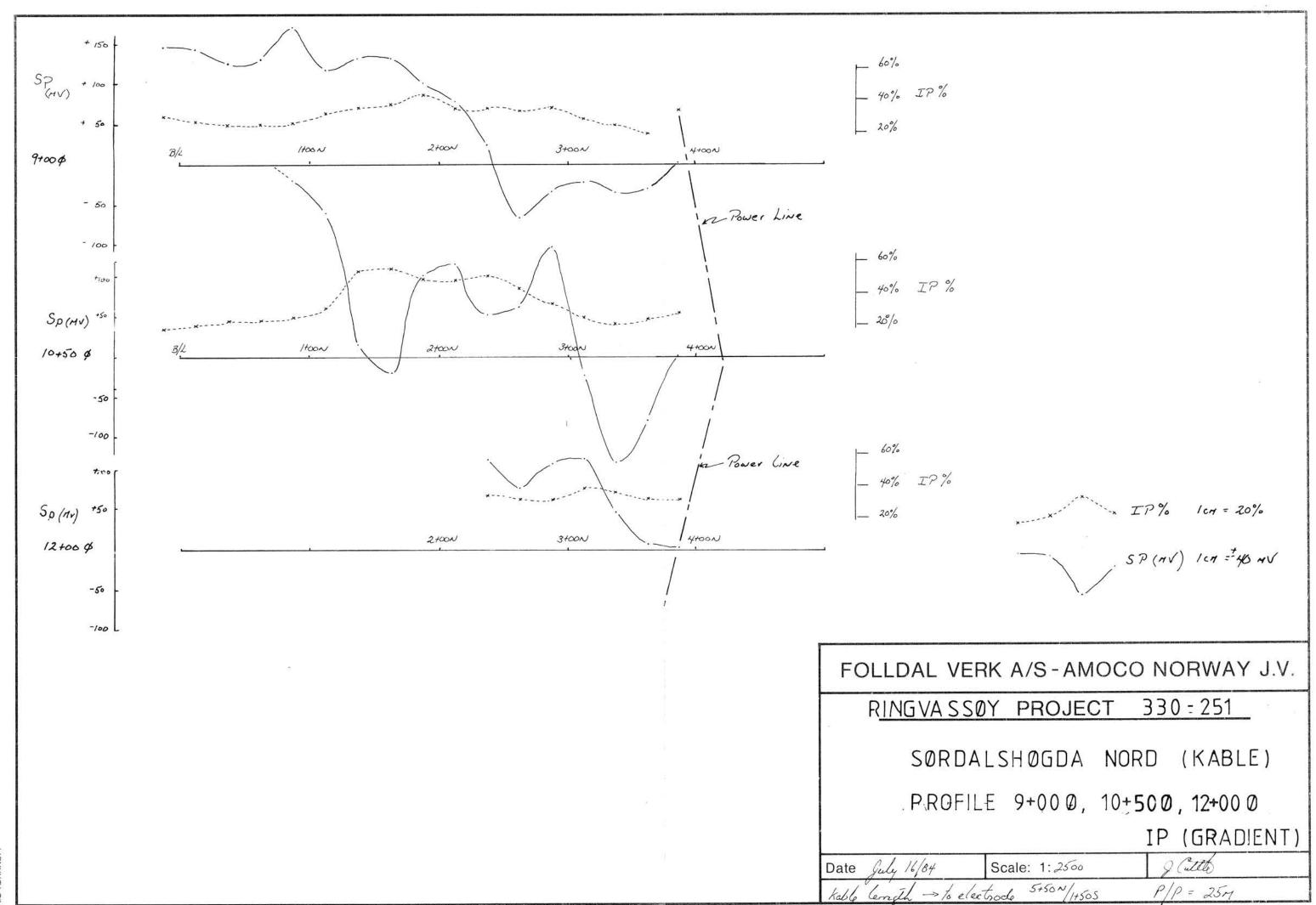
SORDALSHOGDA NORD (KABLE)

