



UNIVERSITETETS
OLDSAKSAMLING

FREDERIKS GATE 3
0164 OSLO 1

Gårds/bruksnavn Tohellinga, u. T0	
G.nr./br.nr. 108/175,374,376,377	
Kommune ÅS	Fylke Akerrhus
Sogn	Prestegjeld:
Eier/bruker, adr.	
Gjelder: Utgravning av steinalderboplasser aug. 1994	
Flyfoto	Kartref. CO 041-5-3
Innber./rapport/reg. ved: Roger GRace	Dato 20.02.1995

Rapport, se bak

1941

1942

1943

1944

1945

1946

1947

1948

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1950

1951

1952

1953

TOHELLINGA under TO 108/175, 374, 376, 377, AS K. AKERSHUS

UTGRAVNING AV STEINALDERBOPLASSER

Rapport for forundersøkelsen og utgravningen ved Roger Grace

Sammendrag ved Lil Gustafson

De undersøkte boplassene ligger på en fjellknatt ca. 500 m sørøst for boplassen hvor det er funnet et stort antall karakteristiske bergartsekser som har gitt navn til "Nøstvetkulturen".

Foranledningen til undersøkelsen var et planlagt kjøpesenter, og tiltakshaver var As kommune/Steen og Strøm Invest A/S.

På grunnlag av registreringer hvor det var funnet flintbiter i prøvestikk, foretok Roger Grace en forundersøkelse 11.-15. juli 1994, før å få materiale til en vurdering av nødvendig arbeidsomfang for hovedundersøkelsen.

Selve utgravningen ble foretatt 22. august - 15. sept. 1994. Leder var Roger Grace, ellers deltok Madeleine Adner (3 1/2 uke), Lillian Trinterud (3 uker) og Reidar Solsvik (2 uker).

Forundersøkelsen viste at det dreier seg om to lokaliteter, (lok. 1 og lok. 2) som begge ligger på flater i sørhelling, ca. 63 m o.h. Havet har sannsynligvis stått ca. 62 m høyere enn idag, og fjellknatten var en øy dengang fangstfolkene holdt til her.

Lok. 1

Det ble gravet ut tilsammen 40 m² (A 24 m² og B 16 m²) med totalt 1254 funn, hovedsaklig av flint, noen få biter av bergkrystall og kvarts.

Funnene er svært fragmenterte, det meste er avfall etter redskapsproduksjon. Det er få redskaper: 2 skrapere og 1 fragmentert skraper, ellers biter med retuaj (bearbeiding) foruten mikroflekkekjerner og 69 mikroflekker som er karakteristisk for "Nøstvet-kulturen". Det var ingen spor etter "Nøstvetøkser". Noen av flintbitene var brent, men det ble ikke funnet rester av ildsted.

Lok. 2

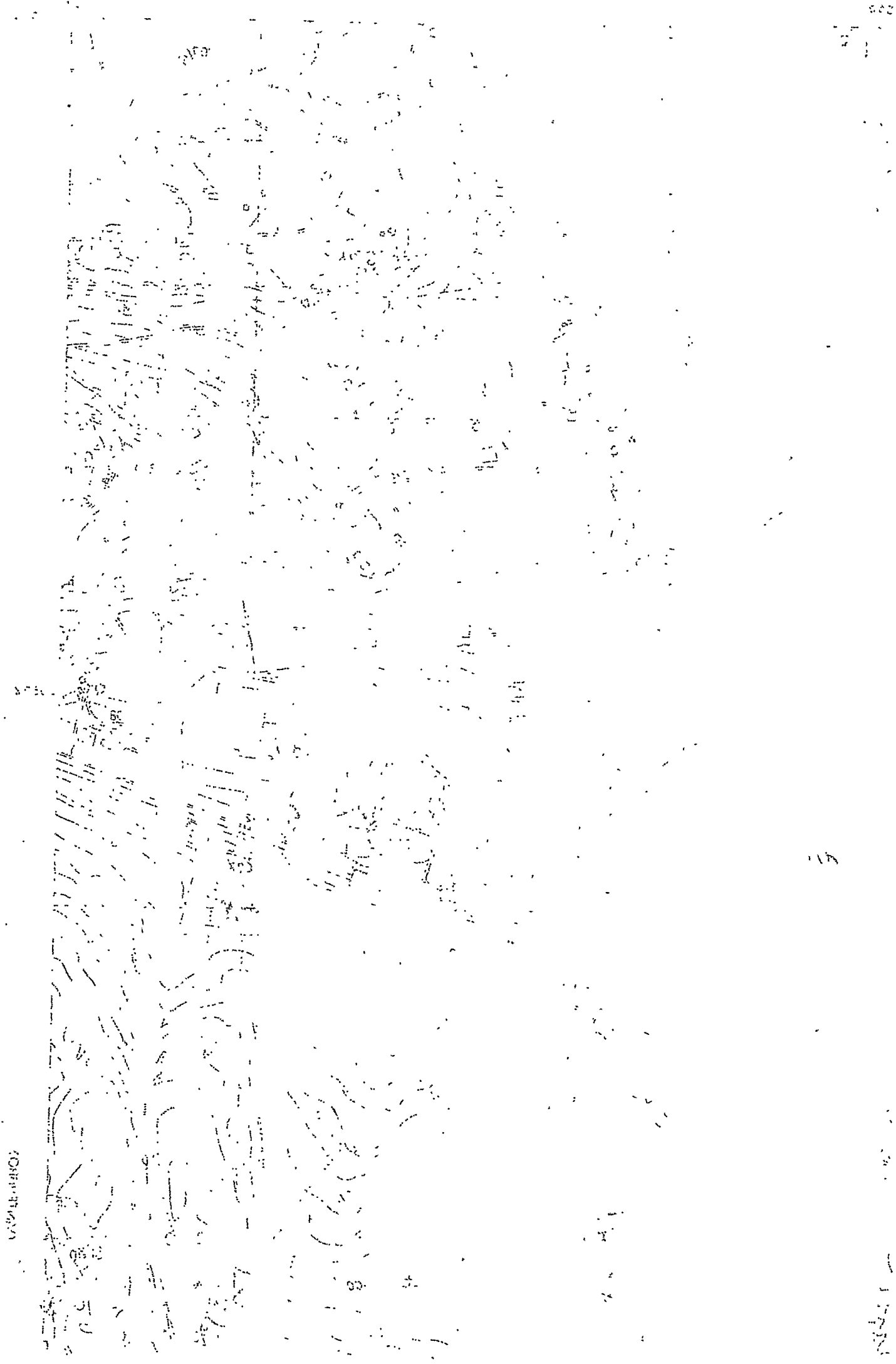
Det ble gravet ut 8 m² med tilsammen 47 funn, alt av flint. Det var få redskaper; 2 skrapere, dessuten noen mikroflekker.

Funnene fra de to utgravde lokaliteter tyder på at de er spor etter små grupper på kort besøk. Slitesporsanalysen viser at få av gjenstandene som er etterlatt på boplassene er redskaper. Disse har vært brukt til å skrape bein, muligens også gevir, og å skjære i tre. Bein kan være brukt som skaft til flinteggspyd med mikroflekker innsatt som egg, eller til fiskekroker. Trolig har fangstfolkene benyttet flintknoller som er funnet på stranda, og produsert redskap på stedet. Det er mest avfall som ligger igjen, de gode redskapene har folkene tatt med seg. De topografiske forhold tilsier at fiske

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og annen sjømatfangst var bakgrunnen for oppholdet. Både funnene og havnivået viser at det dreier seg om fangstfolk fra "tidlig Nøstvet-tid" omkring 6000 f.Kr.

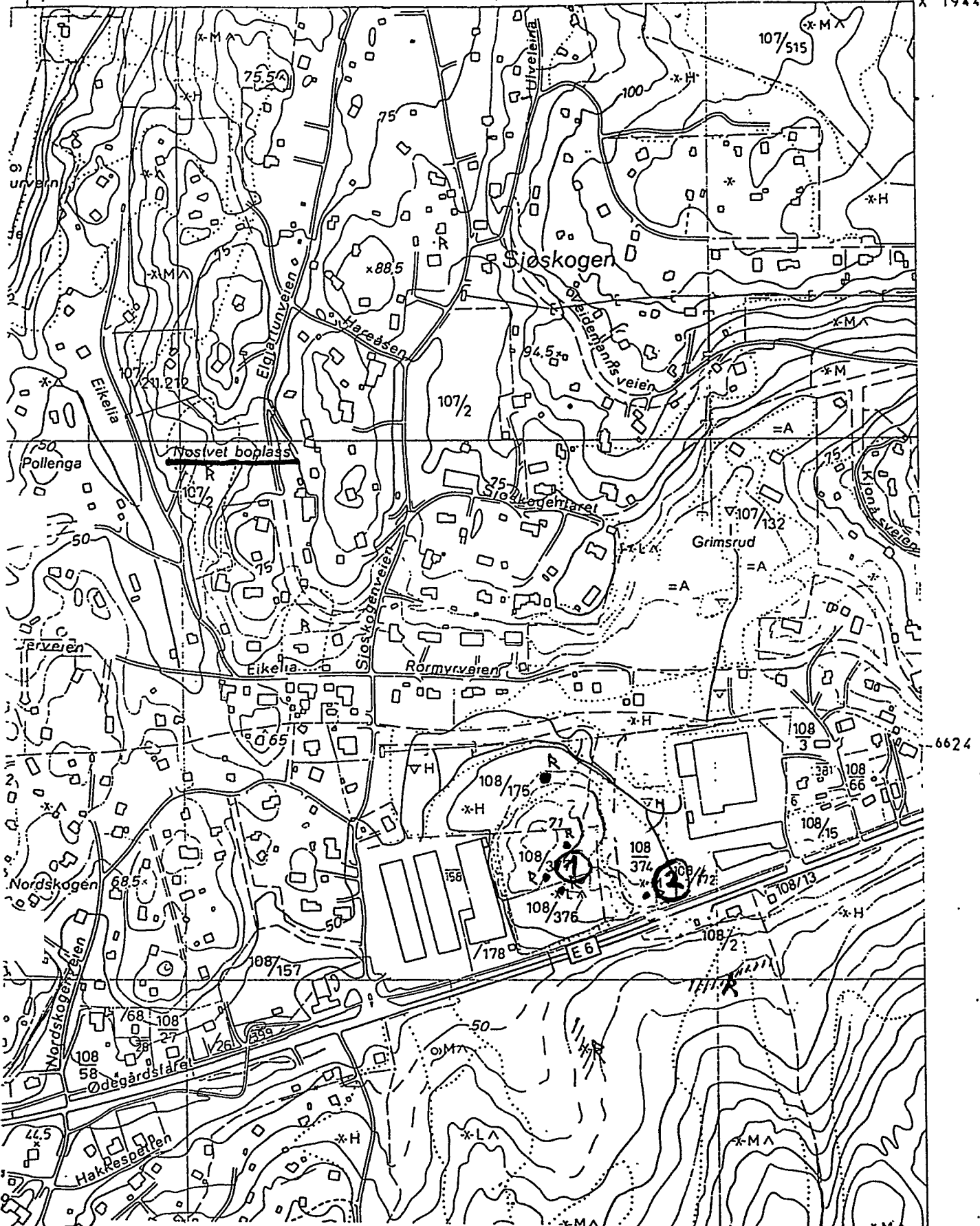
20. 2. 95 Vil Geertzen



117

10/11/1950

10/11/1950



VINTERBRO KJØPESENTER
 ØK-KART NESSET
 CO 041-5-3
 Data: Grimsrud 1993
 : UO. Hurumarkivet
 R : Steinalder lokalitet
 THH.: Desember 1993

INSTITUTT FOR ARKEOLOG
 KULTURHISTORIE / FURNING
 FREDRIKS GÅRD, 0164 OLLO

23 MARS 1994

(VINTERBRO)

Handwritten notes in a cursive script, possibly a historical document or a personal letter. The text is dense and spans several lines, though the characters are difficult to decipher due to the style and fading.

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TOHELLINGA LOCATIONS 1 AND 2

Introduction:

Tohellinga locations 1 & 2 were discovered during a survey carried out in November 1993 by Ole Grimsrud. The area is situated in Akerhus Fylke, Ås kommune. Only 1 piece of flint was recorded for Location 1 and 2 pieces for Location 2. (These pieces have been catalogued under løsfunn for those locations). An evaluation of the area was carried out in August 1994 by the author (see preliminary report). 35 pieces of flint were found from test pits at Location 1, and 4 pieces at Location 2. As the same grid was retained for the excavation these pieces have been catalogued according to metre square and quadrant, but not to mechanical layer.

Because of the immanent destruction of the area for the construction of the Vintebro shopping centre, the 2 locations were excavated beginning on August 22nd and terminating on September 15th. 40 metres were excavated at Location 1 and 8 metres at Location 2 (see Map 1).

LOCATION 1

Description of area:

Location 1 is situated among dense woods at the top of a steep South facing slope. The area also slopes away to the North, hence the name. The slope to the South was cut off by the construction of the old E6 highway. Location 1 is situated at about 63 m.o.h. with higher outcrops of rock both to the East and West (see Map 2).

Excavation procedure:

Area A

A grid orientated north-south was set out around the test pit that had produced most material. This area was designated area A and covered 24 square metres (see Map 2). After removal of the turf the area was excavated by 10cm mechanical layers. Because of the lack of material to the west of the excavated area layer 2 was limited to the 18 square metres to the east, (see finds distribution Area A Lag 1- For all finds distribution plans each find is denoted by a point which are randomly distributed within the quad).

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial data and for providing a clear audit trail. The records should be kept up-to-date and should be accessible to all relevant parties.

2. The second part of the document outlines the procedures for handling incoming payments. It is important to ensure that all payments are recorded promptly and accurately. This includes verifying the amount and the source of the payment, and ensuring that the appropriate accounts are credited.

3. The third part of the document describes the process for issuing invoices. Invoices should be issued promptly and accurately, and should clearly state the amount due and the terms of payment. It is also important to keep a record of all invoices issued, and to follow up on any outstanding payments.

4. The fourth part of the document discusses the importance of regular reconciliations. Reconciliations should be performed on a regular basis, and should involve comparing the company's records with the bank statements. This helps to identify any discrepancies and to ensure that the financial data is accurate.

5. The fifth part of the document outlines the procedures for handling outgoing payments. It is important to ensure that all payments are made on time and to the correct recipient. This includes verifying the amount and the recipient of the payment, and ensuring that the appropriate accounts are debited.

6. The sixth part of the document describes the process for preparing financial statements. Financial statements should be prepared on a regular basis, and should provide a clear and concise summary of the company's financial performance. It is important to ensure that the financial statements are accurate and that they are prepared in accordance with the relevant accounting standards.

7. The seventh part of the document discusses the importance of maintaining accurate records of all assets and liabilities. This includes keeping a record of all fixed assets, such as property and equipment, and of all liabilities, such as loans and accounts payable. It is also important to ensure that the records are up-to-date and that they are accessible to all relevant parties.

8. The eighth part of the document outlines the procedures for handling tax matters. It is important to ensure that all tax obligations are met on time and to the correct authority. This includes keeping a record of all tax payments and of all tax returns filed, and ensuring that the tax records are accurate and up-to-date.

9. The ninth part of the document describes the process for handling payroll. Payroll should be processed on a regular basis, and should involve calculating the gross pay for each employee, deducting any taxes and other deductions, and paying the net pay to the employee. It is important to ensure that the payroll records are accurate and that they are accessible to all relevant parties.

10. The tenth part of the document discusses the importance of maintaining accurate records of all other financial transactions. This includes keeping a record of all bank fees, interest income, and other miscellaneous transactions. It is also important to ensure that the records are up-to-date and that they are accessible to all relevant parties.

11. The eleventh part of the document outlines the procedures for handling foreign currency transactions. It is important to ensure that all foreign currency transactions are recorded accurately and that they are converted into the local currency at the appropriate exchange rate. This includes keeping a record of all foreign currency payments and receipts, and ensuring that the records are up-to-date and accessible to all relevant parties.

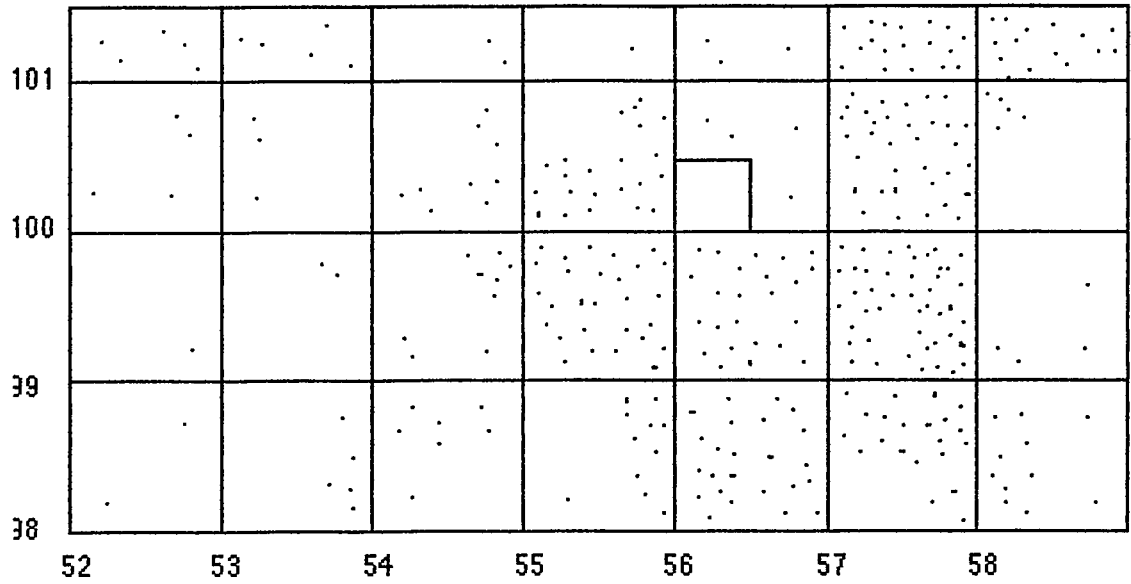
12. The twelfth part of the document describes the process for handling depreciation. Depreciation should be calculated on a regular basis, and should be recorded in the financial statements. It is important to ensure that the depreciation records are accurate and that they are accessible to all relevant parties.

13. The thirteenth part of the document discusses the importance of maintaining accurate records of all other financial transactions. This includes keeping a record of all other financial transactions, such as interest income and other miscellaneous transactions. It is also important to ensure that the records are up-to-date and that they are accessible to all relevant parties.

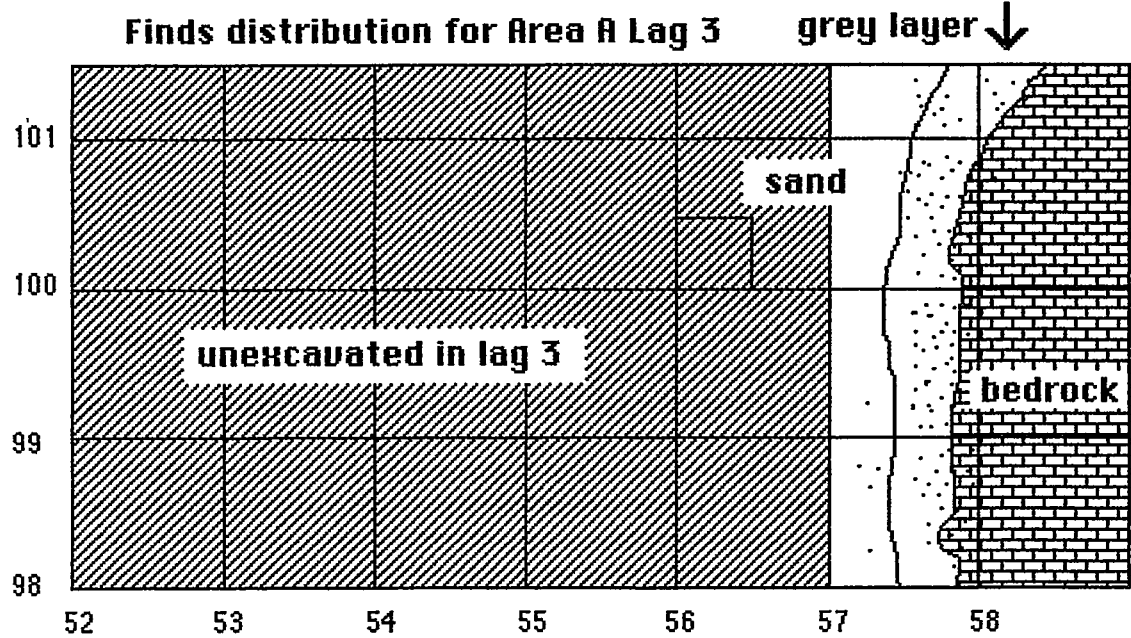
14. The fourteenth part of the document outlines the procedures for handling other financial matters. This includes keeping a record of all other financial matters, such as interest income and other miscellaneous transactions. It is also important to ensure that the records are up-to-date and that they are accessible to all relevant parties.

15. The fifteenth part of the document discusses the importance of maintaining accurate records of all other financial transactions. This includes keeping a record of all other financial transactions, such as interest income and other miscellaneous transactions. It is also important to ensure that the records are up-to-date and that they are accessible to all relevant parties.

Finds distribution for Area A Lag 1



Layer 3 was confined to the 16 square metres to the east as it had been established that nearly all of the finds were coming from the grey, leached out, layer and that the underlying sand was virtually sterile. The finds distribution of area A lag 3 illustrates this. Nearly all the finds are from the grey layer with very few from the sand.

