

**Azerbaijan Republic  
National Academy of Sciences  
Institute of Archaeology and Ethnography**

**Najaf Museyibli, Gahraman Agayev, Safar Ashurov, Idris Aliyev,  
Muzaffar Huseynov, Shamil Najafov, Farhad Guliyev**

**Long Report  
Excavations of Tovuzchai Necropolis  
KP 378 - BTC ROW**

**Baku – Azerbaijan  
2008**

## **ABSTRACT**

The Tovuzchai Necropolis is located on the left higher bank of the Tovuzchai River in the Tovuz District in the west of Azerbaijan. The site was excavated during 2004 and 2005 because of the BTC and SCP pipelines traversing the area of the necropolis. A total of 89 late Bronze Age to early Iron Age burials dating to the second half of the 2<sup>nd</sup> millennium- early 1<sup>st</sup> millennium, B.C. were excavated at the site. The burials of the Khojali-Gedabey culture produced rich archaeological material – pottery vessels, metal items for domestic use, jewellery, weaponry, beads made of different materials and other artefacts.

## Table of Contents

<b>I. Introduction</b> .....	3
• <i>Description of the BTC and SCP Archaeology Programme</i>	
• <i>Discovery of the Archaeological Site</i>	
<b>II. Archaeological Contexts for Understanding the Site</b> .....	3
• <i>General Archaeological Overview of this Portion of Azerbaijan</i>	
• <i>General Summary of the Geography and Geology of the Area</i>	
<b>III. Field and Office Methods</b> .....	5
• <i>Field Methods</i>	
• <i>Office/Laboratory Methods</i>	
• <i>Special Analysis</i>	
• <i>Archive Disposition</i>	
<b>IV. Excavation Results</b> .....	6
• <i>Site Description</i>	
• <i>Description of Cultural Layers</i>	
• <i>Description of Finds</i>	
<b>V. Analytical Results</b> .....	97
• <i>Interpretation of Excavation Results</i>	
• <i>Dating</i>	
• <i>Discussion and Analysis of the Results of the Work Compared with Other Sites of a Similar Nature on the Pipeline Route</i>	
• <i>Discussion of the Site within a Regional and National Context</i>	
<b>VI. Illustrations</b> .....	102
<b>VII. Inventory of Artefacts</b> .....	192



## **I. Introduction**

- ***Description of the BTC and SCP Archaeology Programme***

Archaeological excavations in connection with the construction of the BTC and SCP pipelines were conducted prior to, and during the construction of these pipelines. These excavations generally were carried out within the 44m wide pipeline corridor from 2001 to 2005. The archaeology program consisted of five phases of which the first four phases constituted field investigations:

Phase I – actual and potential archaeological sites were visually identified during walkover or baseline surveys during the selection of the pipeline route.

Phase II – the sites that were identified during Phase I as archaeologically potential were tested by digging test pits and conducting small-scale trial excavations.

Phase III – small and large-scale excavations were carried out within the BTC ROW.

Phase IV – small and large-scale excavations were carried out within the SCP ROW.

In addition to these, all the construction activities were monitored by watching brief archaeologists.

In general, during the core Phase III and Phase IV archaeological excavations were carried out at 41 sites with thousands of artefacts discovered. None of these sites had been previously known to archaeological science.

Phase V – preparation of scientific reports on the archaeological excavations carried out during the previous phases.

- ***Discovery of the Archaeological Site***

The Tovuzchai Necropolis was first reported to archaeologists by pipeline construction staff in May 2004 following topsoil stripping which exposed pottery spreads in the upper subsoil layers of the site. The information was privately communicated to the IoAE archaeologist Gahraman Agayev by one of the drivers working for the project. After surveying the site Gahraman Agayev established the presence of a late Bronze Age to early Iron Age necropolis in the area. Archaeological excavation of the Tovuzchai Necropolis was carried out by the following IoAE archaeologists in 2004-2005 in the order shown below:

Gahraman Agayev, Safar Ashurov, Najaf Museyibli, Idris Aliyev, Muzaffar Huseynov, Farhad Guliyev and Shamil Najafov. Other IoAE employees: Yagil Danyalov, Vagif Asadov, Ahliman Abdulrahmanov, Anar Agalarzade, Ayaz Gafarov, Ziya Hajili, Anver Kazimov, Elnur Gafarov and Fuad Huseynov participated in the archaeological excavations. Work at site was supervised by the BTC archaeology representatives Richard Moore, Claire Angus and Ed Dunn.

## **II. Archaeological Contexts for Understanding the Site**

- ***General Archaeological Overview of this Portion of Azerbaijan***

The Ganja-Gazakh region of Azerbaijan, particularly the Kura riverside areas are rich in archaeological monuments of different dates. Favourable climatic conditions, plentiful water sources and fertile soil have attracted people to this area since ancient times.

Settlement sites and burial monuments dating from different historical periods have been identified and explored in this part of Azerbaijan.

Archaeological excavations have been conducted in the area since the first half of the 19<sup>th</sup> century, however initially the artefacts recovered from different sites were taken out of the country. For instance, the Swiss archaeologist Dobua de Monperi excavated in the area in 1834 and took to France numerous artefacts he recovered from sites. Amateur archaeologists N. O. Selosani and V. Belk were in fact robbing rather than investigating monuments. During 1889-1892 over 300 burial monuments were opened up by V. Belk only and the recovered invaluable finds were taken to the Berlin, Munich and Hamburg museums.

The Azerbaijan Archaeological Committee set up in 1923 put an end to this practice. The Committee played an important part in the planned investigation of archaeology in Azerbaijan. The services of such Azerbaijan scientists as A. Alakbarov, I Jafarzade, D. Sharifov, S. Gaziyeu and Y. Hummelin in the study of archaeology of the western part of Azerbaijan cannot be overestimated. The Mingachevir archaeological expedition launched in 1946 made an outstanding contribution to the development of archaeology not only in this region but entire South Caucasus.

Very important and valuable sites were discovered and explored in the western region of Azerbaijan in connection with the BTC and SCP pipelines construction. The excavated sites could be said to date to almost all historical periods. These were the Borsunlu Kurgan, Yaldili jar burials, Narimankend Necropolis, Fakhrali, Lak I and Lak II, Hajialili I, Hajialili II and Hajialili III, Garajamirli I and Garajamirli II settlement sites and other monuments.

- ***General Summary of the Geography and Geology of the Area***

The relief, geographic and geological characteristics of any region condition the economics, material culture and consequently the entire mode of life of people in this area during different periods of history. From this point of view of particular interest is the Ganja-Gazakh region which is divided into three distinctive parts in terms of relief, geography and geology: mountainous, sub mountainous and flat. From the west and south-west the area is locked with high ridges of the Minor Caucasus. The highest peaks in these ridges are the Goshgar Dagi (3378m) and Hinal Dagi (3373m). The alpine and sub alpine grasslands high in the mountains and foothills of the Minor Caucasus are covered with thick green vegetation even in the hottest summer months which is the major factor in the development of summer animal husbandry. These areas are covered with woods at a height of 500-600m and up to 2200-2300m. Higher up the woodland changes taking the shape of narrow strips of forested land which gradually passes into sub alpine meadows and fields. At a height of 2500m the mountainsides mostly covered with alpine grasslands, sometimes rather scarce, alternate with steep rocks. It is in these mountains that the Kura River right-hand tributaries feed from plentiful water sources and snow-covered mountain peaks. The sub mountain wood and brushwood zones are the natural habitat for wild boar, bear, wolf, badger, jackal, hare and other animals. Of birds the most precious are pheasant and francolin.

The flat and partially foothill zone is located 150-600m above sea level. This zone is characterised by brown and chernozem soils fit for crop growing. At the same time large portions of this zone are semi-desert lands with sagebrush being the major vegetation. At a height of 500-600m the areas covered with sagebrush scrub are replaced with woods. Rapid water rivers running through deep gorges of the Minor Caucasus come out to the flat area and form wide river beds in these places which become even wider closer towards the Kura River. The fairly large rivers in this area are Agstafachai, Hasansu, Tovuzchai, Zayamchai, Shamkirchai and Goshgarchai. In the summer months the water flow in these rivers decreases to the extent that some of them may completely dry up and yield no water to the Kura River.

There are a number of mineral deposits in the region's mountainous areas. Commercially significant of these are a copper mine in Gedabey and an iron ore mine in Dashkasan. Deposits of semiprecious stones such as agate, opal, chalcedony, amethyst, jasper, aragonite and crystal were also discovered in this area. A gold mine and one of the largest obsidian mines in the Caucasus are located in the Kelbajar mountains in the immediate vicinity of Gedabey and Dashkasan.

### **III. Field and Office Methods**

- ***Field Methods***

Large-scale excavation at the necropolis were conducted in 2004-2005. Work was done on both the BTC and SCP sides of the pipeline easement. Excavations were carried out on a spur of high ground to the west of the Tovuzchai River, at KP 378 of the BTC ROW. The area is characterized by a series of undulations dropping away to the floor of the river valley. The necropolis was situated on one of the hillocks forming the relief of the area.

The area of the necropolis is 1.5 hectare. The gravel- and pebble-rich soil is unfit for cultivation. Therefore the land has not previously been ploughed and the burials had not been disturbed prior to commencement of pipeline construction. The BTC and SCP pipelines cut through the major portion of the necropolis. It was this part of the necropolis that produced about 90 burials during the 2004-2005 excavations. Upon consent of the BTC management some of the burials were excavated outside the pipelines construction corridor. The reason was to define the edges of the necropolis and study undisturbed burials with fully preserved surface markers. The surface markers of graves in the necropolis were represented by spreads of stones on the land surface. One of the burials had a kurgan-type mound, while some others lack surface markers altogether.

The excavation work at the Tovuzchai Necropolis was undertaken by the labour force using shovels, barrows, trowels, brushes and other hand tools to clean and expose features as they were located. The finds were recorded in field logbooks. The BTC archaeology representatives were in charge of drawing up floor plans, taking photographs and producing the overall site plan. Levels, theodolites, GPS and other devices were used for drawing a topographic plan and profiles, measuring the height of the site above sea level and taking its coordinates.

To conduct excavations the overall area of the site was initially divided into quadrats, however, this method was not later applied as causing confusion. The reason was frequent change of archaeological team leaders as well as the pipeline trench traversing through the centre of the site and thus distorting the dimensions of quadrats. As a result, the succession of graves in the quadrats was broken.

- ***Office/Laboratory Methods***

After initial treatment the material from the site was further processed at the 'Archaeological Service' department of the IoAE, ANAS. Photographs of finds were taken and drawings were made where relevant. Parallels between this and other similar sites were made and analytical analysis of artefacts was conducted in order to establish the date of the monument and get knowledge of the productions techniques of the available cultural material and crafts that once existed at the settlement site.

- ***Special Analysis***

Several human and animal bones recovered from different burials at the site were radiocarbon dated at Beta Analytic. We are thankful to Mr. David Maynard for his effort in the implementation of these analyses.

- *Archive Disposition*

The material from the Tovuzchai Necropolis is currently stored in the IoAE special archive set up for the finds retained from the BTC and SCP archaeological excavations.

#### **IV. Excavation Results**

- *Site Description*

The Tovuzchai Necropolis is located on a spur of high ground to the west of the Tovuzchai River, at KP 378 of the BTC ROW between Bozalganli and Alimardanli villages of the Tovuz District. The area is characterized by a series of undulations dropping away to the floor of the river valley. The necropolis was situated on one of the hillocks forming the relief of the area. The vegetation cover of the site is of semi-desert type.

The area of the necropolis is 1.5 hectare. The gravel- and pebble-rich soil is unfit for cultivation. Therefore the land has not previously been ploughed and the burials had not been disturbed prior to commencement of pipeline construction. The BTC and SCP pipelines corridor cut through the major portion of the necropolis. It was this part of the necropolis that produced about 90 burials during the 2004-2005 excavations. Grave markers in the necropolis were represented by spreads of stones on the land surface. One of the burials had a kurgan-type mound, while some others lack surface markers altogether.

#### **Grave 1**

Excavations were initiated in the central part of the excavation site, close to the south wall of the pipeline strip. When the upper soil layer was removed, a spread of stones measuring 3m in diameter was uncovered at 30cm depth. After drawing the plan and taking photographs, this neatly arranged set of river stones was removed and a second spread of stones, 1.55m in diameter was exposed at a depth of 60cm. When these stones were lifted, pottery vessels were noticed 50cm south, at 70cm depth. Three ceramic pots were found beneath a 50cm diameter spread of stones. One of these was a wide-mouthed jug, another one was a narrow-mouthed jug and the third one was a cylindrically-shaped pot.

Excavations carried on and it became clear, that the area with pottery vessels deepened towards the north. Therefore, a decision was taken to retain those pots in situ until the end of excavations. The second stone layer was photographed and its plan was drawn up and beneath, at a depth of 85cm a third layer of stones was exposed.

This stone setting extended 1.65m north-south by 2.53m east-west. After these stones had been removed, a fourth layer of stones was unearthed at a depth of 1.15m. This spread of stones extended 2.5m north-south by 1.6m east-west. The soil of this stone layer was distinguished by its yellowish colour. A fifth stone layer was exposed at 1.35m depth. The mouth parts of four pottery vessels were recorded to the north of this group of stones. The area resembling in shape that of a grave measured 2.3m in length east-west and 1.55m in width north-south.

The soil and stones were removed to fully open up the burial chamber. A human skeleton was unearthed in the east section of the burial chamber. It lay on its right side with the knees and elbows flexed and the head facing the south. Above the head area there was a set of 15 pottery vessels. Thirteen of these were platter-type pots, one was a churn-type pot and one was a jug-type pot. It should also be noted that nearly all of the platter-type pots were badly damaged and broken. Cattle bones were noted against the south wall of the burial chamber. No weaponry, implements or items of jewellery were contained in the grave.

It is assumed that the three pottery vessels discovered 75cm away from the burial chamber at a height of 85cm were the sacrifice place of the burial chamber. Graves of this type were widespread in the west and north-west regions of Azerbaijan. Similar graves were also discovered at Munjugtepe site in the Ordubad District. The depth of the sacrifice place was 80cm.

## **Finds**

### ***Pottery***

1. Cone-shaped vase-type pot tempered with fine sand. The colour is black. The body is widening towards the mouth. The mouth part is straight. Two parallel incised strips run around the neck beneath the mouth. The gap between the strips is 10cm. Two opposing lug handles, each with two perforated holes, are attached to the mouth. Dimensions: height – 15.5cm, mouth diameter (outer) – 16cm, (inner) – 13.5cm, body diameter - 12.5cm, base diameter – 13cm.
2. Bardag-type pottery vessel tempered with fine sand and fired to a black surface. The rim is slightly everted. The mouth part is partially broken. The short, narrow neck directly passes into the bulgy body. The upper body section is girded with a broad strip with two parallel wavy lines incised in the middle part of the strip. The body steeply tapers down towards the flat base. Dimensions: height – 25cm, mouth diameter (outer) 13cm, (inner) – 9.5cm, neck diameter – 6cm, body diameter – 24cm, base diameter – 9.5cm.
3. Wide-mouthed ceramic jug tempered with fine sand and fired to a black surface. The rim is everted. The mouth portion is partly broken. The neck is short. There are four incised parallel lines running along the pot's circumference below the neck. At the mid point the body tapers down towards the base. Dimensions: height – 19cm, mouth diameter (outer) – 19.5cm, (inner) – 16.5cm, body diameter – 21cm, base diameter – 9cm.

### ***Pottery vessels found at 1.5m depth in the grave:***

4. Ceramic storage jar made in a plain style. The colour is grey. The rim is slightly everted. The neck is short; the base is flat. Dimensions: height – 55cm, body diameter – 50cm, mouth diameter – 19cm.
5. Ceramic butter churn of a grey colour. The rim is slightly everted. The neck is short. The body tapers down towards the flat base. The pot has a rectangular-shaped handle on the body for shaking butter. Adjacent to the handle there is a lug with an opening on the surface to let butter or air come out. Dimensions: height – 34cm, neck height – 4.5cm, body diameter – 21cm, mouth diameter – 12cm, base diameter – 10cm.
6. Pink-coloured platter with a straight rim and a handle attached to the mouth. There is an orifice on the inner side of the handle. Dimensions: height – 9.5cm, mouth diameter - 27cm, base diameter – 9cm.
7. Black coloured ceramic platter. Dimensions: height – 10cm, mouth diameter – 25cm, base diameter – 8cm.
8. Black coloured ceramic platter. Dimensions: height – 10cm, mouth diameter – 23cm, base diameter – 8cm.
9. Black coloured ceramic platter. Dimensions: height – 10cm, mouth diameter – 24cm, base diameter – 9cm.
10. Black coloured ceramic platter. Dimensions: height – 10cm, mouth diameter – 20cm, base diameter – 7cm.
11. Pink coloured ceramic platter. Dimensions: height – 9cm, mouth diameter – 30cm, base diameter – 9.5cm.
12. Black coloured ceramic platter. Dimensions: height – 8cm, mouth diameter – 26cm, base diameter – 9cm.
13. Black coloured ceramic platter. Dimensions: height – 9cm, mouth diameter – 24.5cm, base diameter – 8cm.

14. Black coloured ceramic platter with a straight rim. There are two adjacent handles with perforations on one side of the mouth. Dimensions: height – 9.5cm, mouth diameter – 27cm, base diameter – 8cm.

### **Grave 2**

Grave 2 was located about 4m west of Grave 1. It was located on relatively high ground and therefore the uppermost soil layer had been removed by machines prior to archaeological excavations. This severely damaged the burial. There was a spread of small stones on the grave. The stones consisted of several layers. The soil between the stone layers was soft and grey-yellowish and differed from the surrounding gravel-rich soil. Extremely damaged, the grave did not yield measurements. No human skeleton was recorded, however three human teeth were found in different parts of the grave. The archaeological material was badly damaged. Among the crushed pottery remains there was a bowl, a jug totally missing its upper portion, two bronze rings and six beads.

#### **Finds**

##### ***Metal Objects***

Two round bronze rings. One is broken into three fragments. Diameters – approximately 2cm.

##### ***Beads***

Red agate beads. One is globular in shape, the others are semi-globular.

### **Grave 3**

Grave 3 was revealed east of Grave 1. It did not differ in shape from others. A rectangular shaped grave pit was embedded in gravel-rich soil. The grave pit was aligned east to west. The grave was 1.8m long by 1.5m wide. The grave pit was covered with reddish-grey coloured soil containing occasional stones. However these stones did not have a regular arrangement. No skeleton or skeletal remains were found in the grave. The broken remnants of a bowl-type pot and large jug, a bronze ring, two bronze pendants and varied beads were recovered from the west end of the grave.

#### **Finds**

##### ***Pottery***

1. Bowl-type pottery vessel of a black-brown colour. The rim is incurved, the neck is short, the body is relatively tall and the base is flat.
2. Jug-type pot tempered with coarse sand. The pot has a tall pear-shaped body and flat base. The surface is slightly polished. The rim is outcurved, the neck is low. There is a small hole on the shoulder drilled after firing the pot. From the shoulder area to the lower part of the neck the pot is girded with alternate straight and wavy parallel lines and trapezoid patterns. The decoration was applied by an incising technique. The base is flat. Dimensions: height – 40cm, neck height – 3cm, rim diameter – 15.7cm, base diameter – 15cm.

##### ***Metal Objects***

3. The bronze ware from the grave includes one ring and two pendants. The ring has a circular shape and is made by bending a segment of bronze wire tip to tip. The surface looks somewhat polished. Diameter – 2cm.

4. The pendants were made by bending bronze wire tip to tip. The ring terminals overlap. There are no decoration elements on the pendants. The pendant with a larger diameter is broken in half. Diameters - 2-2.5cm.

### ***Beads***

5. Among the beads assemblage 8 beads are worthy of particular attention because of their shapes. All are made of light red agate and have an irregular pear-shaped form. Each has a hole on their thin tang-like ends. Length – 1.5-2cm.

6. Eight other agate beads are globular in shape. They are small in size. Several of these resemble chipped beads. The surfaces are not completely polished.

7. Among the grave goods there are 19 paste beads. They are made by a chipping technique. They are cylindrical and globular in shape. They are very small. All of them are white. Only one is made of blue coloured paste. Made of relatively soft material, they crumble when touched by hand.

8. White, cylindrical-shaped paste bead with vertical and horizontal criss-crossing holes.

9. Blue paste bead looks like a flat trapezoidal slab. It has a vertically drilled hole and 4 notched elongated lines on its flat surface.

10. Another blue paste bead differs from others in both shape and material quality. This cylindrical-shaped bead is divided into three sections by circular notches applied at two points on the bead surface. The first cap-shaped section and second rectangular, prism-shaped section are plain in style. The third section is elongated oval. Its tip is girded with a notched line. This tip end has a thread hole.

## **Grave 4**

Grave 4 was located north of Grave 1. It took the form of a rectangular earth grave. In general, the graves in the necropolis did not differ by their structure from other late Bronze Age burials of Azerbaijan. The quadrangle-shaped grave pit was constructed within the natural stone-rich and gravelly soil layer. After the deceased had been buried, the grave pit was backfilled with yellowish soil containing layers of stones. However, these stones were not arranged in a regular pattern. The stones were at different depths, as if the grave was first backfilled with mud and then the stones thrown into this mud reached different depths. Either because of the falling stones or natural impacts the skeleton and grave goods were partially damaged. The grave had a northwest-southeast alignment. The skeleton was laid in a semi-flexed position on its left side with the face directed to the north. The arms were flexed towards the face. A jug-type pot was seen disposed behind the skull. Behind the skeleton, at the level with the skull there was a small jug and a cooking-type pot. Animal skull bones were exposed in the area between the scapular bones and the cooking-pot behind. Part of the jaw bones and teeth were recovered. A bronze bracelet was found behind the skull. The arm bones area produced a bronze ring, round bronze button-like item of jewellery, bronze and agate beads. More agate beads were retrieved from the area close to the leg bones.

### **Finds**

#### ***Pottery***

Grave goods consist of pottery ware, bronze ware and varied beads.

1. Jug. Black coloured, well fired jug-type pot thrown on a potter's wheel. The pot has a flat, small diameter base, globular body, and low narrow neck. The rim is flanged and slightly everted. The surface is slightly polished. There are decorated patterns on the lower part of the neck and shoulder. Two parallel bulgy lines, 3cm apart from each other run along the upper part of the shoulder. The area between these lines is filled with zigzag patterns. The lower part of the neck is

bordered with three narrow parallel lines applied by polishing. Between the bulgy line on the upper part of the shoulder and the final line towards the body the pot is decorated with patterns each consisting of three vertical wavelike lines. Dimensions: height – 36.5cm, neck height – 8cm, base diameter – 10cm, body diameter – 30.5cm, neck diameter – 11cm, rim diameter – 14cm.

**2.** Jug. Small, black coloured jug-type pot with a flat base and squat body. The neck is low and wide. The rim is slightly everted. The pot has two elbow-shaped handles on the shoulder. The pot circumference at the level of handles has incised decoration. Six parallel lines gird the pot above the handles. There are two more wavy lines beneath these lines. Dimensions: height – 15cm, base diameter – 6cm, body diameter – 17cm, rim diameter – 9.2cm, neck diameter – 10.7cm.

**3.** Cooking-type vessel made of clay tempered with coarse sand and finely crushed grit. The surface is black coloured and heavily sooted. Relatively coarse executed. The base is flat, the body is wide. The rim curves inwards starting immediately from the upper part of the body. The shoulder has incised decoration. Two double wavy lines band the pot shoulder. Above and between these lines, are parallel incised lines. Slanting notches run along the base edge. Dimensions: height – 18cm, base diameter – 7.2cm, rim diameter – 18.6cm.

### ***Metal Items***

**4.** Bronze bracelet made of a segment of thick wire bent end to end. It has a heavy feel because of pure composition. The object was found on the skeleton's hand. Diameter – 7.5cm.

**5.** Perforated slab-shaped bronze pendant. The remains of ring-shaped bronze wire are seen stuck in the hole. The pendant seems to have been suspended from the neck by a string.

**6.** Bronze button-like object with edges curved inward. The upper side surface is completely flat. The object is heavily corroded and the presence of any decoration element cannot be established. The lower side surface has two opposing loop-shaped handle-like protrusions. It is interesting to note that this bronze object was found near the skeleton's hand, together with agate and bronze beads. It is assumed it may have been used as a piece of hand jewellery. Diameter – 6cm.

**7.** Four bronze finger rings were recovered. All of these are made of bronze and have a circular shape. However their cross sections are different. Two of these have a circular cross section, one has a square cross section and one has a rectangular cross section. As opposed to others, the latter ring was made by bending a piece of sheet bronze end to end. Diameters – 2.5cm.

**8.** Four bronze almond-shaped pendants were recovered. All four have circular bronze suspension rings. All four have net-shaped patterns of triangular notches on their almond-shaped portions. Three of the pendants have a double row of this decoration. Only one of the pendants has a single row of oval notches.

**9.** Bronze bell-shaped medallion with the upper end terminating in a circular loop. A piece of bronze wire is seen threaded through this loop. The lower bell-shaped part looks as if divided into two parts. This area has net-like decoration. It is interesting to note that the globular parts of this pendant and the four almond-shaped pendants are filled with a substance of unknown composition. The same substance was used for filling the area with handle-like protrusions of the round bronze slab.

### ***Beads***

**10.** Twenty one small bronze beads cut from a thin cylindrical tubule. They do not differ in size from the agate beads found in the grave.

**11. 37-130.** Ninety four agate beads. They have a small ball-shaped form and do not differ from one another.

## **Grave 5**

Grave 5 was located east of the previous graves. The shape differed from that of the previous graves. This could be conventionally divided into two parts. The relatively deep portion of the grave did not differ from the previous graves either in shape or structure. This portion was

constructed by digging a deep quadrangular pit in the natural soil layer. It had oval corners. The grave fill was soft yellowish soil with hues of red and contained sporadic groups of stones. No human skeleton was noted in the grave pit. However there was an abundance of grave goods. Except for a mug-type pot, all the pottery vessels were found disposed at the top west end of the grave. Three jugs aligned width wise in the grave were cleared out here. In front of these, i.e. towards the centre of the grave there were numerous bowls. The majority of the bowls have erosion spots on the surface caused by soil and other external factors. The bowls were arranged in a symmetrical order. As to the mug at the lower end of the grave, this was found in an upside-down position. A bronze finger ring was recovered from the grave. The examination of the grave showed that except for the top area with the pots, the remaining part of the grave was badly damaged.

Another interesting feature was cleared out to the left of the top part of the grave with the neatly arranged pots. This feature looked as if it was attached to the grave. The presence of a circular patch of made up ground adjacent to the quadrangular grave pit was identified by the difference in the soil colour which was already evident from the top layers of the grave. Removal of a thin soil layer exposed a group of stones which appeared to be in situ. A jug and a bowl were cleared out from under this cluster of stones. The study of the grave showed this layer of stones represented a sacrifice place. It was constructed a little higher than the grave. However, it was impossible to establish the exact depth of the grave and sacrifice place, because the topsoil layer had been stripped before the archaeological excavations began. However, one fact is clear – the graves in the necropolis were dug at different depths and in different sizes. The burial chamber was 1.3m wide by 1.9m long. On the other hand it became clear that not all of the graves had sacrifice places.

## **Finds**

### ***Pottery***

Except for a single bronze ring, all grave goods consist of only pottery ware.

- 1.** Bowl. Wide-mouthed bowl-type pot with a slightly incurving rim. The upper part of the shoulder is elbow-shaped in relation to the mouth. An elbow-shaped handle connects the upper part of the shoulder and the rim. The base is wide and flat. The pot is brown coloured and made on a potter's wheel. Dimensions: height – 7cm, base diameter – 9cm, body diameter – 25cm, rim diameter – 26cm.
- 2.** Mug-type pot of a brown colour. Tempered with fine sand and thrown on a potter's wheel. The upper portion of the rim narrows slightly inward. Two elbow-shaped protrusions extend laterally from the pot body. The area between these protrusions is decorated with slanting ray-like lines applied by polishing. A single handle connects the rim and the mid-section of the body. The base is wide and flat. Dimensions: height – 6cm, base diameter – 5cm, rim diameter – 11cm.
- 3.** Bowl-type pot of a black-brown colour with a relatively short neck. The rim is rounded slightly outward. There are two holes drilled side by side on the shoulder. The base is oval. Dimensions: height – 6cm, rim diameter – 21cm.
- 4.** Bowl-type pot of a black-brown colour. The shoulder part is elbow-shaped. The neck gets relatively narrow towards the everted rim. Part of the body towards the base is decorated with ray-like lines applied by polishing. The base is relatively flat and wide. Dimensions: height – 5cm, rim diameter – 26cm, base diameter – 7.5cm.
- 5.** Bowl-type pot of a black-brown colour. The rim is wide, the base is flat. The rim is slightly everted. The area above the shoulder is high and girded with a pressed in depression in a stepped form. The shoulder had a lug handle, now missing. Dimensions: height – 8cm, rim diameter – 26.5cm, base diameter – 9cm.

6. Bowl-type pot with a wide mouth and low neck bulging slightly outward. The shoulder had an ear-shaped lug-handle, now missing. The base is flat. Dimensions: height – 7.6cm, rim diameter – 26cm, base diameter – 7.6cm.
7. Bowl-type pot of a black-brown colour similar to other pots in terms of fabric. The shoulder is elbow-shaped from the mid section. This part narrows up to the lower part of the neck. The rim curves outward. The neck-to-shoulder transition is girded with a narrow strip applied by polishing. Dimensions: height – 6.5cm, rim diameter – 23cm, base diameter – 6.5cm.
8. Bowl-type pot of a black-brown colour relatively tall than the other pots. The base is flat. Because of heavy erosion the shape of the mouth part was not identified. Dimensions: height – 9cm, rim diameter – 26cm, base diameter – 8cm.
9. Jug-type pot of a black-brown colour with a globular-body, flat-base and low-neck. The rim curves outward. This part is heavily eroded. Three strips applied by polishing form a pattern around the mid section of the pot. Dimension: height – 22cm, rim diameter – 10cm, base diameter – 8cm.
10. Jug-type pot of a black-brown colour tempered with fine sand and finely crushed grit. The base is flat; the body is globular. The pot has a low neck. The rim is ribbon-flanged outwardly. Dimensions: height – 28cm, rim diameter – 12.6cm, base diameter – 11cm, body diameter – 30cm.
11. Jug-type pot of a black-brown colour recovered from the sacrifice place. The rim is flanged outward. The pot has a relatively narrowing neck. The body is oval-shaped towards the top, the base is flat. Dimensions: height – 23.4cm, rim diameter – 11.6cm, base diameter – 10cm, body diameter – 22.5cm.
12. Jug-type pot of a brown colour. The clay is tempered with coarse sand. The rim is flanged inwardly. The neck is low and narrow. The shoulder is girded with a strip applied by polishing. The pot has a globular body. The part from the mid section of the body is heavily eroded. Dimensions: rim diameter – 13cm, body diameter – 22cm.
13. Bowl-type pot of a brown colour. The body is high; the neck is low. The base is flat; the rim is wide. The neck part narrows inwardly and folds outward towards the rim. The lower part of the neck is banded with a wide belt-like strip applied by polishing. The pot has a downwardly hanging lug handle with a vertical through hole. Dimensions: height – 11cm, rim diameter – 26cm, base diameter – 9cm.
14. Jug-type pot of a brown colour. The lower part of the body is preserved. The upper part is heavily disintegrated. The base is flat. Diameter – 8cm.
15. Bowl-type pot of a brown colour found in the sacrifice place. The base is flat; the neck is high. The mid section of the pot is banded with a strip applied by polishing. The rim is bent slightly outward. Dimensions: height – 9cm, rim diameter – 22cm, base diameter – 7cm.

### *Metal Items*

16. Bronze ring broken into several pieces. This is the only ware other than pottery ware found in Grave 5. Diameter – 2cm.

## **Grave 6**

No surface markers of this grave were identified. Grave 6 (Plate 3-4) was discovered 2.5m west of Grave 5. The burial chamber began to be traced at a depth of 30-40cm during excavations based on 'continuous digging' principle. The grave had a northwest-southeast alignment. The grave fill consisted of black soil containing occasional pebbles. At this level the burial chamber had an irregular rectangular shape; it measured 1.6m in length, 85cm in northwest width and 1.2m in southeast width.

The upper part of the burial chamber was damaged by pipeline construction activities to a depth of 40cm in the northwest end of the grave. The grave produced one pottery vessel. A plate-type

pot in an upside down position was found at 60cm depth in the southeast section of the grave. This pot has a footed base. These pots were removed and cleaning of the burial chamber carried on.

A human skeleton and grave goods consisting of pottery ware were exposed at 170cm depth. The grave measured 1.65m by 1.3m at this depth. In line with the grave orientation the body was buried on its left side with the arms and legs flexed and the head at the northwest end of the grave. The arms were flexed at the elbows and lay stretched towards the face. The hip-bones were flexed on the pelvis at a 90-degree angle, while the leg bones were tightly flexed at the knees and lay stretched towards under the pelvis. The head was directed slightly backward. Skull, leg and other bones of a small animal were noticed in front of the skeleton. These were found jumbled and in disorder. Three pottery vessels were noted aligned in a row between the animal bones and the northeast wall of the burial chamber. One of these black coloured pots was a cooking-type pot, the other two were jug-type pots. Small bovid bones were recovered from the cooking-pot placed against the skeleton's face.

Bone, agate and paste beads were recovered from the area against the arm bone and ribs of the skeleton. In addition, the area in front of the skeleton yielded four bronze buttons and one needle. Eight bronze beads were found around the leg bones and a bronze bracelet on the skeleton's left arm.

## **Finds**

### ***Pottery***

1. Pottery vessels discovered at a depth range of 40cm to 60cm in the burial chamber. These grey coloured pots are heavily disintegrated. Both of them are platter-type pots. One has a survived diameter of 26cm; the diameter of the footed base of the other is 13.5cm.
2. Large, black coloured jug with a pear-shaped body and high narrow neck. The rim curves outward. The lower part of the neck is banded with an incised line. The shoulder is girded with a double incised line. The area between this double line is decorated with a wavy line. The ornament in the area between the incised lines on the neck is symmetrically replicated four times on the shoulder. This ornament consists of five pairs of concentric circles - one located in the centre, the other four symmetrically spaced apart from the central one. There is a dot in the centre of each circle. These circles were impressed on the pot surface with a thin tubular tool before firing. Each of the lateral pairs of circles is connected to the central concentric circle with a straight line applied by polishing. The areas formed between the pairs of circles are decorated with a net-like rhomboid ornament made up of applied polished criss-cross lines. Dimensions: height – 35cm, body diameter – 30cm, mouth diameter – 12cm, base diameter – 10cm.
3. Black coloured elongated body jug with a polished surface. The pot has a narrow high neck and a slightly flanged rim. The neck is separated from the shoulder by a channel-like line. The body is girded with two parallel channel-like lines. Dimensions: height – 24cm, body diameter – 21.5cm, base diameter – 10cm.
4. Black coloured cooking-type pot tempered with coarse sand. The rim curves outward. Thin incised lines form a pattern around the pot shoulder. Below these lines there are notched lines. The base is also decorated with slanting notches along its edge circumference. Dimensions: height – 18cm, body diameter – 27cm, mouth diameter – 21.5cm, base diameter – 7cm.

### ***Metal Items***

5. Bronze needle made of a segment of 4-5mm thick wire having a circular cross section. Length – 12cm.
6. Bronze bracelet recovered from the skeleton's left arm. The gap between the terminals is 4mm. The terminal faces close to the ends have lengthwise and width wise incisions. Diameter – 7.5cm, cross section diameter – 5-6mm. (Fig. 25)

7. Eight small beads made of thin sheet-bronze. Found near the leg bones of the skeleton. One of these is 1cm long, the length of the others is 4-5mm.

8. Four bronze buttons. One is 1.3cm in diameter, the others are 1cm in diameter. Two of the beads, including the large one, have ribbon-shaped thread holes, the other two have circular thread holes. One of the buttons has concentric circles on the surface. Covered with a rust layer, the other buttons could not exhibit any decoration on their surface.

### ***Beads***

9. Sixty four flat disk- or barrel-shaped beads with blind or through holes. The beads are chipped out of dark red, light red or translucent agate.

10. Two small round beads made of bone. Heavily decayed, the beads easily crumbled and could not be retained.

11. Four beads made of glass paste of a black and grey colour. All have circular shapes. The 7mm diameter largest bead has thin incisions on the surface.

## **Grave 7**

This grave was unearthed at 140cm depth in the natural gravel-rich soil layer. No individual was buried in this grave. The burial chamber had an east-west alignment and measured 1.2m by 1m (Plate 5). Six pottery vessels placed on each other were revealed in the grave. The grave fill around the pot consisted of a 30-40cm thick gravel-rich soil neatly overlaid first with a 50-60cm thick river stone layer and then with another gravel-rich soil layer. No surface markers for this grave had been identified. No grave goods except for the listed pottery vessels, were contained in the grave.

### **Finds**

#### ***Pottery***

1. Dark grey coloured, deep-sided bowl-type pot. The interior is brown. The base is narrow, the mouth is wide. The rim is bent slightly outward. The shoulder is decorated with notches. Dimensions: height – 9.5cm, mouth diameter – 13cm, body diameter – 16cm, base diameter – 6cm.

2. Small jug-type pot with a thin everted rim and small twin handles on either side of the shoulder. The pot at this level is girded with an incised channel-like line. The area from the mouth down to the body is painted black and well polished. The portion from the body down to the base is grey coloured and polished. The same part down to the base is decorated with lines applied by polishing. Dimensions: height – 14.5cm, mouth diameter – 10.5cm, body diameter – 17.5cm, base diameter – 6.5cm.

3. Dark grey coloured kuza-type pot with a narrow high neck, bulgy body and flat base. The rim is flanged and folded outwardly. Four successive profile images of Siberian deer are seen depicted around the pot shoulder. Three of these are outlined with incised lines, one with a discontinuous line. The areas within the outlines are filled with dots, implying these were the images of dappled deer. At the same level with deer images on the pot shoulder there is a 4.5cm x 2cm protrusion with spike-like decorations on the surface. The area beneath the deer images is girded with two parallel bulgy lines. The dot was filled with white substance which later came off. Slight traces of this encrustation can still be seen. Dimensions: height – 29cm, mouth diameter – 13.5cm, body diameter – 27cm, neck diameter – 11cm, base diameter – 9cm.

4. Globular-bodied kuza-type pot. The rim is flanged and curves outward. Because of poor firing there are red, brown and black stains on the surface. The shoulder has a protrusion with a smooth surface. A single wavy line runs around the shoulder. Below this line there are seven incised lines. Adjacent to the terminal line, are down-turned triangles made up of several incised lines. There are ten such triangles. One of the triangles around the protrusion on the shoulder is blank. The

adjacent triangle is differently oriented. Starting with this one the triangles gradually diminish in size up to the last one. Viewed from the top, all this ornamental pattern resembles an image of the Sun. Red paint, presumably ochre applied over this decoration may be taken to reinforce the Sun's image. There is a 1.5cm diameter hole on the pot body drilled after firing. Dimensions: height – 25.5cm, body diameter – 23cm, mouth diameter – 11.5cm, base diameter – 8cm.

5. Small, narrow-based cooking-pot of a black colour. Poorly fired. The neck is short; the rim curves outward. The shoulder is encircled with a straight line formed by notches and a channel-like groove. Dimensions: height – 14.5cm, mouth diameter – 15.5cm, body diameter – 18cm, base diameter – 7cm.

6. The lower part of a small pottery vessel. It was this part that was placed in the grave. Although heavily eroded, the area close to the base has retained decoration formed by vertical notches. The survived height – 2cm, body diameter – 6cm, base diameter – 4cm.

### **Grave 8**

The grave was uncovered at 50cm depth and represented a 60cm by 60cm pit containing four pottery vessels. Two of these were bardag-type pots, one was a platter-type pot and one was a cup-type pot. The pots painted black were covered with a film-like deposit of a light grey colour. No human skeleton was discovered in the grave.

#### **Finds**

##### ***Pottery***

1. Large platter-type pot with an outcurving rim. The shoulder has a lug handle. The base is narrow. Dimensions: diameter – 28cm, height – 10cm, base diameter – 8cm.

2. Bardag-type pot with a bulgy body. A handle with a circular cross section connects the rim and shoulder. The body is girded with two channel-like lines. Dimensions: height – 20.5cm, body diameter – 20cm, base diameter – 8cm.

3. Bardag-type pot with a bulgy body. Its form and size could be identified, although the pot was broken into small fragments. Dimensions: height – 17cm, body diameter – 18cm, base diameter – 18cm.

4. Grey coloured cup-type pot. Heavily eroded. Some fragments could be retained. Dimensions: height – 11cm, diameter – 8cm.

### **Grave 9**

The grave was uncovered at 50cm depth and represented a 40cm by 40cm pit containing three pottery vessels. One of these was a kuza-type pot, another one was a cooking-type pot and a third one was a platter-type pot. The platter-type pot appeared to have been already broken when it was placed in the grave. The larger part of this pot was discovered in the grave. The other two pots were broken in places. The grave did not contain a human skeleton.

#### **Finds**

##### ***Pottery***

1. Kuza-type pot tempered with fine sand. The surface is covered with a light grey film-like deposit. The upper section of the body is girded with a channel-like line. The mouth and neck portion of this globular-bodied and flat-based kuza is missing. Dimensions: height – 15cm, body diameter – 16cm, base diameter – 9cm.

2. Small platter-type pot of a black colour. The rim curves outward. The shoulder has a channel-like groove. The pot is completely eroded. Measurements could be made in situ: height – 5.6cm, diameter – 17cm, base diameter – 7.5cm.

3. Fragments of a small cooking-type pot tempered with coarse sand and poorly fired. The outcurving rim is decorated with thumbbed decoration.

### Grave 10

This grave was located approximately 30-40cm south of Graves 8 and 9. The burial chamber was dug at 1.9m depth in the gravel layer and the grave fill consisted of black soil. The burial chamber aligned from east to west measured 2.25m by 1.6m.

A tightly flexed skeleton of an adult male was uncovered in the east facing section of the grave. The skeleton was laid on its right side with the head at the west end of the grave. The hands of the deceased lay stretched towards its chin. No domestic or jewellery items were recorded on and around the skeletal remains.

A group of five pottery vessels was found disposed at the west end of the grave. These represented narrow-necked jug-, kuza-, and cooking-type vessels. The large kuza found in the south-west end of the grave contained ochre. The cooking-type pot in the north-west end of the grave was discovered in an upside down position. This pot contained small bovid bones. It appeared that a lump of meat was put into the pot during the burial.

#### Finds

##### *Pottery*

1. Large kuza-type pot with a bulgy body and narrow base. The rim is encircled with a channel-like groove. The shoulder has an applied net-like ornament. Dimensions: height – 38cm, mouth diameter – 12.5cm, body diameter – 28.5cm, base diameter – 11.5cm.
2. Large, narrow-mouthed jug-type pot tempered with coarse sand and fired to a brown surface. The surface is painted black. The shoulder is encircled with alternate straight and wavy incised lines. Dimensions: height – 38cm, mouth diameter – 16cm, body diameter – 32cm, base diameter – 13cm.
3. Flat, globular body jug-type pot with a flanged rim. The mouth is narrow; the neck is short. The shoulder is girded thin incised lines. Beneath, are two channel-like lines. Dimensions: height – 19.5cm, mouth diameter – 13.5cm, body diameter – 26,5cm, base diameter – 9cm.
4. Large jug-type pot. The neck-to-shoulder transition is banded with an applied moulded belt-like strip. There are three snake's head images symmetrically spaced along the surface of this moulded strip. The upper section of the body is decorated with an encircling net-like ornament. Dimensions: height – 34.5cm, mouth diameter – 11.5cm, body diameter – 27.5cm, base diameter – 10.5cm.
5. Narrow-based cooking-type pot tempered with coarse sand. The rim is funnel-shaped. The shoulder bears incised decoration. The base edge is girded with oblique notches. Dimensions: height – 16.5cm, body diameter – 20cm, mouth diameter – 15.5cm, base diameter – 7.5cm.

### Grave 11

The burial chamber, 70cm by 70cm, was exposed 65cm below the surface. There was a cluster of five closely spaced pottery vessels overlain by a 25-30cm thick layer of river stones and the uppermost layer of the grave's soil fill. No other cultural material or human skeleton was found in the grave. All the pots had surfaces covered with a film-like deposit. These pots were a bardag-type pot, a jug-type pot and three platter-type pots.

#### Finds

##### *Pottery*

1. Dark grey coloured bardag-type pot with a narrow neck and bulgy body. A handle of a circular cross section connects the rim and shoulder of the pot. The body bears two parallel lines. The shoulder is encircled with four channel-like lines. There are polished strips running from the body down to the base. Dimensions: height – 21.5cm, mouth diameter – 8.2cm, body diameter – 20cm, base diameter – 8.5cm.
2. Grey coloured jug-type pot with a bulgy body. The neck is short; the rim is everted. The shoulder is girded with two channel-like lines. There are polished strips running from the body down to the base. Dimensions: height – 23cm, mouth diameter – 14cm, body diameter – 29cm, base diameter – 11cm.
3. Large, dark grey coloured platter-type pot with an everted rim and a lug handle on the shoulder. Dimensions: height – 12cm, diameter – 36.5cm, base diameter – 11cm.
4. Large, dark grey platter-type pot with an everted rim and a lug handle on the shoulder. There are polished strips running from the body down to the base. Dimensions: height – 11.5cm, diameter – 30cm, base diameter – 10cm.
5. Small, dark grey platter-type pot with an everted rim. The pot has no decorative elements on the surface. Dimensions: height – 5cm, diameter – 19cm, base diameter – 5.5cm.

## **Grave 12**

The ground covering the grave contained occasional river-washed stones. The burial chamber aligned northwest to southeast measured 1.85m in length by 1.5m in width and was 0.95cm deep. The grave had a stepped floor. The 20cm wide northwest portion of the floor was 15cm higher than the rest part of the grave. Three large pots standing side by side were found on this elevation. These were bardag-, kuza- and jug-type pots. These pots were grey coloured, while the other pottery vessels were black. Platter-type pots and a single dopu-type pot were found on the lower part of the floor.

One of the platters contained a small jug-type pot with a biconical body. There was an obsidian flake inside this smaller pot.

The body with the head oriented towards north-west was buried in a flexed position on its right side on the platter-type pots. The area behind the skeleton yielded the skull and other bones of a sheep. A bronze belt and iron dagger were seen in the waist region of the skeleton. The neck area of the skeleton produced fifteen beads made of dark red and pale red agate.

## **Finds**

### ***Pottery***

1. Large bardag-type pot. The handle of a circular cross section connects the rim and shoulder. There is a depression on the handle. The shoulder is girded with incised lines. Dimensions: height – 30cm, mouth diameter – 11cm, body diameter - 29cm, base diameter – 11cm.
2. Globular body jug-type pot. There is an applied moulded image of a dog's head on the shoulder. The body is decorated with incised lines. Dimensions: height – 29cm, mouth diameter – 16.5cm, body diameter - 33cm, base diameter – 12cm.
3. Large kuza-type pot with a concave base. The shoulder is decorated with parallel incised lines and wavy lines in between running along the pots circumference. Above, there are two applied moulded images of a ram's head. The opposite side of the pot depicts the image of the swastika. In addition, the body is girded with double channel-like lines. Dimensions: height – 45cm, mouth diameter – 13cm, body diameter – 30cm, base diameter – 12cm.
4. Platter-type pot with a lug handle on the shoulder. Dimensions: height – 4.5cm, diameter – 23.5cm, base diameter – 7cm.
5. Large platter-type pot with no handle or decoration. Dimensions: height – 10cm, diameter – 32cm, base diameter – 12cm.

6. Large platter-type pot with a small handle of a circular cross section vertically attached to the shoulder. Dimensions: height – 8.5cm, diameter – 34cm, base diameter – 11cm.
7. Large platter-type pot with a lug handle on the shoulder. The body down to the base is decorated with a wide polished strip. Dimensions: height – 11cm, diameter – 32cm, base diameter – 11cm.
8. Small platter-type pot with a lug handle on the shoulder. Dimensions: height – 10cm, diameter – 18.5cm, base diameter – 8cm.
9. Large platter-type pot with a small handle of a circular cross section vertically attached to the shoulder. Dimensions: height – 10cm, diameter – 32cm, base diameter – 11cm.
10. Medium-sized platter-type pot. The body down to the base is decorated with wide polished strips. Dimensions: height – 7.5cm, diameter – 22cm, base diameter – 10cm.
11. Dopu-type pot with no decoration. Dimensions: height - 12cm, mouth diameter – 6cm, body diameter – 9cm, base diameter – 5cm.
12. Small jug-type pot with a biconical body. The pot is decorated with vertical strips applied by polishing. Dimensions: height – 7cm, mouth diameter – 7cm, body diameter – 10cm, base diameter – 6cm.

#### ***Metal Items***

13. Belt buckle cut from sheet bronze. The item was probably the buckle of a leather belt. The perforated buckle ends are oval-shaped. The object has no decoration. Dimensions: diameter – 24cm, width – 4.5cm.
14. Iron dagger. The upper part of the blade is banded with a 1.4cm wide bronze slab. The dagger length is 15cm. heavily corroded and broken into small pieces.

#### ***Beads***

15. Fifteen dark and pale agate beads having a circular or flat disk-like shape.

### **Grave 13**

The burial chamber measuring 65cm by 70cm was exposed 1m below the surface. The grave was embedded in the gravel layer to a depth of 25-30cm. Two jugs and one kuza were found on the grave floor. These pots were grey coloured. After these pots had been placed in the grave the burial chamber was backfilled. The grave fill contained only two river-washed stones. One of these was found at the same level with the pots, the other at a depth of 40cm. The grave did not contain skeletal remains or cultural material (Plate 7).

#### **Finds**

##### ***Pottery***

1. Large, globular body jug with a narrow mouth, short neck and narrow base. The shoulder is decorated with slanting notches and five encircling channel-like lines.
2. Globular body kuza with a narrow mouth and narrow base. The pot has decoration formed by three channel-like lines and one wavy line encircling the shoulder. Dimensions: height – 26cm, mouth diameter – 11.5cm, body diameter – 24cm, base diameter – 10cm.
3. Small wide-mouthed, narrow-based jug. The shoulder is banded with a channel-like line. Dimensions: height – 13.5cm, mouth diameter – 10.5cm, body diameter – 16.5cm, base diameter – 6.3cm.

### **Grave 14**

The burial chamber aligned east to west and measuring 1.4m by 0.8m was exposed 0.8m below the surface. The grave fill consisted of soil containing river-washed stones. Five pottery vessels

were discovered in the grave – four of these made a dense group at the west end of the grave, one stood separately to the east of this cluster of pots. The grave did not bear any trace of a human burial, nor did it contain any other cultural material (Plate 8).

## **Finds**

### ***Pottery***

1. Large, narrow-mouthed jug with a globular body. This pot with no surface decoration was heavily eroded and could not be rescued. However, the pot yielded measurements. Dimensions: height – 30cm, mouth diameter – 13cm, body diameter – 31cm, base diameter – 10cm.
2. Small kuza-type pot with no surface decoration and broken into pieces. Dimensions: height – 15cm, mouth diameter – 6.5cm, body diameter – 12.5cm, base diameter – 6cm.
3. Large platter-type pot with a lug handle on the shoulder. Dimensions: height – 11cm, diameter – 28cm, base diameter – 9.8cm.
4. Bowl-type pot with no decoration. Dimensions: height – 5cm, diameter – 11cm, base diameter – 5cm.
5. Large, deep-sided platter-type pot with a lug handle on the shoulder. Dimensions: height – 15cm, diameter – 31.5cm, base diameter – 10cm.

## **Grave 14a**

This grave was identified by an 85cm x 95cm spread of stones on the surface. The grave uncovered at 60cm depth had a floor measuring 70cm by 65cm. Two pots stood side by side in the east corner of the burial chamber. The grave did not bear any trace of a human burial, nor did it contain any cultural material.

## **Finds**

### ***Pottery***

1. Narrow-mouthed jug with a bulgy body. The shoulder is banded with six parallel channel-like lines. Beneath are two more parallel channel-like lines with spike-shaped ornaments in between. Dimensions: height – 24cm, mouth diameter – 11cm, body diameter – 25cm, base diameter – 9cm.
2. Platter-type pot made in a plain style. The pot has no decoration or handle. Dimensions: height – 7cm, diameter – 23cm, base diameter – 7cm.

## **Grave 15**

This earth grave was identified by a spread of small and large river-washed stones covering an area of 1.55m by 1.1m. The burial chamber had an east-west alignment and was exposed 45cm below the surface. Four pottery vessels placed side by side were noted in the central part of the grave. These included one jug-type pot and three platter-type pots. No human skeletal remains were found in the grave. Dimensions of the grave – 85cm by 60cm, depth – 55cm (Plate 9).

## **Finds**

### ***Pottery***

1. Grey coloured jug with applied wavelike decoration on the body and shoulder. The lower part of this pattern is ornamented with parallel incised lines. Dimensions: height – 28.5cm, mouth diameter – 12.5-9.5cm, body diameter – 29cm, base diameter – 10cm.
2. Grey coloured platter-type pot executed in a plain style. The pot has thin walls and a slightly everted rim. The base is broken away. Dimensions: height – 10cm, mouth diameter – 26-23.5cm, body diameter – 27cm.

3. Grey coloured platter-shaped pot with thin walls. Plain style. The pot is highly fragmentary. Dimensions: mouth diameter – 21-18.5cm, base diameter – 6cm.
4. Grey coloured platter-type pot made in a plain style. The pot is highly fragmentary. Dimensions: mouth diameter – 26.5-24cm, base diameter – 8cm.

### **Grave 16**

This grave was located 1.2m west of Grave 15. The burial chamber uncovered at 1.1m depth had an east-west alignment and measured 2.7m by 1.4m. The grave was identified by the yellowish coloration of the upper layers of the grave fill.

Two human skeletons and a range of pottery vessels were exposed at 1.4m depth. Both skeletons were laid on their right sides with the faces oriented to the west. A bronze spearhead, iron spearhead, bronze bracelet and bronze earring were recovered from this grave. The pottery ware retrieved from the burial chamber was represented by jug-, bardag- and platter-type pots. Dimensions of the grave - 2.7m by 1.4m, depth – 1.4m (Plate 10).

### **Finds**

#### ***Pottery***

1. Black coloured jug-shaped pot with thin walls. Part of the pot is missing. The mouth part is at the level of the shoulder. Double parallel lines encircle the pot's shoulder and body. On either side of the jug there is a wave-shaped handle. Dimensions: height – 31.5cm, mouth diameter – 14.5cm, body diameter – 38cm, base diameter – 12.4cm.
2. Black coloured jug-type pot with the major portion missing but later reconstructed. Six parallel lines form a pattern around the body. The shoulder is girded with a wave-shaped pattern. Dimensions: height – 16.5cm, mouth diameter – 11.5cm, body diameter – 24cm, base diameter – 10cm.
3. Black coloured bardag-type pot with a narrow oblong-shaped neck and outcurving rim. A bow-shaped handle connects the mouth and shoulder of the pot. Two lines on the shoulder and four lines on the body run parallel around the pot's circumference. Dimensions: height – 24.5cm, mouth diameter – 4.5cm, neck height – 3.2cm, body diameter – 15.5cm, base diameter – 5cm.
4. Plain, grey coloured bardag-type pot with a circular handle connecting the mouth and shoulder. The rim is outcurving. Dimensions: height – 17.5cm, mouth diameter – 6.5cm, body diameter – 15.5cm, base diameter – 6cm.
5. Plain, black coloured platter-type pot broken into several fragments. The rim is outcurving. Dimensions: height – 10cm, mouth diameter – 28.5-25.5cm, base diameter – 9.2cm.
6. Small, brown coloured jug-shaped pot made in a plain style. The rim is slightly outcurving. Dimensions: height – 11.5cm, mouth diameter – 4.5cm, body diameter – 10cm, base diameter – 3.5cm.
7. Large grey coloured jug with an outcurving rim. The shoulder is decorated with double wavelike lines bordered below with a row of oblique incisions. Other wave-shaped patterns cover the pot's body almost down to the base of the pot. The vessel did not yield measurements.
8. Large grey coloured bardag-type pot made in a plain style. A bow-shaped handle is attached to the mouth and shoulder of the pot. The rim is outcurving. The neck is narrow and long. The pot did not yield measurements.
9. Plain, thin-walled, black coloured platter-type pot with an outcurving rim. The pot did not yield measurements.
- 10-11. Plain, black coloured platter-type pots with straight mouths. The pots did not yield measurements.

### **Grave 17**

Grave 17 was unearthed 1.2m north-west of Grave 16. The burial chamber was covered with three layers of stones which were differently arranged at different depths.

The first layer of stones was exposed 50cm below the surface. This group covered an area 104cm by 50cm. The second layer of stones was unearthed at a depth of 70cm and covered an area 85cm by 50cm. The third layer of stones was reached at 80cm depth and covered an area 65cm by 45cm.

The burial chamber was excavated at 85cm depth beneath the third layer of stones. The burial chamber had a northeast-southwest alignment. One platter-type pot and two jug-type pots were recovered from the grave. Extremely decayed bones were found in the grave. Whether these were human or animal bones could not be established. The burial chamber measured 1m in length and 75cm in width and was 85cm deep. (Plate 11).

## **Finds**

### ***Pottery***

1. Large black coloured jug with two circular handles – one on either side of the body. The body is girded with three parallel incised lines. Dimensions: height – 17cm, mouth diameter – 12-9.5cm, body diameter – 22cm, base diameter – 9cm.
2. Plain, black coloured platter with a small circular handle attached to the rim. The pot was found in a fragmentary state. Dimensions: height – 12cm, mouth diameter – 30-28cm, base diameter – 11.5cm.
3. Small black coloured jug made in a plain style. The rim is outcurving. Dimensions: height – 14cm, mouth diameter – 5.5cm, body diameter – 15cm, base diameter – 6cm.

## **Grave 18**

This grave was discovered at Excavation Site II. The grave was covered with two layers of river-washed stones. The upper layer of stones was exposed 70cm below the surface. The lower layer of stones was uncovered at a depth of 90cm. Beneath this layer of stones were six pottery vessels representing jug-, bardag- and platter-type pots. The grave was damaged, so were the pots recovered from the grave. The grave was 1m long by 85cm wide and 1m deep (Plate 12).

## **Finds**

### ***Pottery***

1. Black coloured jug-type pot found in a fragmentary state. The neck is girded with parallel lines. A circular handle connects the shoulder and body of the pot. Dimensions: height – 30cm, mouth diameter – 12-10cm, body diameter – 27cm, base diameter - .
2. Black coloured bardag-type pot found in a highly fragmentary state. The pot has decoration formed by four parallel lines encircling the body. A circular handle is attached to the mouth and shoulder. The pot did not yield measurements.
3. Light red coloured jug-type pot found in a highly fragmentary state. The pot is made in a plain style. A bow-shaped handle connects the mouth and shoulder. Dimensions: mouth diameter – 11.5cm.
4. Black coloured platter-type pot found in a fragmentary state. A circular handle with a small orifice in the centre is attached to the mouth. The pot is made in a plain style. Dimensions: mouth diameter – 28cm.
5. Two platter-type ceramic pots made in a plain style. Both were found in a highly fragmentary state. The pots did not yield measurements.

## **Grave 19**

This grave was uncovered at 70cm depth 1m west of Grave 18. Seven ceramic vessels representing different types of pottery were recovered from the grave. The majority of these were found in a fragmentary state (Plate 13). Preservation of the human skeleton was extremely poor, therefore only individual parts could be identified. The grave produced bronze jewellery which includes needles, earrings, bracelets, finger rings and pendants. In addition, over 700 differently sized agate beads were recovered from the grave. As stated above, the skeleton's alignment could not be identified because of the extremely poor preservation of bones. The grave was 1.4m long by 1.25m wide and 80cm deep.

