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Tittel Diamond drilling on the Mørkvasshei molybdenite occurrence, Tørdal i Drangedal.				
Forfatter S. Svinndal		Dato 25.06 1963	Bedrift B. M. Heede A/S	
Kommune Drangedal	Fylke Telemark	Bergdistrikt Østlandske	1: 50 000 kartblad 16134	1: 250 000 kartblad
Fagområde Boring	Dokument type		Forekomster Mørkvasshei	
Råstofftype Malm/metall	Emneord Mo			
Sammendrag Rapporten omhandler geologisk og kjemisk bearbeidelse av borkjerner fra 12 dimantborhull boret på Mørkvasshei molybdenforekomst, Tørdal i Drangedal. Diamantboringene er utført av NGU under ledelse av Odd Gausdal og analysene er utført ved NGU, kjemisk avdeling. Rapporten inneholder geologiske berrapportskjemaer med påførte analyseresultater. Konklusjonen er nrgativ. Forekomsten har i dag ingen økonomisk interesse. Rapporten er også oversatt til engelsk.				

*Kopi
Werne Linnedal*

B.M. Heede A/S

Report NGU No. 389

Diamonddrilling on the
MØRKVASSHEI MOLYBDENITE OCCURRENCE

Tørdal in Drangedal, Norway

24th of Sept. - 17th of Nov. 1962.

Geological and chemical results

B.M. Heede A/S, Oslo

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Diamonddrilling was carried out from
the 24th of Sept. to the 17th of Nov. 1962.

In charge : Sverre Svinndal, geologist
Technical leader : Odd Gausdal, drillforeman

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INTRODUCTION.

The Mørkvasshei molybdenite occurrence is situated at Mørkvasshei NE of Grytevatn in Tørdal, Telemark. An area 500 by 300 metres has been extensively trenched and stripped. Several areas of bedrock exposed are well impregnated with molybdenite. In order to further examine the occurrence a programme of diamonddrilling was initiated. This work was carried out by Norges geologiske undersøkelse from 24th of Sept. to 17th of Nov. 1962. A total of 604.9 m was drilled in 12 holes each of about 50 metres. The results of these examinations follow below.

GEOLOGY.

The occurrence is found in a gneiss-granite complex in the rock division known as the Telemarkgranite. It is bounded, just south of Grytevatn, by a supracrustal complex known as the Nisser quadrangle. At Mørkvasshei the main rocktype is a reddish gneiss-granite, but this rock is heavily pegmatized. The pegmatite often comprises more than 50% of the rock material.

Between gneiss-granite and pegmatite, a transitional rocktype with a granitic texture is frequently observed. (In the core description this rocktype has been partly designated as granite.) There are occasional bands of gray gneiss as well as bands of dark mica rich gneiss.

The pegmatite is often rich in fluorite (CaF_2) and contains some titanite (Ca Ti Si O_5). The strike of the rock is generally E-W with dip about 20°S .

The molybdenite is found partly as thin streaks through the gneiss-granite, and partly as rich impregnations in a red coarse-grained granitic to gneiss-granitic rocktype. The molybdenite crystals usually occur as rather thick books. The impregnation type of mineralisation looks, from the trenches, to be the most promising one in the area. The primary objective of the diamonddrilling was to get a picture of these impregnation zones in the underlying rocks.

Molybdenite is also found in a few small pegmatite zones and in a few small quartzveins.

In association with molybdenite is often found some chalcopyrite and some titanite.

DIAMONDDRILLING.

A Longyear Prospector EX diamonddrill was used. The equipment was moved from Grytevatn to the drilling place by a helicopter from Helikopter Service A/S.

The diameter of the diamond drill core was 32 mm.

CORE LOGGING.

The geological description of the core from individual drillholes, and samples with the assay results can be found on the attached core log sheets. On the far right hand side of these sheets the position of molybdenite crystals has been noted. The above information has been plotted on drill-hole sections 2 and 3.

No loss of core has taken place, and there are no signs of any molybdenite having been ground away.

SAMPLING AND ASSAYING.

The samples have been taken from the areas where visible molybdenite occurs and individual samples are usually confined by geological boundaries. The core, where sampled, has been split and half left in the core box. The other half has been crushed and analysed.

The assaying has been carried out by the NGU's chemical division. The assays have been done spectrographically on an x-ray machine, and some of the samples were later chemically analysed. The results from the two methods coincided very closely.

