

Archaeological Salvage Excavation
of the GhGk-63 site, 1990,
Kuujuarapik, Nunavik

Presented to:

Municipality of Kuujuarapik

By:

Avataq Cultural Institute

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Acknowledgements

We wish to express our gratitude to Sappa Fleming, Mayor of the Municipality of Kuujjuarapik, and Lucassie Cookie, President of the Sakkuq Landholding Corporation, for their interest in and support of the GhGk-63 archaeological salvage project. Our thanks as well to Pierre Roussel, Secretary-Treasurer of the municipality, who allowed the field crew use of a municipal truck for part of the project, and to Peter Papialuk, Assistant to the Secretary-Treasurer, and Anthony Ittoshat, Municipal Councillor, for daily transportation of the crew between the village and the site. Special thanks are due Francis Marcoux who, engaged by the Cree Regional Authority as assistant supervisor for a joint CRA-Avataq archaeological project, volunteered his services for supplementary excavations in the site during evenings and weekends.

The project was funded by the ministère des Affaires culturelles du Québec allocations to Avataq for archaeology and by a training grant from Ilivvik Inc.

The Avataq Cultural Institute gratefully acknowledges the contributions of the above individuals and agencies to the GhGk-63 archaeological salvage project.

1.0 Introduction

The present report concerns the archaeological salvage project conducted in 1990 at the GhGk-63 site, a partially disturbed Dorset site located in the Municipality of Kuujjuarapik, Nunavik. This project was organized and implemented by the Avataq Cultural Institute on the request of the Municipal Council of Kuujjuarapik. It was oriented, specifically, toward the rescue of archaeological resources threatened by the planned exploitation of the site as a gravel pit for the construction of new houses in the village.

Field activities were carried out during the 5-day period between 15 and 19 August, under the direction of Daniel Gendron, Assistant Director of the Avataq Archaeology Department. The field crew was composed of Caroline Weetaluktuk and Lizzie Fleming, both from Kuujjuarapik. Tommy Weetaluktuk, archaeology student from Inukjuak, assisted in the mapping and testing of the site on 15 August.

2.0 The GhGk-63 site

2.1 Location and General Description

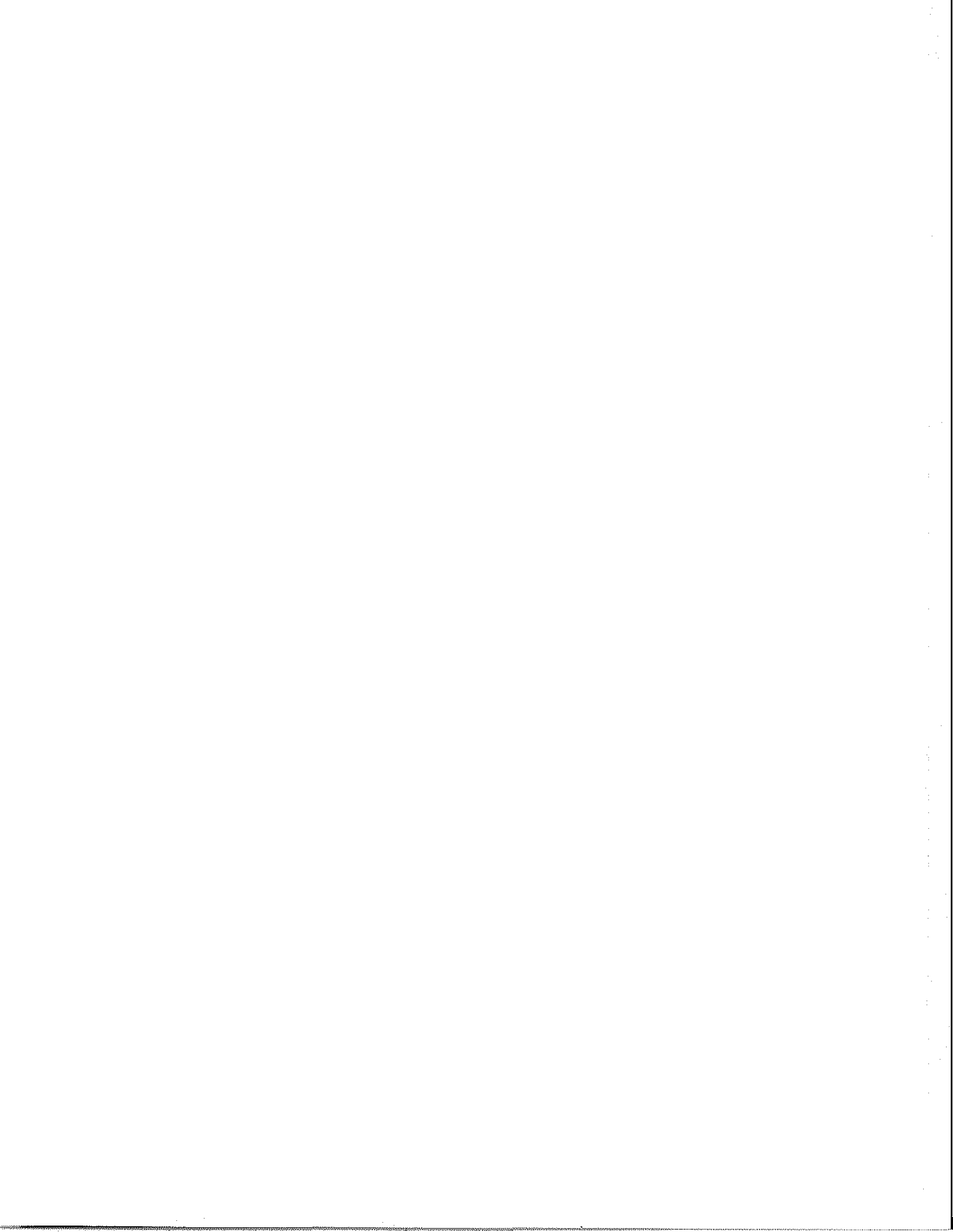
The GhGk-63 site is located near the mouth of the Great Whale River, southeastern Hudson Bay, at (Figure 1.) It is situated on the upper part of the southeastern slope of a low bedrock hill, approximately 900 m north of the village of Kuujjuarapik and about 1 km east of the coast. The site varies in altitude from 26 to 32 m.a.s.l.

The site covers approximately 4,000 m² and encompasses 2 distinct geomorphological formations. The western section, recorded during the 1986 survey of new solid waste disposal facilities proposed for the village (Avataq, 1987) consists of a terraced boulder field (c.f., Appendix 3). The southern portion of the boulder field was destroyed earlier that year by gravel extraction for local construction work. The western section of GhGk-63 was identified in July, 1990, during an emergency evaluation of the site requested by the municipality. This section of the site is composed of discontinuous humus and sandy beach deposits directly overlying bedrock.

The site is delimited to the north and east by exposed bedrock and, to the south and west, by marine terrace formations, interrupted by the gravel pit. The zone disturbed by gravel extraction work, including surface disturbance along the southern edge of the gravel pit, covers approximately 900m², equivalent to roughly 22% of the site area. Sparse black spruce mixed with willows and moss-lichen growth predominate in the western section of the site. The southern and western limits of the site are bordered by dense stands of spruce and willow.

2.2 Cultural Features

Cultural features registered in the GhGk-63 site comprise 3 semi-subterranean dwellings, 7 tent rings and 4 exterior features of various function. The semi-subterranean dwellings and 1 of the tent rings (i.e., Structure 1) are located in the boulder field and were intensively tested in 1986, with negative results. A second tent ring occurs on the edge of the boulder field and the 5 others in the western section of the site.



The semi-subterranean dwellings are defined by relatively shallow depressions ranging from 2.70 to 2.80 m in length and from 2.20 to 2.30 m in width. The tent rings are less uniform in dimensions, varying from 2.40 m in diameter to 3.00 x 3.50 m. Most are oval or circular in form. A rectangular contour is suggested for Structure 2, which is composed of 2 intersecting, straight alignments of rocks. Structure 7 is partially overlapped by Structure 6 and contains the remnants of a flagstone mid-passage, oriented north-south and measuring 0.75 m in maximum width. Structure 1 is also bisected by a mid-passage of similar composition and orientation.

The exterior features include 2 caches (i.e., Features I and II), the first of which was used for food storage. The second represents a dismantled lithic cache consisting of an accumulation of preforms and cores encircled by large rocks. Features III and IV comprise rock concentrations situated in proximity to the habitation cluster in the western section of the site. Although the function of these features remains undetermined, both are provisionally interpreted as representing caches.

Table 1. Summary of cultural features identified in the GhGk-63 site.