## **Finds**

### ***Pottery***

1. Black coloured, thick-walled jug-type pot in a highly fragmentary state. Plain style. Measurements could not be taken.
2. Black coloured bardag-shaped pot with a part of the mouth broken off. A circular handle connects the mouth and shoulder. The shoulder is decorated with parallel lines bordered below with oblique incisions. Dimensions: height – 18.5cm, mouth diameter - , body diameter - , base diameter – 8,5cm, neck height – 5cm.
3. Grey coloured jug with an outcurving rim. The surface is covered with patches of a film-like deposit. Dimensions: height – 18.5cm, mouth diameter – 8.5-6.7cm, body diameter – 17cm, base diameter – 5.5cm.
4. Plain, black coloured platter-type pot with one portion broken away. Attached to the mouth is a small perforated handle. Dimensions: height - , mouth diameter – 31-27cm, body diameter - .
5. Three black coloured platter-type pots in a highly fragmentary state. Measurements could not be taken,

### ***Jewellery***

1. Two bronze triangular-shaped earrings (Figures 23, 24, 30) Needs details of which is which.
2. Two bronze earrings. The upper fastening part is chain-like, the pendent part has the shape of a perforated cone.
3. Two bronze earrings with spiral pendent portions.
4. Two bronze earrings. The fastening portions are missing, the pendent portions are chain-shaped and ring-shaped.
5. Four bronze needles.
6. Two quadrangular thin-walled jewellery items, each with a triangular hole in the centre.
7. Thin triangular-shaped slabs with a triangular hole in the centre.
8. Eight bronze cone-shaped jewellery items.
9. Broken bronze finger ring.
10. Two bronze bracelets.
11. Six hundred and fifty five small agate beads (Figure 21, 22).

## **Grave 20**

This was located 2m west of Grave 19. The grave was found badly disrupted and therefore all the pottery vessels recovered from the grave were in a highly fragmentary state. The pottery ware was represented by jug- and platter-type pots. No human remains were contained in the grave. The grave measured 90cm in length by 70cm in width and was 90cm deep (Plate 14).

## **Finds**

### ***Pottery***

1. Grey coloured thin-walled jug with an outcurving rim.

2. Black coloured thin-walled jug with an outcurving rim.
3. Black coloured thin-walled jug with an outcurving rim. Dimensions: height – 19.5cm, mouth diameter – 8-5cm, body diameter – 15.5cm, base diameter – 5cm.
4. Plain black coloured thin-walled dopu.
5. Black coloured thin-walled platter-type pots. Found in a highly fragmentary state, the pots did not yield measurements.

### **Grave 21**

Found 1m west of Grave 20, this grave was also included in the list of disrupted graves. All the pottery ware recovered from this grave was in a fragmentary state and therefore did not yield measurements. Large quantities of blue coloured beads were found in the grave. Judging by the human bone fragments, shape and characteristics of the burial, this grave was thought to be a child's burial. The skeletal material was disordered and jumbled which made it difficult to identify the skeleton's alignment. The grave was 1.7m long by 1.1m wide and 0.9m deep (Plate 21).

#### **Finds**

##### *Pottery*

1. Two jugs and two platters. All four are completely broken.

##### *Beads*

1. Fourteen agate beads.
2. Five hundred and five small beads made of blue paste.
3. Seventy one small beads made of white paste.

### **Grave 22**

This grave was also found in a disrupted state. For this reason, the skeletal remains found were largely dissociated pieces of bone and the pottery vessels recovered were fragmentary. This made it difficult to establish the skeleton's alignment. The types of the three pots found in the grave could not be identified either. The grave measured 1.3m in length by 0.9m in width and was 1.2m deep (Plate 22)..

#### **Finds**

##### *Pottery*

1. Plain jug-type pot with the mouth part bent outward. Completely broken, the pot did not yield measurements.
2. Plain jug-type pot with the mouth part bent outward. Completely broken, the pot did not yield measurements.
3. Plain jug-type pot. Completely broken, the pot did not yield measurements.

### **Grave 23**

This grave was opened up 1m west of Grave 22 and was also one of the disrupted graves. The burial chamber had an east-west alignment and did not contain human skeletal remains. Three pottery vessels were recovered and all these were in a fragmentary state. The grave measured 0.95m by 0.65m and was 0.75m deep.

#### **Finds**

### **Pottery**

1. Plain, black coloured jug-type pot. Completely broken, the pot did not yield measurements.
2. Plain, black coloured platter-type pot. Completely broken, the pot did not yield measurements.
3. Plain, black coloured platter-type pot. Completely broken, the pot did not yield measurements.

### **Grave 24**

After removing the stone layer at 0.6m depth four pottery vessels were exposed 0.7m below the surface. These were jug-, platter- and churn-type pots. As the grave was in a disrupted state, all the pots were also fragmentary. Of these, only two – the churn- and the jug-type pot yielded partial measurements. The grave aligned east to west did not contain any human remains. The grave was 1.2m long by 0.7m wide and 0.85m deep (Plate 17).

### **Finds**

#### **Pottery**

1. Plain, black coloured butter churn. The shoulder part has a 2.5cm long perforated mammiform protrusion and a square-shaped handle attached beneath. Dimensions: height – 34.5cm, body diameter – 31.7cm, base diameter – 16cm.
2. Plain, black coloured jug-type pot. Completely broken, the pot did not yield measurements.
3. Black coloured jug-type pot with a circular handle on the shoulder. Completely broken, the pot did not yield measurements.
4. Plain platter-type pot. Completely broken, the pot did not yield measurements.

### **Grave 25**

This burial was unearthed 1.2m north-west of Grave 24. The grave produced eight pottery vessels represented by jug- and platter-type pots. The grave had an east-west alignment (Photo 13). Human arm and leg bones were exposed in the east facing section of the grave. Some of the leg bones were found inside a platter-type pot. Three bronze bracelets, one bronze finger ring, one needle and four agate beads were retrieved from the grave. The grave measured 1.4m in length and 0.75m in width and was 0.7m deep (Plate 18).

### **Finds**

#### **Pottery**

1. Black, thin-walled jug made in a plain style. The pot has a rim bent outward. Highly fragmentary. Dimensions: height – 38.5cm, mouth diameter – 28cm, body diameter - , base diameter – 12cm.
2. Grey coloured narrow-mouthed jug with a rim bent slightly outward. The pot has a square handle on its shoulder. The area close to the body is girded with a couple of parallel lines. Dimensions: height – 36.5cm, mouth diameter – 10cm, body diameter – 32cm, base diameter – 10.5cm.
3. Plain, black coloured completely broken jug. Dimensions: height – 25cm, mouth diameter - , body diameter – 26cm, base diameter - .
4. Plain, black coloured platter-type pot with a straight mouth. Dimensions: height – 5cm, mouth diameter – 135cm, base diameter – 7cm.
5. Plain, black coloured platter-type pot with a rim bent slightly outward. Dimensions: height – 5cm, mouth diameter – 23-21.5cm, base diameter – 7.5cm.
6. Plain, black coloured platter-type pot with a small perforated handle attached to the rim. Dimensions: height – 8cm, mouth diameter – 26-24cm, base diameter – 11cm.

7. Plain, black coloured platter with an outcurving mouth. Dimensions: height – 9cm, mouth diameter – 28-26cm, base diameter – 12cm.
8. Plain, black coloured platter with an outcurving mouth. Part of the pot is broken off. Dimensions: height – 10cm, mouth diameter – 28-26cm, base diameter – 10cm.

#### ***Metal Items***

9. Bronze needle with both tips broken.
10. Two bronze bracelets with terminals getting thinner and curving inward (Figure 29).
11. Small bronze finger ring. The ring is intact.

#### ***Beads***

12. Four agate beads.

### **Grave 26**

This burial was uncovered 0.8m below the surface 0.35m west of Grave 25. The burial had an east-west alignment. The grave yielded ten pottery vessels widely disposed across the burial chamber. The human skeleton lay in the central part of the grave. The jaw bone of the skeleton was found at the north end of the burial. The skeleton lay on its right side with the arms and legs flexed and the face oriented to the south. The grave measured 1.45m in length by 0.9m in width and was 0.9m deep (Plate 19).

Analysis of the human jaw suggested that was 20-30 years at death.

#### **Finds**

##### ***Pottery***

1. Black coloured long-necked, narrow-mouthed jug. The pot is thin-walled and made in a plain style. Completely broken. Dimensions: height – 41cm, body diameter – 29cm, base diameter – 15cm.
2. Black coloured long-necked, narrow-mouthed jug. The pot is thin-walled and made in a plain style. Completely broken, the pot did not yield measurements.
3. Plain, black coloured wide-mouthed jug with twin circular handles – each connecting the mouth and shoulder on either side of the pot. Found in a fragmentary state. Dimensions: height – 16cm, mouth diameter – 18.5-16.5cm, body diameter – 24.4cm, base diameter – 9.2cm.
4. Plain, black coloured wide-mouthed jug with a mouth bent outward. Found in a fragmentary state. Dimensions: height – 12cm, mouth diameter – 14.5-12.5cm, body diameter – 16cm, base diameter – 8.5cm.
5. Black coloured thin-walled platter-type pot with a circular perforated handle attached to the outwardly bent mouth. The pot is partially fragmentary. Dimensions: height – 10.5cm, mouth diameter – 31.5-28.5cm, base diameter – 10cm.
6. Black coloured platter-type pot with a circular perforated handle attached to the outwardly bent mouth. The pot is broken. Dimensions: height – 9.2cm, mouth diameter – 35.5-33cm, body diameter – 16cm, base diameter – 11.5cm.
7. Plain, black coloured thin-walled platter-type pot with a mouth bent outward. Dimensions: height – 8.58cm, mouth diameter – 27-24.5cm, base diameter – 9cm.
8. Plain, black coloured thin-walled platter-type pot with a mouth bent outward. Dimensions: height – 8.5cm, mouth diameter – 30-27.5cm, base diameter – 9cm.
9. Black coloured platter-type pot with a small perforated handle attached to the outwardly bent mouth. The pot is broken. Dimensions: height – 8.5cm, mouth diameter – 30-24cm, base diameter – 9cm.
10. Small black coloured thin-walled dopu made in a plain style. The pot is completely broken. Dimensions: mouth diameter – 4.5cm, body diameter – 5.8cm.

## Grave 27

This burial was discovered 0.65m west of Grave 26. The burial had an east-west alignment. The burial chamber was unearthed 1m below the surface after a layer of stones was removed at a depth 0.9m. The grave yielded five pottery vessels represented by jug- and platter-type pots. The burial did not contain any human remains. The grave measured 0.95m in length and 0.7m in width and was 1.05m deep (Plate 20).

### Finds

#### *Pottery*

1. Grey coloured globe-shaped jug. The mouth is at the level of the shoulder. The pot is thin-walled and made in a plain style. Completely broken, the base could have been measured only. Base diameter – 12cm.
2. Plain, black coloured thin-walled platter-type pot with a perforated handle attached to the mouth. The pot is broken across the middle. Dimensions: height – 8.5cm, mouth diameter – 27.5-25cm, base diameter – 8.8cm.
3. Grey coloured platter-type pot with a mouth bent outward. The pot is thin-walled and made in a plain style. Dimensions: height – 8.5cm, mouth diameter – 24-21cm, base diameter – 8cm.
4. Black coloured thin-walled platter with a straight mouth. Much of the pot is missing. Dimensions: height – 11cm, mouth diameter – 28.5-26cm, base diameter – 10.8cm.
5. Grey coloured thin-walled platter with the mouth portion missing. Dimensions: height – 8.2cm, mouth diameter – 22-20.5cm, base diameter – 8cm.

## Grave 28

This grave was discovered beneath Grave 25. A human skeleton was exposed at a depth of 1m below the surface. The skeleton was lying on its left side with the arms and legs flexed and the face directed to the north. One of the arms lay over the skeleton's face. Most of the seven pottery vessels recovered from the grave were found near the skeleton's head. The skeleton's head lay in one of the platters. The majority of ceramic pots from the grave were highly fragmentary. In addition, excavation revealed two bronze bracelets and two snake-shaped items of jewellery connected to each other with a chain. The grave was 1.45m long by 0.95m wide and 0.95m deep (Plate 21).

### Finds

#### *Pottery*

1. Plain, black coloured thin-walled jug with a globular body. The mouth is at the level of the shoulder. The pot was found in a fragmentary state. Dimensions: height – 25cm, body diameter – 33cm, base diameter – 11cm.
2. Plain, black coloured globular body jug. The mouth is at the level of the shoulder. The pot was found in a highly fragmentary state. Dimensions: height – 30cm, mouth diameter - ? , body diameter – 35cm, base diameter – 13cm.
3. Plain, black coloured thin-walled platter with a straight mouth. Completely broken. Dimensions: height – 6.5cm, mouth diameter – 22.5-20.5cm, base diameter – 7cm.
4. Plain, black coloured thin-walled platter. Completely broken. Dimensions: height – 5.5cm, mouth diameter – 35.5-32cm, base diameter – 9cm.
5. Black coloured thin-walled platter with a mouth bent slightly outward. Completely broken. Dimensions: height – 8cm, mouth diameter – 26-23cm, base diameter – 7.5cm.
6. Plain, black coloured thin-walled platter with a handle attached to the mouth. Dimensions: height – 7cm, mouth diameter – 32-28.5cm, base diameter – 9cm.

7. Plain, black coloured thin-walled platter with a straight mouth. Dimensions: height – 8cm, mouth diameter – 35-33cm, base diameter – 10cm.

#### ***Metal Items***

8. Bronze jewellery. Two round comb-shaped items. Both measure 7.4cm in diameter. The rings have chain-like attachments. These objects are assumed to have been used as necklaces (Figure 25).

9. Two ring-shaped bronze bracelets. One is fully ring-shaped, the other has thin cut off terminals. Both are 6.5cm in diameter.

### **Grave 29**

This grave was exposed at a depth of 1.25m beneath Grave 27. A human skeleton was excavated 1.3m below the surface. The skeleton was lying on its right side with the legs and arms flexed and the face directed to the west. No items of weaponry or jewellery were found on the skeleton. Four pottery vessels placed in the grave were found near the skeleton's head at the north-west end of the grave. The pottery recovered represent jug- and platter-type pots. The grave was 1.5m long by 0.95m wide and 1.4m deep.

#### **Finds**

##### ***Pottery***

1. Black coloured thin-walled jug with a mouth bent outward. Six parallel incised lines run around the shoulder. Dimensions: height – 22.5cm, mouth diameter – 13-10.5cm, body diameter – 22cm, base diameter – 7cm.

2. Black coloured thin-walled jug-type pot black paint decorated beneath the mouth and below. These patterns are bordered below with oblique incisions and triangles. The pot was found in a fragmentary state. Dimensions: height – 32cm, base diameter – 9cm, neck height – 6cm.

3. Black coloured jug found in a highly fragmentary state. The shoulder is decorated with two wavy lines. Dimensions: diameter - 16-13cm, base diameter – 7.5cm.

4. Small black coloured, thin-walled platter-type pot made in a plain style. Completely broken, the pot did not yield measurements.

### **Grave 30**

This grave was exposed 0,6m west of Grave 17, Excavation Site I. Twelve pottery vessels were found widely disposed across the grave pit. The head of the skeleton was inside the platter-type pots. The rest of the skeletal remains were found widely scattered in the grave. A bronze dagger and a bone item of jewellery were recovered from near the skeleton. The pots retrieved from the grave largely represented jug- and platter-type pots. The grave was 1.7m long by 1m wide and 0.9m deep.

#### **Finds**

##### ***Pottery***

1. Grey coloured globular body jug. The mouth area is decorated with oblique notches bordered below with wavy lines. Wavy-like lines also form a pattern around the body of the pot. Dimensions: height – 42.5cm, mouth diameter – 15.5-12.5cm, body diameter – 36cm, base diameter – 12.5cm.

2. Black coloured globular body jug. The mouth area is at the level of the shoulder. The body is decorated with parallel encircling lines. The pot has two rectangle-shaped handles – one on each

opposing side. The pot is broken. Dimensions: height – ?, mouth diameter – 16-14cm, body diameter – ?, base diameter – ?.

3. Grey coloured thin-walled jug with a long neck. The pot is decorated with black dots on the neck and two parallel lines on the shoulder. The mouth portion is broken off. Vertical lines in black paint running from the mouth down to the base form another ornamental pattern on the pot. Dimensions: body diameter – 18.5cm, base diameter – 8cm.

4. Black coloured platter with an everted rim and small perforated handle attached to the mouth. Dimensions: height – 12cm, mouth diameter – 29.5-26.5cm, base diameter – 10cm.

5. Black coloured platter with an everted rim and small perforated handle attached to the mouth. Dimensions: height – 8cm, mouth diameter – 25.5-22.5cm, base diameter – 8cm.

6. Black coloured platter with an everted rim and small perforated handle attached to the rim. The pot made in a plain style is broken across the middle. Dimensions: height – 8.5cm, mouth diameter – 25-22.8cm, base diameter – 11cm.

7. Plain, black coloured thin-walled platter with a small perforated handle attached to the rim. The pot is broken. Dimensions: height – 5.8cm, mouth diameter – 23.5-21.5cm, base diameter – 8cm.

8. Plain, black coloured thin-walled platter with a mouth bent outward. The pot is completely broken. Dimensions: height -?, mouth diameter – 24-21.5cm, base diameter - ?

9. Plain, black coloured thin-walled platter with a mouth bent outward. The pot is broken. Dimensions: height -8.5, mouth diameter – 33.5-30cm, base diameter – 10.5cm.

10. Black coloured platter. The base bears a sun-shaped ornamental pattern. The pot is broken. Dimensions: height -7.5, mouth diameter – 26.5-23.5cm, base diameter – 9cm.

11. Plain, black coloured thin-walled platter. The pot is completely broken. Dimensions: height – 10cm, mouth diameter – 29-27cm, base diameter – 11cm.

12. Plain, black coloured thin-walled platter. The pot is broken. Dimensions: height - 6cm, mouth diameter – 25-23cm, base diameter – 8.5cm.

### ***Metal Objects***

1. Bronze dagger. Length – 21.5cm (Figure 28)..

2. Bone pendant. Length – 5cm, diameter – 2cm (Figure 33).

### **Grave 31**

This grave was exposed 1.4m below the surface, 2m south of Grave 18, Excavation Site II. The grave contained only the skull of a skeleton. The skull, facing the south, lay on its right side inside a platter-type pot. There were fifteen pottery vessels widely disposed on the grave floor. The pottery ware represented platter- and bardag-type pots. The grave measured 1.25m in length by 1.1m in width and was 1.6m deep.

### **Finds**

#### ***Pottery***

1. Black coloured bardag-type pot. The mouth is broken away. The area beneath the mouth towards the shoulder is decorated in black paint. The neck, shoulder and body are girded with incised lines. Dimensions: height – 23cm, body diameter – 21cm, base diameter – 10cm, neck height – 5cm.

2. Plain, black coloured thin-walled, narrow-mouthed jug. The pot is highly fragmentary, only the base yielded measurements. Base diameter – 11.5cm.

3. Black coloured, narrow-necked and narrow-mouthed jug. The mouth portion is broken off. The body is decorated with encircling parallel lines. Dimensions: height – 18cm, mouth diameter – 8-6cm, body diameter – 15cm, base diameter – 8cm.

4. Small black jug with a slightly everted rim. Plain, thin-walled. Dimensions: height – 8cm, mouth diameter – 7-5cm, body diameter – 11.5cm, base diameter – 5cm.

5. Plain, black coloured globular-bodied, thin-walled jug. The pot was found in a highly fragmentary state. The mouth is at the level of the shoulder. Dimensions: height - ?, mouth diameter – 14cm, body diameter - ?, base diameter – 10cm.
6. Black coloured platter with twin perforated handles attached to the wave-shaped rim. Dimensions: height – 11.5cm, mouth diameter – 31-28cm, base diameter – 11cm.
7. Plain, black coloured thin-walled platter. Dimensions: height – 5.5cm, mouth diameter – 18-16cm, base diameter – 7cm. The pot is highly fragmentary.
8. Plain, black coloured thin-walled platter. Dimensions: height – 6cm, mouth diameter – 21-19cm, base diameter – 9cm. The pot is highly fragmentary.
9. Plain, black coloured platter with a small perforated handle attached to the rim. Dimensions: height – 6cm, mouth diameter – 28-25cm, base diameter – 8cm.
10. Plain, black coloured thin-walled platter with a small perforated handle attached to the rim. Dimensions: height – 7cm, mouth diameter – 25-23cm, base diameter – 8cm.
11. Plain, black coloured thin-walled platter with a small perforated handle attached to the rim. Dimensions: height – 5cm, mouth diameter – 22-19cm, base diameter – 7cm.
12. Plain, black coloured thin-walled platter. Dimensions: height – 8.5cm, mouth diameter – 31-28cm, base diameter – 9cm.
13. Plain, black coloured thin-walled platter. Dimensions: height – 4.5cm, mouth diameter – 25.5-23.5cm, base diameter – 10cm.
14. Plain, black coloured thin-walled platter with a small perforated handle attached to the rim. Dimensions: height – 9cm, mouth diameter – 29-26cm, base diameter – 9cm.
15. Plain, black coloured thin-walled platter with a small perforated handle attached to the rim. Dimensions: height – 8cm, mouth diameter – 29-26cm, base diameter – 7.5cm.

### **Grave 32**

Grave 32 was an earth grave covered with an irregular scatter of stones. The grave was exposed 1.3m below the surface and measured 1.15m in length by 0.95m in width. The grave fill consisted of a hard substrate formed by the mixture of yellowish soil and water which made it difficult to clear out the grave (Plate 22).

#### **Finds**

Ten pottery vessels were recovered from Grave 32. The pottery ware included a platter, a bardag, 2 jugs, and 6 plates. No other cultural material was contained in the burial.

#### **Pottery**

1. Well executed medium-sized black jug. The wall thickness is 0.8cm. The shoulder is decorated with 2 encircling channel-like lines. The 2cm gap between these lines is girded with a wavelike line. The body has combed decoration. The pot was mended from many pieces. Dimensions: height – 30cm, body diameter – 30cm, mouth diameter – 14cm, neck height – 3.5cm, base diameter – 11.5cm.
2. Black coloured thin-walled (0.4cm) jug tempered with fine sand and well fired. Heavily heat-affected in the process of use. The rim is bent outwards in a semi-circular curve, the upper part is girded with two incised lines; the area between these lines is bulgy. A ram's head is depicted on the shoulder. The image is 5cm long by 2.3cm wide (at the horns' area) and 2cm high. The body is girded with three horizontal parallel channel-like lines. The presence of vertical combed decoration is felt in places on portion of the body close to the base. Traces left by a potter's wheel are vaguely visible on the interior surface. Although the pot was broken, all its 40 fragments were found. Height – 21cm, body diameter – 30cm, mouth diameter – 15.4cm, base diameter – 11cm.
3. Grey fine sand-tempered platter with a perforated lug handle. The mouth portion curves inward, the rim is bent outward. The pot is decorated with incised lines applied vertically from the mouth down to the base. The base is small and has an incised cross-like image. The pot was repaired.

Height – 10cm, mouth diameter – 29cm, neck (mouth) height – 3cm, base diameter – 11cm, wall thickness – 0.8cm.

**4.** Black coloured bardag tempered with fine sand. There are 5 spike-shaped notches in the upper part of the shoulder. A circular handle connects the mouth and shoulder. The upper part of the handle has a protrusion with a 2.2cm diameter cavity on its surface. There are round protrusions close to the point of attachment of the lower end of the handle and a 0.7cm diameter hole between these protrusions. The body is decorated with 11 channel-like lines running the pot's circumference from the point of attachment of the lower end of the handle down to the base. There are 5 spike-shaped patterns in the upper part of the handle and 6 lines on the opposite side. The mouth and shoulder portion of the bardag is decorated with a downwardly directed combed pattern. The surface is well polished. The pot was mended. Height – 24cm, body diameter – 22cm, mouth diameter – 10cm, base diameter – 10cm.

**5.** Grey fine sand-tempered thin-walled (0.7cm) platter with a perforated lug handle. Poorly fired, the pot has black heat-caused stains on the surface. The mouth portion curves inward; the rim is bent outwards in a semi-circular curve. There is vertical combed decoration on the exterior surface of the vessel. The base is flat. The pot was highly fragmentary but yielded measurements. Height – 7cm, mouth diameter – 23.5cm, base diameter – 9cm, neck height – 3cm.

**6.** Poorly fired black plate tempered with fine sand. The mouth portion curves inward; the rim has an outward extending flange. The pot has a small perforated handle with a slightly raised upper end. Traces left by a potter's wheel are clearly seen on the interior surface. There are wide zigzag patterns on the base surface. The exterior of the pot is polished. The pot is fragmentary (24 pieces) but complete. Height – 7cm, mouth diameter – 22.4cm, base diameter – 8cm, shoulder height – 3cm.

**7.** Poorly fired fine sand-tempered black thin-walled (0.7cm) plate with a perforated handle. The mouth portion curves inward; the rim is flanged outward. The exterior from the mouth down to the base is decorated with a Sun-shaped pattern. The pot is fragmentary (9 pieces) but complete. Height – 6cm, mouth diameter – 21.3cm, base diameter – 8cm, shoulder height 3cm.

**8.** Large well fired plate tempered with fine sand. The mouth portion curves inward; the rim has an outward flange. The upper end of the perforated lug handle is somewhat raised. The exterior surface from the mouth down to the base is decorated with a Sun-shaped pattern. The pot is fragmentary (14 pieces) but complete. Height – 8cm, mouth diameter – 31cm, base diameter – 10cm, shoulder height 2.5cm, wall thickness – 0.8cm.

**9.** Seven fragments of a small, grey plate tempered with fine sand. The wall thickness is 0.7cm. The rim is bent outwards in a semi-circular curve. The tip of the 3cm wide single lug handle is somewhat raised. The neck is girded with thin horizontal incised lines. The exterior surface from the mouth down to the base has vertical combed decoration. Height – 6.5cm, mouth diameter – 18.5cm, base diameter – 8cm, shoulder height – 2.5cm.

**10.** Small, well fired grey plate tempered with fine sand. The pot is fragmentary but complete. The wall thickness is 0.7cm. There are traces of a potter's wheel on the interior surface. The mouth portion curves inward; the flanged rim is bent outwards in a semi-circular curve. There is a 2cm wide channel-like groove extending around the outer circumference of the mouth. The exterior surface has applied combed decoration. The 3cm wide perforated lug handle gets thinner and curves upward towards the end. Height – 7cm, mouth diameter – 20cm, base diameter – 8cm, shoulder height – 2.5cm.

### Grave 33

This was an earth grave exposed 1.25m below the surface. The grave was similar to those unearthed earlier. The grave was covered with three layers of stones. The grave fill consisted of a hard substrate formed by the mixture of yellowish clayey soil and water which made it difficult to clear out the grave (Plate 23).

### Finds

Two pottery vessels and bone fragments were recovered from Grave 33. The pottery ware included a bardag and a plate. No other cultural material was contained in the burial.

### **Pottery**

1. Well executed, black thin-walled (0.7cm) bardag tempered with fine sand. The rim is semi-circularly outcurving. The circular handle was folded separately and then fixed to the surface. The handle connects the neck and shoulder. The pot surface is polished and has vertically applied vertical combed decoration. The pot is fragmentary but complete, therefore its measurements could be taken in situ. The number of fragments is 77. All were retained. Height – 28cm, body diameter – 31.5cm, mouth diameter – 11cm, base diameter – 11cm, handle diameter – 6.5 x 2.5cm.

2. Black coloured polished plate tempered with fine sand. The mouth portion of the plate is bent outwards in a semi-circular curve. The neck, 2.5cm beneath the mouth is banded with a channel-like groove. The pot has a single perforated lug handle with the upper end curving upwards. The pot is fragmentary but complete, therefore its measurements could be taken in situ. The number of fragments is 13. All were retained. Height – 7cm, mouth diameter – 22.6cm, base diameter – 7.8cm, shoulder height – 3cm. Handle size: 4.5 x 3.5cm. Wall thickness – 0.8cm.

## **Grave 34**

Grave 34 was hit at a depth 1.1m. It measured 1.82m in length east-west by 1.32m in width north-south. This was also an earth grave with a stone covering consisting of two rows of river stones. The burial chamber was rectangular in shape and had a fill consisting of clayey soil which could easily be distinguished from the surrounding substrate. The body lay in a semi-crouched position on its right side at the east end of the grave. All the accompanying grave goods were placed in the west facing section of the grave, i.e., by the top of the skeleton (Plate 24).

### **Finds**

The pottery ware recovered from the grave included a jug, dopu, bardag, four jugs and two bowls. No other cultural material was contained in the burial.

### **Pottery**

1. Medium-sized, dark grey coloured jar with an elongated body, long neck and narrow base. The pot is well executed. The shoulder is girded with three parallel bulgy lines with a 3.5cm gap in between. There are bulgy lugs, 4 x 1.5cm in size, above the 2<sup>nd</sup> bulgy line. The plain polished rim is bent outwards in a semi-circular curve. The pot is intact. Height – 55cm, body diameter – 37cm, mouth diameter – 17cm, base diameter – 13.5cm.

2. Large grey coloured jug has bulgy lines extending around its body and shoulder. There is a 4 by 4cm moulded lug applied slantwise above the bulgy line on the shoulder. The tip end of the lug is rounded. The rim is bent outwards in a semi-circular curve. The pot is well executed and intact. Height - 27.5cm, body diameter – 30cm, mouth diameter – 14cm, base diameter – 11.5cm.

3. Medium-sized, well executed grey coloured jug with a globular body. There are 4 incised lines running around the shoulder. The pot has also combed decoration from the shoulder down to the base. The neck is banded with hardly visible incisions. The rim is bent outwards in a semi-circular curve. The pot is intact. Height – 26cm, body diameter – 13cm, base diameter – 9cm.

4. Fragments of a medium-sided black coloured jug tempered with fine sand. The pot bears traces of great heat on the surface. The rim is bent outwards in a semi-circular curve. There is a pressed in line extending around the upper part of the rim. The shoulder is banded with two parallel notched lines with a 1.5cm gap in between. The distance between the neck and the notched line is 1.8cm. The wall thickness is 0.5cm. The body has horizontal combed decoration. The base is

decorated with a circular pattern with notches around its edge. The pot is broken with the number of fragments totalling 35. Mouth diameter – 16cm.

5. Large black bowl with a footed base and perforated semi-circular handle attached to the rim. The handle is 4cm by 4cm; the diameter of the hole is 1.4cm. The pot tempered with fine sand is well executed and has a polished surface. The shoulder is decorated with a 0.4cm wide channel-like groove. Below the mouth are four 0.4cm wide grooved lines spaced at 2.2cm distance from each other. The pot is intact. Height – 9cm, mouth diameter – 26.5cm, base diameter – 10.5cm, base height – 0.6cm.

6. Black coloured find sand-tempered bowl with a slightly everted rim. The body is girded with a single pressed in channel-like groove. Mended from pieces, the pot is complete. Height – 6cm, body diameter – 12cm, mouth diameter – 12cm, base diameter – 5cm.

7. Poorly executed grey coloured thin-walled (0.4cm) dopu tempered with sand. The rim is bent outwards in a semi-circular curve. The shoulder is girded with two parallel lines. There are visible traces of a potter's wheel on the interior surface. The exterior surface is polished. The pot is broken; the number of survived fragments is 30. Height – 8.5cm, body diameter – 10cm, mouth diameter – 6.5cm, base diameter – 4.5cm.

8. Body and base fragments of a black coloured bardag-type pot. The exterior surface is polished. The wall thickness is 0.8cm. Base diameter – 11cm.

### Grave 35

Grave 35 was an earth grave exposed 60cm below the ground surface under a single distorted layer of stones. The grave measured 1.9m in length and 1.3m in width. The yellow clayey grave fill was hard to dig. The burial rites performed for this grave were rather different. The body was laid in the grave on its back. Nine small river stones were placed around the head of the deceased. This could possibly be related to primitive religious beliefs. The group of stones around the head may be interpreted as an eternal repository for the deceased's soul. The lower jaw was missing; the skull was completely flattened. The tibia and leg bones below the knees were also missing. The flattened skull and the absence of lower extremities below the knees suggest the individual was purposefully killed before being buried. The disarticulated skeleton was 1.15m long. It was assumed that the grave goods were placed first in the grave during grave pit preparation, then the body of the deceased was brought and laid stretched out in the grave. That's the reason why two of the plates were found under the skeleton. One large jug was found placed higher than the rest of the grave goods. This jug stood on the right side of the skeleton with its base at the level of the mouths of other pots. The grave pit height was 52cm (Plate 25).

### Finds

The grave goods recovered from the burial included 4 jugs, 4 plates, a bardag and a bronze needle.

### Pottery

1. Poorly executed grey coloured jug tempered with fine sand and fired at an unstable temperature. It is large and has a narrow and long neck. The rim is bent outwards in a semi-circular curve. The pot is decorated with channel-like grooves – two on the neck and three on the body. The pot is broken but complete. All the measurement could be taken in situ. Height – 50cm, body diameter – 32cm, mouth diameter – 13cm, base diameter 15.5cm. The number of fragments is 12. All have been retained.

2. Fragments of a poorly fired black jug tempered with fine sand. It has thin walls (0.5cm) and a globular body. The pot made in a plain style is badly preserved. Height – 22.5cm, body diameter – 25cm, base diameter – 14cm. The number of fragments is 89. All have been retained.

3. Fragments of a small black jug-type pot tempered with fine sand and poorly fired at an unstable temperature. The pot heavily affected by great heat completely lost its quality. The pot is plain.

Height – 8.5cm, body diameter – 11.5cm, base diameter – 5cm, mouth diameter – 6cm. The number of fragments is 8. All have been retained.

4. Mouth and body fragments of a poorly fired black jug-type pot tempered with fine sand. The rim is bent outwards in a semi-circular curve. The body is banded with a 1.5cm wide bulgy, belt-like rib. The number of fragments is 8. All have been retained.

5. Fragments of a poorly fired black thin-walled (0.6cm) bardag-type pot tempered with fine sand. A single circular-shaped handle connecting the mouth and shoulder is 7cm by 2.3cm in size. The neck is long and bent outwards towards the rim in a semi-circular curve. The pot is decorated with three parallel channel-like grooves encircling the body. Three more such grooves form a pattern around the neck. Already cracked, the pot fell apart into fragments during cleaning. However, the pot was complete and yielded measurements in situ. Height – 25cm, body diameter – 26cm, neck height – 4.5cm, mouth diameter – 9cm, base diameter – 11.5cm, handle height – 7.5cm.

6. Fragments of a poorly fired black thin-walled (0.5cm) plate-type pot tempered with fine sand. The rim is slightly outcurving. The pot was made in a plain style. Although broken, the pot yielded measurements. Mouth diameter – 21cm, height – 7cm, base diameter – 7.5cm. The number of fragments is 30. All have been retained.

7. Fragments of a poorly fired grey thin-walled (0.8cm) plate tempered with fine sand. The mouth is folded inward; the rim is bent outwards in a semi-circular curve. The pot with a polished surface completely lost its quality because of the effect of great heat. Height – 10cm, mouth diameter – 23cm, shoulder height – 3cm, base diameter – 10cm. The number of fragments is 19 and they represent a complete pot. All have been retained.

8. Fragments of a well fired black plate-type pot tempered with fine sand. The wall thickness is 0.8cm. The surface is polished and decorated with a Sun's image from the mouth down to the base. The area immediately above the base is banded with an encircling incised line. The mouth is folded inward; the rim is straight with an outwardly directed flange. The plate is heavily heat affected. Height – 7cm, mouth diameter – 23.5cm, base diameter – 9cm, shoulder height – 3cm. The number of fragments is 42 and they represent a complete pot. All have been retained.

9. Fragments of a poorly fired grey plate tempered with fine sand. The shoulder has a 2.5cm wide pressed in line extending around its circumference. The mouth is folded inward; the rim is bent outwards in a semi-circular curve. Height – 9cm, mouth diameter – 31cm, base diameter – 10cm, shoulder height – 2.5cm. The number of fragments is 48 and they represent a complete pot. All have been retained.

### ***Metal Objects***

10. Bronze needle with a pointed tip and rear threading eye. Slightly bent in the middle, the object is fully preserved. Length – 12cm.

## **Grave 36**

Grave 36 was located 2.28m away from Grave 35. It was exposed at 60cm depth beneath a layer of stones forming the grave covering. Like all other graves this grave had a fill consisting of hard and compact yellowish soil. This grave differed from the others by its small size. The feature was 85cm long north to west and 65cm wide. All the human bones found in the grave were so decayed that were not visible. Taking into account the small size of the grave and bones, it was assumed that this was a child burial (Plate 26).

### **Finds**

The excavations recovered 4 jugs, 2 plates, 1 bronze finger ring, 18 red agate beads, 80 paste beads and 1 oblong-shaped white cornelian bead. All the pottery fragments come from complete vessels.

### ***Pottery***

1. Fragments of a poorly fired grey sand-tempered jug. The wall thickness is 0.9cm. A circular-shaped handle connects the mouth and shoulder. On the opposite side of the pot, attached to the shoulder is a lug handle, 4.2 x 2cm in size. The central part of this lug is circular and gutter-shaped with three round cavities on either side of the groove. There is a circular hole drilled on the shoulder. The pot is undecorated. Although broken, the fragments represent a complete pot, therefore the measurements could be taken. Height – 26cm, body diameter – 31.5cm, mouth diameter – 13cm, base diameter – 11.5cm.
2. Fragments of a poorly fired grey jug-type pot tempered with sand. The pot made in a plain style has thin-walls (0.7cm) and a long neck. Height – 22cm, body diameter – 26.5cm, mouth diameter – 10.5cm, base diameter – 11cm, neck height – 3.5cm.
3. Fragments of a medium-sized poorly fired black jug tempered with sand. The pot has a globular body, long neck and thin walls (0.4cm). The rim is bent outward in a semi-circular curve. Three parallel horizontal incised lines form a pattern around the shoulder of the pot. Height – 30cm, body diameter – 10.5cm, base diameter – 10.5cm, neck height – 6cm.
4. Small, poorly fired grey thin-walled (0.4cm) jug tempered with fine sand. The rim is bent slightly outward in a semi-circular curve. The pot has no decoration. Height – 8cm, body diameter – 11cm, base diameter – 5cm, mouth diameter – 5cm.
5. Poorly fired grey plate-type pot tempered with fine sand. The wall thickness is 0.8cm. The pot has a perforated handle attached to the lower part of the shoulder. The upper end of the handle is slightly upcurving. The pot surface is polished. The lower section of the body is decorated with encircling incised lines. Height – 10.5cm, mouth diameter – 26cm, base diameter – 8cm, handle size – 3.5cm by 1.5cm.
6. Poorly fired grey thin-walled (0.6cm) plate tempered with fine sand. The rim is slightly outcurving. The pot was made in a plain style. The surface is polished. Height – 8cm, mouth diameter – 25.5cm, base diameter – 9cm.

#### ***Metal Objects***

7. Bronze round finger ring.

#### ***Beads***

8. Small paste beads and elongated circular agate beads. 18 beads are made of red agate, 80 beads are made of paste and 1 bead is made of an elongated piece of white agate.

### **Grave 37**

Grave 37 was uncovered 98cm below the surface. It was an earth grave covered with stones. The grave measured 165cm in length by 98cm in width. Similar to other burials, the grave fill consisted of yellow hard compact clayey soil covered with two layers of river-washed stones. The grave was that of an adult. The body was buried on its right side with the back against the north-east wall of the grave pit. The arms were flexed at the elbows and stretched upwards towards the face (Plate 27).

#### **Finds**

The grave goods consisted of a jug and bowl placed near the head of the skeleton at the north end of the grave. One more large jug was found in the south-west corner of the grave. No other artefacts were contained in the grave.

#### ***Pottery***

1. Black coloured wide-mouthed jug. The pot is decorated with slanting notches encircling the shoulder and three parallel channel-like lines running below. The base is ornamented with notches

resembling the Sun. Height – 23cm, mouth diameter – 17cm, body diameter – 26cm, base diameter – 9cm.

2. Black coloured polished jug with a long neck and globular body. Heavily eroded some of the fragments were not preserved. The shoulder is girded with a channel-like line. All the measurements were taken in situ. Height – 19.5cm, body diameter – 26cm, mouth diameter – 12cm, base diameter – 8.5cm.

3. Well executed black bowl tempered with fine sand. The rim is slightly flanged. The shoulder has an encircling channel-like line. Height – 9cm, body diameter – 20cm, mouth diameter – 16.5cm, base diameter – 7cm.

### Grave 38

Grave 38 was an earth grave with a covering consisting of two layers of stones. The grave measured 1.45m in length east-west and 94cm in width north-south. The grave unearthed 1m below the ground surface had a very peculiar shape. It was rectangular and had three jugs placed at its top west end. The pots were aligned against the west wall in the following order: a large jug, medium-sized jug and small jug. East of and adjacent to the small jug was a medium-sized dopu lying on its side. Several platters stood side by side in the central part of the grave. The skeleton found in the grave lay stretched on the platters. The body was buried in a partially flexed position on its left side. There was a small jug placed against the ribcage of the skeleton. Two bronze earrings were cleared out in the ear region and one bronze bracelet near the right arm of the skeleton. In addition, a bronze needle and agate beads were retrieved from the grave. The skeleton appeared to be that of an adult woman (Plate 28).

### Finds

The burial produced 4 jugs, 4 platters, a dopu, bronze needle, bronze bracelet, 2 earrings and 16 agate beads.

### Pottery

1. Large dark grey jug with a long narrow neck. The pot tempered with fine sand is well executed. There are two ribbon-shaped handles attached to the body. The base is narrow. The shoulder is decorated with channel-like lines and a net-shaped ornament. Each handle has a swastika image on its exterior surface. Body diameter – 38cm, mouth diameter – 11cm, base diameter – 12cm.

2. Black jug with a flat rim and footed base. The upper part of the mouth has 2 channel-like grooves extending around its outer circumference. The pot has two ribbon-shaped handles attached to the shoulder. There are two applied moulded decorations between the handles: a rectangular perforated appliqué on one side and a ram's head appliqué on the other. Two channel-like lines and triangles made up of notches in the area between these lines form a pattern around the shoulder of the pot. Height – 23.5cm, body diameter – 30.5cm, mouth diameter – 18.5cm, base diameter – 13cm.

3. Well executed black jug tempered with fine sand. The rim is bent outward in a semi-circular curve. The pot has a globular body bearing marks of erosion. The shoulder and body are girded with channel-like lines. Height – 18cm, body diameter – 20cm, mouth diameter – 10cm, base diameter – 9.5cm.

4. Small, well executed biconical jug tempered with fine sand. Undecorated. Height – 9cm, body diameter – 11cm, mouth diameter – 6.3cm, base diameter – 5cm.

5. Dark grey coloured dopu with an oblong body. Well executed, undecorated, intact. The rim is bent outward in a semi-circular curve. Height – 13cm, mouth diameter – 6.6cm, body diameter – 8.5cm, base diameter – 4.3cm.

6. Well executed dark grey platter tempered with fine sand. The mouth is bent inward; the rim is slightly flaring. A lug handle is vertically applied to the body. The surface is polished. The pot was reconstructed. Height – 7.8cm, mouth diameter – 25cm, base diameter – 10cm.

7. Well executed dark grey platter tempered with fine sand. The mouth is bent inward; the rim is slightly outcurving. A lug handle is vertically applied to the body. The pot was reconstructed. Height – 7.8cm, mouth diameter – 25cm, base diameter – 10.5cm.

8. Well executed dark grey platter tempered with fine sand. The mouth is bent inward; the rim is slightly outcurving. Handleless and undecorated. The pot was reconstructed. Height – 8cm, mouth diameter – 26cm, base diameter – 11cm.

9. Well executed dark grey platter tempered with fine sand. The mouth is bent inward; the rim is slightly outcurving. Handleless and undecorated. The pot was reconstructed. Height – 10cm, mouth diameter – 27.5cm, base diameter – 11cm.

### ***Metal Objects***

10. Needle made of a segment of bronze wire. Length – 16cm.

11. Small bracelet made of thin bronze wire having a circular cross section. The terminals of the bracelet nearly meet leaving a small gap. Diameter – 4.5cm.

12. Two earrings made of thin bronze wire having a circular cross section. The ends of the earrings meet but not overlap. Diameter – 2 x 1.5cm.

### ***Beads***

10. Sixteen beads made of red agate. All but one are elongated pear-shaped. One is flat and disk-shaped. Made by a chipping technique.

## **Grave 39**

Grave 39 was a stone covered earth grave measuring 2.05m long east-west and 1.1m wide north-south. This elongated rectangular-shaped grave was unearthed at a depth of 95cm below the surface. The grave was embedded in a gravel-rich soil layer; after the body and grave goods had been placed in the grave it was backfilled with a special mixture of yellow clayey soil and water and then covered with river-washed stones.

The body was buried in a semi-crouched position on its right side in the central part of the burial chamber. A wide-mouthed jug was seen at the top end in the north-west corner of the grave and adjacent to it against the skeleton's face was a platter. Another platter was revealed against the ribcage of the skeleton. The hands of the deceased were criss-crossed and lay inside this platter. The left elbow and the left knee lay close to each other with a cup placed between them. Other grave goods – a bardag, jug and platter were found at the bottom end in the east facing section of the grave (Plate 29).

### **Finds**

The grave yielded 2 jugs, 3 platters, a bardag, cup, bronze finger ring and bronze needle.

### ***Pottery***

1. Dark grey coloured jug with a narrow base, wide mouth and slightly outcurving rim. The portion of the pot from the rim down to the shoulder has a stepped configuration. The pot has an elongated body and two perforated handles. The area from the body up to the rim is girded with a wide channel-like groove. The tip end of the semi-circular handle attached to where the shoulder meets the body is accordingly raised upward. Height – 17cm, body diameter – 20cm, mouth diameter – 16.5cm, base diameter – 11cm.

2. Dark grey coloured jug with a globular body. The shoulder-to-neck transition is narrow and gently flares into a semi-circular curve towards the rim. The shoulder is decorated with two encircling channel-like grooves and a wavy line between them. Height – 26cm, body diameter – 28.5cm, mouth diameter – 14cm, base diameter – 11cm.

3. Plain, well executed black platter tempered with fine sand. With the rim bent slightly outward, the mouth portion curves inward. The pot has a polished surface. Height – 8cm, mouth diameter – 27.5cm, base diameter – 9cm.
4. Well executed, fine sand-tempered black platter. The mouth portion curves inward; the rim bends slightly outward. The pot has a single lug handle horizontally attached to its shoulder. The surface is polished. Height – 7.5cm, mouth diameter – 27cm, base diameter – 9cm.
5. Well executed, dark grey platter tempered with fine sand. Similar to other platters this one has also an incurving mouth with a rim bent slightly outward. There is a single lug handle on the pot's shoulder. The tip end of the handle is slightly raised. Height – 6cm, mouth diameter – 28cm, base diameter – 10cm.
6. Large dark grey bardag with a globular body and long narrow neck. The shoulder-to-neck transition is narrow and gently flares into a semi-circular curve towards the rim. A single handle having a circular cross section connects the rim and shoulder. The shoulder is decorated with an encircling channel-like groove. Height – 29cm, body diameter – 30cm, mouth diameter – 11.5cm, base diameter – 13cm.
7. Poorly fired cup-type grey pot. The mouth section is wide; the body in the mid-section (handgrip section) is narrow and widens towards the base. Height – 8cm, mouth diameter – 5.5cm, mid body section diameter – 4cm, lower body section diameter – 7cm, base diameter – 3cm.

#### ***Metal Objects***

8. Fragment of a needle made of thin bronze wire.
9. Fragments of a ring made of bronze wire having a circular cross section. Diameter – 3cm.

### **Grave 40**

This grave was unearthed at a depth of 1.1m below the surface. The burial chamber was 2.15m long east-west and 1.6m wide north-south. This was a stone-covered earth grave. The grave was covered with two layers of river-washed stones. The grave fill was distinguished from the surrounding substrate by its hardness.

The burial rites performed for this grave were rather peculiar. The body was buried in a flexed position in the east facing section of the grave. The knees, tightly flexed were drawn up close to the chest; the arms were also fully flexed and rested on the chest. The skeleton was lying on its right side with the face turned to the south. The skeletal remains of a small bovid were found in the area behind the skeleton, i.e. in the north facing section of the burial chamber. At the top west end of the burial chamber there were two rows of platters – three in each row, and further up at the westernmost end of the burial chamber there were two jugs - one in the north and the other in the south corner of the burial chamber. All the grave goods were disposed at the top end, i.e. in the west facing section of the burial chamber (Plate 30).

#### **Finds**

The grave produced 6 platters and 2 jugs. No other cultural material was contained in the grave.

#### ***Pottery***

1. Large grey jug with a rim bending outward in a semi-circular curve. The pot has a globular body, narrow neck and narrow base. The shoulder is decorated with parallel wavy lines. Height – 38cm, body diameter – 33cm, mouth diameter – 15cm, base diameter – 11cm.
2. Well executed black coloured jug tempered with fine sand. The pot has a globular body, narrow mouth and narrow base. Five channel-like grooves and a net-shaped ornament form a pattern around the shoulder of the pot. The shoulder is also decorated with a zoomorphic appliqué in the

form of an animal head. Height – 23cm, body diameter – 29cm, mouth diameter – 12cm, base diameter – 10cm.

3. Large black coloured platter with a flanged rim. The pot has a handle horizontally attached to the shoulder. Height – 9cm, mouth diameter – 29cm, base diameter – 8.5cm.

4. Large well executed flange-rimmed black platter tempered with fine sand. Height – 7.6cm, mouth diameter – 27cm, base diameter – 9cm.

5. Large well executed flange-rimmed black platter tempered with fine sand. There is a single lug handle horizontally attached to the pot's shoulder. Height – 9.5cm, mouth diameter – 25.4cm, base diameter – 6cm.

6. Large well executed black coloured platter tempered with fine sand. The pot has a flanged rim outwardly extending into a semi-circular curve. The lower body section is decorated by polishing. Height – 6cm, mouth diameter – 27cm, base diameter – 9cm.

7. Large well executed black coloured platter tempered with fine sand. The pot has a rim outwardly extending into a semi-circular curve. The interior surface of the pot is decorated with lines cross-crossing deep traces of a potter's wheel. Height – 10cm, mouth diameter – 33.5cm, base diameter – 10cm.

8. Large well executed flange-rimmed black platter tempered with fine sand. There is a single lug handle horizontally attached to the pot's shoulder. Height – 7.5cm, mouth diameter – 25.5cm, base diameter – 8cm.

#### **Grave 41**

This grave was unearthed 1.15m below the surface. The grave located 1.4m south-west of Grave 40 measured 2.4m in length north-south and 1.3m in width east-west. The grave had a stone cover. The mortuary practice used for this burial is worthy of particular attention. The skeleton was found lying in a flexed position on its left side with the hands drawn up and resting on the jaw. The grave goods were placed at the head end of the skeleton, 40cm north of the skull, and consisted of 4 neatly lined up jugs. The grave goods were placed on the north side of the burial chamber. Except for a few agate beads lying around the skeleton, the grave did not yield any other cultural material. Small bovid bones were found on the south of the jugs (Plate 31).

#### **Finds**

Grave 41 produced 4 high quality jugs and 6 agate beads.

#### **Pottery**

1. Well executed black jug tempered with fine sand. The pot has a globular body and a rim bent outwards in a semi-circular curve. The shoulder is decorated with channel-like lines and notches. The pot is intact. Height – 18cm, body diameter – 20.4cm, mouth diameter – 15.8cm, base diameter – 9cm.

2. Well executed black jug tempered with fine sand. The pot has a narrow neck and a rim bent outwards in a semi-circular curve. The shoulder is decorated with channel-like lines and triangles within these lines. The pot is intact. Height – 22cm, body diameter – 21.6cm, mouth diameter – 11.5cm, base diameter – 9cm.

3. Well executed black jug tempered with fine sand. The pot has a globular body and a narrow base. The narrow neck extends outward into a semi-circular curve. The shoulder is decorated with channel-like lines. The pot is intact. Height – 15.5cm, body diameter – 16.6cm, mouth diameter – 10.5cm, base diameter – 7.5cm.

4. Large, well executed black jug tempered with fine sand. The pot has a wide body and a flanged rim. The shoulder and the base edge are decorated with notched patterns. Height – 8.5cm, body diameter – 13.6cm, mouth diameter – 11.5cm, base diameter – 5.5cm.

### ***Beads***

5. Six beads chipped out of translucent agate.

### **Grave 42**

This was a stone-covered earth grave exposed at 95cm depth. The grave measured 2.05m in length north-south and 1.4m in width east-west. The length of the skeleton buried in a semi-flexed position on its right side was 1.5m. The position of the deceased in this grave is of peculiar interest. The hands of the skeleton lying in a partially flexed position on its right side rested on the skeleton's chest. The body was laid out on a single platter. Two jugs and a platter were placed at the head end, i.e. on the south-east side of the burial chamber. Animal bones were noted to the north of the jugs.

The human bone was identified as that of an adult male.

Bone from the grave produced a radiocarbon date of Cal BC 1500 to 1360 AND Cal BC 1360 to 1320 (Beta 218210).

### **Finds**

Grave 42 produced 2 jugs and 2 platters. No other cultural material was contained in the grave.

### ***Pottery***

1. Large well executed grey jug tempered with fine sand. The mouth is bent outwards in a semi-circular curve. The vessel has a globular body, narrow neck and narrow base. The shoulder is girded with parallel wavelike lines. Height – 33.5cm, body diameter – 31cm, mouth diameter – 14cm, base diameter – 12cm.
2. Globular body black jug with a narrow-mouth and narrow base. The pot tempered with fine sand is well executed. The shoulder has decoration formed by 5 encircling channel-like lines. Height – 23cm, body diameter – 29cm, mouth diameter – 12cm, base diameter – 10cm.
3. Large black coloured platter with a flanged rim and horizontal handle on the shoulder. Height – 8cm, mouth diameter – 30.5cm, base diameter – 10cm.
4. Large black coloured platter with a flanged rim and a horizontal lug handle on the shoulder. Height – 7.6cm, mouth diameter – 28.5cm, base diameter – 10.5cm.
5. Bronze awl. Length – 12cm.

### **Grave 42a**

This grave exposed at 85cm depth did not contain any skeleton. The grave was small. Its size is 70 x 82cm. The grave was covered with river-washed stones. Except for 3 closely spaced ceramic vessels, the grave did not produce any other cultural material (Plate 33).

### **Finds**

Grave 42a produced 2 platters, one kuza-type pot and a bronze awl. No other cultural material was recorded in the grave.

### ***Pottery***

1. Poorly executed, fine sand-tempered grey kuza with a flanged rim. The pot is broken into several pieces and therefore did not yield measurements. The number of fragments is 57. All have been retained.

2. Well executed, fine sand-tempered grey platter with an outcurving rim. The pot surface is polished. There is a small lug handle horizontally attached to the shoulder. Height - 7cm, mouth diameter – 25cm, base diameter – 7cm.
3. Well executed, fine sand-tempered grey platter with a rim bent outwards in a semi-circular curve. The pot has a small lug handle horizontally attached to the shoulder. Height – 8.6cm, mouth diameter – 28cm, base diameter – 8cm.
4. Well executed, fine sand-tempered grey platter with a rim bent outwards in a semi-circular curve. The pot has a small lug handle horizontally attached to the shoulder. Height – 8cm, mouth diameter – 29cm, base diameter – 10cm.

### **Grave 43**

Grave 43 was very rich. The burial chamber was large and aligned east to west. The grave measured 2.1m in length east-west and 1.7m in width north-south. This was a stone-covered earth grave. The grave exposed at a depth of 1.15m was covered with river-washed stones. Very peculiar mortuary practice was observed in this grave. Grave goods were placed first in the grave after the construction of the burial chamber. There were 3 differently sized jugs in the grave part of the burial chamber and 12 platters in other places of the grave pit. One of the jugs had a globular body and was placed at the west side of the burial chamber. Another relatively small jug stood near it, i.e. in the north-west corner of the burial chamber. The large jug in between was in a somewhat elevated position with respect to these two pots. After the grave goods had been put in the burial chamber, the body of the deceased was lowered into the grave and placed onto the platters in a semi-flexed position on its right side with the face turned to the south. The head of the deceased rested against the jug placed at the head end of the grave on the west side of the burial chamber.

A horse skull was discovered behind the shoulder-blade of the skeleton. Similar to the human skeleton the skull was placed on the platters. Another skull belonging to a sheep was found behind the pelvis. A kuza-type pottery vessel and metal objects were also recovered from among the platters. (Plate 34)

### **Finds**

Grave 43 yielded rich cultural material – 3 jugs, 12 platters, a kuza, bronze ring and an iron dagger.

### **Pottery**

1. Globular-bodied black jug with a narrow neck and a mouth portion bent outward in a semi-circular curve. Three channel-like grooves gird the body of the jug. Five similar grooves form a pattern around the shoulder of the pot. In addition the pot is decorated with incisions. The pot has also moulded lugs applied above the grooves on the shoulder. Height – 32cm, body diameter – 34cm, mouth diameter – 15cm, base diameter – 12cm.
2. Large, well-executed globular-bodied black jug with a narrow neck and rim bent outward in a semi-circular curve. The pot is decorated with three incised lines around the shoulder and six incised lines around the body. There are also applied moulded lugs on the shoulder. Height – 30cm, body diameter – 33cm, mouth diameter – 15cm, base diameter – 12.5cm.
3. Well executed fine sand-tempered dark grey jug with a globular body, twin perforated handles and rim bent outward in a semi-circular curve. The shoulder is encircled with channel-like lines. Height – 17cm, body diameter – 26cm, mouth diameter – 15.8cm, base diameter – 10.5cm.
4. Well executed fine sand-tempered black kuza with a rim bent outward in a semi-circular curve. The exterior surface is decorated with thin incised lines. Height – 12cm, body diameter – 11cm, base diameter – 5.5cm.

5. Well executed fine sand-tempered black platter with a flanged rim. The vessel broken into several pieces did not yield measurements. Height – 8cm, mouth diameter – 28cm, base diameter – 10cm. The fragments belong to a single complete pot. The number of fragments is 23. All have been retained.
6. Well executed fine sand-tempered black platter with a rim bent outward in a semi-circular curve. The shoulder is girded with two channel-like grooves. Height – 7.5cm, mouth diameter – 28cm, base diameter – 9.5cm. The number of fragments is 21. All have been retained.
7. Poorly executed fine sand-tempered black platter with a flanged rim. Although the platter was broken into several pieces, its measurements nevertheless could be taken in situ. Height – 7.6cm, mouth diameter – 26.5cm, base diameter – 9cm. The fragments belong to a single complete pot. All have been retained.
8. Medium-sized poorly executed fine sand-tempered black platter with a flanged rim. The pot is broken into many small pieces. Height – 7.5cm, mouth diameter – 27cm, base diameter – 9cm. The fragments belong to a single complete pot. All have been retained.
9. Large, poorly executed fine sand-tempered black platter with a flanged rim. Made in a plain style. The exterior surface is polished. Height – 10.5cm, mouth diameter – 31cm, base diameter – 11cm.
10. Medium-sized well executed fine sand-tempered black platter with a flanged rim. Although broken into several pieces, the pot yielded measurements in situ. Height – 8cm, mouth diameter – 27cm, base diameter – 9.5cm. The number of fragments is 21. All have been retained.
11. Well executed fine sand-tempered black platter with a flanged rim. Although the platter was broken into several pieces, its measurements nevertheless could be taken in situ. Height – 9cm, mouth diameter – 28cm, base diameter – 10cm. The number of fragments is 23. All have been retained.
12. Well executed fine sand-tempered black platter with a flanged rim. Made in a plain style. The exterior surface is polished. Height – 8cm, mouth diameter – 27cm, base diameter – 8cm.
13. Large poorly executed fine sand-tempered black platter with a flanged rim. Made in a plain style. The exterior surface is polished. Height – 9.5cm, mouth diameter – 29cm, base diameter – 9cm.
14. Large poorly executed fine sand-tempered black platter with a flanged rim. Made in a plain style. Height – 11cm, mouth diameter – 31.5cm, base diameter – 11cm.
15. Medium-sized well executed fine sand-tempered black platter with a flanged rim. Made in a plain style. The exterior surface is polished. The number of fragments is 22. All have been retained.
16. Large well executed fine sand-tempered black platter with a flanged rim. Made in a plain style. The exterior surface is polished. Height – 11cm, mouth diameter – 32cm, base diameter – 11cm. The number of fragments is 19. All have been retained.

#### ***Metal Objects***

17. Bronze ring with the ends fully meeting. The item is made of wire of a circular cross section. Diameter – 1.8cm.
18. Bronze needle with a threading eye on the rear end. Length – 11.4cm.

#### **Grave 44**

The grave discovered at 1.2m depth was 1.9m long east-west by 1.05m wide north-south. This was a stone covered earth grave.

Grave 44 contained abundant grave goods. Preservation of the skeleton was rather poor, which prevented identification of its alignment. Only a few fragments of the skeleton lying stretched on the platters were found. Twelve pottery vessels of different size and shape were recorded in the

grave. Two of the pots were large. These were found in the west corner of the burial chamber (Plate 35).

## **Finds**

Grave 44 yielded 4 jugs, 7 platters, 1 bardag-type and 1 dopu-type pot.