The assay results are given in % Mo. The conversionfactor Mo - MoS₂ is 1.67.

CONCLUSION.

The drill holes did not, apart from a small area from 16.80 to 16.90 in hole nr. 8, encounter any mineralisation of the good impregnation type which is found in the trenches. Drill hole nr. 8 and drillhole nr. 12 in part are the only ones showing molybdenite of any interest. All the other holes gave negative results and the overall picture is far worse than could be expected from a surface examination. The molybdenite mineralisation is generally confined to the first 15 metres of the drillholes. This feature repeats itself in all the drillholes except hole nr. 12 (hole nr. 12 has mineral impregnation from 9.00 to 23.00 metres).

The conclusion must be that the good mineralisations known from the trenches are local in extent, and that molybdenite mineralisation decreases sharply with depth. The indications are that the molybdenite impregnation follows a stratigraphic horizon which again largely follows the topography as the hillside slopes south, approximately following the dip of the formation.

FUTURE EXAMINATIONS.

The first requirement, in carrying out further examinations, is a detailed topographic map. Such a map would make it possible to compare the stratigraphy of the rocks and the topography, thus obtaining a better picture of the thickness of the mineralized zone. The possibility of molybdenite impregnation in higher stratigraphic layers could also be examined more easily. The results from the 12 drillholes are, however, considered to be of such negative character that any further work can hardly be recommended.

Trondheim 25th June, 1963.

NORGES GEOLOGISKE UNDERSØKELSE
(Geological Survey of Norway)

Sverre Svinndal
geologist

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAG : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 1

Fall : 90°

X :

Retn. :

Y :

Lengde : 49.80 m

Z :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Pröve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		% Mo	% Mo			
	0.00						Spect.	Chem.		0.44	x
1	2.45	2.45		gn.-gr.	reddish $\angle 70^0$	1. M. 1	0.01			0.50	x
2	2.80	0.35		pegm.	rich in quartz					1.97	xx
3	3.25	0.45		gn.-gr.	reddish	2. M. 1	0.03	0.02		2.63	x
4	3.88	0.63		pegm.						2.80	x
5	7.40	3.52		gn.-gr.	reddish	3. M. 1	0.01	0.01		3.95	x
6	8.35	0.95		pegm.						5.08	x
7	8.65	0.30		gn.-gr.	much magnetite	4. M. 1	0.01				
8	10.00	1.35		pegm.	and gradations to pegm. with collection of the mafic minerals in small round bodies					18.16	x
9	17.10	7.10		pegm.		5. M. 1	0.01				
10	18.95	1.85		gn.-gr.	reddish	6. M. 1	0.01				
11	19.65	0.70		pegm.							
12	22.70	3.05		gn.-gr.	reddish, in some parts partly pegmatized						
13	23.60	0.90		pegm.							
14	23.95	0.35		gn.-gr.	reddish						
15	26.70	2.75		pegm.							
16	27.50	0.80		gn.-gr.	gray						
17	27.75	0.25		gr.	transition zone to pegm.						
18	35.77	8.02		pegm.	partly granite with graphic intergrowth						
19	35.83	0.06		gn. gr.	slightly greenish						
20	36.05	0.22		pegm.							

GEOLOGISK BORRAPPORTSKJEMA

BORHULL NR. 2

Fall : 90°

X :

Retn. :

Y :

Lengde : 49.30 m

Z :

OPPDRAG B. M. Heede A/S

STED : Mørkvasshei

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		%Mo	%Mo			
	0.00						Spect.	Chem.	4.28		x
1	0.30	0.30		gn. - gr.	∠ 65°	1. M. 2	0.01		4.37		xx
2	1.75	1.45		pegm.					11.28		xx
3	4.20	2.45		gn. - gr.	occasional small pegmatite zones	2. M. 2	0.01		11.55	11.72	xx
4	4.40	0.20		pegm.					13.10	13.22	xx
5	7.25	2.85		gn. - gr.	reddish				16.40		xx
6	7.50	0.25		pegm.		3. M. 2	0.01				
7	8.07	0.57		gn. - gr.	reddish						
8	10.20	2.13		pegm.		4. M. 2	0.01				
9	14.00	3.80		gn. - gr.	reddish	5. M. 2	0.02	0.02			
10	17.15	3.15		- " -	- " -	6. M. 2	0.01				
11	17.80	0.65		pegm.							
12	18.00	0.20		gr.	intermediate zone						
13	19.70	1.70		gn. - gr.							
14	20.07	0.37		pegm.							
15	20.77	0.70		gn. - gr.	reddish						
16	22.02	1.25		pegm.							
17	23.65	1.63		gn. - gr.	minor pegmatite						
18	30.95	7.30		pegm.							
19	34.90	3.95		gn. - gr.	increasing oxidation and strong epidotization						
20	38.85	3.95		Breccia	rich in white feldspar						
21	45.25	6.40		gn. - gr.	reddish, some pegmetization ∠ 63°						
22	48.35	3.10		pegm.							

