



Bergvesenet

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Rapportarkivet

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Kommer fra ..arkiv Næringsdepartementet	Ekstern rapport nr Aspro 1542	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel Diamond drilling area 56 and 57 Kautokeino				
Forfatter Hagen, Ragnar		Dato 17.12 1984	Bedrift Prospektering A/S	
Kommune Kautokeino	Fylke Finnmark	Bergdistrikt Troms og Finnmark	1: 50 000 kartblad 18334	1: 250 000 kartblad
Fagområde Boring	Dokument type		Forekomster	
Råstofftype Malm/metall	Emneord Cu Au			
Sammendrag A new zone of Bidjovagge type copper-gold mineralization was discovered. The best intersection is 2.0 m with 1.62 % Cu and 1.36 ppm Au. Area 56 and 57 have been tied together and extended by supplementary ground geophysics. The area has got a potential for economic mineralization and further diamond drilling is recommended.				

Nr 627.



PROSPEKTERING

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INTERN RAPPORT.

DATO: 17.12.1984

RAPPORT NR: 1542

KARTBLAD 1833 IV

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SAKSBEARBEIDER

Ragnar Hagen

RAPPORT VEDRØRENDE:

Diamond drilling, area 56 and 57
Kautokeino. Joint venture Gulf/Sydvaranger.

RESYMÉ:

Follow up areas no 56 and 57 from the 1980
NGU geophysical helicopter survey are
situated 7 km south east of the Bidjovagge
Mine. They were tested in 1984 by 5 diamond
drill holes, totalling 463 m.

A new zone of Bidjovagge type copper - gold
mineralization was discovered. The best
intersection is 2,0 m with 1,62% Cu and 1,36
ppm Au.

Area 56 and 57 have been tied together and
extended by supplementary ground geophysics.
The area has got a potential for economic
mineralization and further diamond drilling
is recommended.

FORDELING
OSLO:

KIRKENES:

ANDRE:

KOMMENTAR:

INTRODUCTION

Follow up area no 56 and 57 are situated around 7 km east south-east of the Bidjovagge Mine (Fig. 1), in the central parts of the Caskias greenstone group. The geophysical helicopter survey by NGU from 1980 indicated two converging EM conductors. The details of the EM anomalies were displayed by the Dighem processing of the NGU data (report no 1381). The EM interpretation map from the Dighem processing is shown in Fig. 2. The two follow up areas were placed at irregularities in the EM pattern (Fig. 2).

Geologist Jan S. Sandstad who did the regional mapping of this part of the greenstone belt recommended the area for follow up work (report no 1471). According to Sandstad the stratigraphic level of Bidjovagge may occur in an anticline in this area

GROUND SURVEYS

The original area 56 consisted of lines 200 N to 300 S in Fig. 3. Area 57 consisted of lines 1200 S to 1500 S (originally named 200 N to 100 S, see report no 1519). After the diamond drilling supplementary magnetic and slingram surveys tied the two areas together and the grid is now continuous over 2.4 km (Fig. 3). The results of the geophysical surveys will be discussed later in this report.

A detailed geological survey was also made. The area is heavily covered and no outcrops were found in the original grids. In the area of the supplementary survey there is one outcrop of meta diabase. Carbonatization and carbonate veins can be seen in the outcrop. To get more information boulder tracing of the area was carried out. To the north of line S 600 the area is dominated by two large drumlines with till thickness up to 30 m and mostly long-transported material in the till. In the southern part till thickness is only a few meters and boulders are often local rocks. No boulders of economic mineralization were found, but boulders of carbonatized meta diabase and albite felsite are good indicators of mineralization processes (Fig. 3).

In the western part of the area boulders of a pyrite rich, strongly weathered green tuff occur. The general direction of the ice-movement is from south to north. No study of local variations of the ice movement were made.

DIAMOND DRILLING

In the spring of 1984 three holes were drilled in area 57 and two holes in area 56. The total length of diamond drilling was 463.10 m. Location of drill holes are shown in Fig. 3. Drill hole sections are shown in Figs. 4 to 7. Core log reports and chemical analyses are presented in Encl. 1. Hole 56-1 was drilled to test the westernmost conductor. The drilling proved the conductor to be a steeply dipping graphite felsite (Fig. 4). The graphite felsite is associated with albite felsite and carbonate-rich rocks. The rock unit named "altered rock" in Fig. 4 is an albite-carbonate alteration of diabase. The "carbonate rock" in Fig. 4 is also more likely an alteration product than a sediment. Only weak copper mineralization occurs in graphite felsite and albite-carbonate rich rocks. The most interesting result of hole 56-1 is clearly the 2 m section of 0.97 ppm Au and 0.23% Cu in carbonate rock and altered rock. This very high gold to copper ratio is promising. The eastern limb of a possible anticline was tested with hole 56-2. The conductor is located under a drumline and the hole had to be pulled far back (Fig. 5). After 105 m of green tuffs and some albite felsite the hole intersected 20 m of graphitic schist. No mineralization was found in this hole. A sharp magnetic anomaly coinciding with the conductor (Fig. 3) must be explained with the presence of a shallow boulder with high magnetic susceptibility.

Hole 57-2 intersects two main units of graphite felsite which corresponds with the two short conductors (Figs. 3 and 6). Also in this hole the graphite felsite is associated with albite felsite and albite carbonate alterations of the diabase. A two meter intersection of 1.62% copper and 1.36 ppm Au in albite carbonate altered diabase is ore grade quality. Also promising is one meter of 0.43 ppm Au with only 39 ppm Cu in albite felsite near the bottom of the hole.

Holes 57-1 and 57-3 tests the same zone in two sections, 200 m apart (Fig. 3). The conductor is a thin unit of graphite felsite (Figs. 6 and 7). The associated units of albite felsite and albite carbonate rock contains a weak copper mineralization with minor gold.

DISCUSSION

The geology of area 56 - 57 is very similar to the geology of the Bidjovagge Mine. The mineralization is clearly a Bidjovagge type copper - gold mineralization. It is likely that J.S. Sandstad's correlations between the stratigraphic level of this new area and Bidjovagge is correct.