PROFILE 12+000

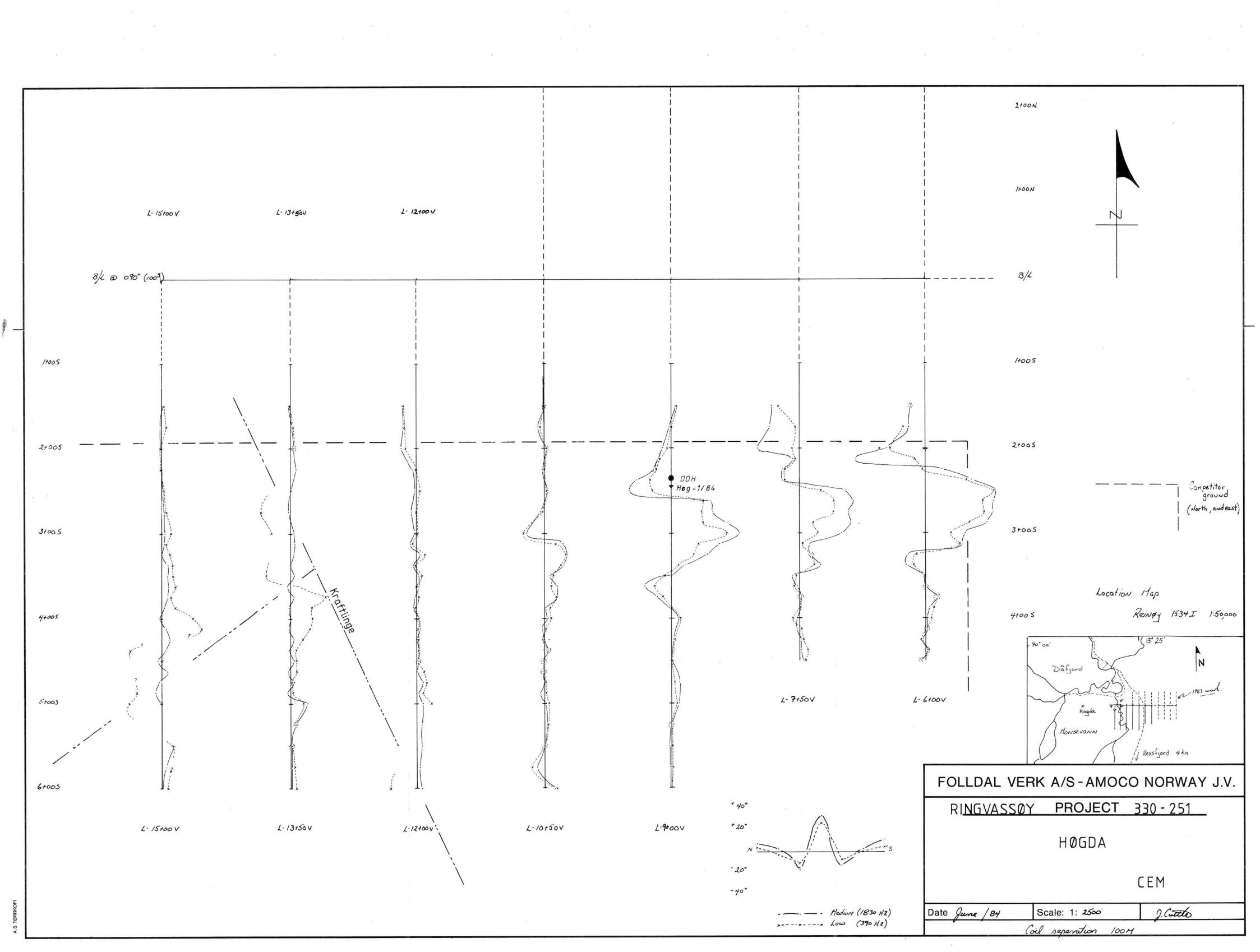
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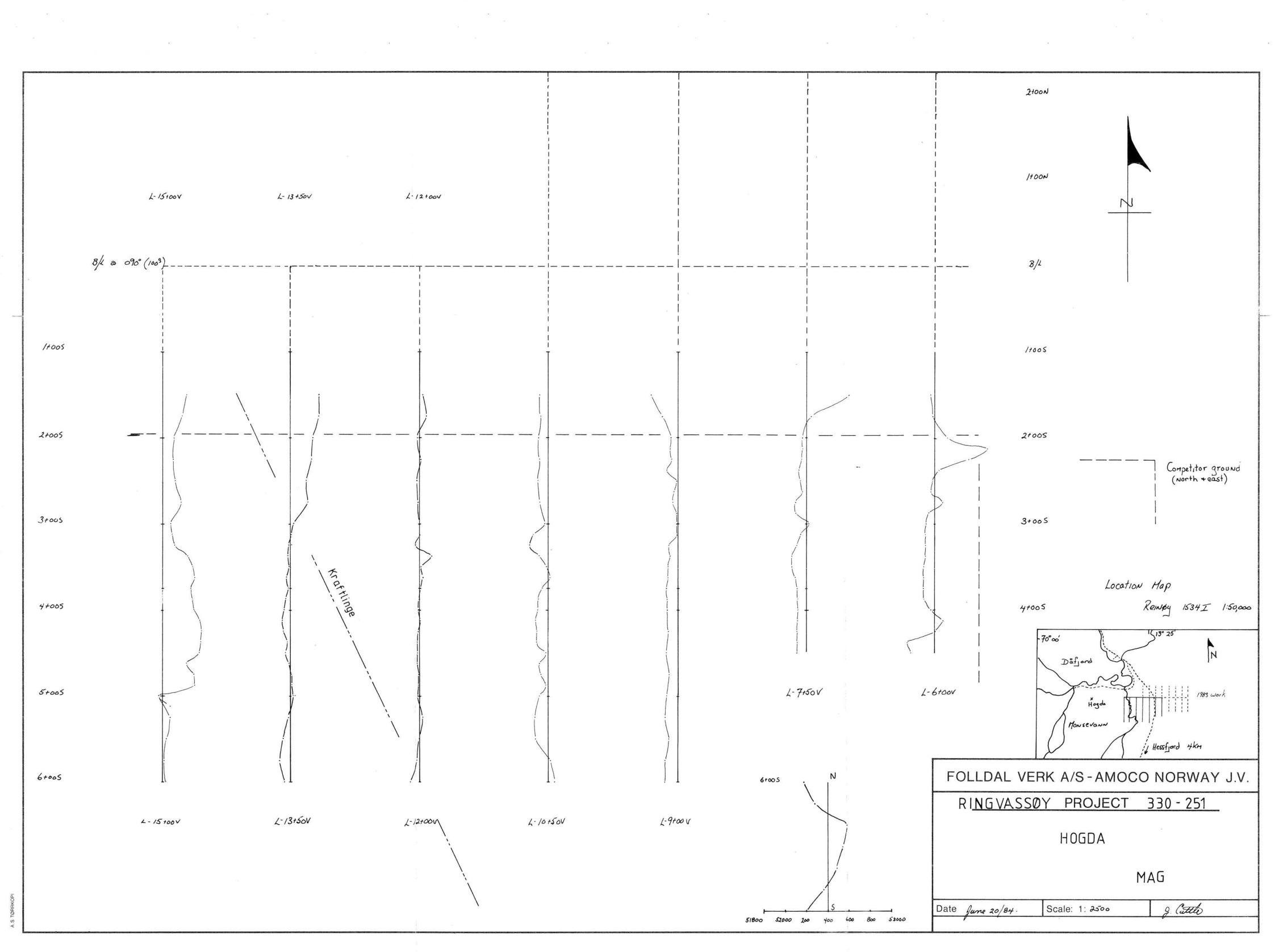