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAK : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 3

Fall : 90°

X :

Retn. :

Y :

Lengde : 49.80 m

Z :

Pos. nr.	Dybde	Ant. m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater				
				Betegnelse	Karakteristikk			%Mo	%Mo		
	0.00							Spect.	Chem.		
1	2.70	2.70		gn.-gr.	reddish, occasional narrow pegm. bands	1.M.3		0.01		0.28	x
2	4.65	1.95		- " -	- " - - " - - " -	2.M.3		0.03	0.02	2.77	xx
3	9.48	4.83		- " -	- " - - " - - " - $\angle 66^\circ$	3.M.3		0.01		3.53	xx
4	13.25	3.78		pegm.						3.76	x
5	17.00	4.75		gn.-gr.	reddish, occasional narrow pegm. bands					3.87	xx
6	18.50	1.50		pegm.						3.98	xx
7	19.30	0.80		gn.-gr.	reddish					4.05 - 4.17	xx
8	22.60	3.30		pegm.						4.62	xx
9	23.40	0.80		gn.-gr.							
10	28.83	5.43		pegm.	and granite with graphic intergrowth, red, increasingly oxidized, breccia like from 28.28, as hole 2 nr. 19 and 20					8.98	xx
11	29.70	0.87		gn.	graisish, strongly oxidized and epidotized						
12	30.00	0.30		pegm.	breccia like						
13	30.70	0.70		gn.	as nr. 11						
14	32.00	1.30		pegm.							
15	33.00	1.00		gn.	as nr. 11						
16	33.57	0.57		pegm.	breccia like						
17	34.00	0.43		gn.-gr.	reddish, fresh						
18	35.65	1.65		pegm.							
19	38.25	2.60		gn.-gr.	reddish, partly pegmatized						
20	42.70	4.45		pegm.							

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAK : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 4

Fall : 90°

X :

Retn. :

Y :

Lengde : 47.00 m

Z :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater				
				Betegnelse	Karakteristikk			%Mo Spect.	%Mo Chem.		
	0.00										
1	0.65	0.65		pegm.		1. M. 4		0.03	0.03	0.68	xx
2	2.00	1.35		gn.-gr.	occasional pegmatitic bands	2. M. 4		0.03	0.03	1.06	xx
3	3.20	1.20		- " -	- " - " -	3. M. 4		0.02	0.02	1.31	xx
4	3.75	0.55		pegm.		4. M. 4		0.01		1.39	xx
5	4.70	0.95		gn.-gr.	reddish, some pegmatization	5. M. 4		0.01		1.45	xx
6	5.20	0.50		pegm.						2.90	xx
7	5.56	0.36		gn.-gr.	reddish	6. M. 4		0.01	0.01		
8	8.10	2.54		pegm.						4.10	xx
9	11.00	2.90		gn.-gr.	reddish, occasional pegmatitic bands	7. M. 4		0.01			
10	18.05	7.05		- " -	- " - " - " - " -	8. M. 4		0.01		9.93	xx
11	22.10	4.05		pegm.	occasional narrow gneis bands					10.10	x
12	23.08	0.98		gn.-gr.	reddish					10.95	x
13	24.10	1.02		pegm.							
14	28.25	4.15		gn.-gr.	some granite and pegmatite					32.84	xx
15	29.95	1.70		pegm.						35.33	x
16	31.00	1.05		gn.-gr.	reddish						
17	32.77	1.77		pegm.							
18	37.85	5.08		gn.-gr.	reddish, partly pegmatized	9. M. 4		0.01			
19	47.00	9.15		pegm.	occasional gneisslike zones						
	End	47.00									