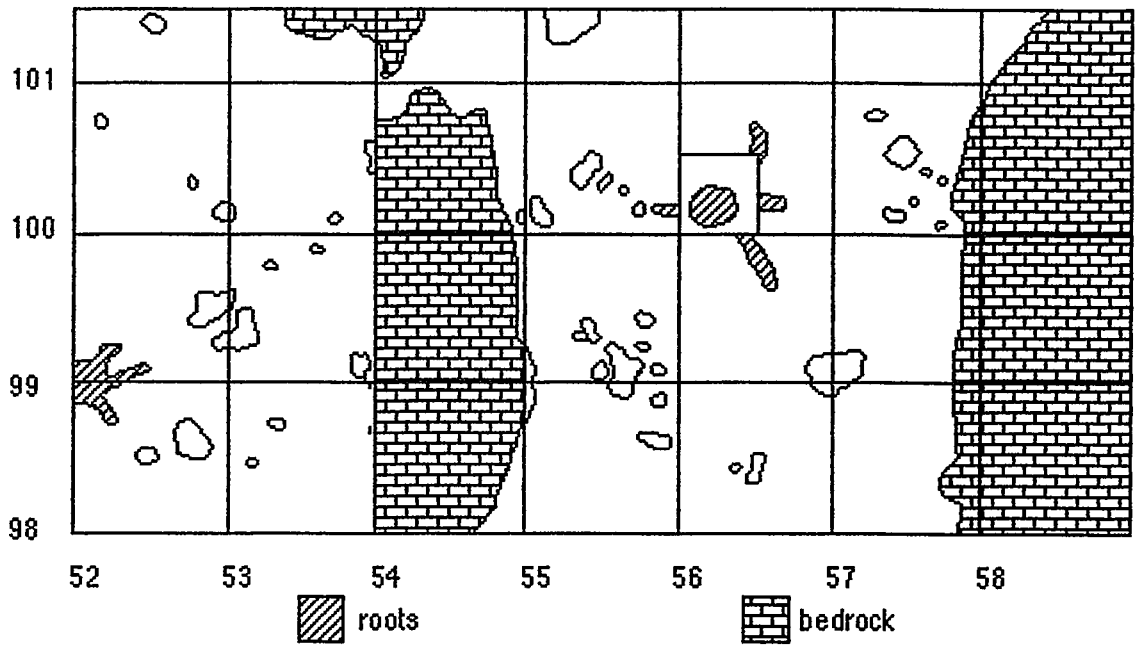


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Handwritten text, possibly a list or notes, located in the lower left quadrant of the page. The text is extremely faint and difficult to decipher, but appears to contain several lines of information.

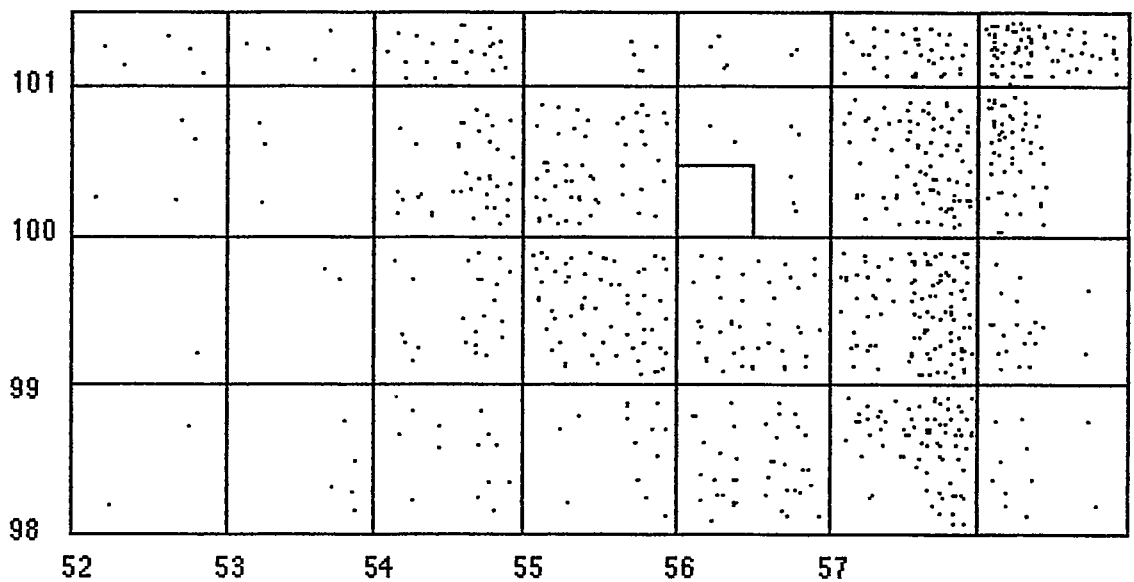
Also bedrock had been reached to the extreme east and in the centre of the excavated area.

Plan of bedrock and loose rocks area A lag 3



As can be seen from the finds distribution of all layers combined there are no concentrations of material, not attributable to natural topographic features.

Distribution of all finds area A



Therefore no archaeological features present were present.

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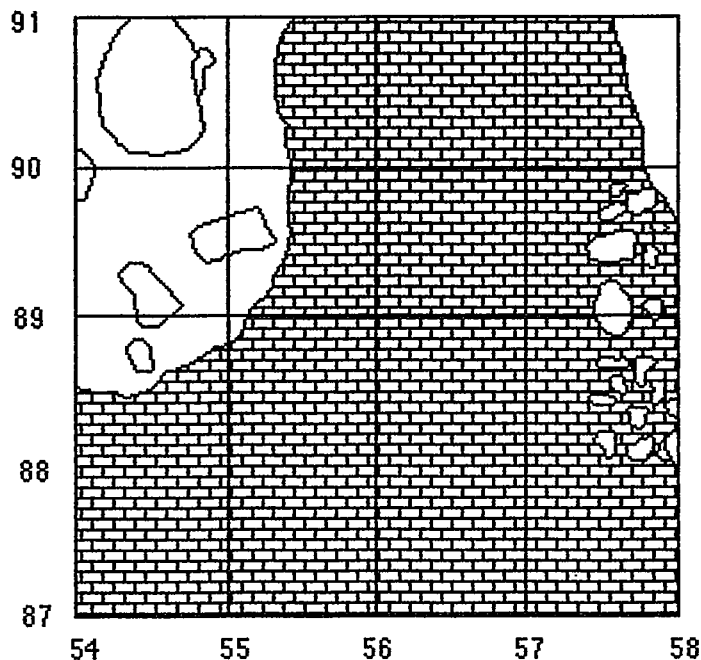
Though the excavation was carried out in 10cm. mechanical layers a record was kept of the depth of the various natural stratigraphic layers. These consisted of turf covering a grey layer of leached out organic material ('H' soil horizon), with underlying sand, down to bedrock. Where the excavation did not reach bedrock, auguring was used to ascertain the depth of the bedrock. Using this information the depositional history of the area can be simulated. Almost all of the finds came from the grey layer so that the topography of the site, at the time that the finds were deposited, can be reconstructed (see Figure 1:F).

Area B

A separate area was excavated, using the same grid, 7 metres to the south, this was designated Area B (see Map 2).

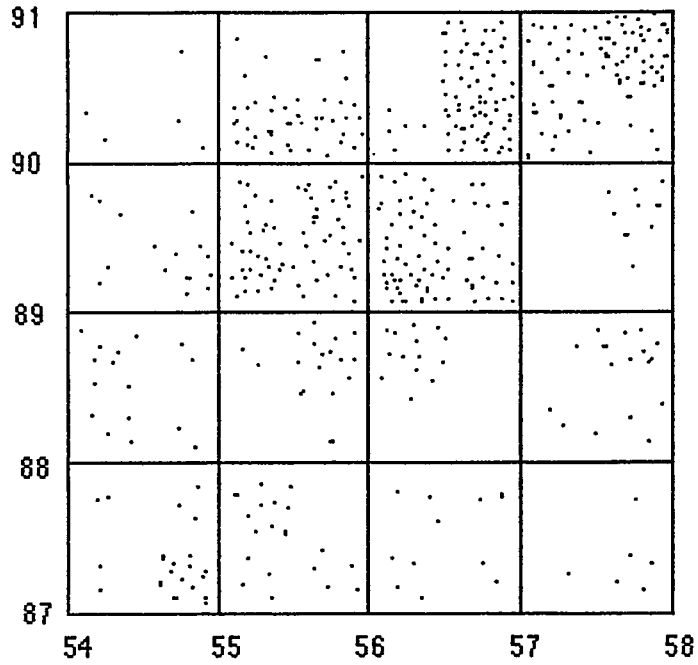
Bedrock was very close to the surface in this area so it was only necessary to excavate two 10cm, mechanical layers. This cleared the area down to bedrock except for an area of sand in the north-west corner of the area, and a small area of grey material in the north-east corner.

Plan of bedrock and loose rocks area B: lag 2



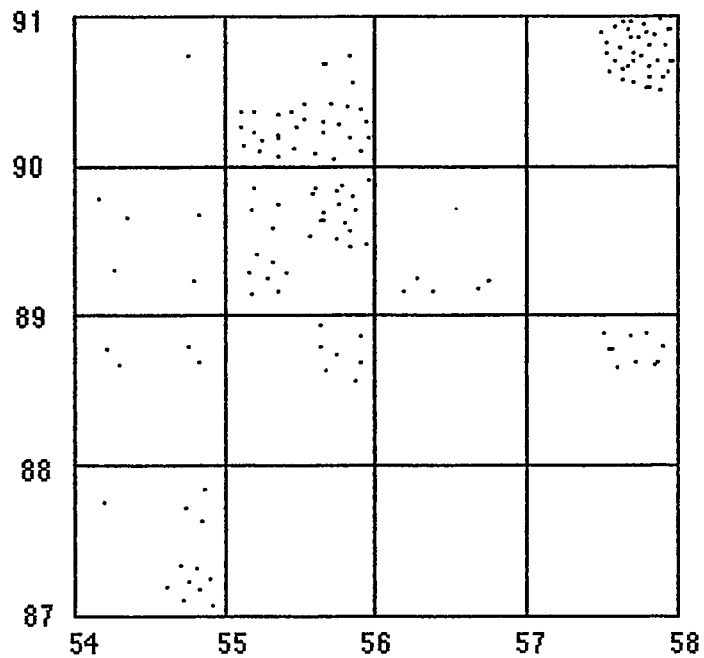
As in area A the sand was virtually sterile, and most of the finds came from the grey layer with some concentrations that were within hollows in the bedrock.

Finds distribution of all lag 1 & 2: area B



This was most notable from the finds distribution of lag 2, particularly the concentration in the north-east corner.

Finds distribution area B: lag 2



Again the depositional history of the area can be simulated, and the topography of the site, at the time that the finds were deposited, can be reconstructed (see Figure 2:F).

In addition to the test pits excavated during the evaluation a number of other were excavated, the number of finds discovered is given on Map 2.

Finds:

The finds from Location 1 were predominantly of flint:

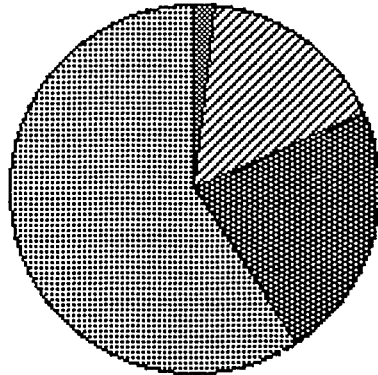
Flint	1081
Chert	166
Bergkrystall	1
Kvarts	2
Uberstempt	4
Total	1254





Of this total 180 of the pieces in excess of 10 mm. (i.e. not splinter) have been analysed in detail. (This sample will be used to make comparisons with other sites similarly analysed). Of this sample only 6 were patinated to any extent, and only 8 were burned. There were no fire cracked rocks. Also the only charcoal found was a few very small flecks, insufficient for carbon dating, and not securely associated with the finds. Therefore there is no evidence of a hearth or extensive use of fire.

The general condition of the material was good, showing little evidence of rolling or extensive frost action. However it was fragmented with many broken pieces. For example 59% of the sample consisted of fragments as opposed to the 30% at the Mesolithic site of Farsund R17 (see Grace 1992).

Tohellinga Lok. 1

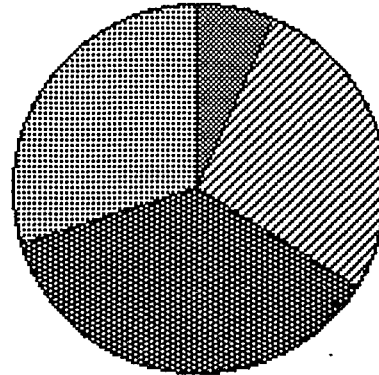
BLANKS







	blades	2 %
	bladelets	17 %
	flakes	22 %
	fragments	59 %

Farsund R17

BLANKS



	blades	7 %
	bladelets	27 %
	flakes	36 %
	fragments	30 %

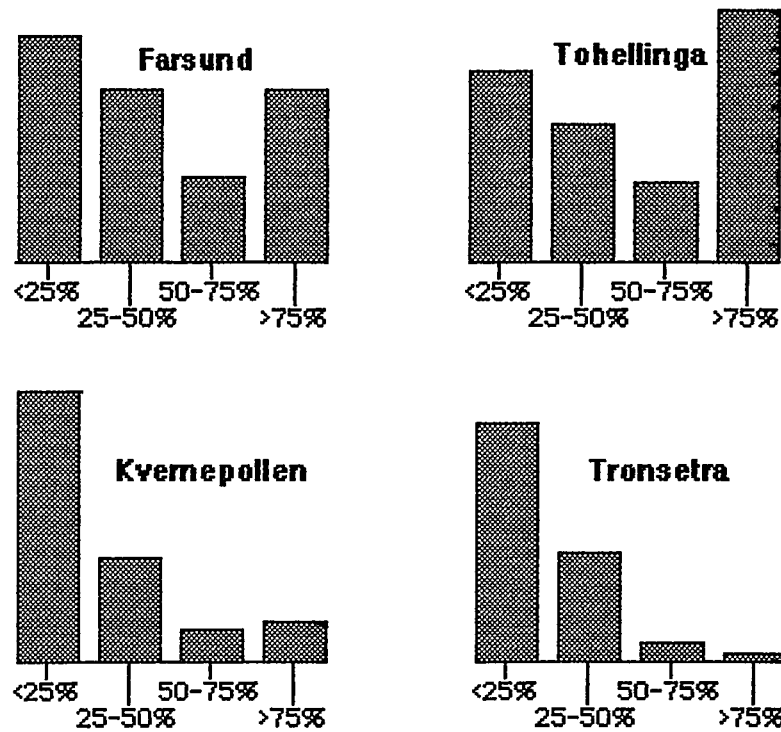
Also the unbroken pieces were on average smaller than those at Farsund:

		Tohellinga	Farsund
averages	length	17.36	23.9
	width	11.14	16.44
	thickness	3.8	5.7

This would indicate that the reduction strategy at Tohellinga was to continue knapping until the material was too small to reduce further.

The distribution of the percentage of cortex indicates that all stages of reduction were present at Tohellinga even though no cobbles of material (flintknoll) were found. The pattern of cortex distribution is similar to that at Farsund where cobbles of flint with a few flakes removed were discovered.

Pattern of percentage of cortex



In contrast the pattern is different to those from the sites of Kvernepollen (see Grace 1991) and Tronsetra, where the evidence suggests that material was brought into these sites and that all stages of the reduction sequence were not present.

There were very few retouched pieces found at Tohellinga, none of these tools are diagnostic of period or culture.

215 retouched fragment

343 retouched fragment

354 retouched flake

373 scraper fragment

375 scraper

377 retouched blade

379 scraper

However 5 core or core fragments were found, one of which was a handle core and one fragment came from a conical bladelet core.

- 308 flake core**
- 374 flake core fragment**
- 376 handle core**
- 378 conical bladelet core fragment**
- 380 flake core fragment**

These cores along with a significant number of small bladelets, would indicate an affinity with the Nøstvet phase, the handle core and conical blade core being very similar to those from Frebergsvik illustrated in Mikkelsen 1991; pp.101. This would date the site to a period between 4,500 to 6,000 B.C. (see Mikkelsen 1991; pp.86.) No diagnostic Nøstvet axes were found, but this not surprising as no source of suitable material was available.

Comparison of bladelet sizes

	Tohellinga			Farsund R17		
length	mean 15.46	sd	4.84	mean 22.24	sd	5.04
width	mean 5.38	sd	1.24	mean 7.1	sd	0.82
thickness	mean 1.78	sd	0.9	mean 2.7	sd	1.06

Site function:

The material appears to have been disturbed by natural agencies as there are no concentrations either of activity areas or knapping scatters. As most test pits away from the excavated areas were positive, albeit with only a few pieces, this would suggest that the material is spread over a wide area. The concentrations that are recognisable are related to natural topographic features such as hollows in the bedrock (as in the north-east corner of Location 1;area B) or where material has collected behind an outcrop of bedrock (as in the north-east corner of Location 1;area A). The lack of rolling of the material would indicate a low energy fluvial action such as meltwater moving the material down slope.

The extreme reduction of the material, and the evidence from the cortex distribution indicating that all stages of reduction were present,

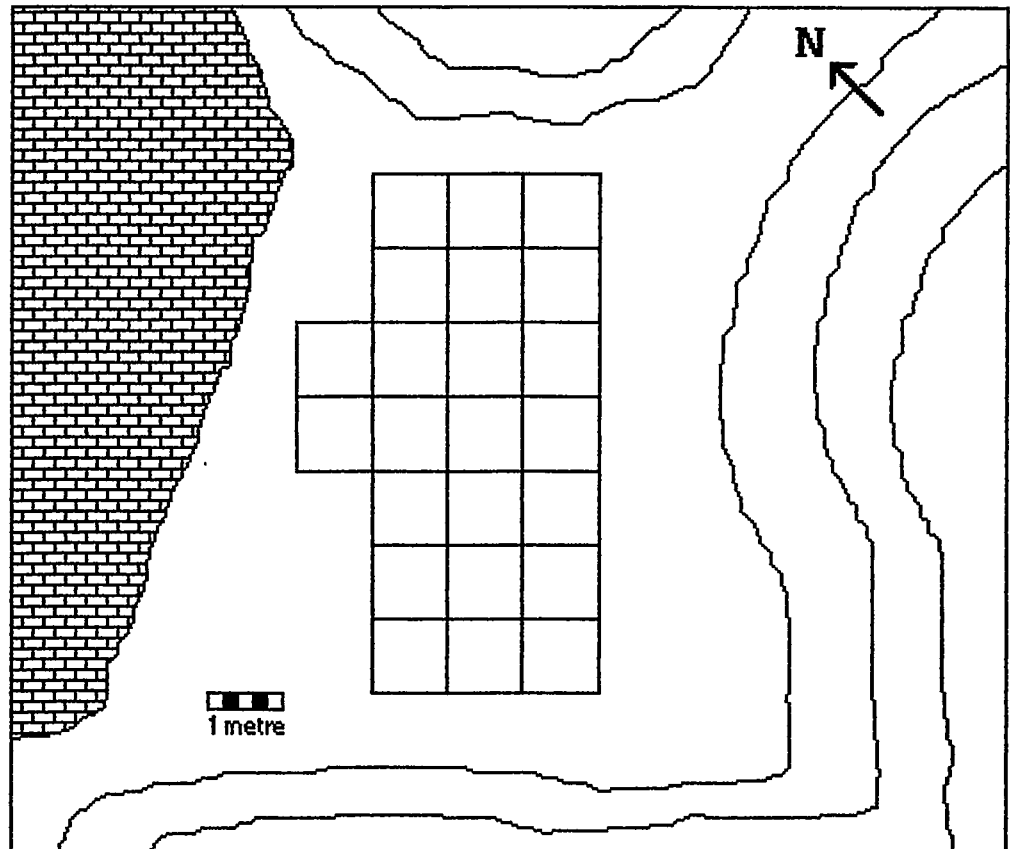


suggests that the main activity was knapping probably exploiting a local source of flint, particularly as 87% of the material is of flint rather than other raw materials. The lack of retouched material supports this interpretation as more 'tools' would be expected if the site was extensively occupied as a 'domestic' area.

LOCATION 2

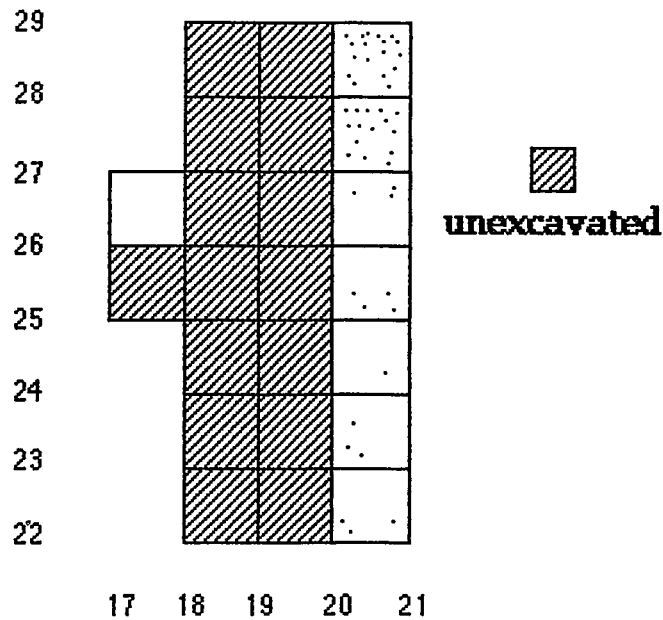
Location 2 was situated to the East of Location 1 (see Map 1), and consisted of a small area bounded to the west by a rock wall and fell away steeply to the north and east. To the south the area was curtailed by the construction of the E6 (see plan).

