Findaid 2/106

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Iron Smelting in the Kavango Region

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Introduction

Interviews on historical iron making in Kavango, northern Namibia and southern Angola held in 2006 and 2007

Conducted by Eileen Kose, University of Cologne, Department of Prehistory

In 2006 I developed a questionnaire on iron metallurgy that was basically focusing on issues arising from an archaeological background such as furnace types, spatial patterns, mines and trade relationships. During the first contacts and questionings with local blacksmiths, I revised and expanded my questionnaire in accordance with new information from the sociocultural background. For this reason, the type of interviews is slightly different. During the interviews I did not always follow the order of the given questions since the informants frequently talked freely about the topic. This was inasmuch important as they provided me with information that I as a cultural outsider would never have considered in my interviews. After finishing I usually summarized the interviews and revised open questions together with the informants a couple of days later. Many problems and misunderstandings evolved from translation problems since I am not able to speak the local languages.

Most interviews are recorded on videotape. However, in 2007, my video camera got stolen and I continued with a digital voice recorder.

Interviews that were translated by Michael Hakusembe were held in Rukwangali, interviews translated by Cosmas Kashongo were held in Thimbukushu.

This research was part of the collaborative research centre SFB 389 'ACACIA' of the University of Cologne, Germany. It was financed by the German Research Foundation (DFG).

Eileen Kose

The material consists of paper records, which are also reproduced in this finding aid, 37 video cassettes with field recordings, 36 DVDs with copies of the same recordings, and 10 CDs with audio field recordings.

Details of interviews

1. Alberto Munoma Makayi (Born 1948)

Resident: Rundu

Interview: Nyemba iron making in Kafuma, southern Angola.

7 hours interview on videotape & 4.05 MB voice record (text, songs, iron weapons and tools filmed at the Open Market in Rundu). Translated by Michael Hakusembe and Hilda Ndumba. Interviews were held on the 7th August 2006, 1st August 2007, 7th August 2007, 6th of October 2007 at the Open Market and at his homestead in Rundu.

2. Johannes Mashela Kenga 'Salikumbe' (Date of birth unknown, around 1945)

Resident: Vungu-Vungu

Interview: Chokwe iron making in Kwango, southern Angola.

8 hours interview from the 26th July 2007, the 31st July 2007, 06th of August 2007, 5th of

October 2007 (text, some tools).

3. George Kahiata (Born 1951)

Resident: Karrangana

Interview: Iron making in Mupini, Kavango and Rushinga/Baixo Longa in southern Angola. His grandparents were smelters of Chokwe origin who continued to produce iron after their migration to the Kavango River in Mupini.

A total of 61.8 MB (4 parts) voice record (approximately 3 to 4 hours of interview) from the 7th of October 2007 (text). Translated by Michael Hakusembe.

4. Petrus Kudumo Kampanzela 'Mukisi Koro' (Born 22nd February 1927)

Resident: Kayengona

Interview: Iron making in Vungu-Vungu, Kavango

Interviews were held on the 14th August 2006, 23rd August 2006, 31st of July 2007, 4th

October 2007. (Text, songs, tool forging).

8 hours interview on videotape, 4 of them Petrus Kampanzela while he was forging tools.

Further 5,86 MB voice record of a folktale. Translated by Michael Hakusembe.

After the first interview from the 14th Aug. in 2006 I asked if we could assist him one day while he was forging tools. So we came on the 23rd August to his place and recorded his work for 4 hours. While observing him working, I continued my interview and asked again questions on issues that I did not understand previously. Thus the smithing tapes are part of the whole interview. In 2007 we visited him again in order to get more information on the songs that the people used to sing whilst operating the bellows. In the course of the interview he told us the folktale of the giant who was killed by a swallowed blacksmith. In some parts of Kavano this folktale reflects the magic power of blacksmiths and smelters in the mythological world.

5. Paulus Ndumba (Born 1914)

Resident: Rucara

Interview: Dciriku iron making in Kashivi, southern Angola

3 hours of interview on video tape and 20 MB voice record from the 20th of August 2007, 05th of October 2007, 08th of October 2007 (text).

Unfortunately this interview was not completely recorded due to a malfunction of the dictating machine on the 5th of October. Thus only field notes exist from that part.

6. Modestus Kashera Shimbiringua (Born 1924)

Resident: Kamboho

Interview: Tjaube/Shambyu iron making in Kauti, Gove and Vungu-Vungu

09th October 2007

21,9 MB interview (text).

This is only a brief interview in order to acquire a basic knowledge of iron making in this area. I did not follow the questionnaire.