An anticline structure is strongly indicated by magnetics and EM (Fig. 3). The lithologies of holes 57-1, 57-3 and 56-1 are somewhat different, but this can be ascribed to lateral variation. Holes 57-1 and 57-3 are likely situated closer to a center of hydrothermal activity.

The graphite felsite and mineralization intersected by hole 57-2 is believed to be a separate stratigraphic level, not structurally connected with the units in holes 57-1 and 57-3. The conductor of lines 1700 S to 1900 S may be correlated with the units intersected by hole 57-2.

With the interpretation presented here the conductor in hole 56-1 have to be a unit above the main zone.

The weak EM anomaly to the west of the main zone is probably caused by the pyrite-rich weathered tuff that can be seen in boulders in this area.

Area 56 and 57 represent a new zone of Bidjovagge type mineralization. The five holes described in this report indicate that the zone has got a potential for economic mineralization. The most interesting area is between lines 500 S and 900 S (Fig. 3). The magnetic low along the EM conductor in this area may be caused by loss, of magnetite in the greenstone by hydrothermal alteration. A similar but smaller magnetic low is seen in association with mineralization in the area of hole 57-1 and 57-3. With reference to the short conductors with mineralization of hole 57-2, the satellite conductor of lines 700 S and 800 S is interesting. The area between lines 500 S and 900 S is further enhanced by the weak western conductor. The pyrite mineralization in the tuff may represent the last phase of a waning hydrothermal system.

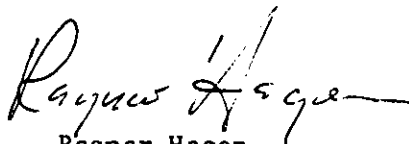
The second area with a potential is the conductor of hole 56-1. In this hole the mineralization is magnetite bearing so the center of mineralization cannot be indicated by a magnetic low. The large thickness of overburden of the northern part of the grid also makes the magnetics less useful. The good gold values of hole 56-1 does however warrant further drilling towards north along this zone.

The geophysical pattern between lines 1500 S and 1800 S is complicated. Experience from Bidjovagge prove that geophysical breakes like the one between 1500 S and 1700 S are favourable for this type of mineralization. Large EM amplitudes and steep magnetic gradients prove that the till is thin and this area can be investigated by shallow till sampling.

The helicopter data from the continuation of the two limbs of the anticline towards south should be studied carefully to find new areas for follow-up work.

The results from area 56 and 57 show that the exploration method of an advanced processing of the helicopter geophysics combined with good geological mapping produces the necessary data to recognize good target areas. The Max Min II slingram survey combined with a detailed magnetic ground survey supply data suitable for selecting drilling targets.

Stabekk, 17. desember 1984


Ragnar Hagen

Kjerneobservasjoner.

Borhull nr. 56-i

Profil

Koordinator: Y 100 S

X 365 W

På satt i høyde 462 m.

• i retning 100^g• med helning 45^o

Borhullets lengde 103.45 m

Boret meter	Bergart	Kjerne- mangel	Skiffrighet	Bergart prøve
0-26.00	Jordboring			
26.00-48.60	Meta-tuff., finkornig, båndet, grønn. Mt i tynne bånd og disseminert. Også tynne py-årer m. karb. Lokalt forvitret m. -farge. 37.70-39.00: Omv., lysere b.a. til dels fels-lignende m. opptil 10 cm brede karb.årer. Spor cp i karb. v/39.90, 46.60 og 47.60.		27.50: 45 ^o 36.30: 60 ^o 39.60: 65 ^o	
48.60-54.50	Albittfels, finkornig, grå, massiv. Inneh. karb.årer og slirer m. noe py. Lokale tuff-soner. Rikelig py siste 0.3 m. Avtagende mt-innh. mot 54.45. Høy mt 54.45-54.50.			
54.50-71.30	Grafitfels, tett finkornig, oppknust. Inneh. tynne årer og slirer av karb. + py + albitt. Tildels høy C. Meget lavt mt-innh. Albittfels-sone 56.60 - 56.80. Spor cp fra omlag 61.00. Cp m. py i karb.årer.		62.60: 40 ^o	
71.30-71.70	Albittfels, finkornig, rødlig. Breksjert. Noe py. Lite mt.			
71.70-77.60	Albittb.a. (leucodiabas). Omv. diabas ? Middelskornig, massiv, breksjert. Inneh. karb. årer py, spor cp. Tildels mt-rik.			
77.60-80.20	Karbonatb.a. Massiv, uren, grov-middelsk. Pyholdig, spor cp. Noe mt.			
80.20-86.00	Albittfels, uren m. mye karb. Inneh. py og spor cp, lite mt. Qz-årer v/81.70 og 81.90. Fra 84.00 overgang til metatuff m. økende mt. innh.		82.20: 80 ^o	
86.00-103.45	Meta-tuff. Grønn, middelsk.-fink. båndet. Inneh. karb.årer og lyse felslikn. partier. Noe py, særlig i karb.årene og i lyse partier. Mt-py-karb.-soner 93.90 - 95.20 og 96.60 - 96.85. Hullet avsluttet v/103.45 m. 09.07.84.			

Kjerneobservasjoner.

Borhull nr. 56-2

Profil

Koordinator: Y 300 S

X 125 E

Plasert i høyde 455 m.