A. Habitation Structures

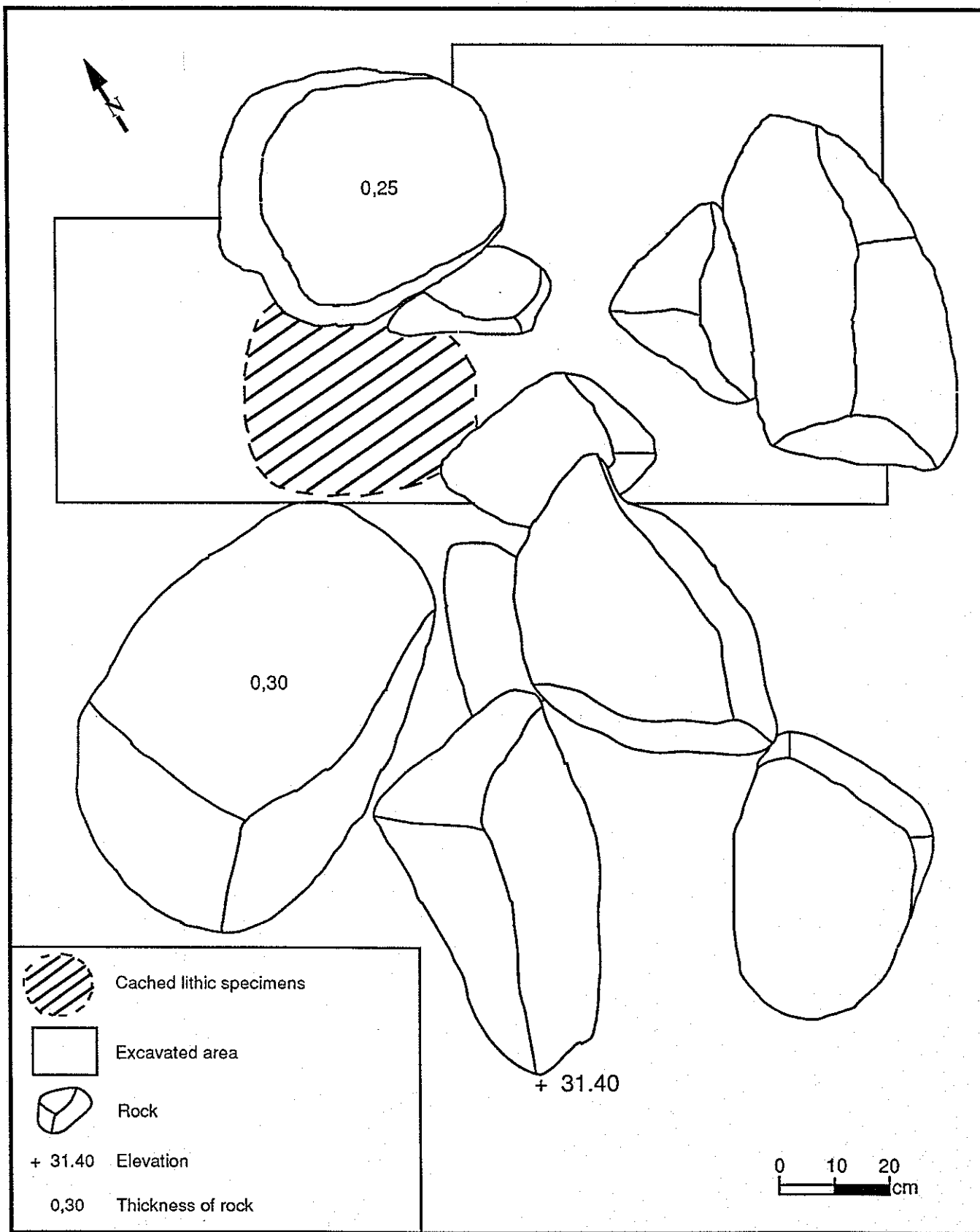
Number	Type	Form	Dimensions (m)	Remarks
1	tent ring	oval	3.0 x 3.5	contains a mid-passage
2	tent ring	rectangular	2.1 x 2.5	
3	semi-subterranean	sub-rectangular	2.2 x 2.8 D: 0.30	
4	semi-subterranean	sub-rectangular	2.2 x 2.7 D: 0.30	
5	semi-subterranean	sub-rectangular	2.3 x 2.7 D: 0.50	possible interior hearth
6	tent ring	oval	2.4 x 2.8	
7	tent ring	circular	2.8 dia.	contains a mid-passage
8	tent ring	oval	3.4 x 2.6	
9	tent ring	oval	3.0 x 2.0	
10	tent ring	circular	2.40 dia.	

B. Exterior Features

Number	Type	Dimensions (m)	Remarks
I	food cache	2.0 x 1.2	
II	lithic cache	2.0 x 1.8	contains a large number of preforms and cores
III	rock concentration	1.6 dia.	possible cache
IV	rock concentration	1.6 x 1.25	possible cache

m = metre
 dia. = diameter
 D = depth

Figure 2 . Plan of Feature II, the lithic cache.



3.0 Field Techniques

The site was mapped and a metric grid system encompassing the whole of the locality was installed using a Sokkisha theodolite and a 60-metre surveyor's chain. The north-south bands in the grid were designated by alphabetical letters while those oriented east-west were sequentially numbered. The square metres, which formed the basic units for excavation and data registration, were identified, accordingly, by an alpha-numerical code (i.e., BR 57). The value of the letters and numbers increases toward the north and east.

Site gridding completed, surface-collecting and test-pitting were then carried out in the disturbed zone along the western periphery of the gravel pit. The western section of the site was also surface-collected. These activities were followed by controlled excavations, conducted in the habitation cluster in the same area. As 1986 test-pitting in the semi-subterranean dwellings and the tent ring located in the boulder field proved negative, no excavations were deemed necessary in the northern part of the site, the lithic cache excluded.

Only general provenience was noted for lithic specimens collected in the disturbed zone. Waste flakes recovered from the excavated square metres were collectively registered according to quadrant (i.e., 50 x 50cm units) and stratigraphic level. Alternately, north and east co-ordinates and stratigraphic level were recorded for each identified tool and tool fragment, all of which were individually collected.

The location of all lithic specimens and other occupational data occurring in the excavation units was plotted on millimetric graph paper. Stratigraphic profiles were also drawn on graph paper, at a scale of 1:10. The site in general, the habitation structures, features and excavations as well as other elements of specific interest were photographed in colour and black and white prints and in slides.

4.0 Project Results

In all, 44,50m² were excavated in the GhGk-63 site (c.f., Appendix 3). These excavations were centred primarily on Structure 6 and 7 (22 m²), Structure 8 (12.75 m²) and, to a lesser degree, on Features III (4 m²) and IV (2 m²). Eleven test-pits, each measuring 50 x 50 cm, were excavated in the disturbed zone and approximately 1m² in Feature II, the lithic cache.

4.1 Stratigraphy

Significant portions of the interiors of Structures 6 and 8 consisted of exposed bedrock, due to natural erosion. However, where soil deposits had developed, a basically similar sequence of stratigraphic components was observed in both structures as well as in Structure 7.

As illustrated in Appendix 4, the upper components of the Structure 6 stratigraphy are composed of a discontinuous mantle of vegetation, roughly 2 cm in thickness, and a thin layer of sandy humus (i.e., Level II), which forms the surface in the northeastern part of the structure. Level II varies in thickness from 1 to 5cm. It overlies a layer of fine, yellowish sand (i.e., Level III), exceeding 20 cm in maximum thickness. A thin horizon of sandy humus, designated Level IV, separates Level III from the bedrock in the southeastern part of the structure. This horizon averages 2 to 3 cm in thickness and contains traces of carbonized organic matter.

The Structure 8 stratigraphy consists of a vegetation mat underlain by sandy humus. The thickness of vegetation in the structures varies from 2 to 5 cm while that of the Level II humus ranges from 2 to about 12 cm. Although not illustrated in the profile reproduced in Appendix 4, Level II is discontinuous and is underlain, occasionally, by thin lenses of fine sand, particularly in the centre of the tent ring.

With several exceptions, all of the rocks associated with the tent rings occur in Levels II and III.

4.2 Lithic Specimens

Salvage activities carried out in the site yielded a total of 4,514 lithic specimens (Table 2). Of this total, 3,945 lithics were recovered from excavations in the habitation structures and 393 from surface-collecting and test-pitting in the disturbed zone. The overwhelming majority of the excavated specimens, the greatest proportion of which was retrieved from Structure 6, were associated stratigraphically with Levels II and III. The Feature II lithic cache and the Feature III rock concentration produced 119 and 14 specimens, respectively. The remaining 43 lithics were collected from surface concentration 1.

The collection consists of 322 tools and tool fragments, 4,190 waste flakes and 2 unworked nodules. The tool assemblage is functionally diversified and includes both chipped and polished varieties of points and knives, endscrapers, a large number of microblades and several microblade cores, burins, burin-like tools and numerous preforms and flakes cores. Most of the preforms and flake cores were collected from the Feature II lithic cache. Other implements recovered include burin spalls, tip-flute spalls, an abrader, a hammerstone, biface fragments, polished fragments and retouched and used flakes.

The waste flakes comprising the debitage assemblage are generally of small size, suggesting relationships with the final rather than primary stages of tool manufacturing. The unworked nodules are interpreted as unused cores. One is a quartz crystal while the other is in metabasalt.

Chert is the predominate raw material, representing 91% of the collection, followed by quartzite (4.79%), slate (2.11%) and quartz crystal (0.95%). Specimens in hyalin, milky quartz and metabasalt occur as a fraction of a percentage. A single specimen is in soapstone.

4.3 Radiocarbon-dating

Two samples of charcoal sufficient for radiocarbon-dating were recovered from BN-BP 57, in Structure 6. One of these samples was submitted for processing to the Geological Sciences Radiocarbon Lab of Brock University, St Catherines, Ontario, and provided an uncorrected date of 2050 ± 100 B.P. (BGS 1476), or 50 B.C. years. An identical age was obtained from Delta ^{13}C ratio correction of the assay.