### ***Pottery***

1. Well executed fine sand-tempered dark grey jug with an elongated body, narrow neck and a rim bent outwards in a semi-circular curve. The exterior surface is decorated with encircling channel-like grooves. The area between the grooves is filled with incisions forming wave-shaped triangles. Height – 41.5cm, body diameter – 33.5cm, mouth diameter – 12.5cm, base diameter – 13cm.
2. Well executed fine sand-tempered dark grey jug with a globular body, narrow neck and a rim bent outwards in a semi-circular curve. The shoulder area is decorated with an encircling channel-like groove. Height – 36cm, body diameter – 38cm, mouth diameter – 12cm, base diameter – 12cm.
3. Well executed fine sand-tempered wide-mouthed black jug. The pot has a narrow base and an elongated body. The rim is bent outwards in a semi-circular curve. The exterior surface is decorated with incised lines. The shoulder is decorated with two encircling broad channel-like grooves. The pot has two lug handles. Height – 20cm, body diameter – 24cm, mouth diameter – 9cm.
4. Small well executed fine sand-tempered black jug with a globular body and a rim bent outwards in a semi-circular curve. The pot is made in a plain style. Height – 8cm, body diameter – 13.5cm, mouth diameter – 7cm, base diameter – 5.5cm.
5. Small well executed fine sand-tempered dark grey bardag with a rim bent outwards in a semi-circular curve. The body is decorated with three encircling channel-like lines. A single handle connects the mouth and shoulder. Height – 10.5cm, body diameter – 13cm, mouth diameter – 6.8cm, base diameter – 5.5cm.
6. Well executed fine sand-tempered dark grey dopu with a rim bent outwards in a semi-circular curve. The pot is made in a plain style. Height – 14.5cm, body diameter – 10cm, mouth diameter – 7.5cm, base diameter – 4.5cm.
7. Well executed fine sand-tempered black platter with a flanged rim. Height – 8cm, mouth diameter – 27cm, base diameter – 8cm. The number of fragments is 19. All have been retained.
8. Poorly executed fine sand-tempered black platter with a flanged rim and lug handle. Height – 9cm, mouth diameter – 29.5cm, base diameter – 9.2cm. The number of fragments is 21. All belong to a single complete pot and all have been retained.
9. Well executed fine sand-tempered black platter with a flanged rim. The surface is polished. Height – 8.5cm, mouth diameter – 28cm, base diameter – 9cm. The number of fragments is 14. All belong to a single complete pot and all have been retained.
10. Large poorly executed fine sand-tempered black platter with a flanged rim. The surface is polished. Height – 11cm, mouth diameter – 32cm, base diameter – 11cm. The number of fragments is 16. All belong to a single complete pot and all have been retained.
11. Large well executed fine sand-tempered black platter with a flanged rim. Height – 11cm, mouth diameter – 31cm, base diameter – 11cm. All fragments belong to a single complete pot and all have been retained.
12. Medium-sized well executed fine sand-tempered black platter with a flanged rim. The surface is polished. Height – 8cm, mouth diameter – 28cm, base diameter – 8cm. The number of fragments is 17. All belong to a single complete pot and all have been retained.
13. Medium-sized well executed fine sand-tempered black platter with a flanged rim and perforated lug handle. Height – 8.5cm, mouth diameter – 28.5cm, base diameter – 9cm. The number of fragments is 17. All form part of a single complete pot and all have been retained.

## Grave 45

Grave 45 was located near Grave 44 and measured 1.7m northwest-southeast by 1.1m southwest-northeast. The grave was a stone-covered earth grave. It was exposed at a depth of 1.15m below the surface. Very peculiar burial practice was observed in this grave. First, funeral offerings were placed in the grave, then the body of the deceased was laid on the platters lengthways in the burial chamber. The skeleton was found lying in a partially flexed position on its left side with the arms flexed at the elbows and drawn up to the jaw. Other cultural material was discovered at the head end of the skeleton, i.e. in the north-west facing section of the grave. After that the burial chamber was backfilled with a mixture of clayey soil and water which was very difficult to excavate. Three layers of properly shaped river-washed stones were removed from above the grave pit (Plate 36).

The bone was identified as that of an adult.

**Sacrifice place.** Excavation revealed a sacrifice place 90cm to the south of the burial chamber. It contained a jug and platter. The pots in the sacrifice place were at a level higher than that of the mouth of the largest jug in the burial chamber. The soil around the pots was consolidated with a layer of river-washed stones.

Bone from the grave gave a radiocarbon date of Cal BC 910 to 800 (Beta 200401).

### Finds

Grave 45 yielded rich archaeological material that included 3 jugs, 1 cooking-pot, 1 kuza, 7 platters, 1 dopu, 1 bronze forehead pendant, 1 segment of bronze wire, 1 bronze ring, 29 red agate beads, 17 black glass beads, 1 stone pendant and 1 obsidian cutting tool.

### Pottery

1. Well executed fine sand-tempered dark grey jug with a wide mouth. The shoulder is girded with a rib; the body is decorated with ribbon-shaped patterns in relief. Mouth diameter – 22.6cm, body diameter – 38cm, height – 47cm, base diameter – 17cm.
2. Large well executed fine sand-tempered dark grey jug with a narrow mouth. The shoulder is decorated with notches. The rim is bent outwards in a semi-circular curve. Mouth diameter – 14cm, body diameter – 40cm, height – 39cm, base diameter – 13.5cm.
3. Small well executed fine sand-tempered black jug with a rim bent outwards in a semi-circular curve. The pot is broken. The number of fragments is 14. All have been retained.
4. Well executed fine sand-tempered dark grey cooking-pot with a wide mouth. The surface is covered with a film-like deposit. The rim has three bulgy lines extending around its circumference. The pot has four bull's head handles with circular protrusions on their surface. One of the handles is missing. Mouth diameter – 24.2cm, body diameter – 27.5cm, height – 21.5cm, base diameter – 10.7cm.
5. Well executed fine sand-tempered dark grey kuza with an elongated narrow neck. Mouth diameter – 8cm, body diameter – 14cm, height – 18 cm, base diameter – 8cm.
6. Well executed, fine sand-tempered black platter. The pot made in a plain style has a polished surface and a single lug handle on the shoulder. Mouth diameter – 31cm, height – 8 cm, base diameter – 8.5cm.
7. Plain, well executed fine sand-tempered black platter with thin walls and a lug handle on the shoulder. Mouth diameter – 25cm.
8. Plain, well executed fine sand-tempered black platter with a lug handle on the shoulder. Height – 7.5cm, mouth diameter – 25cm, base diameter – 8.5cm.
9. Plain, well executed fine sand-tempered black platter a lug handle on the shoulder. Mouth diameter – 26cm.

10. Well executed fine sand-tempered black platter with a lug handle on the shoulder. An image of a cross covers the pot's surface from the shoulder down to the base. The interior of the image is filled with spike-shaped patterns. Mouth diameter – 32cm, height – 11cm, base diameter – 8cm.
11. Plain, well executed fine sand-tempered black platter. Mouth diameter – 25cm.
12. Plain, well executed fine sand-tempered black platter with a lug handle on the shoulder. Mouth diameter – 25cm, height – 11cm, base diameter – 11cm.
13. Well executed fine sand-tempered dark grey dopu. The mouth portion is missing. Body diameter – 9cm, height – 13cm, base diameter – 5cm.

### ***Metal Objects***

14. Forehead pendant or torc, made of thick sheet-bronze. The central portion is twisted, the terminals are flat. Both terminals have eyelets. Diameter – 18.3cm, diameter of the flat portion – 1.8cm, diameter of the central twisted portion – 0.8cm (Figure 26.1).
15. Three oblong-shaped hoops made of thin bronze wire of a circular cross section. Two of these were found interweaved into each other. The first hoop – 1.5cm, the second hoop – 3cm (Figure 34.2-4).
16. Finger ring made of thin bronze wire (Figure 34.1).
17. Badly preserved fragment of a bronze needle (Figure 35.15).

### ***Beads***

18. Twenty nine red agate beads. Thirteen of these are small and made by chipping. The remaining beads are made by grinding. The beads, each with a hole in the centre, are flat and oblong. Diameters – 1.5cm (Figure 34.14).
19. Seventeen round or slightly oblong-shaped black glass beads. Diameters – 0.7-1cm (Figure 34.9-13).

### ***Other Finds***

20. Square-shaped cutting tool made of translucent obsidian. Both side surfaces show marks of use. The object is thought to be a sickle tooth. Size – 2 x 1.8cm (Figure 34.5).
21. Fragment of a perforated pendant made of grey soft stone.

## **Grave 46**

The grave was 170 x 135 x 52cm in size and contained two human skeletons buried in a flexed position. The skeletons were oriented towards the south-west. Three intact pottery vessels and fragments of another one were found approximately 1m to the north of the burial chamber. Large quantities of small bones were seen around these pots. It was assumed that this concentration of pottery vessels was not accidental but was a component of mortuary practice closely related to religious beliefs (Plate 37, Figure 4).

### **Finds**

#### ***Pottery***

1. Symmetrically shaped jug of a black colour. The body is globular, the neck is cylindrical. Height – 32cm, neck height – 15cm, neck diameter – 13.5cm, body diameter 25.5cm, base diameter – 9cm (Plate 48).
2. Symmetrically shaped globular-bodied jug of a red colour. Height – 12cm, body diameter 12cm, neck diameter – 9cm, base diameter – 5cm.
3. Red jug with a biconical body. Height – 15cm, neck diameter – 10.5cm, body diameter 15cm, base diameter – 6cm.
4. Broken pieces of a black jug. The fragments could not be identified to forms and did not yield measurements.

5. Large yellowish jug with an elongated body. The neck portion is broken away. There are two parallel moulded ribs applied around the shoulder. Height – 48cm, body diameter – 33cm, base diameter – 13.5cm.
6. Yellowish coloured jug with a bulgy body, large-mouth and two vertical handles on the body. The shoulder is decorated with parallel incised lines. Height – 40cm, neck diameter – 14cm, base diameter 11cm, body diameter – 38cm.
7. Grey coloured jug with a globular body, wide mouth and a single hook-shaped handle on the shoulder. The shoulder and upper section of the body are decorated with parallel incised lines. Height – 24cm, mouth diameter – 17cm, body diameter – 29cm, base diameter – 29cm.
8. Small red jug with an elongated body. Height – 12cm, mouth diameter – 8cm, base diameter – 4.5cm, body diameter – 8cm.
9. Grey coloured jug with a circular body. Height – 27cm, mouth diameter – 13.5cm. Much of the pot is missing.
10. Wide-mouthed platter with a biconical body and perforated handle attached to the neck. Both the interior and exterior surfaces are polished. Mouth diameter – 26cm, height – 10cm, base diameter – 8cm.
11. Black coloured platter with a handle on the protruded part of the body. The pot is covered with black substance and polished. Height – 11.5cm, mouth diameter – 28cm, base diameter – 9.5cm.
12. Grey-black coloured platter with a horizontal handle on the protruded part of the body. The pot surface is polished. Height – 11cm, mouth diameter – 29.5cm, base diameter – 10.5cm.
13. Platter with a horizontal handle on the protruded part of the body. Height – 5.5cm, mouth diameter – 19.5cm, base diameter – 7cm.
14. Platter. Height – 6.5cm, mouth diameter – 25cm, base diameter – 9cm.
15. Platter. Height – 10cm, mouth diameter – 29cm, base diameter – 8cm.
16. Platter. Height – 7cm, mouth diameter – 21.5cm, base diameter – 8cm.
17. Platter. Height – 10cm, mouth diameter – 26cm, base diameter – 8cm.
18. Platter. Height – 6.5cm, mouth diameter – 23.5cm, base diameter – 8cm.
19. Platter. Height – 6.5cm, mouth diameter – 29cm, base diameter – 8cm.
20. Platter. Mouth diameter – 26.5cm. The mouth and body parts could not be mended.
21. Butter churn. Height – 37cm, body diameter – 29.5cm, base diameter – 12cm, mouth diameter – 12cm (Plate 48).

### ***Metal Objects***

22. Bronze bracelet made of oval cross section wire. Diameter – 8.5cm, cross-section diameter – 1.2cm (Plate 53.1).
23. Bronze bracelet made of oval cross section wire. Diameter – 9cm, cross-section diameter – 1.8cm (Plate 53.1).
24. Bronze pendant with a wave-shaped central part. Diameter – 3.5-4cm (Plate 53.1).
25. Perforated bronze horseshoe pendant with an embedded pin needle. Diameter – 3.5-4cm (Plate 53.6).
26. Bronze needle with a pointed tip and threading eye in its upper part. Made of a segment of bronze wire having an oval cross section. Length – 4cm, wire diameter – 1mm.
27. Two finger rings made of bronze wire of an oval cross section. Diameter – 2-2.2cm, wire diameter – 0.8-1mm (Plate 53.6).
28. Bronze loop pendant with an attached perforated stone (Plate 53.6).
29. Spiral-shaped bronze pendants (Plate 53.2).
30. Bronze chain and spiral-shaped pendants (Plate 53.4).
31. Bronze chain.
32. Two bronze spiral-shaped pendants (Plate 53.2).
33. Bronze finger ring.

### ***Beads***

**34.** Two hundred and thirty five agate beads. Of these, 187 beads are wheel-shaped with holes on one side, 46 beads are leaf- or drop-shaped and 2 beads are flat-shaped with holes on the lateral side (Plate 53.3).

**35.** Nine glass paste beads. One of these is wheel-shaped and has holes pierced in the middle and lateral side. Diameter – 1.4cm.

### **Grave 47**

The grave had an oval shape and east to west alignment. Dimensions: 183 x 140 x 35cm. The skeleton was laid in a flexed position on its left side with the head at the west end of the grave. Excavations produced 2 bronze hoops and 57 paste and agate beads in the neck and shoulder areas of the skeleton. Another find was a bronze pendant with a wave-shaped central portion. The object was detected on the left leg bone of the skeleton. Two separately disposed pots were recorded 30-50cm north-west of Grave 47 (Plate 38, Figure 5).

### **Finds**

The pottery assemblage from the grave includes 3 platters, 1 jug, 1 dopu and 1 churn. The pottery ware is of a grey black colour; pot surfaces are polished with a black substance.

### ***Pottery***

**1.** Large jug with a circular body. The shoulder is decorated with parallel wavy lines. Mouth diameter – 14cm, base diameter – 10cm, height – 38cm, body diameter – 40cm (Plate 51.1).

**2.** Platter with a small handle on the shoulder. Mouth diameter – 12cm, base diameter – 10cm. The body is broken and could not be measured.

**3.** Broken platter. The pot did not yield measurements.

**4.** Broken platter.

**5.** Butter churn of grey black colour. The surface is polished. The pot is broken and did not yield measurements.

**6.** Biconical dopu with a grey black polished surface. Height – 8.5cm, mouth diameter – 6.7cm, base diameter – 6cm.

### ***Metal Objects***

**7.** Needle made of a segment of bronze wire. Diameter – 1.-1.2mm, length – 11cm (Plate 53.19).

**8.** Two earrings of a similar shape and size made of bronze wire of an oval cross section. Diameter – 4cm, wire diameter – 1.2cm (Plate 53.16-18).

### ***Beads***

**9.** Twenty seven agate beads (Plate 53).

**10.** Bronze bead with an oval cross section. Diameter – 5mm.

### **Grave 48**

The grave had an oval shape and northeast to southwest alignment. Dimensions: 125 x 150 x 70cm. The grave was uncovered at a depth of 162cm below the surface. The natural anatomic layout of the skeleton was distorted. The body of the deceased appeared to have been disarticulated before burial. The skull, jaw, backbone and ribs were scattered all over the grave floor (Plate 39, Figure 6).

### **Finds**

### ***Pottery***

1. Large oval-bodied jug with wavy line shoulder decoration. Height – 32cm, body diameter – 29.5cm, mouth diameter – 13cm, base diameter – 10.5cm (Plate 49.7).
2. Black grey polished platter with a biconical body. Mouth diameter – 21cm, base diameter – 6.5cm, height – 10cm (Plate 49.3).
3. Platter. Mouth diameter – 27cm, height – 8.5cm, base diameter – 7.5cm (Plate 49.4).
4. Globular-bodied dopu with a small horizontal handle on the shoulder. Height – 6.5cm, mouth diameter – 5.5cm, base diameter – 3.5cm, body diameter – 9.5cm (Plate 49.6).

### ***Metal Objects***

5. Needle made of a piece of bronze wire having a circular cross section. The tip is sharp, the upper part has an oval-shaped threading eye. Length – 10cm, diameter – 1mm.
6. Bronze bracelet. Diameter – 6.5-7cm.
7. Bronze chain made of wire.
8. Bronze bracelet. Cross section diameter – 4mm, diameter – 8cm.

### ***Beads***

9. Five red ceramic beads of an oval shape.
10. Thirty five varied agate beads.

## **Grave 49**

The grave had an oval shape and east to west alignment. Dimensions: 130 x 75-80 x 53cm. The grave uncovered at a depth of 150cm below the surface produced 4 pots, 33 varied beads and a bronze bell. The pottery vessels were largely lined up against the wall in the north-west facing section of the grave. There were very small human bone fragments, beads and a bronze bell in the central part of the grave. The grave appeared to be that of a one- or two-year-old infant. The grave floor was covered with a 2-4cm thick sand layer (Plate 40, Figure 7).

### **Finds**

#### ***Pottery***

1. Black polished jug with a globular body and cylindrical neck. Height – 29.5cm, body diameter – 22.5cm, mouth diameter – 11cm, base diameter – 11cm (Plate 49.8).
2. Globular-bodied jug with a mushroom-like protrusion on the shoulder. The shoulder has combed line decoration. Parallel lines form an additional pattern around the body. Height – 24cm, body diameter – 27cm, mouth diameter – 13cm, base diameter – 10cm (Plate 49.5).
3. Black coloured platter with a biconical body and a lug handle on the shoulder. The surface is polished. Height – 7cm, mouth diameter – 20cm, base diameter – 7.5cm (Plate 49.1).
4. Black coloured platter with a biconical body and a horizontal lug handle. The surface is polished. Height – 11.5cm, mouth diameter – 27.5cm, base diameter – 10cm (Plate 49.2).

#### ***Metal Objects***

5. Bronze bell with an elongated body and suspension loop at its upper end. Length – 5.5cm, diameter of the lower part – 2cm (Plate 50.11).

#### ***Beads***

6. Twenty eight differently shaped agate beads (Plate 50.10).
7. Two paste beads. One has an oblong shape with a notch in the centre; the other is wheel-shaped. Both are sky blue.

## Grave 50

A spread of stones measuring 1m in diameter was observed over the grave. The stones were removed and the principal shape and dimensions of the grave were established. An intact pot and pottery pieces were recorded 20-30cm south-west of the grave stone setting. The major chamber had an oval shape. A child skeleton and grave goods were exposed at a depth of 38-40cm below the ground surface. The skeleton aligned west-to east was lying on its right side. Two platters were recovered from under the leg and rib bones of the skeleton; jug-, platter- and kuza-type pots were discovered at the back of the skeleton. Jewellery items included 42 small paste beads, of these 10 beads are blue coloured and 5 are pink. Bronze items consist of a bracelet and a needle (Plate 41).

### Finds

#### *Pottery*

1. Small globular-bodied jug of a light black colour. The surface is polished; the shoulder has decoration made up of 5 parallel incised lines. Height – 16.2cm, body diameter – 17cm, mouth diameter – 6.5cm, base diameter – 6cm (Plate 50.8).
2. Jug fragment. The form and dimensions of the pot could not be identified.
3. Globular-bodied kuza with a narrow neck and wide flat base. The colour is black, the surface is polished. Height – 24.5cm, body diameter – 16cm, neck – 8cm, base – 9cm (Plate 50.6).
4. Globular-bodied jug with an ear-shaped lug on the shoulder. The mid section of the pot is decorated with 16 encircling grooves. Traces of black polish are seen on the surface. Height – 27cm, body diameter – 28cm, neck diameter – 12cm, base diameter – 13.5cm (Plate 50.7).
5. Platter. Height – 9.5cm, base diameter – 9.5cm, mouth diameter – 27.5cm (Plate 50.1).
6. Platter. Height – 6.3cm, base diameter – 8cm, mouth diameter – 24.5cm (Plate 50.2).
8. Platter. Height – 4.2cm, base diameter – 8.5cm, mouth diameter – 23cm (Plate 50.3).
9. Platter. Height – 4.5cm, base diameter – 8.5cm, mouth diameter – 25cm (Plate 50.4).
10. Platter. Height – 4.5cm, base diameter – 7cm, mouth diameter – 25cm (Plate 50.5).

#### *Metal Objects*

11. Ring made of a segment of wire of a circular cross section. Diameter – 3.5cm, wire diameter – 1mm (Plate 50.12).

#### *Beads*

12. Small oval and circular cylindrical beads are made of white paste. Five of the beads are made of pink glass paste (Plate 50.9).

## Grave 51

The grave had a rectangular shape and east-west alignment. It measured 165 x 105 x 40cm and was exposed at 125cm depth. The contained a child skeleton. The bones were extremely decayed which made impossible to determine the skeleton's position. Based on the size of bone fragments it could only be assumed that this was the grave of a three- to four-year-old child. As distinct from other graves, this burial produced large jugs one of which contained a finger bone. Jewellery items include a bronze hoop, needle, chain remnants, agate and paste beads.

### Finds

#### *Pottery*

1. Globular-bodied jug of a yellowish colour. The mid section of the pot is decorated with incised wavy lines. Height – 20.5cm, body diameter – 24cm, mouth diameter – 12cm, base diameter – 9cm (Plate 51.4).

2. Large red jug with a bulgy body. The pot contained a human finger bone. Height – 37cm, mouth diameter – 14.5cm, base diameter – 14.5cm, body diameter – 34cm (Plate 51.5).
3. Large red jug with a bulgy body. The entire exterior surface is decorated with horizontal wavy lines. Height – 45cm, body diameter – 40cm, mouth diameter – 15cm, base diameter – 16cm (Plate 51.2).
4. Single-handled platter with biconical body. The surface is black polished. Height – 10cm, base diameter – 7cm, mouth diameter – 35cm (Plate 51.3).

#### ***Metal Objects***

5. Bronze hoop made of wire with an oval cross section. Diameter – 7cm, wire diameter – 2mm (Plate 52.1).
6. Chain remnants consisting of oval-shaped links made of 1mm diameter bronze wire (Plate 52.2).
7. Needle made of bronze wire. Length – 6.3m, wire diameter – 4-6mm (Plate 52.8).

#### ***Pottery***

8. Of 100 beads recovered 95 are differently shaped agate beads (oblong, circular, leaf-shaped), 2 are paste beads painted blue and 3 are ceramic beads (Plate 52).

### **Grave 52**

The grave exposed at 79cm depth was aligned east to west and measured 1.1m in length by 0.8m in width. This was a small child grave. The skeleton's alignment was in line with that of the grave. The body was laid in a tightly flexed position on its left side with the head at the west end of the grave pit. A platter-type pot had been placed on the body. Another pottery vessel was found in the area behind the skull. A flake of obsidian was recovered from under the skull and small chain links were lifted from the neck region of the extremely decayed skeleton (Plate 42).

#### **Finds**

##### ***Pottery***

1. Black jug with a biconical body, narrow base and stepped rim. The pot has two symmetrically ribbon-shaped handles attached to the shoulder. Only one of the handles was preserved. Opposing the handles on the shoulder are two moulded decoration elements. An applied moulded crescent can be seen near the break point of one of these decorative elements. On the opposite side the pot had an applied mouldered shoulder-shaped lug. The upper body section of the pot is decorated with vertical depressions. Height – 16cm, mouth diameter – 10cm, body diameter – 21.5cm, base diameter – 12cm,
2. Large black platter with an ear-shaped handle on the shoulder. Height – 9cm, diameter – 28cm, base diameter – 11cm.

##### ***Metal Objects***

3. Two chains links made of thin bronze wire. One of these is broken into small pieces.

##### ***Beads***

4. Ten circular-shaped beads made of white glass paste. One of these consists of combination of two such beads. Four of the beads are broken into pieces.
5. One flat disk-shaped bead made of blue paste. Both surfaces are decorated with slanting notches. In addition to the large hole in the middle the bead has a small transverse hole. A small

red agate bead is so embedded in the central hole that the thread run through both the transverse hole and the agate bead.

### **Grave 53**

The grave was aligned southwest to northeast. There were two jugs in the southwest corner of the grave and a platter-type pot to the northeast of these jugs. The body was laid on its left side on these pottery vessels. The deceased was buried slightly flexed at the pelvis and tightly flexed at the knees with its head at the southwest end of the grave and the face turned to the northwest. The arms flexed at the elbows were drawn up to the chest. There were red agate and paste beads on the neck and bracelets made of thick wire – one on each wrist. A small upside down platter was noted behind the pelvis and a large kuza in front of the skeleton. This pot was severely eroded and could not be rescued. There was also a plate at the back of the skull which contained small bovid bones.

The human bone was identified as that of an adult female.

Bone from the grave gave a radiocarbon date of Cal BC 1300 to 1030 (Beta 218211).

### **Finds**

#### ***Pottery***

1. Large jug with a bulgy body and narrow mouth. The neck is short, the base is flat. The upper section of the pot is encircled with alternate straight and wavy lines. Height – 31cm, mouth diameter – 15.5cm, body diameter – 35cm, base diameter – 13cm.
2. Large bulgy-bodied jug with a flat base, short neck and narrow mouth. The shoulder is decorated with three channel-like grooves. The mouth portion is missing. Height – 28cm, body diameter – 30cm, base diameter – 10cm.
3. Large platter-type pot with a lug handle on the shoulder. Height – 8cm, diameter – 36cm, base diameter – 11cm.
4. Large platter-type pot with a lug handle on the shoulder. The body from the shoulder down to the base is decorated with strips applied by polishing. Height – 7cm, diameter – 30.5cm, base diameter – 11cm.
5. Dark grey plate-type pot. The surface is spotted with black and brown stains caused by uneven firing at an unstable temperature. The pot surface is decorated with vertical polished strips. The base has a 'twisted rope' edge. There is a post-firing orifice below the mouth. Height – 5cm, diameter – 24cm, base diameter – 9.5cm.
6. Dark grey plate-type pot with an outwardly bent rim. The interior of the vessel has vertically applied wavy lines. Height – 6.5cm, diameter – 21cm, base diameter – 8cm.
7. Dark grey plate-type pot with an outwardly bent rim and a lug handle on the shoulder. The body from the shoulder down to the base is decorated with narrow strips applied by polishing. Height – 8cm, diameter – 20cm, base diameter – 7.4cm.

#### ***Metal Objects***

8. Two links of a chain made of bronze wire. Each is 2cm long by 8mm wide (Figure 34.20).
9. Two bracelets made of thick bronze ware of a circular cross section. Diameter – 6cm, cross section diameter – 7-9mm. The gap between the terminals is 2.5cm and 1.5cm (Figure 25.5).

#### ***Beads***

10. Thirty seven pale red and dark red agate beads. These beads are divided into several groups according to shape and size (Figure 22):
  - a) Eight large oblong and oblong flat beads. Length 1.5cm to 2.2cm.
  - b) Eighteen large and medium-sized circular-shaped beads. Diameter – 1cm to 1.5cm.
  - c) Ten small circular beads.

d) One pear-shaped bead.

11. One hundred and sixty four beads chipped out of white paste (Figure 34.19).

12. Two flat disk-shaped mother-of-pearl beads with transverse holes. One bead has a bronze wire hoop threaded through the hole. One bead is 2cm in diameter, the other is 1.7cm (Figure 34.16-17).

13. Three large circular-shaped beads made of grey coloured glass paste. Their surface is decorated with notches. Length - 0.7cm to 1cm (Figure 34.18).

#### **Grave 54**

The burial chamber was embedded in the natural grave-rich layer and measured 1.8m northwest by 1.1m southeast. The grave contained three large jug- and kuza-type pots lined up in the north-west facing section of the grave. A large platter was disposed on the south-west of the central pot. A human skull was found inside this platter. The skeleton was lying in a tightly flexed position on its right side with the head at the north-west end of the burial chamber. A small black coloured cooking-pot lying on its side was found against the tibiae of the skeleton. The pot was heavily eroded and could not be rescued. A dog skeleton was excavated at the back of the human skeleton. It had a north to west alignment and lay against the north-east wall of the grave. A pile of small bovid bones was cleared up in front of the skeleton. A sheep or goat jaw bone was found inside a wide-mouthed jug in the south-east part of the grave. This jug was apparently incomplete when placed in the grave. An obsidian flake was recovered from the soil near this jug.

#### **Finds**

##### ***Pottery***

1. Large kuza-type pot of a grey brown colour. The shoulder is girded with four bulgy belt-shaped lines. There are three lugs symmetrically attached to the pot body above the second 'belt'. Height – 31.5cm, mouth diameter – 14.5cm, body diameter – 30cm, base diameter – 12.5cm.

2. Black jug with a biconical body and a lug in the upper part of the shoulder. The upper section of the body is decorated with seven pressed in vertical lines evenly disposed around the pot's circumference. This pattern is bordered below with an encircling channel-like line. Height – 26cm, mouth diameter – 12.4cm, body diameter – 27.5cm, base diameter – 11.6cm.

3. Black narrow-mouthed jug with grey stains on the surface. The shoulder is girded with two bulgy ribs. Height – 25.4cm, mouth diameter – 13.5cm, body diameter – 27cm, base diameter – 8cm.

4. Large black platter-type pot with a lug handle vertically attached to the shoulder. Height – 7.5cm, diameter – 30cm, base diameter – 10.5cm.

#### **Grave 55**

This grave was uncovered in the south-west corner of the excavation site. The grave measuring 1.1m by 0.9m had an east-west alignment and was 1.2m deep. The grave was small and contained the skeleton of a juvenile girl.

The grave fill consisted of soil with sparse gravel and pebbles. The skeleton was found lying tightly flexed on its left side with the head at the west end of the burial chamber. There were four pottery vessels, including a medium-sized jug in the west facing section of the grave, a very small jug and two platters - one small and the other relatively large - were placed on the south of this group of vessels. The skull was inside the large platter. A jaw bone of a small bovid was detected right in front of the skeleton's forehead. Two bronze earrings, agate beads and a bronze bracelet were detected in the ear, chest and wrist region of the skeleton. Though the deceased's hands were drawn up to its chest, the bracelet was found not on its arm bone but near it. Besides,

the bracelet was rather large to be a child's bracelet which suggests that it was put into the grave during burial (Plate 43).

The grave floor was plastered with a 4-5cm thick clay-rich substance. As this was a child's burial, the pots disposed in the grave were relatively small.

## **Finds**

### ***Pottery***

1. Globular-bodied jug-type pot. There is a smooth-surfaced moulded decoration applied to the shoulder that has two encircling bulgy ribs. The body is girded with a pair of channel-like lines. Height – 25cm, mouth diameter – 12cm, body diameter – 24cm, base diameter – 10cm.
2. Small platter-type pot with a lug handle attached to the outwardly bent rim. Height – 8cm, diameter - 21cm, base diameter – 7cm.
3. Platter-type pot with a lug handle on the shoulder. Height – 13cm, diameter – 26cm, base diameter – 10cm.
4. Small jug-type pot with a biconical body and narrow mouth. Height – 8.5cm, mouth diameter – 6cm, body diameter – 9cm, base diameter – 4.5cm.

### ***Metal Objects***

5. A pair of oval-shaped earrings made of thin bronze wire of a circular cross section. Length – 1.5cm, width – 7mm.
6. Thin bronze wire bracelet with the terminal ends bent to form a back curve. Diameter – 4.5cm.

### ***Beads***

7. Five small flat disk-shaped agate beads.

## **Grave 56**

The grave slightly inclined to the north-east had a north-south alignment. The burial chamber measuring 2.2m by 1.1m was dug at 1.5m depth and differed from others by its oblong shape. The skeleton was excavated in the south part of the grave pit. It was found lying flexed on its left side with the head in the central part of the grave. The legs were parallel, tibia and hip bones lay criss-crossed. The left arm lay stretched under the left knee parallel to the body. The right arm flexed at the elbow was extended en avant. The skull was cracked into pieces.

The bone was identified as that of an adult.

A single hoop earring was retrieved from the right ear area of the skeleton, presumably belonging to a woman. There was a long beaded necklace hanging from the deceased' neck down to its belly region. The necklace consisted of 1 bronze, 23 agate beads and 140 beads made of paste and various other materials. The beads in the neck area were smaller than those hanging downwards. The area behind the skull produced two obsidian flakes. Three jug-type pots lined up to the north were found in the area around the skull. A larger part of a sheep skeleton, including its skull was excavated to the west of these three pottery vessels.

Bone from the grave gave a radiocarbon date of Cal BC 1430 to 1260 (Beta 232332).

## **Finds**

### ***Pottery***

1. Black jug-type pot. The rim has a channel-like line extending around its inner circumference. The shoulder of the pot is decorated with vertical slanting notches, thumbed dots and wave-shaped lines. The base edge is decorated with notches. Height – 17.8cm, mouth diameter – 17.4cm, body diameter – 25cm, base diameter – 9cm.
2. Black globular-bodied pot with an outwardly bent flanged rim. The shoulder is girded with four parallel wavy lines. The pot was heavily eroded and could not be rescued. Height – 14cm, mouth diameter – 15cm, body diameter – 23cm, base diameter – 8cm.
3. Black medium-sized jug-type pot broken into many small pieces. For this reason its size and shape could not be identified.

#### ***Metal Objects***

4. Bronze bead with a bulge in the centre and narrow ends. Length – 1cm.
5. Thin bronze wire earring of a circular cross section. Diameter – 2.5cm.

#### ***Beads***

6. Twenty three small red agate beads. Carelessly executed, the beads have uneven surfaces.
7. Beads made of white, black, grey and blue paste and minerals. A portion of these are small and disk-shaped. Others are medium-sized or large (length – 1cm to 2cm, diameter 7mm to 1cm). These have different shapes – oblong, flat, round, almond-shaped, etc. Such beads have lengthwise and transversal notches on their surface. One bead has a net-shaped ornament made up of notched rhombuses. The total number of beads is 140. Of these 115 beads were recovered intact, the remaining white paste beads crumbled upon lifting.

### **Grave 57**

This grave was uncovered 80cm west of Grave 51. The burial chamber was dug at a depth of 130cm. The grave did not contain a human skeleton, however, the burial ceremony was held and rituals were performed at this grave. Four pottery vessels were placed on the grave floor and a 20-25cm thick rectangular platform was then constructed over these pots. The platform formed by river-washed stones was aligned north-south and measured 1.1m by 0.9m. The east corners of the platform had 30-35cm long extensions. In the centre of this platform there was a 50cm high oval pile of stones with an upwardly diminishing diameter. This set of stones resembling a pyramid in general shape, was then covered over with soil. The form of the grave is very similar to that of Grave 1 from Zayamchai (KP355).

The pottery assemblage from the grave included three platters and a kuza with a biconical body. All four are of a black colour. One of the platters contained small bovid bones. Another platter had twin handles, not frequently encountered in such kind of pots (Plate 44).

#### **Finds**

##### ***Pottery***

1. Kuza with a biconical body. The shoulder is decorated with a pair of encircling incised lines. The space between these lines has burnished decoration in the form of randomly applied oblique lines. There is a rectangular-shaped lug at the level of the lower line. The body is girded with a channel-like groove. Height – 24cm, mouth diameter – 10cm, body diameter – 27cm, base diameter – 10cm.
2. Large platter-type pot with a bulgy rib running around the pot circumference below the flanged rim. There is a lug handle on the shoulder. The body down to the base is decorated with thin burnished vertical lines. Height – 10.5cm, diameter – 28cm, base diameter – 9cm.
3. Platter-type pot with a flanged rim and lug handle on the upwardly tapering shoulder. Height – 10cm, diameter – 26.5cm, base diameter – 10cm.

4. Large platter-type pot with a bulgy rib running around the pot circumference below the rim. There are two adjacent lug handles attached to the pot above this rib. Height – 11.5cm, diameter – 29.5cm, base diameter – 9.6cm.

### **Grave 57a**

The burial chamber with a northwest-southeast alignment was dug at 90cm depth. Two large narrow-mouthed jugs with a cup-shaped pot in between were found placed in the north-west of the grave. A bowl and two platters were discovered to the south-east of these pots. All these pots were of a black colour. The skeleton was laid flexed on its left side on the platters with the head at the north-east end of the grave. The skull and body bones (backbone, ribs) of the skeleton of a mature woman were found in the platters. Because of decaying the skull changed its position and was found lying upside down with the lower jaw detached. Both arms flexed at the elbows were stretched upwards towards the chest.

A bronze hoop and a slab earring were lifted from near the ear and 11 small agate beads and 4 white paste beads were recovered from around the neck. A bronze snake's head pendant was found above the chest and a thick bronze wire bracelet on each of the wrists. All the pottery vessels in the grave were cracked into small pieces.

### **Finds**

#### ***Pottery***

1. Bulgy-bodied narrow-mouthed jug with a rectangle-shaped lug on the shoulder. Three channel-like lines form an encircling pattern below this lug. Height – 30cm, mouth diameter – 13.4cm, body diameter – 31.5cm, base diameter – 12cm.
2. Globular-bodied narrow-mouthed jug with a rectangle-shaped lug on the shoulder. The area above this lug is decorated with a spike-shaped ornament. Below is a net-shaped strip applied by polishing and bordering this further down are three channel-like lines. Height – 31.5cm, mouth diameter – 14cm, base diameter – 12cm, body diameter – 38cm.
3. Undecorated cup-shaped pot. Height – 10cm, mouth diameter – 8.5cm, body diameter – 7cm, base diameter – 3.8cm.
4. Small undecorated bowl-type pot. Height – 6.5cm, mouth diameter – 18cm, base diameter – 8cm.
5. Platter-type pot with a lug handle on the shoulder. From the shoulder down to the base the pot is decorated with closely spaced burnished lines. The bottom side surface of the base has a cross-shaped ornament. Height – 10cm, mouth diameter – 8.5cm, body diameter – 7cm, base diameter – 3.8cm.
6. Large platter-type pot with a lug handle on the shoulder. The pot from this level down to the base is decorated with burnished strips. Height – 8cm, mouth diameter – 37cm, base diameter – 10.5cm.

#### ***Metal Objects***

7. Thick bronze wire bracelet with interlocking terminals. One of the terminal ends is narrower than the other. Diameter – 7.8cm, cross section diameter – 7mm.
8. Open-ended loop-shaped jewellery item made of thick bronze wire of a circular cross section. One end of the item gets gently thinner and bends backward in a snake-like curve. Diameter – 8cm, cross section diameter – 6mm.
9. Thin bronze wire pendant with spiral terminals and 2.3cm diameter loop. Diameter of spiral ends – 1.2cm.
10. Small bronze chain link.

11. Earring made of sheet bronze and a piece of bronze wire. The bronze slab is in the shape of a rectangle widened on one side. Length – 3cm, thickest diameter – 2.3cm.

12. Pendant made of a small flat river-washed stone with a bronze chain link thread through the hole at one end.

### ***Beads***

13. Fifty nine red agate beads. One is relatively large. This flat oblong-shaped bead is 1.8cm long and 7mm thick. The remaining beads are smaller and differently shaped. They are flat disk-shaped, circular, biconical and barrel-shaped.

14. Five beads chipped out of white paste.

## **Grave 58**

The burial chamber aligned east to west and measuring 1.5m by 1.1m was dug into a natural gravel layer to a depth of 1m. The grave fill consisted of extremely compacted gravel-rich soil. It seemed very probable that some hardening substance had been used during the backfilling of the grave (Plate 45).

The finds assemblage from the grave included a bardag, two jugs and two platters, one on the other, placed side by side at the west end of the grave. Large quantities of pottery pieces were excavated to the east of these pottery vessels. All pottery pieces were exposed at 70cm depth at the mouth level of this group of pots. An obsidian flake was found in the central part of the grave. There were no pottery sherds on the grave floor. All the pottery ware was of a dark grey colour. The saline soil of the grave fill caused erosion and subsequent cracking even in intact pots.

No human skeletal remains or other bones were encountered in the grave.

### **Finds**

#### ***Pottery***

1. Large jug-type pot with a flanged rim bent outward. The pot had four moulded decorations symmetrically applied to the shoulder. Two of these have been preserved. One of these appliqué has four channel-like lines on the surface. Height – 28cm, mouth diameter – 15cm, body diameter – 32cm, base diameter – 11cm.

2. Large narrow-mouthed jug. Two channel-like lines with oblique notches applied in between form a pattern around the shoulder. Height – 30cm, mouth diameter – 14cm, body diameter – 33cm, base diameter – 11cm.

3. Undecorated bardag-type pot. A handle of a circular cross section connects the rim and shoulder of the vessel. Height – 24cm, mouth diameter – 9cm, body diameter – 19cm, base diameter – 8cm.

4. Large platter-type pot with a lug handle on the shoulder. Height – 13cm, diameter – 27cm, base diameter – 3.8cm.

5. Large platter type pot with a lug handle on the shoulder. A bulgy rib runs around the pot below the rim. Height – 13cm, mouth diameter – 28cm, base diameter – 10cm.

## **Grave 58a**

The burial chamber was nearly quadrangular. It was unearthed at 1.1m depth and measured 1.2m northwest-southeast by 1.1m northeast- southwest. The pottery vessels covered the entire area of the grave floor and were placed one on the other. A total of 21 pots were recovered from the grave. These include 2 bardags, 3 jugs, 14 platters, a dopu and a mug. All of the pots are dark grey.

The north-east corner of the grave yielded remains of a small bovid jaw, a needle, 24 white paste beads and 18 blue paste beads. An unworked obsidian flake was retrieved from under the platter in the south corner of the grave pit. The grave floor was plastered with a 3-4cm thick clay-rich substance. The grave with no skeleton inside had a fill consisting of only soil.

## **Finds**

### ***Pottery***

- 1.** Bardag-type pot. A handle having a circular cross section connects the rim and shoulder. The upper end of the handle surface bears spike-shaped patterns. The shoulder and body are girded with channel-like lines – 7 on the shoulder and 4 on the body. Height – 28cm, mouth diameter – 10.5cm, body diameter – 26.5cm, base diameter – 11cm.
- 2.** Small bardag-type pot. A handle having a circular cross section connects the rim and shoulder. Two channel-like lines spaced 6cm from each other extend around the shoulder. The area between the lines is filled with small oblique incisions. Height – 19.5cm, mouth diameter – 7.6cm, body diameter – 18.5cm, base diameter – 7cm.
- 3.** Large jug-type pot with a globular body, narrow mouth and narrow base. The rim is bent outwards. The pot is undecorated and cracked into small pieces.
- 4.** Jug with a biconical body and a stepped shoulder decorated with channel-like lines. The pot had four applied moulded decorations symmetrically spaced on the shoulder. Two of these were preserved. These are in the shape of a lug handle. Height – 20cm, mouth diameter – 15cm, body diameter – 23cm, base diameter – 10cm.
- 5.** Small jug-type pot with a biconical body and shoulder decorated with a channel-like line. Height – 11cm, mouth diameter – 9.5cm, body diameter – 15.5cm, base diameter – 8cm.
- 6.** Undecorated dopu-type pot. Height – 14.5cm, mouth diameter – 6.5cm, body diameter – 11cm, base diameter – 5.5cm.
- 7.** Mug-type pot with a handle of a circular cross section connecting the rim and lower part of the shoulder. The rim has two channel-like lines running along its exterior circumference. The body, slightly tapering up towards the mouth, flares at the rim. Height – 9.5cm, mouth and lower section diameter – 12.5cm, base diameter – 9cm.
- 8.** Large platter-type pot with a gentle shoulder-to-body transition. The pot has an ear-shaped handle on its shoulder. Height – 10cm, diameter – 32cm.
- 9.** Platter-type pot with a rim bent outwards. The pot has an ear-shaped handle on its shoulder. Diameter – 32cm.
- 10.** Large platter-type pot with a rim bent outwards and an ear-shaped handle on the shoulder. Height – 8.5cm, diameter – 32cm, base diameter – 11.2cm.
- 11.** Relatively deep platter-type pot with an ear-shaped handle on the shoulder. From this level down to the base the pot surface is decorated with wide burnished strips. Height – 11cm, diameter – 26.6cm, base diameter – 9cm.
- 12.** Large undecorated handleless platter-type pot. Height – 11cm, diameter – 32cm, base diameter – 11cm.
- 13.** Platter-type pot with an ear-shaped handle on the shoulder. Height – 8cm, diameter – 23cm, base diameter – 8cm.
- 14.** Large platter-type pot with an ear-shaped handle on the shoulder. Height – 10cm, diameter – 29.5cm, base diameter – 10.5cm.
- 15.** Undecorated handleless platter-type pot. Height – 7.5cm, diameter – 25cm, base diameter – 9cm.
- 16.** Large platter-type pot with an ear-shaped handle on the shoulder. Height – 9.5cm, diameter – 27.5cm, base diameter – 10.6cm.
- 17.** Large platter-type pot with an ear-shaped handle on the shoulder. From this level down to the base the pot surface is decorated with wide burnished strips.
- 18.** Large platter-type pot with an ear-shaped handle on the shoulder. Height – 10.5cm, diameter – 31cm, base diameter – 10.5cm.

19. Large platter-type pot with an ear-shaped handle on the shoulder. Height – 8.5cm, diameter – 31cm, base diameter – 9cm.
20. Large undecorated handleless platter-type pot. Height – 11cm, diameter – 32cm, base diameter – 10.5cm.
21. Large platter-type pot with an ear-shaped handle on the shoulder. From this level down to the base the pot surface is decorated with wide burnished strips. Height – 9cm, diameter – 31cm, base diameter – 10.5cm.

### **Grave 59**

The burial chamber dug into a depth of 1.45m was aligned west to east and measured 1.1m by 1.7m. The grave floor was plastered with a 4-5cm thick clay-rich substance. A woman's skeleton was buried tightly flexed on its left side with the head at the west end of the grave. The arms were stretched upwards to the neck. The head, originally turned upwards, tilted backwards as a result of bone decaying. A bronze needle was recovered from under the shoulder bone of the skeleton.

A jug, a platter and a churn were lined north to south in the west facing section of the grave. The jug was dark grey; the other two pots were black. All the pots were cracked into small pieces. Sheep skull bones were detected between the platter and churn.

#### **Finds**

##### ***Pottery***

1. Globular-bodied narrow-necked jug with an outwardly bent rim. The shoulder has an applied moulded polished surfaced lug with a through hole in the middle. The body is decorated with two encircling parallel channel-like grooves. Height – 23cm, mouth diameter – 13cm, body diameter – 28cm, base diameter – 10cm.
2. Large platter-type pot with an ear-shaped handle on the shoulder. Height – 10.5cm, diameter – 31cm, base diameter – 8.5cm.
3. Churn-type pot with the neck-to-shoulder transition decorated with an encircling channel-like line. Two more similar lines run around the shoulder of the pot. There is an 8.5cm long handle attached to the shoulder above the lower lines and an adjacent 1m diameter hole. Height – 40cm, neck height – 6cm, mouth diameter – 13.5cm, body diameter – 32cm, base diameter – 11.5cm.

##### ***Metal Objects***

4. Bronze needle measuring 9cm in length.

### **Grave 60**

Grave 60 was discovered 10m 30cm away from the trench dug for the pipeline. After clearing the initial earth covering the grave, large river-washed stones were exposed. The stones were found placed one over another. Further clearing established that this spread of stones measured 2.1m in length northeast-southwest. The grave itself was also aligned northeast to southwest. The large stones were removed and a layer of small stones was exposed. Beneath this layer there was another layer of stones. This spread of stones was roughly oval and consisted of medium-sized and large stones extending down to a depth of 90cm where the burial chamber was uncovered (Figure 8).

The burial chamber contained a large globular-bodied jar of a dark grey colour, and a large platter placed adjacent to it. There were small and medium-sized dopus inside the platter. In addition the platter contained a fragment of a large animal bone.

## **Finds**

### ***Pottery***

1. Narrow-mouthed jug with a bulgy body and outwardly bent rim. Around the shoulder is a single bulgy strip with three small evenly spaced ear-shaped lugs attached onto its surface. Two more parallel strips extend around the body of the pot. Between these lines are net-shaped patterns made up of oblique incised lines. The base is flat. The pot is sand-tempered. The colour is dark grey. The surface is polished. Exterior mouth diameter – 11cm, interior mouth diameter – 9.5cm, body diameter – 24cm, height – 26cm, base diameter – 10.5cm.

2. Wide-mouthed jug with a bulgy body, short neck and an outwardly bent rim. The neck-to-body transition has an encircling strip formed by notched lines. The base is flat and narrow. The base edge is banded with oblique incisions. Thin incised parallel lines form a pattern around the base-to-body transition. Poorly incised parallel lines run around the upper section of the body as well. The pot tempered with fine sand is fired at an unstable temperature to a brown colour and has heat caused stains on the surface. Mouth diameter – 16cm, body diameter – 19cm, height – 16cm, base diameter – 7cm.

3. Small dopu-type pot with a flat base, short neck, biconical body and an outwardly bent rim. The pot is plain in style. Tempered with sand the pot was fired to a grey surface. Exterior mouth diameter – 6.2cm, interior mouth diameter – 9.5cm, height – 7cm, base diameter – 5cm.

4. Medium-sized dopu-type pot with a flat narrow base, biconical body and outwardly bent mouth formed as a continuation of the body. The rim is broken away. The pot is plain in style. Tempered with sand the pot was fired to a dark grey surface. Mouth diameter – 10cm, body diameter – 18.5cm, height – 11.5cm, base diameter – 6cm.

5. Deep-sided platter with an outwardly bent rim. Two circular perforated protrusions extend from one side of the rim. The base is flanged and decorated with thin incised concentric lines. The pot tempered with sand is dark grey. Exterior mouth diameter – 28cm, interior mouth diameter – 25.5cm, body diameter – 27cm, height – 9cm.

## **Grave 61**

This grave was opened up in the south of the excavation site. The stones covering the grave were exposed at 90cm depth. The grave fill largely consisted of fine-grained soil. The grave was small and had only 2 covering stones. The burial chamber measured 75cm north-south and 80cm west-east. The grave produced two fragmentary pottery vessels and badly preserved human skeletal remains. The skeleton was that of a child buried in a flexed position on its right side with the head at the west end of the burial chamber. The skeleton's hands were stretched towards its face. There was a dopu placed between the hands and skull of the skeleton. The skeleton was 60cm long.

## **Finds**

### ***Pottery***

1. Thin-walled jug with a flat narrow base, bulgy body, short-neck and outwardly bent rim. The shoulder is decorated with parallel incised lines. The pot is tempered with sand and fired to a dark grey surface. Mouth diameter – 12.5cm, body diameter – 27cm, height – 25.5cm, base diameter – 7.5cm.

2. Medium-sized wheel-thrown bowl-type pot with a wide mouth and outwardly bent rim. The mouth is formed as a continuation of the body. The pot is sand-tempered and of a dark grey colour. There is a pressed in line running around the body circumference. Exterior mouth diameter – 15cm, interior mouth diameter – 13.5cm, body diameter – 16cm, height – 10cm.

### ***Metal Objects***

1. Bronze bracelet with broken off terminals. The surface is decorated with deep notches so as the bracelet looks like it is composed of separate interlocking elements rather than a continuous solid cast sheet-bronze. Diameter – 3.8-5.3cm.
2. Bronze ribbon-shaped bracelet having overlapping terminals with flattened ends. Diameter – 5.2-6cm.

## **Grave 62**

The grave dug at a depth of 1.2m measured 0.9m by 1.4m and had a two-stepped floor. The west half of the grave was 10cm higher than its east half. There were 2 jugs and 3 platters on the higher step and 2 platters on the lower step. The pots were black and dark grey coloured. The body was laid on the platters in the lower, east part of the grave. It was buried tightly flexed on its right side with the head at the west end of the grave. Although the skeleton itself was very small (50cm), the skull was that of a mature-age adult. The left hand was placed under the head; the right hand lay against the face (Plate 46).

There was a bronze bracelet on each wrist and a bronze needle in front of the forehead. A bronze ring was found on one of the fingers of the left hand and 41 agate beads were collected from the neck region of the skeleton. A fragment of a quernstone was excavated at 70cm depth in the east corner of the grave fill.

### **Finds**

#### ***Pottery***

1. Dark grey narrow-mouthed jug decorated with two bulgy twisted rope lines on the shoulder. Height – 29.6cm, mouth diameter – 14.8cm, body diameter – 31.2cm, base diameter – 11.5cm.
2. Jug-type pot with a biconical body. The area below the mouth is girded with obliquely applied thin parallel patterns. The same section of the pot has an applied moulded lug with a smooth surface. Two parallel channel-like lines extend around the body of the pot. Height – 15.6cm, mouth diameter – 14.2cm, body diameter – 25cm, base diameter – 10cm.
3. Small platter-type pot. The central portion of the shoulder is bulgy. The body from the shoulder down to the base is decorated with wide burnished strips. The bottom side surface of the base shows a cross-shaped ornament. Height – 6.5cm, diameter – 20.6cm, base diameter – 7cm.
4. Small platter-type pot with an ear-shaped handle on the shoulder. From that level down to the base the pot is decorated with wide burnished strips. Height - 6cm, diameter – 20.5cm, base diameter – 7.5cm.
5. Large platter-type pot with an ear-shaped handle on the shoulder. From that level down to the base the pot is decorated with thin burnished lines. The bottom side surface of the base has an edge-to-edge cross-shaped ornament. Height – 8.5cm, diameter – 29cm, base diameter – 10cm.
6. Large undecorated handleless platter-type pot. Height – 8.5cm, diameter – 28cm, base diameter – 9cm.
7. Platter-type pot with a bulgy central portion of the shoulder. Only the base yielded measurements. Base diameter – 9cm.

#### ***Metal Objects***

8. Flat bronze wire bracelet with parallel terminals. Diameter – 4cm, width – 6mm.
9. Circular cross section bronze wire bracelet with parallel interlocked terminals. Diameter – 1.7cm.
10. Bronze needle. Length – 9.7cm.

#### ***Beads***

11. Forty one small round, flat and barrel-shaped red agate beads.

### ***Other Finds***

**12.** Fragment of an oblong-shaped quern made of tufa. Length – 19.6, width -11.3cm, thickness – 5.5cm.

### **Grave 63**

This was an earth grave located near the raised ground in the west part of the necropolis. The grave had been damaged by the 2m wide SCP pipeline trench dug lengthwise through the central part of the necropolis. The burial was cut through width way and the crushed remains of some of the pottery vessels were detected on the trench floor. The grave uncovered 57cm below the surface was 130cm long east-west by 50cm wide. The burial chamber was 35cm deep. The grave had a stony and sandy fill. The stones around the pots in the grave were grouted with a special clayey substance. The pots recovered from the grave were largely well preserved, but cracked under the weight of heavy machines used during site preparation. The grave produced 11 pots of different functions and one stone object. Six of the pottery vessels were intact or partially fragmentary; the remaining five were completely disintegrated. No human or animal bone was contained in the grave.

### **Finds**

#### ***Pottery***

- 1.** Black, fine sand-tempered well fired platter-type pot. There are deep traces of heat and soot on the interior. Partially reconstructed. The rim is flat and bent outwards. The interior surface is decorated with alternate straight and wavy incised lines extending from the mouth down to the base. The exterior shows incised lines alternately straight and wavy from the shoulder down to the base. The pot has no lug handles. Height – 8.5cm, neck height – 3.7cm.
- 2.** Grey platter-type pot. Poorly executed and fired at an unstable temperature. The undecorated surface is well polished; the wall thickness is 0.5cm. The rim is flat and extends 1.4cm outward. The shoulder height is 4cm. An ear-shaped lug handle extends upward from the shoulder. The handle diameter is 3.5 x 3cm. Other measurements could not be taken.
- 3.** Black well executed platter-type pot mended from pieces. The pot fired at a stable temperature has a well polished surface. The interior surface is covered with a film-like deposit. The exterior has black painted incisions. Height – 7.7cm, neck height – 3cm, base diameter – 6cm.
- 4.** Grey well executed platter-type pot tempered with fine sand. The rim is flat and extends 1.4cm outward. The perforated handle below the shoulder is directed upward. Height – 10.5cm, mouth diameter – 28cm, base diameter – 10.3cm, hole diameter – 1cm.
- 5.** Grey well executed and well fired platter-type pot mended from pieces. Tempered with fine sand the pot has 0.6cm thick walls. Both the interior and exterior are well polished. The pot surface from the shoulder down to the base is decorated with black painted Sun-shaped incisions. A single bow-shaped lug extends from the lower part of the shoulder. The mouth portion is flaring. Height – 10.5cm, mouth diameter – 24cm, body diameter – 28cm, base diameter – 9cm.
- 6.** Large black wide-mouthed platter-type pot with deep traces of heat on the outer surface. Traces of a potter's wheel are clearly seen on the internal surface. There are patches of a film-like deposit on the exterior surface. A wavy rib runs around the mid section of the shoulder. The pot has a triangle-shaped perforated lug handle on the shoulder. The shoulder is decorated with incised patterns. The base has a bulge that prevents it from remaining steady. Height – 13cm, shoulder height – 4cm, mouth diameter – 32.5cm, base diameter – 11cm.
- 7.** Fragments of a grey platter-type pot tempered with fine sand and grit. The pot was partially reconstructed. Both the interior and exterior of the pot are polished and have black painted Sun-shaped incisions. Height – 14cm, shoulder height – 4cm, mouth diameter – 30cm, base diameter – 10.7cm.

8. Fragments of a partially reconstructed jug-type pot. The pot fired at a stable temperature to a light red surface bears deep traces of heat. There are four notched wave-shaped bulgy lines on the shoulder. Height – 10.5cm, mouth diameter – 12.7cm, body diameter – 16cm, base diameter – 8.5cm.

9. Grey jug-type pot tempered with fine sand and grit. The pot has a biconical body with a row of notched spike-shaped patterns on the shoulder. The surface is partially polished. Height – 10.5cm, mouth diameter – 12.7cm, body diameter – 16cm, base diameter – 8.5cm.

10. Light grey well executed and well fired cooking-type pot tempered with grit. The pot has a globular body and an everted rim. There are 4 suspension holes symmetrically drilled 1cm below the rim on either opposing side of the pot. Two grooved lines with a 4.5cm gap in between extend around the mid section of the body. The space between these lines is ornamented with slanting incisions. The body section above the upper grooved line is decorated with triangle-shaped incisions. The section beneath the lower groove bears vertical incisions. The blank areas between these incisions are painted black. Handle height – 9.5cm, base diameter – 9cm.

### ***Other Finds***

11. Quern made of a stone of hard composition. The object became unfit for use and therefore was utilized as a covering material. Both surfaces of the tool are well worked and have depressions caused by rubbing. Thickness – 9cm, length – 57cm, width – 26cm.

## **Grave 64**

Grave 64 was exposed 60cm below the surface. The burial chamber was covered with 4-5 large river-washed stones. The grave aligned west to east was 3.4m long by 1.5m wide. The height from the grave floor to the ground surface was 1.3m. The burial chamber had a circular shape and did not contain a human skeleton. The grave had a loose yellowish fill differing from the surrounding gravel-rich soil material. All the pottery ware discovered in the burial chamber was fragmentary.

Excavation revealed a sacrifice place 1.3m north-west of the burial chamber. The feature exposed at a depth of 70cm measured 70cm in length by 60cm in width. It was constructed of small and medium-sized river-washed stones and had a yellow gravel-rich sandy fill containing small pottery sherds. The sherds came from 4 different pottery vessels. Some of the vessels have been mended.

## **Finds**

### ***Pottery***

1. Fragments of a grey, fine sand-tempered jug-type pot having 1cm thick walls. The pot is well executed and well fired. The rim is everted extending 1.5cm outward. The neck is small and formed as a continuation of the globular body. The base is decorated with oblique notches. Base diameter - 11cm.

2. Fragments of a well executed and well fired platter-type pot tempered with fine sand and grit. The rim is everted extending 1.5cm outward. The shoulder is bulgy. The pot has no decorative elements on the surface.

3. Fragments of a well executed and well fired platter-type pot. The pot was partially reconstructed. There are patches of a film-like deposit on the interior and exterior of the vessel. The diameter of a single ear-shaped lug handle is 3.5 x 1.5cm. Height – 11cm, shoulder height – 3.5cm, mouth diameter – 30cm, base diameter – 9cm.

4. Fragments of a black well executed, well fired platter tempered with fine sand. The surface is well polished. Traces of a potter's wheel are clearly seen on the interior. The pot has no handles. Shoulder height – 3.5cm, mouth diameter – 20.7cm, wall thickness – 0.6cm.