• i retning 300⁸• med helning 45⁰

Borhullets lengde 137,40 m

Boret meter	Bergart	Kjerne- mangel	Skiffrighet	Bergart prøve
0-36.30	Jordboring			
36.30-43.80	Meta-tuff. Finkornig, grønn, diffus lagning Mt-rik. 40.25-40.35: Massiv, middelsk. Mt-py-karb.sone Inneh. spredte tynne karb.årer Siste 2 m: Spredte py-porfyroblaster.		43.50: 40 ⁰	
43.80-47.50	Albittfels, grønn-grå, uren. fink. Spredte albitt-karb.årer, litt py.		47.25: 60 ⁰	
47.50-52.40	Meta-tuff. Grønn, finkornig. 5 mm-store karb.-porfyroblaster. Også karb. disseminert og i årer.			
52.40-60.85	Albittfels, grønn-grå finkornig, tildels uren. Spredte py-blaster. Mt-rik.		53.30: 45 ⁰ 57.50: 50 ⁰	
60.85-103.40	Meta-tuff. som 47.50-52.40. Lokalt felslignende. Litt py i spredte karb.- albitt-årer. Mt-rik. 91.40-91.50: Mt-py-karb. massiv, grovk. m. spor cp. Siste 2 m: Grafitt-holdige bånd.		67.10: 45 ⁰ 84.40: 50 ⁰ 97.35: 45 ⁰	
103.40-105.25	Overgangsb.a. Grafittskifer - karbonatb.a. middelsk. dels lagdelt.			
105.25-126.00	Grafittskifer, finkornig, tildels høyt gra- fittinnh. Oppknust m. glidespeil. Inneh. karb. slirer m. noe py.		106.20: 60 ⁰	
126.00-132.80	Metabasalt. Massiv middelsk. Første 2,5 m: Lys feltsp.b.a. (omv) m. py. Lavt Mt-innh.			
132.80-137.40	Karb.b.a., uren, grumsete, oppknust. Lokale soner m. tuffitt. Lokalt også fels-soner. Lite Mt.			
	Hullet avsluttet v/137.40 m.			

Kjerneobservasjoner.

Borhull nr. 57 - 1
 Koordinator: Y ON (14005)
 Påsatt i høyde 440 m.
 « i retning 1008
 « med helning 45°
 Borhullets lengde 75,50 m

Profil
 X 175 W (25E)

Boret meter	Bergart	Kjerne- mangel	Skiffrighet	Bergart prøve
0 - 7,50	Jordboring			
7,50-14,40	Meta tuff, båndet, middelskornig, grønn. Lokale lyse partier. Litt py, særlig i årer med karb. og i lyse partier.		lagning 10,30 m: 65°	
14,40-32,20	Albittfels, finkornig, noe mørke silikater, lokalt båndet med tuff. Spredte karb.årer med py. Mt-rik 14,40-19.00. Foldestrukturer 25-26 m. Lokalt oppknust og forvitret.		lagning 16,40 m: 45°	
32,20-37,90	Albittfels, svakt grafittholdig. Tett, finkornig: Mm -store lyse spetter. Inneholder spredte karb. årer.		33,20 m: 75°	
37,90-39,00	Albittfels som 14,40-32,20. Inneholder spor av cp. Lokalt mt.			
39,00-39,60	Grafittfels. Høyt C-innhold. Oppknust 39,00-39,10. Massiv py og spor cp.			
39,60-42,00	Albittfels. Tett, finkornig. Tynne py -årer i tett nettverk. 41,70-42,00: Cp -mineralisering m/karb.			
42,00-63,00	Metadiabas, omvandlet. Lys middelsk., massiv feltspat, biotitt amfibol b.a. Py-rik. Py + spor cp i karb.årer til 46,00. Mt -holdig fra 47,50. Økende mt, og mindre omv. fra 50 m. Gradvis overgang til:			
63,00-75,50	Metabasalt. Mørk grønn, massiv middels- finkornig. Mt -rik. Spredte årer med py og karb.			
	Avsluttet 75,50 m.			

Ragnar Hagen

Kjerneobservasjoner.

Borhull nr. 57-2

Profil

Koordinator: Y 0 N (1400S)

X 65 W (135E)

På satt i høyde 425 m.

• i retning 100⁸• med helning 45⁰

Borhullets lengde 99.35 m

Boret meter	Bergart	Kjerne- mangel	Skiffrighet	Bergart prøve
0- 7.50	Jordboring			
7.50-21.60	Albittbergart (leucodiabas), massiv fin- middelskornig, lys, urene soner m. mørke sili- kater. Inneh. py + mt, tildels massive slirer m. mt.			
21.60-35.00	Metadiabas, massiv, middelsk. mt-rik, dels mt i slirer. Inneh. karbonat-årer.			
35.00-38.60	Metadiabas, omvandlet. Lys, finkornig. Inneh. py og spor cp.			
38.60-40.00	Albittfels, tett finkornig, brun. Lokalt m. lavt innh. av grafitt. Inneh. noe cp. Svært lite mt.			
40.00-58.90	Grafittfels, finkornig, middels grafittinnh. Soner m. albittfels med litt py ved: 41.60-42.00 43.95-45.05 45.75-46.50 50 -55: Knusesone m. veksling mellom al- bittfels og grafittfels, tildels massiv py v/52-53 m. Lavt grafittinnh. 55-58.90 m.		40.60: 60 ⁰ 47.45: 70 ⁰	
58.90-73.00	Albittfels, brun, tett. inneh. litt py. Oppknust, lokalt rødlig farge.		71.60: 45 ⁰	
73.00-87.90	Grafittfels, finkornig, tildels høyt grafitt- innh., litt py. Oppknust.			
87.90-97.50	Albittfels, brunlig, finkornig. Gradvis overgang fra grafittfels. Inneh. litt py		88.90: 40 ⁰	
97.50-99.35	Grønnstein, massiv middelskornig mt-rik. Hullet avsluttet v/99.35 m. 09.07.84 Ragnar Hagen			

Kjerneobservasjoner.

Borhull nr. 57-3

Profil

Koordinator: Y 200 N (1200 S)

X 173 W (0)

Påstatt i høyde 440 m.