GEOLOGISK BORRAPPORTSKJEMA

BORHULL NR. 5

Fall : 90°

X :

Retn. :

Y :

Lengde : 48.30 m

Z :

OPPDRAK :

STED :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		%Mo				
	0.00						Spect.				
	1.00	1.00		overburden					1.07		xx
1	3.88	2.88		gn. - gr.	reddish, partly oxidized	1. M. 5	0.01		2.45		x
2	5.70	1.82		pegm.	some oxidation, rotten	2. M. 5	0.01		2.67		xx
3	6.00	0.30		gn. - gr.	strong oxidation	3. M. 5	0.01		3.03		x
4	8.45	2.45		- " -	reddish, fresh				3.20-3.25		xx
5	9.97	1.52		pegm.							
6	10.40	0.43		gn. - gr.	reddish				6.49		xx
7	14.85	4.45		pegm.					6.57-6.60		xx
8	15.95	1.10		gr.	some pegmatization						
9	17.90	1.95		pegm.							
10	22.00	4.10		gn. - gr.	reddish, goes over to a finegrained gray gneiss, occasional pegmatite zones						
11	25.15	3.15		pegm.							
12	26.60	1.45		gn.	finegrained, gray						
13	31.25	4.65		pegm.							
14	31.72	0.47		gn.	finegrained, gray						
15	32.85	1.13		pegm.							
16	33.16	0.31		gn. - gr.	reddish						
17	34.18	1.02		pegm.							
18	36.07	1.89		gn.	and partly granite, some pegmatization						
19	38.44	2.37		pegm.							
20	39.60	1.16		gn. - gr.	reddish						

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAK : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 6

Fall : 90°

X :

Retn. :

Y :

Lengde : 50.00 m

Z :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		% Mo				
	0.00						Spect.				
1	0.35	0.35		gn. - gr.	reddish	1. M. 6			0.06		xx
2	2.32	1.97		pegm.			0.01		2.40		xx
3	5.95	3.63		gn. - gr.	reddish	2. M. 6			3.08		x
4	6.15	0.20		gr.			0.01		3.30		x
5	11.57	5.42		pegm.		3. M. 6	0.01		4.44		x
6	12.78	1.21		gn. - gr.	grayish	4. M. 6	0.01		4.85		xx
7	15.34	2.56		pegm.		5. M. 6	0.01		5.05		xx
8	17.00	1.66		gn. - gr.	grayish	6. M. 6	0.01		5.35		xx
9	21.68	4.68		pegm.					5.94		x
10	27.20	5.52		gn.	grayish, finegrained, occasional pegmetite bands				11.70-11.75		xx
11	31.35	4.15		pegm.					11.86		xx
12	31.76	0.41		gn.	grayish				12.33		x
13	32.18	0.42		pegm.							
14	35.32	3.14		gn. - gr.	slightly reddish				15.55		x
15	36.51	1.19		pegm.							
16	37.50	0.99		gn. - gr.	partly pegmatized				26.42		
17	41.55	4.05		pegm.							
18	44.45	2.90		gn. - gr.	slightly reddish, some pegmatization, 75°				37.10		x
19	50.00	5.55		pegm.							
	End	50.00									

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAG : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 7

Fall : 90°

X :

Retn. :

Y :

Lengde : 43.20 m

Z :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Pröve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		%Mo				
	0.00						Spect.				
1	5.25	5.25		pegm.					10.30		xx large
2	5.70	0.45		gn. - gr.	reddish				10.78		xx small
3	6.45	0.75		pegm.					12.12		xx - " -
4	6.95	0.50		gn. - gr.	reddish				12.87		xx - " -
5	7.65	0.70		pegm.							
6	8.07	0.42		gn. - gr.	reddish						
7	10.00	1.93		pegm.							
8	13.00	3.00		gn. - gr.	reddish, a few pegmatite bands	1. M. 7	0.03				
9	14.95	1.95		- " -	- " - " - " - 72°						
10	17.00	2.05		pegm.							
11	17.30	0.30		gr.							
12	17.62	0.32		gn. - gr.	reddish						
13	19.15	1.53		pegm.							
14	19.44	0.29		gn. - gr.	reddish						
15	23.45	4.01		pegm.							
16	25.55	2.10		gn. - gr.	reddish						
17	26.43	0.88		pegm.							
18	29.55	3.12		gn.	slightly reddish, finegrained, partly granitic, occasional pegmatite bands						
19	33.55	4.00		pegm.	with a few less altered gneisszones						
20	35.18	1.63		gn.	gray to slightly reddish						
21	39.50	4.32		pegm.							