Plan of Location 2



The area was wooded and several trees had to be removed. A grid was set out as illustrated on the plan. A 7 metre strip was excavated along the line of the test pits where the material had been found during the evaluation. Only 49 pieces including the material from the test pits were recovered, 41 pieces of flint and 8 of chert. A square metre to the west was excavated but nothing was found (see plan of finds distribution)

Tohellinga Location 2 finds distribution



The material consisted of the following types:

avslag	9
irregular pieces	23
splinter	10
flekker	0
mikroflekker	7
TOTAL	49

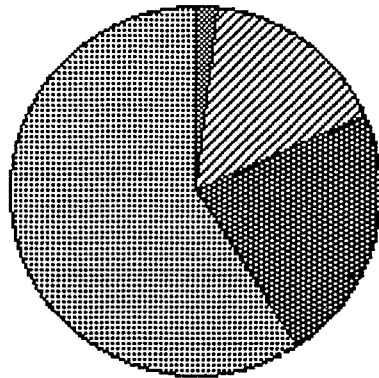
There were two retouched pieces:





121	side scraper
137	end/side scraper

This amount of material is insufficient with which to make comparisons with other sites. However the percentages of blank types is almost exactly the same as Location 1.

Tohellinga Location 1

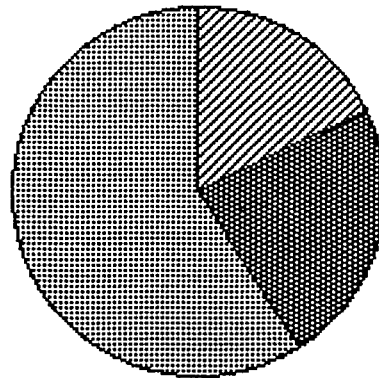
BLANKS







	blades	2 %
	bladelets	17 %
	flakes	22 %
	fragments	59 %

Tohellinga Location 2

BLANKS



	blades	0 %
	bladelets	18 %
	flakes	23 %
	fragments	59 %

Cataloguing:

The material was catalogued in two ways. First a general catalogue (see Figure 3:A), with information of avslag, avfall, splinter, flekker etc, and the specific catalogue for each individual piece including retouched pieces. The technical information is contained in one data base (see Figure 3:B) and the results of the analysis in another (see Figure 3:C). All these catalogues are written in Hyperscript using the Hypercard application on Apple Macintosh computers. All the catalogues are inter-related so that each can be accessed from each other using 'buttons'. The technological analysis of the individual pieces and the typological analysis of the retouched pieces and cores was carried out with the LITHAN expert system (see Grace, R. 1993).

References:

Mikkelsen, E. 1991. Seasonality and Mesolithic Adaption in Norway. pp. 79-119. in *New Directions in Scandinavian Archaeology* eds. Kristiansen. K. & Paludan-Muller, C.

Grace. R. Report submitted to Oldsaksamlingen, Farsund project 1992.

Grace. R. Report submitted to Historisk Museum, Kolsnes project 1991.

Grace, R. 1993. The use of expert systems in lithic analysis. *Traces et fonction: les geste retrouvés' Eraul 50*, vol. 2; 389-400. Liege 1993.

Appendices :

Plans and finds distributions of Location 1: areas A and B.

Summary of Catalogues for Location 1 and 2.

Oslo nov. 1994

REPORT ON USE-WEAR ANALYSIS OF MATERIAL FROM TOHELLINGA

by
Roger Grace

Lokation 1:

All the material, except for the pieces less than 10mm (splinter) was examined for use-wear. Of these 923 pieces, 245 were examined microscopically. Only 7 had definite traces of use-wear. These consisted of the following pieces:

#	TYPE (English)	Type (Norsk)	MOTION MATERIAL
443	RETOUCHED FRAGMENT	FRAGMENT MED RETUSJ	SCRAPING BONE
454	RETOUCHED FLAKE	AVSLAG MED RETUSJ	SCRAPING BONE
473	CONVEX SIDE SCRAPER	SKRAPER MED KONVEKS RETUSJ	SCRAPING ?
475	END/ SIDE SCRAPER	SKRAPER MED ENDERETUSJ	SCRAPING BONE
476	BLADELET HANDLE CORE	MICRO-FLEKKE HÅNDTAKSKJERNE	SCRAPING ANTLER
477	UNRETOUCHED BLADE	FLEKKE	CUTTING WOOD
479	FLAKE END SCRAPER	SKRAPER MED ENDERETUSJ	SCRAPING BONE

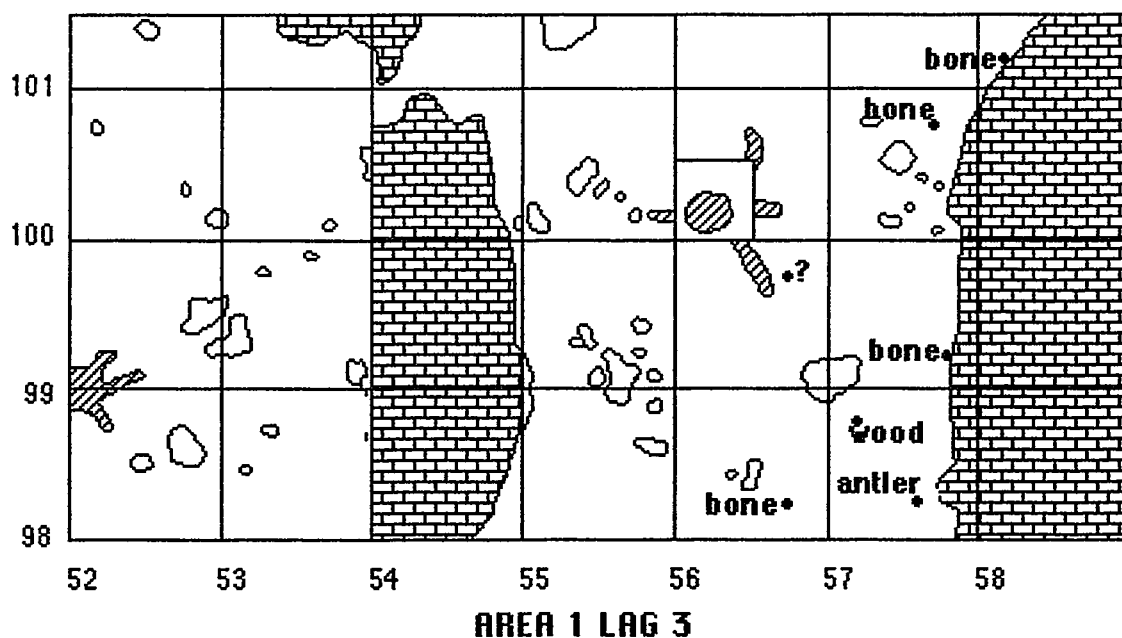
The spatial distribution of the used pieces is illustrated on the plan of lag 3.

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Spatial distribution of used pieces



All the used pieces came from the Eastern part of Area 1.

The small number of used pieces supports the interpretation of the site as a manufacturing rather than domestic site. More used pieces and a wider range of activities would be expected if the area had been extensively occupied as a domestic site.

A particular interesting result is that the handle core (micro-flekke håndtakskjerne) was used as a scraper. None of the remaining cores or fragments of cores was used.

Results of use-wear analysis: Lokation 1

#	COORD	LEVEL	TYPE	MOTION	HARDNESS	MATERIAL
300	116x55y sv	PS	FRAGMENT	UNUSED		
301	116x55y sv	PS	FRAGMENT	UNUSED		
302	116x55y sv	PS	AVSLAG	UNUSED		
303	116x55y sv	PS	FRAGMENT	UNUSED		
305	101x55y sv	PS	AVSLAG	UNUSED		
306	101x55y sv	PS	FRAGMENT	UNUSED		
307	101x55y sv	PS	FRAGMENT	UNUSED		
308	101x55y sv	PS	AVSLAG	UNUSED		
309	101x55y sv	PS	FRAGMENT	UNUSED		
310	101x55y sv	PS	FRAGMENT	UNUSED		
311	101x55y sv	PS	FRAGMENT	UNUSED		
312	101x55y sv	PS	FRAGMENT	UNUSED		
313	101x55y sv	PS	FRAGMENT	UNUSED		
314	94x55y sv	PS	FLEKKE	UNUSED		
315	94x55y sv	PS	FRAGMENT	UNUSED		
316	89x55y sv	PS	FRAGMENT	UNUSED		
317	89x55y sv	PS	FRAGMENT	UNUSED		
318	89x55y sv	PS	AVSLAG	UNUSED		
319	89x55y sv	PS	AVSLAG	UNUSED		
320	89x55y sv	PS	FRAGMENT	UNUSED		
321	89x55y sv	PS	FRAGMENT	UNUSED		
322	89x55y sv	PS	FRAGMENT	UNUSED		
323	89x55y sv	PS	MIKRO-FLEKKE	UNUSED		
324	89x55y sv	PS	AVSLAG	UNUSED		
325	89x55y sv	PS	FRAGMENT	UNUSED		
326	89x55y sv	PS	FRAGMENT	UNUSED		
327	89x55y sv	PS	FRAGMENT	UNUSED		
328	89x55y sv	PS	FRAGMENT	UNUSED		
329	89x55y sv	PS	AVSLAG	UNUSED		
330	85x55y sv	PS	FRAGMENT	UNUSED		
331	85x55y sv	PS	FRAGMENT	UNUSED		
332	82x64y sv	PS	AVSLAG	UNUSED		
333	82x64y sv	PS	MIKRO-FLEKKE	UNUSED		
334	77x65y nv	PS	AVSLAG	UNUSED		
335	77x65y nv	PS	FRAGMENT	UNUSED		
336	101x58y sØ	2	FRAGMENT	UNUSED		
337	101x58y sØ	2	FRAGMENT	UNUSED		
338	101x58y sØ	2	FRAGMENT	UNUSED		
339	101x58y sØ	2	FRAGMENT	UNUSED		
340	101x58y sØ	2	FRAGMENT	UNUSED		
341	101x58y sØ	2	FRAGMENT	UNUSED		
342	101x58y sØ	2	FRAGMENT	UNUSED		
343	101x58y sØ	2	FLEKKE	UNUSED		
344	101x58y sØ	2	AVSLAG	UNUSED		
345	101x58y sØ	2	MIKRO-FLEKKE	UNUSED		
346	101x58y sv	2	FRAGMENT	UNUSED		
347	101x58y sv	2	FRAGMENT	UNUSED		
348	101x58y sv	2	FRAGMENT	UNUSED		
349	101x58y sv	2	FRAGMENT	UNUSED		
350	101x58y sv	2	FRAGMENT	UNUSED		
351	101x58y sv	2	FRAGMENT	UNUSED		
352	101x58y sv	2	FRAGMENT	UNUSED		

353	101x58y sv	2	FRAGMENT	UNUSED
354	101x58y sv	2	FRAGMENT	UNUSED
355	101x58y sv	2	AVSLAG	UNUSED
356	101x58y sv	2	AVSLAG	UNUSED
357	101x58y sv	2	AVSLAG	UNUSED
358	101x58y sv	2	AVSLAG	UNUSED
359	101x58y sv	2	FRAGMENT	UNUSED
360	101x58y sv	2	FRAGMENT	UNUSED
361	101x58y sv	2	FLEKKE	UNUSED
362	101x58y sv	2	FRAGMENT	UNUSED
363	101x58y sv	2	FRAGMENT	UNUSED
364	101x58y sv	2	AVSLAG	UNUSED
365	101x58y sv	2	FRAGMENT	UNUSED
366	101x58y sv	2	FRAGMENT	UNUSED
367	101x58y sv	2	AVSLAG	UNUSED
368	101x58y sv	2	MIKRO-FLEKKE	UNUSED
369	101x58y sv	2	MIKRO-FLEKKE	UNUSED
370	101x58y sv	2	BROKEN MIKRO-FLEKKE	UNUSED
371	101x58y sv	2	BROKEN MIKRO-FLEKKE	UNUSED
372	101x58y sv	2	BROKEN MIKRO-FLEKKE	UNUSED
373	100x52y nø	1	FRAGMENT	UNUSED
374	100x52y nø	1	AVSLAG	UNUSED
375	100x52y sø	1	AVSLAG	UNUSED
376	100x52y sv	1	FRAGMENT	UNUSED
377	100x56y sø	2	FRAGMENT	UNUSED
378	100x56y sø	2	FRAGMENT	UNUSED
379	101x57y sø	3	FRAGMENT	UNUSED
380	101x57y sø	3	FRAGMENT	UNUSED
381	101x57y sø	3	FRAGMENT	UNUSED
382	101x57y sø	3	FRAGMENT	UNUSED
383	101x57y sø	3	MIKRO-FLEKKE	UNUSED
384	101x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED
385	101x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED
386	101x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED
387	99x54y sv	2	FRAGMENT	UNUSED
388	99x54y sø	2	FRAGMENT	UNUSED
389	99x54y nø	2	FRAGMENT	UNUSED
390	99x54y nø	2	AVSLAG	UNUSED
391	99x54y nø	2	FRAGMENT	UNUSED
392	99x54y nø	2	FRAGMENT	UNUSED
393	100x57y nø	3	FRAGMENT	UNUSED
394	100x57y nø	3	MIKRO-FLEKKE	UNUSED
395	100x57y nø	3	AVSLAG	UNUSED
396	100x57y nø	3	FRAGMENT	UNUSED
397	100x57y nø	3	AVSLAG	UNUSED
398	100x57y nø	3	AVSLAG	UNUSED
399	100x57y nø	3	AVSLAG	UNUSED
400	100x57y nø	3	FRAGMENT	UNUSED
401	100x57y nø	3	FRAGMENT	UNUSED
402	100x57y nø	3	FRAGMENT	UNUSED
403	100x57y nø	3	BROKEN MIKRO-FLEKKE	UNUSED
404	100x57y nø	3	FRAGMENT	UNUSED
405	100x57y nø	3	BROKEN FLEKKE	UNUSED
406	100x57y nø	3	BROKEN MIKRO-FLEKKE	UNUSED
407	100x57y nø	3	FRAGMENT	UNUSED
408	100x57y nø	3	BI-POLAR KJERNE	UNUSED
409	100x57y nø	3	FRAGMENT	UNUSED
410	100x57y sø	3	FRAGMENT	UNUSED

411	100x57y sø	3	MIKRO-FLEKKE	UNUSED		
412	100x57y sø	3	AVSLAG	UNUSED		
413	100x57y sø	3	FRAGMENT	UNUSED		
414	100x57y sø	3	AVSLAG	UNUSED		
415	100x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED		
416	100x57y sø	3	AVSLAG	UNUSED		
417	99x57y nø	3	FRAGMENT	UNUSED		
418	99x57y nø	3	FRAGMENT	UNUSED		
419	99x57y nø	3	AVSLAG	UNUSED		
420	99x57y nø	3	FRAGMENT	UNUSED		
421	99x57y nø	3	AVSLAG	UNUSED		
422	99x57y nø	3	FRAGMENT	UNUSED		
423	99x57y nø	3	FRAGMENT	UNUSED		
424	99x57y nø	3	AVSLAG	UNUSED		
425	99x57y nø	3	FRAGMENT	UNUSED		
426	99x57y nø	3	MIKRO-FLEKKE	UNUSED		
427	99x57y nø	3	AVSLAG	UNUSED		
428	99x57y sv	3	AVSLAG	UNUSED		
429	99x57y sø	3	FRAGMENT	UNUSED		
430	99x57y sø	3	FRAGMENT	UNUSED		
431	99x57y sø	3	FRAGMENT	UNUSED		
432	99x57y sø	3	FRAGMENT	UNUSED		
433	99x57y sø	3	FRAGMENT	UNUSED		
434	99x57y sø	3	FRAGMENT	UNUSED		
435	99x57y sø	3	FRAGMENT	UNUSED		
436	99x57y sø	3	AVSLAG	UNUSED		
437	99x57y sø	3	AVSLAG	UNUSED		
438	99x57y sø	3	AVSLAG	UNUSED		
439	99x57y sø	3	AVSLAG	UNUSED		
440	99x57y sø	3	MIKRO-FLEKKE	UNUSED		
441	99x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED		
442	99x57y sø	3	MIKRO-FLEKKE	UNUSED		
443	99x57y sø	3	FRAGMENT MED RETUSJ	SCRAPING	HARD	BONE
444	100x58y nv	3	FRAGMENT	UNUSED		
445	100x58y nv	3	AVSLAG	UNUSED		
446	101x58y sv	3	FRAGMENT	UNUSED		
447	101x58y sv	3	FRAGMENT	UNUSED		
448	101x58y sv	3	FRAGMENT	UNUSED		
449	101x58y sv	3	FRAGMENT	UNUSED		
450	101x58y sv	3	AVSLAG	UNUSED		
451	101x58y sv	3	AVSLAG	UNUSED		
452	101x58y sv	3	AVSLAG	UNUSED		
453	101x58y sv	3	MIKRO-FLEKKE	UNUSED		
454	101x58y sv	3	AVSLAG MED RETUSJ	SCRAPING	HARD	BONE
455	99x56y nø	1	FRAGMENT	UNUSED		
456	99x56y nø	1	FRAGMENT	UNUSED		
457	99x56y nø	1	FRAGMENT	UNUSED		
458	99x56y nø	1	FRAGMENT	UNUSED		
459	99x56y nø	1	AVSLAG	UNUSED		
460	99x56y nø	1	AVSLAG	UNUSED		
461	99x56y nv	1	FRAGMENT	UNUSED		
462	99x56y nv	1	FRAGMENT	UNUSED		
463	99x56y nv	1	MIKRO-FLEKKE	UNUSED		
464	99x56y nv	1	AVSLAG	UNUSED		
465	99x56y sv	1	FRAGMENT	UNUSED		
466	99x56y sv	1	AVSLAG	UNUSED		
467	99x56y sv	1	AVSLAG	UNUSED		
468	99x56y sø	1	FRAGMENT	UNUSED		

469	99x56y sø	1	FRAGMENT	UNUSED		
470	99x56y sø	1	FRAGMENT	UNUSED		
471	99x56y sø	1	AVSLAG	UNUSED		
472	99x56y sø	1	BROKEN MIKRO-FLEKKE	UNUSED		
473	99x56y nø	2	SKRAPER MED KONVEKS RETUSJ	SCRAPING	MEDIUM /HARD	ID
474	98x56y nø	2	BROKEN AVSLAG KJERNE	UNUSED		
475	100x57y nø	1	SKRAPER MED ENDERETUSJ	SCRAPING	HARD	BONE
476	98x56y sø	2	MICRO-FLEKKE HÅNDTAKSKJERNE	SCRAPING	MEDIUM /HARD	ANTLER
477	98x57y nv	2	FLEKKE	CUTTING	MEDIUM	WOOD
478	100x54y sø	1	KONISKE MICRO FLEKKEKJERNER	UNUSED		
479	98x56y sv	1	SKRAPER MED ENDERETUSJ	SCRAPING	HARD	BONE
480	90x55y sv	2	BROKEN KJERNE	UNUSED		
481	87x54y nv	1	AVSLAG	UNUSED		
482	88x54y sv	1	FRAGMENT	UNUSED		
483	90x56y nø	1	BROKEN MIKRO-FLEKKE	UNUSED		
484	98x55y sv	1	BROKEN MIKRO-FLEKKE	UNUSED		
485	99x57y nv	2	BROKEN FLEKKE	UNUSED		
486	100x57y sø	1	BROKEN MIKRO-FLEKKE	UNUSED		
487	100x54y sø	2	BROKEN MIKRO-FLEKKE	UNUSED		
488	99x55y sø	2	BROKEN MIKRO-FLEKKE	UNUSED		
489	99x55y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
490	99x55y nv	2	BROKEN MIKRO-FLEKKE	UNUSED		
491	100x57y sø	2	MIKRO-FLEKKE	UNUSED		
492	100x57y nø	2	MIKRO-FLEKKE	UNUSED		
493	100x55y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
494	99x56y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
495	99x56y sø	2	BROKEN MIKRO-FLEKKE	UNUSED		
496	90x57y nø	2	BROKEN MIKRO-FLEKKE	UNUSED		
497	90x57y nø	2	BROKEN MIKRO-FLEKKE	UNUSED		
498	98x53y sø	1	BROKEN MIKRO-FLEKKE	UNUSED		
499	100x58y nv	2	BROKEN MIKRO-FLEKKE	UNUSED		
500	88x54y sv	1	BROKEN MIKRO-FLEKKE	UNUSED		
501	90x56y sø	1	BROKEN MIKRO-FLEKKE	UNUSED		
502	87x54y nv	2	BROKEN MIKRO-FLEKKE	UNUSED		
503	89x55y nø	2	BROKEN MIKRO-FLEKKE	UNUSED		
504	90x55y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
505	98x56y nv	1	BROKEN MIKRO-FLEKKE	UNUSED		
506	98x56y nv	1	MIKRO-FLEKKE	UNUSED		
507	98x56y sø	1	MIKRO-FLEKKE	UNUSED		
508	98x56y sv	1	BROKEN FLEKKE	UNUSED		
509	89x56y sø	1	MIKRO-FLEKKE	UNUSED		
510	100x58y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
511	89x56y sv	1	BROKEN MIKRO-FLEKKE	UNUSED		
512	89x56y sv	1	BROKEN MIKRO-FLEKKE	UNUSED		
513	89x56y sv	1	BROKEN MIKRO-FLEKKE	UNUSED		
514	98x57y nø	3	BROKEN MIKRO-FLEKKE	UNUSED		
515	98x57y nø	3	MIKRO-FLEKKE	UNUSED		
516	98x57y nø	3	AVSLAG	UNUSED		
517	98x57y nø	3	BROKEN MIKRO-FLEKKE	UNUSED		
518	98x57y nø	2	BROKEN MIKRO-FLEKKE	UNUSED		
519	101x54y sv	2	BROKEN MIKRO-FLEKKE	UNUSED		
520	101x54y sv	2	MIKRO-FLEKKE	UNUSED		

521	101x54y sv	2	BROKEN MIKRO-FLEKKE	UNUSED
522	101x52y sv	1	BROKEN MIKRO-FLEKKE	UNUSED
523	88x54y nv	1	BROKEN MIKRO-FLEKKE	UNUSED
524	98x57y sø	3	BROKEN MIKRO-FLEKKE	UNUSED
525	99x57y sv	1	MIKRO-FLEKKE	UNUSED
526	101x53y sv	1	MIKRO-FLEKKE	UNUSED
527	101x58y sø	1	MIKRO-FLEKKE	UNUSED
528	99x57y sø	1	BROKEN MIKRO-FLEKKE	UNUSED
529	99x55y sø	1	MIKRO-FLEKKE	UNUSED
530	98x56y sø	2	BROKEN MIKRO-FLEKKE	UNUSED
531	98x54y nv	1	FRAGMENT	UNUSED
532	98x54y nø	1	AVSLAG	UNUSED
533	98x54y nø	1	AVSLAG	UNUSED
534	88x57y nø	2	AVSLAG	UNUSED
535	101x54y sø	2	BROKEN MIKRO-FLEKKE	UNUSED
536	98x57y nø	1	FRAGMENT	UNUSED
537	99x55y nø	1	FRAGMENT	UNUSED
538	98x55y nø	1	AVSLAG	UNUSED
539	99x57y sø	1	FRAGMENT	UNUSED
540	99x56y nv	2	AVSLAG	UNUSED
541	100x55y sv	2	AVSLAG	UNUSED
542	101x54y sv	2	KJERNE	UNUSED
543	98x56y sv	2	AVSLAG	UNUSED
544	100x57y nv	1	AVSLAG	UNUSED
545	89x55y nv	2	FRAGMENT	UNUSED

PS = prøvestyker

ID = insufficient data

Lokation 2:

All the material, except for the pieces less than 10mm (splinter) was examined for use-wear. These 39 pieces were examined microscopically, and only 2 had definite traces of use-wear. These consisted of the following pieces:

#	TYPE (English)	Type (Norsk)	MOTION	MATERIAL
121	STRAIGHT SIDE SCRAPER	SKRAPER MED RETT RETUSJ	WHITTLING	WOOD
137	END/SIDE SCRAPER	SKRAPER MED ENDERETUSJ	SCRAPING	WOOD

Number 121 could only be interpreted from the macro information as the course grain size of the flint made observation of the surface impossible. Therefore the interpretation of whittling wood is based on tool morphology and edge wear only.