• i retning 100°

• med helning 45°

Borhullets lengde 47.40 m

Boret meter	Bergart	Kjerne- mangel	Skiffrighet	Bergart prøve
0-12.00	Jordboring			
12.00-30.15	Meta-tuff., finkorning, grønn, Mt-rik. Uklar lagning. Spredte karb.årer m. py og mt samt spor cp. Økende innh. av karb.årer ca. 26 m		16.70: 60°	
30.15-30.85	Albittfels, finkorning, grå m. karb. og litt py			
30.85-35.00	Grafittfels, oppknust, litt py.			
35.00-47.40	Albittfels, grå-brun uren, finkornig. 35-36: py-rik 36-38: spor cp. Lokalt en diffus lagning.		37.40: 50°	
	Hullet avsluttet v/47.40 m p.g.a. ras.			
	09.07.84			
	Ragnar Hagen			

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DATE: 22 JUNE 1984
ATTN: RAGNAR HAGEN
FROM: MERCURY ANALYTICAL LTD

RESULTS OF CORE SAMPLES

SAMPLE NO.	CU	CO	NI	ZN	PB	FE	AG	AU
57-1								
DEPTH								
23-24	356	374	474	49	28	7.92	''	''
24-25	1222	438	435	30	40	7.02	''	0.02
25-26	2650	140	524	35	29	5.23	''	0.05
26-27	2650	140	524	35	29	5.23	''	0.05
27-28	2650	140	524	35	29	5.23	''	0.05
28-29	2650	140	524	35	29	5.23	''	0.05
29-30	2650	140	524	35	29	5.23	''	0.05
30-31	2650	140	524	35	29	5.23	''	0.05
31-32	2650	140	524	35	29	5.23	''	0.05
32-33	2650	140	524	35	29	5.23	''	0.05
33-34	2650	140	524	35	29	5.23	''	0.05
34-35	2650	140	524	35	29	5.23	''	0.05
35-36	2650	140	524	35	29	5.23	''	0.05
36-37	2650	140	524	35	29	5.23	''	0.05
37-38	2650	140	524	35	29	5.23	''	0.05
38-39	3700	145	380	46	26	3.26	''	0.16
39-40	2060	719	946	31	33	12.20	''	-0.02
40-41	4050	860	775	39	31	14.45	''	-0.02
41-42	16000	586	741	53	40	22.00	0.6	0.10
42-43	2100	225	364	30	29	6.67	0.2	-0.02
43-44	3800	150	230	52	39	5.53	''	0.02
44-45	1683	288	399	61	34	9.36	''	-0.02
45-46	4100	279	282	39	42	8.82	''	-0.02

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MAL EI

SORRY ABOUT THAT THE TAPE GOT STUCK.

BEST REGARDS.

PETER CAZALET

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12.34 *
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15 AUG 1984
FOR RAGNAR HAGEN
FROM MERCURY ANALYTICAL LIMERICK

DRILL CORE SAMPLES

Ragnar

SAMPLE	CU	PB	ZN	FE	NI	CO	AG
) 56 - 1							
46 - 47	304	31	51	8.23	92	61	-0.1
XXXXXX	XXX	88	88	88			
47 - 48	114	29	55	7.78	107	38	-0.1
48 - 49	19	32	40	7.21	134	112	-0.1
49 - 50	194	40	51	4.43	180	275	-0.1
50 - 51	159	23	28	5.85	117	187	-0.1
51 - 52	169	38	20	4.52	124	116	-0.1
52 - 53	171	38	19	3.21	81	67	-0.1
53 - 54	289	36	21	2.64	126	71	-0.1
54 - 55	983	58	32	1.86	391	231	-0.1
55 - 56	66	34	56	1.22	74	14	-0.1
56 - 57	1578	55	246	3.75	450	123	-0.1
57 - 58	892	41	413	3.06	177	232	-0.1
58 - 59	956	74	241	2.90	334	259	-0.1
59 - 60	92	32	59	0.90	58	15	-0.1
60 - 61	87	42	25	1.44	106	72	XXXXX -0.1
61 - 62	1222	36	81	2.71	162	94	-0.1
62 - 63	1260	54	77	2.88	303	433	-0.1
63 - 64	490	41	54	2.37	158	140	-0.1
64 - 65	250	108	72	2.73	188	47	-0.1
65 - 66	1709	33	158	3.34	260	112	-0.1
66 - 67	1060	21	23	2.83	142	117	-0.1
67 - 68	2274	68	775	11.40	2 DELETE THIS LINE		
67 - 68	2274	68	775	11.40	385	666	-0.1
68 - 69	131	16	32	1.01	27	14	-0.1
69 - 70	286	32	63	2.16	106	54	-0.1
70 - 71	237	28	43	2.46	123	162	-0.1
71 - 72	2797	52	99	11.31	420	507	-0.1
72 - 73	980	15	39	2.96	624	571	-0.1
73 - 74	137	19	30	13.35	95	48	-0.1
74 - 75	78	25	43	8.30	73	44	-0.1
75 - 76	423	15	24	8.76	89	110	-0.1
76 - 77	321	19	29	6.84	94	87	-0.1
77 - 78	1803	37	25	6.36	176	299	-0.1
78 - 79	2917	66	43	11.57	442	652	-0.1
79 - 80	990	66	47	11.33	637	1031	-0.1
80 - 81	69	41	38	8.72	37	633	-0.1
81 - 82	26	29	25	6.80	87	116	-0.1
82 - 83	16	33	29	7.39	90	81	-0.1
83 - 84	78	31	35	11.70	91	74	-0.1
84 - 85	59	29	35	10.80	89	93	-0.1
85 - 86	95	33	27	6.69	131	106	-0.1
86 - 87	155	27	24	7.80	112	195	-0.1

56 - 2

57 - 58	534	24	19	4.66	79	70	-0.1
DELETE ABOVE LINE							
57 - 58	534	24	19	4.66	79	70	1.3
58 - 59	580	30	28	6.55	120	72	-0.1
90 - 91	1700	38	36	14.85	123	182	-0.1
106 - 107	624	28	13	2.77	414	50	-0.1
107 - 108	304	29	14	2.38	394	3	-0.1
126 - 127	435	36	27	3.88	34	40	-0.1
127 - 128	220	40	16	3.83	17	54	-0.1

57 - 2

18 - 19	76	34	18	8.40	116	62	-0.1
19 - 20	17	45	16	11.05	98	55	1.4
35 - 36	67	23	17	5.50	68	116	0.9
36 - 37	810	31	17	4.95	102	207	-0.1
37 - 38	12,775	44	25	11.60	115	205	-0.1
38 - 39	19,750	16	15	2.28	96	33	-0.1
39 - 40	2,988	24	10	2.86	272	391	-0.1
40 - 41	138	13	17	0.57	41	10	-0.1
41 - 42	1,834	17	12	2.47	136	132	-0.1
42 - 43	1,028	18	11	1.70	226	56	-0.1
43 - 44	2,351	22	19	1.24	141	145	-0.1
44 - 45	1,977	45	13	1.31	159	510	-0.1
51 - 52	1,222	36	27	1.44	118	329	-0.1
52 - 53	961	60	22	3.44	205	461	-0.1
61 - 62	1,883	12	10	1.51	53	87	-0.1
62 - 63	1,922	30	16	1.63	122	469	-0.1
72 - 73	1,838	38	18	2.29	305	115	-0.1
95 - 96	39	41	23	4.22	37	211	-0.1
96 - 97	44	29	18	2.95	19	14	-0.1

57 - 3

35 - 36	5,785	42	16	3.40	1670	470	-0.1
36 - 37	4,455	56	33	4.48	250	124	-0.1
37 - 38	4,334	47	27	4.03	146	150	-0.1
38 - 39	209	47	24	4.61	205	72	-0.1

GOLD RESULTS TO FOLLOW.