Table 2. Summary of the Lithic Collection

A. Lithic Specimens According to Class and Raw Material

Class	Raw Material								Total
	Chert	Quartzite	Quartz Crystal	Hyalin	Milky Quartz	Slate	Metabasalt	Soapstone	
Chipped point	30	1	-	1	-	-	-	-	32
Polished point	-	-	-	-	-	1	-	-	1
Chipped knife	2	-	1	-	-	1	1	-	5
Polished knife	-	-	-	-	-	10	-	-	10
Endscraper	14	-	2	-	-	-	-	-	16
Burin	-	-	1	1	-	-	-	-	2
Burin-like tool	2	-	-	-	-	-	-	-	2
Burin spall	3	-	-	-	-	-	-	-	3
Polished burin spall	1	-	-	-	-	-	-	-	1
Tip-flute spall	21	-	-	-	-	-	-	-	21
Flake core	25	-	-	-	-	-	-	-	25
Microblade core	5	-	2	-	-	-	-	-	7
Microblade	80	-	21	-	-	-	-	-	101
Biface fragment	14	-	-	-	1	-	-	-	15
Polished fragment	3	-	-	-	-	29	1	1	34
Preform	13	-	-	-	-	-	-	-	13
Abrader	-	1	-	-	-	-	-	-	1
Hammerstone	-	-	-	-	-	-	1	-	1
Retouched flake	22	1	1	-	-	1	-	-	25
Used flake	5	-	-	-	-	1	1	-	7
Sub-total	240	3	28	2	1	43	4	1	322
Waste flakes	3865	213	14	21	7	53	17	-	4190
Unworked nodules	-	-	1	-	-	-	1	-	2
Total	4105	216	43	23	8	96	22	1	4 514

B. Lithic Specimens According to Provenience

Provenience	Tools	%	Flakes	%	Total	%
Structure 6	210	65.2	2 667	63.6	2 877	63.7
Structure 7	42	13.0	890	21.2	932	20.6
Structure 8	16	5.0	120	2.9	136	3.0
Feature II	24	7.6	95	2.3	119	2.6
Feature III	2	0.6	12	0.3	14	0.3
Concentration 1	2	0.6	41	1.0	43	0.9
Disturbed Zone	25	7.8	363	8.6	388	8.6
Test Pits	1	0.3	4	0.1	5	0.1
Total	322	100	4 192	100	4 514	100

5.0 Discussion

The results of the salvage activities undertaken in the GhGk-63 site tend to indicate that the locality was occupied sometime around the end of the last millenium B.C.- beginning of the first millenium A.D. by Late Palaeoeskimo groups of the Middle Dorset culture. Although varying in duration according to region, the Middle phase of this culture is generally considered to date to between 300 B.C.-A.D. 500 (Maxwell, 1985:168-169). A Middle Dorset affiliation for the site is suggested not only by the radiocarbon determination but by various technological traits usually associated with this phase. Such traits include tip-fluted projectile points, endscraper forms and the mid-passages in the 2 tent rings.

On the other hand, the chronological relationships of the Feature II lithic cache are unclear. Although occurring in high frequencies in the Dorset habitation components, the mottled black chert contained in the cache comprises more than 99% of the lithic collection recovered from 1990 salvage excavations in the nearby GhGk-4 site. This second site, located roughly 900 m southeast of GhGk-63, represents an Early Palaeoeskimo Pre-Dorset site dated to approximately 1400 B.C. (c.f., Avataq, 1991). Feature II, then, may possibly reflect use of the GhGk-63 site by Pre-Dorset groups during the latter half of the second millenium B.C. While the cultural affiliation of the cache remains to be determined, the predominance of the same variety of chert in both sites nonetheless indicates exploitation of a common lithic raw material source by Early and Late Palaeoeskimo populations in the region.

The limited amount of information available for the semi-subterranean dwellings prohibits interpretation of these habitations. However, the presence of these dwellings together with tent rings nevertheless suggests that GhGk-63 was occupied during both winter and non-winter months. Too, the distribution and dimensions of the tent rings suggest repeated occupation of the site during warm seasons by numerically small groups composed of 1 or, possibly, 2 nuclear families. Based on the functional differentiation of the lithic specimens, the major activities carried out at the site included hunting, butchering, hide preparation and implement manufacturing. The absence of faunal remains precludes any interpretation of subsistence orientations.

In sum, the data recovered from the GhGk-63 salvage project provided new information on Dorset settlement and technological adaptations in the Kuujjuarapik region and as such are of importance to a better understanding of Inuit culture-history in southeastern Hudson Bay. However, time limitations permitted only the partial salvage of

the western portion of the site, which continues to be threatened by future construction work and related activities. In view of these circumstances, it is therefore recommended that a second archaeological project be undertaken at the site during 1991. This project will centre on the completion of excavations begun in Structures 6, 7, and 8 and on the excavation of Structures 9 and 10. The conduct of the recommended project will complete the salvage of the site as currently understood and, additionally, provide data which, combined with those already obtained, will allow for the more comprehensive analysis of GhGk-63.

6.0 References Cited

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7.0 Photographs

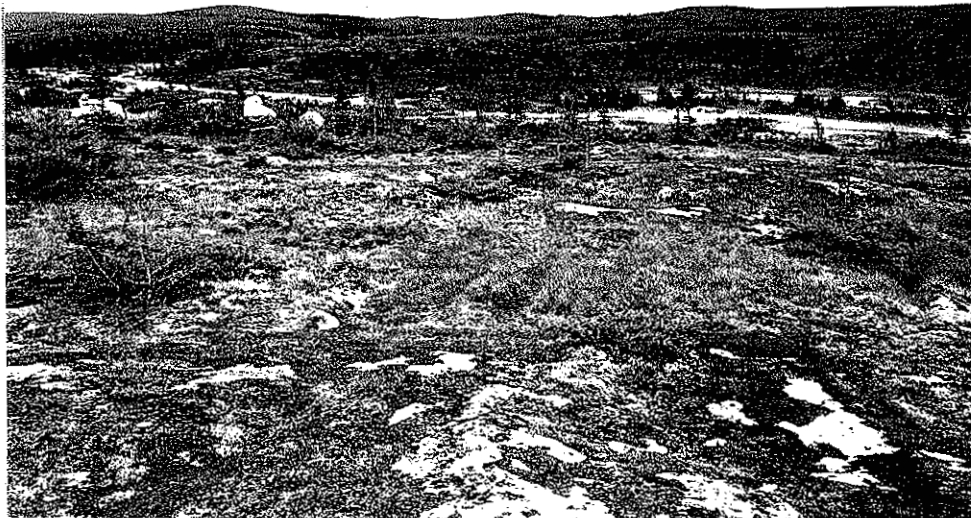


Photo 1. General view of the southern portion of the GhGk-63 site, toward the southeast.



Photo 2. General view of the gravel pit and the western portion of the site, toward the southwest



Photo 3. General view of the gravel pit, toward the east.



Photo 4. Surface-collecting along the western periphery of the gravel pit. Toward the northwest.

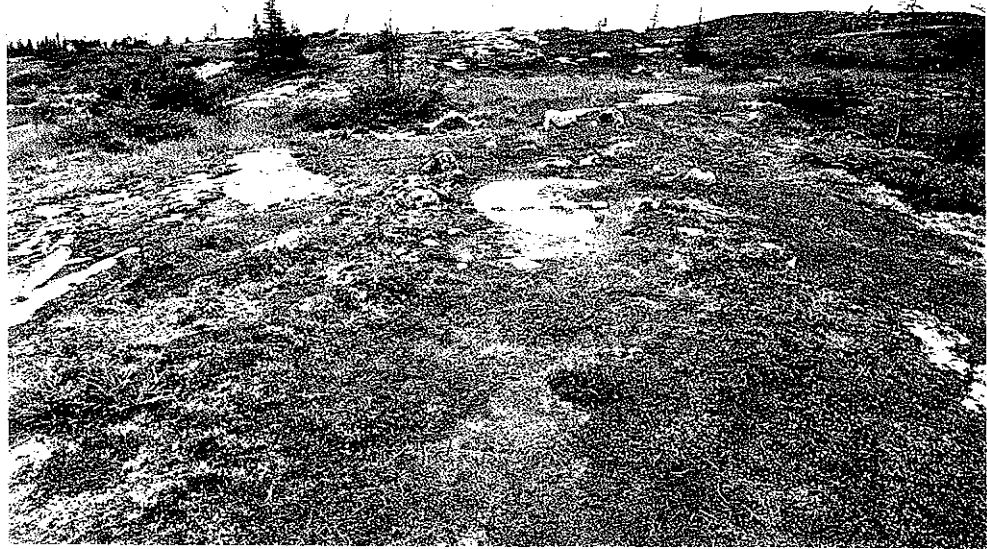


Photo 5. Structure 6 prior to excavation, toward the northwest.