### **Grave 65**

Grave 65 was badly damaged. The larger portion of the burial chamber was destroyed by the pipeline trench traversing the central part of the necropolis. The burial chamber had an east-west alignment and its survived part measured 70cm in length by 40cm in width. The chamber had a 15cm covering consisting of small river-washed stones and underlying gravel-rich soil material grouted together with a special clayey substance. The grave was uncovered 60cm below the ground surface. The burial chamber was 32cm deep. Badly damaged the grave did not produce much cultural material.

#### **Finds**

##### *Pottery*

1. Perforated ear-shaped lug handle of a platter-type pot. Dimensions - 4.5 x 2.5cm, hole diameter – 1cm.

##### *Metal Objects*

2. Bronze bracelet with both ends meeting. The item is made of bronze wire having a circular cross section. One terminal end is rounded; the other is pointed. Diameter – 4cm.

### **Grave 66**

Grave 66 was exposed at 75cm depth close to the south wall of the 2m wide pipeline trench excavated in the central part of the necropolis. The exact boundaries of the burial chamber could not be defined as the major portion of the grave was destroyed by the excavated trench. The remaining portion of the burial chamber was 80cm by 55cm in size. The grave had a loose yellow fill containing a few pottery sherds. No human skeletal remains or animal bone were encountered in the grave.

#### **Finds**

##### *Pottery*

1. Fragments of a medium-sized light red jug-type pot with a surface completely covered with a film-like deposit. The pot was partially reconstructed. The wall thickness is 0.8cm. The pot is well executed, well fired and has a well polished surface. The body and the base are decorated with encircling bulgy lines. Base diameter – 12.5cm.

2. Fragments of a small black jug covered with a film-like deposit. The pot was partially mended. The wall thickness is 0.9cm; traces of a potter's wheel are clearly seen on the inner surface. Base diameter – 9.2cm.

### **Grave 67**

This earth grave was detected in the south wall of the pipeline trench running through the centre of the necropolis. Part of the burial chamber was partially destroyed. The burial chamber aligned east to west measured 180cm in length by 90cm in width. The grave pit was 35cm deep and had a yellow sandy fill.

A human skeleton was exposed in the grave. It was laid with the legs semi-flexed at the knees and the arms bent and drawn up to the face turned to the south. The skeleton had an east-west alignment. The upper jaw was found on the skull; the lower jaw, heavily disintegrated, lay under

the skull in the neck region. The grave yielded considerable quantities of pottery ware, metal objects and beads. The skeleton was buried placed on the pottery vessels, most of which were intact.

## **Finds**

### ***Pottery***

- 1.** Poorly executed grey cooking-type pot fired at an unstable temperature. The walls are 0,7cm thick. The rim is bulgy and outcurving; the body is globular. Part of the broken ribbon-shaped moulded handle extends from below the shoulder. Triangular and diamond-shaped patterns cover the pot surface from the mouth down to the base. Height – 18.5cm, mouth diameter – 17.5cm, body diameter – 34cm, base diameter – 11cm.
- 2.** Black platter-type pot tempered with fine sand and grit. The rim is flat and outcurving. A single handle of 4cm by 3cm is directed upward. The outer surface has black painted incisions; the inner surface is decorated with curved wave-shaped lines. Height – 9.5cm, shoulder height – 2.5cm, mouth diameter – 28cm, base diameter – 8.5cm.
- 3.** Poorly executed black platter fired at an unstable temperature. The shoulder is bulgy and has an ear-shaped lug handle. There are incisions and painted wavy lines on the interior and incised lines close to the base on the exterior of the pot. Height – 8cm, shoulder height – 3cm, mouth diameter – 28cm, base diameter – 7cm.
- 4.** Black platter-type pot tempered with fine sand. The pot is nearly complete except for a few breaks at the rim. The shoulder is bulgy and has a single lug handle. Height – 8.5cm, shoulder height – 3cm, mouth diameter – 28cm, base diameter – 9cm.
- 5.** Black platter-type pot tempered with fine sand. Parallel wave-shaped lines can be seen on the interior surface of the pot. The pot has a single handle-like protrusion. Height – 10cm, shoulder height – 3cm, mouth diameter – 28.5cm, base diameter – 11.5cm.
- 6.** Black platter-type pot with traces of heat and soot on the surface. The pot was fully mended. Well executed and fired at a stable temperature. The rim is outcurving. The outer surface from the base up to the mouth is decorated with incised lines. Height – 9.5cm, shoulder height – 3.5cm, mouth diameter – 27cm, base diameter – 10cm.
- 7.** Grey platter-type pot tempered with fine sand and grit. The walls are 0.5cm thick. The neck is bent inward. The surface is well polished. Height – 9.5cm, shoulder height – 4cm, mouth diameter – 27cm, base diameter – 9cm.
- 8.** Poorly executed grey platter-type pot fired at an unstable temperature. The rim is flat and outcurving. There are chips and cracks on both the interior and exterior surface of the pot. The pot has a single upwardly directed handle-like protrusion. Height – 10cm, shoulder diameter – 3.5cm, mouth diameter – 30cm, base diameter – 8cm.
- 9.** Well executed and well fired black platter-type pot tempered with fine sand. The pot was partially mended. The rim is outcurving; the shoulder is bulgy. There are black painted patterns on both the interior and exterior of the pot. Height – 9cm, shoulder height – 3.5cm, mouth diameter – 28cm, base diameter – 9cm.
- 10.** Black platter-type pot tempered with fine sand and grit. Poorly executed and fired at an unstable temperature. The rim is flat and outcurving. The surface is polished and well painted. Groups of carelessly executed incised lines extend from the vessel mouth down to the base. Height – 9.5cm, shoulder height – 4cm, mouth diameter – 30cm, base diameter – 8cm.
- 11.** Fine sand-tempered dark grey platter-type pot with a flat outcurving rim. The pot has a single ear-shaped lug handle. The interior and exterior surfaces have wave-shaped incised patterns. Height – 9.5cm, shoulder height – 3.5cm, mouth diameter – 28cm, base diameter – 7.5cm.
- 12.** Black platter-type pot tempered with fine sand and grit. The walls are 0.5cm thick. Poorly executed and fired at an unstable temperature. The surface is decorated with incised lines. The pot has a single lug-handle. Height – 10cm, shoulder height 4cm, mouth diameter – 28.5cm, base diameter – 8cm.

13. Plain, grey platter decorated with incised lines. Height – 10cm, shoulder height – 3.2cm, mouth diameter – 25cm, base diameter – 8.5cm.
14. Plain, grey platter decorated with incised lines. Height – 10cm, shoulder height – 3.5cm, mouth diameter – 27.5cm, base diameter – 9cm.
15. Plain, black platter tempered with fine sand and grit. Height – 8.5cm, shoulder height – 3.5cm, mouth diameter – 28cm, base diameter – 9cm.
16. Plain, black platter-type pot with incised wavy lines on the interior and exterior surfaces. The interior shows deep traces of heat. Height – 9cm, shoulder height – 3cm, mouth diameter – 29.5cm, base diameter – 9.5cm.
17. Large black platter made in a plain style. Poorly executed and fired at an unstable temperature. Height – 10cm, shoulder height – 4cm, mouth diameter – 29cm, base diameter – 9.5cm.
18. Fragments of a black platter tempered with fine sand and grit. Made in a plain style. The interior and exterior surfaces are decorated with straight incised lines. The pot has a single handle-like protrusion. The pot did not yield measurements.
19. Intact, finely executed dopu-type pot fired at a stable temperature. The undecorated pear-shaped body is well polished. The neck is narrow; the mouth is flaring. Height – 13cm, neck height – 5cm, mouth diameter – 6cm, body diameter – 9.5cm, base diameter – 5.5cm.
20. Fragments of a plain well fired black platter tempered with fine sand. The interior is decorated with incised wavy lines. The pot did not yield measurements.
21. Small fully mended jug with a biconical body and outcurving rim. The surface is partially polished. Painted triangular-shaped decorations extend from the body up to the mouth. Height – 9cm, mouth diameter – 7cm, body diameter – 11cm, base diameter – 5.6cm.
22. Black partially mended churn-type pot tempered with fine sand and grit. The walls are 0.6cm thick. The surface is well polished. Undecorated. The measurements could not be taken.

### *Metal Objects*

23. Bronze needle with a circular threading eye. Length – 8.7cm. The item broken into three pieces was found in pot 5 recovered from the grave (Figure 38.3).
24. Poorly preserved bronze needle broken into three pieces. Length – 6.8cm. The item was found in pot 6 recovered from the grave (Figure 38.5).
25. Bracelet made of bronze wire having a circular cross section. Poorly preserved. The item was found in the arm-elbow region of the skeleton. The bracelet is open-ended with a 1.8 gap between the terminals. Diameter – 4.5cm (Figure 38.1).
26. Bracelet made of bronze wire having a circular cross section. Broken into two pieces, the item was lifted from the elbow area of the skeleton. The bracelet is open-ended with a 1.3 gap between the terminals. Diameter – 3.5cm (Figure 38.2).

### *Beads*

27. Six well made agate beads – five are red; one is light red. Manufactured by a chipping technique. All were found in the neck region of the skeleton. The central hole of all beads is 0.3cm in diameter. Three of the beads have an oval elongated shape and measure 1-1.28cm in length. The remaining three are circular in shape and measure 0.6 x 0.5cm in size (Figure 31.12-17).
28. White paste beads having a circular cross section. Some beads are oval elongated in shape; some are barrel-shaped. The total number of beads is 110. All have thread holes in the centre. The beads were found in the neck region of the skeleton.
29. Blue paste beads having a circular cross section. Some beads are oval elongated in shape; some are barrel-shaped. The total number of beads is 150. All have thread holes in the centre. The beads were found in the neck region of the skeleton.
30. Well worked white seashell bead. One surface is flat and smooth with the central part twisted inward; the other surface is bulgy. The central hole is 0.6cm in diameter. There are holes on both

ends of the bead. Bead diameter – 2cm. The bead was found on the skull of the skeleton Figure 31.11).

### ***Other Finds***

**31.** Perforated bone jewellery item broken into three pieces, but reconstructed. The surface is well worked and smooth. Length – 9.5cm, hole diameter – 0.9cm. The item, thought to be a hair decoration, was found in pot 18 recovered from the grave.

## **Grave 68**

Grave 68 was exposed 12cm below the surface in the north facing section of the excavation trench. The west part of the grave was characterized by gravel-rich deposits, while the soil in the east part the grave consisted of a yellow, sandy and clayey fill. The grave was 87cm long north-south and 70cm wide west-east. Four or five medium-sized river-washed stones were removed from the grave surface and it became clear that the burial chamber was truncated by machines. This fact was once again confirmed by the state of pottery ware found in the grave – only the lower sections of the pots had been preserved. Other fragments were seen widely scattered all over the grave floor. No human remains or animal bones were found in the grave. The grave was 14cm deep.

### **Finds**

#### ***Pottery***

- 1.** Fragments of a plain, carefully executed and well fired, black platter-type pot tempered with fine sand and grit. The pot has no handle-like protrusions. The surface is decorated with incised patterns. Height – 9cm, shoulder height – 3cm, mouth diameter – 30cm, base diameter – 10cm.
- 2.** Plain platter-type pot with a slightly outcurving rim and a handle-like protrusion. The outer surface is decorated with circular incisions. Height – 9cm, shoulder height – 3.5cm, mouth diameter – 32cm, base diameter – 10cm.
- 3.** Fragments of a partially mended platter. The entire surface is covered with a film-like deposit. The pot has thick walls and an ear-shaped handle on the shoulder. Height – 7cm, shoulder height – 3cm, mouth diameter – 27cm, base diameter – 8cm.
- 4.** Fragments of a partially reconstructed grey jug with a circular cross section handle on the shoulder. The body bears grooved patterns bordered above and below with encircling grooved lines. Base diameter – 8cm.

#### ***Metal Objects***

- 5.** Bronze chain, presumably used as chest jewellery. The item consists of 8 interlocking bronze links of a circular cross section. The surface is covered with patches of patina. Link length – 1.7cm, link width – 0.7cm, chain length – 10.5cm.

#### ***Other Finds***

- 6.** Light red agate stone found in platter-type pot 1 recovered from the grave. The stone with traces of working is 2.2 x 1.7cm in size. It could be assumed that beads were chipped out of this stone. However, the process of chipping was stopped half way for some reason.

## **Grave 69**

Grave 69 uncovered at a depth of 125cm was a very large earth grave. The grave had a west-east alignment and measured 150cm in length by 102cm in width. The depth of the burial chamber was 30cm. As opposed to the surrounding stony and gravel-rich soil material the grave fill

consisted of loose, sandy yellow soil. Very peculiar mortuary practice was traced in Grave 69. Two human skeletons and one animal skeleton were discovered in the grave. One of the human skeletons was found close to the west wall of the burial chamber. The body was buried stretched out west-east in the grave with the arms bent up towards the face and legs partially flexed at the knees. Preservation of bones was good. The skull with the face turned to the north was placed inside a large platter. A bronze bracelet was recovered from above the wrist bone. The neck area of the skeleton produced beads made of white paste and dark red agate. Two platter-type pottery vessels were found behind the skull and a small jug at the top part of the grave.

The second human skeleton was aligned west-east with the face turned to the south. Only the lower part of the skeleton up to the pelvis was found. The bones of the deceased buried semi-flexed at the knees were rather large. Presumably the skeleton was that of a male of large stature. The hip bone was 57cm long with the tibia length being 47cm. The absence of the any bones of the body above the pelvis suggests that the deceased was either disarticulated before burial or was killed on the battlefield. Facing this skeleton in front of it was a sheep or goat skeleton. The animal's skull was also found placed in a platter. The area between the animal skull and the pelvic bones of the second human skeleton yielded a bronze needle, an earring and large quantities of paste and agate beads. The grave also produced 10 pottery vessels. Some of these were intact and some fragmentary.

## **Finds**

### ***Pottery***

1. Poorly executed grey jug-type pot with a slightly outcurving rim. There are two grooved lines encircling the pot slightly below the mouth. Beneath are notched patterns vertically directed towards the body. The areas between these patterns are painted in black. Three grooved lines form a pattern around the body of the pot. The outer surface is well polished. Height – 30cm, mouth diameter – 12cm, body diameter – 30cm, base diameter – 13cm.
2. Fragments of a grey jug tempered with fine sand and grit. Well executed and well fired at a stable temperature. The pot, partially reconstructed, has a flanged rim extending 1.3cm outward and 2 small ear-shaped lug handles. Three parallel grooved lines run around the shoulder. The outer surface is well polished. Height – 18cm, mouth diameter – 14cm, body diameter – 24.5cm, base diameter – 9cm.
3. Small poorly executed grey platter with a 0.8cm wide outcurving rim. The shoulder decorated with painted strips has a single lug handle. Height – 7.5cm, shoulder height – 3cm, mouth diameter – 18cm, base diameter – 9cm.
4. Poorly executed fine sand-tempered black platter-type pot with an everted rim and lug handle. Height – 7cm, shoulder height – 3.5cm, mouth diameter – 34cm, base diameter – 10.5cm.
5. Plain, black platter with a lug handle. The surface is well polished and decorated with incisions. Height – 7.5cm, shoulder height – 3.5cm, mouth diameter – 39.5cm, base diameter – 10.5cm.
6. Poorly executed grey platter with incised decoration on the surface. Partially reconstructed. Height - 7cm, shoulder height – 3cm, mouth diameter – 29cm.
7. Well executed and well fired black bardag. The surface is well polished and painted black. A single handle connects the rim and shoulder of the pot. The handle has a circular cross section and is thicker at the points of attachment and relatively thin in the central part. There are protuberances on the upper and lower ends of the handle. The handle surface is decorated with bulgy and hollow wave-shaped incised patterns. Height – 18cm, shoulder height – 9.5cm, mouth diameter – 8.5cm, body diameter – 27cm, base diameter – 10cm.
8. Plain, black platter with a handle-like projection. The polished surface has incised decoration. Height – 10cm, shoulder height – 3cm, mouth diameter – 27cm, base diameter – 9cm.
9. Plain, black platter with wave-shaped incised decoration on the interior surface. Height – 8cm, shoulder height – 3.5cm, mouth diameter – 30cm, base diameter – 8.5cm.

10. Well executed undecorated black platter with a lug handle (now missing). There are obvious traces of heat and soot on the surface. Height – 7cm, shoulder height – 3cm, mouth diameter – 27cm, base diameter – 9.5cm.

### ***Metal Objects***

11. Well preserved bronze needle having a circular cross section. Portion of the surface is covered with patina. One end is pointed; the other end has a threading eye. The object was found inside pot 6. Length – 9.7cm (Figure 32.1).

12. Well preserved intact bronze needle of a circular cross section. The surface is partially covered with patina. One end is pointed; the other end has a threading eye. The object was found inside pot 7. Length – 9.9cm (Figure 30.11).

13. Well preserved bronze needle of a circular cross section. Nearly intact although there are some chips on the surface. Portion of the surface is covered with patina. The needle eye is 0.2cm in diameter. The object was found inside pot 10. Length – 14.4cm. Being very long, the needle could have possibly been used as an awl as well (Figure 30.12).

14. Circular cross section bronze bracelet with a thick middle part getting thinner towards the ends. There is a 1.5cm gap between the terminal ends. Remnants of copper smelting are clearly seen on the surface. The bracelet was recovered from the wrist area of the skeleton. Bracelet diameter – 8 x 6cm (Figure 30.14).

15. Bronze earring with both ends meeting. The object is circular in cross section and has a notched surface. The object was found above the right ear of the skeleton. Diameter – 2.6cm (Figure 30.13).

### ***Beads***

16. Eight intact seashell beads. One surface is flat and smooth, while the other surface is twisted circularly inward. Both ends have thread holes, measuring 0.7-1cm in diameter. There are chips and breaks on the surface. The beads were found in the neck region of the skeleton (Figure 21.30-32).

17. Twelve agate beads – 2 of these are dark red, 7 are red and 3 are light red. Each bead has a 0.3cm diameter thread hole drilled through its centre. All are barrel-shaped with the two being rather elongated. Length – 2.8cm. The beads were recovered from the neck area of the skeleton (Figure 22.9-27).

18. Sixty three very small white paste beads of a circular cross section. All are barrel-shaped. Length – 0.3cm. The beads were recovered from the neck area of the skeleton (Figure 31.22).

19. Round perforated white paste bead. Diameter – 1cm, hole diameter – 0.3cm. The bead was found in the neck area of the skeleton (Figure 31.21).

## **Grave 70**

Grave 70 was uncovered 125cm below the ground surface. The grave measured 180cm in length west-east by 160 in width north-south. The burial chamber was 45cm deep; the height from the grave floor up to the surface was 170cm (Figure 9).

The burial chamber, roughly oval in shape, had a yellow fill and contained a skeleton most probably of an adult male. Preservation of the skeleton was good. The skeleton had a west-east alignment with the head turned to the south-west. The position of the skeleton prompted that it had been laid upon the pottery vessels. The legs were semi-flexed at the knees; the arms flexed at the elbows were stretched upwards towards the face. The grave produced large quantities of intact and fragmentary pottery and metal objects.

### **Finds**

## **Pottery**

- 1.** Fragments of a plain, black platter-type pot with a lug handle. The pot was partially mended. The surface is well smoothed and polished. Incised decoration can be seen on both the interior and exterior of the pot. Height – 10cm, shoulder height – 3.5cm, mouth diameter – 31cm, base diameter – 9.5cm.
- 2.** Grey platter tempered with fine sand and grit. The pot has painted wave-like and zigzag decoration on the shoulder. Height – 10cm, shoulder height – 3.5cm, mouth diameter – 31cm, base diameter – 9.5cm.
- 3.** Black platter-type pot with a well polished surface. The entire exterior and interior surfaces are decorated with incised patterns. Height – 8cm, mouth diameter – 28cm, base diameter – 8cm.
- 4.** Fragments of a black partially reconstructed platter with a flat everted rim and a handle-like protrusion on the shoulder. Both the interior and exterior surfaces are polished. Height – 10cm, mouth diameter – 31cm, base diameter – 9.5cm.
- 5.** Well executed black platter with a handle-like protrusion on the shoulder. Height – 5.5cm, mouth diameter – 25cm, base diameter – 8cm.
- 6.** Plain black platter. Height – 10cm, mouth diameter – 31cm, base diameter – 9.5cm.
- 7.** Black platter with a lug handle on the shoulder. The surface is decorated with incisions. The pot could not be repaired. Height – 10cm, mouth diameter – 29cm, base diameter – 8.7cm.
- 8.** Well executed grey platter with a lug handle on the shoulder and well polished surface painted black. Height – 10cm, mouth diameter – 31cm, base diameter – 9cm.
- 9.** Base fragment of a poorly executed platter recovered from under platter 8. Diameter – 9.5cm.
- 10.** Well executed grey platter with a handle-like projection on the shoulder. The 1.4cm wide flat rim curves outward. The surface with incised decoration bears deep traces of heat. Height – 8cm, shoulder height – 2.5cm, mouth diameter – 28cm, base diameter – 8cm.
- 11.** Black platter-type pot tempered with fine sand. Well executed and fired at a stable temperature. The pot with a lug handle on the shoulder bears a symbolic image of the Sun. Height – 9cm, mouth diameter – 28cm, base diameter – 10cm.
- 12.** Fragments of a poorly executed black platter. Height – 9.5cm, mouth diameter – 28cm, base diameter – 9.5cm.
- 13.** Black platter-type pot tempered with fine sand. Well executed and fired at a stable temperature. The surface is well polished. Height – 9cm, shoulder height – 3cm, mouth diameter – 31cm, base diameter – 10cm.
- 14.** Light grey platter-type pot tempered with fine sand. Well executed and fired at a stable temperature. The surface is well polished. Height – 6.5cm, shoulder height – 3cm, mouth diameter – 23cm, base diameter – 6cm.
- 15.** Black dopu tempered with fine sand. Well executed and well preserved. Traces left by a potter's wheel are clearly seen on the interior surface. The neck is narrow and gently passes into a rounded shoulder. The surface is well polished and coated with angobe. Height – 11cm, mouth diameter – 6.5cm, base diameter – 5cm.
- 16.** Small black dopu with deep traces of heat on the interior and exterior surfaces. Poorly executed and fired at an unstable temperature. The rim is bent outwards in a circular curve. Height – 10cm, mouth diameter – 5.5cm, body diameter – 9.5cm, base diameter – 5.9cm.
- 17.** Medium-sized black handleless jug tempered with fine sand and finely crushed grit. Well executed and well fired. The rim is outcurving. The surface is well polished. The shoulder has an applied moulded ram's head decoration, 4cm in length. The horns are very delicately depicted. Height – 25cm, mouth diameter – 15cm, body diameter – 36cm, base diameter – 11cm.
- 18.** Poorly executed grey handleless jug with an outcurving rim. The undecorated surface is well polished. Height – 6cm, mouth diameter – 29cm, body diameter – 10.5cm, base diameter – 11.5cm.
- 19.** Well executed medium-sized grey jug tempered with fine sand and well fired at a stable temperature. The neck is high; the rim curves outward. There are incised lines running around the neck and shoulder. The shoulder has two ribbon-shaped handles. Each handle is 54cm wide. There are moulded dots at the point of the upper handle attachment. The surface is well polished.

Height – 42cm, handle height – 4.5cm, neck height – 4.5cm, mouth diameter – 12.5cm, body diameter – 38cm, base diameter – 12.5cm.

20. Plain black platter-type pot with a well polished painted surface. Height – 10cm, mouth diameter – 30cm, base diameter – 8.9cm.

### ***Metal Objects***

21. Bronze javelin head found in the south-west wall of the burial chamber. The javelin head is 16cm long and has a tang for securing to a wooden shaft. For fixing the shaft the tang has a rivet hole near its end. The javelin tang was shaped into a tube by hammering. There is a prominent midrib on the blade. The tip is pointed; the edges are sharp (Figure 27.2).

22. Bronze needle having a circular cross section. Broken into 4 pieces, including the needle eye portion. Length - 11.5cm.

23. Broken bronze finger ring of a circular cross section. There are chips and breaks on the surface. Diameter – 2cm.

## **Grave 71**

This earth grave exposed at a depth of 62cm below the ground surface was almost completely destroyed by pipeline trenching. The grave was covered with earth and 3 or 4 medium-sized river-washed stones. The outer edges of the burial chamber could not be clearly defined. The part of the grave that yielded measurements was 70cm by 80cm. The burial chamber, 25cm deep, did not contain human or animal bones.

### **Finds**

#### ***Pottery***

1. Partially reconstructed black platter-type pot with an ear-shaped lug handle on the shoulder. Tempered with fine sand the pot is well executed and well fired at a stable temperature. The walls are 0.5cm thick. The entire surface is covered with a film-like deposit. The 1.1cm wide flat rim curves outward. There is an encircling prominent rib on the shoulder-to-body transition. Height – 6.5cm, shoulder height – 3cm, mouth diameter – 21.5cm, base diameter – 7.5cm.

## **Grave 72**

Grave 72 excavated at 136cm depth was aligned north to south. It measured 135cm in length and 130cm in width. The burial chamber was circular in shape and its exact boundaries could be defined. The depth of the burial chamber was 25cm. As distinct from the surrounding gravel-rich white ground, the grave had a yellow, sandy and clayey fill. When cleared out, the burial chamber exposed a spread of ashy, heat-affected ground. This layer of burnt soil was 120 x 80cm in diameter and extended along the west wall of the burial chamber. It contained burned and blackened human and animal bones. This suggested that a cremation ceremony took place at this grave. In addition some of the pottery ware found in the grave also bore deep traces of fire and soot.

Excavation revealed a sacrifice place 95cm below the ground surface, 15cm south-east of the burial chamber. The sacrifice place measured 85 x 95cm in diameter and yielded three densely adjacent pottery vessels. These were recovered from under the medium-sized river-washed stones. The sacrifice place was 35cm high (Figure 10)..

### **Finds**

#### ***Pottery***

1. Well executed and well fired grey platter tempered with fine sand. The surface is well polished and decorated with incised lines from the shoulder down to the base. Height – 8cm, shoulder height – 3cm, mouth diameter – 29.5cm, base diameter – 9.5cm.
2. Poorly executed grey jug. The clay contains finely crushed grit and soil granules. The pot is decorated with notched lines. Only the base portion yielded measurements. Base diameter – 8cm.
3. Poorly fired grey jug. The walls are 1.5cm thick. The clay contains white limestone chippings, grit and sand. The body is girded with a ribbed line. The pot did not yield measurements.
4. Well executed black bowl-type pot with a semi-biconical body and a 1.2cm wide flat rim extending 0.5cm outward. The distance between the mouth and body equals that between the body and base. Height – 7.5cm, shoulder height – 4cm, mouth diameter – 16cm, base diameter – 7cm.

### **Grave 73**

This earth grave was uncovered adjacent to the north wall of the 2m wide trench cutting through the centre of the necropolis. The burial chamber exposed at 120cm depth from the ground surface was easily distinguishable from the surrounding soil material. The burial chamber measured 220cm in length east-west and 120cm in width north-south and was 80cm deep. A portion of this elongated-shaped burial chamber was cut off by pipeline trenching.

Excavation revealed two adjacent jugs close to the east wall of the burial chamber and a large jug against its west wall. Platter-type pots were seen placed in the north facing section of the burial chamber. The human skeleton was discovered among these pottery vessels. Part of the skeleton below the ribcage was damaged and removed together with a portion of the burial chamber. The skull, arm and leg bones and some of the ribs had survived. The skull was oriented to the south-west. Its position suggested that the body was buried in a partially flexed position and had a northwest-southeast alignment with the head turned to the south-west.

A small (65cm by 62cm) sacrifice place was excavated 20cm north-west of the burial chamber. This was exposed 70cm below the ground surface, 130cm higher than the floor of the burial chamber. The sacrifice place, circular in shape was constructed of small river-washed stones and was 55cm high. The feature produced no material other than small pottery sherds (Figure 11).

### **Finds**

#### ***Pottery***

1. Well executed grey bardag with a handle of a circular cross section connecting the mouth and shoulder. The entire surface is covered with a film-like deposit. The body is banded with a grooved line. Height – 38cm, handle height – 9.5cm, neck height – 6.5cm, mouth diameter – 11cm, body diameter – 30cm, base diameter – 12.5cm.
2. Small well executed grey wide-mouthed dopu-type pot with a polished surface. Height – 38cm, mouth diameter – 7cm, body diameter – 9cm, base diameter – 6cm.
3. Well executed grey platter-type pot with black painted lines on the shoulder. Height – 7cm, shoulder height – 3cm, mouth diameter – 30cm, base diameter – 9cm.
4. Medium-sized grey jug with black painted decoration on the shoulder. Height – 22cm, body diameter – 29cm, base diameter – 9.5cm.
5. Plain platter with a handle-like projection on the shoulder. The interior and exterior surfaces have wavy and straight patterns painted in black. Height – 6.5cm, mouth diameter – 30cm, base diameter – 9cm.
6. Grey platter similar in shape to other pots. Height – 6cm, mouth diameter – 20cm, base diameter – 5cm.
7. Medium-sized narrow-necked jug with 2 ribbon-shaped handles connecting the body and shoulder. The shoulder has notched decoration, while the body bears black painted vertical wavy

lines. Handle height – 7cm, mouth diameter – 13cm, body diameter – 29cm, base diameter – 10cm.

8. Medium-sized globular body jug. The surface is well polished and bears notched decoration. The pot was fired at an unstable temperature. Height – 8cm, mouth diameter – 13.5cm, body diameter – 30cm, base diameter – 11.5cm.

9. Well executed medium-sized jug with incised and notched vertical wavy lines applied in black paint. The lower body section has a post-firing hole. Mouth diameter – 10cm, body diameter – 35cm, base diameter – 11cm.

### **Grave 74**

Grave 74 was discovered at 100cm depth below the ground surface. The grave was covered with medium-sized and large river-washed stones. This stone layer was up to 30cm in height. The grave, roughly oval in shape, was 120cm east-west by 120cm south-north. Small pottery sherds were noted among the first layer of stones. These largely represented well fired thick-walled pots. The second stone layer was formed by small and medium-sized river-washed stones. It measured 90cm in length west-east by 75cm in width north-south and was 20cm high. The underlying third layer was 70cm wide by 90cm long and 35cm high. The grave was exposed after removing this layer. The grave did not have a burial chamber with well defined edges. Varied pottery samples were recovered from the grave. No human or animal skeleton was contained in the grave.

The grave had a sacrifice place located 80cm west of it. The ground between the grave and sacrifice place consisted of loose soil. The sacrifice place had no stone covering. The sacrifice place was exposed at 95cm depth. It was 50 x 50cm in size and 65cm high. The feature yielded small pottery sherds.

### **Finds**

#### ***Pottery***

1. Medium-sized black long-necked jug. The pot is intact except for a few breaks at the mouth portion. The distance between the neck and body (6.5cm) is equal to that between the body and base. The surface is covered with a film-like deposit. Height – 14.5cm, mouth diameter – 11.5cm, body diameter – 17cm, base diameter – 6.7cm.

2. Large black jug with a long neck and globular body. The pot tempered with sand is well executed. The surface is polished. The neck portion is banded with two parallel bulgy lines. Height – 31.5cm, neck height – 7cm, mouth diameter – 14cm, body diameter – 2cm, base diameter – 9cm.

3. Black thick-walled jug-type pot with a globular body, high tapering neck and outcurving rim. Three parallel bulgy lines form a pattern around the shoulder. Height – 24.5cm, neck height – 7.5cm, mouth diameter – 13.5cm, body diameter 25cm, base diameter – 10.5cm.

4. Well executed globular body jug of a light grey-yellowish colour. The neck is short. There are two parallel notched lines extending around the shoulder. Height – 20cm, neck height – 2cm, mouth diameter – 13cm, body diameter – 23.5cm, base diameter – 8cm.

5. Undecorated light grey jug with a well polished surface. The pot was mended. Height – 19.5cm, mouth diameter – 11.5cm, body diameter – 19.5cm, base diameter – 8cm.

6. Fully mended, plain, thick-walled platter of a grey colour. Traces left by a potter's wheel can be seen on the interior surface of the pot. Height – 6cm, mouth diameter – 22cm, base diameter – 7.5cm.

7. Black platter with a handle-like protrusion. The surface is well polished. Both the interior and exterior of the pot are painted black. Height – 10cm, mouth diameter – 26cm, base diameter – 8.5cm.

### **Grave 75**

Grave 75 had a stone covering. It did not fall within the BTC and SCP pipelines construction corridor, however upon consent of the BTC representatives a decision was made to excavate it. The purpose of digging up this grave, located 24m north of the pipelines route was to provide evidence that the structure of the burials and mortuary practices employed at this graves are identical to those unearthed within the confines of the construction corridor. It should be noted that this grave belonged to the same necropolis.

Grave 75 was covered with large river-washed stones. These randomly arranged stones were clearly identifiable on the ground surface and covered an area 220cm long west-east by 150cm wide north-south. The stone cover was 50cm high. The stones were removed and a grave was exposed. However, this grave had no burial chamber and contained only sporadic spreads of pottery sherds. No human or animal skeleton was detected. The height between the grave floor and the ground surface was 1m. The grave had a gravel- and white clay-rich fill.

## **Finds**

### ***Pottery***

1. Medium sized well executed grey cooking-pot with a large mouth. Connecting the mouth and shoulder are two small square-shaped handles. There are four parallel grooved lines extending around the body. Height – 20.5cm, handle height – 6cm, mouth diameter – 20cm, body diameter – 26cm, base diameter – 11cm.
2. Grey bardag-type pot with a rim bent outward in a gutter-shaped curve. The pot has a single circular-shaped handle connected to the mouth and body. Heavily eroded, the pot could not be lifted, therefore the measurements were made in situ. Height – 12.5cm, handle height – 7cm, mouth diameter – 8cm, body diameter – 13cm, base diameter – 5.5cm.
3. Plain, grey platter with a well polished surface. Height – 10cm, mouth diameter – 28.5cm, base diameter – 7.5cm.
4. Plain, black platter with patches of a film-like deposit on the surface. Height – 11.5cm, mouth diameter – 31cm, base diameter – 10cm.

## **Grave 76**

Grave 76 was discovered at a depth of 102cm below the ground surface. It measured 275cm in length northwest-southeast by 160cm in width northeast-southwest. The grave was covered with a sparse spread of very small river-washed stones. The ground around the grave was a yellow sand- and gravel-rich soil material, whereas the grave fill within the burial chamber was characterized by loose, sandy and clayey yellow soil. This made it easy to define the edges of the burial chamber which contained medium-sized (7 x 9cm; 12 x 18cm) river-washed stones. The stones were largely concentrated against the north-west wall of the burial chamber. Close to this wall and extending from the pit top to its bottom was a 15 x 20cm diameter circular spread of ochre (Figure 12).

Two human skeletons were found in the burial chamber. The first skeleton was exposed at 54cm depth against the south-east wall of the burial chamber. The skeleton with tightly flexed knees was 84cm long. The skeleton's layout suggested the body slightly tipped to one side was buried face down on its chest. The skeleton with the skull facing the south had a northwest-southeast alignment. Preservation of the bones was relatively good. There were several pottery vessels placed in the belly, scapula and head areas of the deceased. Two pots were excavated adjacent to the north-west wall of the burial chamber. Both pots had medium-sized river-washed stones placed on their mouths. The cooking-type pot detected in the north-west corner of the chamber had evenly spaced red painted dots on its neck. Surrounded by pottery vessels, the position of the skeleton was more or less central in the burial chamber.

The second human skeleton was located 30cm away from the first skeleton, against the north-west wall of the burial chamber. It lay at a depth of 140cm from the ground surface. The body aligned northwest to southeast was buried in a partially flexed position with the arms bent at the elbows and drawn up to the face which was tilted to the south. There was a bronze button behind the neck bone and a bronze pendant in front and an obsidian flake on where the pelvis joined the backbone. The area where the second skeleton was found was covered with medium-sized river-washed stones. This stone layer covered an area of 1.2m by 1m and was uncovered at a depth of 175cm below the ground surface.

Grave 76 had two sacrifice places – one was located to the west of the grave, at a depth of 36cm above the burial chamber. It had a diameter of 35 x 45cm and was termed as Sacrifice Place 76A. It was excavated 80cm below the ground surface and yielded three pottery vessels.

Sacrifice Place 76B was located in the south-east facing section of the grave, 180cm away from its south-east wall. It was exposed at a depth of 85cm from the ground surface, 36cm above the burial chamber and measured 90 x 36cm in size. The fill of the sacrifice place was soft yellow soil clearly distinguishable from the surrounding gravel-rich grey substrate and yielded three pots - a platter, jug and bardag.

## **Finds**

### ***Pottery (Figures 39-40, 44)***

1. Thick-walled platter-type pot tempered with fine sand and well fired to a brown surface. The shoulder is straight; the rim is bent outwards. The pot is thrown on a potter's wheel and has a perforated lug handle extending perpendicularly from the shoulder. Height – 8cm, shoulder height – 2.5cm, mouth diameter – 24.5cm, base diameter – 9.5cm.
2. Plain, wheel-thrown platter-type pot of a brown colour. Height – 8cm, shoulder height – 3cm, mouth diameter – 20.5cm, base diameter – 7cm.
3. Brown thick-walled platter-type pot with a flanged rim bent outwards and perforated lug handle attached to the straight shoulder. Tempered with sand the pot was thrown on a potter's wheel and well fired. Height – 12cm, shoulder height – 2.5cm, mouth diameter – 28.5cm, base diameter – 8cm.
4. Wheel-thrown brown platter with a well polished surface. Height – 11cm, shoulder height – 2.5cm, mouth diameter – 28.5cm, base diameter – 8cm.
5. Black platter-type pot with a rudely shaped rim bent outward. The surface is decorated with vertical patterns applied by polishing. There is an applied ram's head moulded decoration on the shoulder. The nose portion of the image is elongated; the eyes are formed by two button-shaped moulded dots. The pot is wheel-thrown. Height – 35cm, mouth diameter – 14cm, body diameter – 31cm, base diameter – 12.5cm.
6. Well fired thick-walled jug with a narrow neck and outwardly bent rim. The shoulder and body portion of the pot bears lattice decoration. The pot is thrown on a potter's wheel. The pot did not yield measurements.
7. Brown platter-type pot with a straight shoulder and outwardly bent rim. The interior is decorated with wave-like lines; the exterior has straight sun-shaped ornaments. The base bears criss-cross polished lines. Height – 10cm, shoulder height – 3cm, mouth diameter – 29.7cm, base diameter – 6cm.
8. Thick-walled jug-type pot with a narrow neck and rim bent outwards. Tempered with sand and finely crushed grit the pot was well fired to a brown surface. The shoulder is banded with two horizontal deep-relief channel-like grooves. There are heat caused spots on the surface. Height – 52cm, neck height – 7cm, mouth diameter – 16.2cm, body diameter – 42.5cm, base diameter – 13cm.

9. Brown wide-bodied churn with a flat base, narrow neck and outwardly bent rim. Remnant of a flat-shaped handle with a blind mammiform hole extends from the shoulder decorated with two channel-like grooves. The pot surface is well polished. Height – 44cm, shoulder height – 4.5cm, mouth diameter – 11cm, body diameter – 30cm, base diameter – 10cm.
10. Large, black, wide-bodied jug with a long narrow neck and a flanged rim bent outward. The shoulder is banded with two horizontal deep-relief channel-like grooves. The exterior surface and upper rim interior surface are polished. Neck height – 7cm, mouth diameter – 16cm.
11. Poorly fired black pear-shaped thick-walled dopu tempered with sand and grit. The rim is flanged and bent outward. The surface is poorly polished. The pot did not yield measurements.
12. Brown platter-type pot with a straight shoulder and outwardly bent flanged rim. The body bears slight traces of polishing. The pot was made on a potter's wheel. Height – 9.5cm, shoulder height – 39cm, mouth diameter – 20cm, base diameter – 7cm.
13. Well fired brown narrow-mouthed jug with an outwardly bent flanged rim. The neck and shoulder portion has swastika images painted in red. The pot was made in a delicate style. Height – 52cm, neck height – 5cm, mouth diameter – 16.2cm, body diameter – 45cm, base diameter – 13cm.
14. Brown, wide-bodied jug-type pot with a flat base, narrow-neck and rim bent outward. The neck and shoulder have red painted decoration. Height – 35cm, neck height – 2.5cm, body diameter – 31cm, base diameter – 12.5cm.
15. Well fired thick-walled jug-type pot with an outwardly bent flanged rim. The pot was thrown on a potter's wheel. Height – 19cm, mouth diameter – 17cm, body diameter – 22cm.
16. Globular-bodied, narrow-necked kuza-type pot of a brown colour. The shoulder and rim are connected with a handle having a circular cross section. There are two encircling channel-like grooves on the shoulder. The neck-to-shoulder transition is decorated with straight line designs applied by polishing. Height – 24cm, neck height – 5.5cm, mouth diameter – 10cm, body diameter – 20cm, base diameter – 7.5cm.
17. Black, squat, low-bellied jug with a small footed base and outwardly bent flanged rim. The shoulder with circular perforated ear-shaped lugs on one side is girded with vertical incised lines. The surface is polished. The pot is wheel-thrown. Height – 22cm, mouth diameter – 12.5cm, body diameter – 28cm, base diameter – 11cm.
18. Black thick-walled jug with a narrow neck and wide body. Six channel-like grooves form a pattern around the shoulder and body. The pot was found in the sacrifice place. Height – 20cm, body diameter – 24.5cm.
19. Medium-sized black narrow-mouthed jug with a circular handle connected to the rim and shoulder. Four channel-like grooves extend around the body. The surface is slightly polished. The pot was recovered from the sacrifice place. Height – 17cm, shoulder height – 3.5cm, mouth diameter – 7cm, body diameter – 14cm, base diameter – 7.5cm.
20. Plain, wheel-thrown platter found in the sacrifice place. Height – 7cm, shoulder height – 4cm, mouth diameter – 27cm.

### ***Metal Objects***

21. Long bronze wire needle with a flat needle eye portion. The object is intact. Length – 12cm (Figure 29.8).
22. Two bronze wire earrings of a circular cross section. Both are identical in shape. Both ends are pointed and do not interlock. Diameter – 2.5-2.7cm (Figure 29.6-7).
23. Bronze jewellery item resembling a flat-shaped buckle. There are four flat-shaped slabs of bronze welded 4.5cm apart from each other onto the interior side of the item. Item diameter – 9.5cm.
24. Round disk-shaped bronze button with a sew through hole. The inside of the button is filled with hard clayey substance; the surface is decorated with two circular channel-like lines. Button diameter – 6cm (Figure 29.10).

### ***Beads***

25. Red barrel-shaped agate beads with thread holes on both ends. Five of these are large and dark red, six are medium-sized and light red, and three are small flat-shaped and red. Diameter: large beads – 1.7cm, medium-sized beads – 0.7cm, small beads – 0.5cm (Figure 31.5-10).

### Grave 77

Grave 77 covered with small river-washed stones was exposed at 85cm depth below the ground surface. This was an earth grave aligned west-east. It was 150cm long west-east by 105cm wide north-south. The burial chamber was 40cm deep and had a soft fill (Figure 13).

The burial chamber contained a poorly preserved human skeleton. Aligned west to east the skeleton was lying in a semi-flexed position with the face turned to the north-east. Unlike the skeleton, preservation of the pottery vessels in the grave was very good. These included two pairs of platter-type pots placed one atop the other on the south-west of the skull. The right ear side yielded a bronze earring; a bronze bracelet was found placed on the arm bones; agate and paste beads were recovered from the neck area of the skeleton.

Excavation revealed a sacrifice place 120cm west of the grave. Sacrifice place 77A was unearthed 30cm above the burial chamber at 75cm depth below the ground surface. It was 77 x 57cm in diameter and 25cm high. The feature produced five similarly shaped platters of a grey brown colour. All the pots were badly damaged and fragmentary.

A second sacrifice place (77B) was found 24cm above the burial chamber at 63cm depth, 84cm west of the burial chamber. It was covered with two small river-washed stones and measured 60 x 60cm in diameter. The feature produced three pottery vessels.

### Finds

#### *Pottery (Figure 42)*

1. Medium-sized brown jug with a biconical body, flat base and wide mouth. The surface is polished. The shoulder is girded with a channel-like groove. The pot has a perforated lug handle. Height – 21.5cm, mouth diameter – 12.5cm, body diameter – 24cm, base diameter – 11.5cm.
2. Black thick-walled kuza-type pot with a biconical body and narrow neck. The surface is polished. A circular handle is connected to the mouth and shoulder of the pot. Height – 16cm, mouth diameter – 6cm, body diameter – 17.5cm, base diameter – 8.5cm.
3. Poorly executed dopu with a narrow neck and outwardly bent rim. The body has lattice decoration applied by polishing. Height – 22cm, neck height – 5cm, mouth diameter – 8.5cm, body diameter – 14.5cm, base diameter – 9cm.
4. Brown platter-type pot with a lug handle on the shoulder. Height – 10cm, shoulder height – 3cm, mouth diameter – 27cm, base diameter – 10cm.
5. Plain, brown platter thrown on a potter's wheel. Height – 6cm, shoulder height – 4cm, mouth diameter – 25cm, base diameter – 7cm.
6. Plain, wheel thrown platter. Height – 9cm, shoulder height – 4cm, mouth diameter – 29cm, base diameter – 9.5cm.
7. Plain, brown platter with a lug handle. Mouth diameter – 27cm, base diameter – 9cm.
8. Plain, brown platter with a polished surface. Height – 7cm, shoulder height – 3cm, mouth diameter – 25cm, base diameter – 9cm.
9. Black polished platter with a handle-like protrusion. Height – 7.5cm, shoulder height – 3cm, mouth diameter – 28cm, base diameter – 9.5cm.
10. Well executed thick-walled dopu-type pot with a wide pear-shaped body, narrow neck and outwardly bent rim. The surface is poorly polished. The pot is wheel thrown. Height – 16.5cm, mouth diameter – 7.5cm, body diameter – 10cm, base diameter – 5.5cm.

11. Brown polished jug with a wide body and narrow neck. A handle having a circular cross section connects the rim and shoulder. The pot is thrown on a potter's wheel. Height – 4.8cm, mouth diameter – 7.3cm, body diameter – 12cm, base diameter – 5.5cm.
12. Grey platter with an outwardly extending flanged rim and handle-like protrusion. The pot did not yield measurements.
13. Brown platter with a shape similar to those described. Height – 9.5cm, shoulder height – 2.8cm, mouth diameter – 27cm, base diameter – 9cm.
14. Grey platter with a shape similar to those described. Height – 12cm, shoulder height – 3.5cm, mouth diameter – 35.5cm, base diameter – 10cm.
15. Well executed black platter with a shape similar to those described. Height – 8.5cm, mouth diameter – 32cm, base diameter – 10cm.
16. Black wheel-thrown platter with a shape similar to those described. Height – 7cm, shoulder height – 3.5cm, mouth diameter – 30cm, base diameter – 8cm.
17. Brown dopu with a pear-shaped body, narrow neck and rim bent outward. The shoulder is decorated with a single channel-like groove. Height – 11cm, mouth diameter – 7cm, body diameter – 14cm, base diameter – 6cm.
18. Five similarly shaped and sized poorly fired thick-walled platters recovered from Sacrifice Place 77A. Badly preserved, the pots did not yield measurements. The pots with the shoulder portions straight, have perforated lug handles. Height – 8-9cm, shoulder height – 3.5cm, mouth diameter – 28cm, base diameter – 7cm.

#### ***Metal Objects***

0. a bronze earring (Figure 32.4).  
 0.a bronze bracelet (Figure 32.6).

#### ***Beads***

19. Eight perforated light red barrel-shaped agate beads. Diameters – 0.7cm (Figure 22.28)
20. Thirty seven white and blue elongated paste beads with an incised line in the centre and thread holes on both ends. Twenty three of the beads are white; thirteen beads are blue. One blue bead has the shape of a barrel (Figure 31.23-27).

### **Grave 78**

Grave 78 uncovered at 120cm depth was oblong in shape and measured 206cm northwest-southeast by 115cm northeast-southwest. The burial chamber, 47cm deep, had a soft clay-rich fill with occasional pebbles and small river-washed stones (Figure 14).

A well preserved human skeleton was found in the grave. The body lay buried close to the south-east wall of the burial chamber with the head placed atop a platter-type pot and face turned to the south-west. The left leg of the skeleton was partially flexed and the right leg was more acutely flexed at the knee. The length of the flexed skeleton aligned northwest-southeast was 106cm. The pottery vessels in the burial chamber were found placed at the head end of the body close to the north-west wall of the burial chamber.

Analysis of the human remains showed that it was aged 45+ and was a male.

Another skeleton found in the grave was that of a dog. It lay behind the pelvic bones of the human skeleton against the north wall of the burial chamber. Some of the large bones of the dog were found inside the platter placed behind the scapular bones of the human skeleton. A large river-washed stone was recovered from one of the platters placed atop one another in the north-west facing section of the burial chamber. This river-washed stone had a trace of working on the surface.

Animal bone from the grave gave a radiocarbon date of Cal BC 1130 to 920 (Beta 232333).

## **Finds**

### *Pottery (Figure 45-46)*

1. Grey thick-walled jug with a narrow neck and rim bent outward. The shoulder and body portions of the pot have incised wave-shaped decoration. The surface is polished. Height – 38cm, mouth diameter – 16cm, body diameter – 29.5cm, base diameter – 13cm.
2. Black jug-type pot with a globular body, narrow neck and outwardly bent rim. The shoulder and body are banded with two channel-like grooves. The lower portion of the neck has linear incisions. The pot has a circular lug handle, now broken. Height – 8cm, mouth diameter – 27cm, base diameter – 10cm.
3. Plain, well executed grey thick-walled platter. Height – 6.5cm, shoulder height – 2.5cm, mouth diameter – 26cm, base diameter – 7cm.
4. Brown platter-type pot with polished linear decoration on the surface. Height – 9cm, mouth diameter – 27cm, base diameter – 10cm.
5. Well fired grey-brown platter tempered with fine sand and grit and moulded on a potter's wheel. Height – 8.5cm, shoulder height – 12.5cm, mouth diameter – 24cm, base diameter – 7cm.
6. Plain, brown platter. Height – 8cm, shoulder height – 3cm, mouth diameter – 30cm, base diameter – 9cm.
7. Plain, brown platter. Mouth diameter – 28cm, base diameter – 8cm.
8. Plain, wheel-thrown brown platter. Height – 8cm, shoulder height – 3cm, mouth diameter – 32cm, base diameter – 8cm.
9. Grey churn-type pot with a wide body, narrow neck and flanged rim. The shoulder decorated with a single channel-like groove has two opposing ribbon-shaped handles. Height – 47cm, neck height – 5.7cm, mouth diameter – 12.7cm, body diameter – 37.5cm, base diameter – 13.5cm.

## **Grave 79**

Upon consent of the BTC representatives Grave 79 was excavated 100m south of the BTC and SCP construction corridor. This stone-covered burial was located at the foot of a small hillock.

There was a clearly visible extensive spread of stones over the grave. It was 350cm wide north-south by 680cm long east-west and consisted of relatively large closely spaced river-washed stones. The uppermost stone setting had the shape of a crescent with occasional large stones in the centre. The first stone layer was 50cm high and covered an area 360cm wide north-south and 620cm long east-west. The grave fill within this stone layer consisted of fertile gravel-rich grey soil material. The crescent-shaped set of stones was retained. A second layer of stones was exposed after excavation of its central and mouth parts. It should be noted that the crescent mouth was directed to the south-east. The second stone layer was 70cm high and 120 x 150cm in size. The stones in this layer were slightly smaller. The second layer of stones was removed and a layer of fertile yellow soil was revealed beneath. This soil layer was underlain by a third layer of stones. The stones in this layer piled in a heap had a somewhat dense arrangement. The third layer of stones covered an area of 140cm by 170cm and was 60cm high.

The burial chamber was exposed under the third layer of stones, 180cm below the ground surface. The grave pit had a loose, soft, clay-rich yellow fill that enabled the exact boundaries of the burial chamber to be defined. The burial chamber measured 2.25m in length east-west and 1.4m in width north-south and was 30cm deep. The distance between the grave floor and the ground surface was 2.1m.

The burial chamber contained the skeleton of a man of large size and stature. The overall length of this skeleton was 210cm. It had a west-east alignment with the head towards the west and legs towards the east. The face was tilted to the south-west. Its left leg was semi-splayed, while the right leg was semi-flexed, as if the individual was buried in a running posture. The skeleton's leg bones extended towards the east end of the burial chamber. The skeleton lay upon the pottery vessels in the grave. Sheep bones, including a skull with survived teeth were found near the west wall of the burial chamber against the knee bones of the human skeleton.

A pottery piece and fragments of a disk-shaped dress jewellery item was recovered from under the skull. The central part of this bronze piece of jewellery was bulgy and perforated. In addition, the skull area produced a dagger having a lattice-shaped socketed tang with a wood remnant within. Four arrowheads with sagging wings were found under the pelvis near the north wall.

The area between and around the legs of the skeleton yielded platter-type pots. A large jar was cleared out by the north-west wall and another jar by the south-west wall. Excavation revealed a sacrifice place located 40cm below the surface at the west end of the burial chamber. It was 55cm high, 160cm long north-south and 150cm wide east-west. The sacrifice place yielded a jar and two platter-type pots.

## **Finds**

### ***Pottery***

1. Black platter-type pot. The pot has a straight shoulder and rim bent outward. The body tapers down to the base. The surface is polished. Height – 9cm, shoulder height – 2.5cm, mouth diameter – 25cm, base diameter – 7.5cm.
2. Plain, brown platter-type pot. The inner surface has traces of polishing. Height – 11cm, shoulder height – 3cm, mouth diameter – 28.5cm, base diameter – 9cm.
3. Brown platter-type pot with a straight shoulder and outwardly bent rim. Height – 6cm, shoulder height – 3cm.
4. Brown platter-type pot with an inwardly inclined shoulder. The outer surface is polished. Height – 9cm, shoulder height – 3.5cm, base diameter – 10cm.
5. Black thick-walled platter with a straight shoulder. The pot did not yield measurements.
6. Brown platter with a shape similar to those described. Height – 10cm, shoulder height – 3cm, base diameter – 9.5cm.
7. Plain, brown lug-handled platter with a straight shoulder and flanged rim. Height – 9cm, shoulder height – 2.5cm, base diameter – 8.5cm.
8. Well executed brown platter-type pot. Shoulder height – 2.8cm, base diameter – 7cm.
9. Brown platter with a shape similar to those described. Shoulder height – 3cm, base diameter – 8cm.
10. Plain, brown platter with a straight shoulder. Shoulder height – 3cm, mouth diameter – 31cm.
11. Brown fine sand-tempered platter with a polished surface. Height – 9.5cm, shoulder height – 2.7cm, mouth diameter – 28cm, base diameter – 9cm.
12. Brown wheel-thrown platter with a lug handle on the shoulder. Height – 9cm, shoulder height – 2.5cm, mouth diameter – 28cm, base diameter – 9.5cm.
13. Black wheel-thrown with an inwardly inclined shoulder and rim bent outward. Height – 8cm, shoulder height – 3.5cm.
14. Well executed, wheel-thrown black platter-type pot with a body tapering steeply down towards the base. The internal surface has polished decoration. Height – 10.5cm, shoulder height – 2.5cm, mouth diameter – 27cm, base diameter – 9cm.
15. Wheel-thrown black sand-tempered platter-type pot with a straight shoulder and flanged rim. Height – 10.5cm, shoulder height – 2.5cm, mouth diameter – 26.5cm, base diameter – 8cm.
16. Black platter-type pot with a perforated lug handle on the shoulder.

17. Black platter-type pot with a flat footed base. The pot with a polished surface was made on a potter's wheel. Height – 10cm, shoulder height – 3cm, mouth diameter – 28cm, base diameter – 10cm.
18. Brown platter-type pot with a wide body tapering steeply down towards the base. The rim is flanged and bent outward. There are polished patterns on the interior surface. Height – 9cm, shoulder height – 2.5cm, mouth diameter – 27cm, base diameter – 8.5cm.
19. Plain platter with a shape similar to those described. The pot did not yield measurements.
20. Plain, undecorated platter. Highly fragmentary, the pot did not yield measurements.
21. Plain, black platter. The pot did not yield measurements.
22. Brown wide-bodied churn with a long narrow neck and outwardly bent flanged rim. The pot has horizontal decoration in high relief on the shoulder and downward polished strips below. The pot was moulded on a potter's wheel. The pot did not yield measurements.
23. Brown churn-type pot with a wide body tapering down towards the base. The neck is short; the rim is bent outward. The base shows marks of fire. Height – 55cm, shoulder height – 4.5cm, mouth diameter – 15cm, body diameter – 38cm, base diameter – 14cm.
24. Plain, undecorated highly fragmentary black platter.

### ***Metal Objects***

25. Bronze dagger with a flat-shaped blade getting narrower to the tip. Both sides of the blade are acute. The dagger has a tang at the rear end for securing to a wooden handle. Wood remnants and a handle fixing bronze nail can still be seen on the dagger tang. The dagger tang is lattice-shaped and rhomboidal. Length – 25cm, maximum width – 4cm, tang diameter – 3.5cm.
26. Four bronze arrowheads with a central bulgy portion and sagging-winged tip. The tang for fastening to a wooden shaft has a square cross section. Length varies between 7cm and 7.5cm (Figure 32.2, 9-10).
27. Bronze needle of a circular cross section with a thread hole on the flat end. Length – 7.2cm.
28. Bronze bracelet made of a segment of bronze wire having a ribbon-shaped cross section. The bracelet has flat-shaped terminals and is plain in style. Heavily corroded. Diameter – 7.5cm (Figure 29.2).
29. Small diameter open-ended bronze bracelet having a circular cross section. The gap between the terminal ends is 0.3cm. Diameter – 4.5cm (Figure 26.3).
30. Plain bronze earring with a circular cross section. The ends meet but do not overlap. Diameter – 3.1cm.
31. Four bronze wire earrings having a circular cross section. The sharpened ends meet but do not overlap. Diameter – 2.5cm.

### ***Beads***

32. Five perforated light red disk-shaped agate beads having circular cross sections. Diameter – 0.3cm (Figure 31.28).
33. Two perforated light red elongated barrel-shaped agate beads. Length – 1.5cm.
34. Sixty white perforated oblong-shaped paste beads having circular cross sections. Diameter – 0.3cm.

## **Grave 80**

Stone-covered Grave 80 was located 10m 90cm south of the BTC and SCP pipelines construction corridor. It was excavated upon consent of the BTC representatives. There was an easily visible spread of stones over the grave. This set of stones was 6.2m long east-west by 3.2m wide north-south. This first stone layer largely consisting of large river-washed stones had a height of 25cm. These stone were sparse and randomly spaced with a denser concentration in the west corner. The first stone layer had a crescent shape with the crescent mouth directed towards the east.

A second stone layer was 260 x 240cm in size. The stones were also large and randomly spaced. The crescent shape was no longer clearly identified in this layer. The second layer of stones has a height of 45cm (Figure 15).

The burial chamber was exposed after removing this second stone setting. The loose soft fill of the burial chamber made it easy to establish its exact boundaries. The burial chamber located 75cm below the ground surface measured 170cm east-west and 120cm north-south. The burial chamber was 55cm deep.

Two human skeletons were discovered in the burial chamber. Both were badly preserved and represented by individual detached bones. The remains of the first skeleton were found in a highly disordered and jumbled state in the south-east corner of the burial chamber. The second skeleton detected in the north-east corner of the burial chamber was in the same state of preservation. Only hip and tibial bones of the second skeleton were well preserved. The burial chamber yielded the remains of eight pottery vessels. Some of these were extremely fragmentary. The pottery sherds came from six platter-type pots and two jug-type pots. One of the platters was found placed in the centre of the burial chamber and contained animal bone fragments. The skeleton and pots in the burial chamber were covered with large heavy river-washed stones. Large bovid teeth were recovered from under one of the platters lined up against the west wall of the burial chamber.

The sacrifice place of this grave was revealed 150cm west of it. The feature exposed 35cm below the ground surface had a height of 75cm and was 180 x 130cm in size. The sacrifice place was covered with medium-sized river-washed stones underlain with soft fertile soil. The sacrifice place produced fragments of several platter-type pots.