BEST REGARDS,
PETER CAZALET+

*
72987 aspro n
70128 MAL EI

72987 asoro n
70128 MAL EI

16 AUG 1984
FOR RAGNAR HAGEN
FROM MERCURY ANALYTICAL
LIMERICK

DRILL CORE SAMPLES
=====

SAMPLE NO.

AU

56 - 1
=====

46 - 47	0.02
47 - 48	-0.02
48 - 49	-0.02
49 - 50	0.02
50 - 51	0.02
51 - 52	0.02
52 - 53	-0.02
53 - 54	0.02
54 - 55	-0.02
55 - 56	-0.02
56 - 57	-0.02
57 - 58	-0.02
58 - 59	-0.02
59 - 60	-0.02
60 - 61	-0.02
61 - 62	-0.02
62 - 63	-0.02
63 - 64	-0.02
64 - 65	-0.02
65 - 66	-0.02
66 - 67	-0.02
67 - 68	-0.02
68 - 69	-0.02
69 - 70	- . DELETE THIS LINE
69 - 70	-0.02
70 - 71	-0.02
71 - 72	0.03
72 - 73	0.08
73 - 74	-0.02
74 - 75	-0.02
75 - 76	0.05
76 - 77	0.03
77 - 78	0.69
78 - 79	1.25
79 80 DELETE THIS LINE	
79 - 80	0.07
80 - 81	0.08
81 - 82	0.11
82 - 83	0.03
83 - 84	0.03
84 - 85	- DELETE THIS LINE
84 - 85	-0.02
85 - 86	-0.02
86 - 87	0.05

56 - 2
 =====
 57 - 58 -0.02
 58 - 59 -0.02
 59 - 60 DELETE THIS LINE
 90 - 91 -0.02
 106 - 107 -0.02
 107 - 108 -0.02
 126 - 127 -0.02
 127 - 128 -0.02

57 - 2
 =====
 18 - 19 -0.02
 19 - 20 -0.02
 35 - 36 -0.02
 36 - 37 0.03
 37 - 38 2.55
 38 - 39 0.17
 39 - 40 0.16
 40 - 41 -0.02
 41 - 42 0.05
 42 - 43 -0.02
 43 - 44 0.03
 44 - 45 0.08
 51 - 52 0.02
 52 - 53 0.02
 61 - 62 0.06
 62 - 63 0.12
 72 - 73 -0.02
 95 - 96 0.43
 96 - 97 -0.02

57 - 3
 =====
 35 - 36 0.03
 36 - 37 0.06
 37 - 38 0.21
 38 -3 DELETE THIS LINE
 38 - 39 -0.02

BEST REGARDS,
 PETER CAZALET+

*
 72987 aspro n

FIG. 1.

LEGEND :

Allochthonous rocks

- 6 Nalganas and Tierta Nappes (Late Precambrian)

Autochthonous rocks

- 5 Dividal Group (Late Precambrian)