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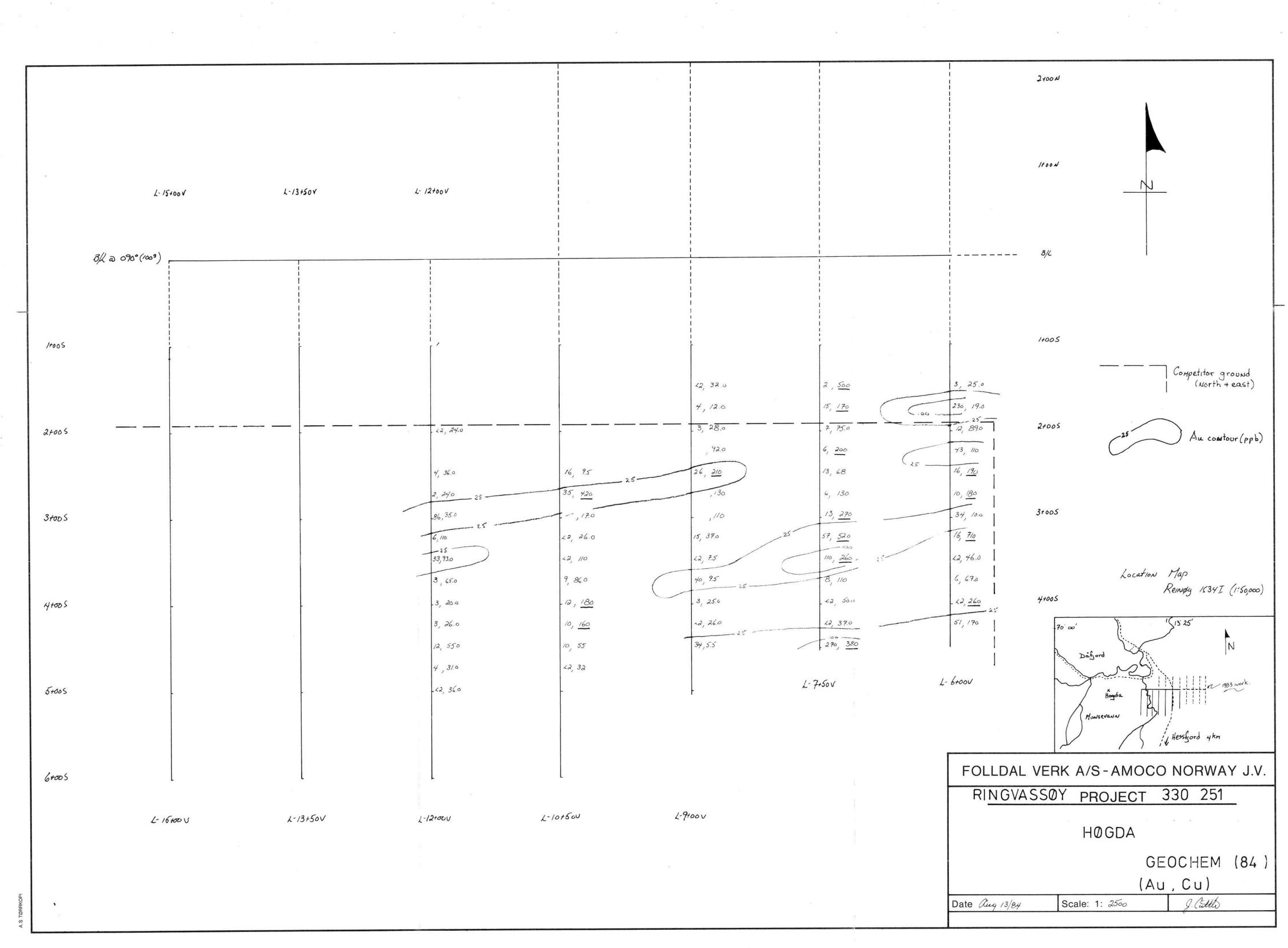
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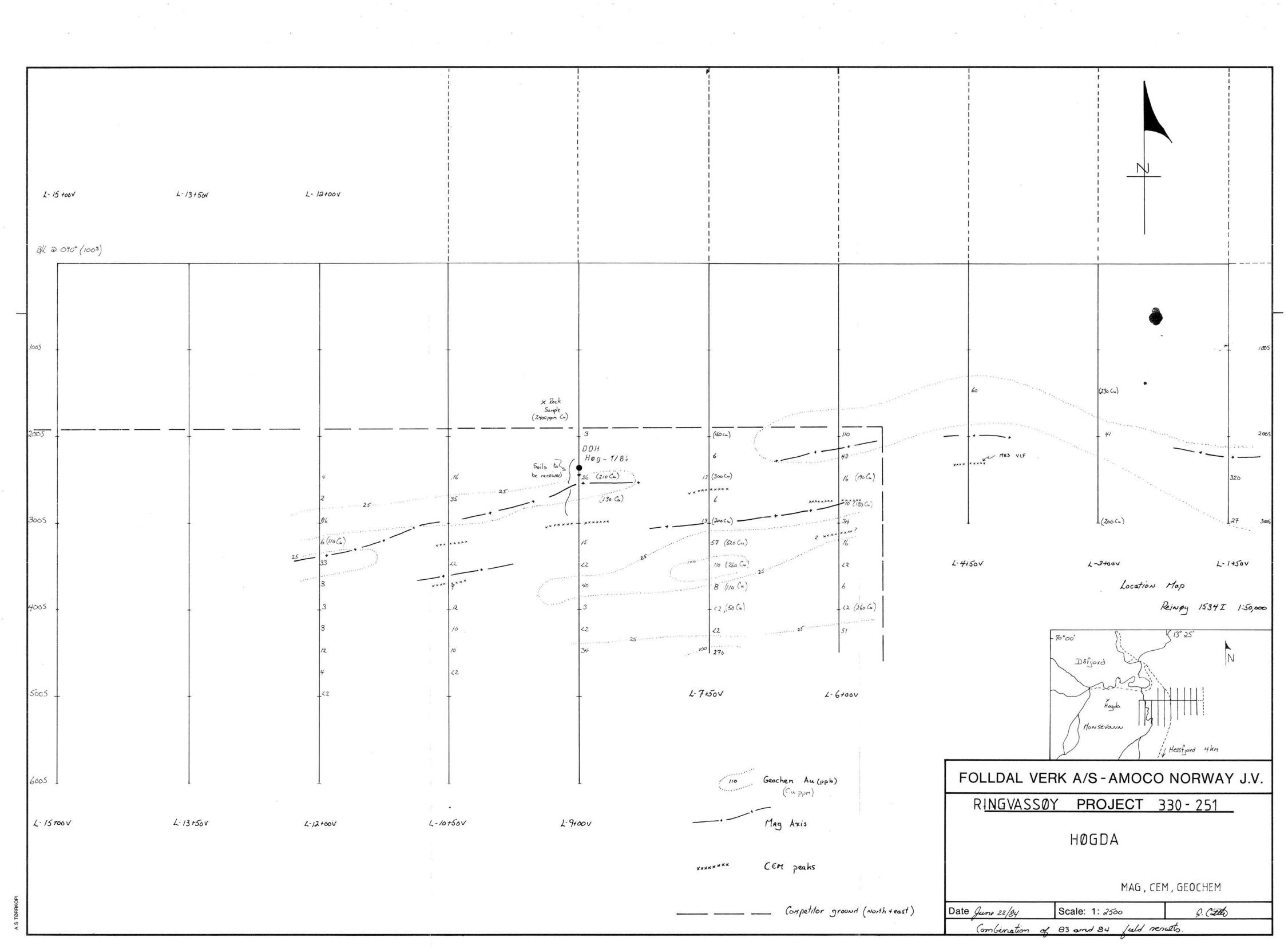