## **Finds**

### *Pottery (Figure 47)*

1. Grey jug-type pot. The shoulder has a protuberance and adjacent ribbon-shaped handle and a moulded snake's head decoration applied to its opposing side. The body is banded with a channel-like groove. The surface is polished. The pot did not yield measurements.
2. Fragments of a large grey jug with a flanged rim. The shoulder bears diamond-shaped notched and incised decorations. The pot tempered with sand was well fired. The pot did not yield measurements.
3. Wheel-thrown grey platter-type pot with an outwardly bent rim and lug handle on the straight shoulder. The pot did not yield measurements.
4. Grey platter-type pot with an outwardly flanged rim and body tapering steeply down towards the base. Height – 6cm, mouth diameter – 26cm.
5. Grey flat, shallow-walled, straight-shouldered platter thrown on a potter's wheel. Height – 10cm, shoulder height – 4cm, mouth diameter – 31cm, base diameter – 9cm.
6. Plain, grey platter with a shape similar to those described. Height – 6.5cm, shoulder height – 3cm, mouth diameter – 16cm, base diameter – 10cm.
7. Poorly executed grey narrow-necked jug. A handle having a circular cross section connects the rim and shoulder of the pot. The pot did not yield measurements.
8. Grey deep-sided platter. The pot, poorly executed, is highly fragmentary and did not yield measurements.
9. Medium-sized grey bowl with an inwardly inclined shoulder and outwardly bent flanged rim. This sand-tempered pot was poorly fired. The pot is badly preserved and fragmentary.

## **Grave 81**

This was an earth grave uncovered 85cm below the ground surface. Like other graves in the Tovuzchai Necropolis Grave 81 had a west-east alignment. It was 167cm long west-east by

130cm wide north-south and 45cm deep. The soft gravel-rich yellow fill of the burial chamber was clearly distinguishable from the surrounding soil material (Figure 16).

The burial chamber contained a human skeleton. The skeleton buried in a semi-flexed position was 1m long. The skeleton layout implied that the body of the deceased was buried aligned west-east with the face tilted to the south. The knees of the skeleton lay close to the flexed elbow. This elbow area yielded a bronze knife and needle. A jug and dopu were found by the leg bones of the skeleton. The skull of the skeleton was found placed in a platter.

The sacrifice place of the grave was excavated 40cm west of it. It had a height of 20cm and was 40 x 40cm in size. The sacrifice place having stony and gravel-rich soil yielded fragments of three pottery vessels.

## **Finds**

### ***Pottery***

1. Wheel-thrown brown platter with a straight shoulder and flanged rim. Height – 9.5cm, shoulder height – 2.5cm, mouth diameter – 23cm, base diameter – 10cm.
2. Brown platter with a shape similar to those described. Height – 9cm, shoulder height – 3cm, mouth diameter – 28cm, base diameter – 10cm.
3. Brown bardag-type pot with a narrow-neck and rim bent outward. The shoulder and rim are connected with a circular-shaped handle. The shoulder portion is banded with five successive channel-like lines in high relief. The pot was moulded on a potter's wheel. The pot together with the previous two was recovered from the sacrifice place. Height – 26cm, neck height – 5cm, body diameter – 26cm, mouth diameter – 10cm, base diameter – 8cm.
4. Black jug with a biconical body and incurving rim. The surface is polished. There is an applied moulded downwardly curved handle on the shoulder. The shoulder surface is decorated with incised lines. The pot was made on a potter's wheel. The pot did not yield measurements.
5. Grey thick-walled highly fragmentary dopu with a pear-shaped body and wide mouth. The pot surface has vertical linear decoration applied by polishing.
6. Medium-sized black jug with an outwardly bent flanged rim. The neck and shoulder portions are girded with four or five channel-like lines. A handle having a circular cross section connects the rim and shoulder of the pot. At the point of the upper handle attachment the pot is decorated with notched patterns. The pot made on a potter's wheel is broken and fragmentary.
7. Black jug with a handle having a circular cross section. Around the shoulder are five channel-like lines. Highly fragmentary, the pot did not yield measurements.
8. Black straight-shouldered, lug-handled platter with an outcurving rim. The surface is poorly polished. Height – 7.5cm, shoulder height – 3.5cm, mouth diameter – 23.5cm, base diameter – 9.5cm.
9. Brown straight-shouldered, lug-handled jug with an outcurving rim. The surface is poorly polished. The pot did not yield measurements.
10. Brown platter with a shape similar to those described.
11. Broken brown platter with a shape similar to those described.
12. Grey platter with a shape similar to those described.

### ***Metal Objects***

13. Thin bronze wire needle with a flat threading eye portion. The tip end is thin. Length – 13cm.
14. Bronze flat-shaped knife. The blade with both cutting edges acute gets narrower towards the tip. The tang is flat and has a nail hole in the centre for securing to a wooden handle. The nail is still in the hole. Length – 14cm, width – 2.5cm (Figure 28.1).

Grave 82 was located 170cm north of Grave 77. The grave had a west-east alignment and measured 170cm in length by 120cm in width. The grave was uncovered at a depth of 55cm below the ground surface and was 40cm deep. The grave edges could easily be distinguished as the grave fill consisted of soft, yellowish clayey soil (Figure 17).

The burial chamber yielded sixteen pottery vessels, all disposed in its central part. One of these was a rhyton-type pot resembling bull's horns with two applied moulded ceramic eyes. The grave also produced a diadem and bracelet. No human or animal bones were contained in the grave.

Excavation revealed the sacrifice place of this grave. It was exposed at 14cm depth 90cm north-west of the burial chamber. The sacrifice place was 60 x 60cm in diameter and had a height of 25cm. The feature was covered with small river-washed stones. Fragments of a medium-sized jug were collected from under this stone spread.

## **Finds**

### ***Pottery (Figure 43, 48)***

1. Brown platter-type pot with a flanged rim bent outward and perforated handle-like protrusion extending from the straight shoulder. The surface is decorated with vertical lines applied by polishing. The platter was moulded on a potter's wheel. The pot did not yield measurements.
2. Grey coloured platter with a shape similar to those described. Disintegrated.
3. Black coloured platter with a shape similar to those described. Disintegrated.
4. Brown coloured platter. The pot has a straight shoulder and flanged rim similar to those described. Disintegrated.
5. Black coloured platter with a shape similar to those described. Disintegrated.
6. Plain, black coloured platter-type pot with a shape similar to those described. The surface is faintly polished. Disintegrated.
7. Black coloured platter with a shape similar to those described. Disintegrated, the pot could not be measured.
8. Plain, brown coloured platter with a shape similar to those described. Disintegrated.
9. Plain, brown coloured platter with a shape similar to those described. Disintegrated.
10. Grey coloured dopu-type pot with a narrow neck, pear-shaped body and flat base. The surface is decorated with vertical polished lines. The pot was made on a potter's wheel. The pot did not yield measurements.
12. Well executed red thin-walled rhyton-type pot well fired at a stable temperature. The pot is small and resembles a bull's head in shape. The surface painted red and overcoated with angobe is well polished. The pot has an applied moulded eye-shaped decoration on the surface. The handle resembles bull's horns. The mouth is slanting and has fire marks on the surface. The base is footed. Height – mouth diameter – 7.9cm, base diameter – 5.7cm, height – 8.5cm.

### ***Metal Objects***

12. Plain bracelet made of a piece of bronze wire having a circular cross section. The central thick portion gets thinner towards the ends. The ends meet but not overlap. Cross section diameter – 1cm, bracelet diameter – 5.7cm (Figure 30..)
13. Flat, square-shaped and circular diadem decorated with patterns formed by four to seven notches. The ends get sharper and each is bent inward into a thread hook. The object is fully intact. Diameter – 15cm.

## **Grave 83**

Grave 83 was excavated on top of a hillock 8m 30cm south of the BTC and SCP pipelines construction corridor. The excavation of the burial was carried out upon consent of the BTC

representatives. The grave was exposed at a depth 57cm below the ground surface. Sparse individual stones were visible on the grave aligned north to south. This stone cover over the grave was 245cm long by 140cm wide and had a height of 40cm (Figure 18).

The stones were removed and the exact edges of the burial chamber were defined. The burial chamber dug at 1m depth below the surface had a fill consisting of soft black soil flecked with white clay. The burial chamber measured 220cm in length east-west by 160cm in width north-south and was 35cm deep.

The burial chamber contained a human skeleton aligned west to east. The body was buried in a semi flexed position on its right shoulder with the head placed inside a platter and the face turned to the south. Preservation of bones was good. Rib and chest bones were also found placed inside platters. A small river-washed stone was seen placed atop the skull and four pottery vessels were disposed on a slightly raised platform in front of the skeleton. A total of ten ceramic vessels were recovered from the grave. The area around the arms yielded a thin bronze bracelet and agate bead.

The sacrifice place of the grave was uncovered at 47cm depth 52cm east of the burial chamber. The feature was 60 x 40cm in size and had a height of 40cm. It was covered with small river-washed stones among which a quern fragment was found. The sacrifice place produced also two cooking-type pottery vessels which being highly disintegrated could not be retained.

## **Finds**

### ***Pottery (Figure 49)***

1. Broken black pot. The pot did not yield measurements.
2. Plain, black platter. Height – 8.6cm, shoulder height – 3.7cm, mouth diameter – 29cm, base diameter – 7cm.
3. Plain, black thick-walled platter with a lug handle. The pot did not yield measurements.
4. Brown coloured cooking-pot with a flat body and wide mouth. Two groove-like lines run along the exterior circumference of the rim. The pot was moulded on a potter's wheel. Body diameter – 20.5cm, mouth diameter – 18.5cm, base diameter – 9.5cm.
5. Plain, black coloured platter with a shape similar to those described above. Disintegrated.
6. Poorly executed grey coloured jug. Completely disintegrated.
7. Poorly executed black coloured jug with a flanged rim bent outward. The pot is decorated with a single channel-like line encircling the shoulder. The body tapers steeply downwards towards the base. Height – 24cm, mouth diameter – 14.5cm, body diameter – 26cm, base diameter – 11.5cm.
8. Wide-bodied, narrow-necked jug. Completely disintegrated.
9. Wide-bodied, narrow-necked jug. Completely disintegrated.
10. Grey coloured globular-bodied jug with a narrow neck and flanged rim. Completely disintegrated.
11. Grey coloured globular-bodied jug with a narrow neck and flanged rim. Completely disintegrated.

### ***Metal Objects***

12. Broken bronze bracelet made of a segment of thin wire. There are chips and cracks on the surface. Diameter – 7cm.

### ***Other Finds***

14. Broken fragment of a quern made of hard stone. One side of the stone shows marks of heavy wear. The tool is thought to have become unfit for use and therefore was used as a grave covering stone. Length of the fragment – 14cm.

## Grave 84

Grave 84 was a plain-structured earth burial covered with small individual river-washed stones. It was aligned southwest to north-east and had a square-shaped burial chamber exposed 1m below the ground surface. The burial chamber measured 207cm in length southwest-northeast and 115cm in width northwest-southeast and was 70cm deep. The distance between the south-west wall of Grave 84 and the north wall of Grave 77 was 225cm; that between the south-east wall of Grave 84 and the north-west wall of Grave 85 was 217cm (Figure 19).

The flexed human skeleton found in the burial chamber was 1m long. The hip bone was 41cm long, the tibia was 40cm long; the distance from the skull to the pelvis was 85cm. The skeleton aligned southwest to northeast and with the skull facing the north was very well preserved. The body was buried on its left shoulder with the right flexed arm stretched towards the face. There was a bronze bracelet on the right wrist. The left arm was flexed at the elbow (in triangular form) and bent towards the belly. The left hand rested on the belly. In general, the arms were flexed counter to each other. The skeleton's legs were tightly flexed at the knees. The body was found buried atop pottery vessels (mainly platter-type pots).

A large bronze bracelet was found placed on the right arm of the skeleton; the neck area produced two chain-like pendants, each decorated with a bell-shaped ornament. In addition this area yielded high numbers of large and small paste and agate beads. Large quantities of differently shaped and sized paste and agate beads were also recovered from the platter placed near the skull of the skeleton.

### Finds

#### *Pottery (Figure 50)*

1. Black, polished jug with a flanged rim bent outward. There are polished vertical straight lines on the shoulder portion. The shoulder has a flat-shaped handle-like protuberance with notched decoration on the surface. The pot was moulded on a potter's wheel. Disintegrated.
2. Black thick-walled jug with a wide body, narrow neck and flanged rim. The pot has four applied moulded button-shaped decorations. Mouth diameter – 15cm, body diameter – 33cm.
3. Plain, black sand-tempered thick-walled platter with a shape similar to those described. Height – 10.6cm, shoulder height – 3.3cm, mouth diameter – 25cm, base diameter – 6.4cm.
4. Brown thick-walled platter with a lug handle. The shoulder is straight; the rim is flanged. Height – 9cm, shoulder height – 3.2cm, mouth diameter – 27cm, base diameter – 10cm.
5. Plain, brown coloured polished jug tempered with sand. Height – 9cm, shoulder height – 3.3cm, mouth diameter – 28cm, base diameter – 10cm.

#### *Metal Objects*

6. Plain bracelet made of a segment of bronze wire with a circular cross section. The terminal ends are close to each other. Diameter – 8cm (Figure 29.1).
7. Bronze pendant bell. The item has a circular shape narrowing from top to bottom. The top end is flat and has a hole in the centre threaded with chain-like loops. Two pendant bells were found. Both are intact and have the same shape. Length – 4.5cm and 3.5cm.

#### *Beads*

8. Perforated beads chipped out of light red agate. Ten such beads were found. All are barrel-shaped. Length – 1.5-2cm (Figure 22.30).
9. Agate chip beads with a colour range from light red to red and dark red. Some are oblong-shaped, some are biconical. Thirty of the beads are large; two hundred and seventy four beads are small.

10. Perforated white paste beads chipped into an oblong, tubular shape. Sixteen such beads were found. Length – 1.7-2cm.
11. Black barrel-shaped paste bead. Length – 1cm.
12. Blue disk-shaped, biconical paste beads with a thread hole in the centre. The beads are banded with incised lines. Three such beads were found. Diameter – 1.2cm (Figure 31.1-4).
13. Two tubular-shaped bone beads with lattice decoration. Length – 2.2cm, diameter – 1cm.
14. Flat perforated bone bead. Length – 2.3cm, width – 1.7cm (Figure 31.29).

### **Grave 85**

This was a common earth grave covered with a gravel-rich layer. The grave fill was distinguished from the surrounding soil material by its yellow colour and relative hardness. The distance between the north-west wall of Grave 85 and the south-east wall of Grave 84 was 215cm; that between the north wall of Grave 85 and the south wall of Grave 81 was 285cm; and the distance between the south-west wall of Grave 85 and the north-east wall of Grave 77 was 310cm (Figure 20).

Grave 85 had a square-shaped burial chamber aligned northwest to southeast. The burial chamber was 160cm long northwest-southeast by 115cm wide northeast-southwest. The burial chamber was discovered 100cm below the ground surface and had a depth of 55cm.

The burial chamber contained a human skeleton in a very bad state of preservation. The body aligned north to south was buried in a partially flexed position with the head placed inside a small platter-type pot and the face tilted to the south-west. The pot with the skull was located in the centre of the burial chamber. The leg bones were unearthed in the south corner of the grave. There were jugs disposed both on the right and left side of the skeleton. The grave did not yield metalware or beads. This was the last burial excavated at the Tovuzchai Necropolis.

### **Finds**

#### *Pottery (Figure 51)*

1. Black jug-type pot with a handle of a circular cross section. The shoulder is decorated with an encircling channel-like groove. Fully disintegrated.
2. Brown thick-walled jug tempered with sand. The pot has a pear-shaped body and narrow neck. A circular handle connects the rim and shoulder of the pot. Disintegrated.
3. Grey, wheel-thrown jug with an outwardly inclined rim. The shoulder bears channel-like grooves. Disintegrated.
4. Black jug-type pot with a flanged rim bent outward. The rim, shoulder and upper body have encircling channel-like lines with incised wave-like decorations in between. Disintegrated.
5. Plain, grey coloured thick-walled dopu with an outwardly inclined rim. The body gently widens from the shoulder down to the flat base. The surface is faintly polished. Disintegrated.
6. Black platter-type pot with a straight shoulder and outwardly bent flanged rim. There is a lug handle on the shoulder. Disintegrated.
7. Black platter-type pot made in a plain style. The pot did not yield measurements.
8. Grey platter-type pot with a straight shoulder and outwardly bent flanged rim. Disintegrated.
9. Black platter-type pot. The shoulder portion is straight; the rim is flanged and bent outwards. The shoulder bears a single perforated lug handle. Disintegrated.
10. Plain, small dopu of a dark grey colour. The pot has no decoration. Height – 13.7cm, mouth diameter – 7.5cm, body diameter – 7.6cm, base diameter – 10.5cm.

## V. Analytical Results

### • *Interpretation of Excavation Results*

This Report, providing a comprehensive research analysis of the Tovuzchai Necropolis, identifies grave types in the area, including the Tovuzchai Necropolis, establishes the date and chronological range of the burials, contains comments regarding diversity of mortuary practices and gives classification of the cultural material. The degree of ranking of the Tovuzchai Necropolis among the late Bronze Age to early Iron Age necropolises of the western portion of Azerbaijan is defined on the artefactual material retrieved from the site. The Tovuzchai Necropolis is distinguished from other burial sites of the Tovuzchai River Basin and entire region by its size, mortuary practices and finds assemblage.

The Tovuzchai Necropolis may possibly have belonged to the inhabitants of a settlement located in the nearby area. Although the associated settlement site was not discovered during research on the burial site, it could tentatively be presumed that the settlement site of this fairly sizable necropolis was situated in the neighbouring vicinity and the lifespan of the settlement was relatively long, perhaps 6 or 7 centuries. The archaeological material recovered from the necropolis indicate that the site was used for 6-7 centuries.

Although the Tovuzchai Necropolis, characterized by a number of locally peculiar mortuary practices, differs from other coeval burial sites of Azerbaijan, it manifests complete identity of its cultural material with that recovered from other sites.

The Tovuzchai Necropolis is not multi-layered. Not a single case of placing a later burial atop the earlier one was recorded at the site. For comparison – the Zayamchai Necropolis had one such burial.

The graves at the Tovuzchai Necropolis were very densely spaced and each had an individual burial chamber. The difficulty in identifying the edges of burial chambers was related to a single factor – soil characteristics of the necropolis. The burial chamber dug in the natural gravel layer was backfilled with brought-in yellow, clayey soil. Sometimes it was difficult to define the exact edges of the burial chambers backfilled with the same gravelly soil material. The graves at the necropolis were constructed on the same principle and covered, depending on the size of the burial, with river-washed stones, gravel-rich and sandy soil layer.

No regularity was observed with respect to the grave depth at the Tovuzchai Necropolis. The graves were unearthed at different depths. In some cases the difference in depths may have been conditioned by soil properties and difficulty in digging. The majority of graves at the necropolis were exposed at depths between 50cm and 120cm.

Some burial chambers at the Tovuzchai Necropolis were large but more modestly furnished; others were small but richly furnished with grave goods. The presence of graves with abundance or sparsity of grave goods is taken to indicate the emergence of social organization and social stratification during that period. The beginning of division of society into classes in Azerbaijan in the late 2<sup>nd</sup> millennium – early 1<sup>st</sup> millennium, B.C. was manifesting itself in the mode of life of early inhabitants of the Tovuzchai River Basin.

Two burial types have been recorded at the Tovuzchai Necropolis – stone covered graves and earth graves. It is possible to distinguish between these two types of burials based only on the nature of the burial covering material. The covering of stone-covered graves is not a simple set of stones but represents a kind of structure. Covering a grave dug in the soil layer or sand layer or gravel-rich layer with river-washed stones should be understood as an important aspect of the mortuary practices employed.

Evidence of different burial practices were encountered at the Tovuzchai Necropolis. The bodies were buried in graves in a flexed or semi-flexed position on their right or left shoulders or face down. In the majority of graves the skeletons had a northwest-southeast alignment. Human skeletons were contained in most of the burials. Some graves had their sacrifice places. It was possible to determine the alignment, burial posture and sex (though tentatively) of all the skeletons discovered at the burial site. Some of the burials contained disarticulated skeletal remains. Some graves represented the practice of burying people with animals. Burial customs related to astral beliefs were manifested through the crescent-shaped stone covers of some of the graves.

The archaeological material recovered from the Tovuzchai Necropolis can be divided into three groups according to their function and work principle: domestic items, weaponry and jewellery. Domestic items are represented by pottery ware that includes differently shaped and sized platters, cooking-pots, jugs, bardags, kuzas, and dopus. Weapons are indicated by spearheads and arrowheads. Jewellery items are also numerous and varied. All these materials attest to a certain degree of development of arts and crafts, including pottery making, metal-working and jewellery making in the life of early communities inhabiting the Tovuzchai River Basin. Pottery, weaponry and jewellery revealed by the excavations show mutual development of these crafts and serve as a source in dealing with economic research issues.

In addition to comprehensive knowledge related to social organization, the mortuary practices provide valuable information about the religious beliefs of early communities residing within the Tovuzchai River Basin and deserve further research in the future.

From the archaeological evidence gathered, it could be concluded that this necropolis, rich in various types of burial monuments, exhibits some distinctive features in terms of the cultural material recovered and burial practices employed. However, despite the structural originality of the majority of graves and grave goods, the Tovuzchai burials have direct analogues with the Khojali-Gedabey culture archaeological sites and are part of this culture.

- *Dating*

The Khojali-Gedabey culture was the most widespread culture in the west of Azerbaijan during the late 2<sup>nd</sup> millennium to early 1<sup>st</sup> millennium, B.C. This culture is differently termed in scientific literature. At the end of the Bronze Age and the beginning of the Iron Age the Khojali-Gedabey archaeological culture existed with geographic variations in the west of Azerbaijan, the north of the present Armenia (Yerevan and Dilijan Districts) and the south of Georgia. The Khojali-Gedabey Culture covers a large historical expanse ranging from the 14<sup>th</sup> century, B.C. to the 8<sup>th</sup> century, B.C.

Like other archaeological sites located in the west regions of Azerbaijan, the Tovuzchai burials produced grave goods typical of the Khojali-Gedabey Culture. This typicality is clearly discernible on domestic utensils, weapons and items of jewellery. The data gained through scientific analysis of artefacts, along with studies of mortuary practices supply good evidence for the presence of a genetic-chronological connection between various stages of the late Bronze Age to early Iron Age historical period.

To reiterate, the burials at the Tovuzchai Necropolis belong to the Khojali-Gedabey archaeological culture and are characteristic of the late 2<sup>nd</sup> millennium-early 1<sup>st</sup> millennium, B.C. However, unlike the burials at the Zayamchai Necropolis, the burials at the Tovuzchai Necropolis are of a slightly later date, possibly covering the 13<sup>th</sup>-9<sup>th</sup> centuries, B.C. The arguments concerning the chronological range of the Tovuzchai burial site is further supported by the results of radiocarbon dating of human and animal bones from various graves.

Table 1 Radiocarbon Determinations

Grave	Laboratory No	Measured Radiocarbon Age	<sup>13</sup> C/ <sup>12</sup> C Ratio	Conventional Radiocarbon Age	2 sigma 95% probability	1 sigma 68% probability
Q42 Bone	Beta 218210	3030 +/- 40 BP	-18.5 o/oo	3140 +/- 40 BP	Cal BC 1500 to 1360 AND Cal BC 1360 to 1320	Cal BC 1440 to 1390
Q45 Bone	Beta 200401	2580 +/- 40 BP	-18.3 o/oo	2690 +/- 40 BP	Cal BC 910 to 800	Cal BC 850-810
Q53 Bone	Beta 218211	2820 +/- 40 BP	-16.7 o/oo	2960 +/- 40 BP	Cal BC 1300 to 1030	Cal BC 1260 to 1110
Q56 Bone	Beta 232332	2970 +/- 40 BP	-18.3 o/oo	3080 +/- 40 BP	Cal BC 1430 to 1260	Cal BC 1410 to 1310
Q78 Animal bone	Beta 232333	2750 +/- 40 BP	-18.0 o/oo	2860 +/- 40 BP	Cal BC 1130 to 920	Cal BC 1080 to 980

- ***Discussion and Analysis of the Results of the Work Compared with Other Sites of a Similar Nature on the Pipeline Route***

A significant number of burial sites dating to the late Bronze Age to early Iron Age have been discovered and explored on the BTC and SCP pipelines route. These were individual burials or large burial sites such as Hasansu and Zayamchai Necropolises. Dozens of late Bronze Age to early Iron Age burials were investigated during excavations at these sites. These graves share similarities with those at the Tovuzchai burial site in terms of grave types, burial customs and grave goods placed in the grave. A similar monument is the Hajialili Necropolis on the south shore of the Shamkir reservoir. Based on the information provided by local community members, the Hajialili Necropolis was first reported in 2003 by the BTC archaeological expedition carrying out excavations at the Zayamchai Necropolis. The finds from this site are also of the same date and identical to the finds recovered from the geographically close Zayamchai and Tovuzchai Necropolises.

Among the mentioned sites, the burials most similar to the burials at the Tovuzchai Necropolis are those excavated at the Zayamchai Necropolis. Although in strict chronological terms the Zayamchai burials are 1-2 centuries earlier, there were no differences observed between these two either in terms of burial practices or grave goods. The burials at both Tovuzchai and Zayamchai Necropolises had the same construction styles. Like the Zayamchai Necropolis, the Tovuzchai Necropolis had both richly and poorly furnished common earth or stone-covered graves. No discernable variation in the depth and size of graves was recorded either.

All this suggests that the individuals buried at these necropolises were the carriers of the same culture and shared the same worldview. Mutual relationships and cultural identity of various kins and tribes that took up a permanent abode and lived on this land for millennia were the basis upon which the new Khojali-Gedabey Culture was built.

- ***Discussion of the Site within a Regional and National Context***

Large-scale excavations had been carried out at a number of late Bronze Age to early Iron Age burial sites in various regions of Azerbaijan prior to archaeological excavations on the BTC project. Thousands of burial monuments – stone coffin graves, earth graves, kurgans and cromlechs of this date had been investigated in the Ganja-Gazakh, Agdam-Fuzuli, Guba-Gusar, Sheki-Zakatala, Garabag, Mil, Mugan, Talish and Shirvan zones of the country and on the Absheron Peninsula. It should be noted that late Bronze Age to early Iron Age burial sites have been studied to a greater degree than settlement sites. Therefore, the majority of information on the economic and domestic life and social organization of Azerbaijan during the late Bronze Age to early Iron Age was gained from the material recovered from these burials.

The area's burial monuments of this date vary in type, mostly conditioned by natural and geographic factors. The Tovuzchai River Basin has fewer kurgans as compared to the Shamkirchai and Ganja chai River Basins. Stone coffin graves are more typical of the upper reaches of the Tovuzchai River, kurgans and earth graves are predominantly found in the Mid Tovuzchai valley, while stone-covered burials and earth graves are largely excavated within the lower Tovuzchai Basin.

The burials at the Tovuzchai Necropolis have a distinctive construction style. Similar to the Zayamchai Necropolis, two types of burials were recorded at this site: stone-covered graves and earth graves. Based on some burial characteristics, primarily the height of the mound constructed of river-washed stones over the grave, the majority of stone-covered graves have thus far been classified by researchers as grave types that have no analogues elsewhere in Azerbaijan and the entire Caucasus. Burials of this type had been recorded only at the Zayamchai Necropolis. Graves

similar to those at the Tovuzchai and Zayamchai Necropolises are encountered at the Madnischal and Mtskheta Necropolises – the sites of the early Late Bronze Age (14<sup>th</sup>-13<sup>th</sup> centuries, B.C.) excavated in East Georgia. It appears that stone-covered burials occupied a certain place in the burial practices of tribes residing in West Azerbaijan and the Mid Kura valley in East Georgia during the late Bronze Age to early Iron Age.

The archaeological materials recovered from the Tovuzchai burials are representative of the Khojali-Gedabey Culture and encompass the entire East and Central Caucasus. Similar artefacts are encountered in the Samtavr and Til Cemeteries in Georgia and Lake Goycha Basin in the present Armenia, Mugan Plain and foothills of the Talish Mountains, Shamkirchai and Ganja chai River Basins, old Gushchu, Saritepe and Gazakhbeyli Cemeteries, Absheron, Gobustan, Mingechevir, Khachbulag and Vardanli, Khanlar, Agjabedi, Gabala, Dashkasan and Gedabey Districts. Some of the pottery ware from this site is similar to the Middle Asian, Iranian, Turkish and Syrian ceramics.

All the above discussion shows that the results of excavations carried out at the Tovuzchai Necropolis are important for the study of aspects of the material culture of the west of Azerbaijan during the late Bronze Age to early Iron Age.

## VI. Illustrations



*Plate 1 View of Excavation Site I.*



*Plate 2 View of Excavation Site I.*



*Plate 3 Grave 6.*



*Plate 4 Grave 6.*



*Plate 5 Grave 7.*



*Plate 6 Grave 8.*



*Plate 7 Grave 13.*



*Plate 8 Grave 14.*



*Plate 9 Grave 15.*



*Plate 10 Grave 16.*



*Plate 11 Grave 17.*



*Plate 12 Grave 18.*



*Plate 13 Grave 19.*



*Plate 14 Grave 20.*



*Plate 15 Grave 21.*



*Plate 16 Grave 22.*



*Plate 17 Grave 24.*



*Plate 18 Grave 25.*



*Plate 19 Grave 26.*



*Plate 20 Grave 27.*



*Plate 21 Grave 28.*



*Plate 22 Grave 32.*



Plate 23 Grave 33.



Plate 24 Grave 34.



*Plate 25 Grave 35.*



*Plate 26 Grave 36.*



Plate 27 Grave 37.



Plate 28 Grave 38.



Plate 29 Grave 39.



Plate 30 Grave 40.



Plate 31 Grave 41.



Plate 32 Grave 42.



Plate 33 Grave 42a.



Plate 34 Grave 43.



Plate 35 Grave 44.



Plate 36 Grave 45.



Plate 37 Grave 46.



Plate 38 Grave 47.



*Plate 39 Grave 48.*



*Plate 40 Grave 49.*



Plate 41 Grave 50.



Plate 42 Grave 52.



Plate 43 Grave 55.



Plate 44 Grave 57.



Plate 45 Grave 58.



Plate 46 Grave 62.

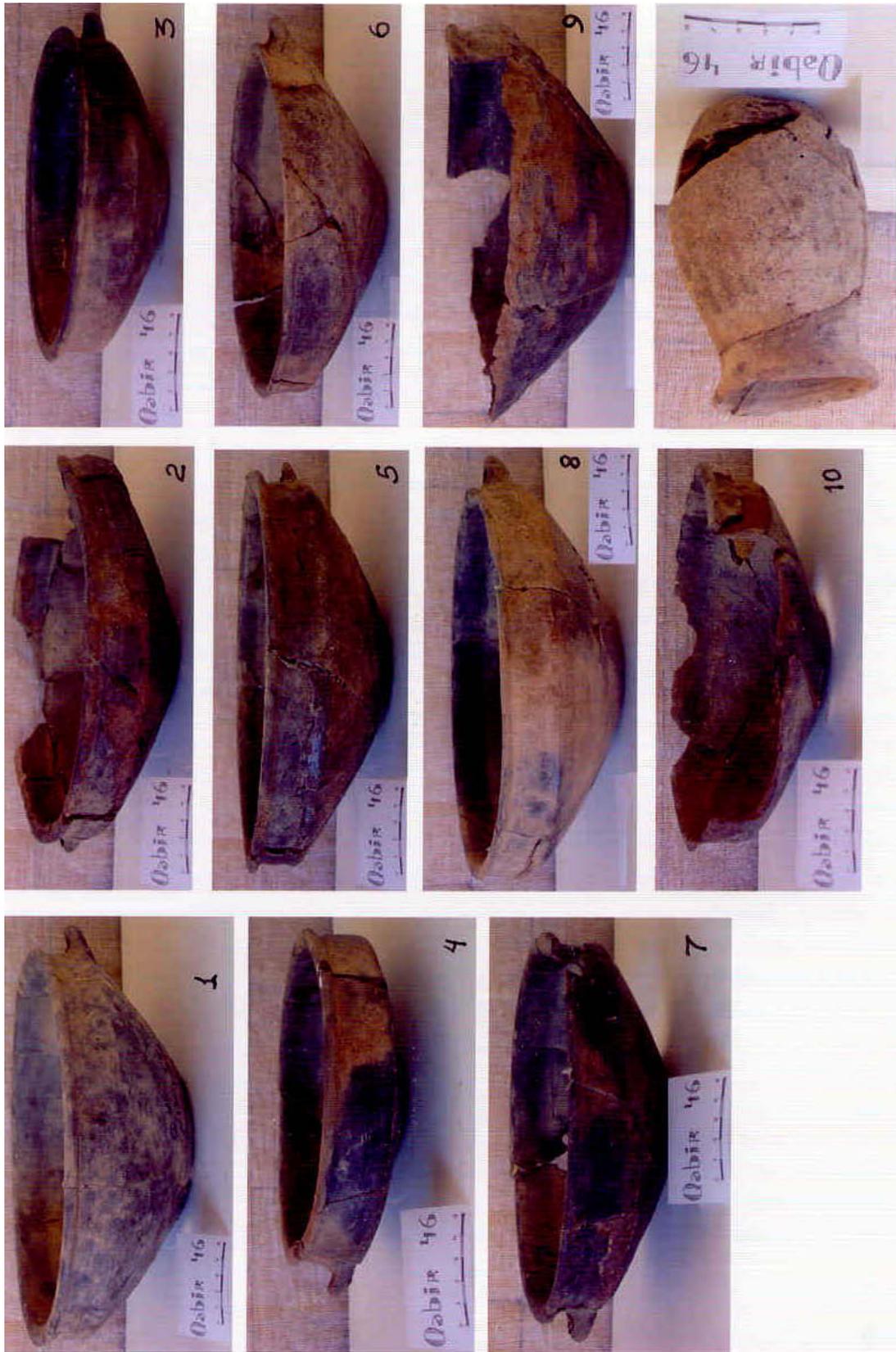


Plate 47 Grave 46 Pottery.

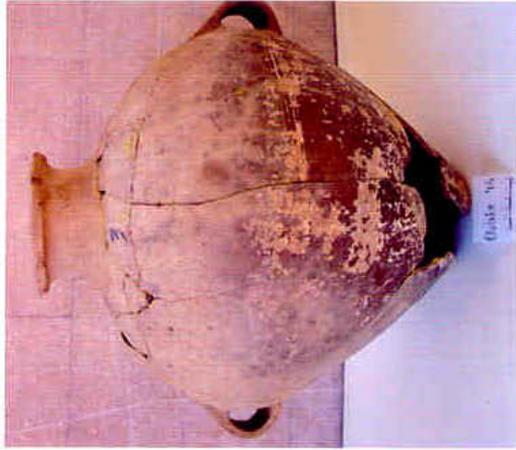


Plate 48 Grave 46 Pottery.

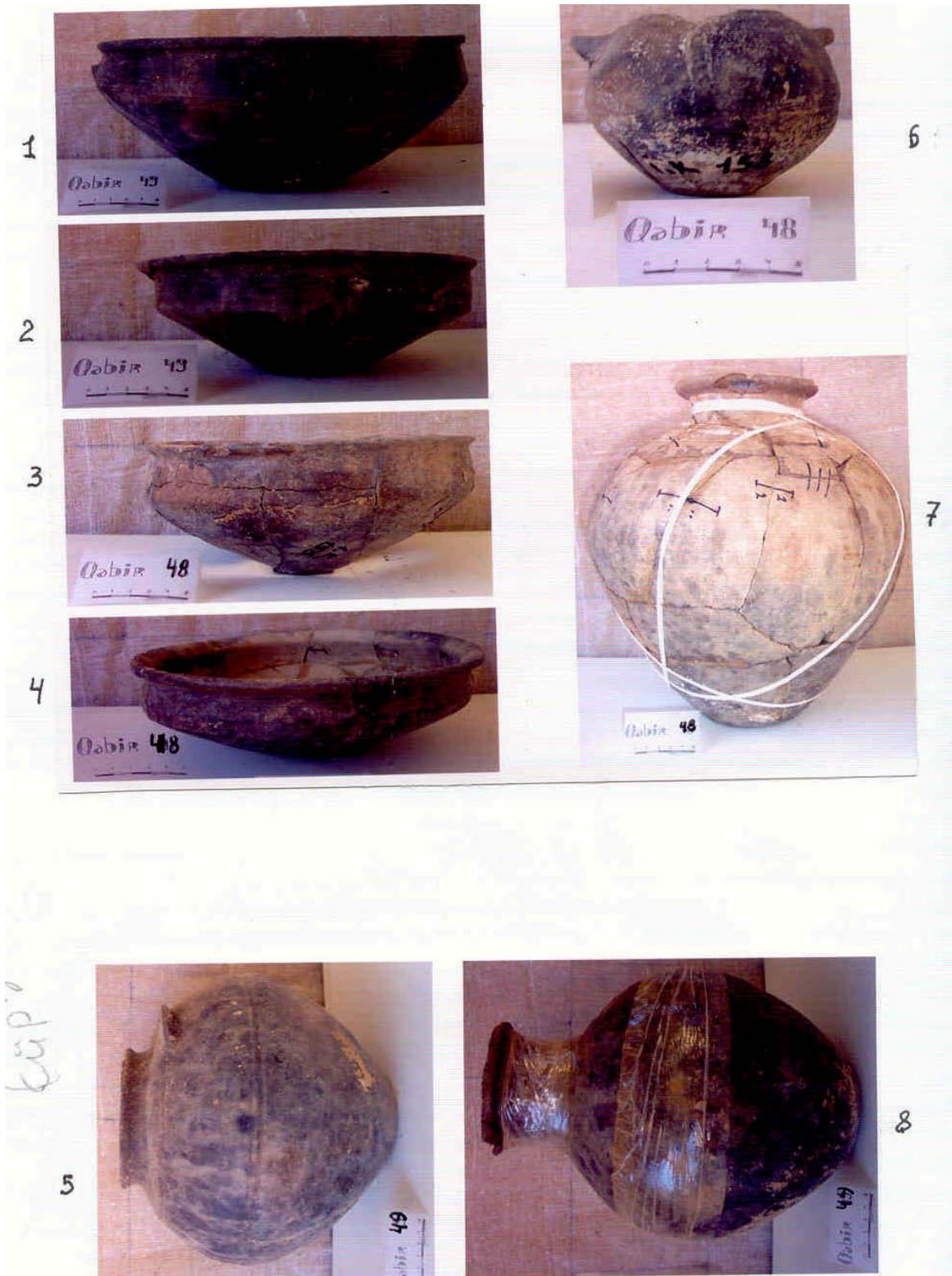


Plate 49 Grave 49 (1-2,5) Grave 48 (3-4,6-7).

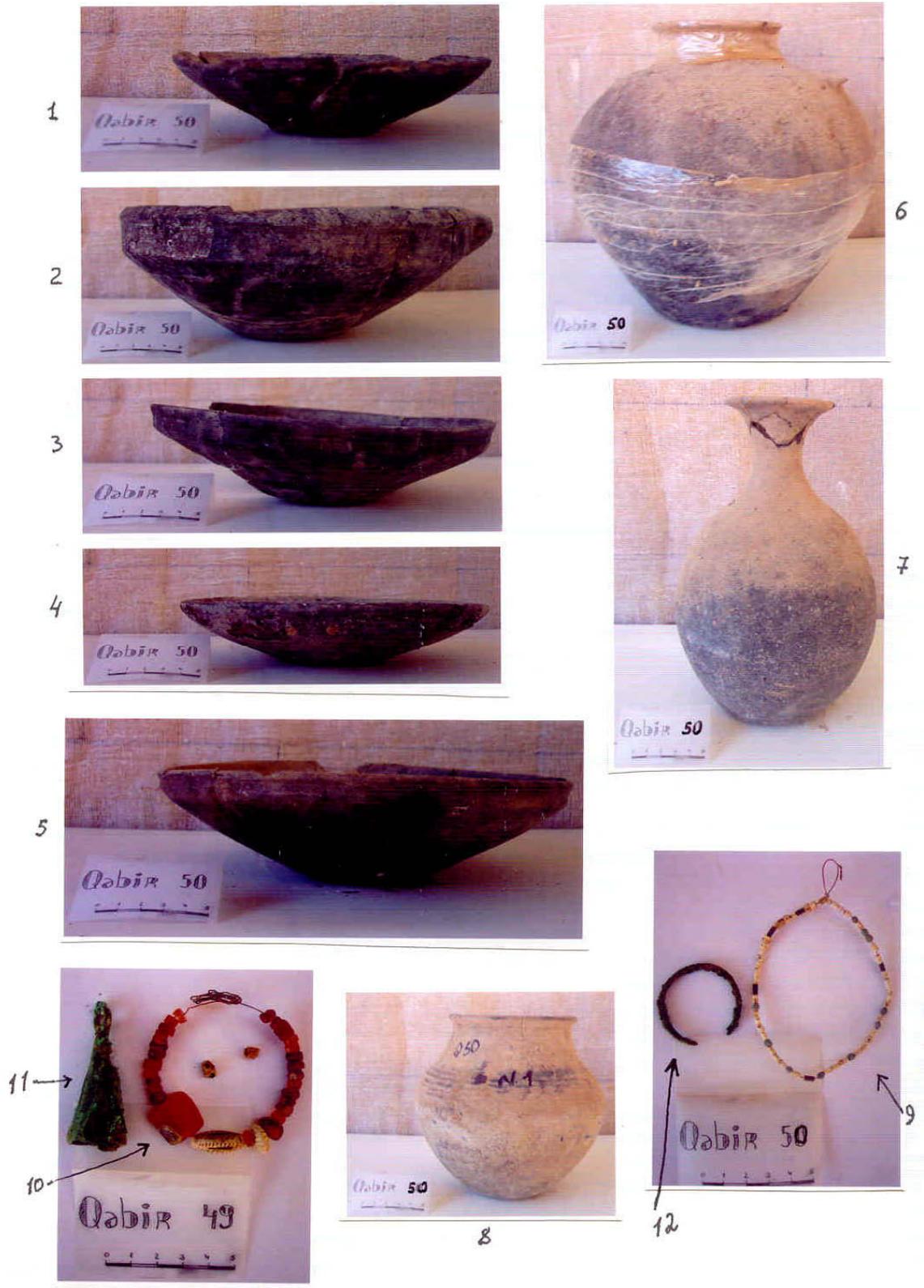


Plate 50 Finds Grave 49 (10-11) Grave 50 (1-9, 12)



1



2 (N/183)



3

(N 184)



Plate 51 Pottery Grave 47 (1) Grave 51 (2-5).

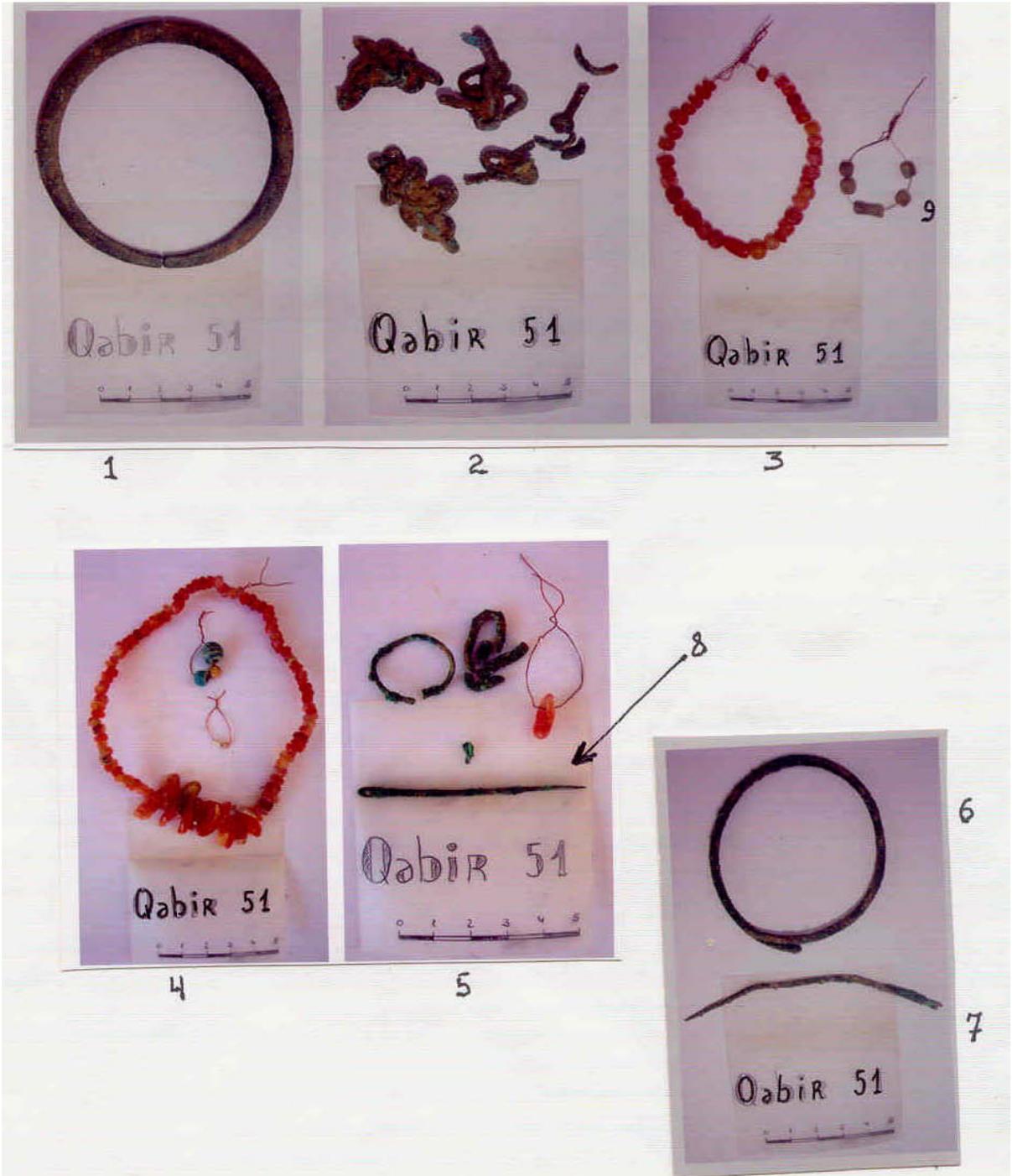


Plate 52 Grave 51 Beads and ornaments.



Plate 53 Grave 46 (2-4, 7-15) Grave 47 (5, 16-19).

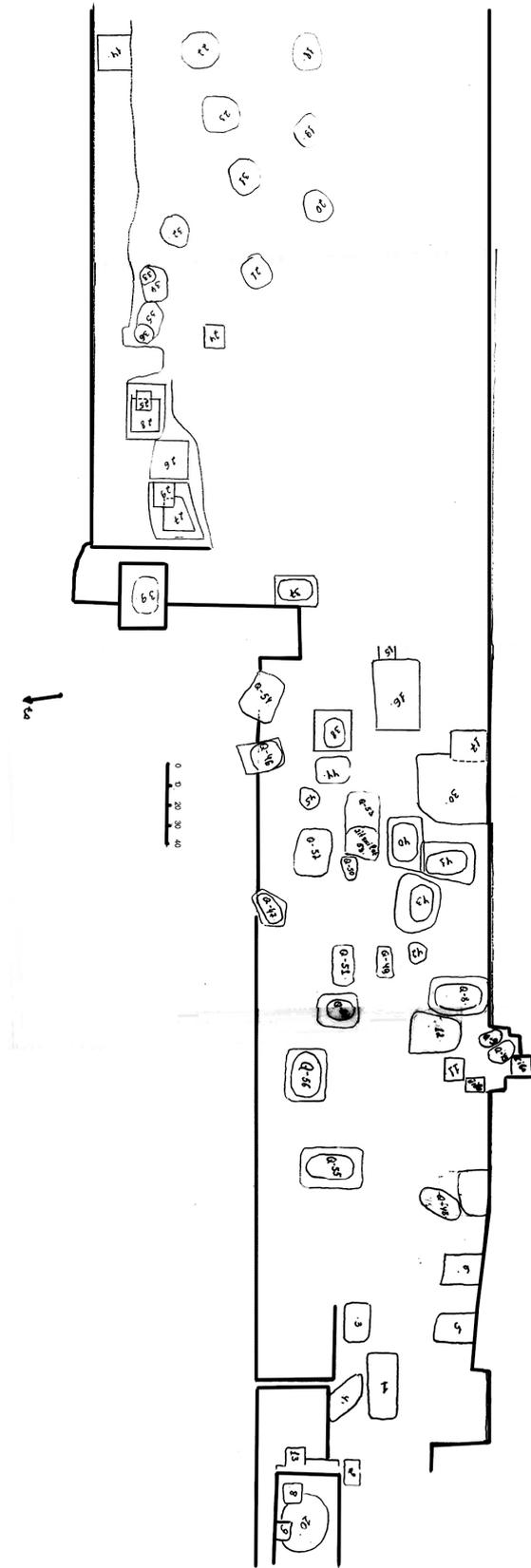


Figure 1 KP378 Tovuzchai Excavation Site I.



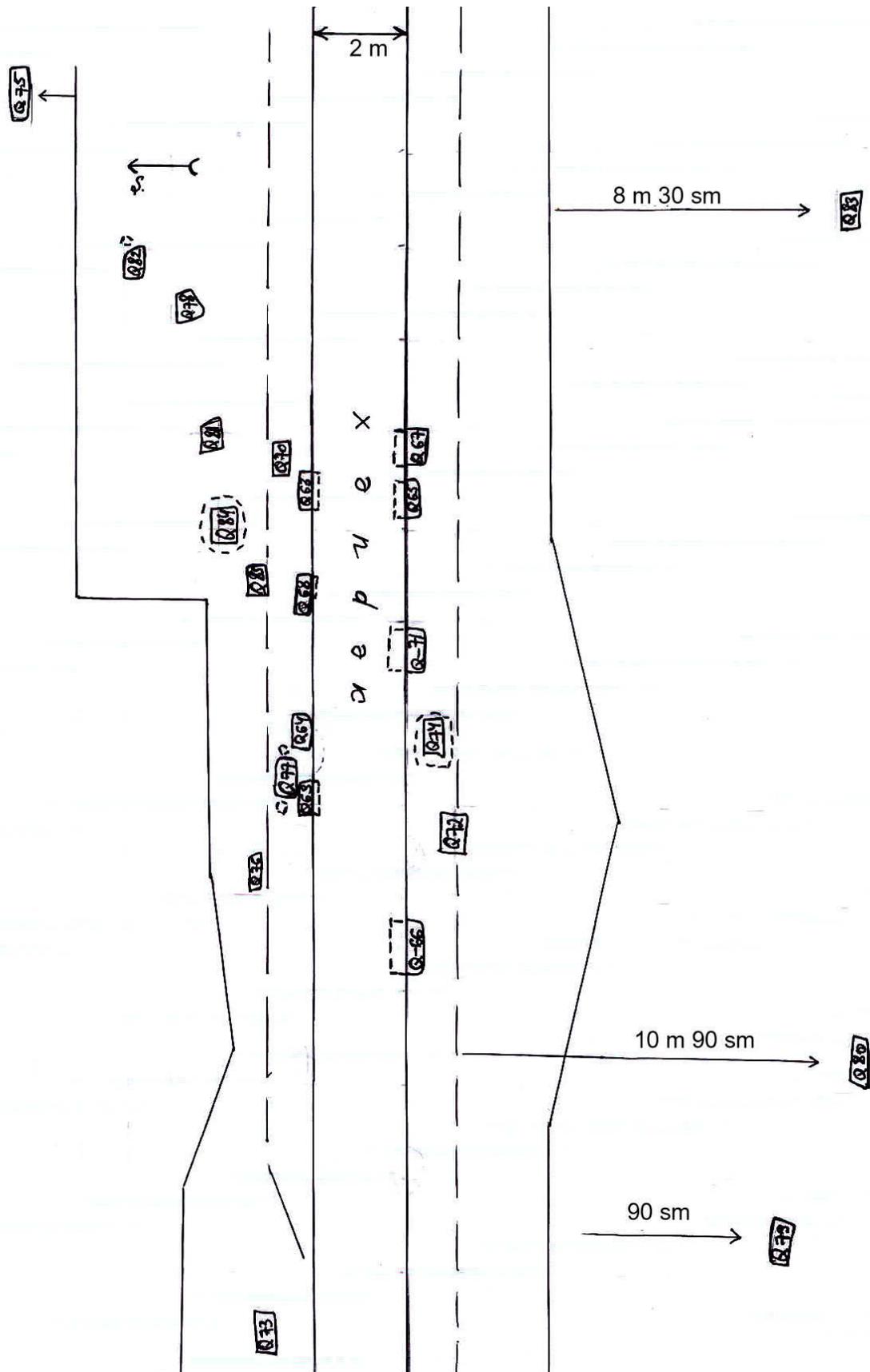


Figure 3 KP378 Tovuzchai Excavation Site II.

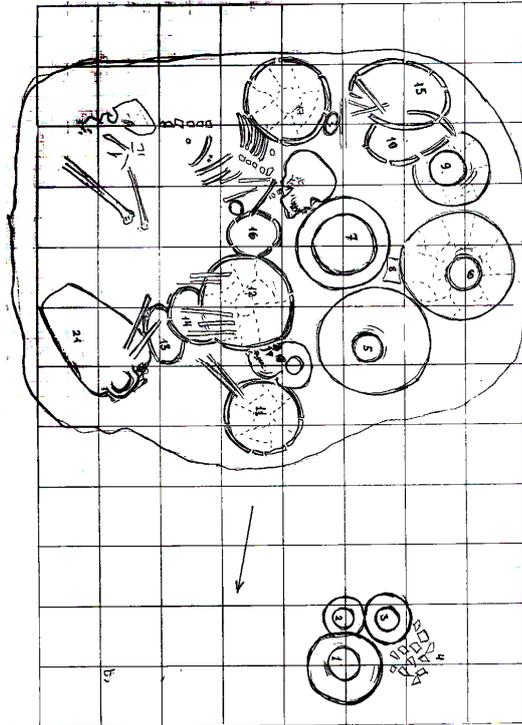


Figure 4 Grave 46 Plan.

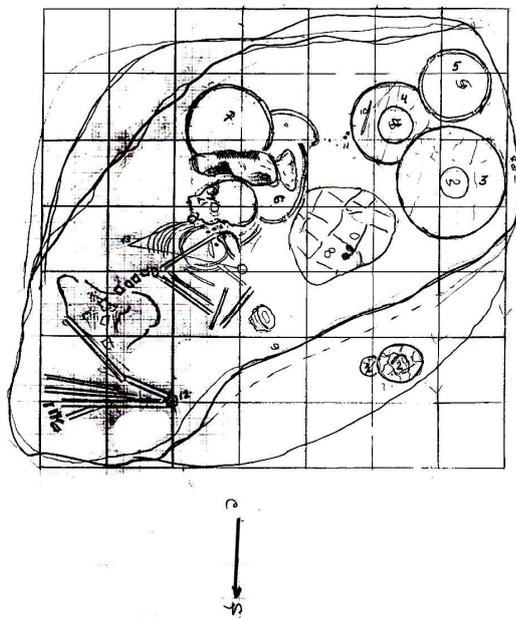


Figure 5 Grave 47 Plan.

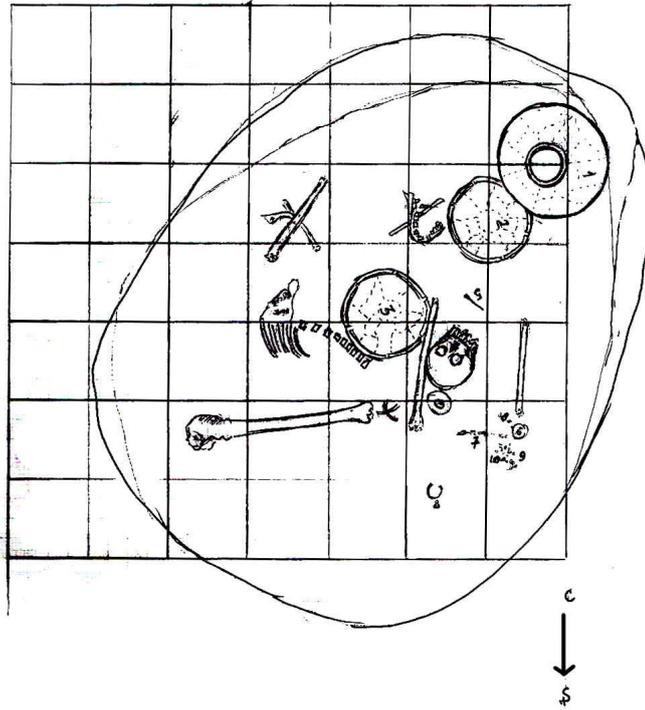


Figure 6 Grave 48 Plan.

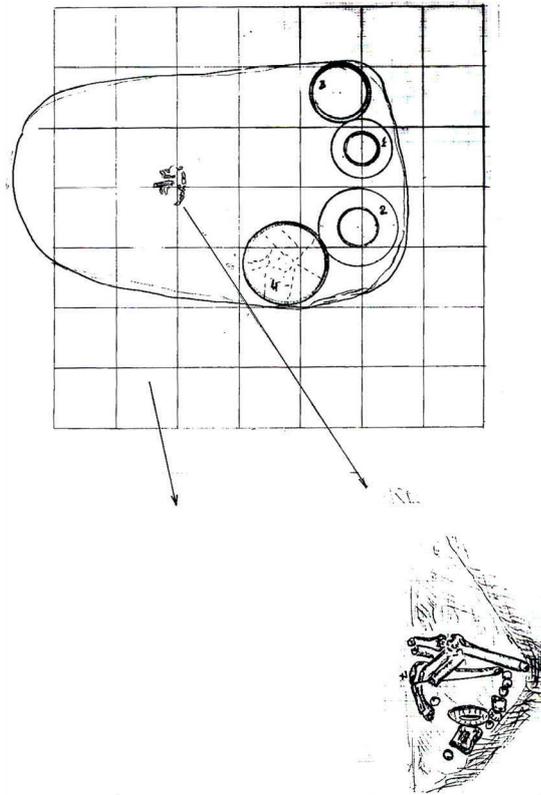
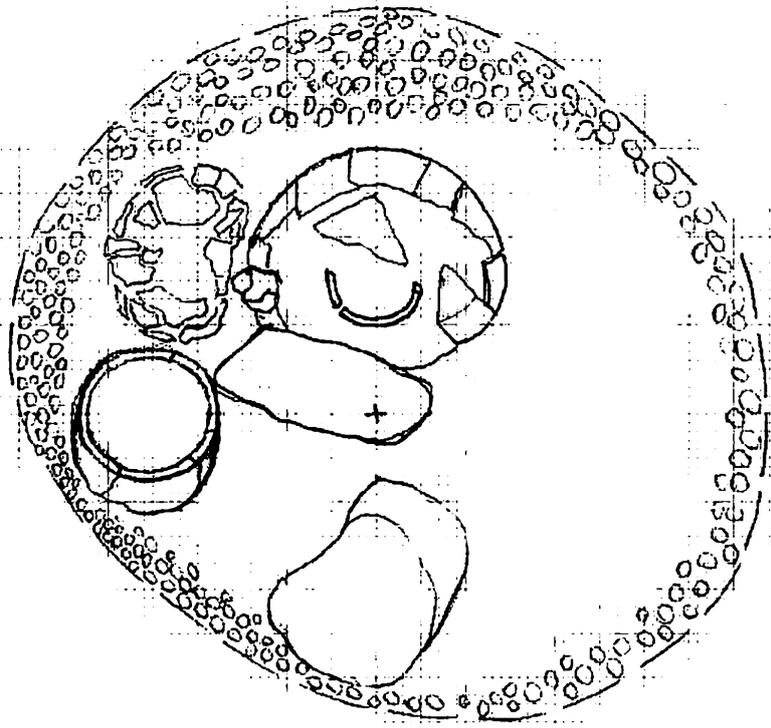


Figure 7 Grave 49 Plan.



0

50



Figure 8 Grave 60 Plan.