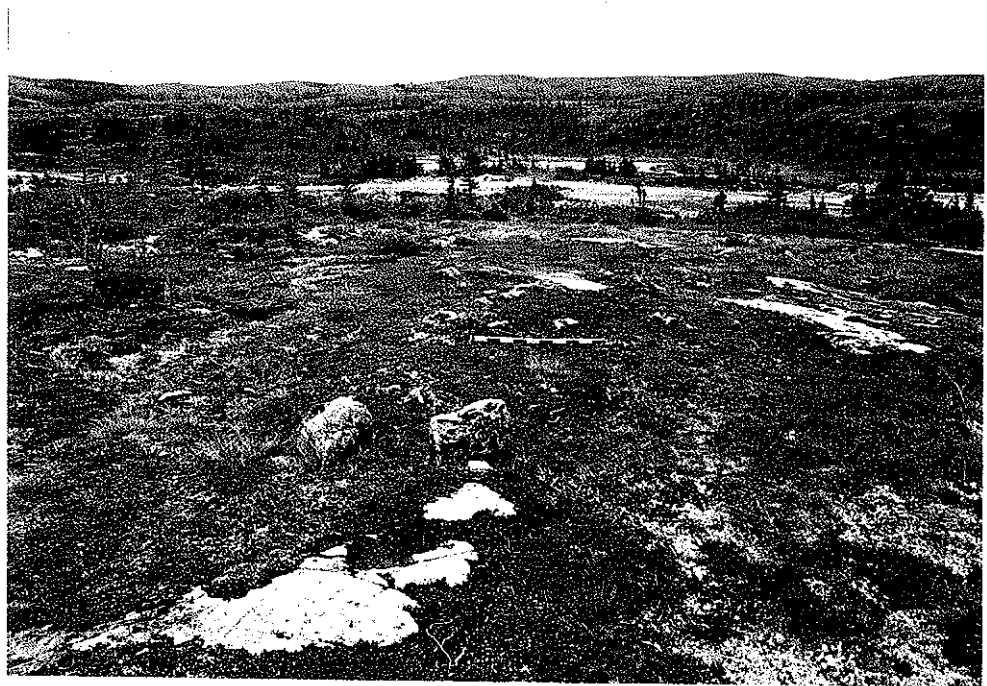


Photo 6. Structure 7 prior to excavation, toward the southeast.

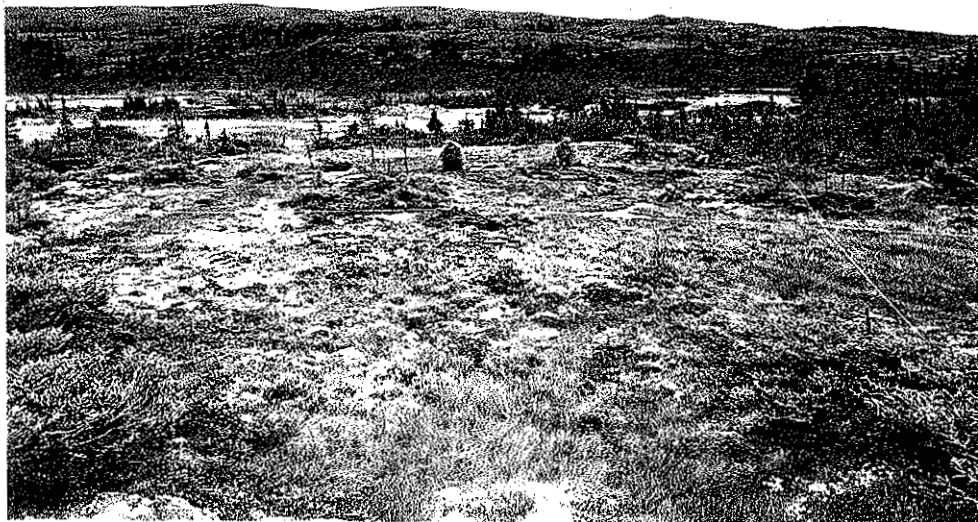


Photo 7. Excavation of Structures 6 and 7. Toward the southwest.



Photo 8. Structures 6 and 7 following excavation, toward the southeast. Note the mid-passage in the centre of the photo.

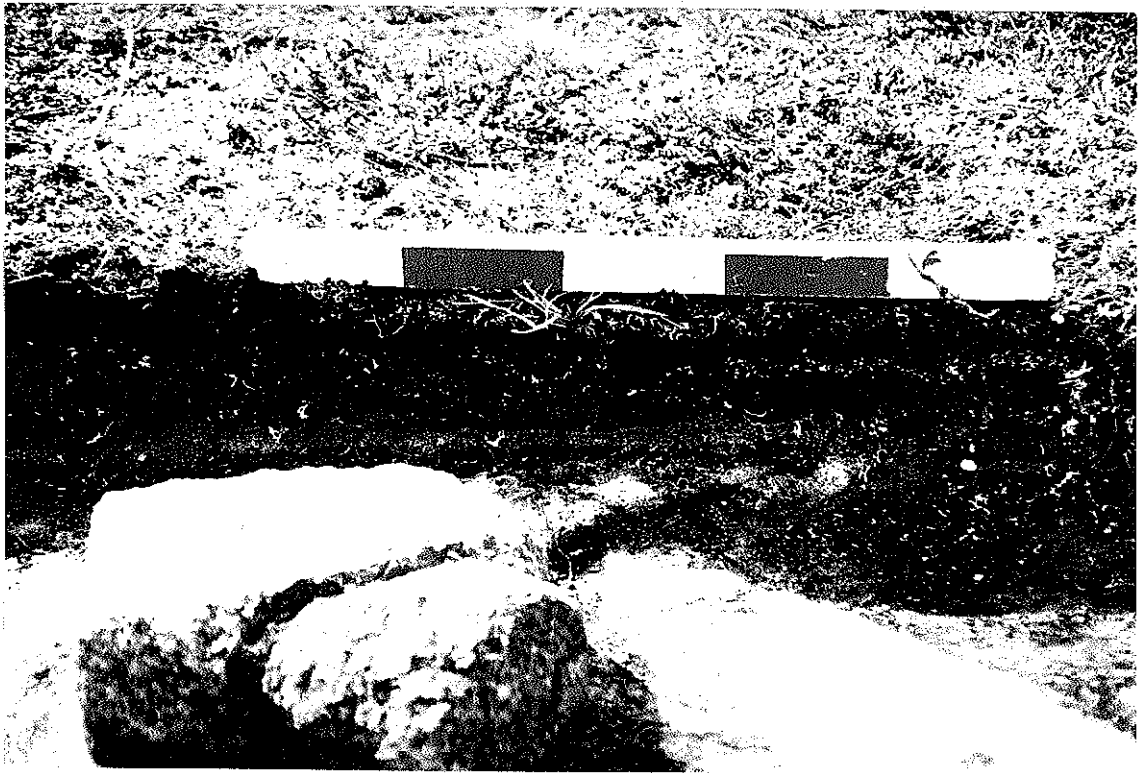


Photo 9. Structure 6 stratigraphy, BP 57, east profile.



Photo 10. Structures 8 prior to excavation, toward the east.

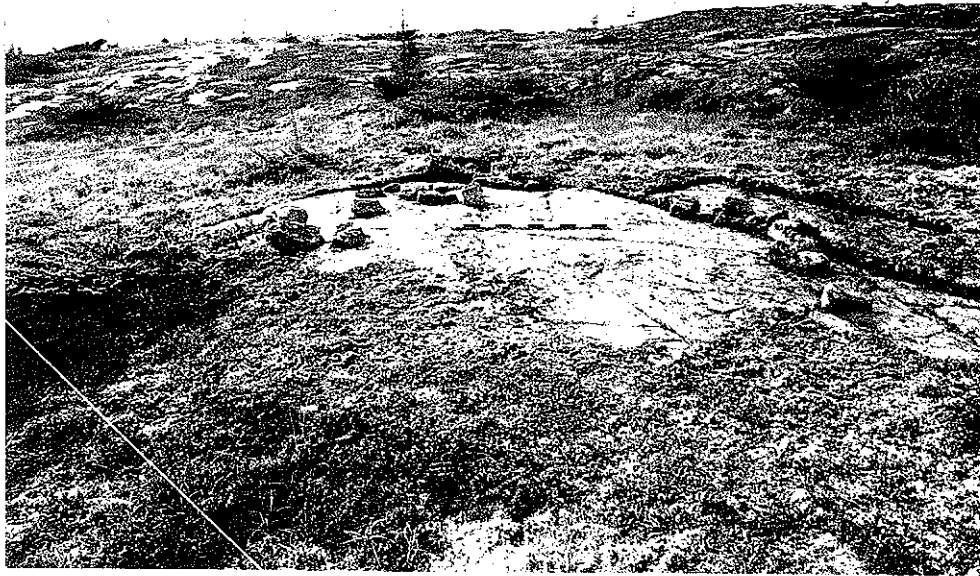


Photo 11. Structure 8 following excavation, toward the northwest.