Fall : 90°

x :

Retn. :

Y:

Lengde : 43.20 m

 $z:$

STED : Mørkvasshei

[illegible]

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAK : B.M. Heede A/S

STED : Mørkvasshei

Fall : 90°

X :

Retn. :

Y :

Lengde : 50.00 m

Z :

Pos. nr.	Dybde	Ant. m	Kjerne- tap	Bergartsbeskrivelse		Prøve nr.	Analyseresultater					
				Betegnelse	Karakteristikk			%Mo	%Mo			
	0.00							Spect.	Chem.			
1	6.16	6.16		pegm.						6.95		x
2	6.43	0.27		gr.						7.05	7.15	xx large
3	7.90	1.47		gn. -gr.	reddish, 7.05 to 7.25 pegmatitic band with large crystals of molybdenite	1. M. 8		0.06	0.08	7.68		x
4	9.30	1.40		pegm.	small areas of gr. and gn. -gr.	2. M. 8		0.01		9.46	-9.56	xx
5	9.60	0.30		pegm.	occasionally small areas of gn. -gr. with molybdenite especially at the contacts	3. M. 8		0.15	0.17	10.60		x
										10.77	10.81	xx large
										15.57		x
										16.02		x
6	11.00	1.40		gn. -gr.	reddish, partly somewhat pegmatized	4. M. 8		0.07	0.08	16.80	16.90	xx
7	13.40	2.40		- " -	as nr. 6	5. M. 8		0.01				
8	14.55	1.15		pegm.		6. M. 8		0.01		19.27		xx
9	16.20	1.65		gn. -gr.	reddish	7. M. 8		0.01				
10	17.00	0.80		pegm.	some gn. -gr., 16.80 -16.90 good ore type	8. M. 8		0.25	0.28			
11	19.10	2.10		pegm.		9. M. 8		0.01				
12	19.67	0.57		gn. -gr.	reddish	10. M. 8		0.01				
13	23.27	3.60		pegm.								
14	29.40	6.13		gn. -gr.	reddish, occasional pegmatite zones, some oxidation, much fracturing							
15	32.45	3.05		pegm.								
16	34.15	1.70		gn. -gr.	reddish, some fracturing, some oxidation							

GEOLOGISK BORRAPPORTSKJEMA

OPPDRAK : B.M. Heede A/S

STED : Mørkvasshei

BORHULL NR. 12

Fall : 90°

X :

Retn. :

Y :

Lengde : 60.00 m

Z :

Pos. nr.	Dybde	Ant.m	Kjerne- tap	Bergartsbeskrivelse		Pröve nr.	Analyseresultater				
				Betegnelse	Karakteristikk		%Mo Spect.	%Mo Chem.			
	0.00										
1	3.55	3.55		gn.-gr.	reddish to gray, rather finegrained, occasional pegmatite bands				9.57	xx	
2	9.50	5.95		pegm. and gr.					11.83		
3	9.80	0.30		gn.-gr.	reddish, somewhat pegmatitic	1. M. 12	0.01		15.16	-15.22	xx
4	12.50	2.70		pegm. and	gn.-gr. alternating	2. M. 12	0.02		15.62	-15.65	xx
5	14.55	2.05		gn.-gr.	reddish, some mica rich zones	3. M. 12	0.01				
6	16.00	1.45		pegm. and	gr. alternating, some parts have signs of gneiss like structures	4. M. 12	0.12	0.15	22.56	-22.59	xx
7	22.10	6.10		- " -	as nr. 6	5. M. 12	0.01		22.65	-22.78	xx
8	23.65	1.55		gn.-gr.	reddish	6. M. 12	0.06	0.08			
9	24.10	0.45		pegm.							
10	27.75	3.65		gn.-gr.	reddish, partly pegmatized						
11	40.10	12.35		pegm. and	gr. alternating						
12	42.85	2.75		gn.-gr.	reddish, partly pegmatized						
13	43.90	1.05		amf.	amfibolitic dark dyke rock type, irregular, at top cuts core at 90°, sharp contact, from 43.10 to 43.40 is in contact with pegm., and further to 43.90 it is strongly tectonized and rotten						
14	49.10	5.20		pegm. and	mica alternating						
15	56.50	7.40		gn.-gr. +	gr. + pegm. frequently alternating						