Number 137, though retouched on both sides and on the distal end, was only used on the distal end.

Results of use-wear analysis: Lokation 2`

#	COORD	LEVEL	TYPE	MOTION	HARDNESS
MATERIAL					
100	22x20y sv	PS	AVSLAG	UNUSED	
101	22x20y sv	PS	AVSLAG	UNUSED	
102	28x20y sv	PS	AVSLAG	UNUSED	
103	28x20y sv	PS	FRAGMENT	UNUSED	
104	26x20y nv	1	FRAGMENT	UNUSED	
105	28x20y sø	1	AVSLAG	UNUSED	
106	28x20y sø	1	AVSLAG	UNUSED	
107	28x20y nø	1	FRAGMENT	UNUSED	
108	28x20y nø	1	FRAGMENT	UNUSED	
109	28x20y nø	1	FRAGMENT	UNUSED	
110	28x20y nø	1	FRAGMENT	UNUSED	
111	28x20y nv	1	BROKEN FLEKKE LET	UNUSED	
112	28x20y nv	1	FRAGMENT	UNUSED	
113	28x20y nv	1	FRAGMENT	UNUSED	
114	28x20y nv	1	FRAGMENT	UNUSED	
115	28x20y nv	1	BROKEN MIKRO-FLEKKE	UNUSED	
116	28x20y nv	1	MIKRO-FLEKKE	UNUSED	
117	23x20y sv	1	AVSLAG	UNUSED	
118	23x20y sv	1	BROKEN MIKRO-FLEKKE	UNUSED	
119	23x20y nv	1	FRAGMENT	UNUSED	
120	24x20y sø	1	AVSLAG	UNUSED	
121	24x20y sø	1	SKRAPER MED RETT RETUSJ	WHITTLING	MEDIUM WOOD
122	25x20y sø	1	FRAGMENT	UNUSED	
123	25x20y sv	1	FRAGMENT	UNUSED	
124	27x20y sv	1	FRAGMENT	UNUSED	
125	27x20y sv	1	AVSLAG	UNUSED	
126	27x20y sv	1	BROKEN MIKRO-FLEKKE	UNUSED	
127	27x20y sø	1	FRAGMENT	UNUSED	
128	27x20y sø	1	BROKEN MIKRO-FLEKKE	UNUSED	
129	27x20y nø	1	FRAGMENT	UNUSED	
130	27x20y nø	1	AVSLAG	UNUSED	
131	27x20y nv	1	FRAGMENT	UNUSED	
132	27x20y nv	1	FRAGMENT	UNUSED	
133	27x20y nv	1	FRAGMENT	UNUSED	
134	27x20y nv	1	FRAGMENT	UNUSED	
135	27x20y nv	1	BROKEN MIKRO-FLEKKE	UNUSED	
136	27x20y nv	1	BROKEN MIKRO-FLEKKE	UNUSED	
137	27x20y nv	1	SKRAPER MED ENDERETUSJ	SCRAPING	MEDIUM WOOD

PS = prøvestyker

ID = insufficient data



MAP 1

108/175

108/158

47.7

Industri

108/178

3

LOCATION 1

108/376

108/377

108/378

Tett skog

LOCATION 2

100

80.870

1615

168.104

107/263.103

50

50

55

60

65

108/

stri

U

108/362

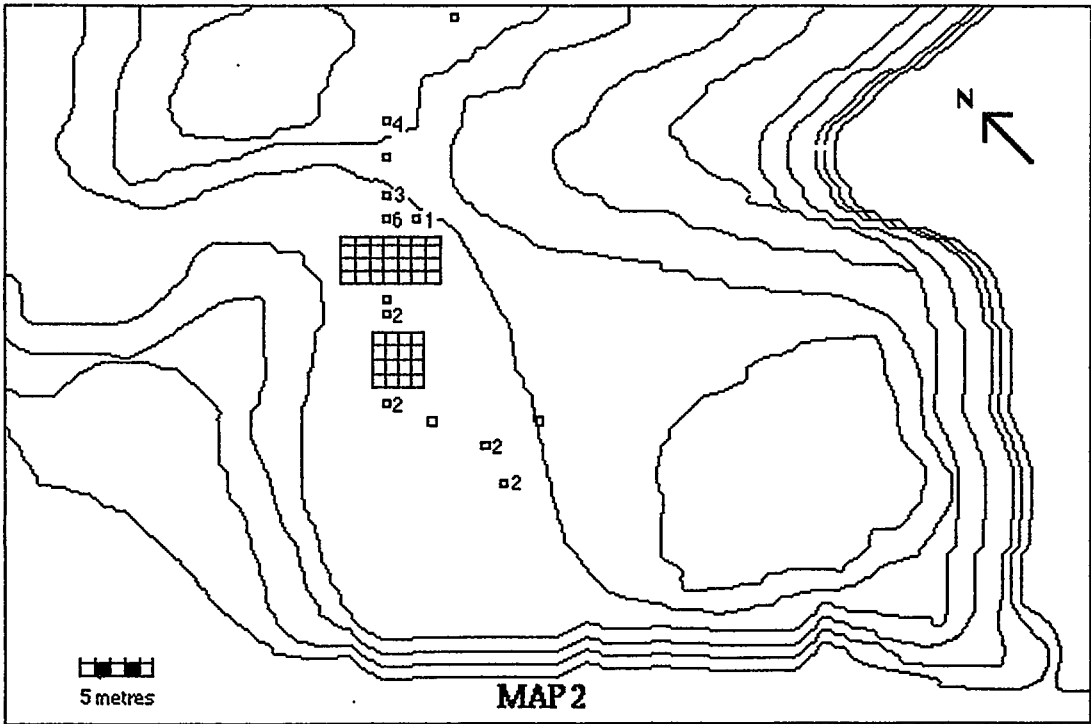




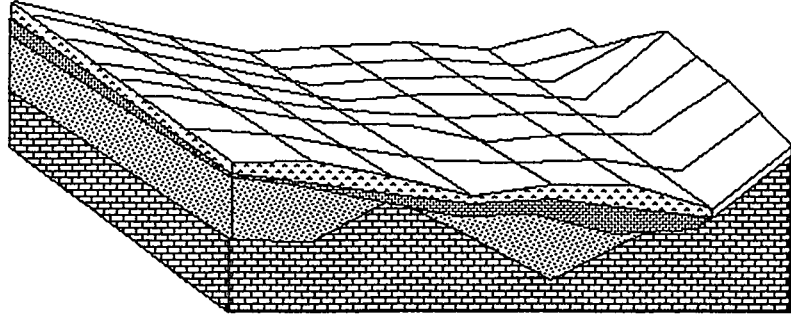
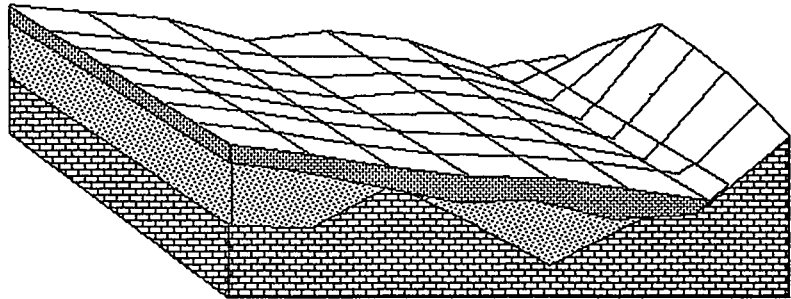
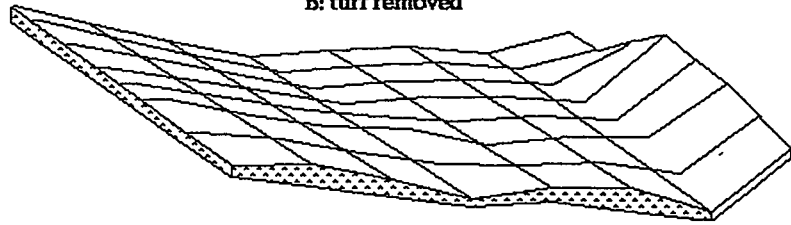


Figure 1: A Location 1 area A

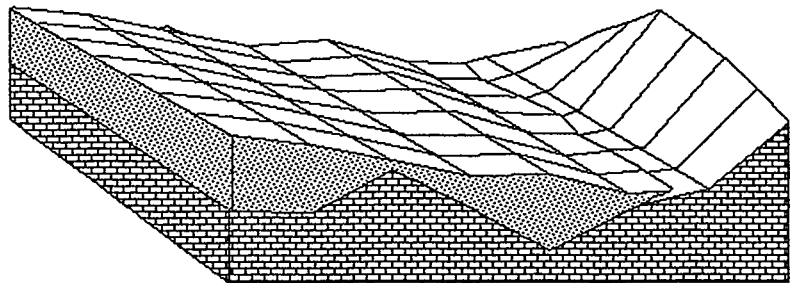
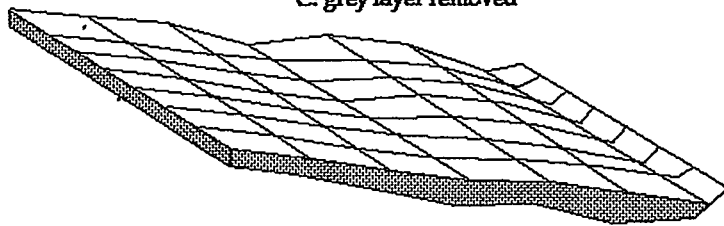
-  turf
-  grey layer
-  sand
-  bedrock



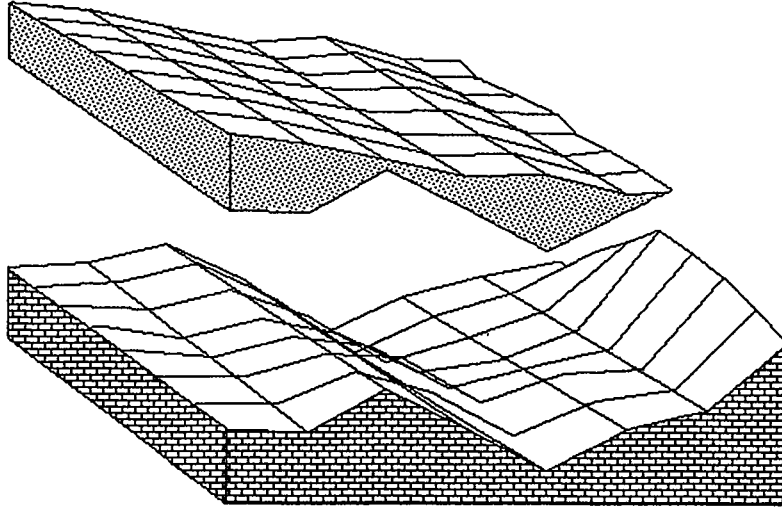
B: turf removed



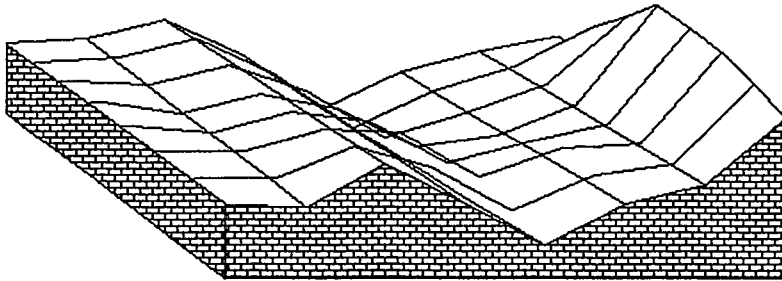
C: grey layer removed



D: sand removed



E: bedrock



F: topography at time of occupation

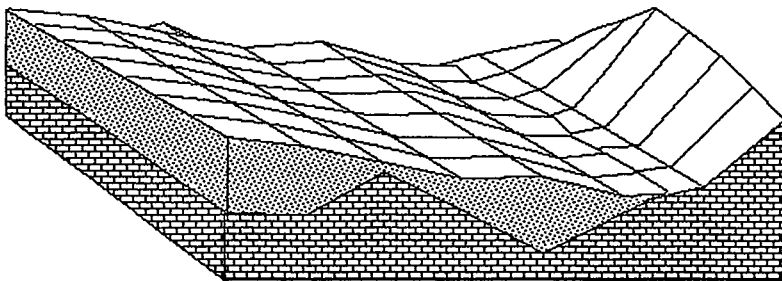
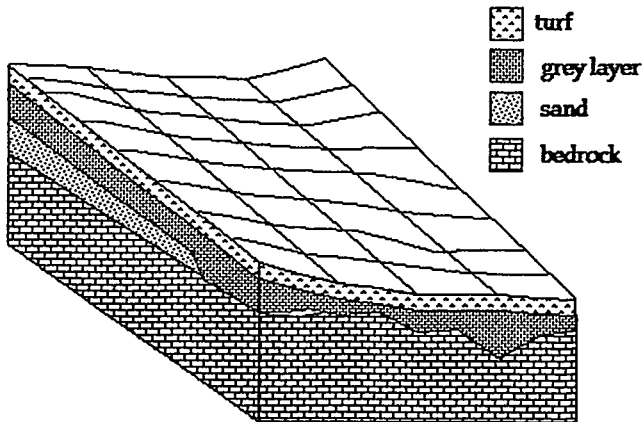
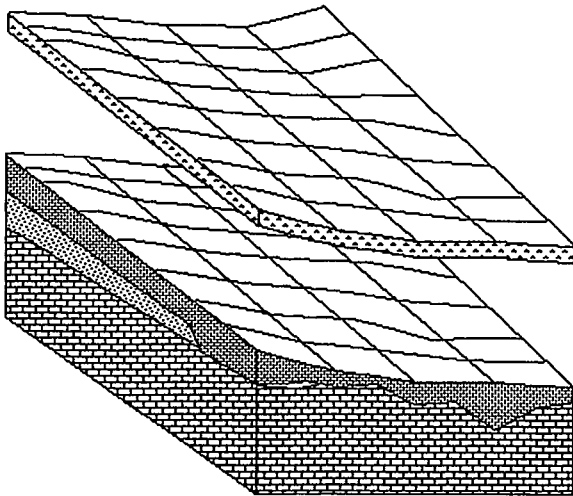


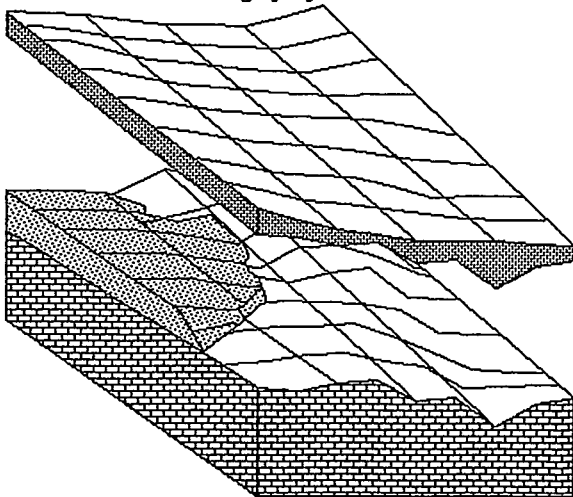
Figure 2: A Location 1 area B



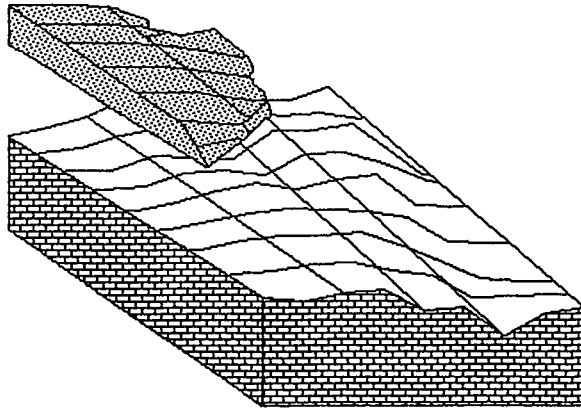
B: turf removed



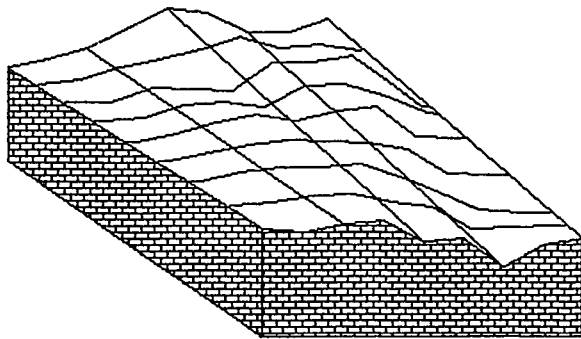
C: grey layer removed



D: sand removed



E: bedrock



F: topography at the time of occupation

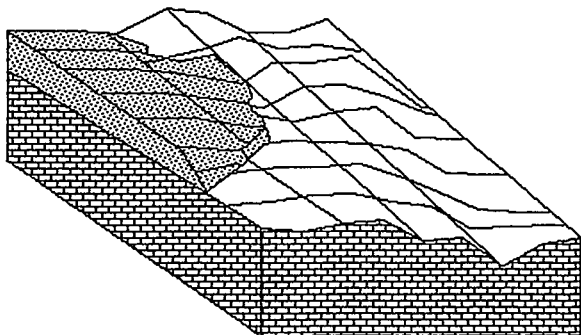


Figure 3 a: general catalogue

C 34478		TOHELLINGA LOKATION 1		cat. #	
#	22	99x57y sø	lag	3	229-39
AUFLAG		4,flint			
	total	4			
IRREGULAR		6,flint,1,chert			
	total	7			
TOTAL AYSLAG		11			
SPLINTER		3,flint			
	total	3			
TOTAL AVFALL		14			
FLEKKER		0			
MIKROFLEKKER		3,flint			240-42
TOTAL FLEKKER		3			
			artifacts		
#	TOTAL PIECES	17	243 retouched fragment		

Figure 3 b: technical information of specific catalogue

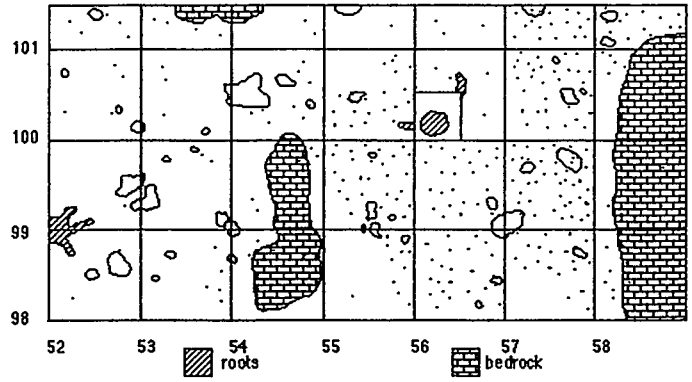
TOOL #	275	Material	flint	Coord	100x57y nø	1	
TOOL length	32	width	20	thickness	11	weight	-
	mid-point width	17	mid-point thickness	9			
PLATFORM width	0	thickness	0	type	missing		
LATERAL EDGES	non-parallel		DORSAL RIDGES	non-parallel			
CORTEK	none		#				
PERCUSSION	missing	missing	missing				
BUTT	missing						
BULB	missing						
RETOUCH	flake						
POSITION OF RETOUCH	distal		left	right			
RETOUCH TYPE	use	continuous	unifacial	direct			
EDGE FORM	concave		convex				
END FORM	straight						