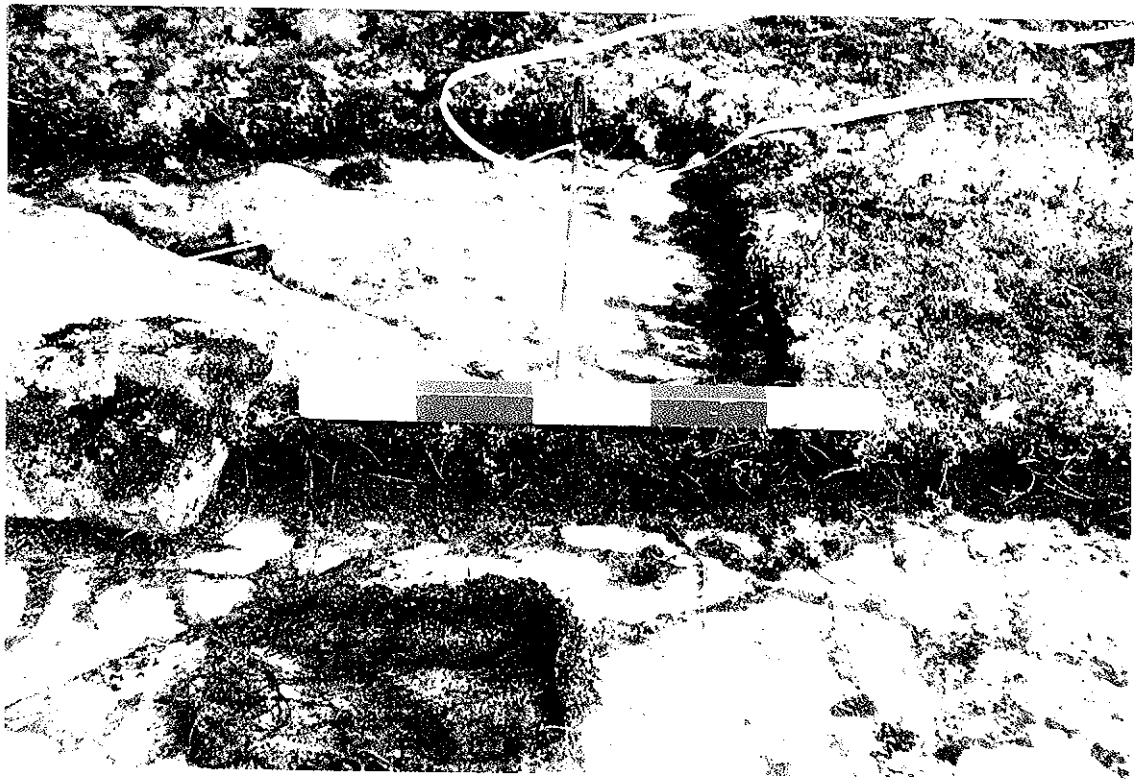


Photo 12. Structure 8 stratigraphy, CE 57, north profile



Photo 13. Feature II, a cache of chert preforms and bifaces, toward the southwest.



Photo 14. Feature III, a possible cache, prior to excavation. Toward the north.

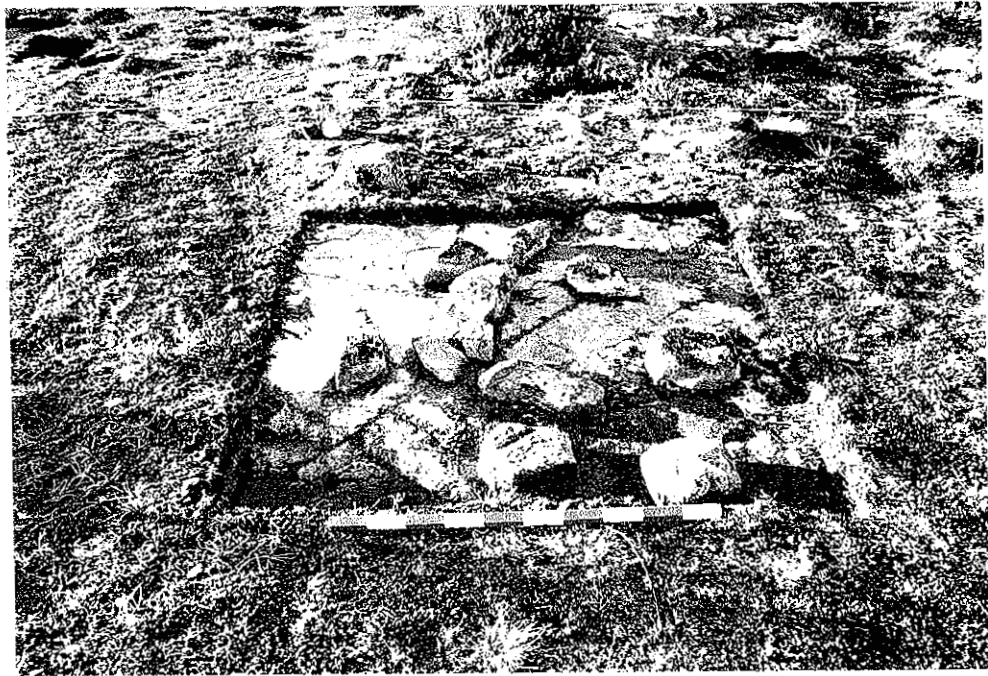


Photo 15. Feature III following excavation. Toward the north.

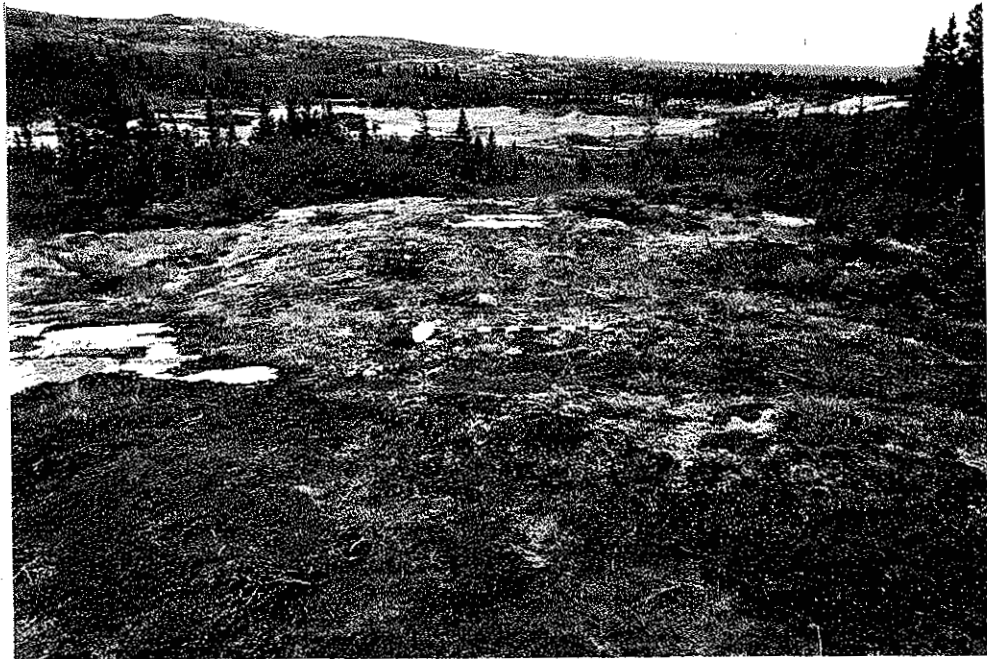


Photo 16. Feature IV, a possible cache, prior to excavation. Toward the southwest.

Appendix 1
List of Photographs

Appendix 1. List of Photographs

1. Colour Prints

<u>Roll</u>	<u>Negative</u>	<u>Subject</u>	<u>Orientation</u>	<u>Date</u>	
C9002-1	26	Surface-collecting, western periphery of gravel pit	SW	15/8/90	
	27	Structure 6	NW	15/8/90	
	28	Structure 7	SE	15/8/90	
	29	Structures 6 and 7	W	15/8/90	
	30	Feature III, rock concentration	N	15/8/90	
	31	Feature IV, rock concentration	W	15/8/90	
	32	Structure 8	E	15/8/90	
	33	Structure 8	NW	15/8/90	
	34	General view, western portion of GhGk-63	SW	15/8/90	
	35	General view of GhGk-63	W	15/8/90	
	36	Structure 1	N	15/8/90	
	37	Structure 1	SE	15/8/90	
	C9002-2	1	General view, western portion of GhGk-63	SE	15/8/90
		2	Surface-collecting, western periphery of gravel pit	SW	15/8/90
3		Surface-collecting, western periphery of gravel pit	NW	15/8/90	
4		Surface-collecting, western periphery of gravel pit	SE	15/8/90	
5		General view, western portion of GhGk-63	N	15/8/90	
6		Gravel pit	E	15/8/90	
7		Gravel pit extension	NE	15/8/90	

<u>Roll</u>	<u>Negative</u>	<u>Subject</u>	<u>Orientation</u>	<u>Date</u>
	8	BS54, humus layer	E	16/8/90
	9	Structure 10	N	16/8/90
	10	Excavation in western portion of GhGk-63	SW	16/8/90
	11	Structure 9	N	16/8/90
	12	Excavated Structure 8	NW	19/8/90
	13	Excavated Structure 8	SE	19/8/90
	14	Excavated Structure 8	E	19/8/90
	15	Excavated Structures 6 and 7	SE	19/8/90
	16	Excavated Structures 6 and 7	W	19/8/90
C9002-3	0A	Feature III, rock concentration	N	29/8/90
	1A	Feature II, raw material cache	ESE	30/8/90
	2A	Feature II	ESE	30/8/90
	3A	Feature II	NW	30/8/90
	12A	Excavated Feature II	W	30/8/90
C9002-4	1	CE 57, stratigraphy, north wall	N	3/9/90
	2	BR 57, stratigraphy, east wall	E	3/9/90
	3	CD 59, stratigraphy, north wall	N	3/9/90
	4	BP 57, stratigraphy, east wall	E	3/9/90
	5	BN 57, stratigraphy, south wall	S	3/9/90