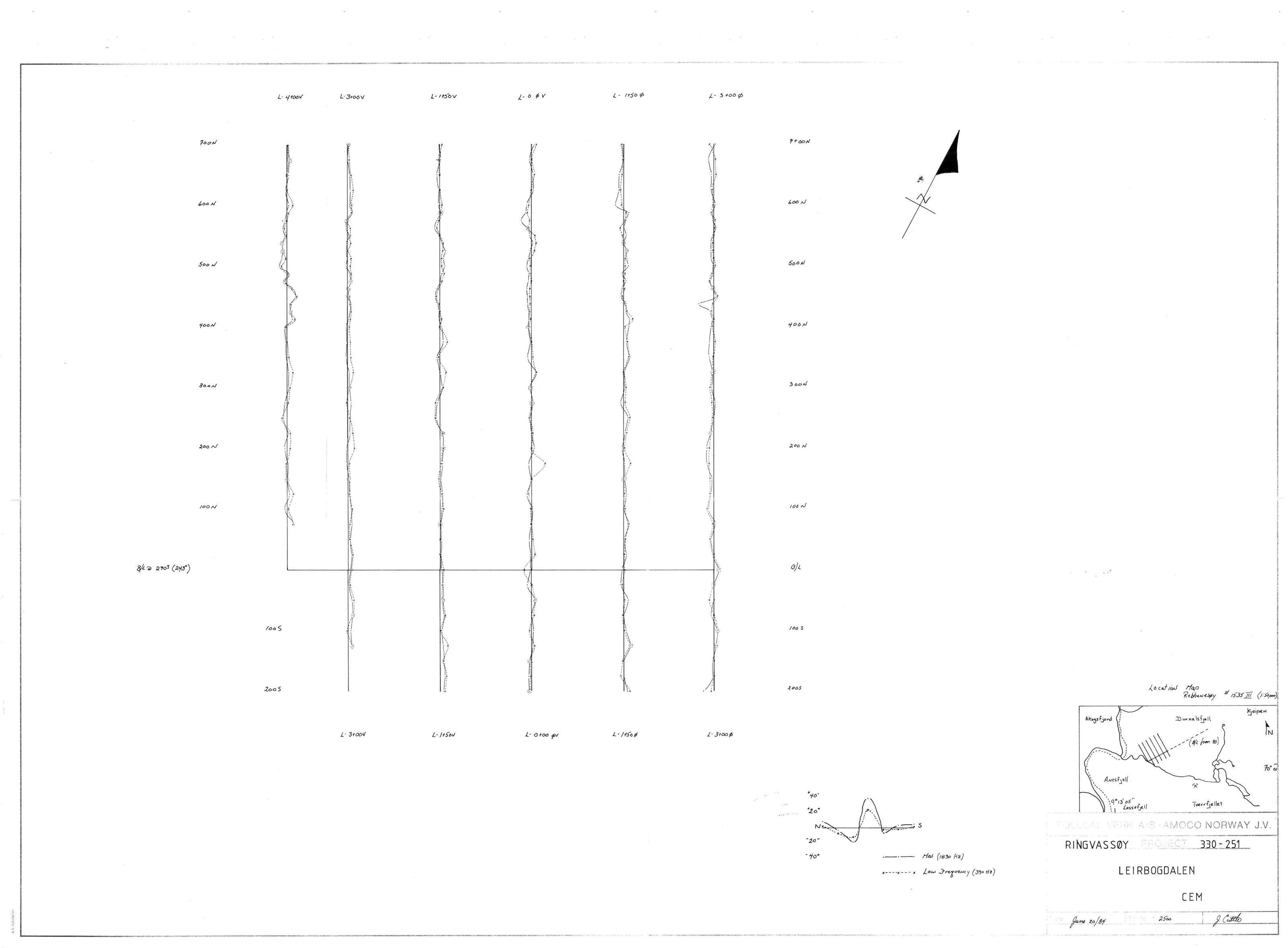
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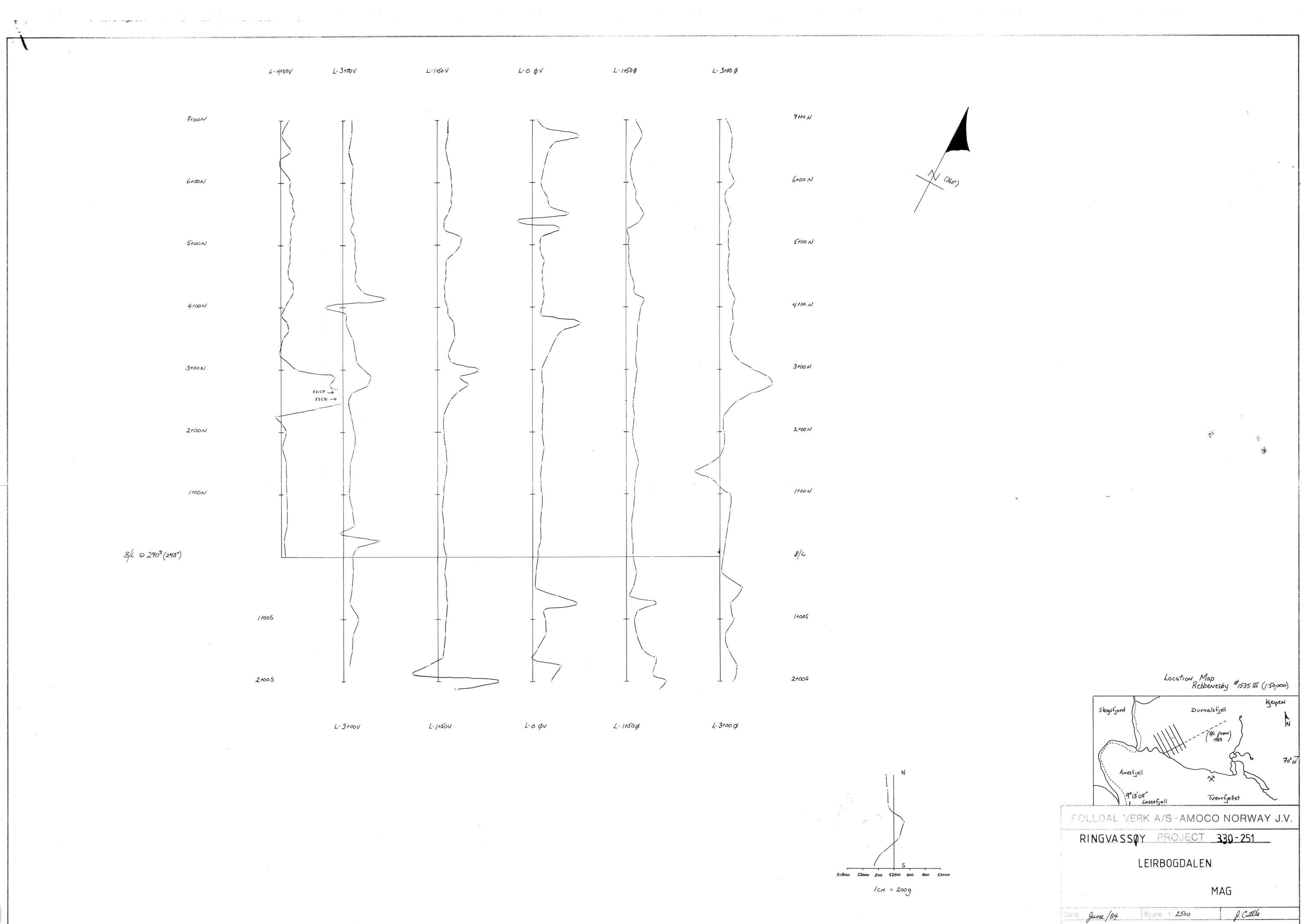