Figure 3c: results of specific catalogue

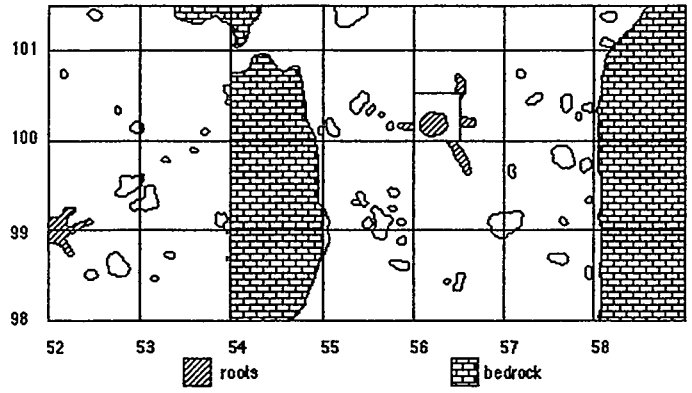
TOOL #	275	↑	flint	100x57y nø	1
REPORT	TYPE	END/ SIDE SCRAPER		FLAKE	
TECH TYPE	INDETERMINATE		NO DATA	NON-CORTICAL	
TECH	microwear data	?		?	
MACRO					
MICRO					
			FUNCT TYPE ?		
FAST	marginal retouch on right lat concave on left let retouch on end do FAST			↑ ↓	←

Plans of area A layers 1-3

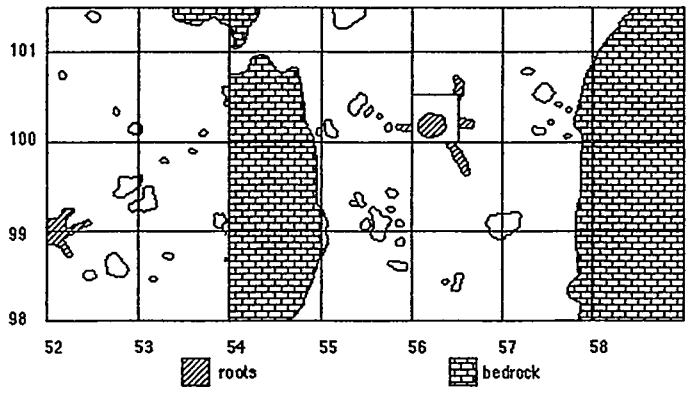
AREA A LAG 1



AREA A LAG 2

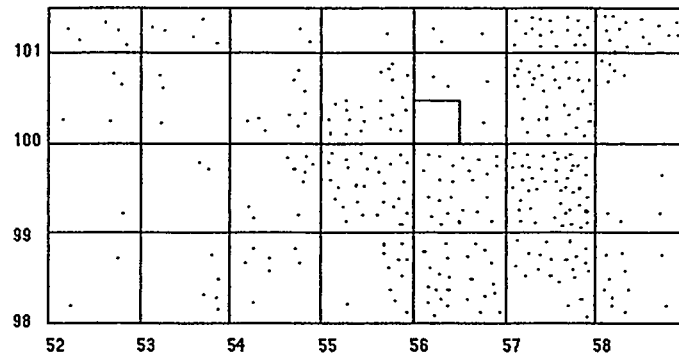


AREA A LAG 3

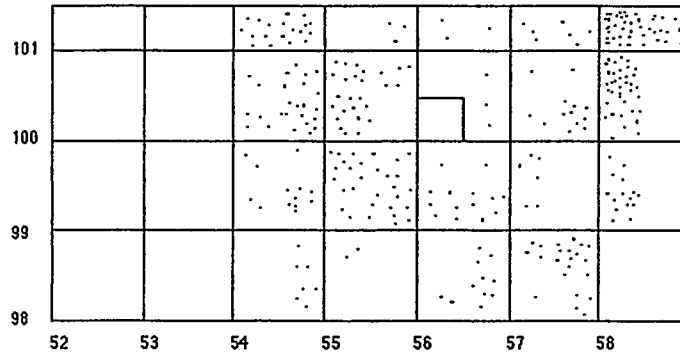


Finds distributions: area A layers 1-3

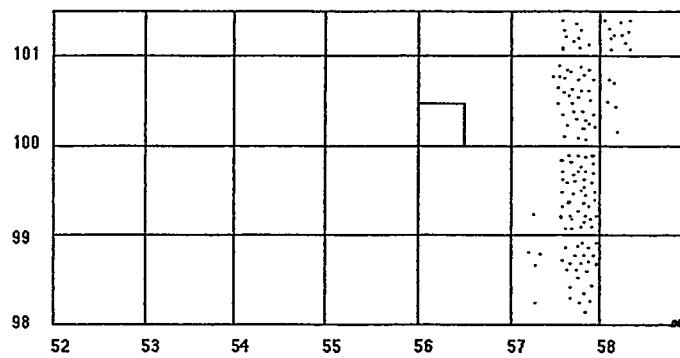
AREA A LAG 1



AREA A LAG 2

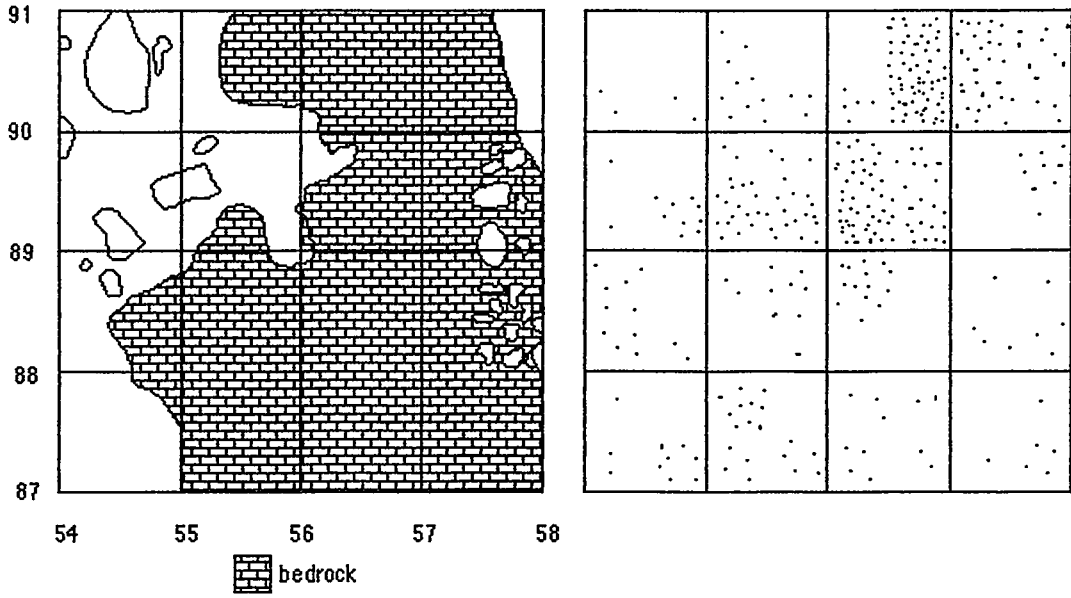


AREA A LAG 3

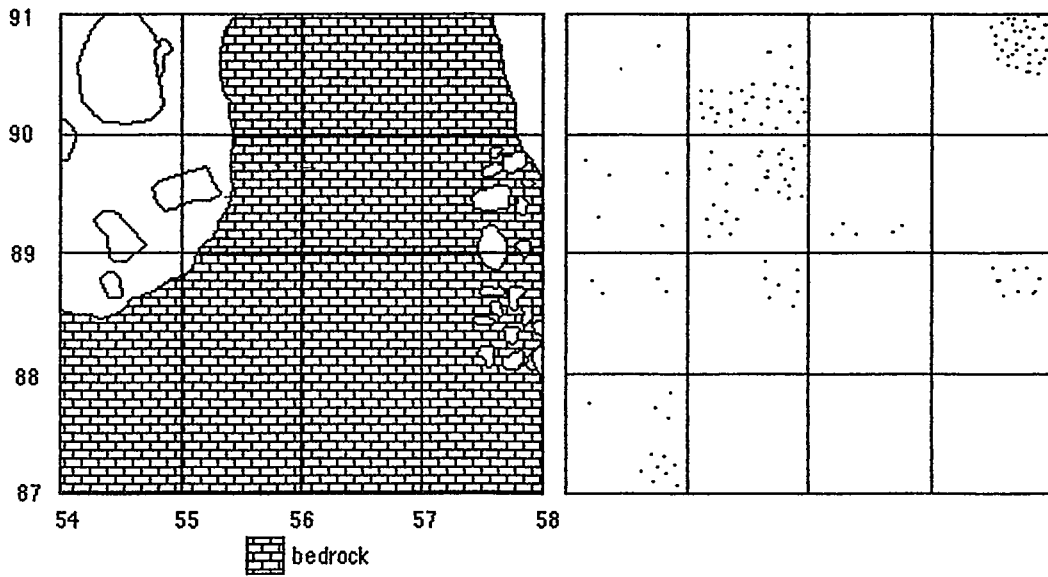


Plans and finds distribution area B layers 1-2

AREA B LAG 1



AREA B LAG 2



TOHELLINGA LOK 1

1	116x55y sv LAG ps avslag 1 irreg 2 splinter 1 tot.avfall 4	TOTAL 4
2	101x44y sv LAG ps avslag 1 irreg 6 splinter 2 tot.avfall 9	TOTAL 9
3	94x55y sv LAG ps flekker 1	TOTAL 1
4	89x55y sv LAG ps avslag 2 irreg 6 splinter 5 tot.avfall 13 flekker 1	TOTAL 14
5	85x55y sv LAG ps irreg 2 tot.avfall 2	TOTAL 2
6	82x64y sv LAG ps avslag 1 tot.avfall 1 flekker 1	TOTAL 2
7	77x65y sv LAG ps avslag 1 irreg 1 tot.avfall 2	TOTAL 2
8	101x58y sø LAG 2 avslag 2 irreg 7 splinter 2 tot.avfall 11 flekker 1	TOTAL 12
9	101x58y sv LAG 2 avslag 6 irreg 16 splinter 4 tot.avfall 26 flekker 5	TOTAL 31
10	100x52y nø LAG 1 avslag 1 irreg 1 tot.avfall 2	TOTAL 2
11	100x52y sø LAG 1 avslag 1 tot.avfall 1	TOTAL 1
12	100x52y sv LAG 1 irreg 1 tot.avfall 1	TOTAL 1
13	100x56y sø LAG 2 irreg 2 tot.avfall 2	TOTAL 2
14	101x57y sø LAG 3 irreg 4 splinter 1 tot.avfall 5 flekker 4	TOTAL 9
15	99x54y sv LAG 1 irreg 1 splinter 1 tot.avfall 2	TOTAL 2
16	99x54y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
17	99x54y nø LAG 1 avslag 1 irreg 3 splinter 2 tot.avfall 6	TOTAL 6
18	100x57y nø LAG 3 avslag 5 irreg 7 splinter 9 tot.avfall 21 flekker 3	TOTAL 24
19	100x57y sø LAG 3 avslag 3 irreg 2 splinter 3 tot.avfall 8 flekker 2	TOTAL 10
20	99x57y nø LAG 3 avslag 5 irreg 6 splinter 12 tot.avfall 23	TOTAL 23
21	99x57y sv LAG 3 avslag 1 tot.avfall 1	TOTAL 1
22	99x57y sø LAG 3 avslag 4 irreg 7 splinter 3 tot.avfall 14 flekker 3	TOTAL 17
23	100x58y sv LAG 3 splinter 1 tot.avfall 1	TOTAL 1
24	100x58y nv LAG 3 avslag 1 irreg 1 splinter 2 tot.avfall 4	TOTAL 4
25	101x58y sv LAG 3 avslag 3 irreg 4 splinter 3 tot.avfall 10 flekker 1	TOTAL 11
26	99x56y nø LAG 1 avslag 2 irreg 4 splinter 1 tot.avfall 7	TOTAL 7
27	99x56y nv LAG 1 avslag 2 irreg 2 splinter 2 tot.avfall 6	TOTAL 6
28	99x56y sv LAG 1 avslag 2 irreg 1 tot.avfall 3	TOTAL 3

29	99x56y sø LAG 1 avslag 1 irreg 3 splinter 3 tot.avfall 7 flekker 1	TOTAL 8
30	100x56y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
31	100x56y nø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
32	100x56y nv LAG 1 irreg 1 splinter 1 tot.avfall 2	TOTAL 2
33	99x57y nv LAG 2 avslag 2 splinter 1 tot.avfall 3 flekker 1	TOTAL 4
34	99x57y sv LAG 2 irreg 2 tot.avfall 2	TOTAL 2
35	88x57y nø LAG 2 avslag 5 irreg 2 splinter 6 tot.avfall 13	TOTAL 13
36	90x57y nø LAG 2 avslag 8 irreg 14 splinter 15 tot.avfall 37 flekker 2	TOTAL 39
37	99x56y nv LAG 2 avslag 1 tot.avfall 1	TOTAL 1
38	99x56y nø LAG 2 avslag 1 tot.avfall 1	TOTAL 1
39	99x56y sø LAG 2 avslag 1 irreg 1 splinter 3 tot.avfall 5 flekker 1	TOTAL 6
40	99x56y sv LAG 2 avslag 1 irreg 3 splinter 1 tot.avfall 5 flekker 1	TOTAL 6
41	98x56y sø LAG 2 irreg 5 tot.avfall 5 flekker 1	TOTAL 6
42	98x56y sv LAG 2 avslag 1 irreg 1 tot.avfall 2	TOTAL 2
43	98x56y nø LAG 2 avslag 2 splinter 1 tot.avfall 3	TOTAL 3
44	100x55y nv LAG 2 avslag 1 irreg 3 splinter 5 tot.avfall 9	TOTAL 9
45	100x55y sv LAG 2 avslag 1 irreg 3 splinter 7 tot.avfall 11 flekker 1	TOTAL 12
46	100x55y nø LAG 2 avslag 2 irreg 2 splinter 1 tot.avfall 5	TOTAL 5
47	101x57y sv LAG 2 irreg 3 tot.avfall 3	TOTAL 3
48	101x57y sø LAG 2 irreg 1 splinter 3 tot.avfall 4	TOTAL 4
49	98x55y nv LAG 2 avslag 1 irreg 1 tot.avfall 2	TOTAL 2
50	100x57y nv LAG 2 irreg 1 tot.avfall 1	TOTAL 1
51	100x57y nø LAG 2 flekker 1	TOTAL 1
52	100x57y sv LAG 2 irreg 2 tot.avfall 2	TOTAL 2
53	100x57y sø LAG 2 irreg 7 splinter 1 tot.avfall 8 flekker 1	TOTAL 9
54	101x57y sv LAG 1 irreg 7 splinter 1 tot.avfall 8	TOTAL 8
55	101x57y sø LAG 1 avslag 3 irreg 1 splinter 6 tot.avfall 10	TOTAL 10
56	88x55y nø LAG 1 avslag 2 irreg 4 splinter 1 tot.avfall 7	TOTAL 7
57	88x55y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
58	88x55y nv LAG 1 irreg 2 tot.avfall 2	TOTAL 2
59	99x55y nv LAG 2 irreg 4 splinter 6 tot.avfall 10 flekker 1	TOTAL 11
60	99x55y sv LAG 2 irreg 1 tot.avfall 1 flekker 1	TOTAL 2
61	99x55y nø LAG 2 avslag 1 irreg 2 splinter 3 tot.avfall 6	TOTAL 6

62	99x55y sø LAG 2 avslag 2 irreg 4 splinter 4 tot.avfall 10 flekker 1	TOTAL 11
63	101x55y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
64	101x56y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
65	101x56y sv LAG 1 avslag 1 irreg 1 tot.avfall 2	TOTAL 2
66	100x57y nv LAG 1 avslag 5 irreg 5 tot.avfall 10	TOTAL 10
67	100x57y nø LAG 1 avslag 4 irreg 4 splinter 1 tot.avfall 9	TOTAL 9
68	100x57y sø LAG 1 avslag 5 irreg 2 tot.avfall 7 flekker 1	TOTAL 8
69	100x57y sv LAG 1 irreg 4 splinter 3 tot.avfall 7	TOTAL 7
70	87x55y sø LAG 1 irreg 5 tot.avfall 5	TOTAL 5
71	87x55y nv LAG 1 irreg 6 splinter 4 tot.avfall 10	TOTAL 10
72	87x55y sv LAG 1 avslag 3 irreg 1 tot.avfall 4	TOTAL 4
73	89x55y nv LAG 1 irreg 3 splinter 1 tot.avfall 4	TOTAL 4
74	89x55y nø LAG 1 splinter 4 tot.avfall 4	TOTAL 4
75	89x55y sø LAG 1 irreg 10 splinter 4 tot.avfall 14 flekker 1	TOTAL 15
76	99x52y sø LAG 1 splinter 1 tot.avfall 1	TOTAL 1
77	101x54y sø LAG 2 avslag 4 irreg 3 splinter 3 tot.avfall 10 flekker 1	TOTAL 11
78	101x54y sv LAG 2 avslag 1 irreg 3 splinter 1 tot.avfall 5 flekker 3	TOTAL 8
79	89x54y sv LAG 1 irreg 1 tot.avfall 1	TOTAL 1
80	89x54y sø LAG 1 avslag 3 irreg 2 splinter 4 tot.avfall 9	TOTAL 9
81	89x54y nv LAG 1 splinter 1 tot.avfall 1	TOTAL 1
82	100x58y sv LAG 2 avslag 3 irreg 7 splinter 2 tot.avfall 12 flekker 1	TOTAL 13
83	100x58y nv LAG 2 avslag 5 irreg 12 splinter 6 tot.avfall 23 flekker 1	TOTAL 24
84	98x58y sv LAG 1 irreg 6 tot.avfall 6	TOTAL 6
85	98x58y nv LAG 1 avslag 1 irreg 1 splinter 1 tot.avfall 3	TOTAL 3
86	98x54y sv LAG 2 irreg 3 splinter 1 tot.avfall 4	TOTAL 4
87	98x54y nv LAG 2 irreg 2 splinter 1 tot.avfall 3	TOTAL 3
88	131x60y sv LAG PS irreg 2 tot.avfall 2	TOTAL 2
89	89x56y nv LAG 1 irreg 12 splinter 8 tot.avfall 20	TOTAL 20
90	89x56y nø LAG 1 irreg 7 splinter 1 tot.avfall 8	TOTAL 8
91	89x56y sø LAG 2 avslag 1 tot.avfall 1	TOTAL 1
92	89x56y sv LAG 2 irreg 1 splinter 2 tot.avfall 3	TOTAL 3

93	89x56y sv LAG 1 avslag 3 irreg 10 splinter 10 tot.avfall 23 flekker 3	TOTAL 26
94	89x56y sø LAG 1 avslag 3 irreg 4 splinter 5 tot.avfall 12 flekker 1	TOTAL 13
95	100x58y nv LAG 1 avslag 1 irreg 4 tot.avfall 5	TOTAL 5
96	99x58y sv LAG 1 irreg 1 splinter 1 tot.avfall 2	TOTAL 2
97	98x57y nv LAG 2 irreg 3 splinter 1 tot.avfall 4	TOTAL 4
98	98x57y nø LAG 2 avslag 1 irreg 5 splinter 5 tot.avfall 11 flekker 1	TOTAL 12
99	98x57y sv LAG 2 irreg 1 tot.avfall 1	TOTAL 1
100	101x53y sv LAG 1 splinter 1 tot.avfall 1 flekker 1	TOTAL 2
101	101x53y sø LAG 1 irreg 3 tot.avfall 3	TOTAL 3
102	101x52y sv LAG 1 irreg 1 tot.avfall 1 flekker 1	TOTAL 2
103	101x52y sø LAG 1 irreg 1 splinter 2 tot.avfall 3	TOTAL 3
104	99x57y sø LAG 1 avslag 2 irreg 8 splinter 4 tot.avfall 14 flekker 1	TOTAL 15
105	99x57y nø LAG 1 avslag 4 irreg 8 tot.avfall 12	TOTAL 12
106	99x57y nv LAG 1 avslag 4 irreg 5 splinter 4 tot.avfall 13	TOTAL 13
107	99x57y sv LAG 1 irreg 4 tot.avfall 4 flekker 1	TOTAL 5
108	98x53y sø LAG 1 avslag 1 irreg 2 tot.avfall 3 flekker 1	TOTAL 4
109	99x53y nø LAG 1 irreg 2 tot.avfall 2	TOTAL 2
110	98x57y nø LAG 1 avslag 5 irreg 5 splinter 2 tot.avfall 12	TOTAL 12
111	98x57y sø LAG 1 avslag 2 irreg 1 tot.avfall 3	TOTAL 3
112	98x57y nv LAG 1 avslag 2 irreg 4 tot.avfall 6	TOTAL 6
113	100x54y sø LAG 1 avslag 1 splinter 2 tot.avfall 3	TOTAL 3
114	100x54y sv LAG 1 irreg 2 splinter 1 tot.avfall 3	TOTAL 3
115	100x54y nø LAG 1 irreg 2 splinter 1 tot.avfall 3	TOTAL 3
116	100x55y nø LAG 1 irreg 5 tot.avfall 5	TOTAL 5
117	100x55y sø LAG 1 avslag 3 irreg 2 splinter 2 tot.avfall 7	TOTAL 7
118	100x55y sv LAG 1 avslag 2 irreg 8 tot.avfall 10	TOTAL 10
119	101x58y sv LAG 1 avslag 1 irreg 6 splinter 1 tot.avfall 8	TOTAL 8
120	101x58y sø LAG 1 avslag 1 irreg 4 splinter 1 tot.avfall 6 flekker 1	TOTAL 7
121	98x57y sø LAG 3 avslag 1 irreg 4 splinter 2 tot.avfall 7 flekker 1	TOTAL 8