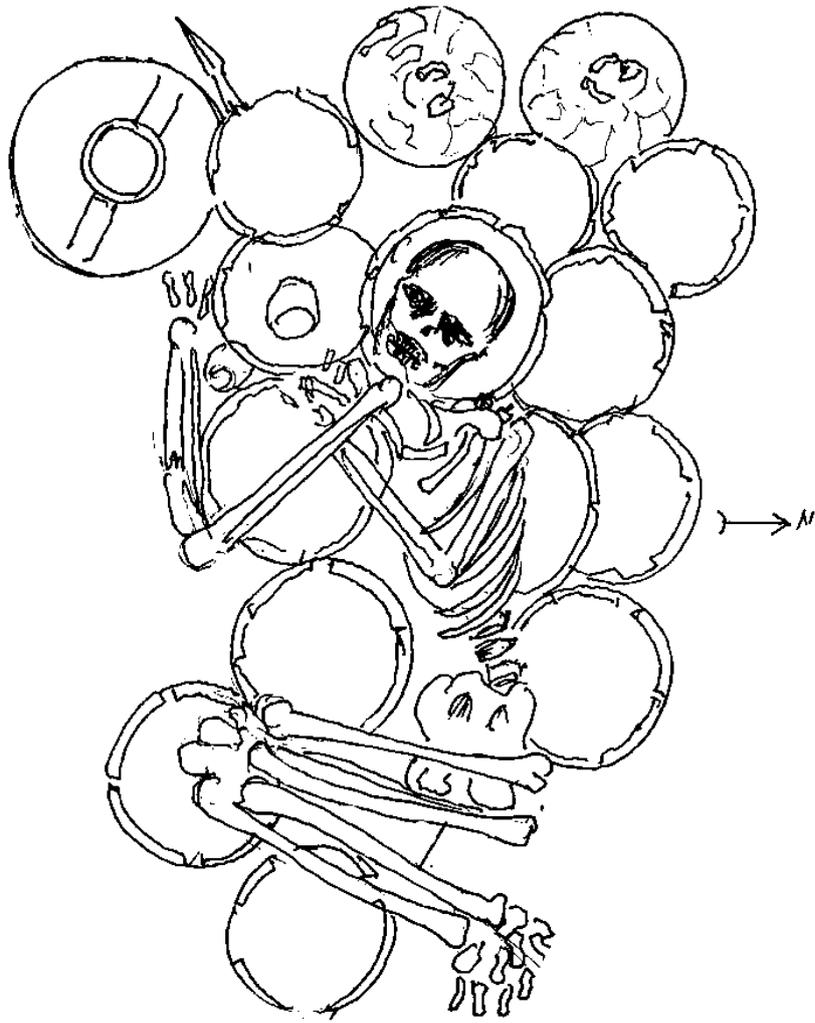


Figure 9 Grave 70 plan.

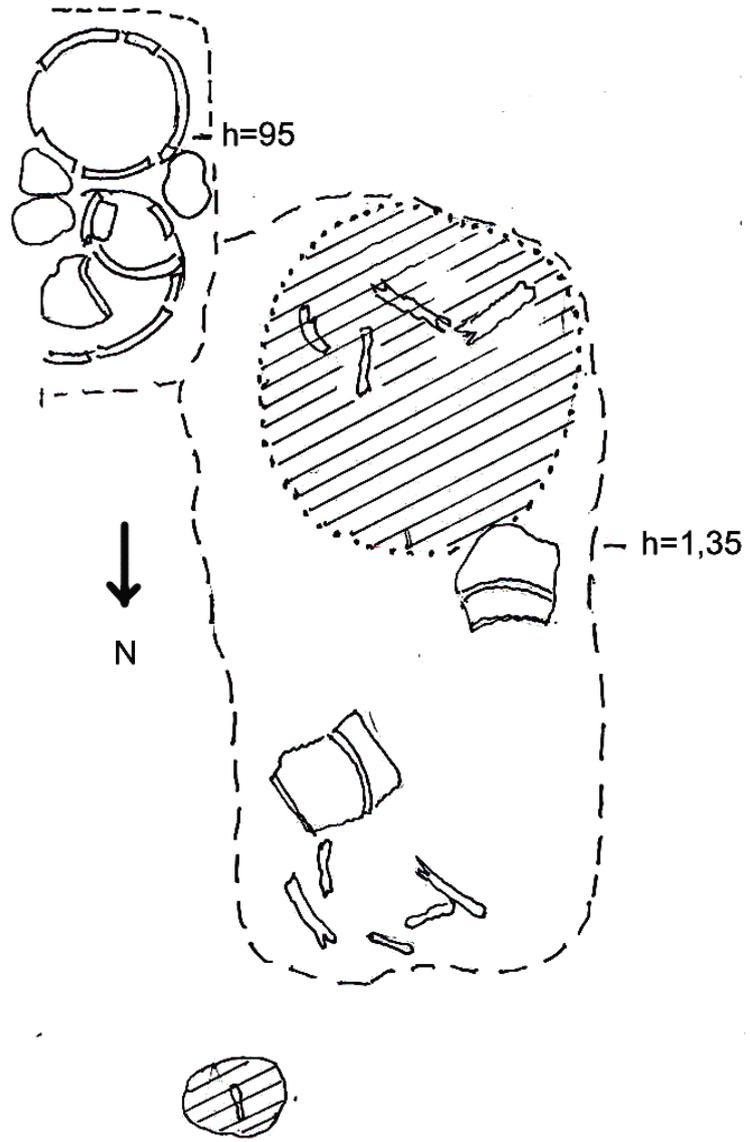


Figure 10 Grave 72 Plan.

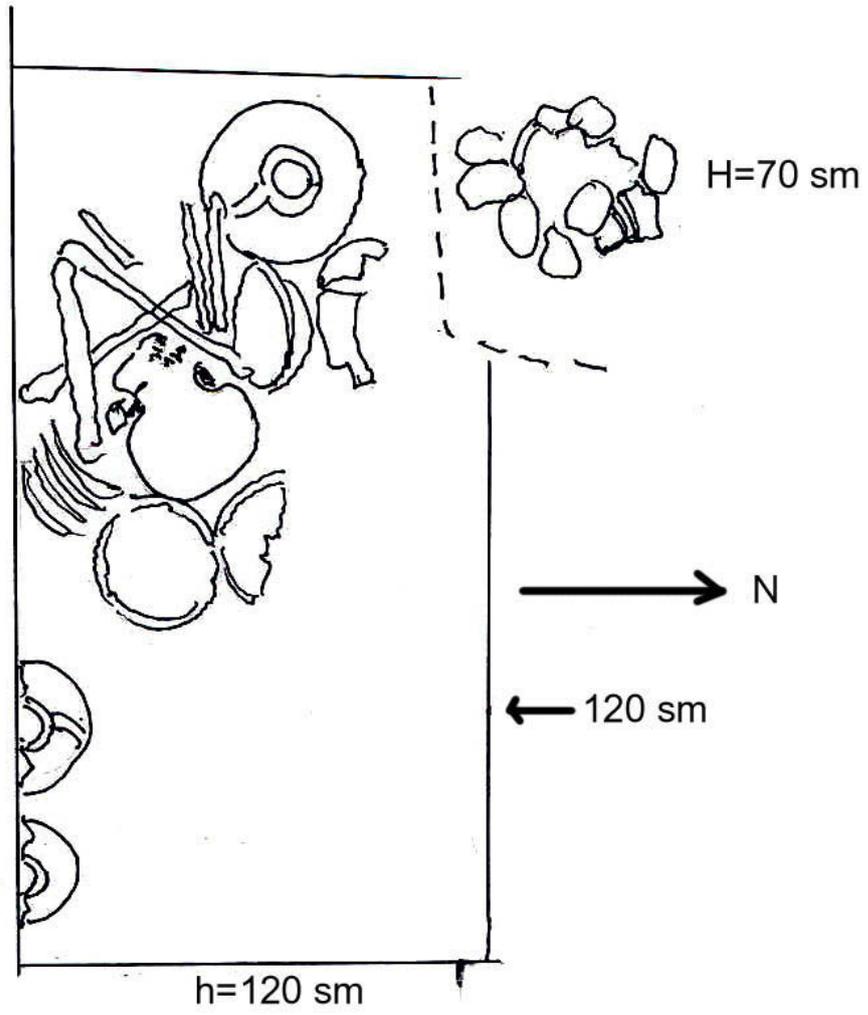


Figure 11 Grave73 Plan.

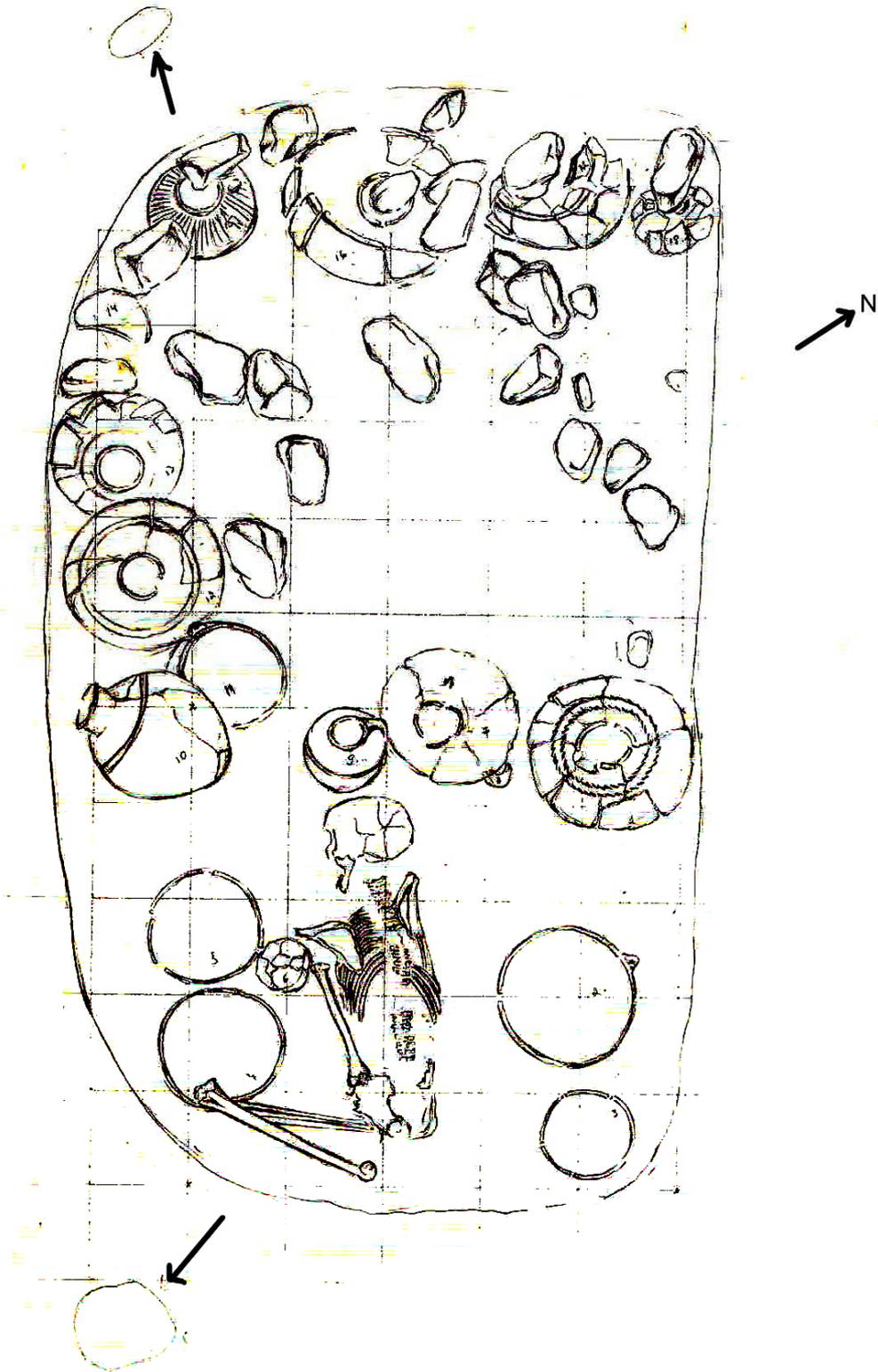


Figure 12 Grave 76 Plan.

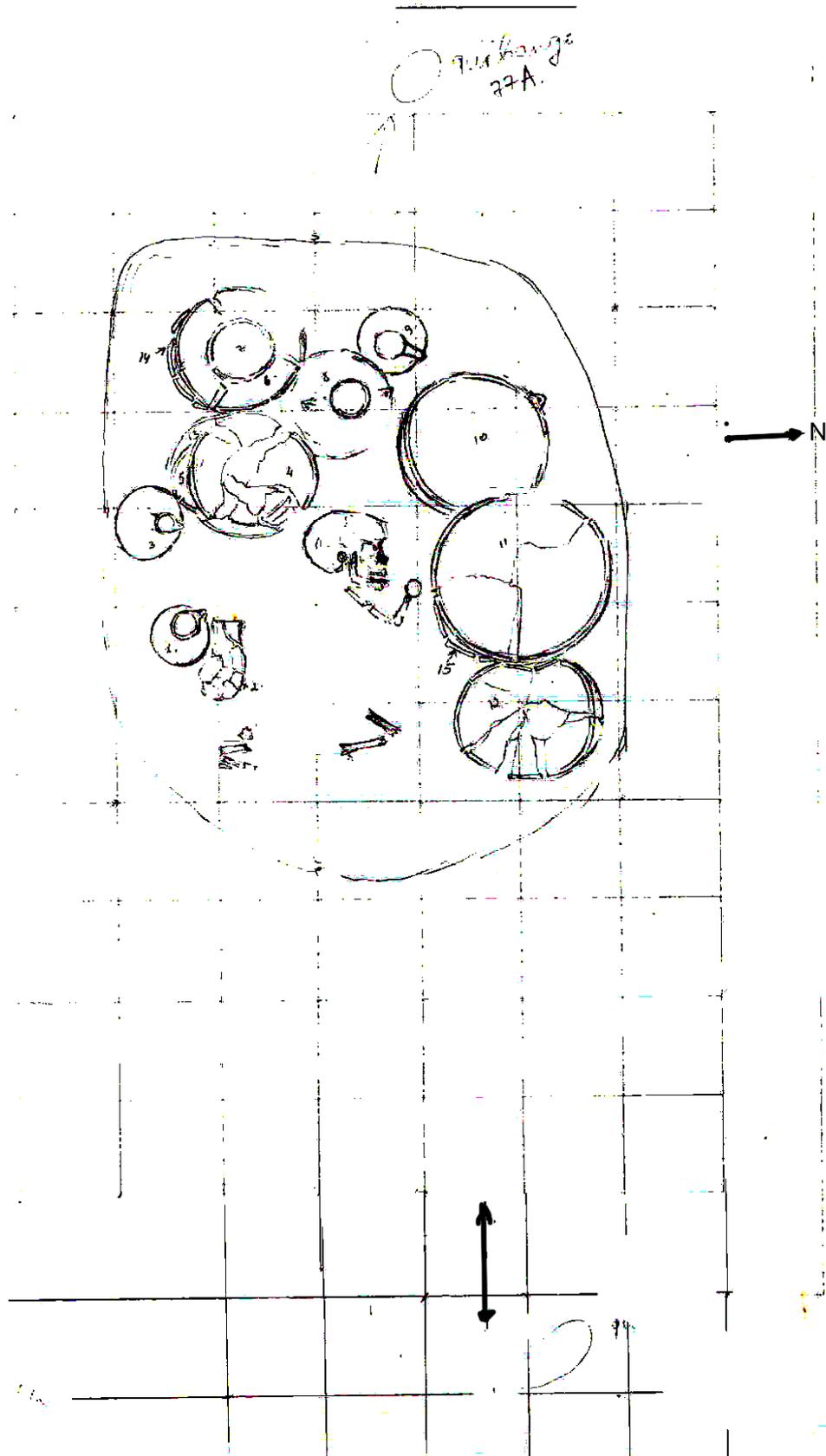


Figure 13 Grave 77 Plan.





Figure 15 Grave 80 Plan.

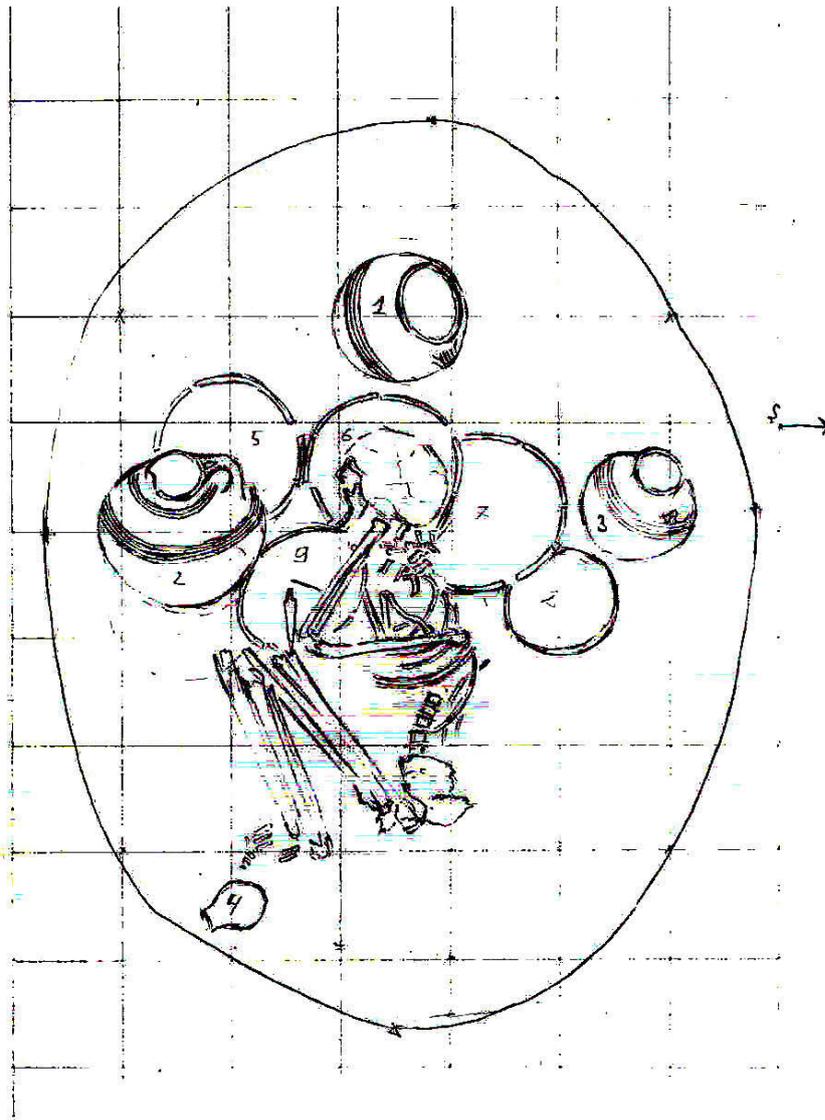


Figure 16 Grave 81 Plan.

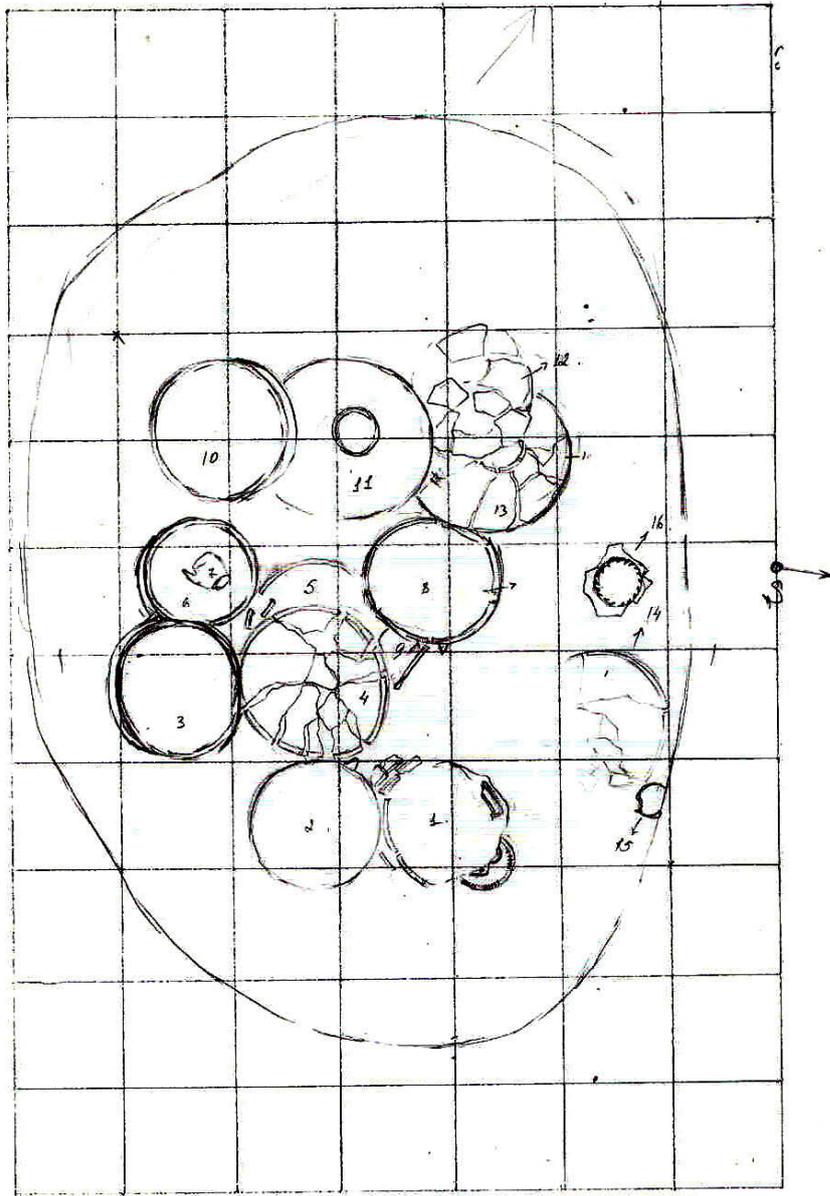


Figure 17 Grave 82 Plan.

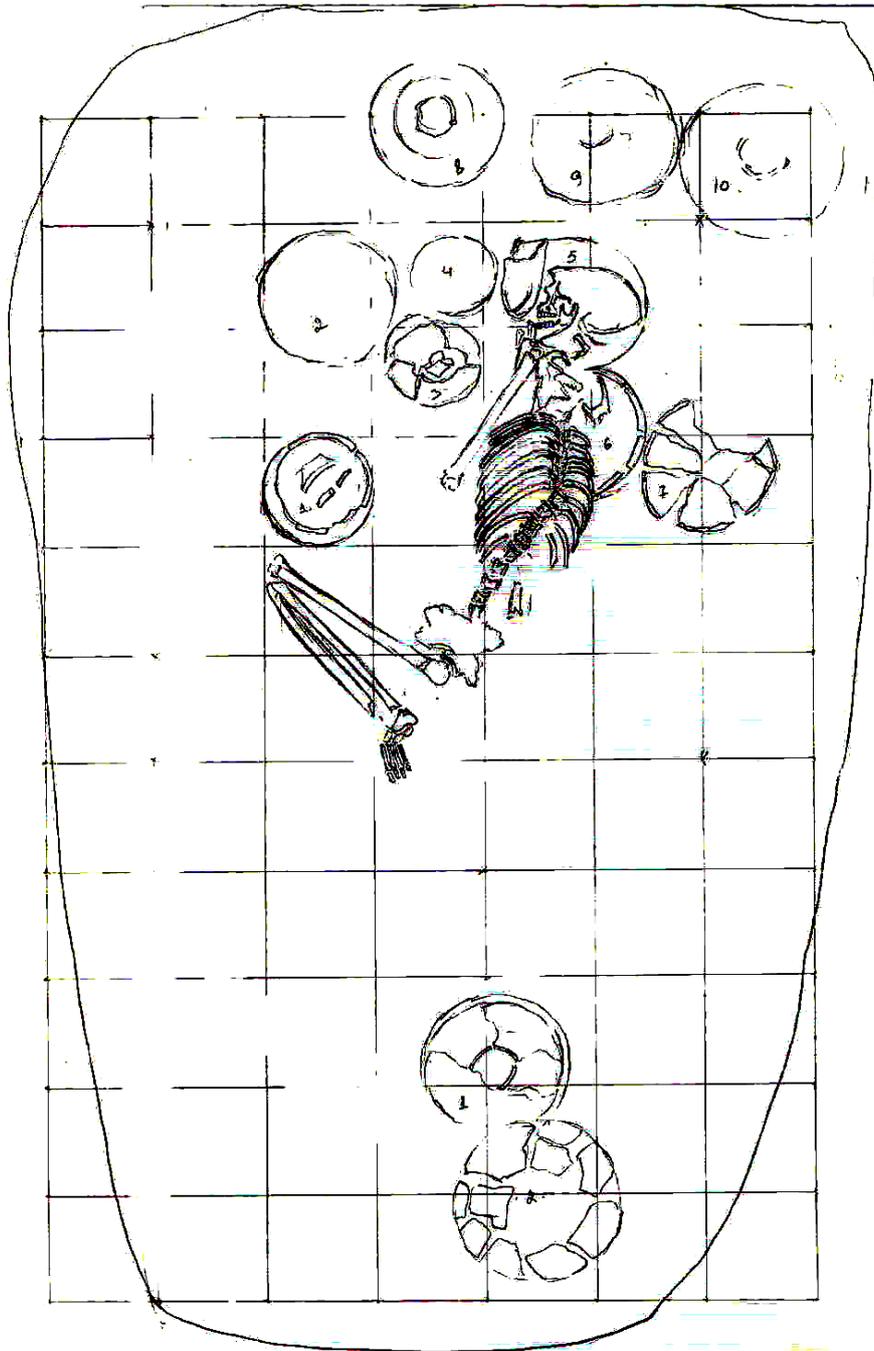


Figure 18 Grave 83 Plan.

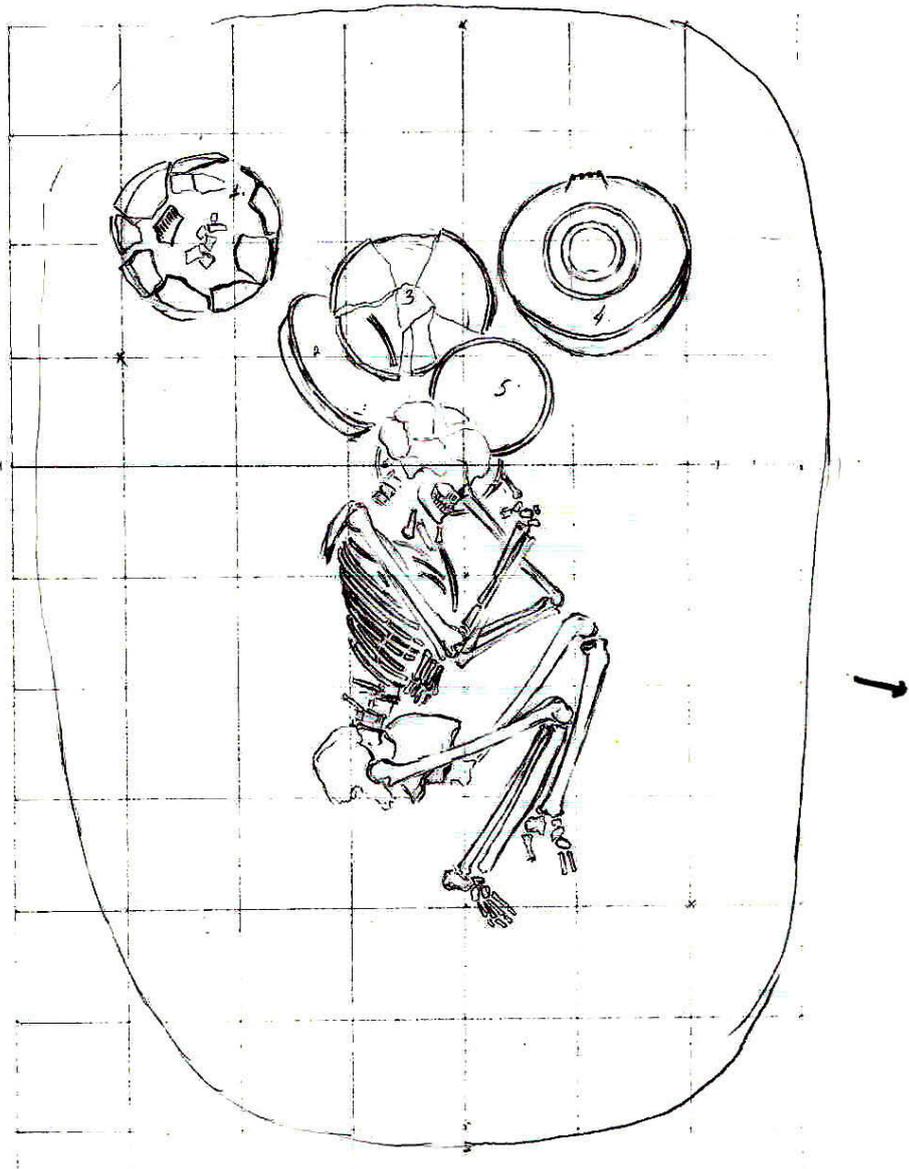


Figure 19 Grave 84 Plan.

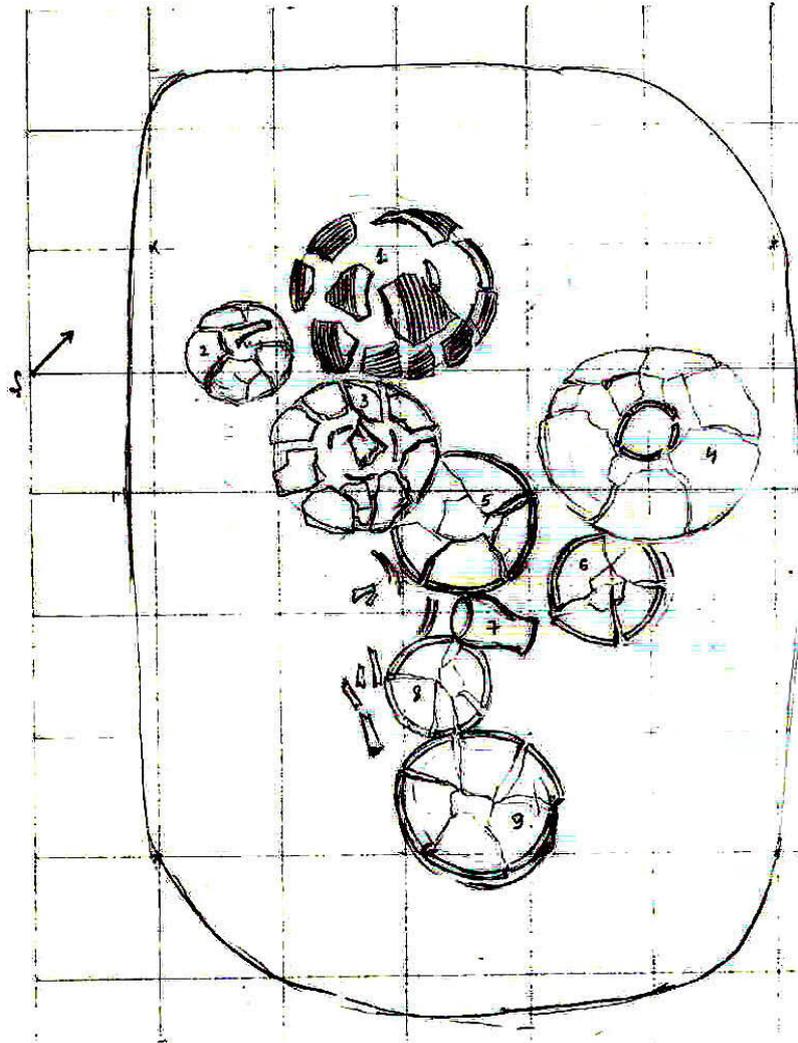


Figure 20 Grave 85 Plan.

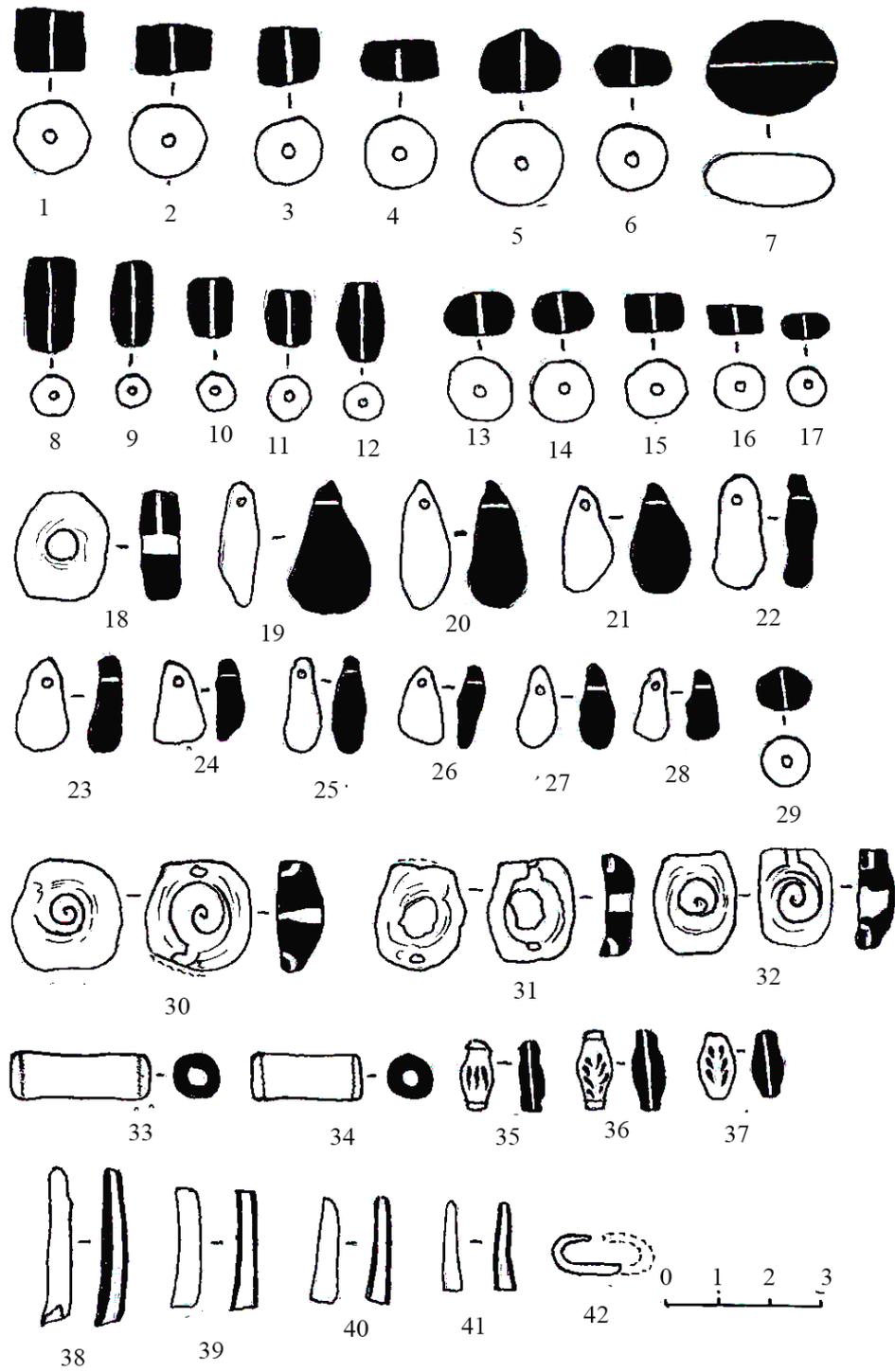


Figure 21 Beads Grave 19 (1-2, 33-42) Grave 69 (30-32).

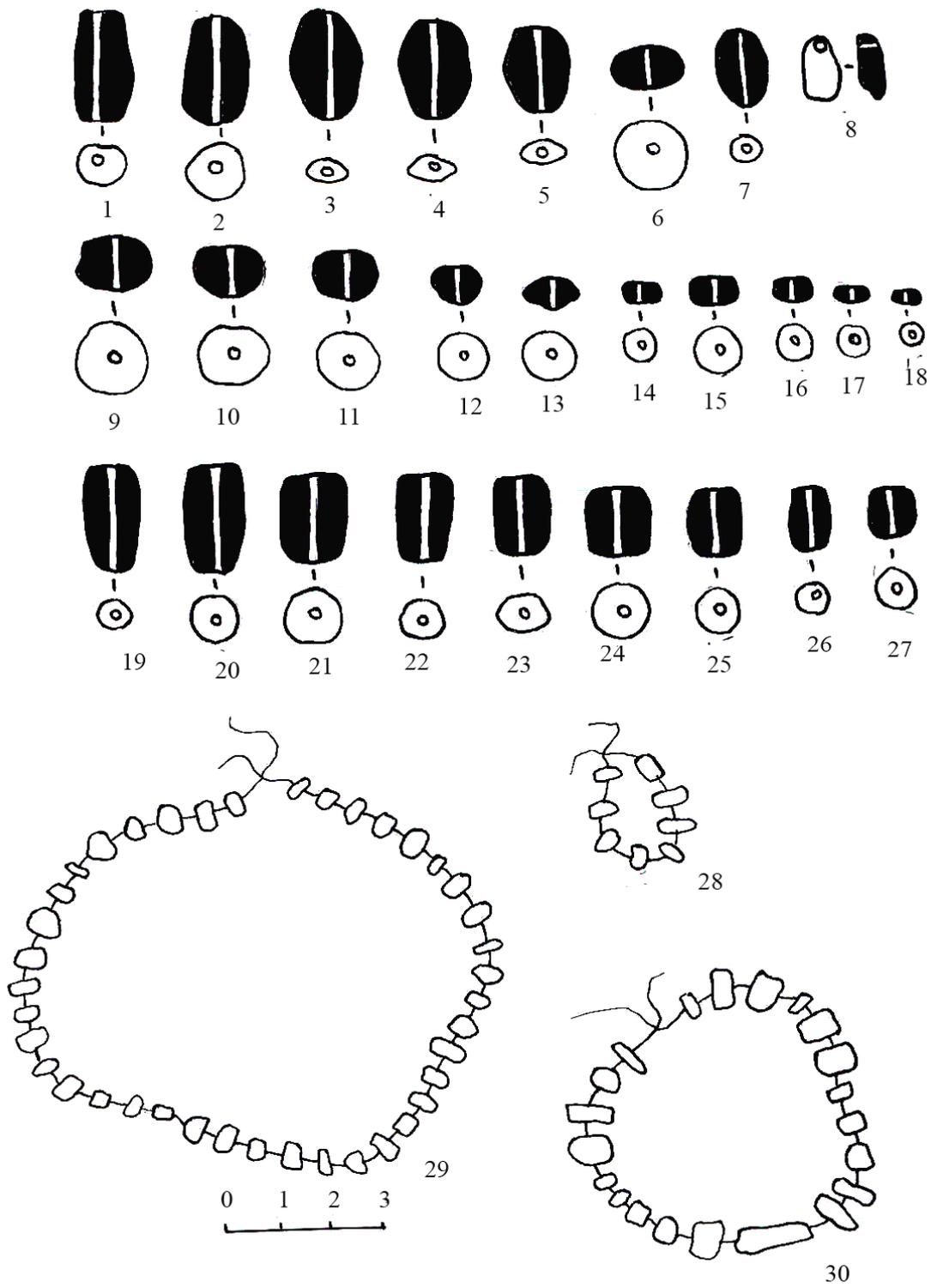


Figure 22 Beads Grave 53 (1-8) Grave 69( 9-27) Grave 77 (28) Grave 19 (29) Grave 84(30).

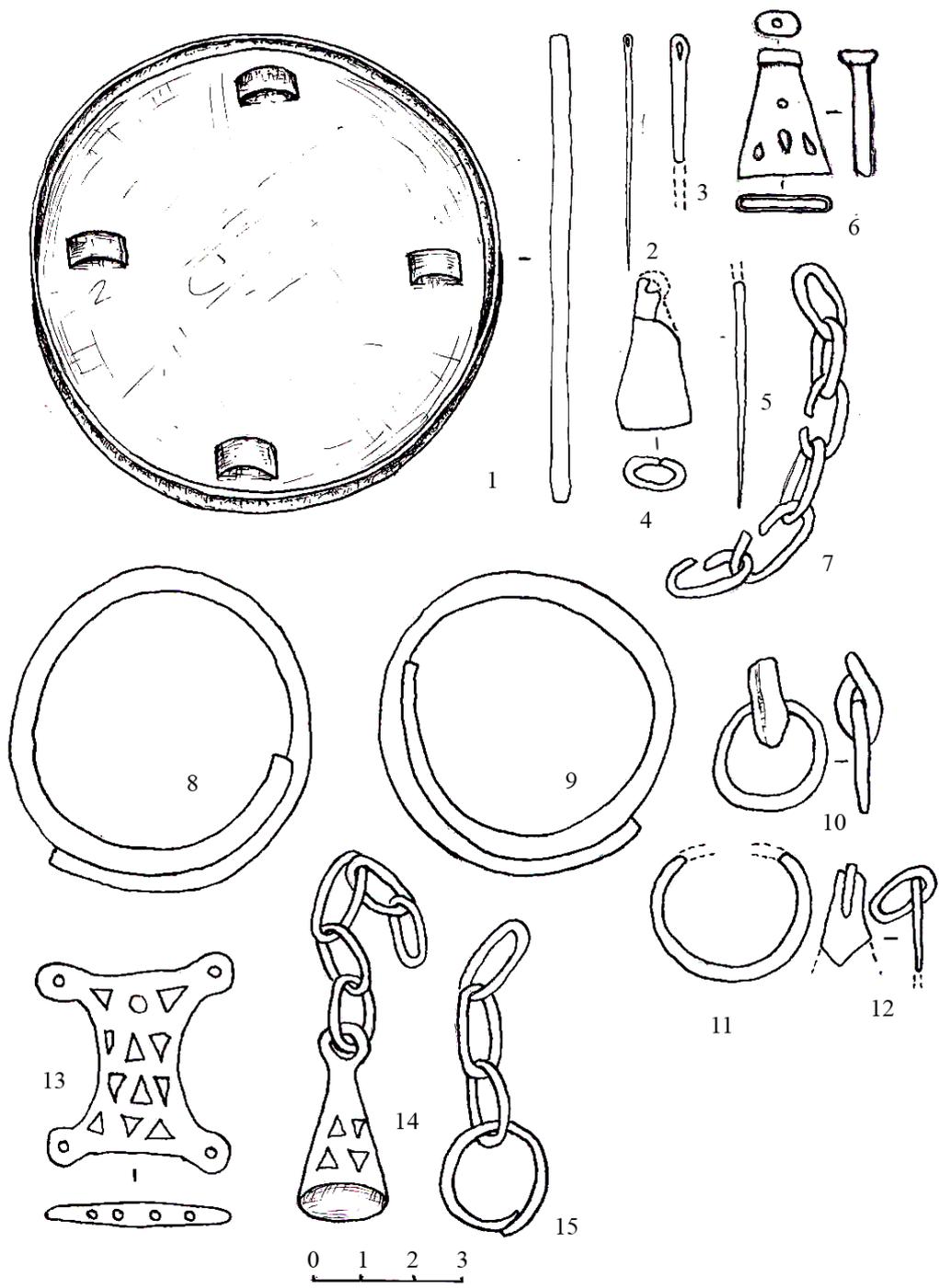


Figure 23 Grave 19 Bronze ornaments.

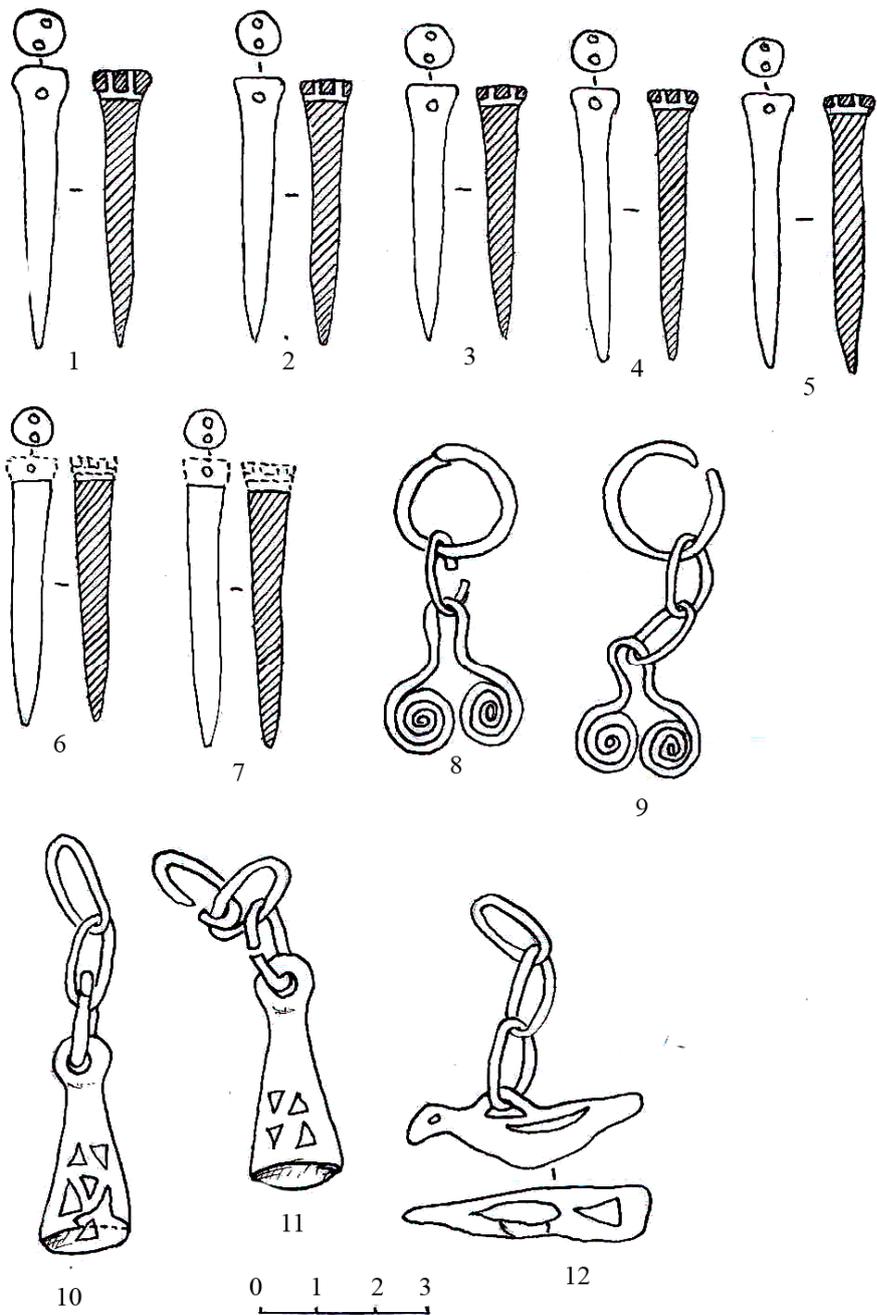


Figure 24 Grave 19 Bronze Ornaments.

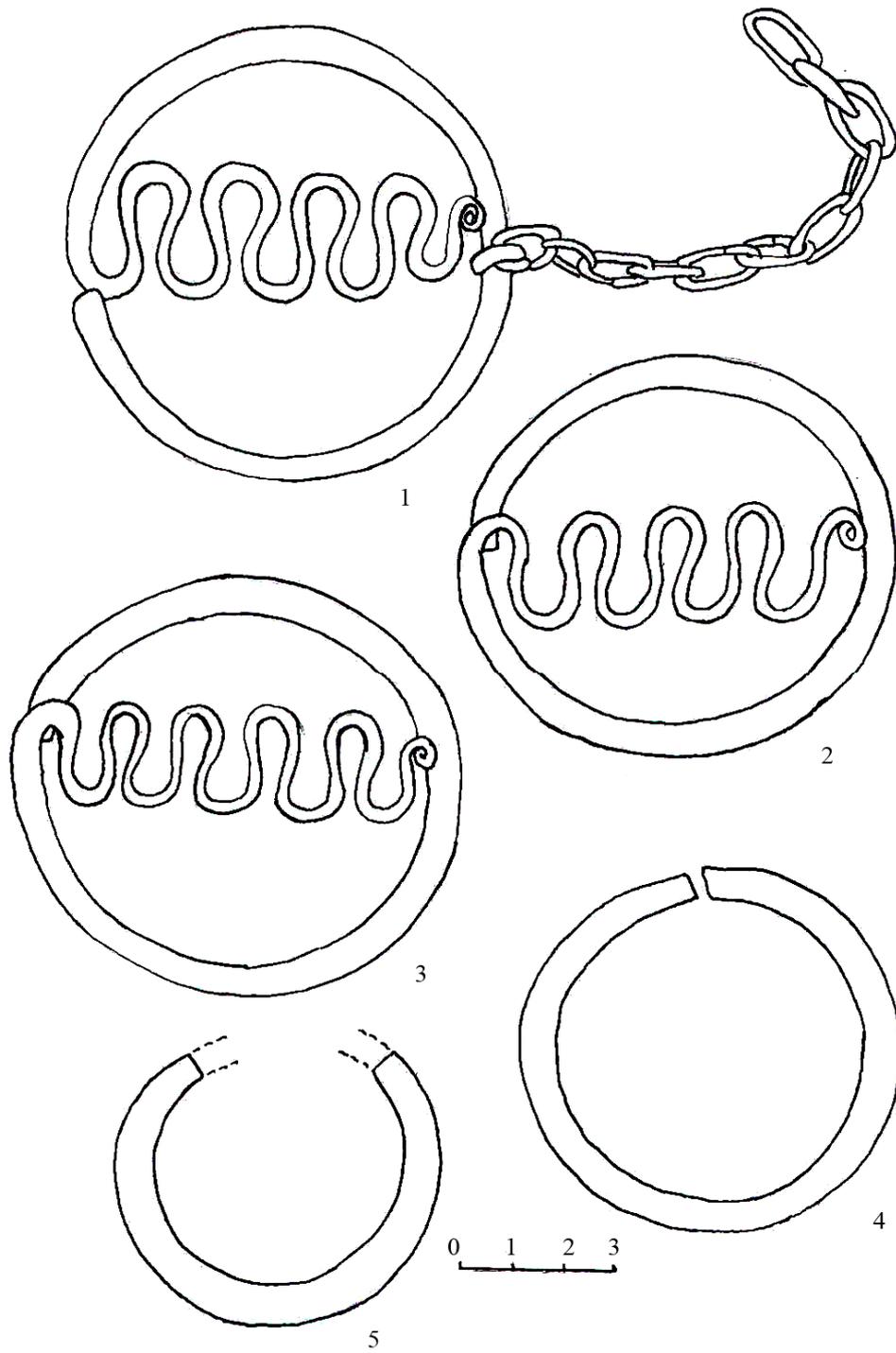


Figure 25 Bronze Decorations Grave 28 (1) Grave 8 (2-3) Grave 6 (4) Grave 53 (5).

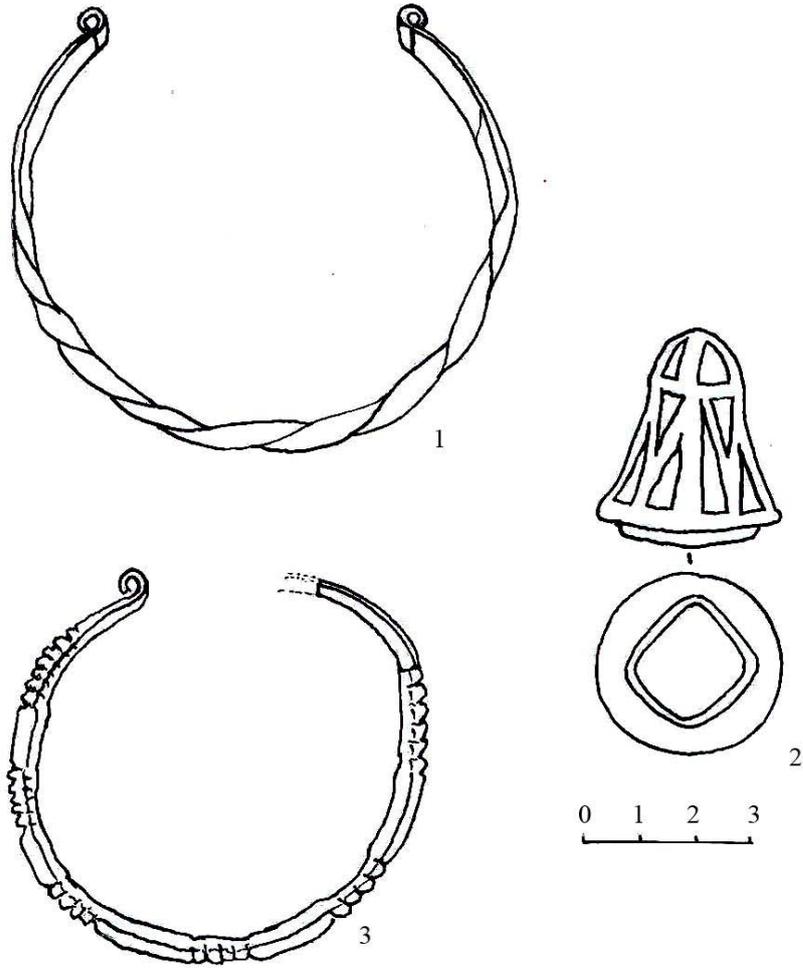


Figure 26 Bronze fittings Grave 45 (1) Grave 79 (2-3).

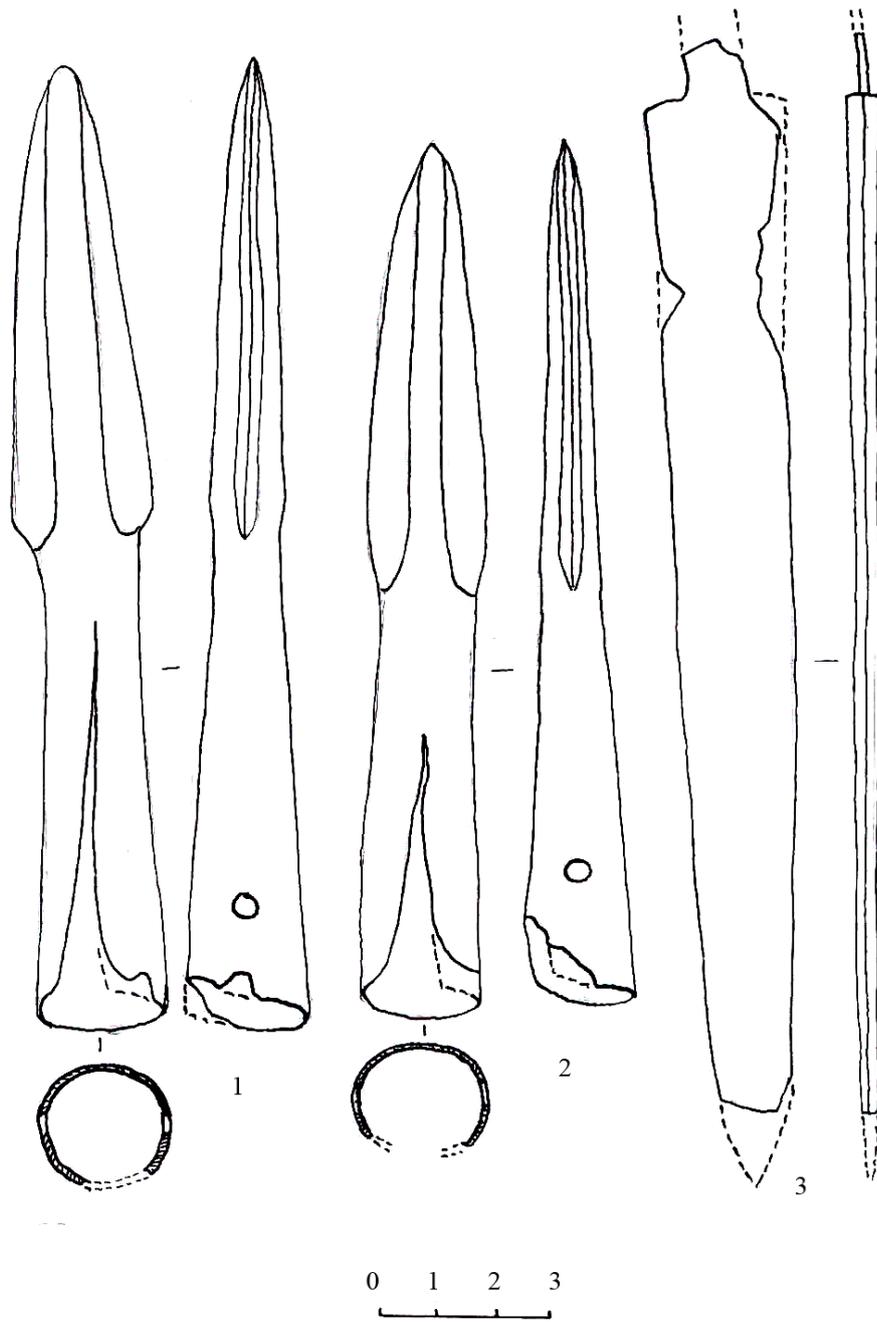


Figure 27 Bronze weapons Grave 16 (1,3) Grave 70 (2).

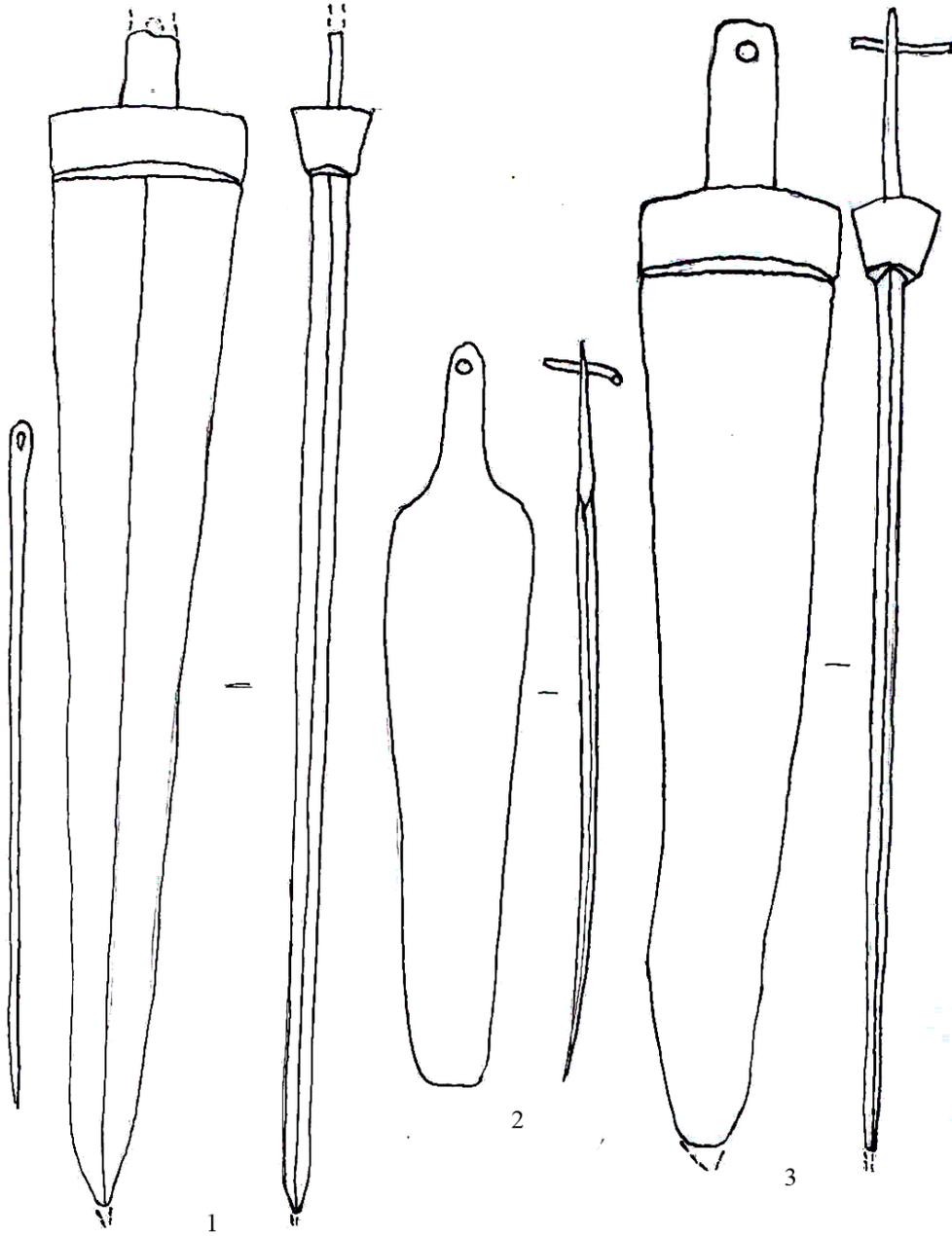


Figure 28 Bronze Daggers Grave 81(1) Grave 30 (2) Grave 16 (3).