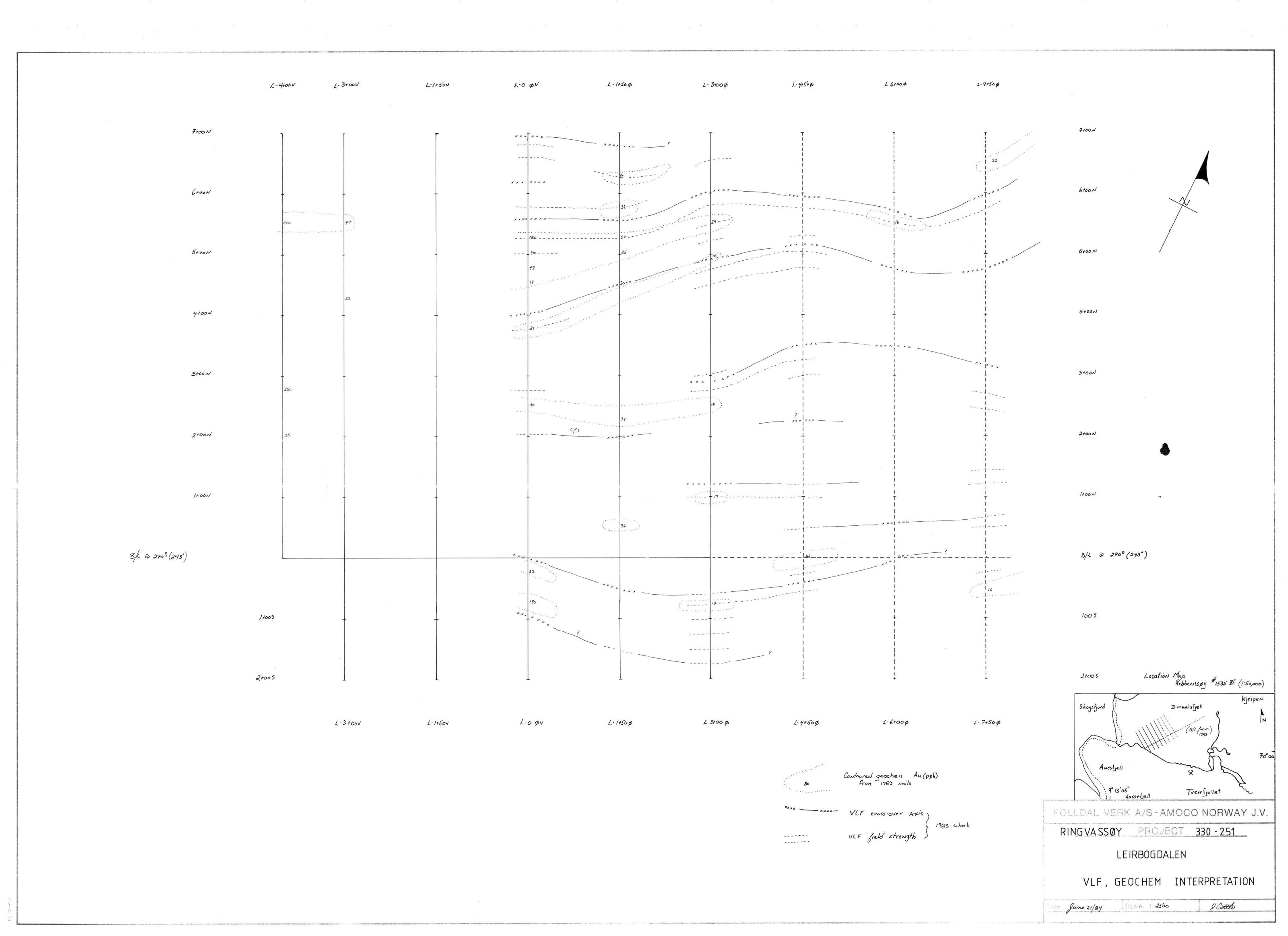


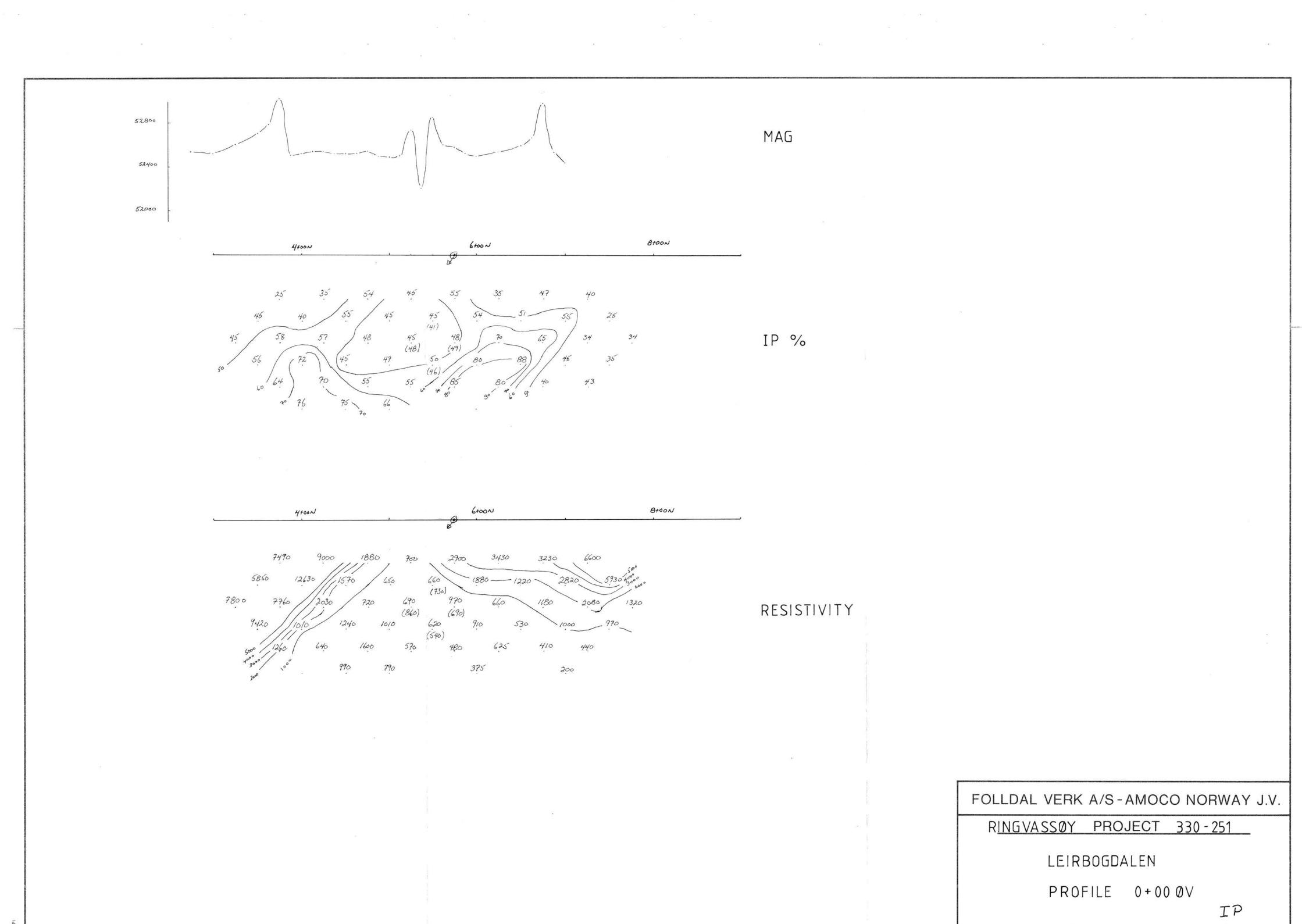






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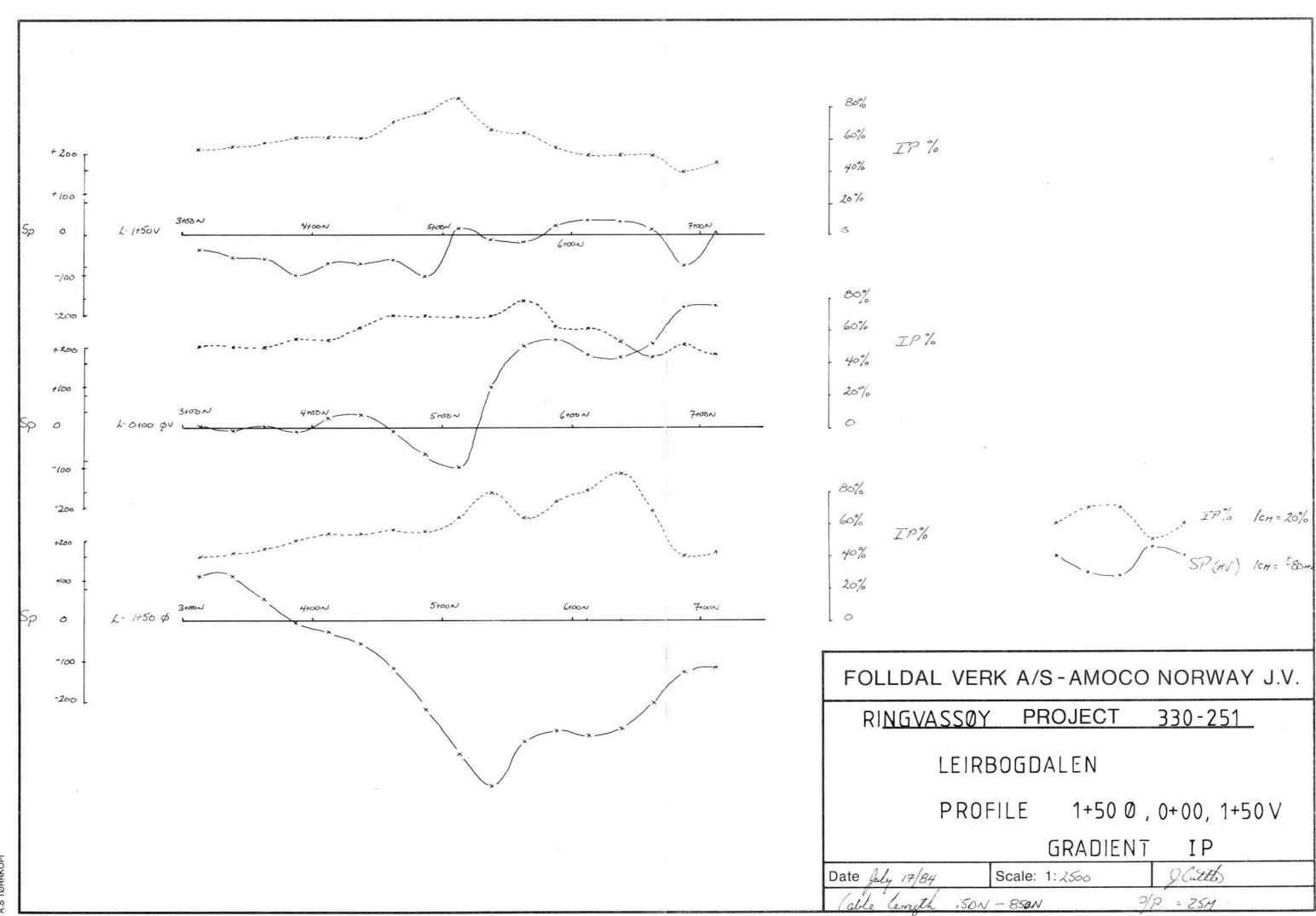