122	98x57y nØ LAG 3 avslag 3 irreg 3 splinter 6 tot.avfall 12 flekker 4	TOTAL 16
123	98x57y nv LAG 3 irreg 1 splinter 2 tot.avfall 3	TOTAL 3
124	98x57y sv LAG 3 splinter 1 tot.avfall 1	TOTAL 1
125	99x55y nØ LAG 1 avslag 2 irreg 5 tot.avfall 7	TOTAL 7
126	99x55y sv LAG 1 avslag 1 irreg 2 splinter 2 tot.avfall 5	TOTAL 5
127	99x55y nv LAG 1 avslag 2 irreg 4 splinter 4 tot.avfall 10	TOTAL 10
128	99x55y sø LAG 1 irreg 5 tot.avfall 5 flekker 1	TOTAL 6
129	90x54y sv LAG 1 irreg 2 tot.avfall 2	TOTAL 2
130	90x54y sø LAG 1 irreg 2 tot.avfall 2	TOTAL 2
131	87x54y sv LAG 1 irreg 2 tot.avfall 2	TOTAL 2
132	87x54y sø LAG 1 irreg 2 splinter 5 tot.avfall 7	TOTAL 7
133	87x54y nv LAG 1 avslag 1 tot.avfall 1	TOTAL 1
134	101x55y sø LAG 2 irreg 3 tot.avfall 3	TOTAL 3
135	100x56y nØ LAG 2 irreg 1 tot.avfall 1	TOTAL 1
136	98x57y sø LAG 2 irreg 4 tot.avfall 4	TOTAL 4
137	90x55y sø LAG 1 irreg 3 tot.avfall 3	TOTAL 3
138	90x55y sv LAG 1 avslag 3 irreg 4 tot.avfall 7	TOTAL 7
139	90x55y nv LAG 1 splinter 3 tot.avfall 3	TOTAL 3
140	101x56y sø LAG 2 irreg 1 tot.avfall 1	TOTAL 1
141	101x56y sv LAG 2 irreg 2 tot.avfall 2	TOTAL 2
142	88x54y sø LAG 1 irreg 2 tot.avfall 2	TOTAL 2
143	88x54y nv LAG 1 avslag 1 irreg 4 tot.avfall 5 flekker 1	TOTAL 6
144	88x54y sv LAG 1 irreg 3 tot.avfall 3 flekker 1	TOTAL 4
145	98x54y nØ LAG 1 avslag 2 tot.avfall 2	TOTAL 2
146	98x54y sv LAG 1 avslag 1 tot.avfall 1	TOTAL 1
147	98x54y nv LAG 1 avslag 1 irreg 3 tot.avfall 4	TOTAL 4
148	99x54y sv LAG 2 irreg 2 tot.avfall 2	TOTAL 2
149	99x54y sø LAG 2 irreg 4 splinter 4 tot.avfall 8	TOTAL 8
150	99x54y nv LAG 2 irreg 2 tot.avfall 2	TOTAL 2
151	99x54y nØ LAG 2 avslag 1 tot.avfall 1	TOTAL 1
152	100x54y nØ LAG 2 irreg 3 splinter 4 tot.avfall 7	TOTAL 7
153	100x54y sv LAG 2 irreg 2 splinter 2 tot.avfall 4	TOTAL 4
154	100x54y sø LAG 2 avslag 1 irreg 8 splinter 2 tot.avfall 11 flekker 1	TOTAL 12
155	100x54y nv LAG 2 splinter 2 tot.avfall 2	TOTAL 2
156	100x53y sv LAG 1 splinter 1 tot.avfall 1	TOTAL 1

157	100x53y nv LAG 1 irreg 2 tot.avfall 2	TOTAL 2
158	101x54y sø LAG 1 irreg 1 splinter 1 tot.avfall 2	TOTAL 2
159	98x52y sv LAG 1 irreg 1 tot.avfall 1	TOTAL 1
160	98x52y nø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
161	98x58y nø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
162	98x58y sø LAG 1 irreg 1 tot.avfall 1	TOTAL 1
163	98x55y sø LAG 1 irreg 3 tot.avfall 3	TOTAL 3
164	98x55y sv LAG 1 flekker 1	TOTAL 1
165	98x55y nø LAG 1 avslag 4 irreg 3 tot.avfall 7	TOTAL 7
166	98x56y sv LAG 1 irreg 6 tot.avfall 6 flekker 1	TOTAL 7
167	98x56y nv LAG 1 avslag 1 irreg 3 tot.avfall 4 flekker 2	TOTAL 6
168	98x56y nø LAG 1 avslag 1 irreg 3 tot.avfall 4	TOTAL 4
169	98x56y sø LAG 1 irreg 6 tot.avfall 6 flekker 1	TOTAL 7
170	99x58y sv LAG 2 avslag 3 irreg 7 splinter 1 tot.avfall 11	TOTAL 11
171	99x58y nv LAG 2 avslag 2 irreg 1 splinter 1 tot.avfall 4	TOTAL 4
172	89x55y nø LAG 2 avslag 3 irreg 7 splinter 5 tot.avfall 15 flekker 1	TOTAL 16
173	89x55y nv LAG 2 irreg 3 splinter 1 tot.avfall 4	TOTAL 4
174	89x55y sø LAG 2 irreg 4 splinter 3 tot.avfall 7	TOTAL 7
175	88x54y nv LAG 2 avslag 2 tot.avfall 2	TOTAL 2
176	88x54y nø LAG 2 avslag 1 irreg 1 tot.avfall 2	TOTAL 2
177	90x55y sø LAG 2 avslag 2 irreg 7 splinter 8 tot.avfall 17	TOTAL 17
178	90x55y nv LAG 2 irreg 3 tot.avfall 3	TOTAL 3
179	90x55y sv LAG 2 irreg 8 splinter 1 tot.avfall 9 flekker 1	TOTAL 10
180	89x54y sø LAG 2 avslag 1 tot.avfall 1	TOTAL 1
181	89x54y nø LAG 2 irreg 1 tot.avfall 1	TOTAL 1
182	89x54y sv LAG 2 irreg 1 tot.avfall 1	TOTAL 1
183	89x54y nv LAG 2 irreg 1 splinter 1 tot.avfall 2	TOTAL 2
184	90x54y nø LAG 2 avslag 1 tot.avfall 1	TOTAL 1
185	87x54y sø LAG 2 avslag 1 irreg 7 tot.avfall 8	TOTAL 8
186	87x54y nv LAG 2 flekker 1	TOTAL 1
187	87x54y nø LAG 2 avslag 1 irreg 1 splinter 1 tot.avfall 3	TOTAL 3
188	88x56y nv LAG 1 avslag 3 irreg 4 splinter 7 tot.avfall 14	TOTAL 14
189	89x57y sø LAG 1 avslag 1 tot.avfall 1	TOTAL 1
190	89x57y nø LAG 1 avslag 1 irreg 4 splinter 3 tot.avfall 8	TOTAL 8
191	90x57y nø LAG 1 irreg 7 splinter 2 tot.avfall 9	TOTAL 9
192	90x57y sv LAG 1 irreg 7 splinter 6 tot.avfall 13	TOTAL 13

193	90x57y sø LAG 1	irreg 3	tot.avfall 3	TOTAL 3
194	90x57y nv LAG 1	irreg 11 splinter 5	tot.avfall 16	TOTAL 16
195	88x57y sv LAG 1	irreg 1 splinter 2	tot.avfall 3	TOTAL 3
196	88x57y sø LAG 1	irreg 1 splinter 2	tot.avfall 3	TOTAL 3
197	88x57y nø LAG 1	irreg 1	tot.avfall 1	TOTAL 1
198	88x57y nv LAG 1	irreg 1	tot.avfall 1	TOTAL 1
199	87x56y nø LAG 1	irreg 2	tot.avfall 2	TOTAL 2
200	87x56y sv LAG 1	avslag 1 irreg 1 splinter 2	tot.avfall 4	TOTAL 4
201	87x56y sø LAG 1	irreg 1 splinter 1	tot.avfall 2	TOTAL 2
202	87x57y sø LAG 1	irreg 1 splinter 3	tot.avfall 4	TOTAL 4
203	87x57y sv LAG 1	irreg 1	tot.avfall 1	TOTAL 1
204	87x57y nø LAG 1	irreg 1	tot.avfall 1	TOTAL 1
205	87x57y nv LAG 1	avslag 1 irreg 2	tot.avfall 3	TOTAL 3
206	90x56y sø LAG 1	avslag 5 irreg 22 splinter 16	tot.avfall 43 flekker 1	TOTAL 44
207	90x56y nø LAG 1	avslag 1 irreg 16 splinter 3	tot.avfall 20 flekker 1	TOTAL 21
208	90x56y sv LAG 1	irreg 4 splinter 1	tot.avfall 5	TOTAL 5
209	103x55y sv LAG PS	avslag 1 irreg 5	tot.avfall 6	TOTAL 6
210	103x57y nø LAG PS	irreg 1	tot.avfall 1	TOTAL 1
211	løsfunn	irreg 1	tot.avfall 1	TOTAL 1

NB: nye nr. etter

TOOLS :

	<i>slide på sandupe : se bak</i>		
105	101x44y sv ps	retouched flake	flint
115	94x55y sv ps	retouched fragment	patinated flint
208	100x57y nø lag 3	bipolar core	flint
243	99x57y sø lag 3	retouched fragment	flint
254	101x58y sv lag 3	retouched flake	flint
273	99x56y nø lag 2	scraper fragment	flint
276	98x56y sø lag 2	bladelet core	flint
274	98x56y nø lag 2	flake core fragment	flint
275	100x57y nø lag 1	side scraper	flint
277	98x57y nv lag 2	retouched blade	flint
278	100x54y sø lag 1	bladelet core fragment	flint
279	98x56y sv lag 1	flake scraper	flint
280	90x55y sv lag 1	core fragment	flint

193	90x57y sø LAG 1	irreg 3	tot.avfall 3	TOTAL 3
194	90x57y nv LAG 1	irreg 11 splinter 5	tot.avfall 16	TOTAL 16
195	88x57y sv LAG 1	irreg 1 splinter 2	tot.avfall 3	TOTAL 3
196	88x57y sø LAG 1	irreg 1 splinter 2	tot.avfall 3	TOTAL 3
197	88x57y nø LAG 1	irreg 1	tot.avfall 1	TOTAL 1
198	88x57y nv LAG 1	irreg 1	tot.avfall 1	TOTAL 1
199	87x56y nø LAG 1	irreg 2	tot.avfall 2	TOTAL 2
200	87x56y sv LAG 1	avslag 1 irreg 1 splinter 2	tot.avfall 4	TOTAL 4
201	87x56y sø LAG 1	irreg 1 splinter 1	tot.avfall 2	TOTAL 2
202	87x57y sø LAG 1	irreg 1 splinter 3	tot.avfall 4	TOTAL 4
203	87x57y sv LAG 1	irreg 1	tot.avfall 1	TOTAL 1
204	87x57y nø LAG 1	irreg 1	tot.avfall 1	TOTAL 1
205	87x57y nv LAG 1	avslag 1 irreg 2	tot.avfall 3	TOTAL 3
206	90x56y sø LAG 1	avslag 5 irreg 22 splinter 16	tot.avfall 43 flekker 1	TOTAL 44
207	90x56y nø LAG 1	avslag 1 irreg 16 splinter 3	tot.avfall 20 flekker 1	TOTAL 21
208	90x56y sv LAG 1	irreg 4 splinter 1	tot.avfall 5	TOTAL 5
209	103x55y sv LAG PS	avslag 1 irreg 5	tot.avfall 6	TOTAL 6
210	103x57y nø LAG PS	irreg 1	tot.avfall 1	TOTAL 1
211	løsfunn	irreg 1	tot.avfall 1	TOTAL 1

NB: nye nr. etter
slitesponanalyse

TOOLS

305	101x44y sv ps	retouched flake	flint
315	94x55y sv ps	retouched fragment	patinated flint
408	100x57y nø lag 3	bipolar core	flint
443	99x57y sø lag 3	retouched fragment	flint
454	101x58y sv lag 3	retouched flake	flint
473	99x56y nø lag 2	scraper fragment	flint
476	98x56y sø lag 2	bladelet core	flint
474	98x56y nø lag 2	flake core fragment	flint
475	100x57y nø lag 1	side scraper	flint
477	98x57y nv lag 2	retouched blade	flint
478	100x54y sø lag 1	bladelet core fragment	flint
479	98x56y sv lag 1	flake scraper	flint
480	90x55y sv lag 1	core fragment	flint

MATERIALS

AVSLAG	197 flint	11 chert	1 bergkrystall	1 uberstempt
IRREG	524 flint	111 chert	2 kvarts	3 uberstempt
SPLINTER	295 flint	36 chert		
FLEKKER	1 flint	3 chert		
MIKROFLEKKER	64 flint	5 chert		

TOTALS	1081 flint	166 chert	1 bergkrystall	2 kvarts	4 uberstempt
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TOTAL	1254
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DEBITAGE

AVSLAG	210
IRREG	640
SPLINTER	331
FLEKKER	4
MIKROFLEKKER	69

TOTAL	1254
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TOHELLINGA LOK 2

1	22x20y sv LAG ps	avslag 2 tot. avfall 2	TOTAL 2
2	28x20y sv LAG ps	avslag 1 irreg 1 tot. avfall 2	TOTAL 2
3	26x20y nø LAG 1	splinter 2 tot. avfall 2	TOTAL 2
4	26x20y nv LAG 1	irreg 1 tot. avfall 1	TOTAL 1
5	28x20y sø LAG 1	avslag 2 splinter 1 tot. avfall 3	TOTAL 3
6	28x20y nø LAG 1	irreg 4 splinter 2 tot. avfall 6	TOTAL 6
7	28x20y nv LAG 1	irreg 4 splinter 1 tot. avfall 5 flekker 2	TOTAL 7
8	23x20y sv LAG 1	avslag 1 tot. avfall 1 flekker 1	TOTAL 2
9	23x20y nv LAG 1	irreg 1 tot. avfall 1	TOTAL 1
10	24x20y sø LAG 1	avslag 1 tot. avfall 1	TOTAL 1
11	25x20y sø LAG 1	irreg 1 splinter 1 tot. avfall 2	TOTAL 2
12	25x20y sv LAG 1	irreg 1 splinter 1 tot. avfall 2	TOTAL 2
13	27x20y sv LAG 1	irreg 2 tot. avfall 2 flekker 1	TOTAL 3
14	27x20y sø LAG 1	irreg 1 tot. avfall 1 flekker 1	TOTAL 2
15	27x20y nø LAG 1	avslag 1 irreg 1 splinter 2 tot. avfall 4	TOTAL 4
16	27x20y nv LAG 1	irreg 4 tot. avfall 4 flekker 2	TOTAL 6
17	22x20y sø LAG 1	avslag 1 tot. avfall 1	TOTAL 1
18	Løsfunn	irreg 2 tot. avfall 2	TOTAL 2

TOOLS

121	24x20y sø lag 1	side scraper	flint
137	27x20y nv lag 1	scraper	flint

MATERIALS

AVSLAG	8 flint	1 chert
IRREG	21 flint	2 chert
SPLINTER	5 flint	5 chert
FLEKKER	0	
MIKROFLEKKER	7 flint	
TOTALS	41 flint	8 chert
TOTAL	49	

DEBITAGE

AVSLAG	9
IRREG	23
SPLINTER	10
FLEKKER	0
MIKROFLEKKER	7
TOTAL	49

BLACK & WHITE: FILM 1

Neg. nr. 23155

- 0 location 1 area A from east
- 1 location 1 area A from east
- 2 location 1 area A from east
- 3 location 1 area A from west
- 4 location 1 area A from west
- 5 location 1 area A from west
- 6 close of bedrock eastern end of location 1 area A
- 7 location 1 area A from west
- 8 looking north from location 1 area A
- 9 location 1 area A from south west
- 10 location 1 area A from north east
- 11 looking over location 1 area A from north
- 12 looking down on location 2 from west
- 13 overexposed
- 14 overexposed
- 15 location 2 from north
- 16 location 2 from north
- 17 looking over location 2 from south east
- 18 looking over location 2 from south east
- 19 looking over location 2 from north
- 20 location 2 from west
- 21 looking south from location 2

BLACK & WHITE: FILM 2

Neg. nr. 23156

- 0 details of bedrock of location 1 area B
- 1 details of bedrock of location 1 area B
- 2 details of bedrock of location 1 area B
- 3 details of bedrock of location 1 area B
- 4 details of bedrock of location 1 area B
- 5 details of bedrock of location 1 area B
- 6 location 1 area B from north east
- 7 location 1 area A from south
- 8 location 1 area A from west
- 9 location 1 area A from south
- 10 location 1 area A from south showing western part of area
- 11 location 1 area A from north east
- 12 location 1 area A from north east
- 13 location 1 area A from north east
- 14 location 1 area A from north east
- 15 location 1 area A from north showing western part of area
- 16 location 1 area A from south west
- 17 location 1 area B
- 18 surrounding woods location 1
- 19 surrounding woods location 1
- 20 surrounding woods location 1
- 21 surrounding woods location 1