Fall : 90°

X :

Retn. :

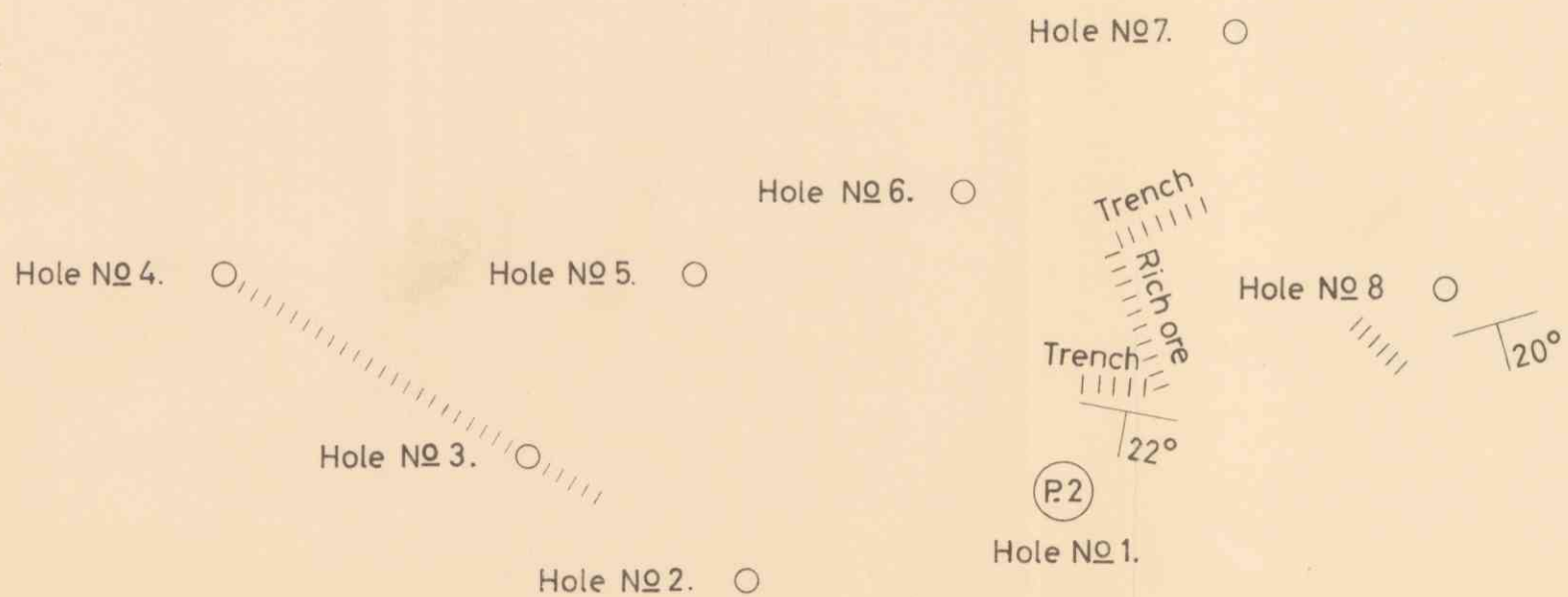
 $Y :$

Lengde : 60.00 m

 $z:$

STED : Mørkvasshei

[illegible]



DIAMOND DRILLING HOLES

SKETCH MAP

MØRKVASSHEI MOLYBDENUM DEPOSIT

NORGES GEOLOGISKE UNDERSØKELSE
TRONDHEIM

MÅLESTOKK:

1:1000

MÅLT

TEGN. Sv. Sv.