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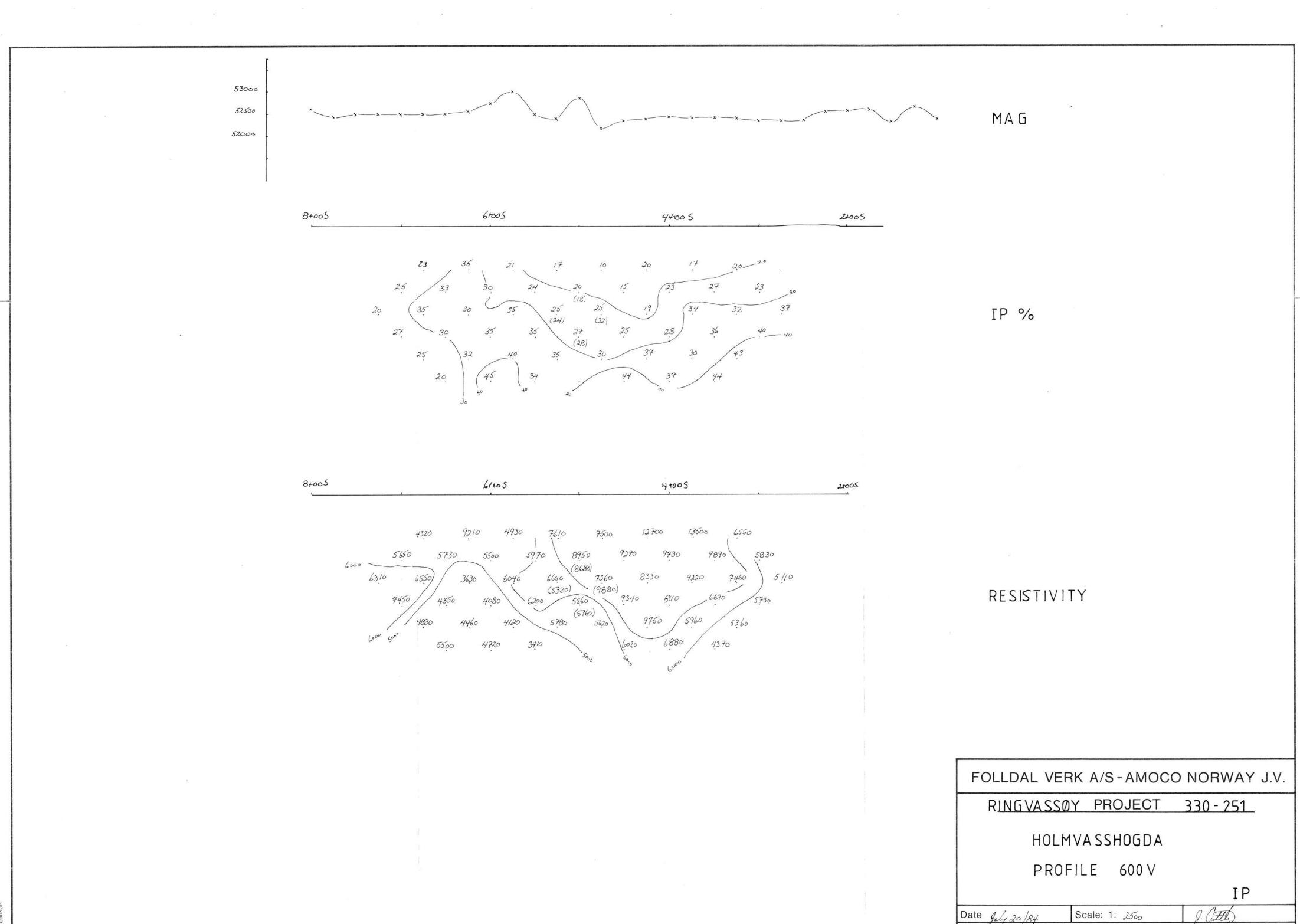
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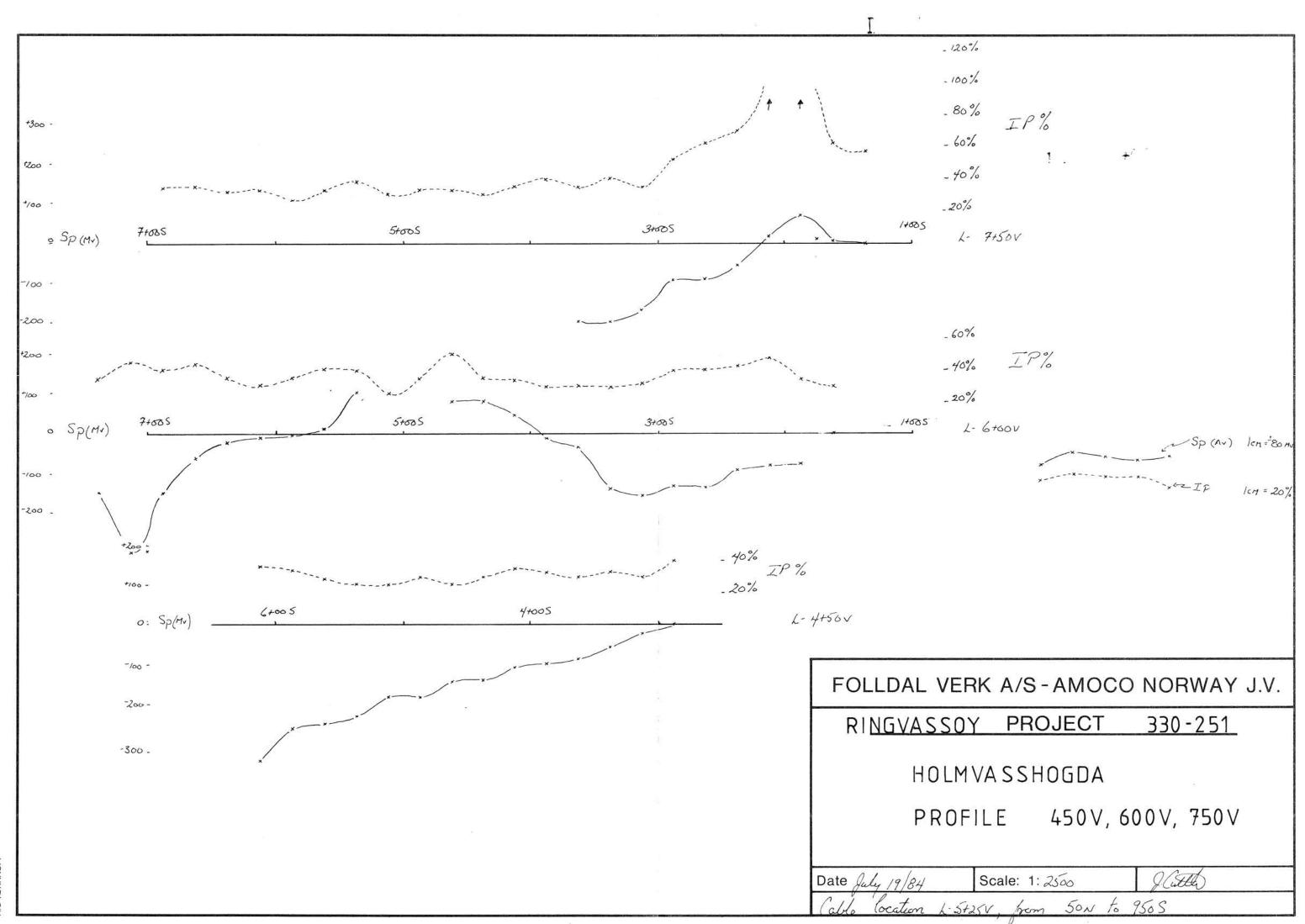
Dipole-dipole 504