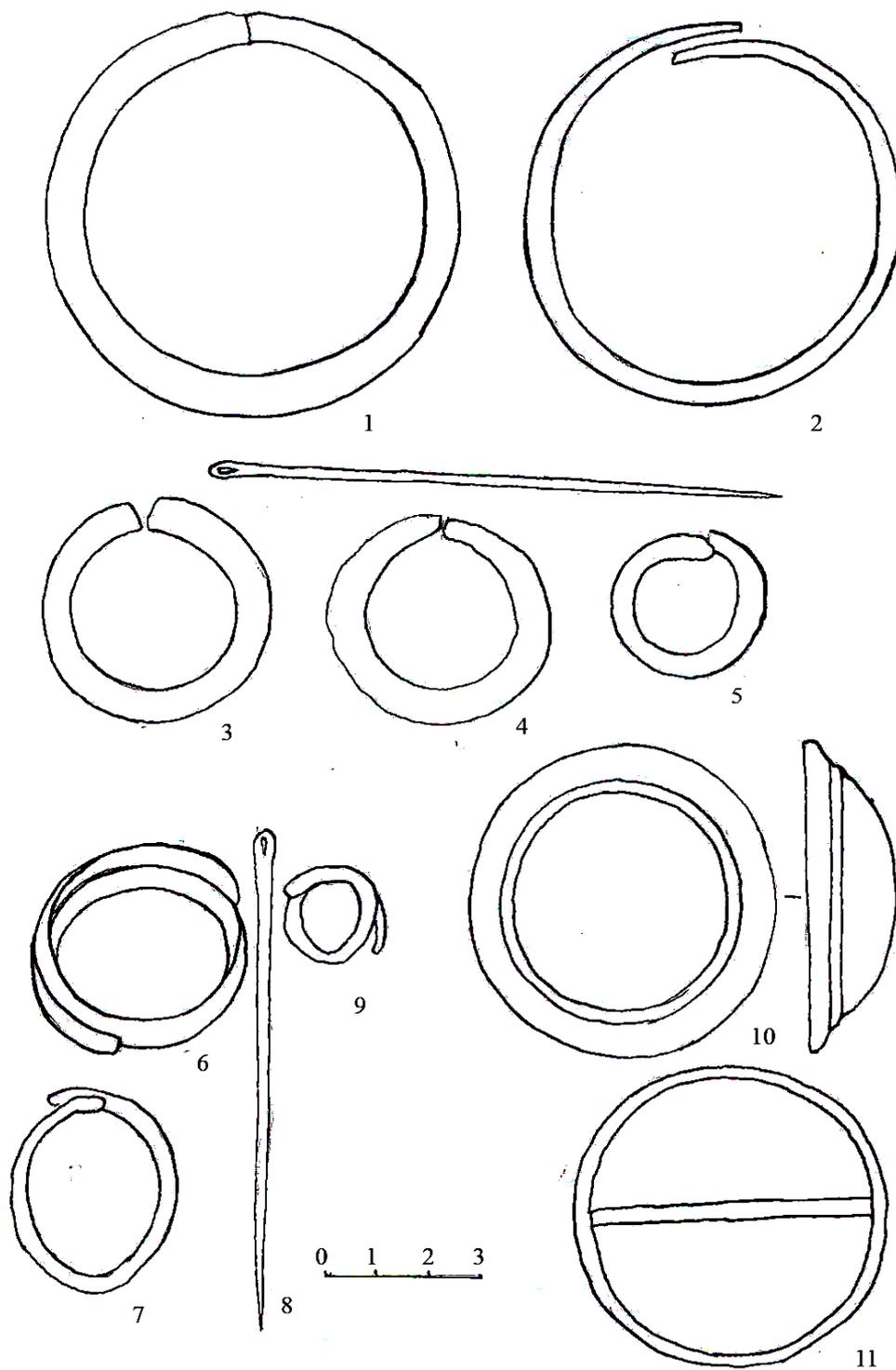


Figure 29 Bronze fittings Grave 84 (1) Grave 79 (2) Grave 25(3-5) Grave 76 (6-11).

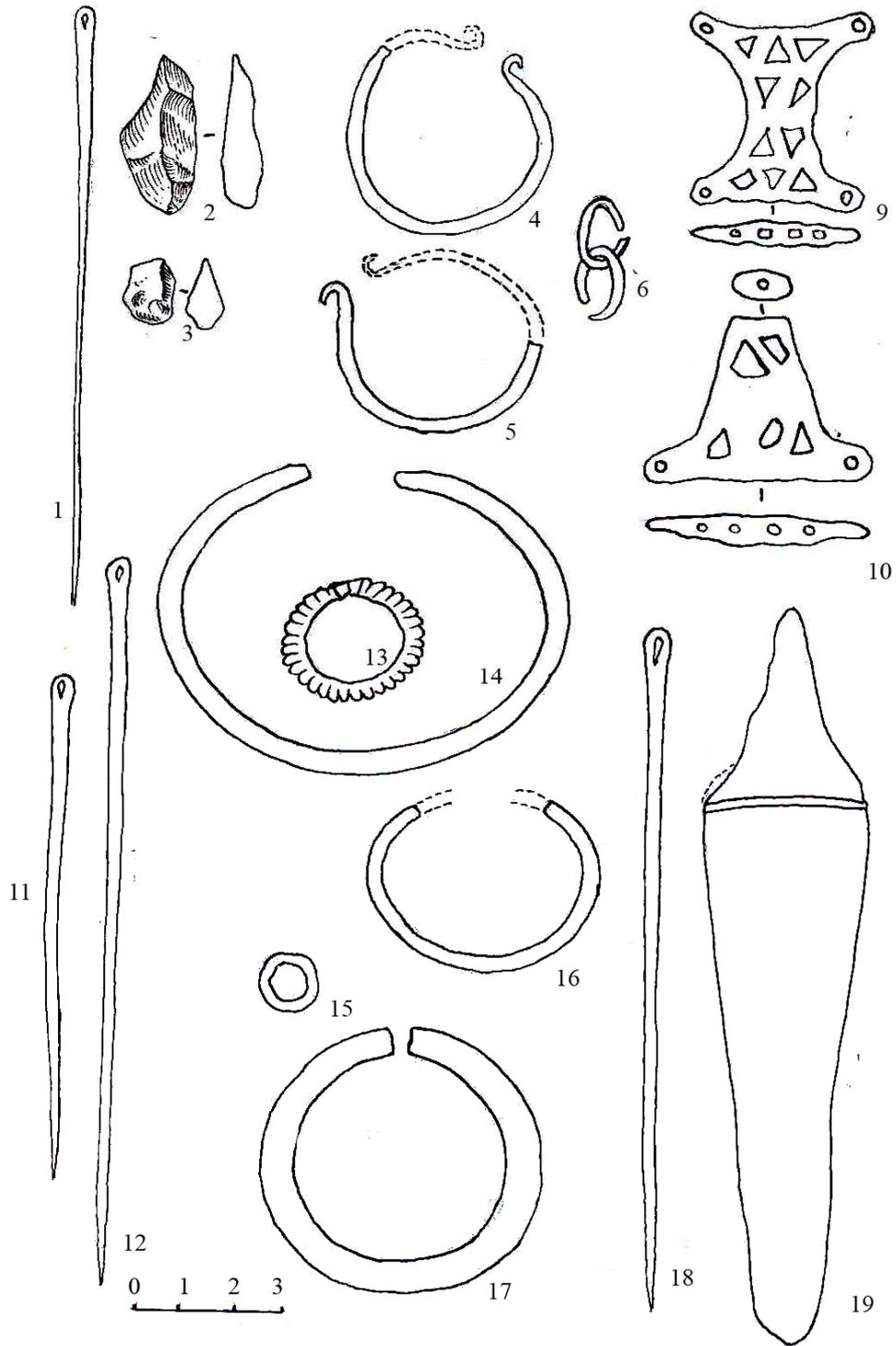


Figure 30 Bronze Objects Grave 40 (1-3) Grave 19 (4-10) Grave 69 (11-14) Grave 82 (15-17) Grave 43 (18-19).

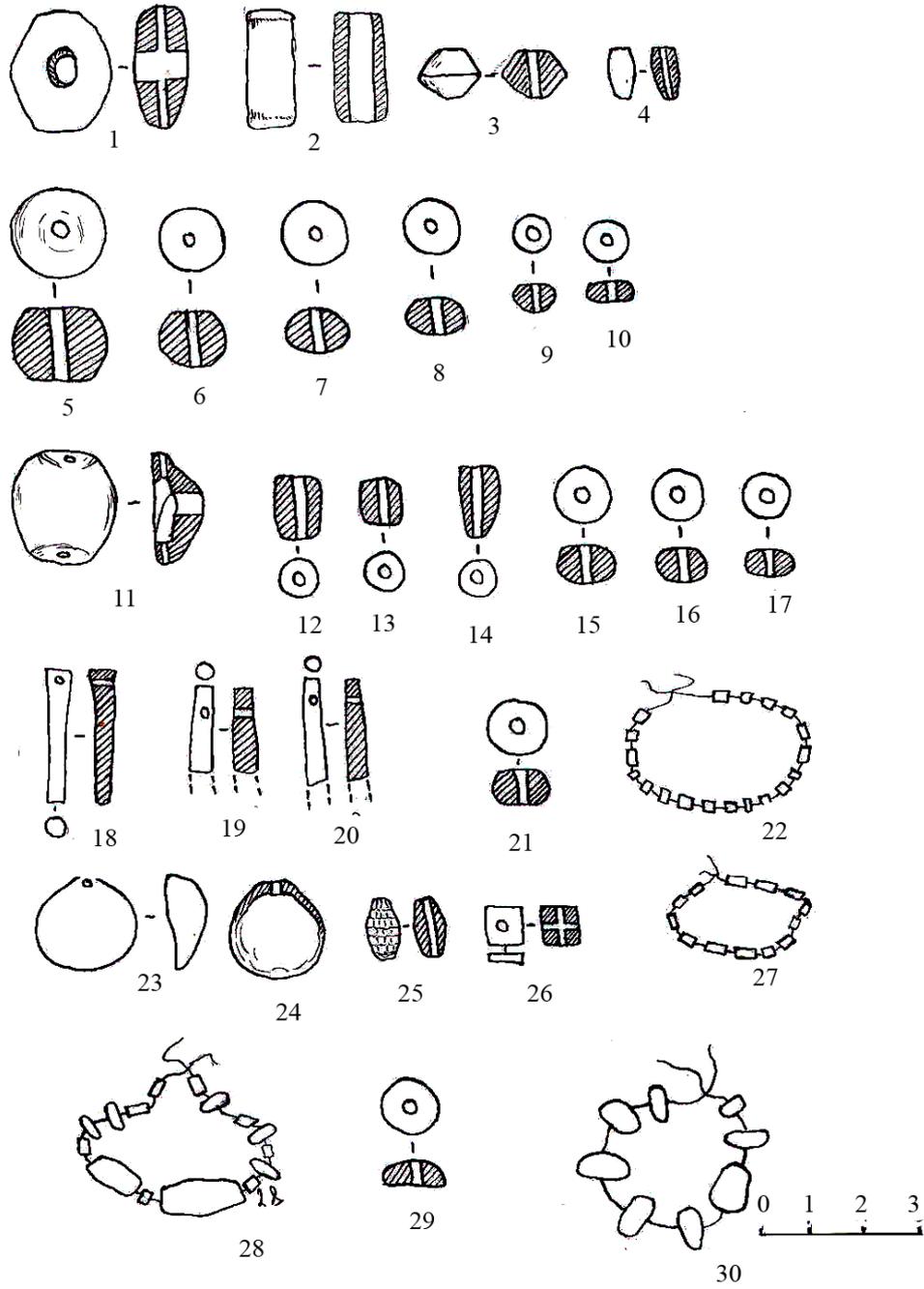


Figure 31 Beads Grave 84 (1-4, 18-20, 29-30) Grave 76 (5-10) Grave 67 (11-17) Grave 69 (20-22) Grave 77 (23-27) Grave 79 (28).

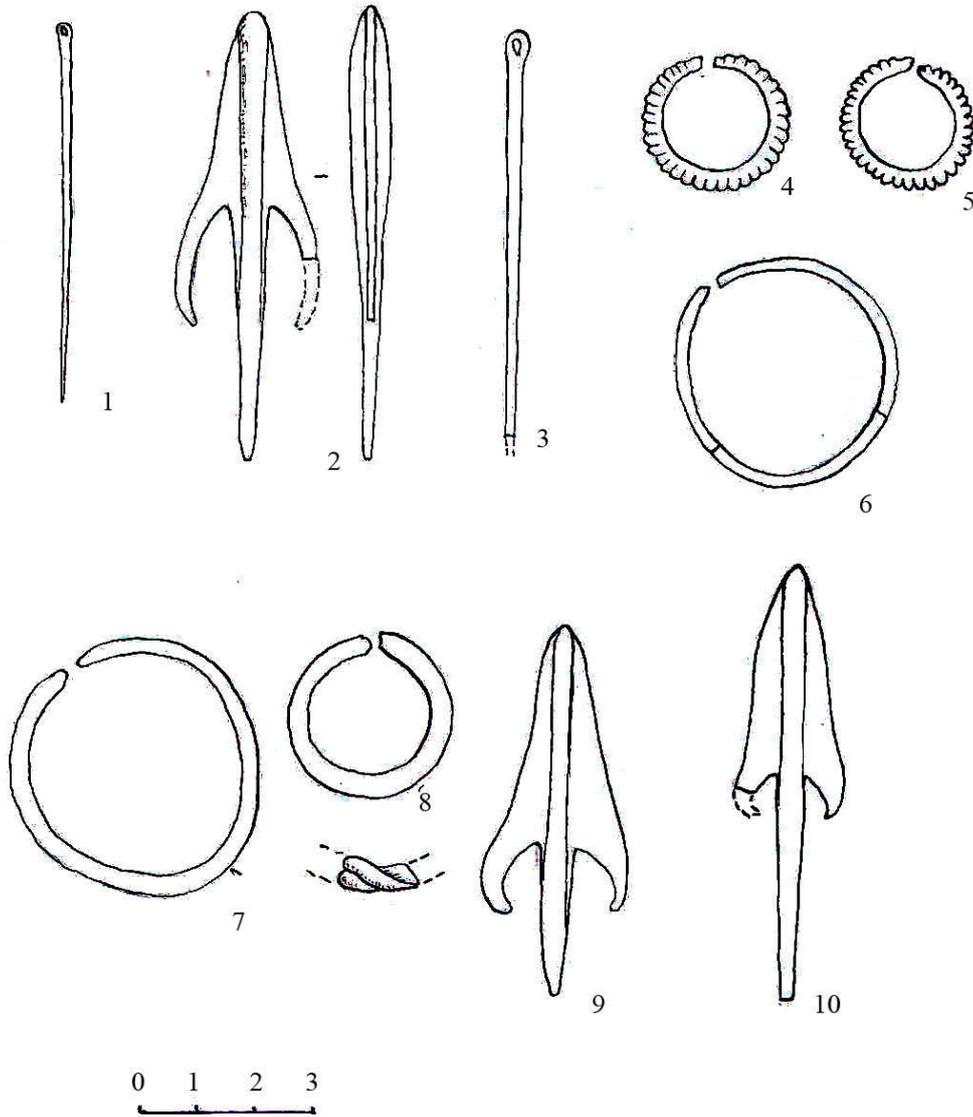


Figure 32 Bronze Ornaments Grave 69 (1 ) Grave 79 (2-3, 7-11) Grave 77 (4-6).

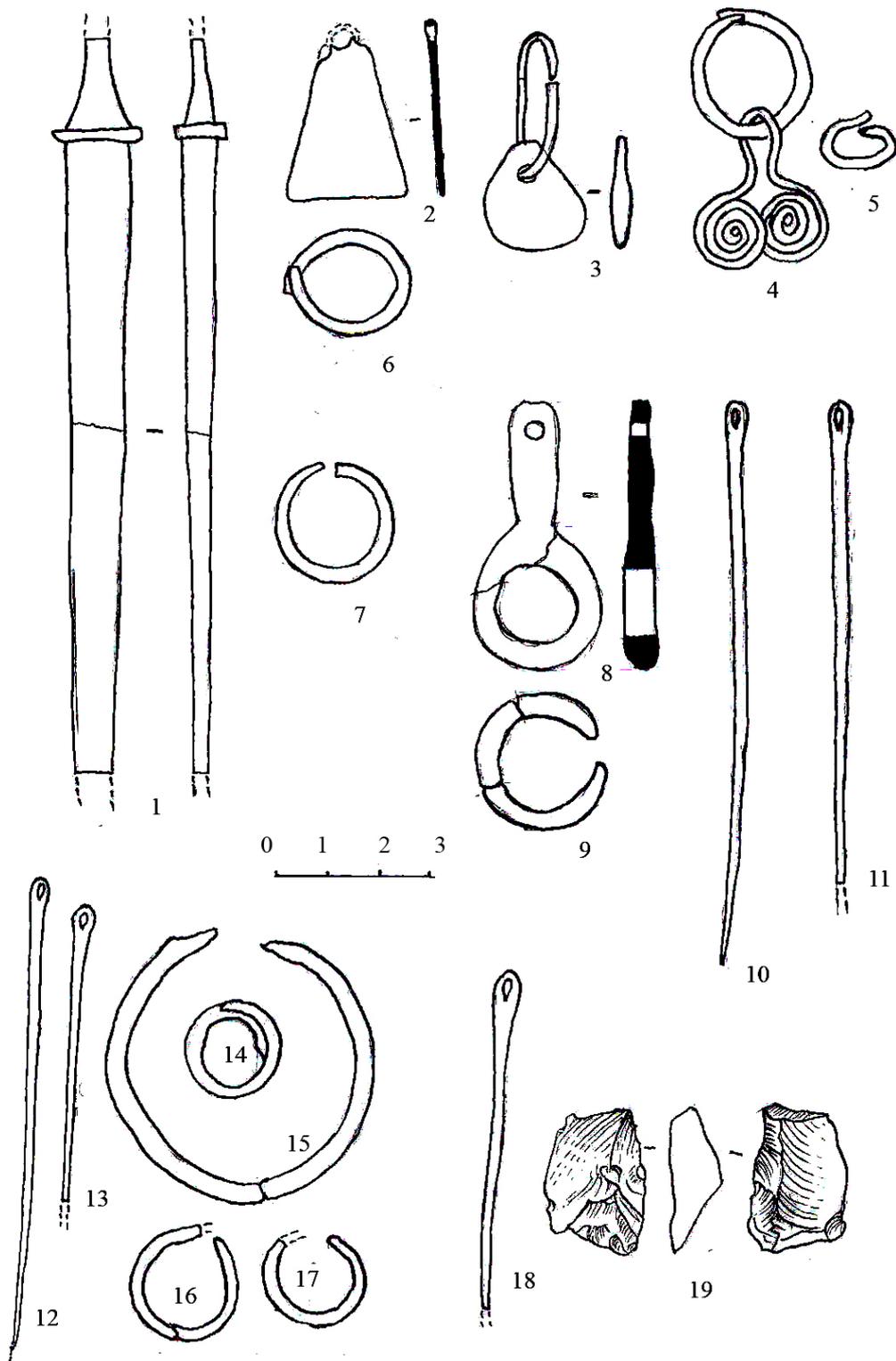


Figure 33 Bronze Ornaments Grave 26 (1) Grave 8 (2-6) Grave 42 (7, 10-11) Grave 30 (8-9) Grave 16 (12-17) Grave 9 (18-19).

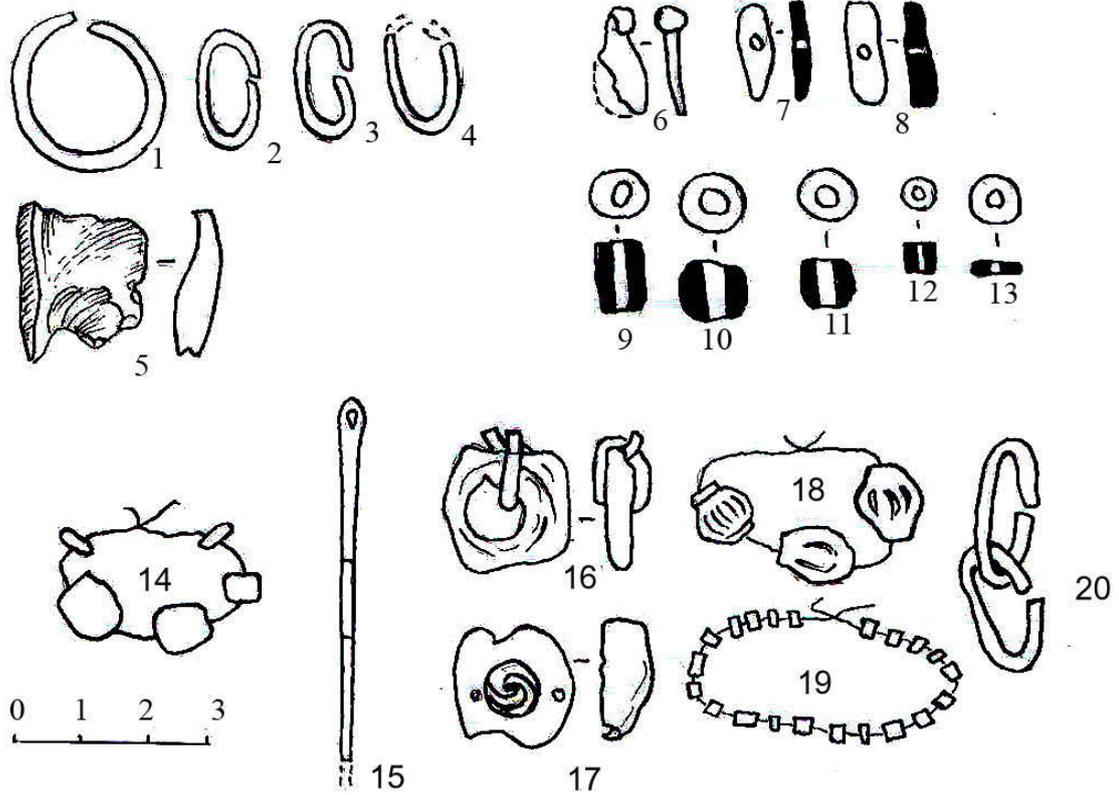


Figure 34 Bronze Ornaments Grave 45 (1-15) Grave 53 (16-20).

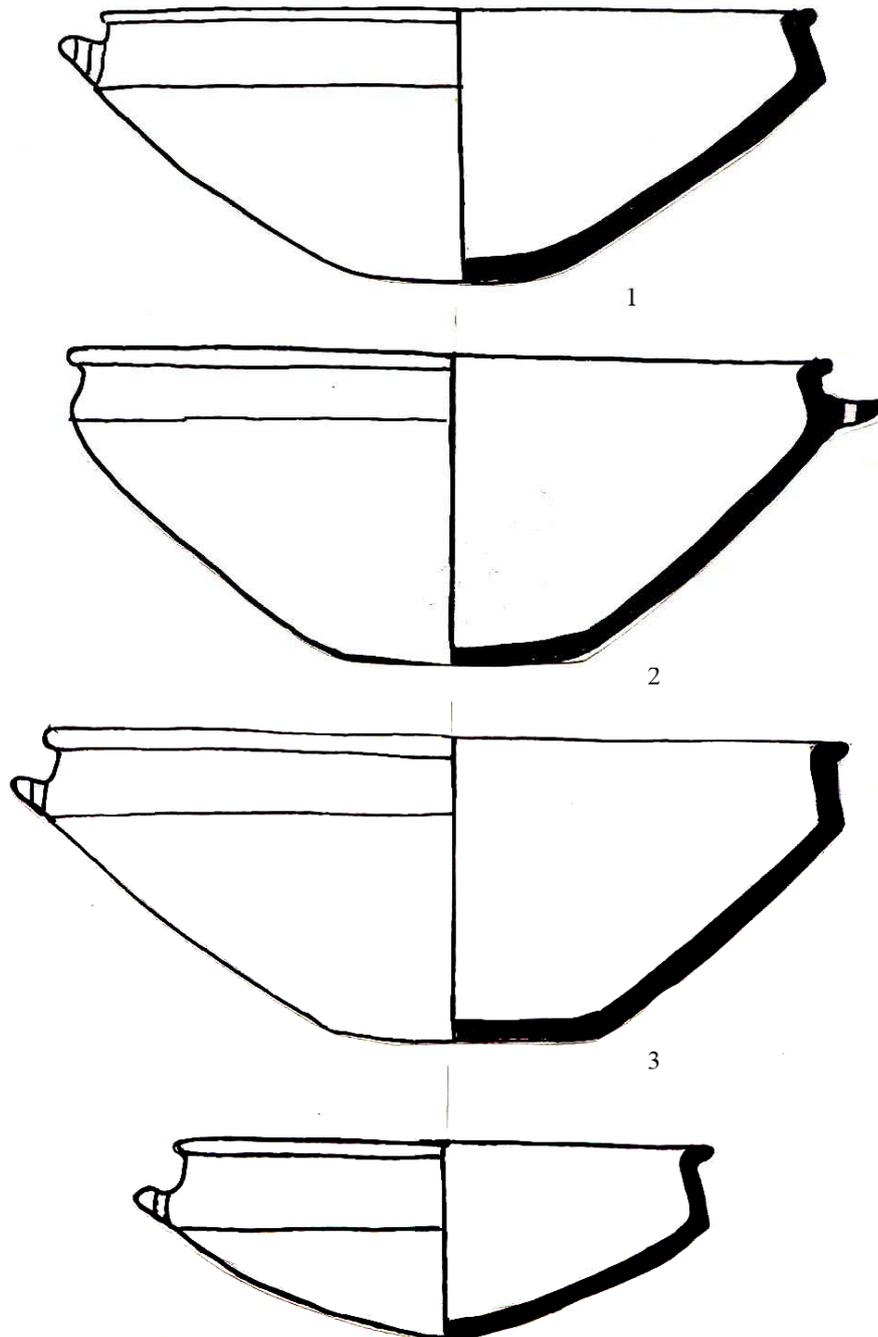
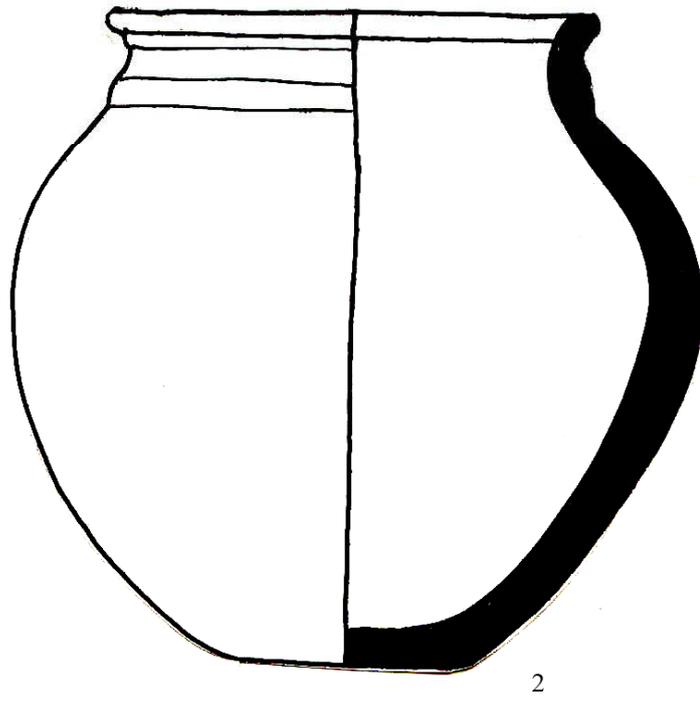
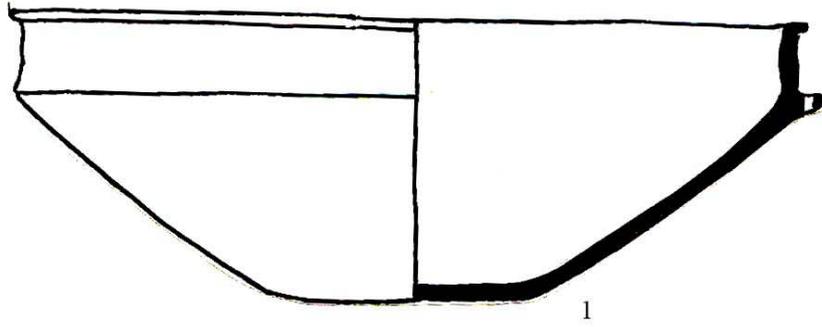


Figure 35 Grave 46 Pottery vessels.



*Figure 36 Grave 46 Pottery vessels.*

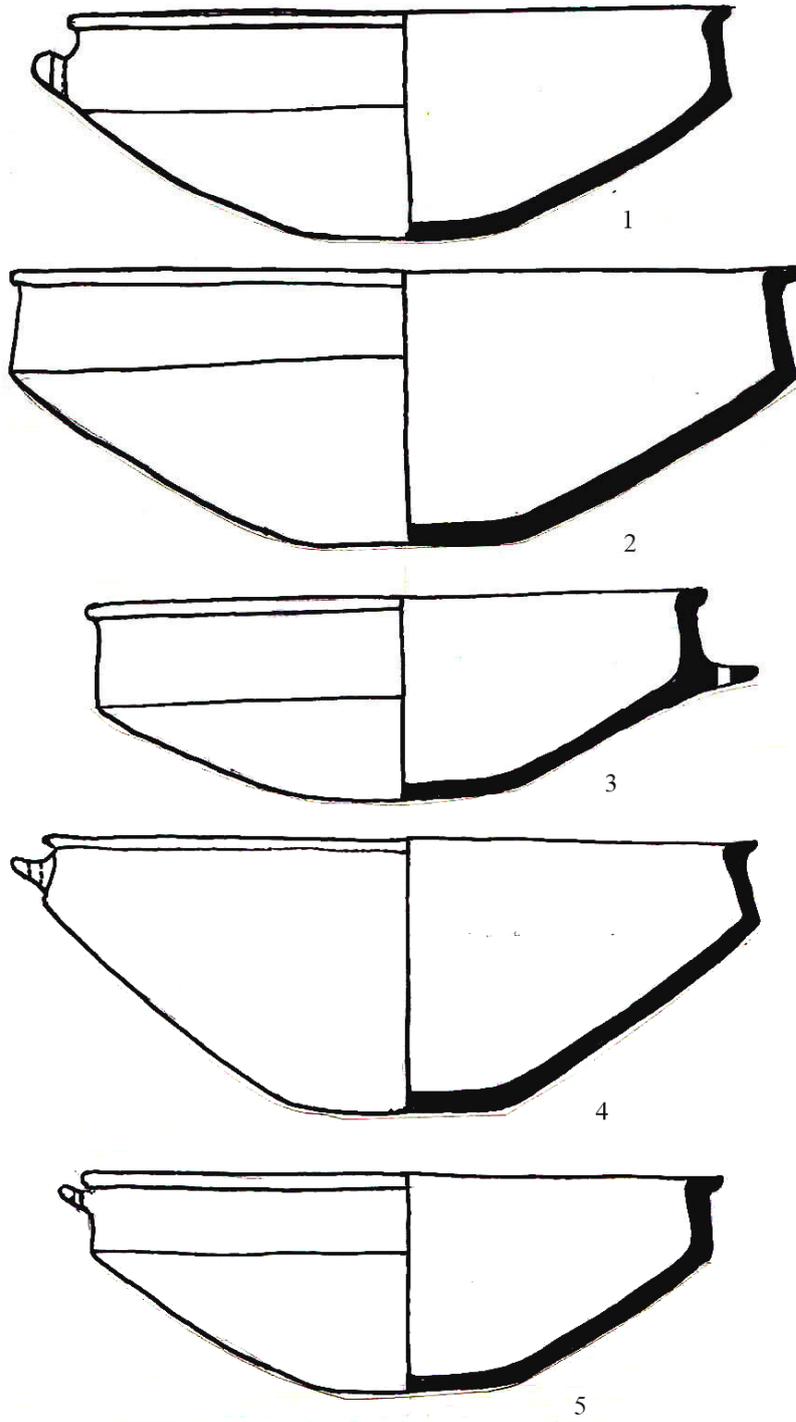


Figure 37 Grave 46 Pottery vessels.

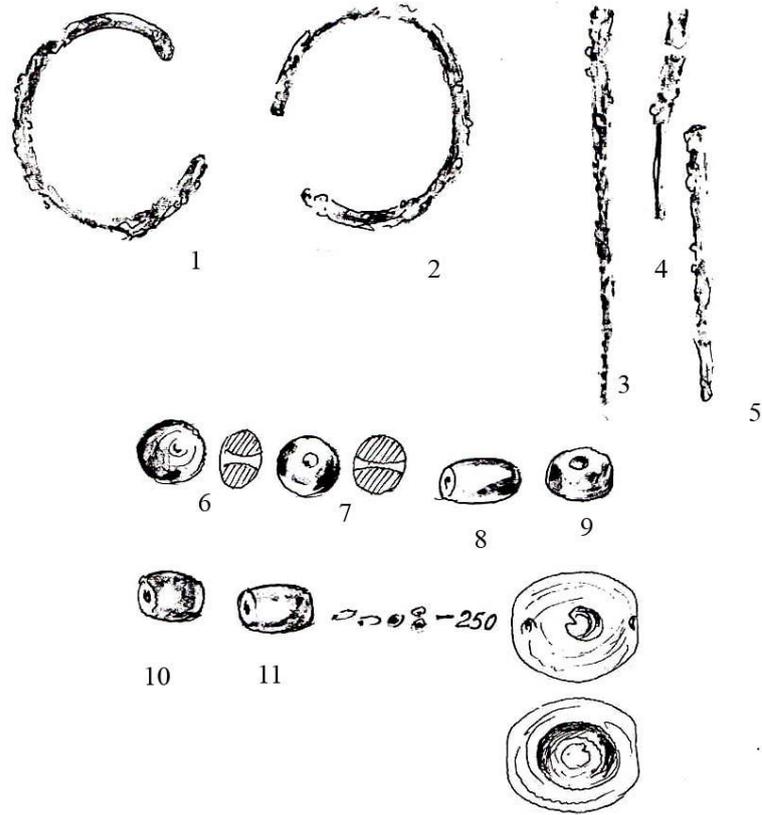


Figure 38 Grave 67 Bronze objects (1-5) Beads (6-12).

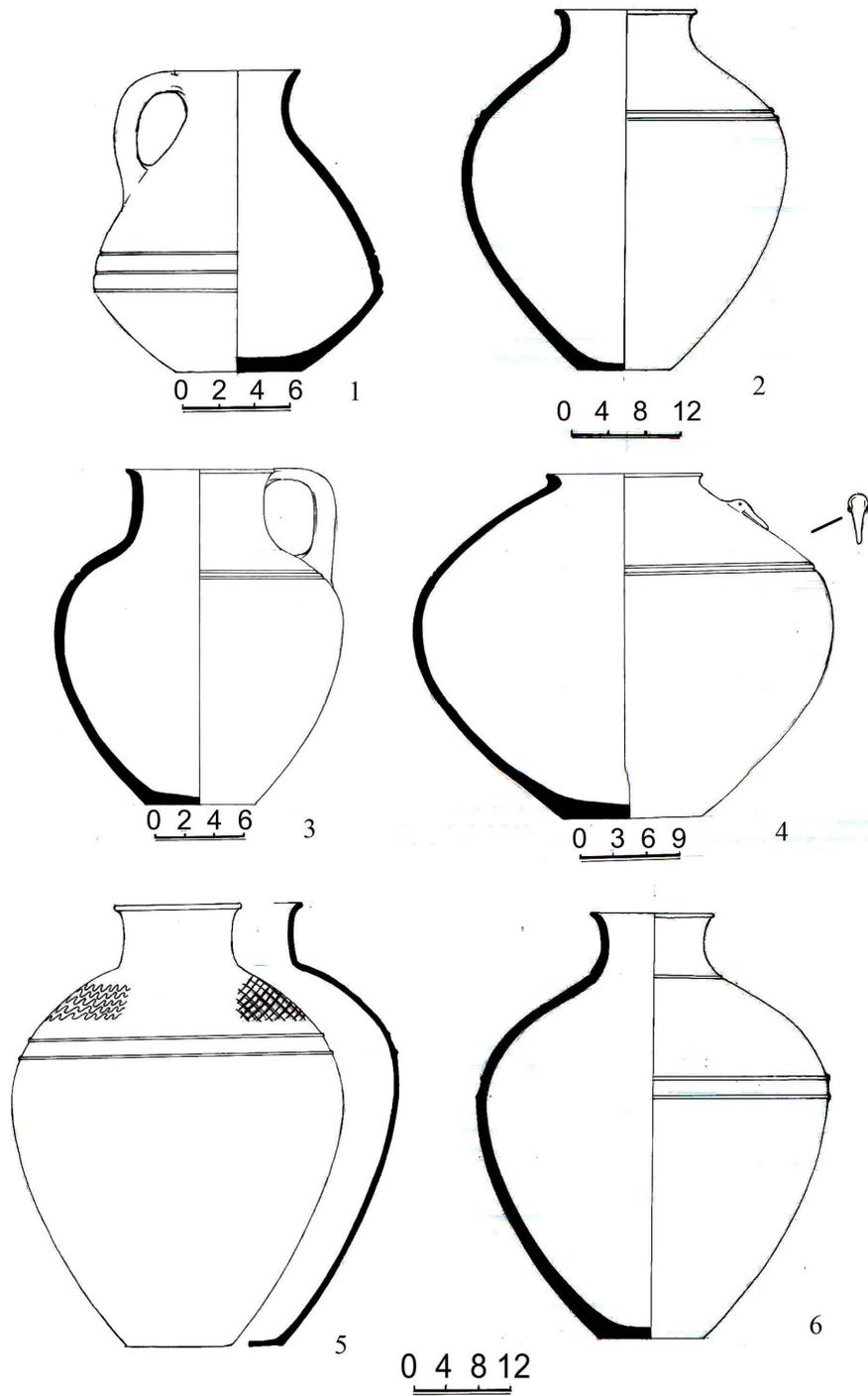


Figure 39 Grave 76 Pottery vessels.

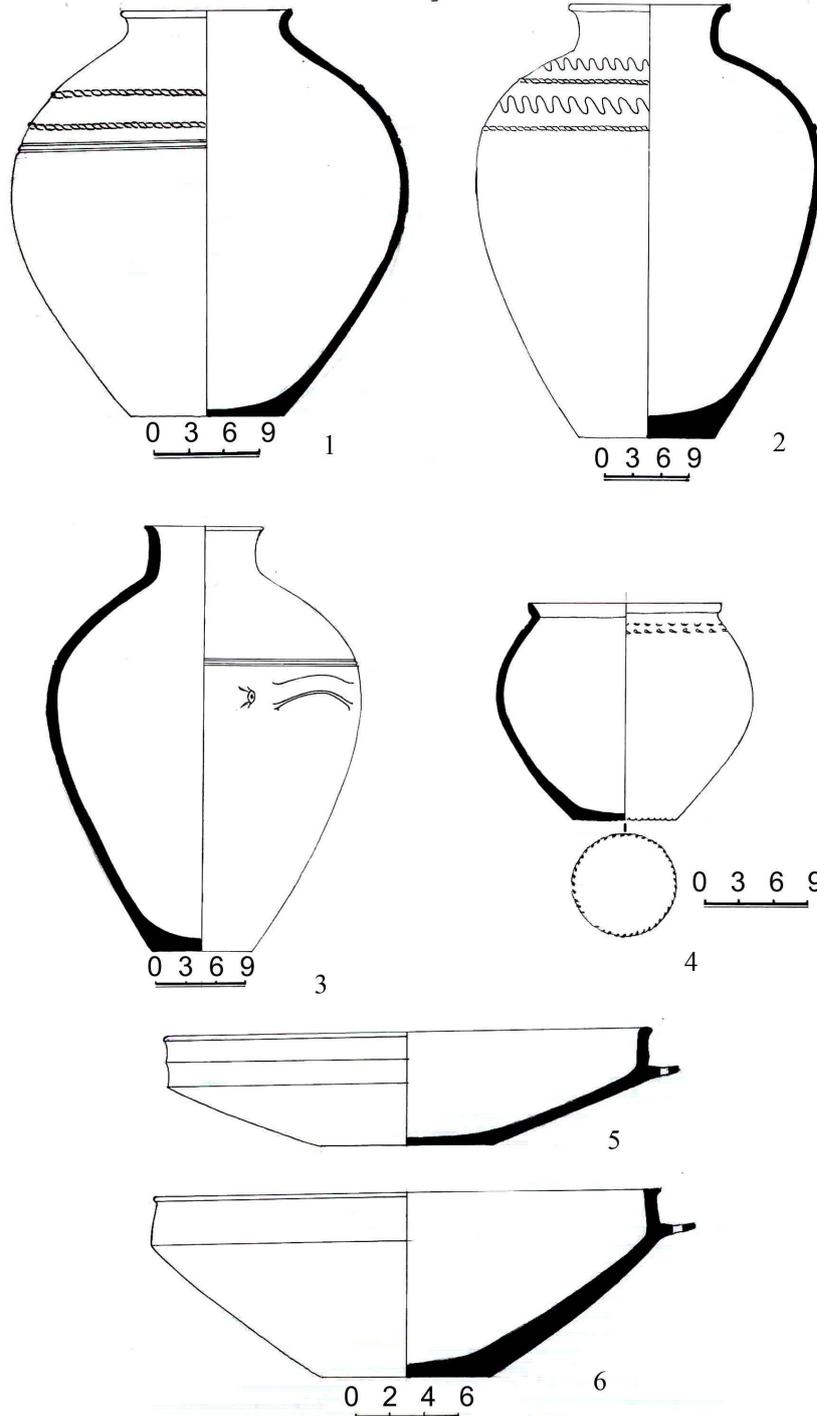


Figure 40 Grave 76 Pottery vessels.

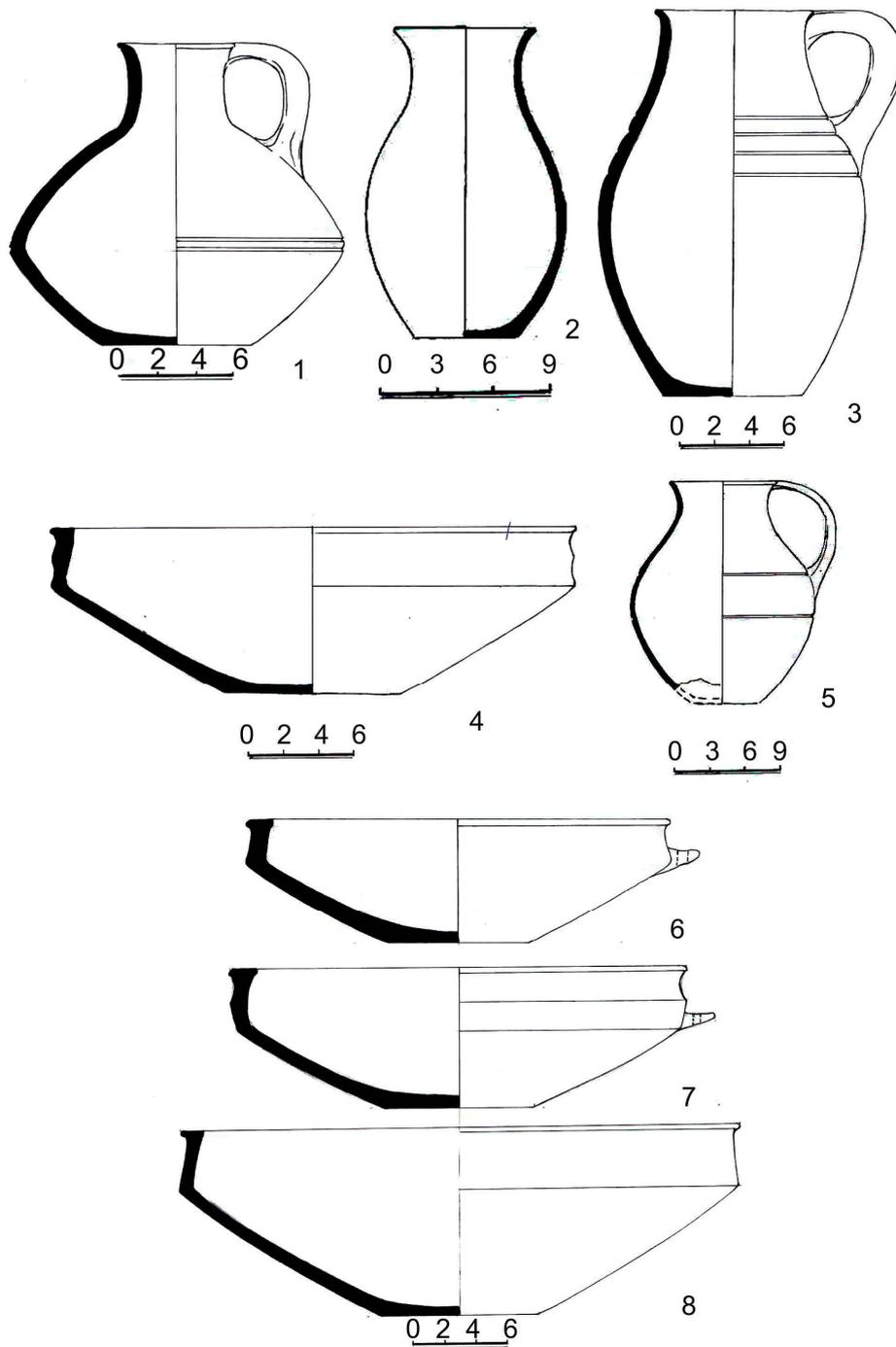


Figure 41 Grave 77 Pottery vessels.

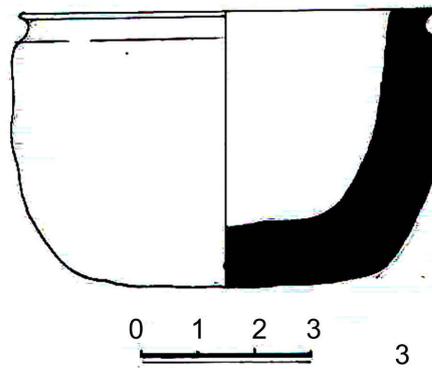
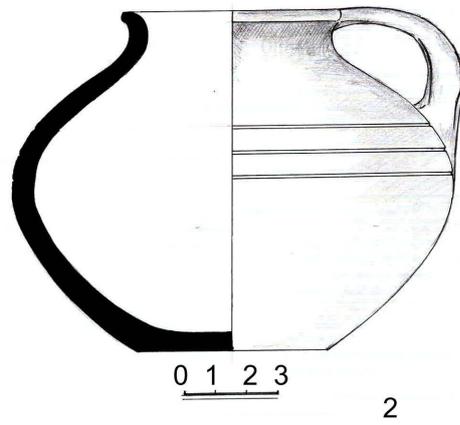
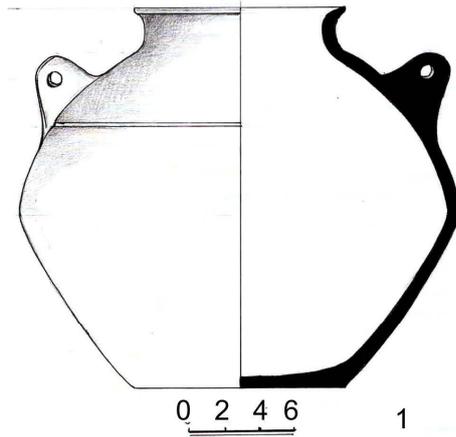


Figure 42 Grave 77 Pottery vessels.

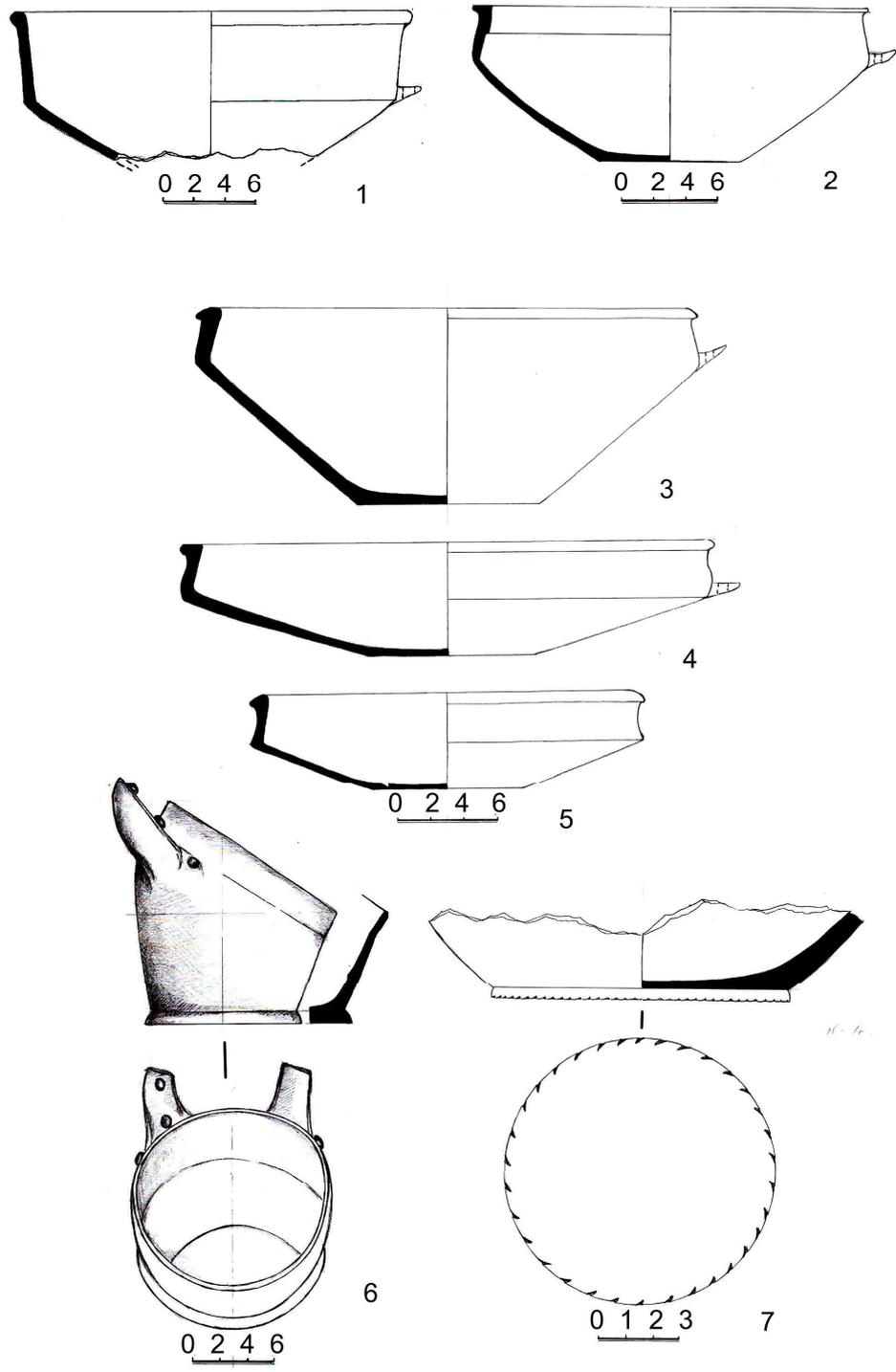


Figure 43 Grave 82 Pottery vessels.

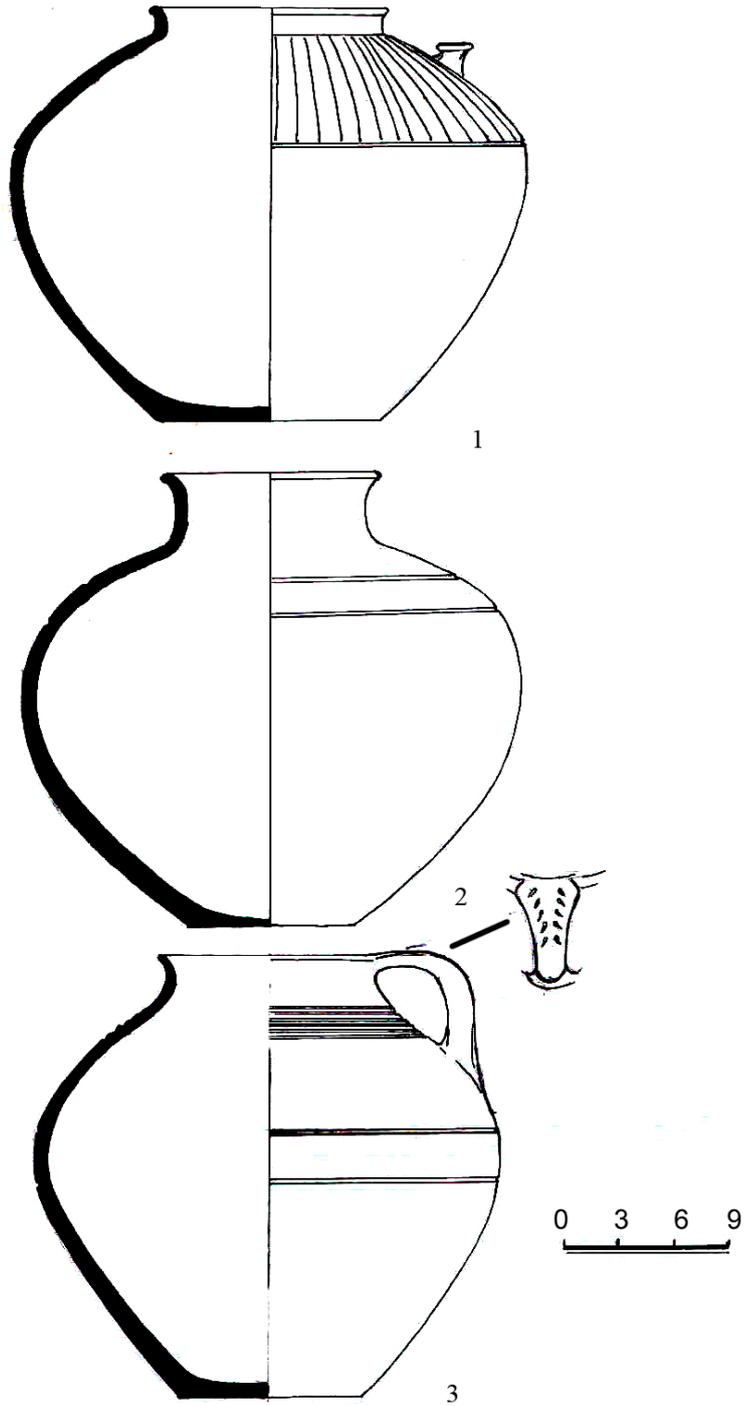


Figure 44 Grave 76 Pottery vessels.

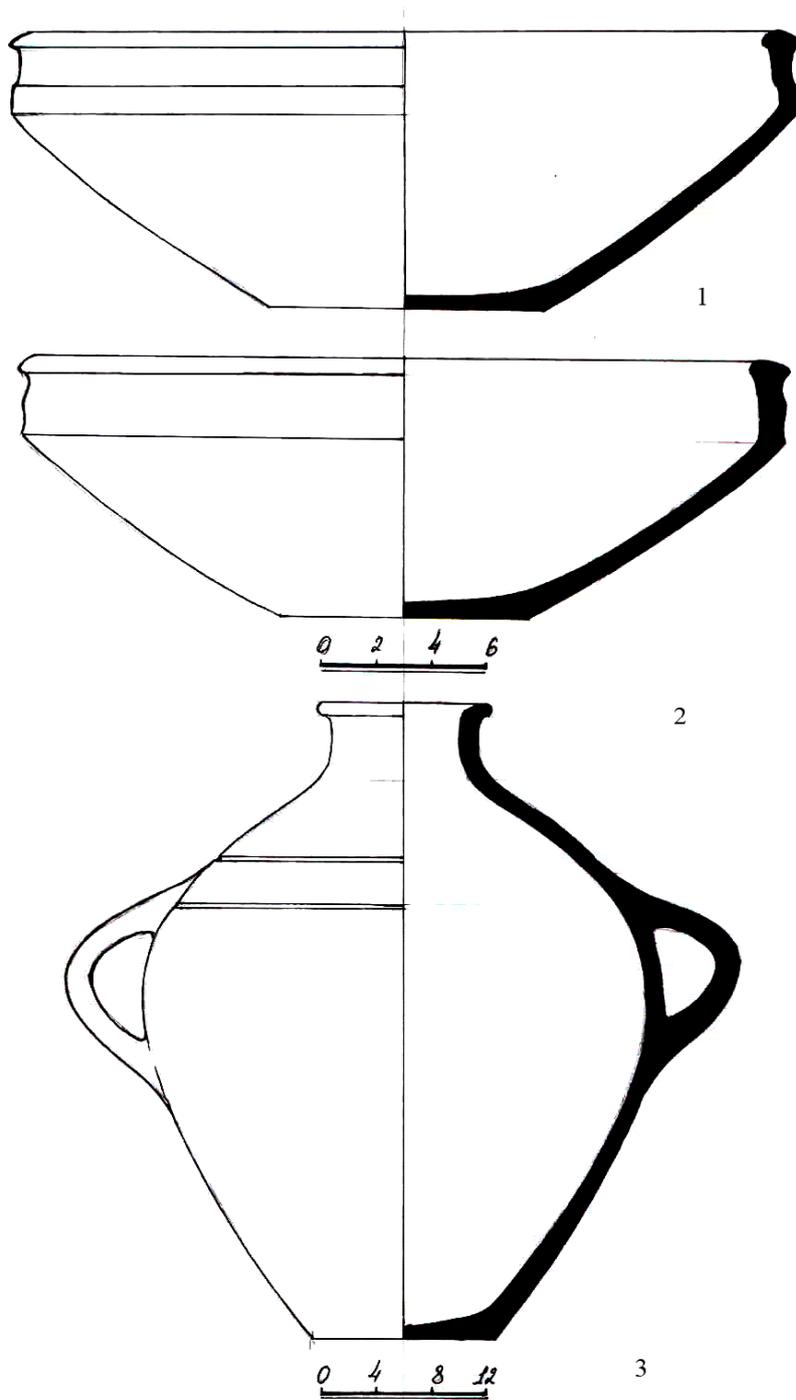
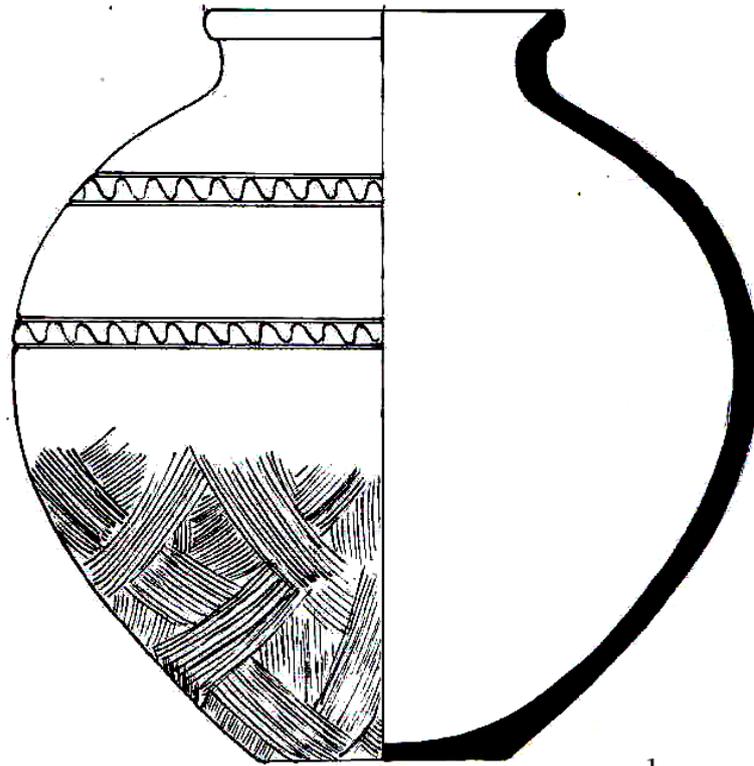
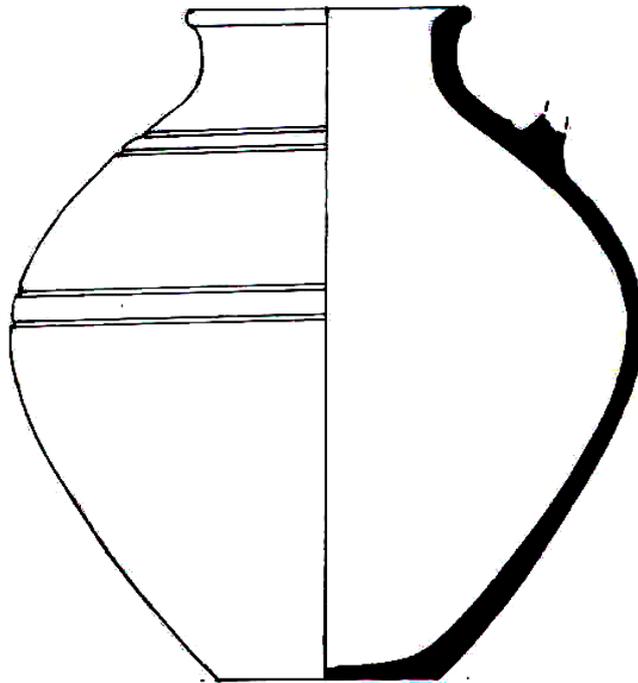


Figure 45 Grave 78 Pottery vessels.