2. Black and White Prints

<u>Roll</u>	<u>Negative</u>	<u>Subject</u>	<u>Orientation</u>	<u>Date</u>
BW9002-1	2	General view of western portion of GhGk-63	S	15/8/90
	3	Structure 6	NW	15/8/90
	4	Structure 7	SE	15/8/90
	5	Structures 6 and 7	W	15/8/90
	6	Feature III, rock concentration	N	15/8/90
	7	Feature IV, rock concentration	W	15/8/90
	8	Structure 8	E	15/8/90
	9	Structure 8	NW	15/8/90
	10	General view, western portion of GhGk-63	SW	15/8/90
	11	General view, of GhGk-63	W	15/8/90
	12	Structure 1	N	15/8/90
	13	Structure 1	SE	15/8/90
	14	General view, western portion	S	15/8/90
	15	Disturbed zone	SE	15/8/90
	16	General view, western portion	N	15/8/90
	17	General view, disturbed zone	E	15/8/90
	18	General view, disturbed zone	ESE	15/8/90
	19	Structure 10	N	16/8/90
	20	Excavation	S	16/8/90
	21	Structure 9	N	16/8/90
	22	Excavated Structure 8	NW	19/8/90
	23	Excavated Structure 8	SE	19/8/90

<u>Roll</u>	<u>Negative</u>	<u>Subject</u>	<u>Orientation</u>	<u>Date</u>
BW9002-1 (suite)	24	Excavated Structure 8	E	19/8/90
	25	Excavated Structure 6 and 7	SE	19/8/90
	26	Excavated Structures 6 and 7	W	19/8/90
BW9002-2	3	Excavated Feature III	N	29/8/90
	4	Feature II, lithic cache	ESE	30/8/90
	5	Feature II	ESE	30/8/90
	6	Feature II	NW	30/8/90
	14	Excavated Feature II	W	2/9/90

3. Slides

<u>Roll</u>	<u>Slide</u>	<u>Subject</u>	<u>Orientation</u>	<u>Date</u>
S9002-1	1	Structure 6	N	15/8/90
	2	Structure 7	S	15/8/90
	3	Structures 6 and 7	W	15/8/90
	4	Structure 8	NW	15/8/90
	5	Structure 1	N	16/8/90
	6	Excavation	S	16/8/90
	7	Excavated Structure 8	NW	19/8/90
	8	Excavated Structure 8	SE	19/8/90
	9	Excavated Structure 8	E	19/8/90
	10	Excavated Structures 6 and 7	SE	19/8/90
	11	Excavated Structures 6 and 7	W	19/8/90
	12	Structure 1	S	19/8/90
S9002-2	1	Excavated Feature III	N	29/8/90
	2	Feature II, lithic cache	ESE	30/8/90
	3	Feature II	ESE	30/8/90
	4	Feature II	NW	30/8/90
	5	Feature II	NW	30/8/90
	6	Excavated Feature II	W	2/9/90

Appendix 2
List of Lithic Specimens

1. Tools

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
13	microblade	BN 56	II	N10/E50	quartz crystal
14	microblade	BN 56	II	N10/E50	chert
15	microblade	BN 56	II	N15/E55	quartz crystal
16	microblade	BN 56	III	SW	chert
17	microblade	BN 56	III	N19/E30	chert
18	microblade	BN 56	III	N25/E73	chert
19	microblade	BN 56	III	N35/E95	quartz crystal
20	microblade	BN 57	III	NE	quartz crystal
21	microblade	BN 57	III	NE	chert
22	microblade	BN 57	III	SE	chert
23	microblade	BN 57	III	SE	quartz crystal
24	microblade	BN 57	III	SE	chert
25	microblade	BN 57	III	SE	chert
26	microblade	BN 57	III	N20/E75	chert
27	microblade	BN 57	III	NW	chert
28	microblade	BN 57	III	N25/E65	chert
29	microblade	BN 57	III	N25/E75	chert
30	microblade	BN 57	III	SE	chert
31	microblade	BN 57	III	N30/E70	chert
32	microblade	BN 57	III	N40/E60	chert
33	microblade	BN 57	III	N80/E70	chert
34	microblade	BN 57	III	N70/E90	chert
35	microblade	BN 57	III	N67/E57	chert
36	microblade	BN 57	III	N93/E97	quartz crystal
37	microblade	BN 57	III	N95/E55	chert
38	microblade	BN 57	III	N65/E63	chert
39	microblade	BN 57	III	N70/E90	quartz crystal
40	microblade	BN 57	III	N90/E80	chert
41	microblade	BN 57	III	N83/E85	chert
42	microblade	BN 57	III	N70/E90	chert
43	microblade	BN 57	III	N65/E80	chert
44	microblade	BN 57	III	N75/E90	chert
45	microblade	BN 57	III	N93/E86	chert
46	microblade	BN 57	III	N98/E70	chert
47	microblade	BN 57	III	N95/E75	quartz crystal
48	microblade	BN 57	III	N80/E85	chert
49	microblade	BN 57	III	N10/E85	chert
50	microblade	BN 57	III	N45/E75	chert
51	microblade	BN 57	III	N45/E95	chert
52	microblade	BN 57	III	NW	chert
53	microblade	BN 57	III	N45/E95	chert
54	microblade	BN 57	III	N50/E90	chert
55	microblade	BN 57	III	N43/E75	chert
56	microblade	BN 57	III	NW	quartz crystal
57	microblade	BP 56	II	SE	chert
58	microblade	BP 56	II	N60/E40	chert
59	microblade	BP 56	II	SE	chert
60	microblade	BP 57	II	SE	quartz crystal
61	microblade	BP 57	II	SE	chert
62	microblade	BP 57	II	NW	chert
63	microblade	BQ 55	III	NE	quartz crystal
64	microblade	BQ 55	III	N37/E39	quartz crystal

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
65	microblade	BR 55	III	NW	chert
66	microblade	BR 56	II	N63/E88	quartz crystal
67	microblade	BR 57	I	N58/E50	chert
68	microblade	BR 57	II	NE	quartz crystal
69	microblade	BR 57	II	NE	quartz crystal
70	microblade	BR 57	II	SW	chert
71	microblade	BS 54	III	NE	chert
72	microblade	BS 55	III	NW	chert
73	microblade	BS 56	III	SE	chert
74	microblade	BS 56	III	SE	chert
75	microblade	BT 56	III	N72/E60	chert
76	microblade	BT 56	III	NE	chert
77	microblade	BT 56	III	N5/E40	chert
78	microblade	BT 56	III	NE	chert
79	microblade	BT 56	III	NE	chert
80	microblade	BT 56	III	N20/E40	chert
81	microblade	BT 56	III	NE	chert
82	microblade	BT 56	III	N60/E16	chert
83	microblade	BP 57	II	SW	quartz crystal
84	microblade	BP 57	II	SW	quartz crystal
85	microblade	BP 57	II	SW	chert
86	microblade	BZ 62	III	N21/E74	chert
87	microblade	CD 54	II	N15/E37	chert
88	microblade	CE 58	III	N57/E19	chert
89	microblade	CE 58	III	SW	chert
90	microblade	CE 57	III	NE	chert
91	microblade	BQ 54	II	SW	chert
92	microblade	Feature II	III	-	chert
93	microblade	disturbed zone	surface	-	chert
94	microblade	disturbed zone	surface	-	chert
95	microblade	disturbed zone	surface	-	chert
96	microblade	disturbed zone	surface	-	chert
97	microblade	disturbed zone	surface	-	chert
98	microblade	disturbed zone	surface	-	chert
99	microblade	disturbed zone	surface	-	chert
100	point	BN 56	II	N28/E41	chert
101	point	BN 56	III	N35/E95	chert
102	point	BN 56	II	N4/E92	chert
103	point	BN 57	II	NE	chert
104	point	BN 57	III	NE	chert
105	point	BN 57	III	NE	chert
106	point	BN 57	III	NE	chert
107	point	BN 57	III	SE	chert
108	point	BN 57	III	N67/E95	chert
109	point	BN 57	III	N80/E53	chert
110	point	BN 57	III	N65/E63	chert
111	point	BN 57	III	N80/E95	chert
112	point	BN 57	III	N80/E75	chert
113	point	BN 57	III	N55/E60	chert
114	point	BN 57	III	N90/E85	chert
115	point	BN 57	III	NW	chert
116	point	BP 56	II	N75/E35	chert
117	point	BP 56	II	N86/E41	chert
118	point	BP 56	II	N58/E90	chert