DATE Neg. nr. 23155

SUBJECT TOFFELINGA FILM 1

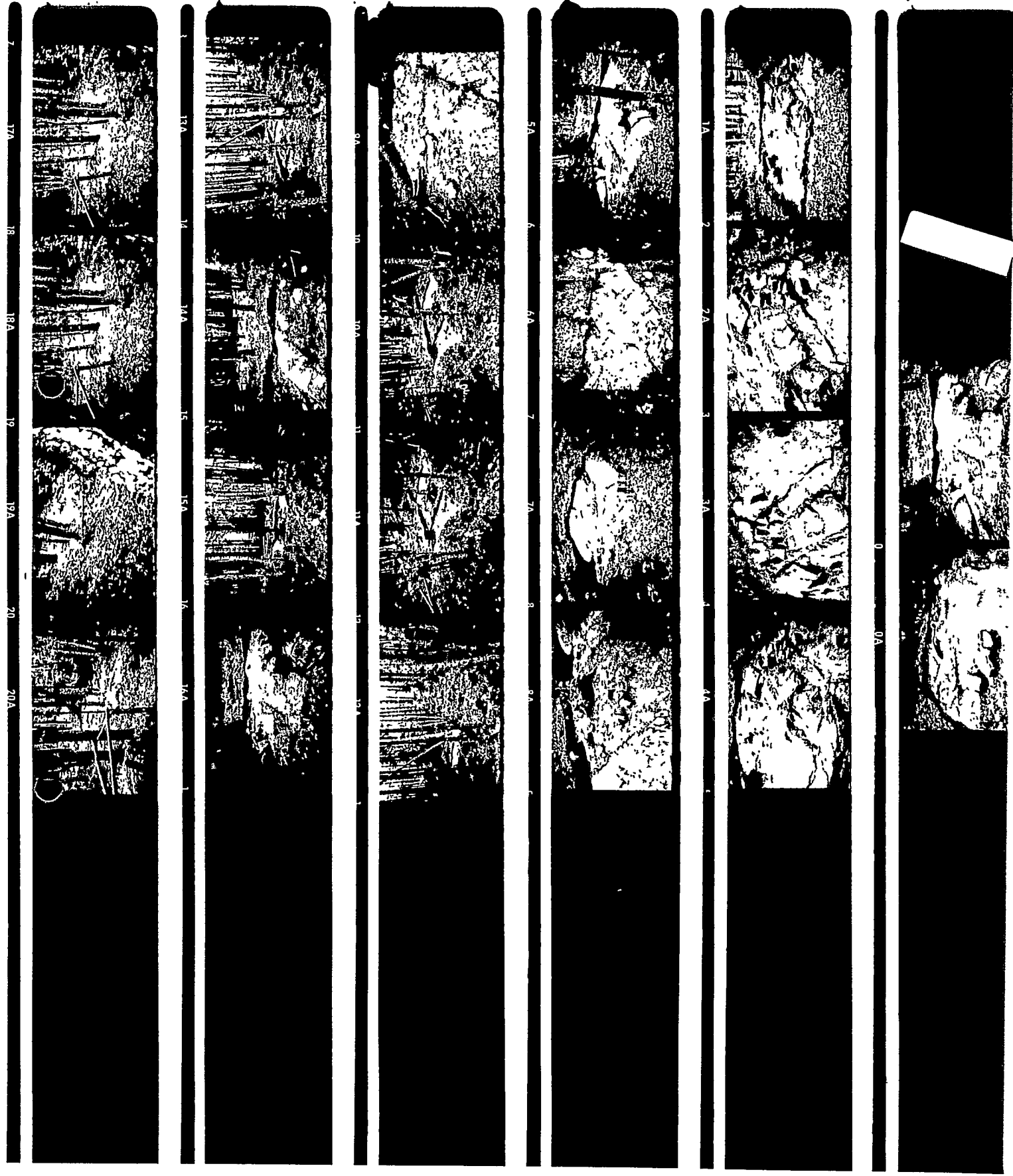
TECHNICAL DATA



DATE *№. нп. 23156*

SUBJECT *ТОПЕЛЛИНГА ФЛМ 7*

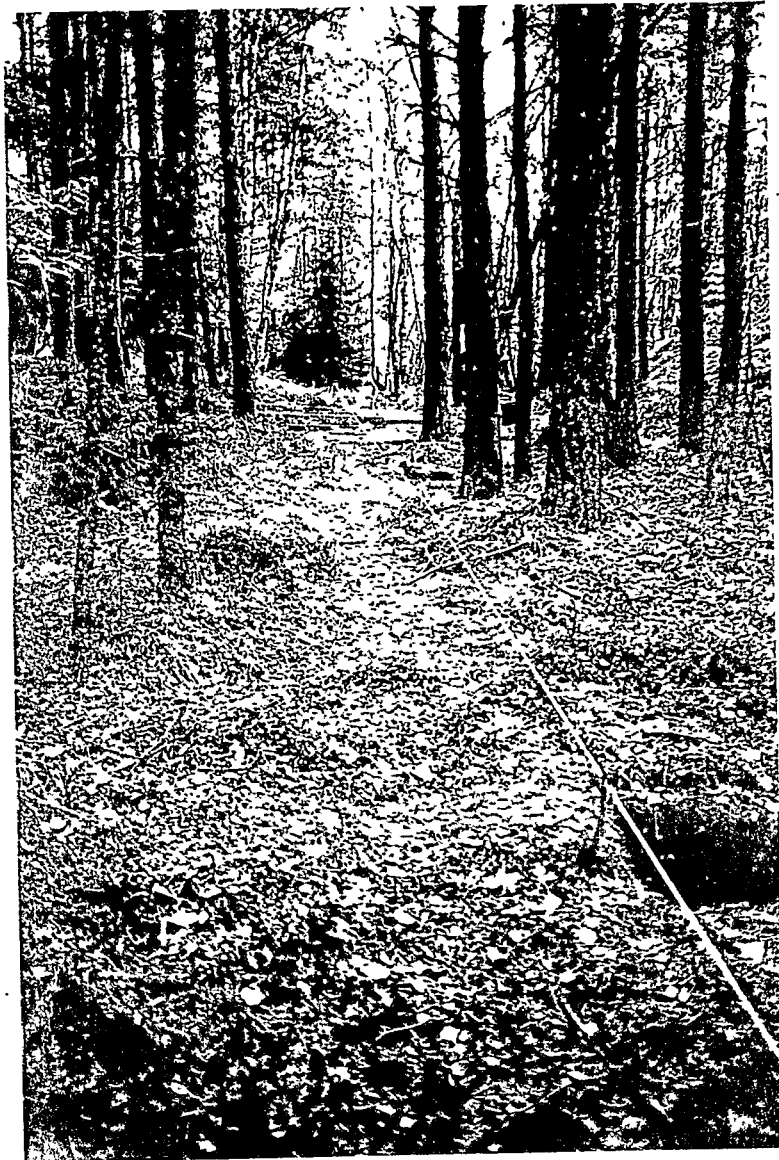
TECHNICAL DATA



TOHELLINGA PHOTO LIST

COLOUR SLIDES

- 1 view of profile cut by road south of Location 2
- 2 view of profile cut by road south of Location 2
- 3 location 2 from south
- 4 location 2 from south west
- 5 location 2 from south east
- 6 location 1 area B from east
- 7 location 1 area A from north
- 8 location 1 area A from east
- 9 location 1 area A from west
- 10 location 2 from south showing trench
- 11 location 2 square 26x17y
- 12 location 2 from south west
- 13 location 2 from north east
- 14 location 1 area A from west
- 15 location 1 area A from east
- 16 location 1 area A from south of western edge of area
- 17 location 1 area A from south showing bedrock in central part of area
- 18 location 1 area A from south showing bedrock in eastern part of area
- 19 location 1 area A from south showing eastern part of area
- 20 ?
- 21 location 1 area B from south showing bedrock in eastern part of area
- 22 location 1 area B from south showing bedrock
- 23 location 1 area B from east showing bedrock
- 24 location 1 area B from north showing bedrock
- 25 location 1 area B from west showing bedrock
- 26 location 1 area A from west showing bedrock at eastern edge of area
- 27 location 1 area A from south east
- 28 location 1 area A from east
- 29 location 1 area B from area A
- 30 looking over location 1 area A from north
- 31 location 1 area B showing bedrock
- 32 location 1 area B from east showing bedrock
- 33 location 1 area B from south showing bedrock
- 34 close up location 1 area B of south east of area
- 35 illustrating wooded nature of area
- 36 illustrating wooded nature of area
- 37 illustrating wooded nature of area
- 38 illustrating wooded nature of area



Tohellinga
As K. Aleashus

lokality 1 west NØ

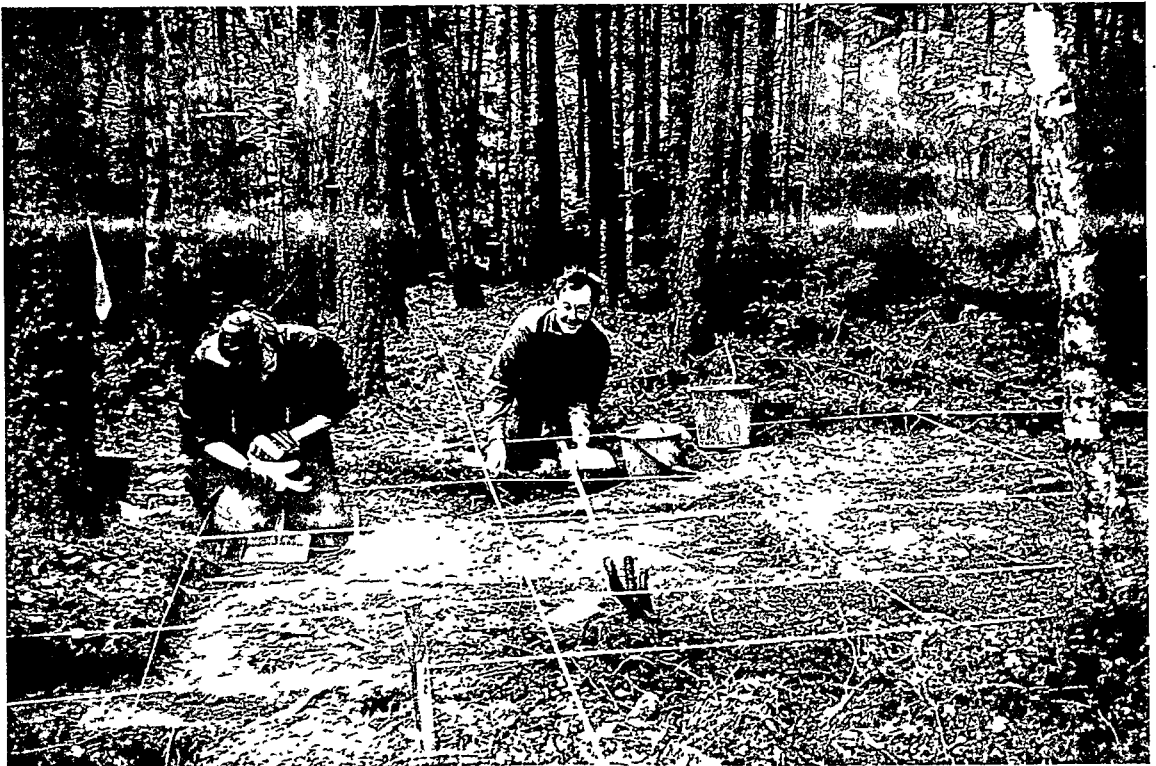


lok I
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Lok. 1 mot



Lok. 1 mot SV



TOHELLINGA PRELIMIARY REPORT

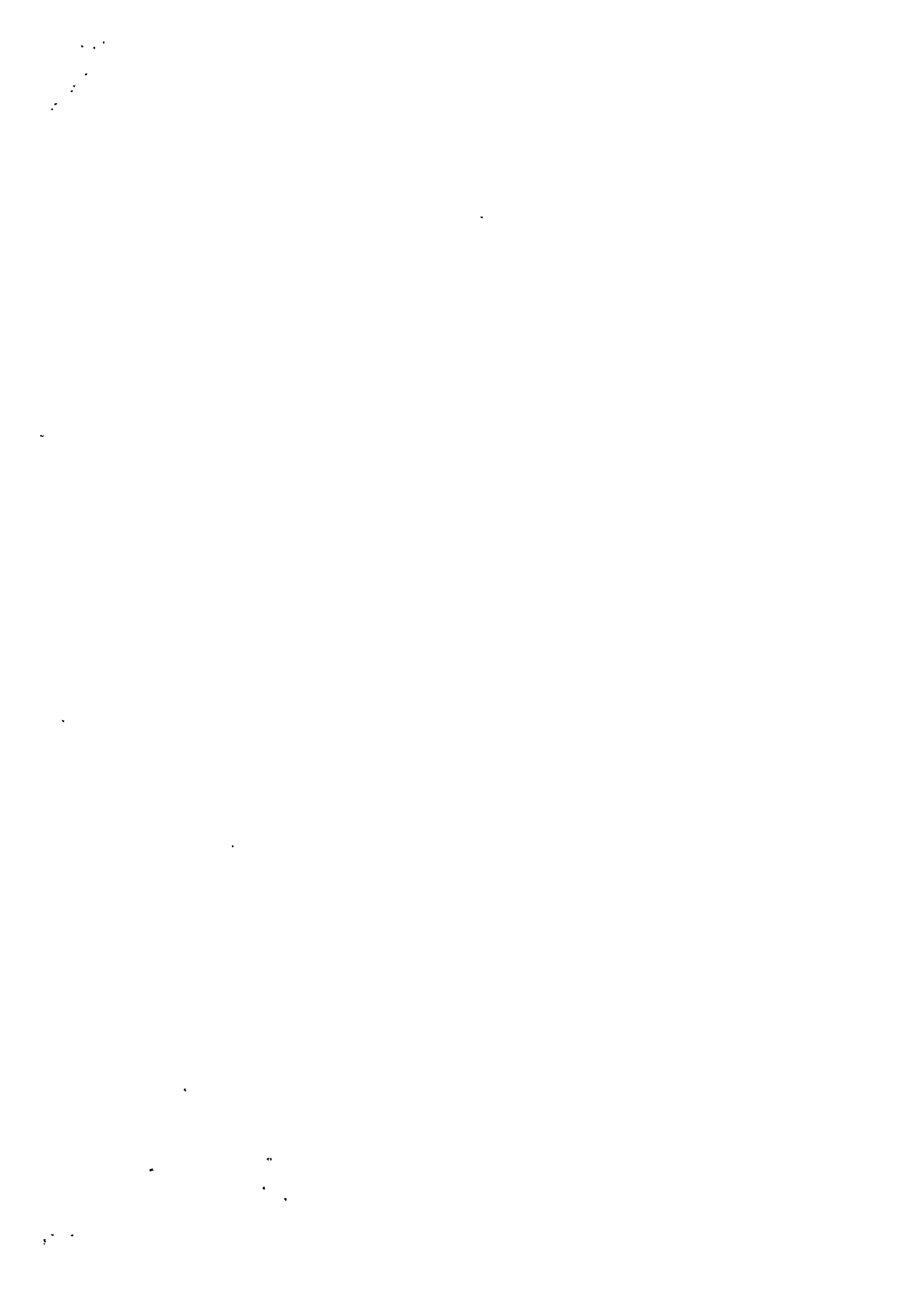
Introduction:

The field work for the Tohellinga area took place from the 11th to the 15th of July 1994. Test pits were excavated to discover the nature and numbers of finds and to establish the depth and nature of the sediments (see Appendix 1).

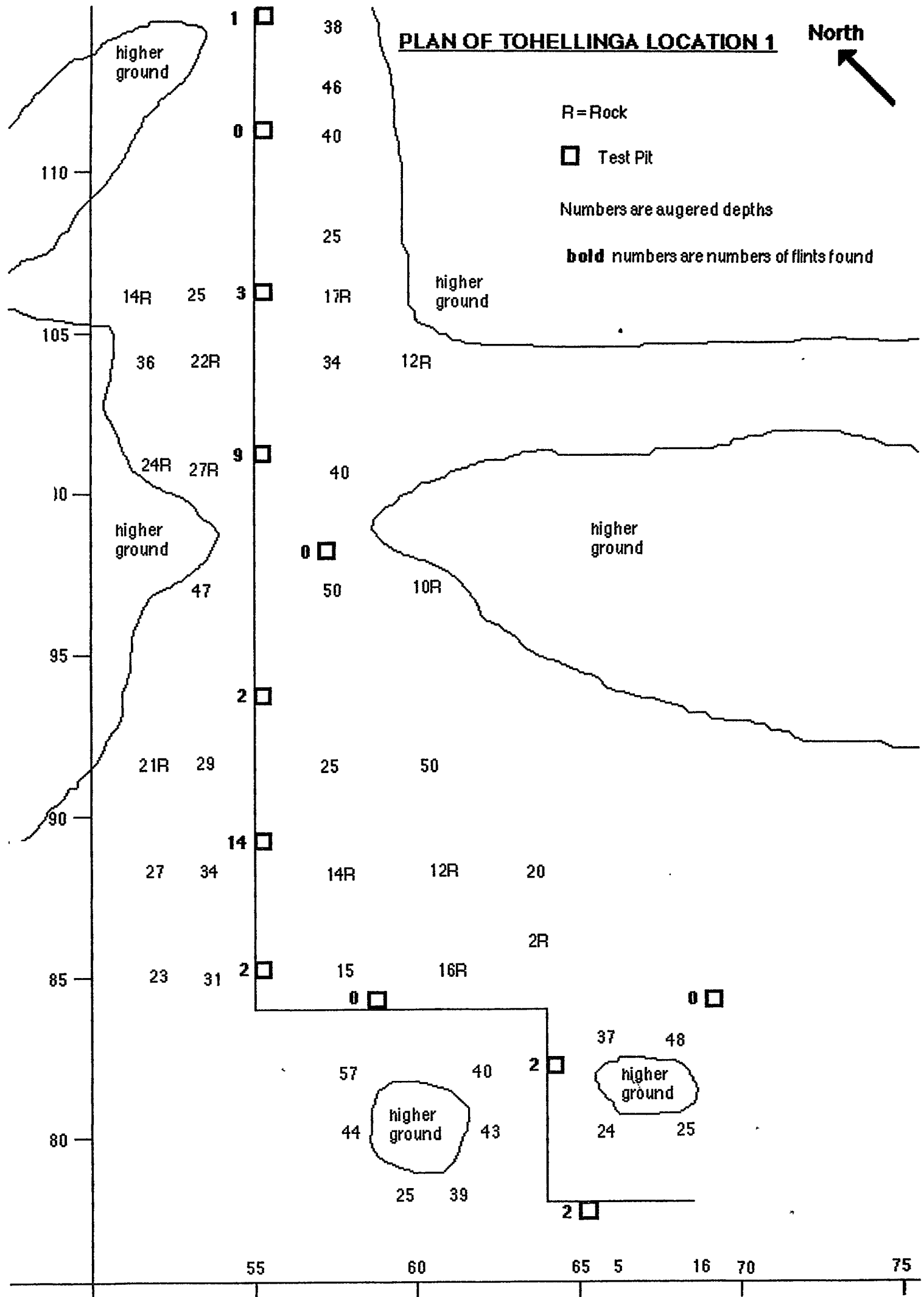
LOCATION 1

Survey:

A base line was established along so that the different areas of Location 1 could be linked (see plan). The initial question was to establish whether there was a continuation of finds or whether or not they were localized. The line of test pit along 55x revealed two sedimentological areas. To the north beneath the organic layer, leached grey layer and sand deposits, there was a layer of light brown silty material that was consolidated. No finds were found in this deposit and should be considered sterile. Generally most artifacts came from the interface between the grey leached layer and the sand. The profiles of the test pits to the north (55x 116y sv, 55x 111y sv, 55x 106y sv, Fig.1) have this silty layer but it was not present to the south in test pits (55x 101y sv, 55x 94y sv, 55x 89y sv, 55x 85y sv, Fig 2).



PLAN OF TOHELLINGA LOCATION 1



1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The text notes that without reliable records, it would be difficult to track the flow of funds and identify any irregularities.

2. The second part of the document focuses on the role of internal controls in ensuring the accuracy and reliability of financial information. It describes how internal controls are designed to prevent errors and detect any unauthorized transactions. The text highlights that a strong internal control system is a key component of an organization's risk management strategy and is crucial for maintaining the trust of stakeholders.

3. The final part of the document discusses the importance of transparency and accountability in financial reporting. It stresses that organizations should provide clear and concise information about their financial performance and position. The text notes that transparency is essential for building confidence among investors, creditors, and other stakeholders, and it is a key factor in determining the overall value of the organization.

Figure 1

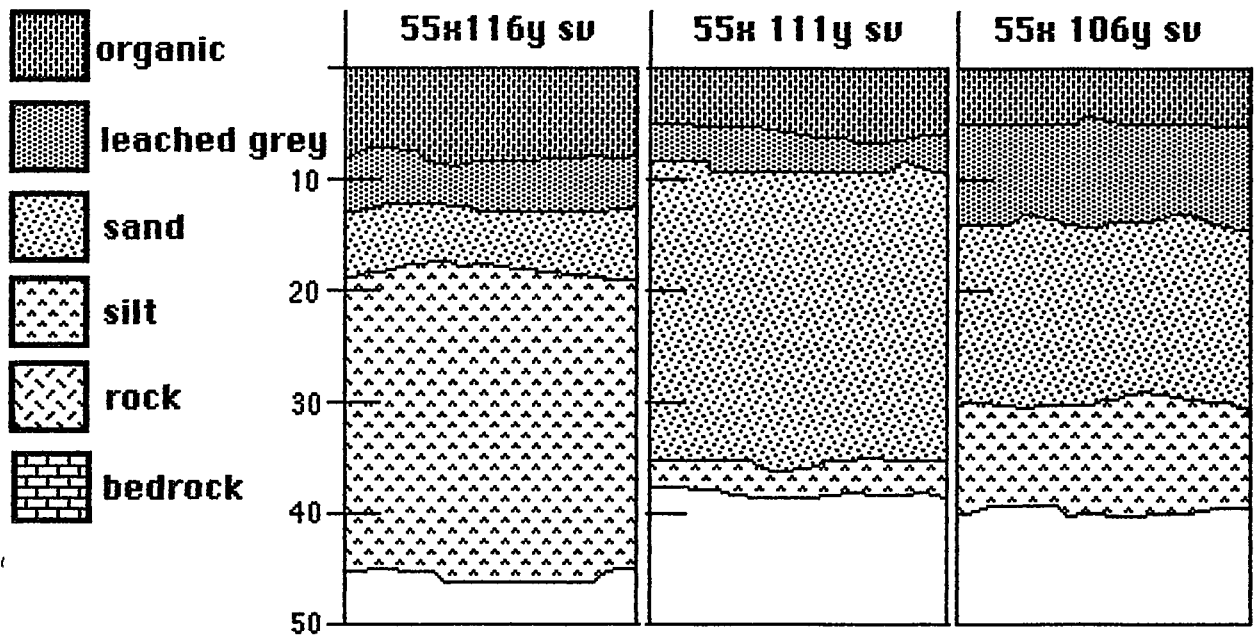
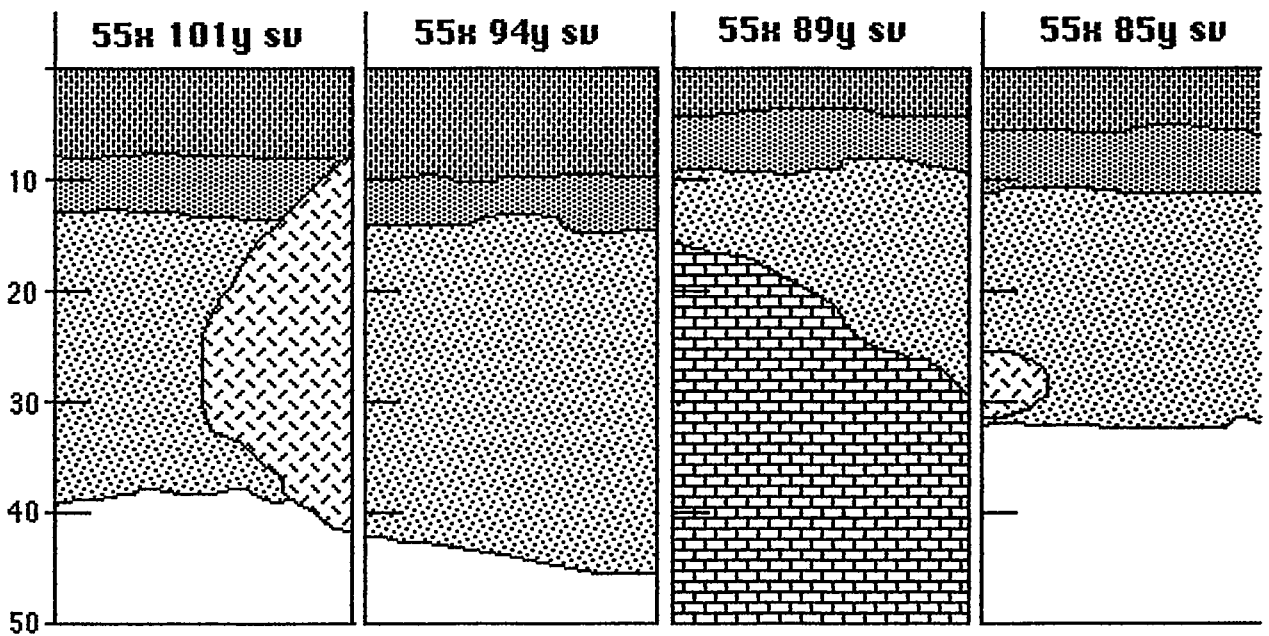


Figure 2



In the northern area only 3 pieces of flint were found. In the southern area 27 pieces of flint were discovered. So it would appear that the southern area without the silty layer is the central position of the site.