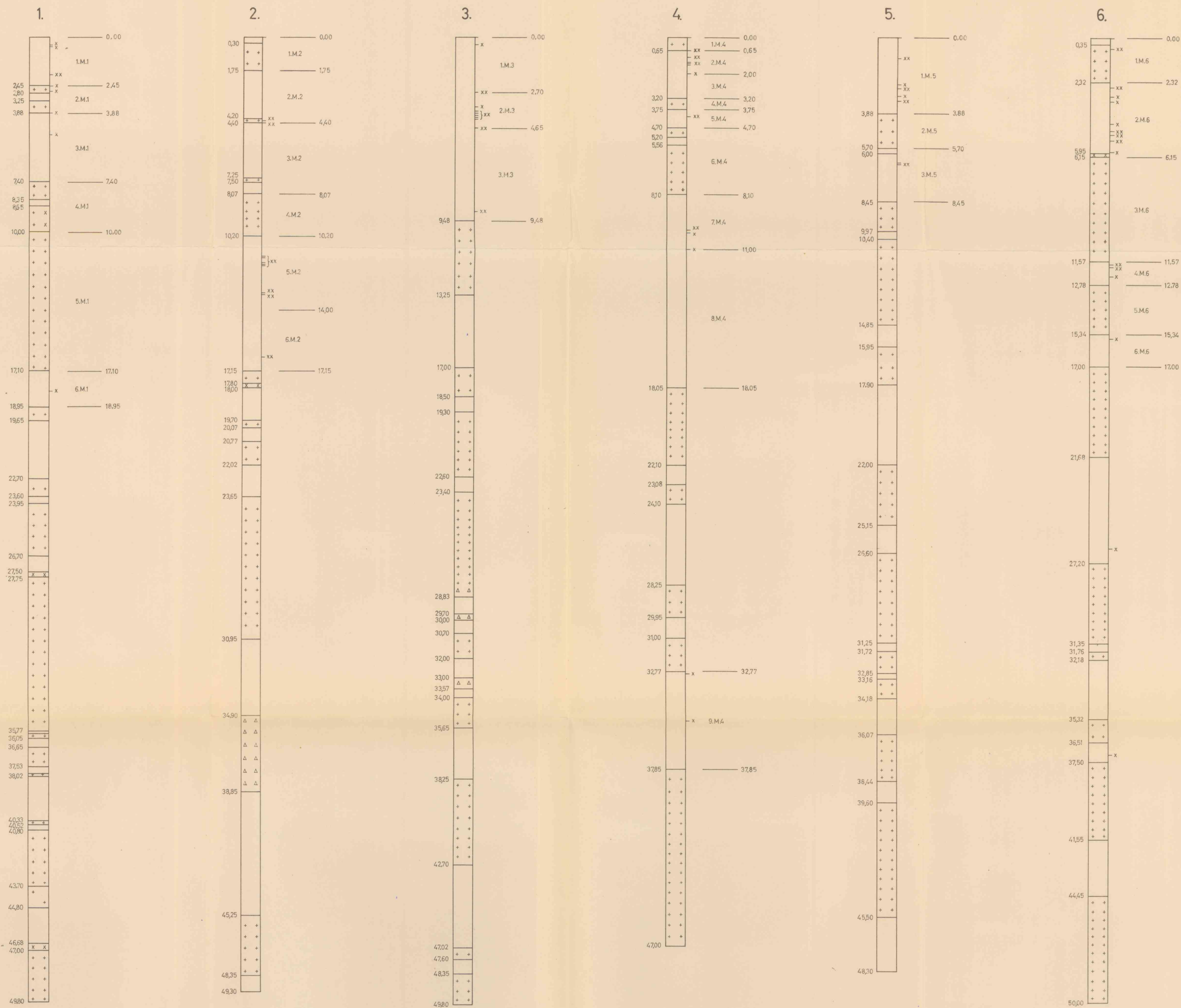
TRAC. TH.

KFR. Sv. Sv.

TEGNING NR.