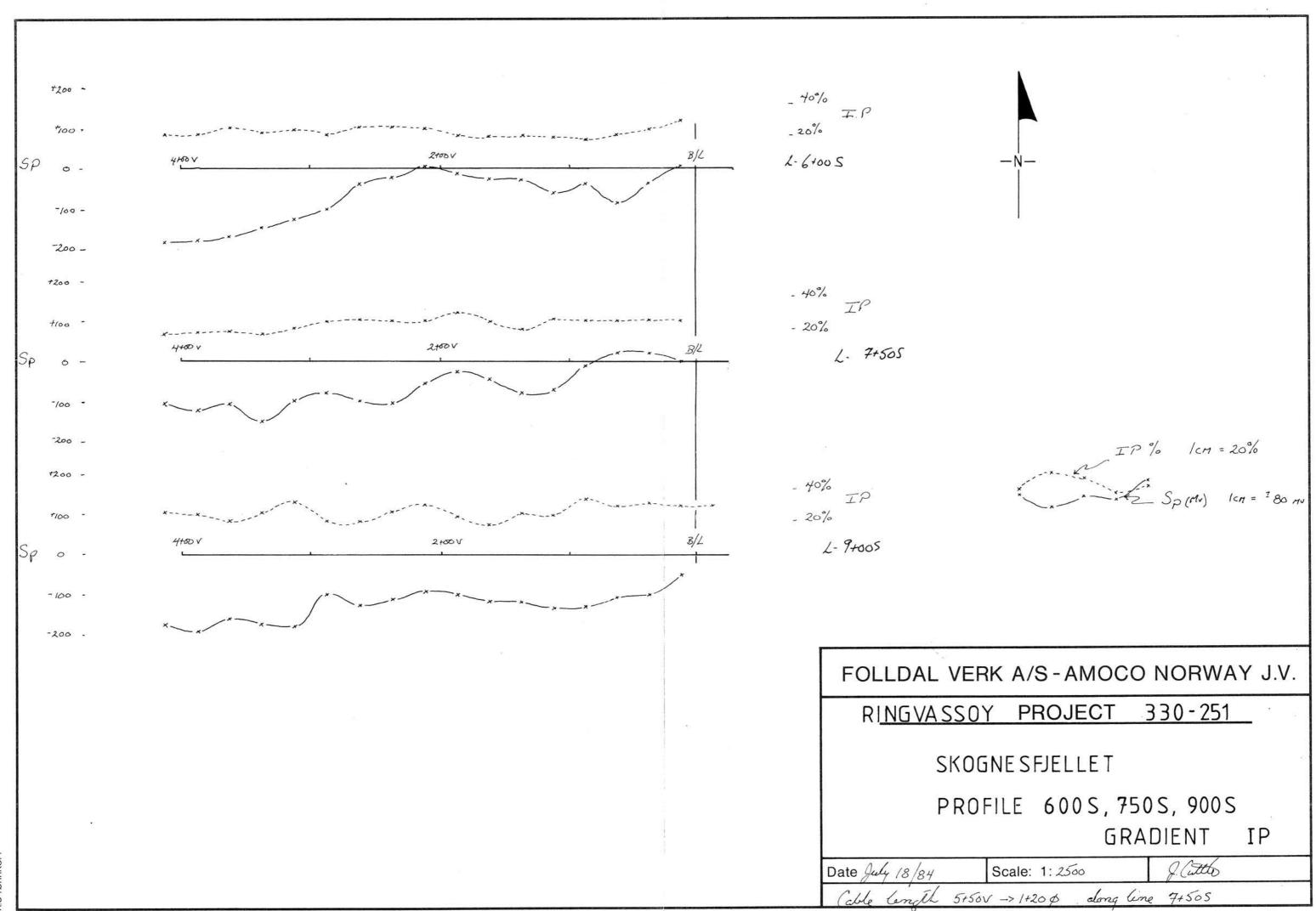
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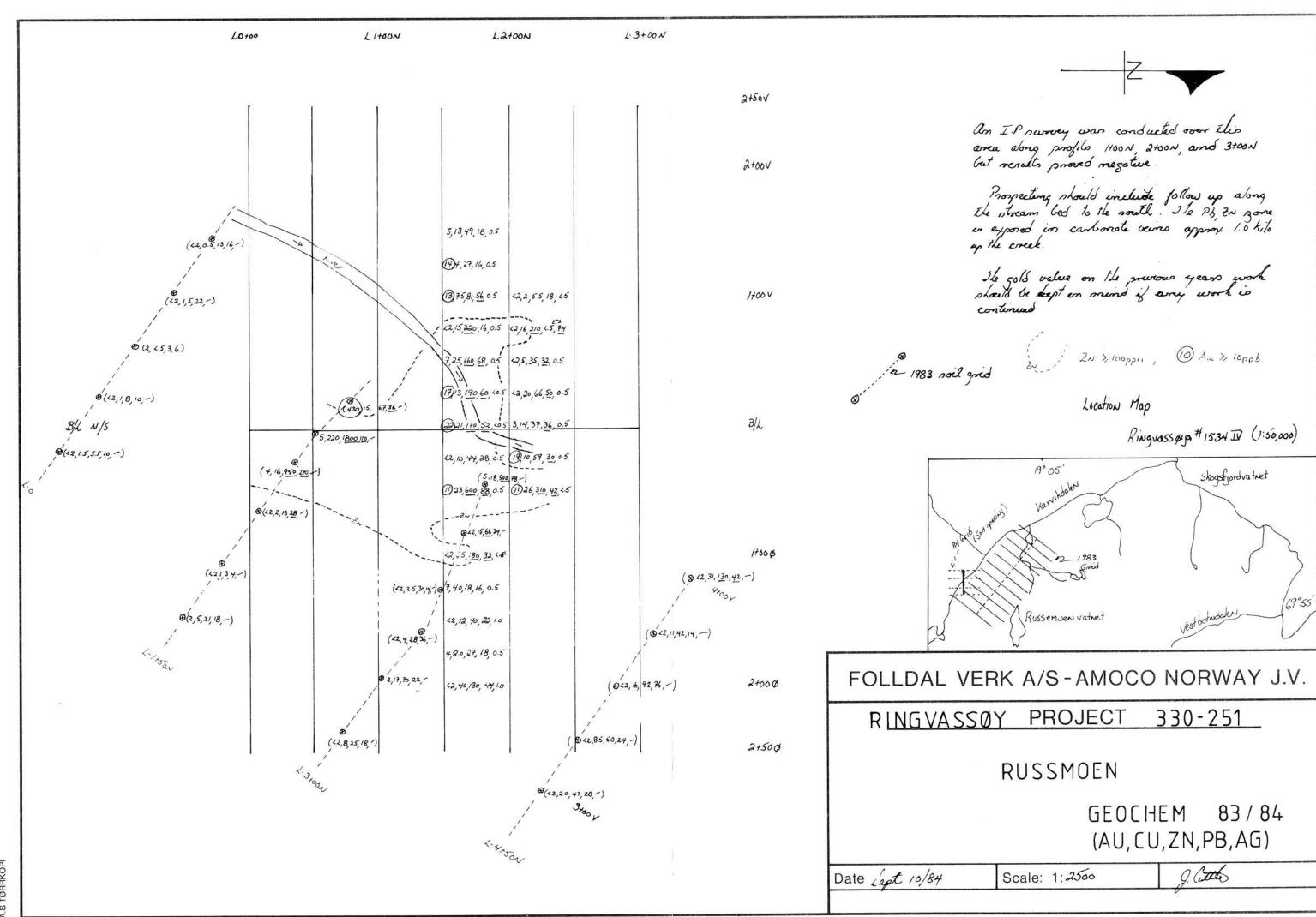
Dupole - Sipole 50M



STORRKOPI



STORRKOPI



FOLLDAL VERK A/S-AMOCO NORWAY J.V.