The area to the south east produced only 4 pieces of flint and would seem a peripheral area, as with the northern part.

Depth of deposits:

A number of points along the grid were tested using an auger to establish the depth of the deposits. These positions and depths are marked on the plan. Nowhere did the deposits reach a depth greater than 50cm. Around test pit 55x 89y sv, in which most flints were found (n=14) bedrock was found at as little as 14 cm. depth, as it was in the test pit. This would suggest that the find bearing deposits will not be very thick.

Geographical location:

The higher ground has been marked on the plan. This has not been mapped accurately but gives an impression of the likely size of the site as it is situated between rocky outcrops.

The Finds:

35 pieces of flint/chert were found, 23 of these were fragments. The remaining 12 consisted of 2 bladelets, 1 blade and 7 flakes, 2 of these flakes were less than 10 mm. and therefore were 'chips' or flake *splinter* .

There is a small amount of marginal retouch on 2 fragments and 1 flake. The retouched pieces are insufficiently diagnostic to type as specific tools or to draw any technological conclusions that would allow assignment to an industry or culture. However one of the bladelets is a plunging bladelet (*sidefragment*) with 2 parallel dorsal ridges most probably coming from a bladelet core. This would indicate a Mesolithic date.

Recommendations:

The procedure of excavation should centre on the areas with the greatest numbers of finds. The areas around test pits 55x 101y sv, and 55x 89y sv should be opened initially, with a view to joining the two areas depending on results. This conjoined area would appear to represent the centre of the site. The finds of a few pieces in the test pits some distance from this area perhaps represents displacement of material from the central area.

LOCATION 2

Survey:

A base line running north-south was established. Only 2 test pits were excavated because of the small size of the area (see plan). The sections of these pits are illustrated in Appendix 1. Only 2 pieces of flint/chert were found in each pit.

Depth of deposits:

In addition to the test pits a number of augured soundings were made (see plan). Nowhere did the depth of deposits reach beyond 50cm. The sediments consisted entirely of an organic layer, the leached layer (E horizon) and sand.

Geographical location:

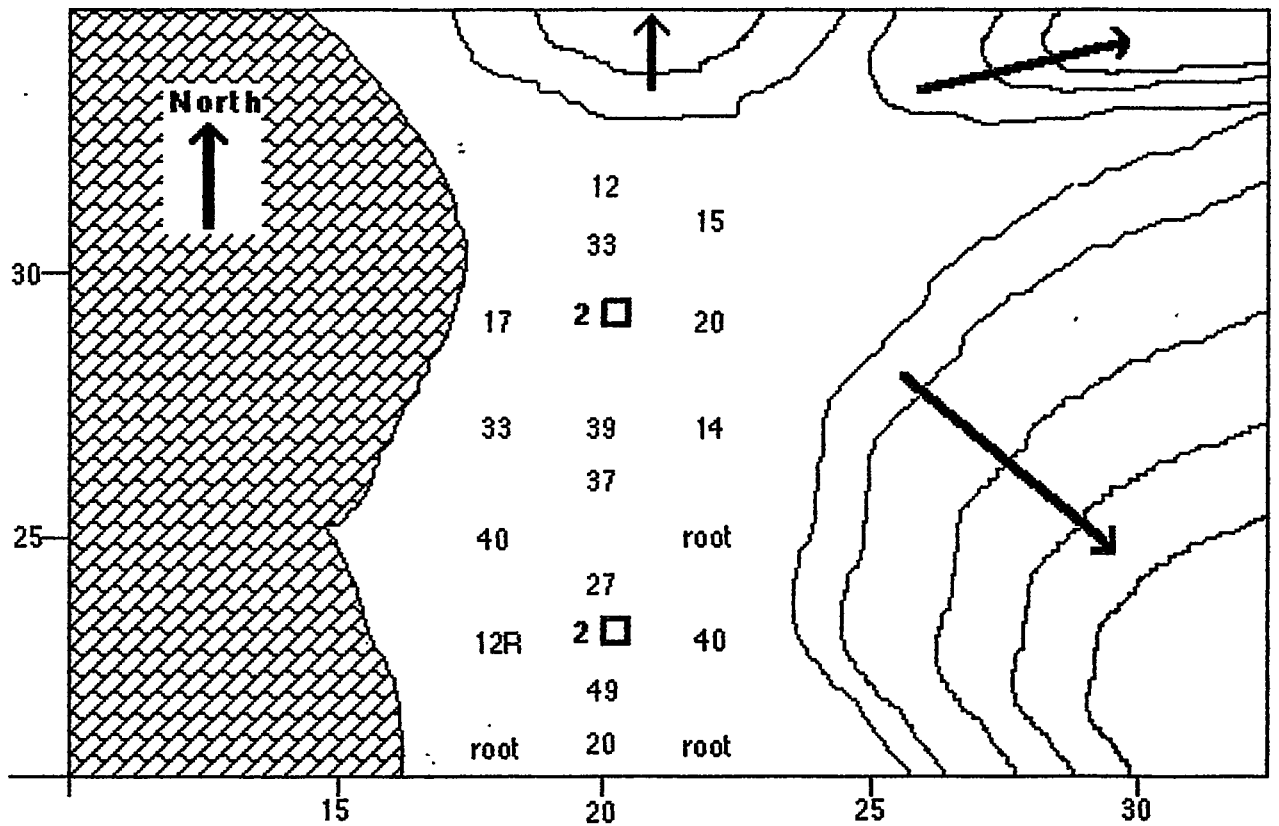
The area is very small (a maximum of 12 x 8 metres) with steep slopes dropping away from the site on three sides the west side being limited by a rock wall. The site has been truncated to the south by the construction of the E6 road. Given the present geographical location the site perhaps represents a peripheral area of what might have been a larger site.

The Finds:

The finds consisted of 3 flakes and a flake fragment. No retouched pieces were found, and so no typological or technological conclusions can be made.

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PLAN OF TOHELLINGA LOCATION2



Recommendations:

A small test area could be opened to discover if a greater concentration of finds could be made. However because of the truncation of the area by the E6 the site is unlikely to produce much material or represent undisturbed areas.

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APPENDIX 1

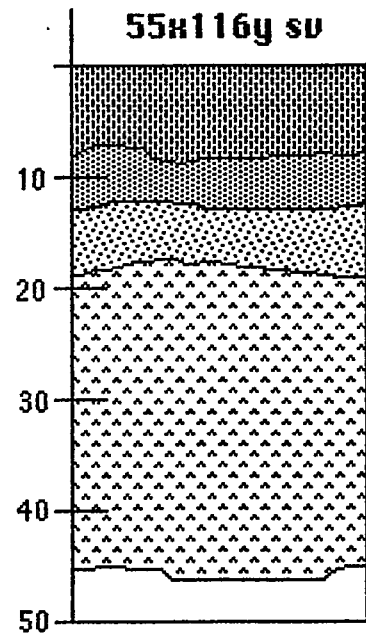
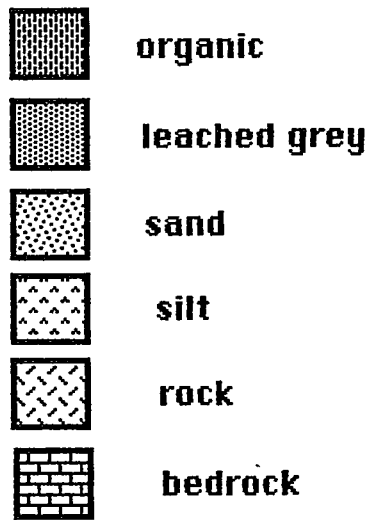
TOHELLINGA LOCATION 1

TEST PITS: finds and sections

55x 116y sv

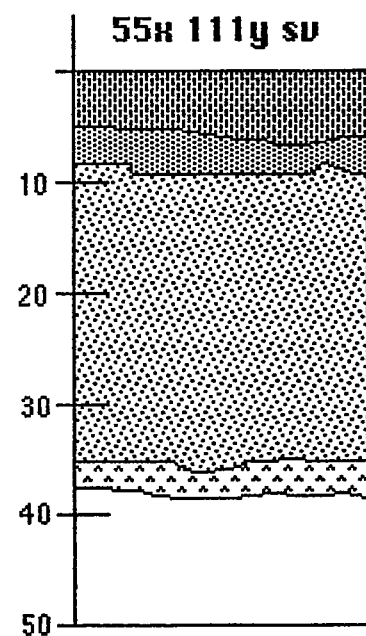
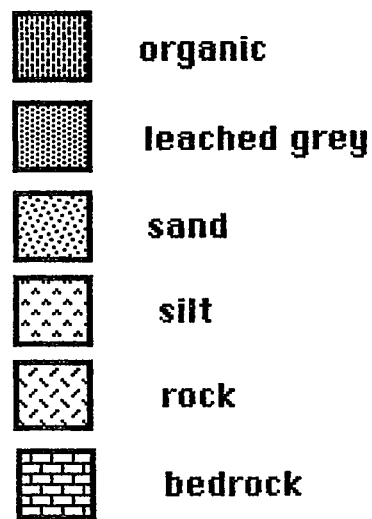
1 piece of flint

#100 unretouched distal fragment with cortex



55x 111y sv

no finds



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection practices and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure throughout its lifecycle.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that the data management processes remain effective and aligned with the organization's goals.

55x 106y sv

3 pieces of flint

#101 unretouched distal fragment with cortex

#102 unretouched flake

#103 unretouched distal fragment



organic



leached grey



sand



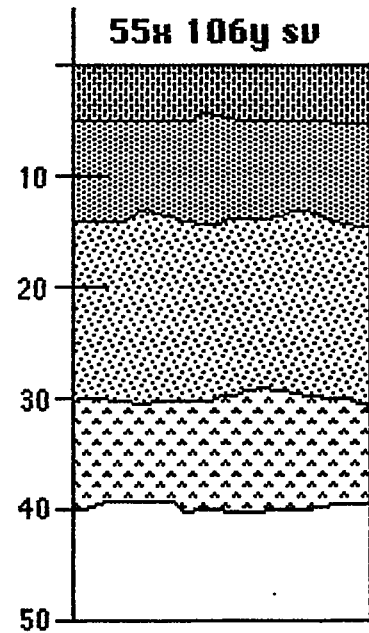
silt



rock



bedrock



55x 101y sv

9 pieces of flint

#105 retouched flake

#106 unretouched medial fragment

#107 unretouched distal fragment

#108 (chert) unretouched flake

#109 unretouched proximal fragment

#110 unretouched medial fragment with cortex

#111 unretouched fragment

#112 (chert) unretouched fragment with cortex

#113 unretouched fragment- burnt



organic



leached grey



sand



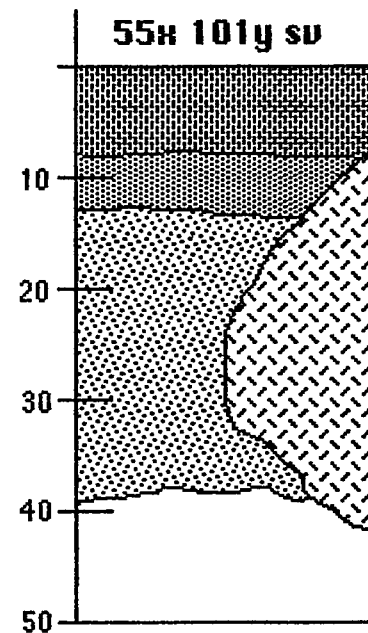
silt



rock



bedrock



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55x 94y sv

2 pieces of flint

#114 (chert) unretouched bladelet

#115 retouched distal fragment



organic



leached grey



sand



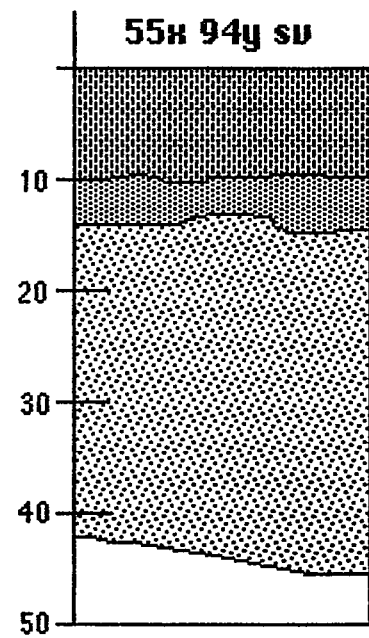
silt



rock



bedrock



Handwritten text, possibly a list or notes, located in the upper left quadrant of the page. The text is extremely faint and illegible.

Handwritten text, possibly a list or notes, located in the lower left quadrant of the page. The text is extremely faint and illegible.

55x 89y sv

14 pieces of flint

- #116 (chert) retouched fragment
- #117 (chert) unretouched distal fragment
- #118 (chert) unretouched flake
- #119 (chert) unretouched flake
- #120 (chert) unretouched fragment
- #121 (chert) unretouched fragment
- #122 (chert) unretouched distal fragment
- #123 (chert) unretouched bladelet
- #124 unretouched flake
- #125 unretouched fragment
- #126 (chert) unretouched fragment
- #127 (chert) unretouched distal fragment
- #128 unretouched fragment
- #129 (chert) unretouched flake



organic



leached grey



sand



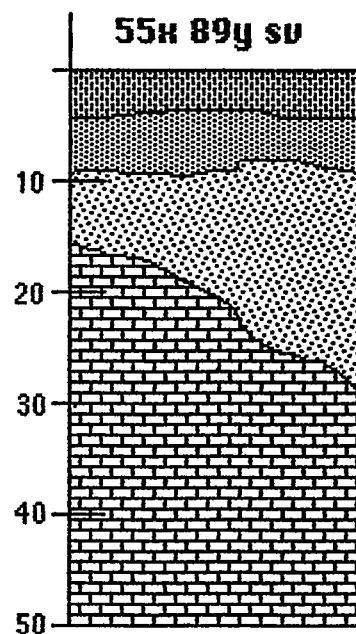
silt



rock



bedrock



12.1.1

1. The first part of the document is a list of names and addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: John Smith, Jane Doe, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a list of names and addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: Alice Brown, David Green, and Emily White. The addresses are: 101 Pine St, 202 Maple St, and 303 Birch St.

3. The third part of the document is a list of names and addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: Frank Black, Grace King, and Henry Lee. The addresses are: 404 Cedar St, 505 Spruce St, and 606 Fir St.

4. The fourth part of the document is a list of names and addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: Irene Hill, James Young, and Karen Adams. The addresses are: 707 Ash St, 808 Sycamore St, and 909 Walnut St.

55x 85y sv

2 pieces of flint

#130 unretouched fragment

#131 (chert) unretouched proximal fragment



organic



leached grey



sand



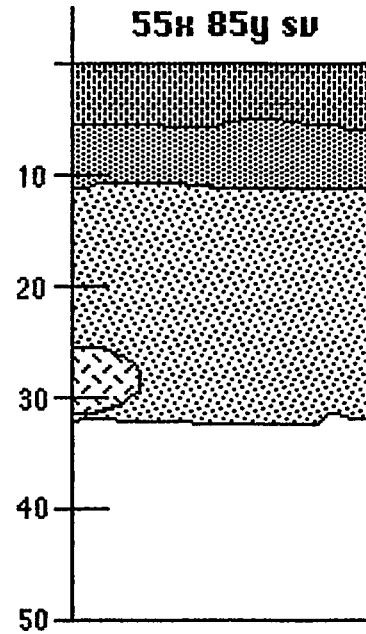
silt



rock



bedrock



64x 82y sv

2 pieces of flint

#132 (chert) unretouched flake

#133 unretouched bladelet - plunging fracture from bladelet core- patinated



organic



leached grey



sand



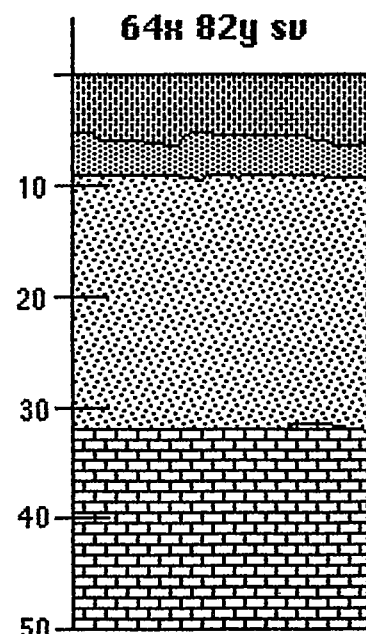
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65x 77y nv

2 pieces of flint

#134 unretouched flake

#135 unretouched distal fragment



organic



leached grey



sand



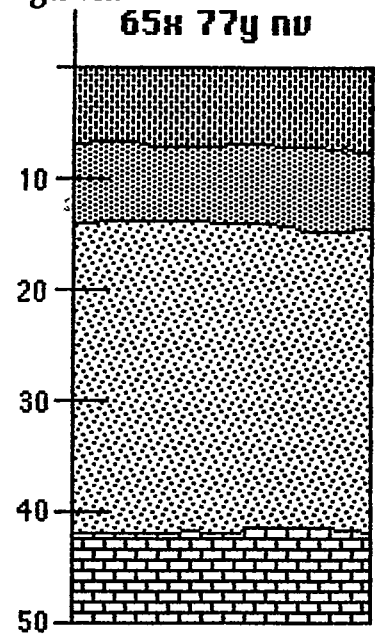
silt



rock



bedrock



57x 98y sv

no finds



organic



leached grey



sand



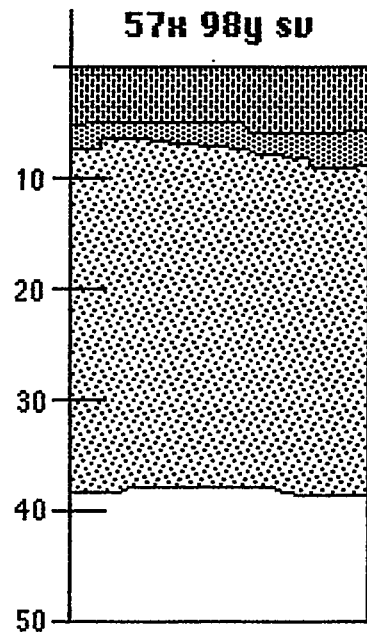
silt

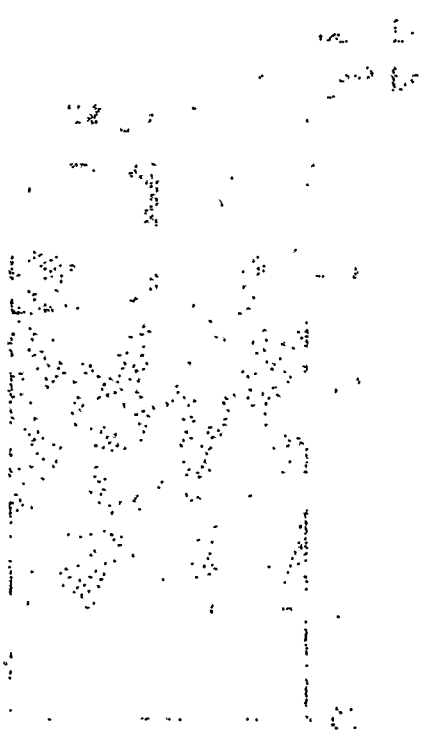
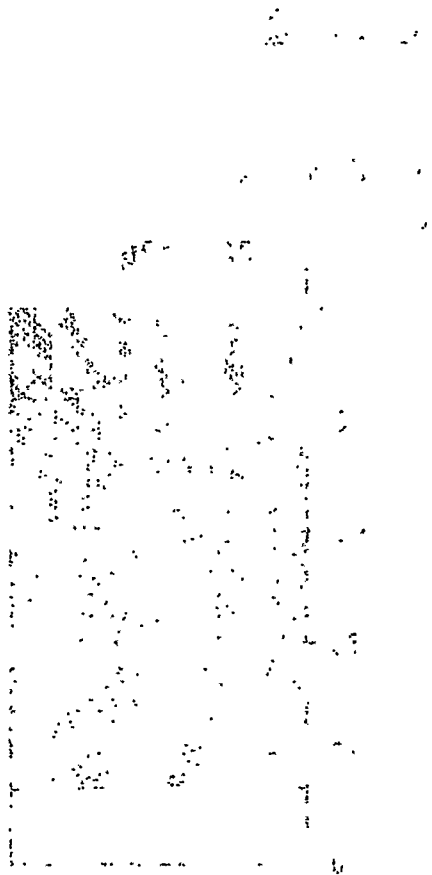


rock



bedrock





TOHELLINGA LOCATION 2

20x 22y sv

2 pieces of flint

#100 unretouched flake with cortex

#101 unretouched flake



organic



leached grey



sand



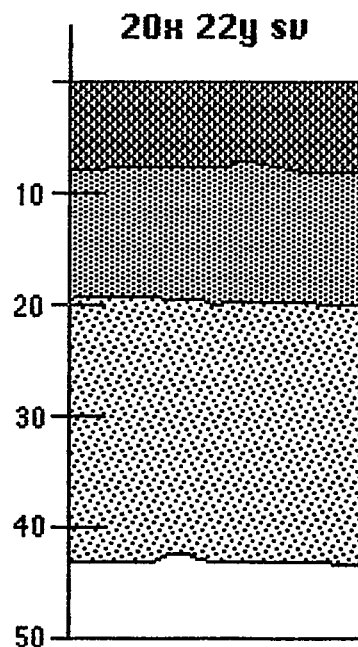
silt



rock



bedrock



20x 28y sv

2 pieces of flint

#102 (chert) unretouched flake

#103 (chert) unretouched fragment



organic



leached grey



sand



silt



rock



bedrock