Precambrian rocks

- 4 Caravarrre sandstone

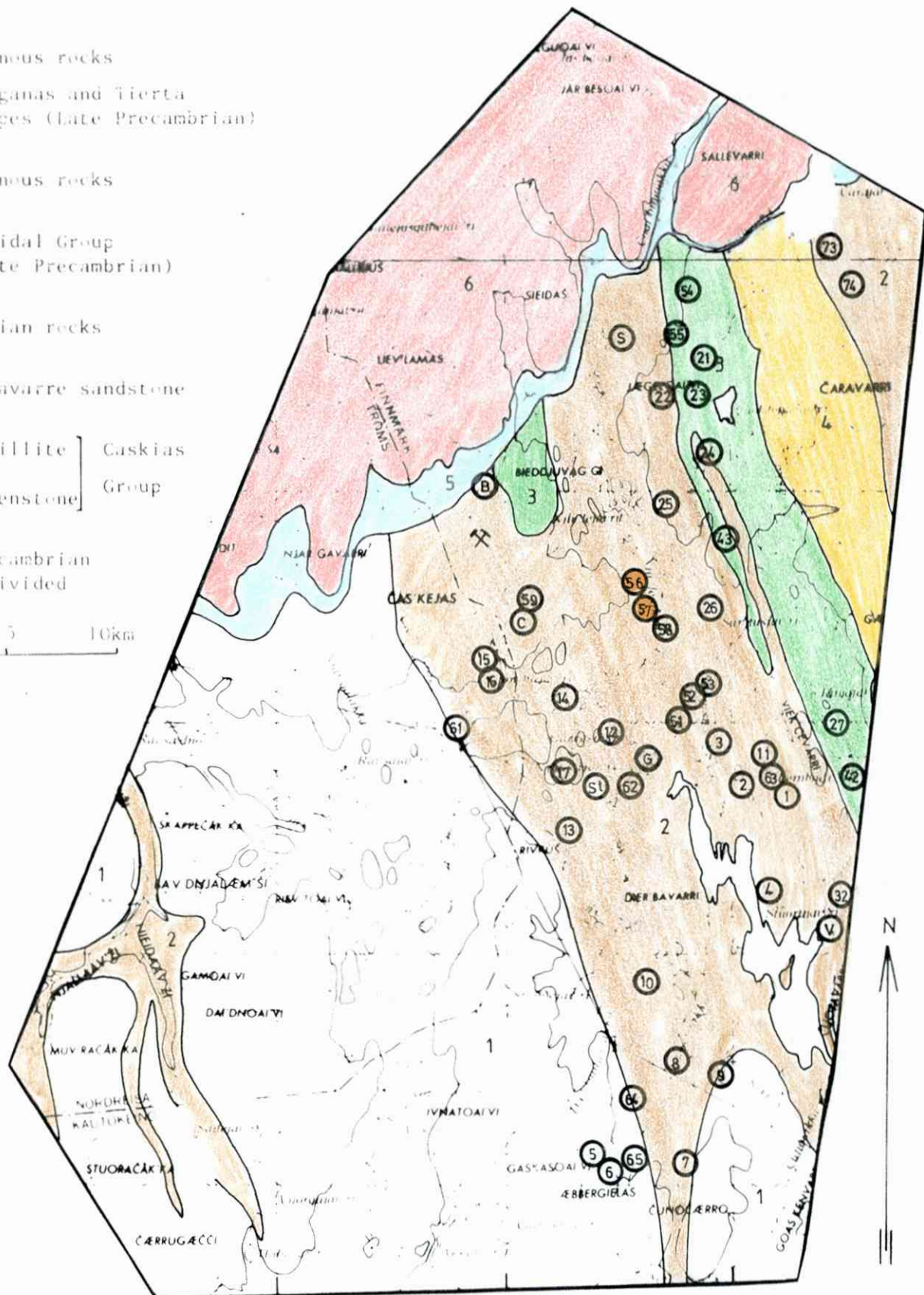
- 3 Argillite

Caskias Group

- 2 Greenstone

- 1 Precambrian undivided

0 5 10 km



① Follow-up area.

Joint venture Norwegian
Gulf - A/S Sydvaranger

PROSPEKTERING A/S

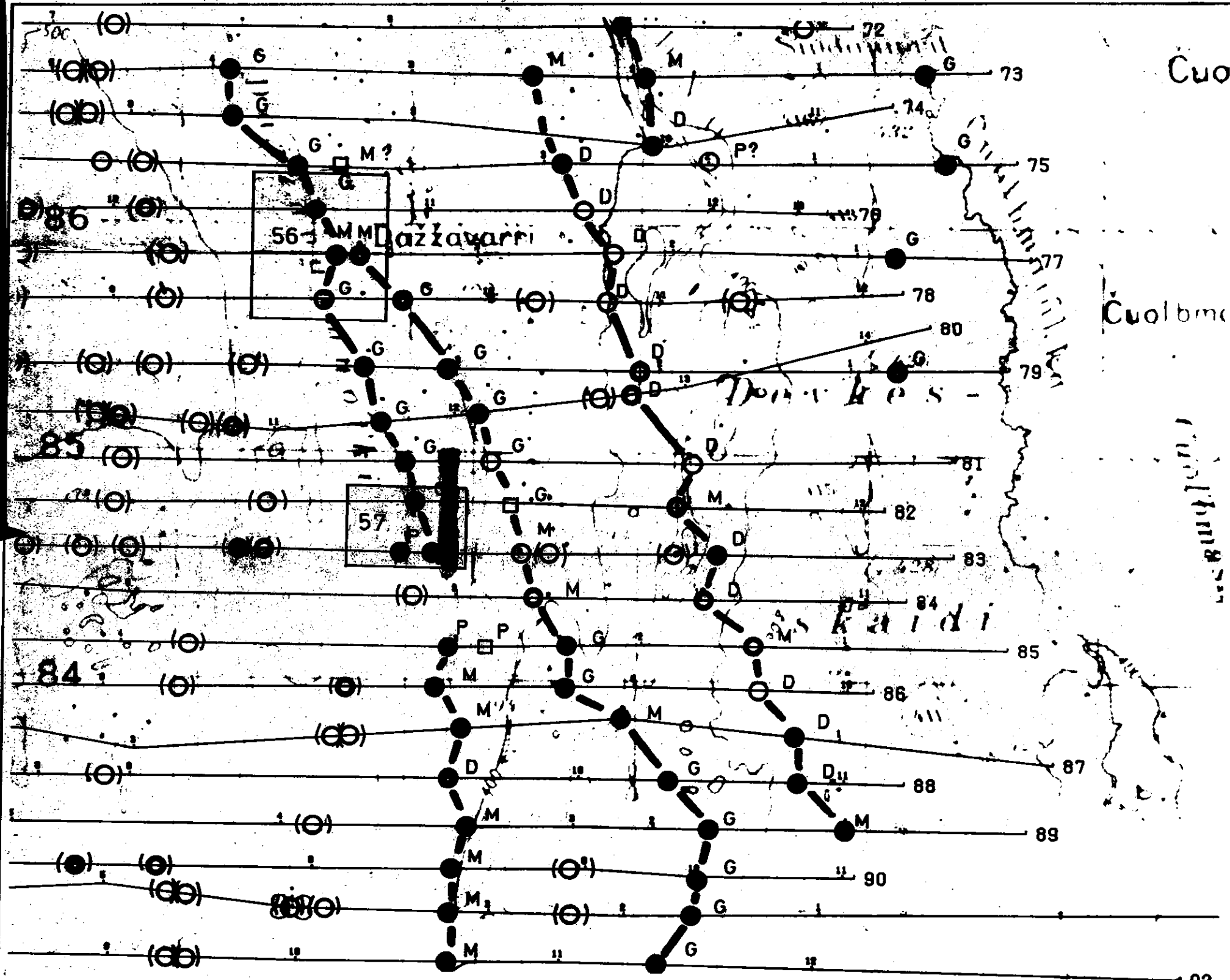
Scale

1:250 000

Trace

Fig 1.

Fig.
2.



LEGEND

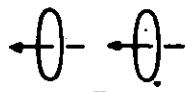
EM anomalies are graded as to the probability that they reflect bedrock conductors. There are four grades as follows:

Symbol	Probability Grade	Probability Rating
●	4	> 90%
◐	3	75-90%
◑	2	60-75%
○	1	40-60%

Vertical coaxial coils

Coil separation

Frequency



6.7 m

1000 Hz

EM interpretation

G Good conductor ($R/I > 2$)

M - Medium conductor ($1 < R/I < 2$)

D - Poor conductor ($R/I < 1$)

P - Quality of conductor undefined due to magnetic polarization.