1



2

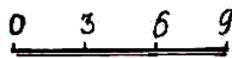


Figure 46 Grave 78 Pottery vessels.

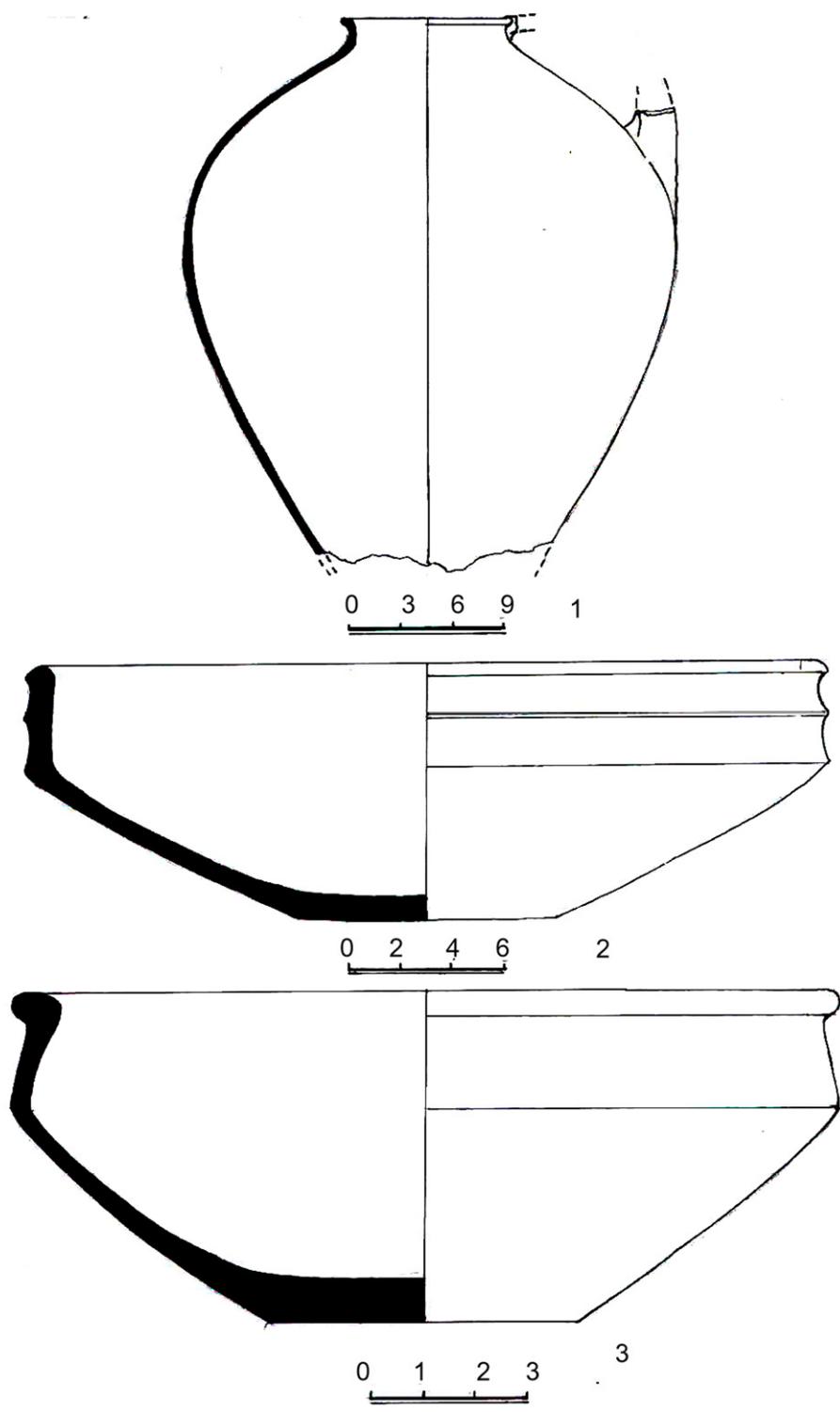


Figure 47 Grave 80 Pottery vessels.

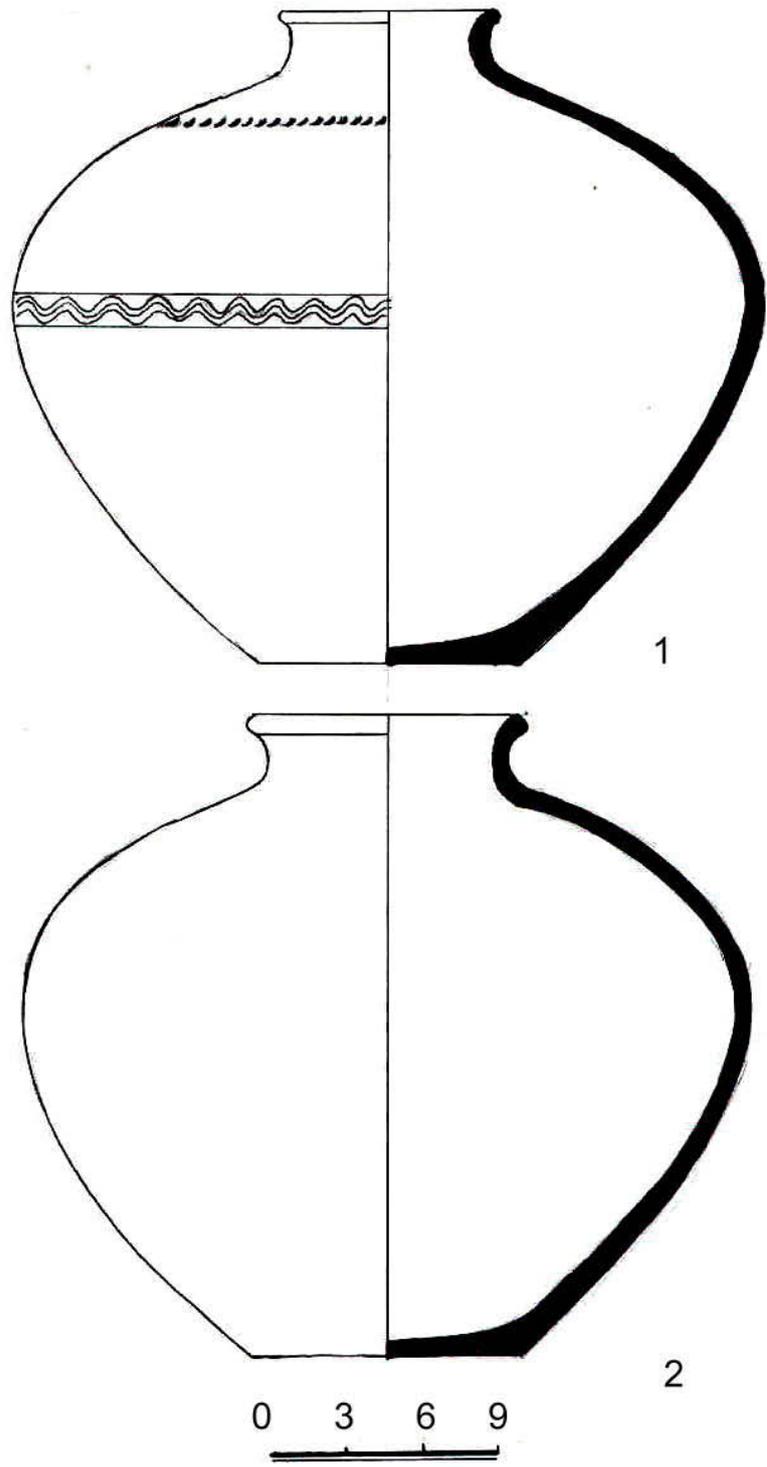


Figure 48 Grave 82 Pottery vessels.

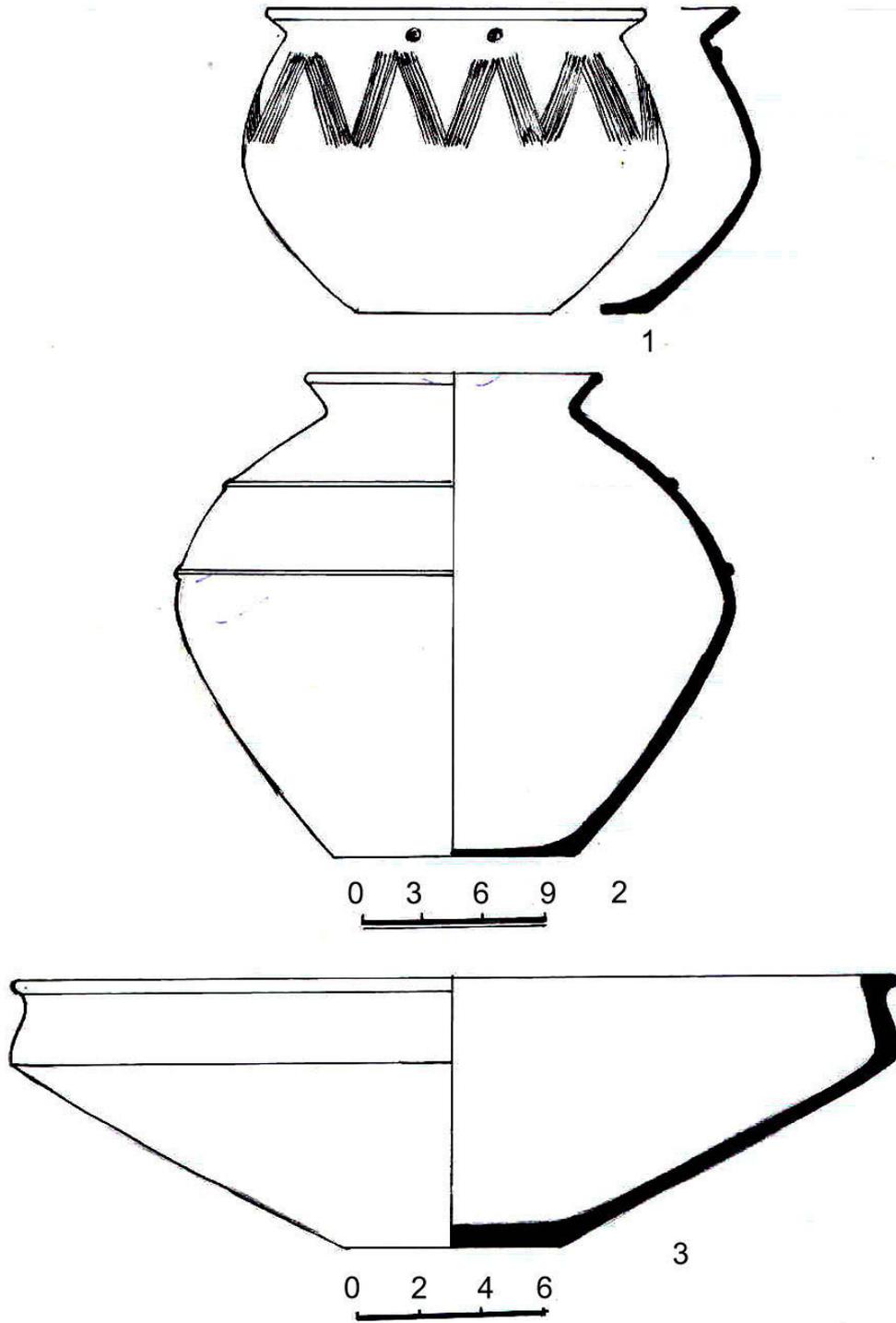


Figure 49 Grave 83 Pottery vessels.

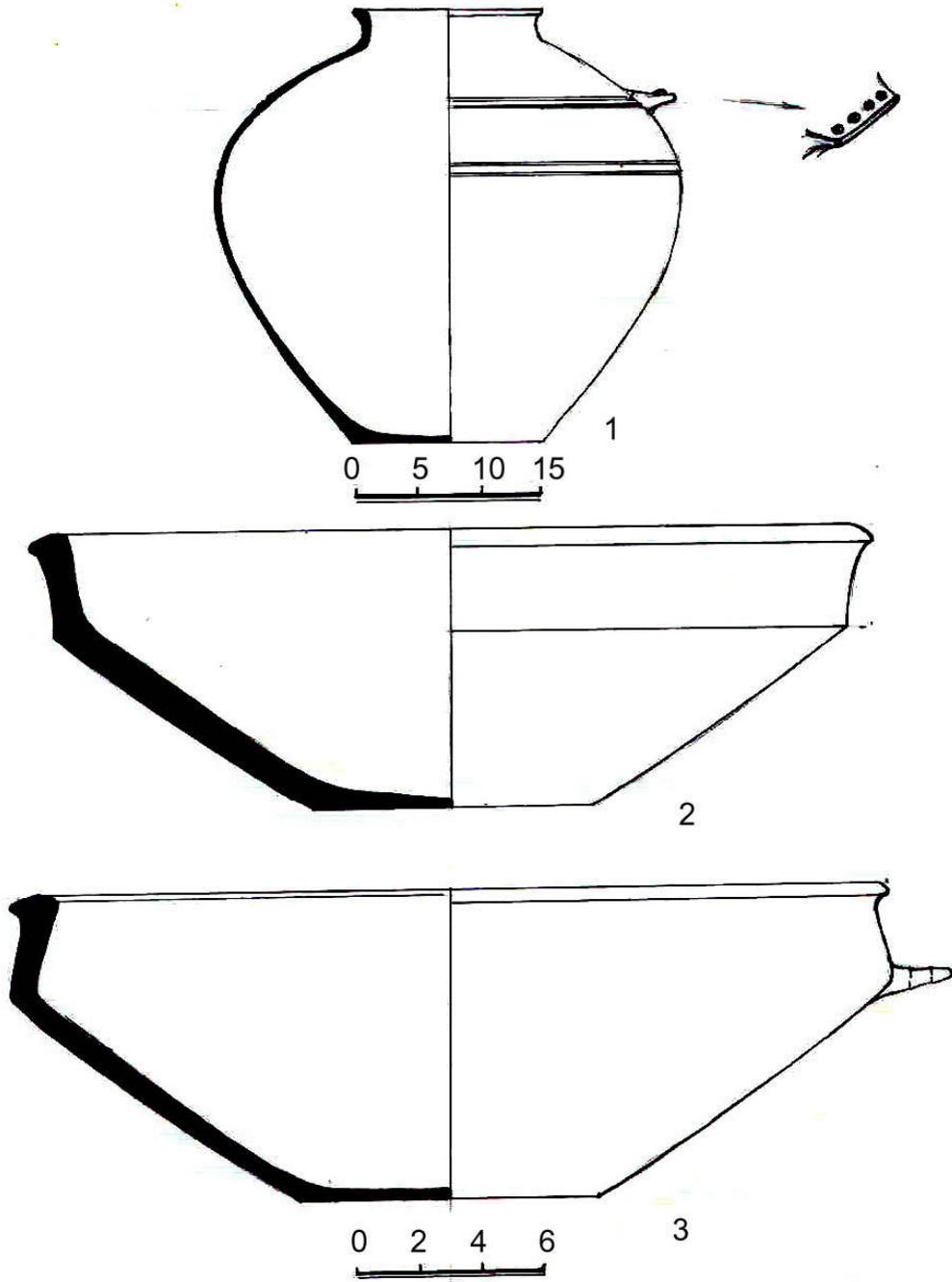


Figure 50 Grave 84 Pottery vessels.

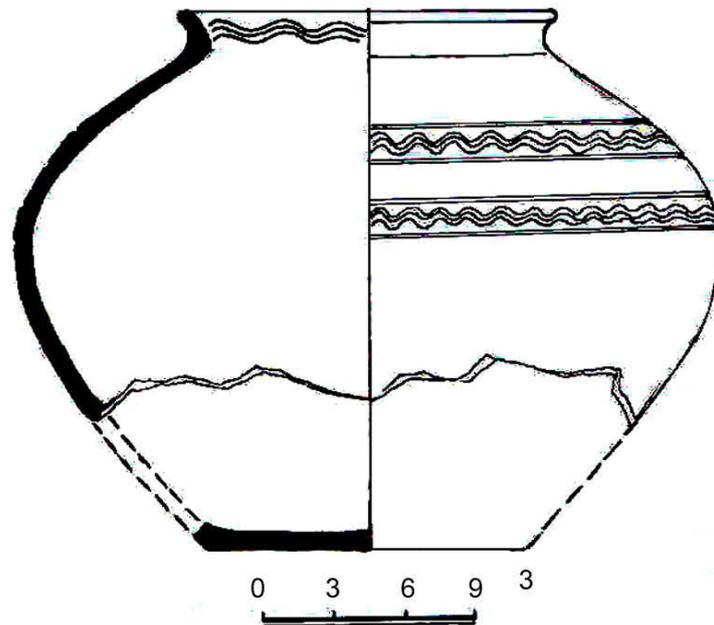
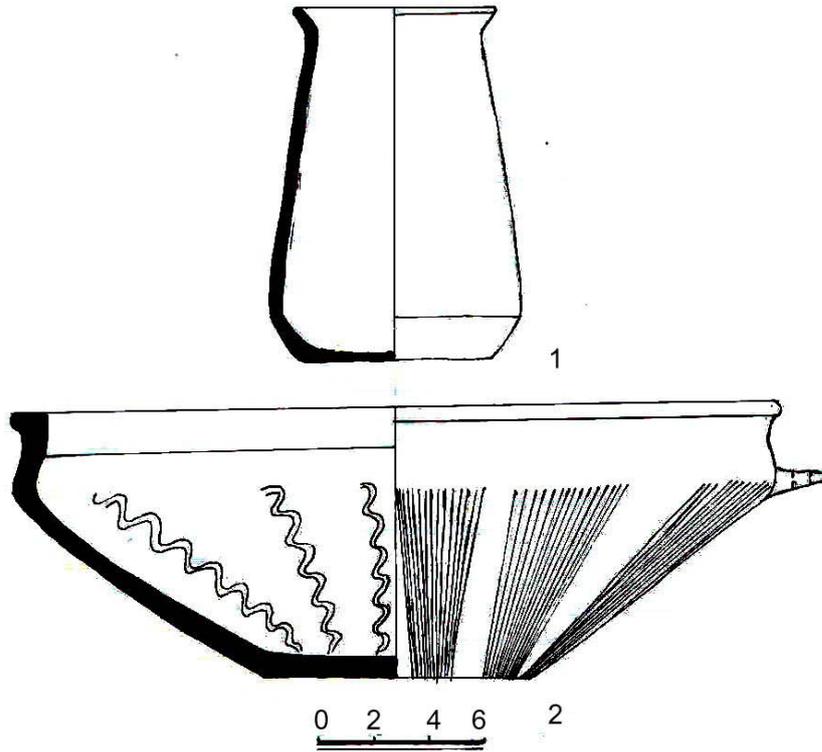


Figure 51 Grave 85 Pottery vessels.

## VII. Inventory of Artefacts

	<b>KP</b>	<b>Type of Site</b>	<b>Material</b>	<b>Find</b>	<b>Grave</b>	<b>Comment</b>
1	378	necropolis	ceramic	jug sherd	2	
2	378	necropolis	ceramic	bowl sherd	2	
3-4.	378	necropolis	ceramic	earring	2	2 pieces
5-13	378	necropolis	ceramic	bead	2	9 pieces
1	378	necropolis	bronze	ring	3	broken into 2 halves
2-8.	378	necropolis	agate	bead	3	7 pieces
9-30	378	necropolis	limestone	bead	3	22 pieces
31	378	necropolis	blue paste	bead	3	
32	378	necropolis	ceramic	bowl sherd	3	
33	378	necropolis	ceramic	bowl sherd	3	
1	378	necropolis	ceramic	jug	4	
2	378	necropolis	ceramic	jug	4	
3	378	necropolis	ceramic	cooking-pot	4	
4	378	necropolis	bronze	pendant	4	
5	378	necropolis	ceramic	bowl	4	
6-9.	378	necropolis	ceramic	ring	4	4 pieces
10	378	necropolis	bronze	bracelet	4	
11-14	378	necropolis	bronze	globular pendant	4	4 pieces
15	378	necropolis	bronze	pendant	4	1 piece
16-27	378	necropolis	bronze	bead	4	12 pieces
1	378	necropolis	ceramic	bowl sherd	5	
2	378	necropolis	ceramic	bowl sherd	5	
3	378	necropolis	ceramic	bowl sherd	5	
4	378	necropolis	ceramic	bowl sherd	5	
5	378	necropolis	ceramic	mug	5	
6	378	necropolis	ceramic	bowl sherd	5	
7	378	necropolis	ceramic	bowl sherd	5	
8	378	necropolis	ceramic	jug sherd	5	
9	378	necropolis	ceramic	jug	5	
10	378	necropolis	ceramic	jug	5	
11	378	necropolis	bronze	ring	5	

## 2004 Excavations

	<b>KP</b>	<b>Type of Site</b>	<b>Material</b>	<b>Find</b>	<b>Grave</b>	<b>Comment</b>
1	378	necropolis	ceramic	jug	16	

2	378	necropolis	ceramic	bardag	16	
3	378	necropolis	ceramic	bardag	16	
4	378	necropolis	ceramic	dopu	16	
5	378	necropolis	ceramic	platter	16	
6	378	necropolis	ceramic	platter	16	
7	378	necropolis	ceramic	platter	16	
8	378	necropolis	ceramic	platter	16	
9	378	necropolis	ceramic	platter	16	
10	378	necropolis	ceramic	platter	16	
11	378	necropolis	ceramic	platter	16	
12	378	necropolis	ceramic	platter	16	
13	378	necropolis	ceramic	platter	16	
14	378	necropolis	ceramic	platter	16	
15	378	necropolis	ceramic	platter	16	
16	378	necropolis	ceramic	jug	16	
17	378	necropolis	ceramic	platter	16	
18	378	necropolis	ceramic	platter	16	
19	378	necropolis	ceramic	platter	16	
20	378	necropolis	ceramic	platter	16	
21	378	necropolis	bronze	awl	16	
22	378	necropolis	bronze	spearhead	16	
23	378	necropolis	iron	dagger tip	16	
24	378	necropolis	bronze	needle	16	
25	378	necropolis	bronze	bracelet	16	
26	378	necropolis	bronze	ring	16	
27	378	necropolis	bronze	ring	16	
28	378	necropolis	bronze	ring	16	
29	378	necropolis	ceramic	jug	17	
30	378	necropolis	ceramic	platter	17	
31	378	necropolis	ceramic	jug	17	
32	378	necropolis	ceramic	jug	18	
33	378	necropolis	ceramic	jug	18	
34	378	necropolis	ceramic	bardag	18	
35	378	necropolis	ceramic	platter	18	
36	378	necropolis	ceramic	platter	18	
37	378	necropolis	ceramic	jug	19	
38	378	necropolis	ceramic	jug	19	
39	378	necropolis	ceramic	bardag	19	
40	378	necropolis	ceramic	platter	19	
41	378	necropolis	ceramic	platter	19	
42	378	necropolis	ceramic	platter	19	2 pieces
43	378	necropolis	bronze	pendant	19	
44	378	necropolis	bronze	pendant	19	8 pieces
45	378	necropolis	bronze	pendant	19	2 pieces
46	378	necropolis	bronze	pendant	19	1 piece
47	378	necropolis	bronze	earring	19	2 pieces

48	378	necropolis	bronze	earring	19	2 pieces
49	378	necropolis	bronze	needle	19	2 pieces
50	378	necropolis	bronze	bracelet	19	2 pieces
51	378	necropolis	agate	beads	19	655 pieces
52	378	necropolis	agate	beads	19	21 pieces
53	378	necropolis	agate	beads	19	45dæd
54	378	necropolis	agate	beads	19	1 piece
55	378	necropolis	agate	beads	19	15 pieces
56	378	necropolis	paste	beads	19	1 piece
57	378	necropolis	paste	beads	19	4 pieces
58	378	necropolis	paste	beads	19	3 pieces
59	378	necropolis	paste	jewellery	19	
60	378	necropolis	bronze	object	19	
61	378	necropolis	bronze	object	19	
62	378	necropolis	ceramic	jug	20	
63	378	necropolis	ceramic	jug	20	
64	378	necropolis	ceramic	jug	20	
65	378	necropolis	ceramic	dopu	20	
66	378	necropolis	ceramic	platter	20	
67	378	necropolis	ceramic	jug	21	
68	378	necropolis	ceramic	platter	21	
69	378	necropolis	agate	beads	21	14 pieces
70	378	necropolis	paste	beads	21	505 pieces
71	378	necropolis	paste	beads	21	71 pieces
72	378	necropolis	ceramic	jug	22	
73	378	necropolis	ceramic	platter	23	
74	378	necropolis	ceramic	butter churn	24	
75	378	necropolis	ceramic	jug	25	
76	378	necropolis	ceramic	jug	25	
77	378	necropolis	ceramic	jug	25	
78	378	necropolis	ceramic	platter	25	
79	378	necropolis	ceramic	platter	25	
80	378	necropolis	ceramic	platter	25	
81	378	necropolis	ceramic	platter	25	
82	378	necropolis	ceramic	platter	25	
83	378	necropolis	agate	beads	25	50 pieces
84	378	necropolis	paste	beads	25	33 pieces
85	378	necropolis	ceramic	jug	26	
86	378	necropolis	ceramic	jug	26	
87	378	necropolis	ceramic	jug	26	
88	378	necropolis	ceramic	jug	26	
89	378	necropolis	ceramic	platter	26	
90	378	necropolis	ceramic	platter	26	
91	378	necropolis	ceramic	platter	26	
92	378	necropolis	ceramic	platter	26	
93	378	necropolis	ceramic	platter	26	

94	378	necropolis	ceramic	jug	26	
95	378	necropolis	ceramic	jug	26	
96	378	necropolis	ceramic	platter	27	
97	378	necropolis	ceramic	platter	27	
98	378	necropolis	ceramic	platter	27	
99	378	necropolis	ceramic	platter	27	
100	378	necropolis	ceramic	jug	28	
101	378	necropolis	ceramic	jug	28	
102	378	necropolis	ceramic	platter	28	
103	378	necropolis	ceramic	platter	28	
104	378	necropolis	ceramic	platter	28	
105	378	necropolis	ceramic	platter	28	
106	378	necropolis	ceramic	platter	28	
107	378	necropolis	bronze	necklace	28	
108	378	necropolis	bronze	bracelet	28	
109	378	necropolis	bronze	bracelet	28	
110	378	necropolis	agate	beads	28	331 pieces
111	378	necropolis	agate	beads	28	7 pieces
112	378	necropolis	paste	beads	28	2 pieces
113	378	necropolis	ceramic	jug	29	
114	378	necropolis	ceramic	jug	29	
115	378	necropolis	ceramic	jug	29	
116	378	necropolis	ceramic	platter	29	
117	378	necropolis	ceramic	jug	30	
118	378	necropolis	ceramic	jug	30	
119	378	necropolis	ceramic	jug	30	
120	378	necropolis	ceramic	platter	30	
121	378	necropolis	ceramic	platter	30	
122	378	necropolis	ceramic	platter	30	
123	378	necropolis	ceramic	platter	30	
124	378	necropolis	ceramic	platter	30	
125	378	necropolis	bronze	dagger tip	30	
126	378	necropolis	bronze	ring	26	
127	378	necropolis	agate	beads	26	6 pieces
128	378	necropolis	agate	beads	26	3 pieces
129	378	necropolis	bronze	bracelet	26	
130	378	necropolis	bronze	needle	26	
131	378	necropolis	bronze	needle	21	
132	378	necropolis	bronze	slab	21	
133	378	necropolis	bronze	bracelet	25	3 pieces
134	378	necropolis	bronze	awl	25	
135	378	necropolis	ceramic	bardag	31	
136	378	necropolis	ceramic	jug	31	
137	378	necropolis	ceramic	jug	31	
138	378	necropolis	ceramic	jug	31	
139	378	necropolis	ceramic	jug	31	

140	378	necropolis	ceramic	platter	31	
141	378	necropolis	ceramic	platter	31	
142	378	necropolis	ceramic	platter	31	
143	378	necropolis	ceramic	platter	31	
144	378	necropolis	ceramic	platter	31	
145	378	necropolis	ceramic	platter	31	
146	378	necropolis	ceramic	platter	31	
147	378	necropolis	ceramic	platter	31	
148	378	necropolis	ceramic	platter	31	
149	378	necropolis	ceramic	platter	31	
150	378	necropolis	ceramic	platter	31	
151	378	necropolis	ceramic	jug	14	
152	378	necropolis	ceramic	jug	14	
153	378	necropolis	ceramic	jug	14	
154	378	necropolis	ceramic	platter	14	
155	378	necropolis	ceramic	platter	14	
156	378	necropolis	ceramic	platter	14	
157	378	necropolis	ceramic	jug	15	
158	378	necropolis	ceramic	platter	15	
159	378	necropolis	ceramic	platter	15	
160	378	necropolis	ceramic	platter	15	
161	378	necropolis	ceramic	object	32	
162	378	necropolis	ceramic	platter	32	
163	378	necropolis	ceramic	plate	32	
164	378	necropolis	ceramic	jug	32	
165	378	necropolis	ceramic	plate	32	
166	378	necropolis	ceramic	plate	32	
167	378	necropolis	ceramic	plate	32	
168	378	necropolis	ceramic	plate	32	
169	378	necropolis	ceramic	plate	32	
170	378	necropolis	ceramic	bardag	32	
171	378	necropolis	ceramic	bardag	33	
172	378	necropolis	ceramic	plate	33	
173	378	necropolis	ceramic	jug	36	
174	378	necropolis	ceramic	plate	36	
175	378	necropolis	ceramic	plate	36	
176	378	necropolis	ceramic	jug	36	
177	378	necropolis	ceramic	jug	36	
178	378	necropolis	ceramic	plate	36	
179	378	necropolis	metal	ring	36	
180	378	necropolis	paste	beads	36	
181	378	necropolis	ceramic	jug	35	
182	378	necropolis	ceramic	jug	35	
183	378	necropolis	ceramic	bardag	35	
184	378	necropolis	ceramic	plate	35	
185	378	necropolis	ceramic	jug	35	

186	378	necropolis	ceramic	plate	35	
187	378	necropolis	ceramic	plate	35	
188	378	necropolis	ceramic	plate	35	
189	378	necropolis	ceramic	jug	35	fragmentary
190	378	necropolis	bronze	needle	35	
191	378	necropolis	ceramic	jar	35	
192	378	necropolis	ceramic	jug	35	
193	378	necropolis	ceramic	jug	34	
194	378	necropolis	ceramic	bowl	34	
195	378	necropolis	ceramic	jug	34	
196	378	necropolis	ceramic	dopu	34	
197	378	necropolis	ceramic	bowl	34	
198	378	necropolis	ceramic	bardag	34	
199	378	necropolis	ceramic	jug	37	
200	378	necropolis	ceramic	bowl	37	
201	378	necropolis	ceramic	jug	37	
202	378	necropolis	ceramic	jug	38	
203	378	necropolis	ceramic	jug	38	
204	378	necropolis	ceramic	jug	38	
205	378	necropolis	ceramic	dopu	38	
206	378	necropolis	ceramic	jug	38	
207	378	necropolis	ceramic	platter	38	
208	378	necropolis	ceramic	platter	38	
209	378	necropolis	ceramic	platter	38	
210	378	necropolis	ceramic	platter	38	
211	378	necropolis	bronze	needle	38	
212	378	necropolis	bronze	bracelet	38	
213	378	necropolis	metal	earring	38	
214	378	necropolis	agate	beads	38	16 pieces
215	378	necropolis	ceramic	jug	39	
216	378	necropolis	ceramic	platter	39	
217	378	necropolis	ceramic	platter	39	
218	378	necropolis	ceramic	cup	39	
219	378	necropolis	ceramic	jug	39	
220	378	necropolis	ceramic	bardag	39	
221	378	necropolis	ceramic	platter	39	
222	378	necropolis	bronze	needle	39	
223	378	necropolis	bronze	ring	39	
224	378	necropolis	ceramic	jug	40	
225	378	necropolis	ceramic	jug	40	
226	378	necropolis	ceramic	platter	40	
227	378	necropolis	ceramic	platter	40	
228	378	necropolis	ceramic	platter	40	
229	378	necropolis	ceramic	platter	40	
230	378	necropolis	ceramic	platter	40	
231	378	necropolis	ceramic	platter	40	

232	378	necropolis	ceramic	jug	41	
233	378	necropolis	ceramic	jug	41	
234	378	necropolis	ceramic	jug	41	
235	378	necropolis	ceramic	jug	41	
236	378	necropolis	ceramic	kuza	42	
237	378	necropolis	ceramic	platter	42	
238	378	necropolis	ceramic	platter	42	
239	378	necropolis	ceramic	jug	43	
240	378	necropolis	ceramic	jug	43	
241	378	necropolis	ceramic	jug	43	
242	378	necropolis	ceramic	kuza	43	
243	378	necropolis	ceramic	platter	43	
244	378	necropolis	ceramic	platter	43	
245	378	necropolis	ceramic	platter	43	
246	378	necropolis	ceramic	platter	43	
247	378	necropolis	ceramic	platter	43	
248	378	necropolis	ceramic	platter	43	
249	378	necropolis	ceramic	platter	43	
250	378	necropolis	ceramic	platter	43	
251	378	necropolis	ceramic	platter	43	
252	378	necropolis	ceramic	platter	43	
253	378	necropolis	ceramic	platter	43	
254	378	necropolis	ceramic	platter	43	
255	378	necropolis	ceramic	jug	44	
256	378	necropolis	ceramic	jug	44	
257	378	necropolis	ceramic	jug	44	
258	378	necropolis	ceramic	dopu	44	
259	378	necropolis	ceramic	bardag	44	
260	378	necropolis	ceramic	jug	44	
261	378	necropolis	ceramic	platter	44	
262	378	necropolis	ceramic	platter	44	
263	378	necropolis	ceramic	platter	44	
264	378	necropolis	ceramic	platter	44	
265	378	necropolis	ceramic	platter	44	
266	378	necropolis	ceramic	platter	45	
267	378	necropolis	ceramic	pot	46	
268	378	necropolis	ceramic	pot	46	
269	378	necropolis	ceramic	pot	46	
270	378	necropolis	ceramic	pot	46	
271	378	necropolis	ceramic	pot	46	
272	378	necropolis	ceramic	pot	46	
273	378	necropolis	ceramic	pot	46	
274	378	necropolis	ceramic	pot	46	
275	378	necropolis	ceramic	pot	46	
276	378	necropolis	ceramic	butter churn	46	
277	378	necropolis	ceramic	platter	46	

278	378	necropolis	ceramic	bowl	46	
279	378	necropolis	ceramic	bowl	46	
280	378	necropolis	ceramic	bowl	46	
281	378	necropolis	ceramic	bowl	46	
282	378	necropolis	ceramic	platter	46	
283	378	necropolis	ceramic	platter	46	
284	378	necropolis	ceramic	platter	46	
285	378	necropolis	ceramic	platter	46	
286	378	necropolis	ceramic	platter	46	
287	378	necropolis	ceramic	platter	46	
288	378	necropolis	agate	beads	46	
289	378	necropolis	paste	beads	46	
290	378	necropolis	bronze	bracelet	46	
291	378	necropolis	bronze	bracelet	46	
292	378	necropolis	bronze	jewellery	46	
293	378	necropolis	bronze	jewellery	46	
294	378	necropolis	bronze	needle	46	
295	378	necropolis	bronze	earring	46	
296	378	necropolis	bronze	pendant	46	
297	378	necropolis	bronze	pendant	46	
298	378	necropolis	bronze	pendant	46	
299	378	necropolis	bronze	pendant	46	
300	378	necropolis	bronze	pendant	46	
301	378	necropolis	bronze	ring	46	
302	378	necropolis	ceramic	platter	47	
303	378	necropolis	ceramic	platter	47	
304	378	necropolis	ceramic	platter	47	
305	378	necropolis	ceramic	platter	47	
306	378	necropolis	ceramic	platter	47	
307	378	necropolis	ceramic	platter	47	
308	378	necropolis	ceramic	platter	47	
309	378	necropolis	ceramic	butter churn	47	
310	378	necropolis	ceramic	bowl	47	
311	378	necropolis	bronze	needle	47	
312	378	necropolis	agate	beads	47	
313	378	necropolis	bronze	bracelet	47	
314	378	necropolis	bronze	ring	47	
315	378	necropolis	ceramic	platter	48	
316	378	necropolis	ceramic	platter	48	
317	378	necropolis	ceramic	platter	48	
318	378	necropolis	ceramic	platter	48	
319	378	necropolis	bronze	needle	48	
320	378	necropolis	bronze	bracelet	48	
321	378	necropolis	bronze	needle	48	
322	378	necropolis	bronze	bracelet	48	
323	378	necropolis	agate	beads	48	

324	378	necropolis	ceramic	platter	49	
325	378	necropolis	ceramic	platter	49	
326	378	necropolis	ceramic	platter	49	
327	378	necropolis	ceramic	platter	49	
328	378	necropolis	agate	beads	49	
329	378	necropolis	bronze	bell	49	
330	378	necropolis	ceramic	platter	50	
331	378	necropolis	ceramic	platter	50	
332	378	necropolis	ceramic	platter	50	
333	378	necropolis	ceramic	platter	50	
334	378	necropolis	ceramic	platter	50	
335	378	necropolis	ceramic	platter	50	
336	378	necropolis	ceramic	platter	50	
337	378	necropolis	ceramic	platter	50	
338	378	necropolis	ceramic	platter	50	
339	378	necropolis	bronze	ring	50	
340	378	necropolis	agate	beads	50	
341	378	necropolis	ceramic	platter	51	
342	378	necropolis	ceramic	platter	51	
343	378	necropolis	ceramic	platter	51	
344	378	necropolis	ceramic	bowl	51	
345	378	necropolis	paste	beads	51	
346	378	necropolis	bronze	ring	51	
347	378	necropolis	bronze	bracelet	51	
348	378	necropolis	bronze	needle	51	
349	378	necropolis	ceramic	jug	8	
350	378	necropolis	ceramic	jug	8	
351	378	necropolis	ceramic	cup	8	
352	378	necropolis	ceramic	bowl	8	
353	378	necropolis	ceramic	platter	8	
354	378	necropolis	ceramic	platter	8	
355	378	necropolis	bronze	bracelet	8	
356	378	necropolis	bronze	bracelet	8	
357	378	necropolis	agate	beads	8	
358	378	necropolis	paste	beads	8	
359	378	necropolis	bronze	earring	8	
360	378	necropolis	bronze	earring	8	
361	378	necropolis	bronze	wire	8	
362	378	necropolis	bronze	pendant	46	
363	378	necropolis	bronze	pendant	46	
364	378	necropolis	agate	beads	46	
365	378	necropolis	paste	beads	9	
366	378	necropolis	mineral	ring stone	9	
367	378	necropolis	agate	beads	9	
368	378	necropolis	bronze	needle	9	
369	378	necropolis	obsidian	tool	9	

370	378	necropolis	ceramic	bardag	9	
371	378	necropolis	ceramic	platter	9	
372	378	necropolis	ceramic	platter	9	
373	378	necropolis	ceramic	platter	9	
374	378	necropolis	ceramic	platter	9	
375	378	necropolis	ceramic	platter	9	
376	378	necropolis	ceramic	platter	9	
377	378	necropolis	ceramic	platter	9	
378	378	necropolis	ceramic	jug	9	
379	378	necropolis	ceramic	jug	9	
380	378	necropolis	ceramic	bardag	9	
381	378	necropolis	ceramic	platter	9	
382	378	necropolis	ceramic	platter	9	
383	378	necropolis	ceramic	platter	9	
384	378	necropolis	ceramic	platter	9	
385	378	necropolis	ceramic	platter	9	
386	378	necropolis	ceramic	platter	9	
387	378	necropolis	ceramic	kuza	9	
388	378	necropolis	ceramic	mug	9	
389	378	necropolis	ceramic	jug	9	
390	378	necropolis	ceramic	platter	9	
391	378	necropolis	ceramic	jug	13	
392	378	necropolis	ceramic	jug	13	
393	378	necropolis	ceramic	bowl	13	
394	378	necropolis	ceramic	bowl	13	
395	378	necropolis	ceramic	platter	13	
396	378	necropolis	ceramic	bowl	13	
397	378	necropolis	ceramic	platter	13	
398	378	necropolis	stone	quern	13	
399	378	necropolis	ceramic	jug	45	
400	378	necropolis	ceramic	cooking-pot	45	
401	378	necropolis	ceramic	jug	45	
402	378	necropolis	ceramic	kuza	45	
403	378	necropolis	ceramic	jug	45	
404	378	necropolis	ceramic	platter	45	
405	378	necropolis	ceramic	platter	45	
406	378	necropolis	ceramic	platter	45	
407	378	necropolis	ceramic	platter	45	
408	378	necropolis	ceramic	platter	45	
409	378	necropolis	ceramic	platter	45	
410	378	necropolis	ceramic	platter	45	
411	378	necropolis	ceramic	dopu	45	
412	378	necropolis	bronze	necklace	45	
413	378	necropolis	bronze	wire	45	
414	378	necropolis	bronze	ring	45	
415	378	necropolis	obsidian	tool	45	

416	378	necropolis	bronze	jewellery	45	
417	378	necropolis	agate	beads	45	
418	378	necropolis	glass	beads	45	
419	378	necropolis	bronze	needle	45	
420	378	necropolis	ceramic	jug	52	
421	378	necropolis	ceramic	platter	52	
422	378	necropolis	glass	beads	52	
423	378	necropolis	paste	beads	52	
424	378	necropolis	paste	beads	52	
425	378	necropolis	bronze	wire	52	
426	378	necropolis	ceramic	jug	53	
427	378	necropolis	ceramic	jug	53	
428	378	necropolis	ceramic	jug	53	
429	378	necropolis	ceramic	jug	6	
430	378	necropolis	ceramic	jug	6	
431	378	necropolis	ceramic	cooking-pot	6	
432	378	necropolis	agate	bead	6	64 pieces
433	378	necropolis	paste	bead	6	2 pieces
434	378	necropolis	glass	bead	6	4 pieces
435	378	necropolis	bronze	needle	6	1 piece
436	378	necropolis	bronze	bracelet	6	1 piece
437	378	necropolis	bronze	bead	6	8 pieces
438	378	necropolis	bronze	button	6	4 pieces
439	378	necropolis	ceramic	cooking-pot	7	
440	378	necropolis	ceramic	jug	7	2 handles on shoulder
441	378	necropolis	ceramic	jug	7	Siberian deer image on shoulder
442	378	necropolis	ceramic	jug	7	the Sun's image on shoulder
443	378	necropolis	ceramic	cooking-pot	7	
444	378	necropolis	ceramic	pot fragment	7	
445	378	necropolis	ceramic	platter	8	
446	378	necropolis	ceramic	bardag	8	
447	378	necropolis	ceramic	bardag	8	
448	378	necropolis	ceramic	pot fragment	8	highly fragmentary, buried on site

### 2005 Excavations

	<b>KP</b>	<b>Type of Site</b>	<b>Material</b>	<b>Find</b>	<b>Grave</b>	<b>Comment</b>
1	378	necropolis	ceramic	dopu	60	
2	378	necropolis	ceramic	dopu	60	
3	378	necropolis	ceramic	jug	60	
4	378	necropolis	ceramic	platter	60	
5	378	necropolis	ceramic	jug	60	

6	378	necropolis	ceramic	bowl	61	
7	378	necropolis	ceramic	jug	61	
8	378	necropolis	bronze	bracelet	61	
9	378	necropolis	bronze	bracelet	61	
10	378	necropolis	ceramic	platter	63	
11	378	necropolis	ceramic	jug	63	
12	378	necropolis	ceramic	jug	63	
13	378	necropolis	ceramic	platter	63	
14	378	necropolis	ceramic	platter	63	
15	378	necropolis	ceramic	platter	63	
16	378	necropolis	ceramic	churn	63	
17	378	necropolis	ceramic	platter	63	
18	378	necropolis	ceramic	platter	63	
19	378	necropolis	ceramic	jug	63	
20	378	necropolis	ceramic	platter	63	
21	378	necropolis	ceramic	mug	63	
22	378	necropolis	stone	spindle whorl	63	
23	378	necropolis	ceramic	platter	65	
24	378	necropolis	bronze	bracelet	65	
25	378	necropolis	ceramic	platter	67	
26	378	necropolis	ceramic	platter	67	
27	378	necropolis	ceramic	dopu	67	
28	378	necropolis	ceramic	platter	67	
29	378	necropolis	ceramic	dopu	67	
30	378	necropolis	ceramic	platter	67	
31	378	necropolis	ceramic	platter	67	
32	378	necropolis	ceramic	jug	67	
33	378	necropolis	ceramic	platter	67	
34	378	necropolis	ceramic	churn	67	
35	378	necropolis	ceramic	platter	67	
36	378	necropolis	ceramic	platter	67	
37	378	necropolis	ceramic	platter	67	
38	378	necropolis	ceramic	platter	67	
39	378	necropolis	ceramic	platter	67	
40	378	necropolis	ceramic	platter	67	
41	378	necropolis	ceramic	platter	67	
42	378	necropolis	ceramic	platter	67	
43	378	necropolis	ceramic	platter	67	
44	378	necropolis	ceramic	platter	67	
45	378	necropolis	bronze	bracelet	67	
46	378	necropolis	bronze	needle	67	
47	378	necropolis	bronze	needle	67	
48	378	necropolis	agate	bead	67	3 pieces
49	378	necropolis	agate	bead	67	3 pieces
50	378	necropolis	sea shell	bead	67	
51	378	necropolis	paste	bead	67	150 pieces

52	378	necropolis	paste	bead	67	110 pieces
53	378	necropolis	ceramic	platter	67	
54	378	necropolis	ceramic	pot	66	
55	378	necropolis	ceramic	churn	66	
56	378	necropolis	ceramic	platter	64	
57	378	necropolis	ceramic	jug	64	
58	378	necropolis	ceramic	platter	64	
59	378	necropolis	ceramic	platter	64	
60	378	necropolis	ceramic	platter	69	
61	378	necropolis	ceramic	platter	69	
62	378	necropolis	ceramic	platter	69	
63	378	necropolis	ceramic	jug	69	
64	378	necropolis	ceramic	jug	69	
65	378	necropolis	ceramic	bardag	69	
66	378	necropolis	ceramic	platter	69	
67	378	necropolis	ceramic	platter	69	
68	378	necropolis	ceramic	platter	69	
69	378	necropolis	ceramic	platter	69	
70	378	necropolis	bronze	bracelet	69	
71	378	necropolis	bronze	earring	69	
72	378	necropolis	bronze	needle	69	
73	378	necropolis	bronze	needle	69	
74	378	necropolis	bronze	needle	69	
75	378	necropolis	sea shell	bead	69	8 pieces
76	378	necropolis	agate	bead	69	12 pieces
77	378	necropolis	paste	bead	69	63 pieces
78	378	necropolis	paste	bead	69	
79	378	necropolis	ceramic	platter	68	
80	378	necropolis	ceramic	platter	68	
81	378	necropolis	ceramic	platter	68	
82	378	necropolis	ceramic	jug	68	
83	378	necropolis	bronze	chain	68	
84	378	necropolis	ceramic	plate	71	
85	378	necropolis	ceramic	platter	72	
86	378	necropolis	ceramic	platter	72	
87	378	necropolis	ceramic	jug	72	
88	378	necropolis	ceramic	jug	72	
89	378	necropolis	ceramic	bardag	73	
90	378	necropolis	ceramic	jug	73	
91	378	necropolis	ceramic	platter	73	
92	378	necropolis	ceramic	platter	73	
93	378	necropolis	ceramic	platter	73	
94	378	necropolis	ceramic	pot	73	
95	378	necropolis	ceramic	dopu	73	
96	378	necropolis	ceramic	platter	73	
97	378	necropolis	ceramic	jug	73	

98	378	necropolis	ceramic	churn	73	
99	378	necropolis	ceramic	platter	70	
100	378	necropolis	ceramic	platter	70	
101	378	necropolis	ceramic	dopu	70	
102	378	necropolis	ceramic	dopu	70	
103	378	necropolis	ceramic	platter	70	
104	378	necropolis	ceramic	platter	70	
105	378	necropolis	ceramic	platter	70	
106	378	necropolis	ceramic	platter	70	
107	378	necropolis	ceramic	platter	70	
108	378	necropolis	ceramic	platter	70	
109	378	necropolis	ceramic	platter	70	
110	378	necropolis	ceramic	churn	70	
111	378	necropolis	ceramic	jug	70	
112	378	necropolis	ceramic	jug	70	
113	378	necropolis	ceramic	platter	70	
114	378	necropolis	ceramic	platter	70	
115	378	necropolis	ceramic	platter	70	
116	378	necropolis	ceramic	platter	70	
117	378	necropolis	ceramic	platter	70	
118	378	necropolis	ceramic	platter	70	
119	378	necropolis	bronze	spearhead	70	
120	378	necropolis	bronze	needle	70	
121	378	necropolis	bronze	ring	70	
122	378	necropolis	ceramic	platter	74	
123	378	necropolis	ceramic	jug	74	
124	378	necropolis	ceramic	jug	74	
125	378	necropolis	ceramic	jug	74	
126	378	necropolis	ceramic	jug	74	
127	378	necropolis	ceramic	jug	74	
128	378	necropolis	ceramic	platter	74	
129	378	necropolis	bronze	bracelet		
130	378	necropolis	bronze	earring		
131	378	necropolis	glass	bracelet		
132	378	necropolis	bronze	dagger	79	
133	378	necropolis	bronze	earring	79	4 pieces
134	378	necropolis	bronze	bracelet	79	
135	378	necropolis	bronze	arrow head	79	
136	378	necropolis	bronze	arrow head	79	
137	378	necropolis	bronze	arrow head	79	
138	378	necropolis	bronze	needle	79	
139	378	necropolis	ceramic	platter	79	
140	378	necropolis	ceramic	platter	79	
141	378	necropolis	ceramic	platter	79	
142	378	necropolis	ceramic	platter	79	
143	378	necropolis	ceramic	platter	79	

144	378	necropolis	ceramic	platter	79	
145	378	necropolis	ceramic	platter	79	
146	378	necropolis	ceramic	platter	79	
147	378	necropolis	ceramic	platter	79	
148	378	necropolis	ceramic	platter	79	
149	378	necropolis	ceramic	platter	79	
150	378	necropolis	ceramic	platter	79	
151	378	necropolis	ceramic	platter	79	
152	378	necropolis	ceramic	platter	79	
153	378	necropolis	ceramic	platter	79	
154	378	necropolis	ceramic	platter	79	
155	378	necropolis	ceramic	platter	79	
156	378	necropolis	ceramic	platter	79	
157	378	necropolis	ceramic	platter	79	
158	378	necropolis	ceramic	platter	79	
159	378	necropolis	ceramic	platter	79	
160	378	necropolis	ceramic	platter	79	
161	378	necropolis	ceramic	churn	79	
162	378	necropolis	ceramic	churn	79	
163	378	necropolis	agate	bead	79	5 pieces
164	378	necropolis	paste	bead	79	60 pieces
165	378	necropolis	agate	bead	79	2 pieces
166	378	necropolis	ceramic	platter	76	
167	378	necropolis	ceramic	platter	76	
168	378	necropolis	ceramic	platter	76	
169	378	necropolis	ceramic	platter	76	
170	378	necropolis	ceramic	jug	76	
171	378	necropolis	ceramic	jug	76	
172	378	necropolis	ceramic	platter	76	
173	378	necropolis	ceramic	jug	76	
174	378	necropolis	ceramic	churn	76	
175	378	necropolis	ceramic	jug	76	
176	378	necropolis	ceramic	dopu	76	
177	378	necropolis	ceramic	platter	76	
178	378	necropolis	ceramic	jug	76	
179	378	necropolis	ceramic	jug	76	
180	378	necropolis	ceramic	jug	76	
181	378	necropolis	agate	bead	76	14 pieces
182	378	necropolis	bronze	needle	76	
183	378	necropolis	bronze	earring	76	
184	378	necropolis	bronze	jewellery	76	
185	378	necropolis	bronze	button	76	
186	378	necropolis	ceramic	kuza	76	
187	378	necropolis	ceramic	jug	76	
188	378	necropolis	ceramic	platter	81a	altar
189	378	necropolis	ceramic	platter	81a	altar

190	378	necropolis	ceramic	bardag	81a	altar
191	378	necropolis	ceramic	jug	77	
192	378	necropolis	ceramic	kuza	77	
193	378	necropolis	ceramic	dopu	77	
194	378	necropolis	ceramic	platter	77	
195	378	necropolis	ceramic	platter	77	
196	378	necropolis	ceramic	platter	77	
197	378	necropolis	ceramic	platter	77	
198	378	necropolis	ceramic	platter	77	
199	378	necropolis	ceramic	platter	77	
200	378	necropolis	ceramic	dopu	77	
201	378	necropolis	ceramic	jug	77	
202	378	necropolis	ceramic	platter	77	
203	378	necropolis	ceramic	platter	77	
204	378	necropolis	ceramic	platter	77	
205	378	necropolis	ceramic	platter	77	
206	378	necropolis	ceramic	platter	77	
207	378	necropolis	ceramic	dopu	77	
208	378	necropolis	bronze	earring	77	2 pieces
209	378	necropolis	bronze	bracelet	77	
210	378	necropolis	agate	bead	77	8 pieces
211	378	necropolis	paste	bead	77	37 pieces
212	378	necropolis	ceramic	jug	78	
213	378	necropolis	ceramic	jug	78	
214	378	necropolis	ceramic	platter	78	
215	378	necropolis	ceramic	platter	78	
216	378	necropolis	ceramic	platter	78	
217	378	necropolis	ceramic	platter	78	
218	378	necropolis	ceramic	platter	78	
219	378	necropolis	ceramic	platter	78	
220	378	necropolis	ceramic	platter	78	
221	378	necropolis	ceramic	platter	82	
222	378	necropolis	ceramic	platter	82	
223	378	necropolis	ceramic	platter	82	
224	378	necropolis	ceramic	platter	82	
225	378	necropolis	ceramic	platter	82	
226	378	necropolis	ceramic	platter	82	
227	378	necropolis	ceramic	platter	82	
228	378	necropolis	ceramic	platter	82	
229	378	necropolis	ceramic	platter	82	
230	378	necropolis	ceramic	dopu	82	
231	378	necropolis	bronze	bracelet	82	
232	378	necropolis	bronze	pendant	82	
233	378	necropolis	ceramic	jug	80	
234	378	necropolis	ceramic	jug	80	
235	378	necropolis	ceramic	platter	80	

236	378	necropolis	ceramic	platter	80	
237	378	necropolis	ceramic	platter	80	
238	378	necropolis	ceramic	platter	80	
239	378	necropolis	ceramic	jug	80	
240	378	necropolis	ceramic	platter	80	
241	378	necropolis	ceramic	platter	80	
242	378	necropolis	ceramic	bowl	80	
243	378	necropolis	ceramic	jug	81	
244	378	necropolis	ceramic	dopu	81	
245	378	necropolis	ceramic	jug	81	
246	378	necropolis	ceramic	jug	81	
247	378	necropolis	ceramic	platter	81	
248	378	necropolis	ceramic	platter	81	
249	378	necropolis	ceramic	platter	81	
250	378	necropolis	ceramic	platter	81	
251	378	necropolis	ceramic	platter	81	
252	378	necropolis	bronze	needle	81	
253	378	necropolis	bronze	dagger	81	
254	378	necropolis	ceramic	jug	84	
255	378	necropolis	ceramic	platter	84	
256	378	necropolis	ceramic	platter	84	
257	378	necropolis	ceramic	jug	84	
258	378	necropolis	ceramic	platter	84	
259	378	necropolis	bronze	bracelet	84	
260	378	necropolis	bronze	pendant	84	2 pieces
261	378	necropolis	paste	bead	84	16 pieces
262	378	necropolis	paste	bead	84	
263	378	necropolis	paste	bead	84	3 pieces
264	378	necropolis	bone	bead	84	2 pieces
265	378	necropolis	agate	bead	84	10 pieces
266	378	necropolis	agate	bead	84	304 pieces
267	378	necropolis	ceramic	jug	85	
268	378	necropolis	ceramic	jug	85	
269	378	necropolis	ceramic	jug	85	
270	378	necropolis	ceramic	jug	85	
271	378	necropolis	ceramic	platter	85	
272	378	necropolis	ceramic	platter	85	
273	378	necropolis	ceramic	dopu	85	
274	378	necropolis	ceramic	platter	85	
275	378	necropolis	ceramic	platter	85	
276	378	necropolis	ceramic	platter	77a	altar
277	378	necropolis	ceramic	jug	76b	altar
278	378	necropolis	ceramic	jug	76b	altar
279	378	necropolis	ceramic	platter	76b	altar
280	378	necropolis	ceramic	platter	83	
281	378	necropolis	ceramic	platter	83	

282	378	necropolis	ceramic	cooking-pot	83	
283	378	necropolis	ceramic	platter	83	
284	378	necropolis	ceramic	jug	83	
285	378	necropolis	ceramic	jug	83	
286	378	necropolis	ceramic	jug	83	
287	378	necropolis	ceramic	jug	83	altar
288	378	necropolis	bronze	jewellery	83	
289	378	necropolis	ceramic	pot	82	
290	378	necropolis	ceramic	pot	82	
291	378	necropolis	ceramic	dopu	85	

#### DJ Maynard Comments

Grave 8 has bronze objects 2-6 figure 33 mostly brooches but they are not listed in the section on the grave

Ditto for Grave 9 supposed to have flint and a needle from the Fig 33

Grave 16 A bronze spearhead, iron spearhead, bronze bracelet and bronze earring were recovered from this grave. These are not described, but are illustrated in Fig27, 28, 33 I have photographs of this. Fig 28 says a bronze dagger comes from this grave, but there is no other mention of this.

Grave 19 (Figures 23, 24, 30) Needs details of which object is which.

Grave 26 I have a photograph of the grave which has a bronze bracelet on it. Figure 33 shows a large bronze awl which is supposed to come from this grave, no mention in the text.

Figure 30 is wrong from a photograph, the dagger is more likely to be no.1 rather than no.2

Grave 31 I have a photograph of a bronze pin/awl and two open ended bracelets from this, also a view of a bronze object beside the skull's jaw. The bronze objects are also listed on Dick's sheet for the grave

Grave 40 the text says there was nothing but pottery in this, but the drawings show 3 objects a bronze pin and 2 obsidian? Flakes

Grave 42 text says there is nothing but pottery the drawing (Fig33) shows a bronze pin and two bracelets. I also have a photograph showing the bronze pin beside the skull.

Grave 42a No description of the bronze pin that is supposed to be here (maybe it was mixed with Grave 42?)

Grave 43 the report says 'bronze ring and an iron dagger' the finds description says 'Bronze ring and Bronze needle' Figure 30 shows needle and dagger, Inventory shows nothing

Grave 47 description says '2 bronze hoops and a bronze pendant with a wave-shaped central portion' Finds section says 'bronze needle and two earrings', Inventory says 'needle, bracelet, ring' Plate 53 says 'bronze needle and three rings'.

Grave 51 Plate 52 has rather more bronze objects than the text or inventory says.

Grave 53 Very little on inventory, Report says two bronze bracelets, drawing shows one, Claire's notes say one bracelet

Grave 54 No Inventory

Grave 55 No inventory

Grave 77 No description of the bronze items, are there two ear rings as in the drawing or one as in the text?

Grave 79 No drawing of dagger. Drawing of something that looks a dagger pommel, but no description of anything resembling this, altogether more on the drawings than shown on the inventory.

Grave 82 text and inventory say there are only 20 objects, but the drawing shows three. The diadem description more easily fits that on Fig 26.3 which does not easily fit in Grave 79

I'll pass the fact that Kate's bone report has included three bags with human bone from graves the report say has no bone.

Include the radiocarbon results

The drawings are of a very variable quality, many could be deleted, I've started with some.

Ditto the Photographs, I have some that help to demonstrate those that are vague.

Need better site plans

The site could be better illustrated with a table showing contents and other results.

There is a huge discrepancy between inventory and report in some cases, in others they are very close. I've not had a chance to audit between inventory/report/drawings and back and forth.