389-01

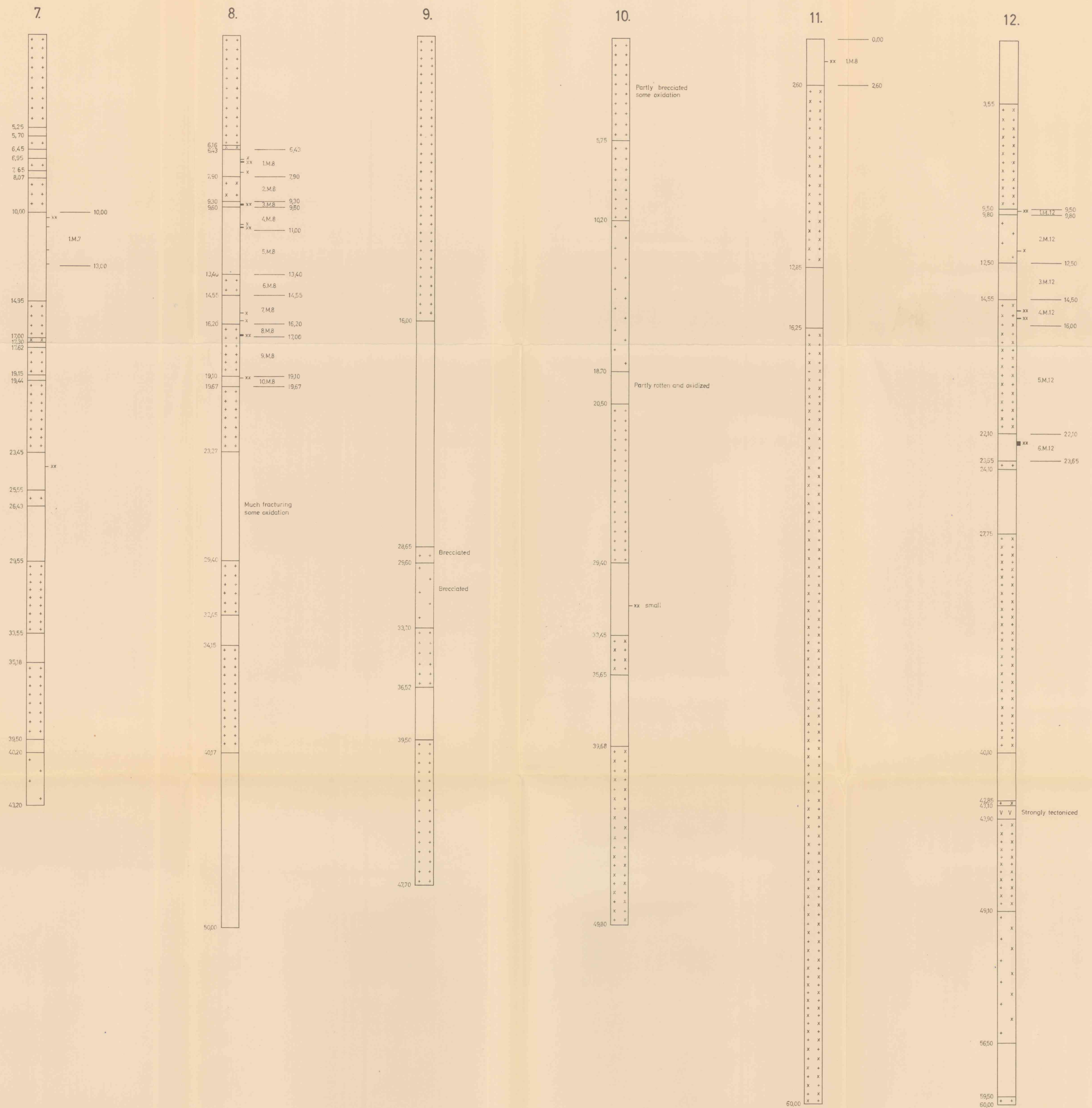
KARTBLAD (AMS)



Legend:

+ + +	Pegmatite	x + x	Mixed pegmatite/granit
Δ Δ Δ	Brecciated rocks		Gneis/granit
x x x	Granit	-x	Mylybdenite crystals

DIAMOND DRILLING HOLES	MÅLESTOKK: 1:100	MÅLT	TEGN. Sv. Sv.
MØRKVASSHEI MOLYBDENUM DEPOSIT		TRAC. H.	KFR. Sv. Sv.
NORGES GEOLOGISKE UNDERSØKELSE	TEGNING NR. 389-02	KARTBLAD (AMS)	
TRONDHEIM			



Legend:

	Pegmatite		Mixed pegmatite/granit
	Brecciated rocks		Gneis/granit
	Granit		Mylybdenite crystals

DIAMOND DRILLING HOLES	MÅLESTOKK: 1: 100	MÅLT TEGN. <i>Sv. Sv.</i> TRAC. <i>Sk.</i> KFR. <i>Sv. Sv.</i>
MØRKVASSHEI MOLYBDENUM DEPOSIT	TEGNING NR. 389-03	KARTBLAD (AMS)
NORGES GEOLOGISKE UNDERSØKELSE TRONDHEIM		