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
119	point	BP 57	II	NE	chert
120	point	BP 57	II	NW	chert
121	point	BP 57	II	NW	chert
122	point	BQ 55	I	NW	chert
123	point	BR 57	II	NE	chert
124	point	BS 55	III	N51/E70	hyalin
125	polished knife fragment	BS 54	III	N50/E35	slate
126	point	BS 54	III	N64/E13	chert
127	point	BS 54	III	N60/E10	chert
128	point	BZ 62	III	N33/E67	chert
129	point	CE 58	III	N45/E50	chert
130	point	CL 80	surface	N45/E90	quartzite
131	point	disturbed zone	surface	-	chert
132	tip flute spall	BN 57	III	NE	chert
133	tip flute spall	BN 57	III	NE	chert
134	tip flute spall	BN 57	III	NE	chert
135	tip flute spall	BN 57	III	N65/E95	chert
136	tip flute spall	BP 56	II	SE	chert
137	tip flute spall	BP 57	II	SE	chert
138	tip flute spall	BN 57	III	N23/E85	chert
139	tip flute spall	BN 57	III	N90/E70	chert
140	tip flute spall	BP 57	II	SE	chert
141	tip flute spall	BP 56	II	SE	chert
142	tip flute spall	BS 54	III	NE	chert
143	tip flute spall	BT 56	II	N67/E24	chert
144	tip flute spall	CD 54	II	N40/E19	chert
145	tip flute spall	CD 54	II	N24/E12	chert
146	tip flute spall	disturbed zone	surface	-	chert
147	end scraper	BN 57	II	NE	chert
148	end scraper	BN 57	III	NE	chert
149	end scraper	BN 57	III	N80/E60	chert
150	end scraper	BN 57	III	N86/E70	chert
151	end scraper	BP 56	II	N60/E40	chert
152	end scraper	BP 57	II	SE	chert
153	end scraper	BP 57	II	SE	chert
154	end scraper	BP 57	II	SW	quartz crystal
155	end scraper	BP 57	II	SW	chert
156	end scraper	BP 57	II	SW	chert
157	end scraper	BP 57	II	NW	chert
158	end scraper	BS 55	II	N50/E7	chert
159	end scraper	CD 55	II	NW	chert
160	end scraper	CE 57	II	N30/E51	quartz crystal
161	end scraper	CE 58	III	N83/E29	chert
162	polished knife	BN 57	III	NE	slate
163	knife	BP 56	II	SE	quartz crystal
164	polished knife	BP 56	II	N86/E38	slate
165	polished knife	BP 57	II	N66/E66	slate
166	polished knife	BR 57	II	N35/E5	slate
167	polished knife	BS 54	III	N12/E65	slate
168	polished knife	BS 55	III	N35/E70	slate
169	polished knife	BS 55	III	N40/E3	slate
170	knife	conc. 1	surface	-	chert
171	polished knife	disturbed zone	surface	-	slate
172	knife	disturbed zone	surface	-	chert

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
173	burin	BT 56	III	N5/E24	hyalin
174	burin like tool	BN 57	III	SW	chert
175	burin like tool	BN 57	III	NW	chert
176	burin spall	BS 54	III	NE	chert
177	burin spall	BS 55	II	SE	chert
178	burin spall	BT 56	III	NE	chert
179	abrader	BN 57	III	N62/E20	quartzite
180	biface fragment	BN 57	III	NE	chert
181	biface fragment	BN 57	III	N0/E53	chert
182	biface fragment	BN 57	III	N45/E90	chert
183	biface fragment	BN 57	III	SE	chert
184	biface fragment	BN 57	III	SE	chert
185	biface fragment	BS 54	II	N15/E20	chert
186	biface fragment	BS 55	III	N79/E20	hyalin
187	biface fragment	BT 56	III	N2/E20	chert
188	biface fragment	BT 56	III	NE	chert
189	biface fragment	CE 58	III	NW	chert
190	biface fragment	conc. I	surface	-	chert
191	polished fragment	BN 56	III	NE	chert
192	polished fragment	BN 56	III	NE	slate
193	polished fragment	BN 56	III	NE	slate
194	polished fragment	BN 57	III	NE	slate
195	polished fragment	BN 57	III	SE	slate
196	polished fragment	BN 57	III	SE	slate
197	polished fragment	BN 57	III	SW	slate
198	polished fragment	BN 57	III	N7/E35	slate
199	polished fragment	BN 57	III	NE	slate
200	polished fragment	BN 57	III	NE	slate
201	polished fragment	BN 57	III	NE	slate
202	polished fragment	BN 57	III	NE	slate
203	polished fragment	BN 57	III	SW	slate
204	polished fragment	BN 57	III	N95E70	slate
205	polished fragment	BN 57	III	SW	slate
206	polished fragment	BN 57	III	SW	chert
207	polished fragment	BN 57	III	SW	slate
208	polished fragment	BN 57	III	NW	slate
209	polished fragment	BN 57	III	N25/E75	chert
210	polished fragment	BN 57	III	NW	soapstone
211	polished fragment	BP 57	II	SE	slate
212	polished fragment	BP 57	II	SE	slate
213	polished fragment	BR 55	III	NE	slate
214	polished fragment	BS 54	III	NE	slate
215	polished fragment	BS 54	III	NW	slate
216	polished fragment	BS 55	II	SW	slate
217	polished fragment	BS 56	III	SE	metabasalt
218	polished fragment	CE 58	III	N53/E48	slate
219	polished fragment	CE 57	II	N55/E22	slate
220	polished fragment	CE 58	III	N65/E65	slate
221	polished fragment	disturbed zone	surface	-	slate
222	preform	BN 57	III	NE	chert
223	preform	Feature II	surface	-	chert
224	preform	Feature II	surface	-	chert
225	preform	Feature II	surface	-	chert
226	preform	Feature II	surface	-	chert

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
227	preform	Feature II	surface	-	chert
228	preform	Feature II	surface	-	chert
229	preform	Feature II	surface	-	chert
230	preform	Feature II	surface	-	chert
231	preform	Feature II	surface	-	chert
232	preform	Feature II	surface	-	chert
233	preform	Feature II	surface	-	chert
234	microblade core	BN 55	III	SE	chert
235	microblade core	BN 57	III	N95/E100	chert
236	microblade core	BN 56	III	N10/E70	chert
237	microblade core	BP 57	II	SE	chert
238	microblade core	Feature II	surface	-	chert
239	flake core	BN 55	I	N36/E5	chert
240	flake core	BN 55	III	SE	chert
241	flake core	BN 55	III	SE	chert
242	flake core	BN 56	III	N5/E15	chert
243	flake core	BN 57	III	N77/E24	chert
244	flake core	BN 57	III	N18/E91	chert
245	flake core	BN 57	III	N10/E77	chert
246	flake core	BN 57	III	N58/E18	chert
247	flake core	BP 57	II	SE	chert
248	flake core	BP 57	II	SE	chert
249	flake core	BP 57	II	SE	chert
250	flake core	BT 56	III	N20/E40	chert
251	flake core	disturbed zone	surface	-	chert
252	flake core	disturbed zone	surface	-	chert
253	flake core	Feature II	surface	-	chert
254	flake core	Feature II	surface	-	chert
255	flake core	Feature II	surface	-	chert
256	flake core	Feature II	surface	-	chert
257	flake core	Feature II	surface	-	chert
258	flake core	Feature II	surface	-	chert
259	flake core	Feature II	surface	-	chert
260	flake core	Feature II	surface	-	chert
261	flake core	Feature II	surface	-	chert
262	flake core	Feature II	surface	-	chert
263	retouched flake	BN 56	III	N36/E70	chert
264	retouched flake	BN 56	III	NE	chert
265	retouched flake	BN 57	III	N40/E90	chert
266	retouched flake	BN 57	III	SE	chert
267	retouched flake	BN 57	III	N85/E80	slate
268	retouched flake	BN 57	III	NE	chert
269	retouched flake	BN 57	III	N90/E85	chert
270	retouched flake	BN 57	III	N20/E93	chert
271	retouched flake	BN 57	III	N20/E98	hyalin
272	retouched flake	BR 57	I	SE	chert
273	retouched flake	BR 57	II	NE	chert
274	retouched flake	BS 55	III	N33/E36	chert
275	tip flute spall	BT 56	III	N6/E24	chert
276	retouched flake	disturbed zone	surface	-	chert
277	retouched flake	disturbed zone	surface	-	chert
278	retouched flake	disturbed zone	surface	-	chert
279	retouched flake	disturbed zone	surface	-	chert
280	retouched flake	disturbed zone	surface	-	chert