Ringrassoy - PROJECT- N-82-3

RUSSEMOEN

1P-SURVEY LINE 100N

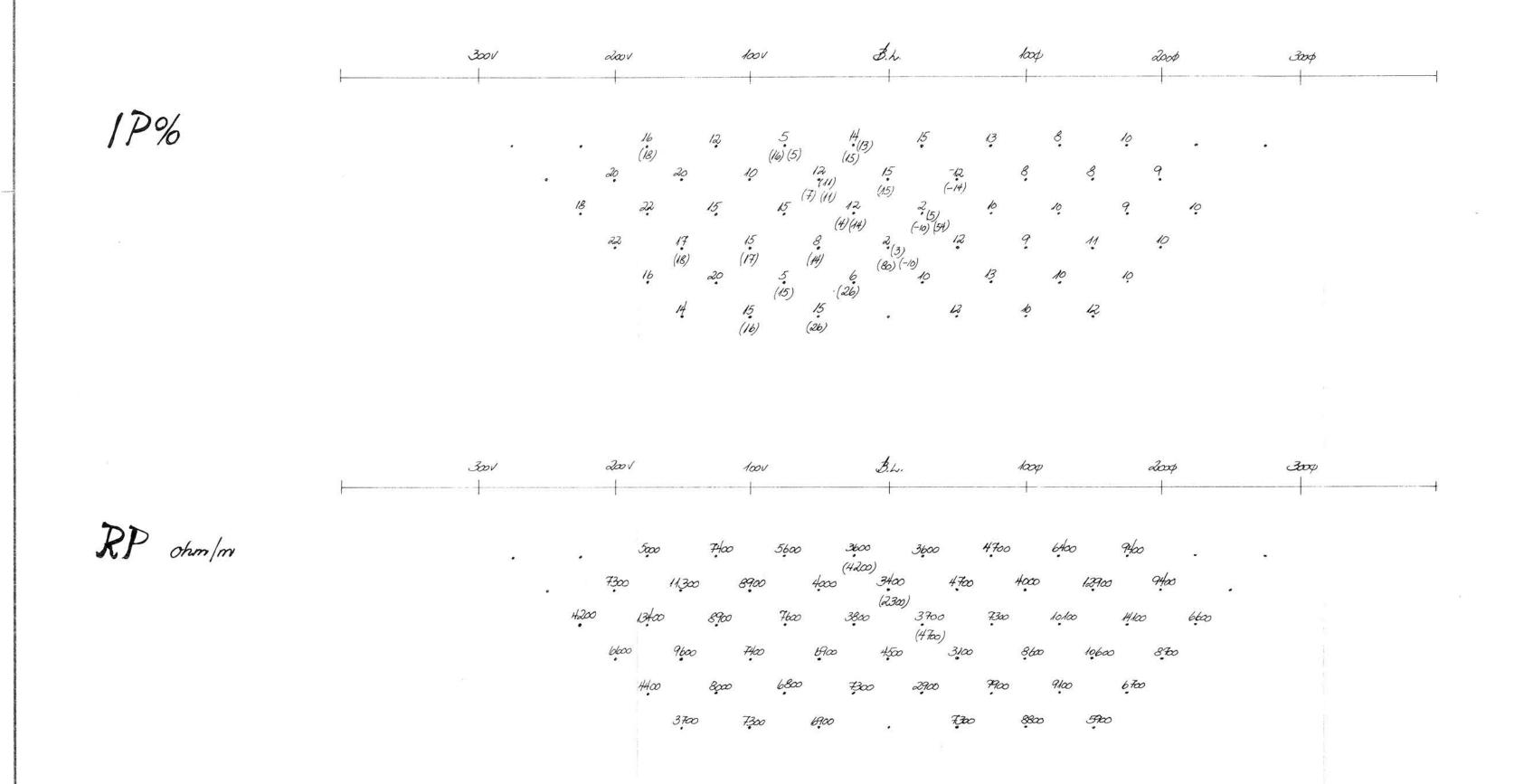
Dipole-Dipole a=50ml

Date 13.8.1984

Scale: 1: 25a

Telek

A.S TORRKOPI



FOLLDAL VERK A/S-AMOCO NORWAY J.V.

RINGNASSOY -

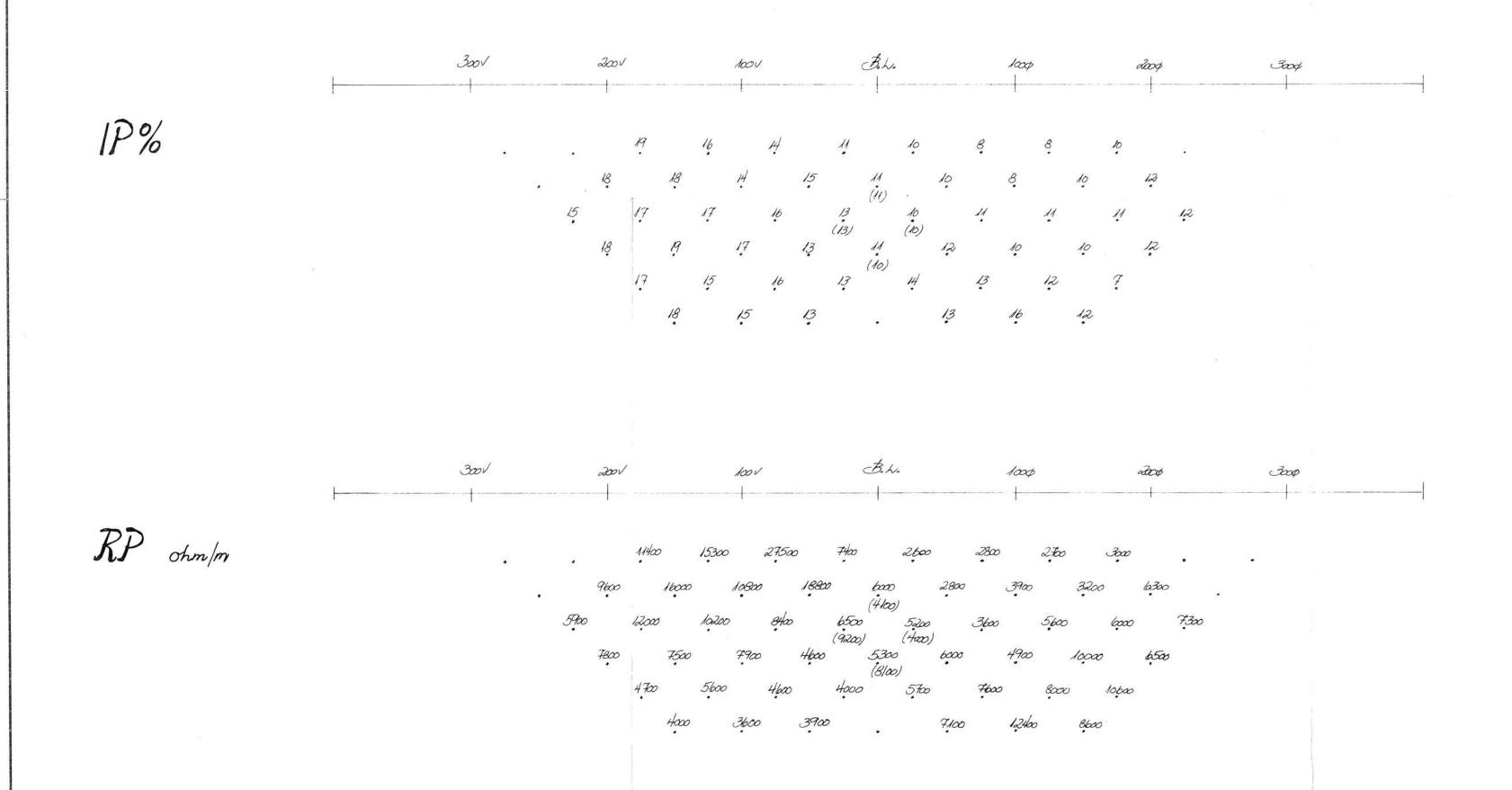
PROJECT - N - 82-3

RUSSEMOEN

1P-SURVEY LINE 2001

Tex Dahlu.

Date 13.8, 1984 Scale: 1: 2500



FOLLDAL VERK A/S-AMOCO NORWAY J.V.

£iNGVASSOY - PROJECT - N-82-3

RUSSEMOEN

IP-SURVEY Link 300N

Dipok-Dipok a=50ml

Date 13.8.1984 Scale: 1: 2500

Tax Dahen