□ Anomaly not recognized by Dighem's processing

(○) Anomaly caused by magnetic polarization or by conductive overburden.

⊗ Anomaly caused by noise.

? Interpretation uncertain.

○—○ Conductor axis.

○—○ Conductor axis, uncertain.

← Positioning error.

AREA 56, 57
Helicopter EM

M

1:20000

Målt:

Tegn: RH 12/64

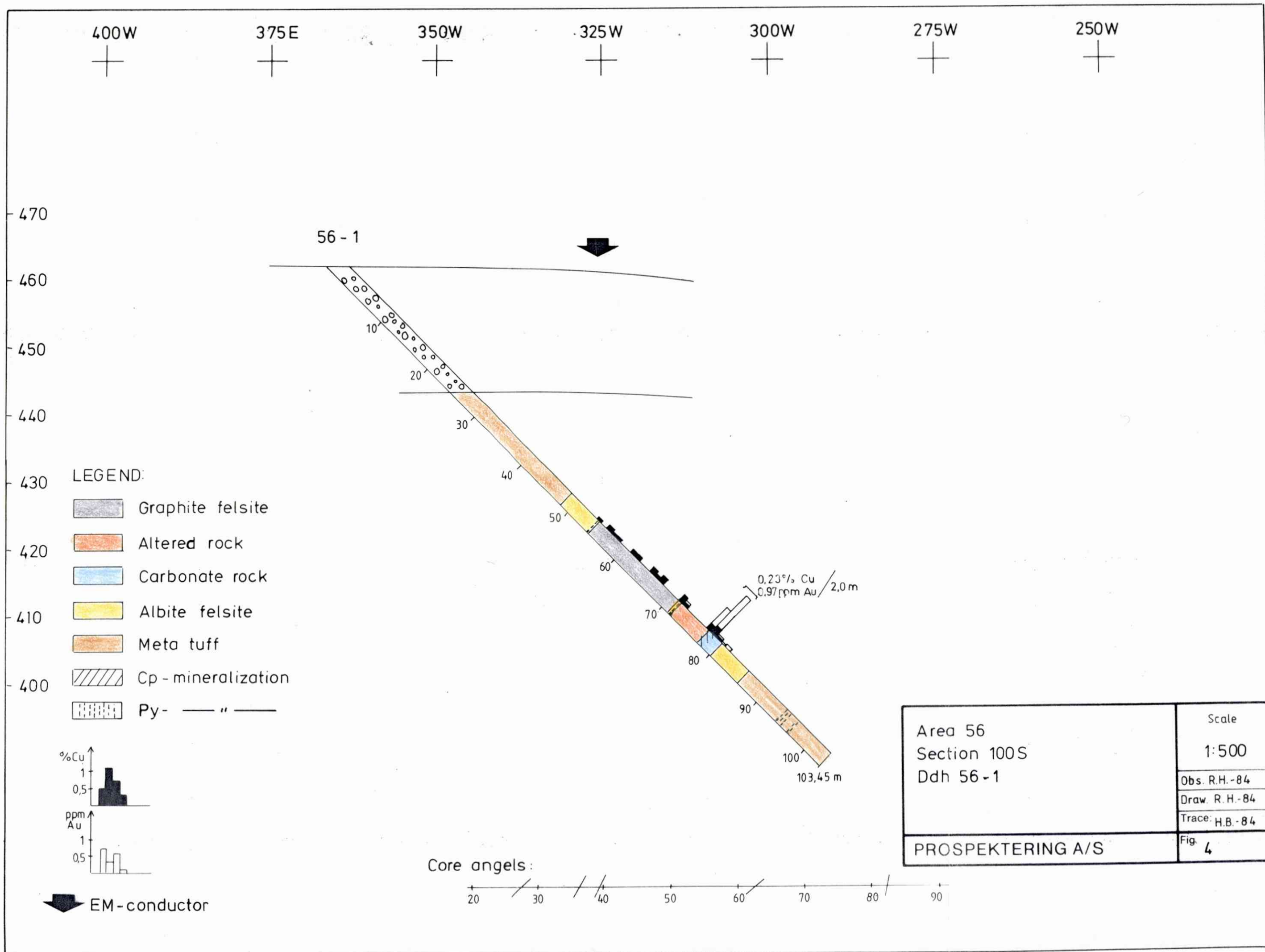
Trace:

PROSPEKTERING A/S

Fig. 2



Fig.
4



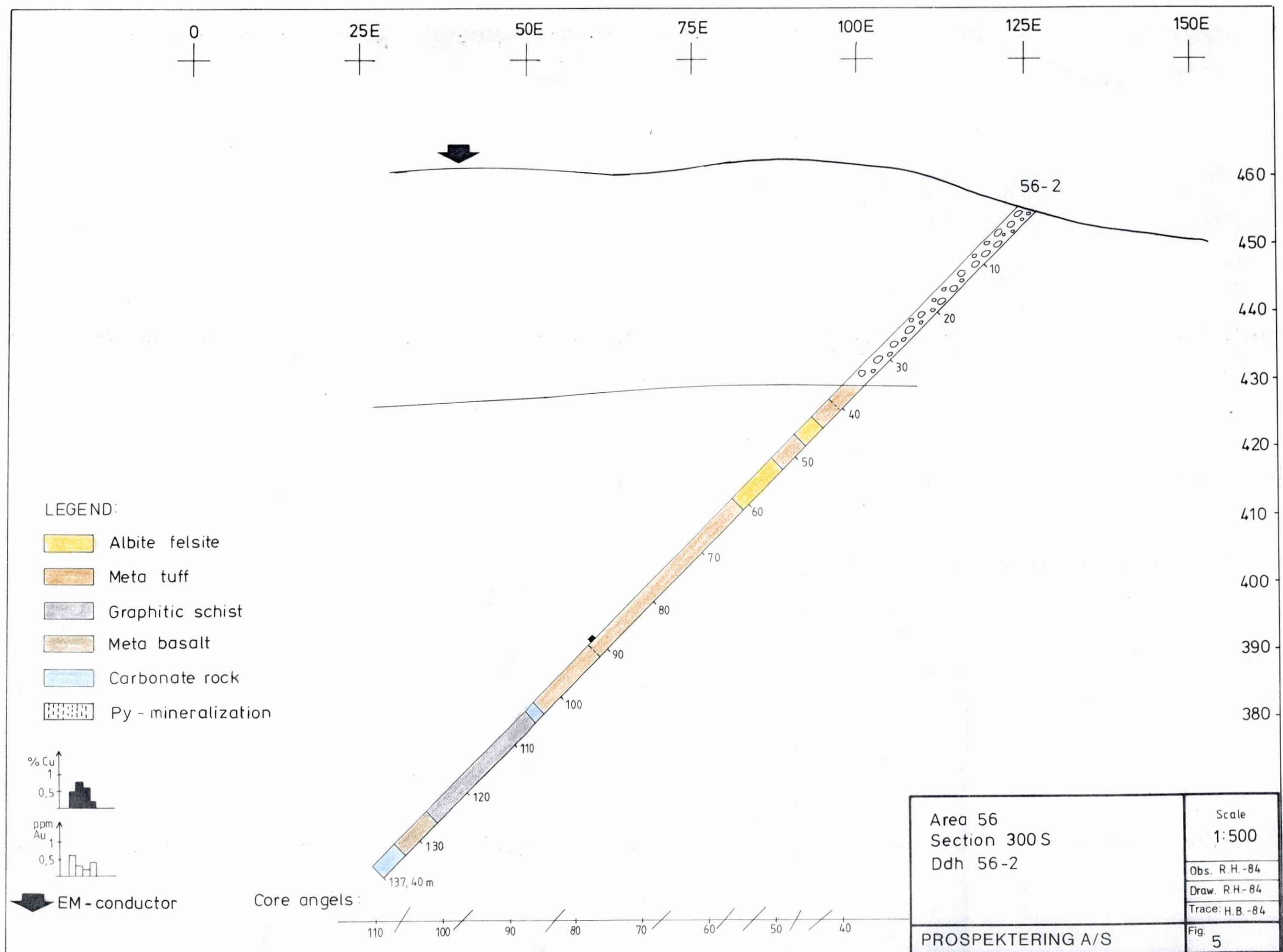


FIG. 6.

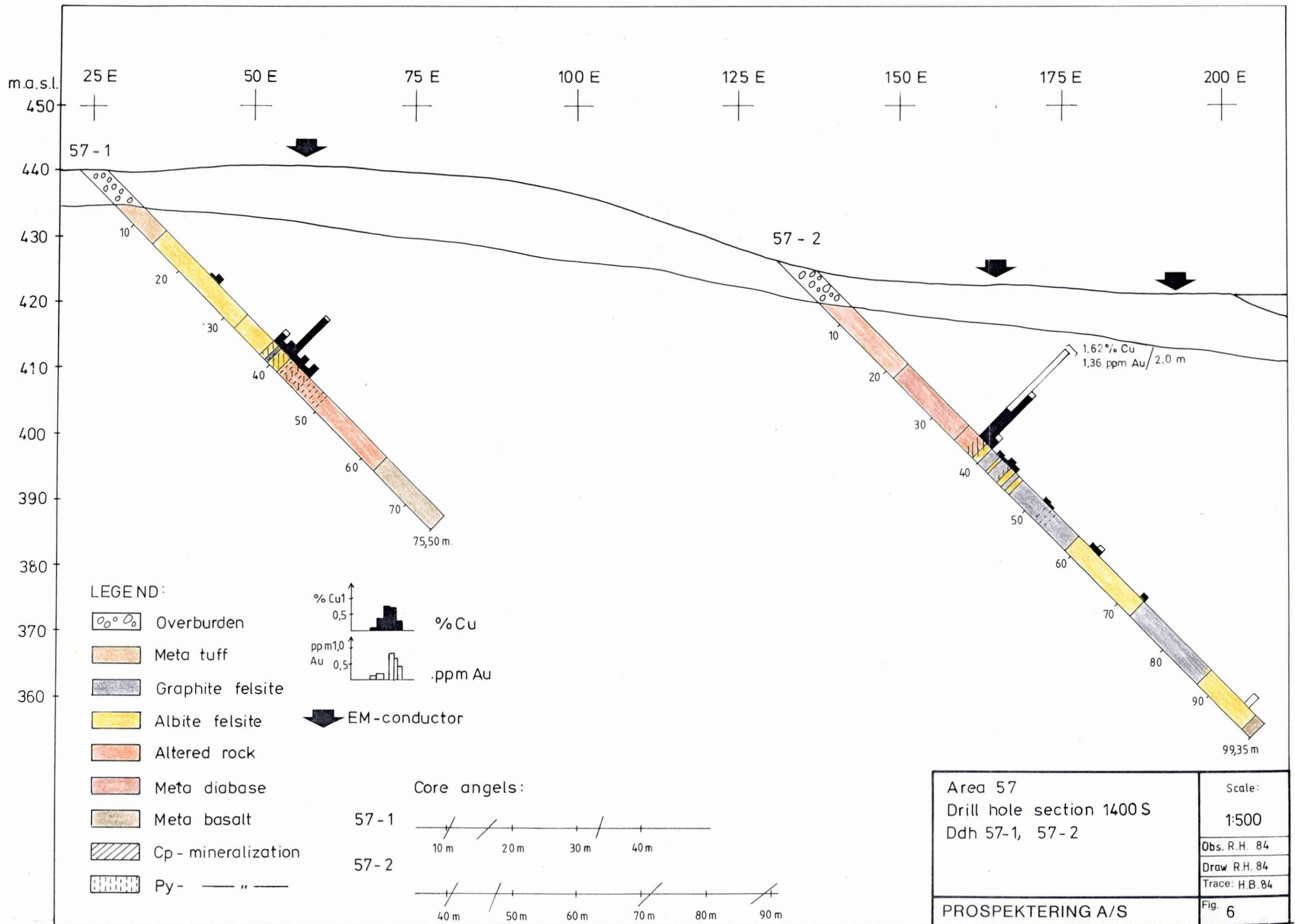


FIG. 7.