Catalogue Number	Object	Excavation Unit	Level	Coordinates	Raw Material
281	retouched flake	disturbed zone	surface	-	chert
282	retouched flake	disturbed zone	surface	-	chert
283	used flake	BN 56	II	N10/E33	slate
284	used flake	BN 57	III	NE	metabasalt
285	used flake	BN 57	III	NE	chert
286	used flake	disturbed zone	surface	-	chert
287	knife	BN 57	III	N70/E75	slate
288	hammerstone	BN 57	III	NE	metabasalt
289	used flake	Feature II	surface	-	chert
290	microblade	CD 54	II	N36/E10	chert
291	microblade	BN 57	III	NW	chert
292	polished point	BS 56	III	NE	slate
293	polished burin spall	disturbed zone	surface	-	chert
294	knife	BP 56	II	N60/E40	chert
295	biface fragment	BP 57	II	SW	chert
296	biface fragment	BN 57	III	N85/E95	chert
297	biface fragment	disturbed zone	surface	-	chert
446	biface fragment	BS 54	II	NW	chert
447	retouched flake	disturbed zone	surface	-	quartzite
448	used flake	BR 57	II	NE	chert
449	used flake	CE 55	II	SE	chert
450	microblade	BR 55	I	NW	chert
451	microblade	BR 55	II	SE	quartz crystal
452	microblade	BR 56	II	NE	chert
453	microblade	BR 56	II	NE	chert
454	microblade	BR 56	II	NE	chert
455	microblade	BP 57	II	SW	quartz crystal
456	microblade	BP 57	II	SW	quartz crystal
457	microblade	BP 56	III	N98/E20	chert
458	microblade	BS 56	III	SW	chert
459	microblade	BS 56	III	SW	chert
460	microblade	BP 57	II	SE	quartz crystal
461	microblade	BP 57	II	SE	chert
462	tip flute spall	BR 55	II	SE	chert
463	tip flute spall	BS 56	III	SW	chert
464	tip flute spall	BP 56	II	N5/E15	chert
465	tip flute spall	BP 57	II	SE	chert
466	point	BN 57	III	N30/E65	chert
467	knife	BP 57	II	SE	slate
468	end scraper	BP 57	I	NE	chert
469	burin	BP 57	II	SW	quartz crystal
470	microblade core	BP 57	II	SW	quartz crystal
471	microblade core	BP 57	II	SW	quartz crystal
472	flake core	BR 56	II	NW	chert
473	polished fragment	BP 57	II	SE	slate
474	polished fragment	BP 57	II	SE	slate
475	polished fragment	BP 57	II	SE	slate
476	preform	BR 57	II	NW	chert
478	retouched flake	BR 56	II	NE	chert
479	retouched flake	BR 57	II	SW	chert
480	retouched flake	BP 57	II	SW	chert
481	retouched flake	BP 57	II	SE	chert
482	retouched flake	BP 57	II	NE	chert

2. Waste Flakes

Catalogue Number	Excavation Unit	Quadrant	Level	Raw Material	Number of flakes
298	BN 54	SE	-	chert	1
299	BN 55	NE	II	chert	7
300	BN 56	NE	I	chert	11
301	BN 56	NE	II	chert	3
302	BN 56	NW	II	chert	9
303	BN 56	NE	III	chert	21
304	BN 56	SE	III	chert	44
305	BN 56	SE	III	slate	2
306	BN 56	SE	III	metabasalt	2
307	BN 56	NW	-	chert	1
308	BN 56	NW	-	chert	104
309	BN 56	-	III	chert	24
310	BN 56	-	III	quartz crystal	2
311	BN 57	NE	III	chert	62
312	BN 57	NE	III	quartz crystal	1
313	BN 57	NE	III	quartzite	10
314	BN 57	NE	III	slate	1
315	BN 57	SE	III	chert	94
316	BN 57	SE	III	quartzite	61
317	BN 57	SE	III	slate	2
318	BN 57	-	III	chert	178
319	BN 57	-	III	hyalin	23
320	BN 57	NE	III	chert	139
321	BN 57	NE	III	slate	2
322	BN 57	NE	III	hyalin	1
323	BN 57	NE	III	quartzite	1
324	BN 57	SE	III	chert	27
325	BN 57	SE	III	quartzite	44
326	BN 57	SE	III	slate	1
327	BN 57	SW	III	chert	428
328	BN 57	SW	III	hyalin	4
329	BN 57	SW	III	quartzite	38
330	BN 57	SW	III	slate	13
331	BN 57	SW	III	metabasalt	4
332	BN 57	NW	III	chert	136
333	BN 57	NW	III	hyalin	7
334	BN 57	NW	III	quartz crystal	3
335	BN 57	NW	III	quartzite	16
336	BP 56	SE	I	chert	1
337	BP 56	SW	I	chert	10
338	BP 56	NE	II	chert	1
339	BP 56	SE	II	chert	100
340	BP 56	SE	II	hyalin	1
341	BP 56	SE	II	slate	2
342	BP 56	SE	II	slate	2
343	BP 56	-	II	chert	12
344	BP 56	SE	III	chert	4
345	BP 57	SE	II	chert	91
346	BP 57	SE	II	slate	1
347	BP 57	SW	II	chert	75
348	BP 57	SW	II	hyalin	4
349	BP 57	NW	II	chert	8

Catalogue Number	Excavation Unit	Quadrant	Level	Raw Material	Number of flakes
350	BP 57	NE	II	chert	6
351	BP 57	NE	II	chert	15
352	BP 57	NE	II	milky quartz	1
353	BQ 54	NE	I	chert	1
354	BQ 54	SE	II	chert	9
355	BQ 54	SE	III	chert	2
356	BQ 57	SE	II	chert	1
357	BQ 55	NW	I	chert	11
358	BQ 55	SE	III	chert	4
359	BQ 55	NW	III	chert	1
360	BQ 55	NE	III	chert	30
361	BQ 55	NE	III	slate	2
362	BR 55	NW	II	slate	2
363	BR 55	NE	III	chert	42
364	BR 55	NW	III	chert	9
365	BR 57	SE	I	chert	2
366	BR 57	NE	II	chert	51
367	BR 57	SE	II	chert	8
368	BR 57	SW	II	chert	38
369	BR 57	NW	II	chert	3
370	BR 57	SE	III	chert	4
371	BS 54	NW	II	chert	24
372	BS 54	SE	II	chert	1
373	BS 54	NW	II	chert	1
374	BS 54	NE	II	chert	4
375	BS 54	NE	III	chert	76
376	BS 54	NE	III	slate	10
377	BS 54	SE, conc. 2	III	chert	17
378	BS 54	SE, conc. 2	III	quartz crystal	1
379	BS 54	SE, conc. 2	III	metabasalt	1
380	BS 54	NW	III	chert	18
381	BS 54	NW	III	quartz crystal	1
382	BS 55	SE	II	chert	12
383	BS 55	SW	II	chert	4
384	BS 55	NE	III	chert	3
385	BS 55	SE	III	chert	25
386	BS 55	SW	III	chert	18
387	BS 55	SW	III	slate	1
388	BS 55	NW	III	chert	6
389	BS 56	SE	III	chert	126
390	BS 56	SE	III	quartzite	35
391	BS 56	NE	IIa	chert	4
392	BS 56	NE	IIa	quartzite	2
393	BS 56	SW	III	chert	4
394	BS 56	NW	III	chert	2
395	BT 56	NW	III	chert	1
396	BT 56	NW	III	slate	1
397	BT 56	NE	III	chert	481
398	BT 56	NE	III	quartzite	5
399	BT 56	NE	III	hyalin	4
400	BT 56	NE	III	slate	2
401	BZ 62	NW	III	chert	6
402	BZ 62	NW	III	hyalin	1
403	BZ 63	SE	III	chert	1

Catalogue Number	Excavation Unit	Quadrant	Level	Raw Material	Number of flakes
404	BZ 63	NW	III	chert	2
405	BZ 63	NW	III	hyalin	1
406	CB 81	NE	surface	chert	1
407	CB 81	NE	III	chert	2
408	CD 55	NW	II	chert	14
409	CD 55	NE	II	chert	1
410	CD 54	NE	II	chert	11
411	CD 59	NW	II	chert	2
412	CD 59	NW	III	chert	1
413	CE 54	SE	II	chert	2
414	CE 54	SW	II	chert	3
415	CE 54	NW	II	chert	2
416	CE 54	NE	II	chert	1
417	CE 55	SW	II	chert	11
418	CE 55	NW	II	chert	3
419	CE 55	SW	III	chert	3
420	CE 57	SE	II	chert	7
421	CE 57	NE	II	chert	4
422	CE 58	SE	II	chert	1
423	CE 58	SW	II	chert	2
424	CE 58	NW	II	chert	2
425	CE 58	SE	III	chert	8
426	CE 58	SW	III	chert	8
427	CE 58	SW	III	slate	1
428	CE 58	SW	III	hyalin	1
429	CE 58	NW	III	chert	18
430	CE 58	NE	III	chert	14
431	CR 82	-	surface	chert	1
432	BQ 54	SW	II	chert	3
433	BY 63	SE	III	chert	1
434	disturbed zone	-	surface	chert	352
435	disturbed zone	-	surface	hyalin	7
436	disturbed zone	-	surface	metabasalt	1
437	disturbed zone	-	surface	quartz crystal	1
438	disturbed zone	-	surface	slate	2
439	conc. 1	-	III	chert	15
440	conc. 1	-	surface	chert	25
441	conc. 1	-	surface	hyalin	1
442	Feature II	-	surface	chert	95
443	BN 56	-	III	metabasalt	9
483	disturbed zone	-	-	milky quartz	1
484	BR 55	NE	II	slate	1
485	BR 55	SE	II	slate	1
486	BR 55	NE	II	chert	20
487	BR 55	SW	I	chert	21
488	BR 56	NW	II	chert	203
489	BP 56	NE	II	slate	2
490	BP 56	NE	II	chert	283
491	BP 56	SE	II	quartz crystal	1
492	BR 57	SE	II	chert	21
493	BP 57	SE	II	chert	1
494	BR 57	SW	II	hyalin	1
495	BR 57	SW	II	slate	2
496	BR 57	SW	II	metabasalt	1

Catalogue Number	Excavation Unit	Quadrant	Level	Raw Material	Number of flakes
497	BR 56	SE	II	chert	11
498	BQ 55	NE	II	chert	1
499	BR 57	SE	II	quartzite	1
500	BP 57	SE	II	chert	1

3. Unworked Nodules

Catalogue Number	Excavation Unit	Quadrant	Level	Raw Material	Number of specimens
444	BN 57	III	SW	quartz crystal	1
445	BR 57	III	N30/E90	metabasalt	1