7. Petrus Kashako Kaputura (Born 1st February 1911; passed away in early 2007)

Resident: Havo

Interview: Hambukushu iron making in Kapongo, Kavango

5 hours interview on videotape (text) translated by Cosmas Kashongo; held the 26th and 27th of August 2006.

8. Marembo Bernardo Tovero (Born 1952); Yimadhara Joseph Matende (Born 1951); Manyandero Filipus Mukura (Born 1958); (Peter Kandjendje); (Marcus Kandunda)

Residents: Dikundu

Interview: Hambukushu iron making in Dikundu, Kavango

5 hours interview from the 12th August 2006 on 5 videotapes, translated by Cosmas Kashongo.

Open questions from both interviews from Kapongo and Dikundu were revised the 3rd September 2006 in Dikundu village with the aforementioned informants. 1 hour videotape, translated by Cosmas Kashongo.

Interview questionnaire

INTRODUCTION

- 1- Date of interview
- 2- Place of interview
- 3- Names of participants:

Name of interviewee:

Name of translator:

Name of others:

4- Personal details:

Occupation, profession, trade

Place of birth

Age (date of birth)

Ethnicity

How long have you lived in this region (and why did you come here)?

Which languages do you speak?

Are you yourself a blacksmith/smelter?

- 5- From whom did you get the information on iron making? Did somebody tell you about it?
- 6- Are blacksmith and smelter independent trades in your society? Does every man in your society know how to smelt and to forge?

QUESTIONS ON THE SMELTING PLACE

- 7- Where did they usually smelt and why did they choose this place?
- 8- Did they always smelt close to the source of ore?
- 9- How many people used to smelt there at the same time?
- 10- How many furnaces were usually in use at the same time?
- 11- How big was the entire smelting area?
- 12- How long has this smelting place been used?

QUESTIONS ON THE SOURCE OF ORE AND MINING

- 13- What kind of ore did they use (colour, texture, quality)?
- 14- How many iron ore mines does he know?
- 15- Where were these mines located?
- 16- How big were these mines?
- 17- Which mines were important and which ones were less important? Why were they less important?
- 18- How was the consistency/quality of the ore?

Sandy, soft stones/nodules, hard stones/nodules?

Reddish, yellowish, brown, black/metallic?

- 19- What colour was good quality ore and what colour was bad quality ore?
- 20- How did they extract the ore?

Above ground, from surface deposits?

Subsurface from deeper deposits?

21- Who extracted the ore?

Men, women, children?

- 22- What kind of tools did they use?
- 23- Did they crush the ore and sort it out? (To what size/how small)?
- 24- How did they carry the ore to the smelting site (the furnaces)?
- 25- Who carried the ore?
- 26- How many ore did they use for one smelt (smelting process)?

QUESTIONS ON CHARCOAL

- 27- What type of wood did you use and why did you choose it?
- 28- How far away from the smelting sites were these trees?
- 29- Who burnt the charcoal?
- 30- Where did they burn the charcoal?
- 31- How much charcoal was needed for one smelting process?

QUESTIONS ON THE SMELTING FURNACE

32- What type of furnaces did they use?

Pit furnace, clay aboveground furnace, termite hill

33- Did they choose a particular place for the construction of the furnace?

Flat area, slope, hill

34- What was the shape of the furnace (sketch)?

Length, width, depth

- 35- In terms of pit furnaces: did they made a mud or clay lining first?
- 36- Where (how) did the slags come out of the furnace?
- 37- Where (how) did the iron come out of the furnace?
- 38- What type of tools did they use for building the furnace?
- 39- How many bellows were part of the furnace?
- 40- Where were the bellows put in? How were they attached?
- 41- What were the bellows made out of?
- 42- Did they use a particular wood for the carving of the bellows and why did they use it?
- 43- How big were the bellows?
- 44- What were the blowing pipes made out of? And how did they make them?
- 45- Size of the blowing pipes:

Diameter air supply, diameter air outflow, length

- 46- Has he ever heard of stone blowing pipes?
- 47- Who operated the bellows?
- 47- Were the furnaces and the bellows ornamented/decorated?

QUESTIONS ON THE SMELTING PROCESS

- 48- When and in which season did people usually smelt?
- 49- How many times a year/a month/a week did people smelt?
- 50- How many days of work did it take, starting from the extraction of the ore till the raw iron was molten?
- 51- How did they stack the charcoal and the iron ore in the furnace, and how thick were the layers?
- 52- From which side did they stack the furnace?
- 53- Is there anything else that they put in the furnace apart from ore and charcoal? (e. g. flux, 'medicine')
- 54- Were the furnaces then closed/Did they close the furnace?

- 55- From which side did they light the fire?
- 56- How many hours did the smelting process take?
- 57- What was the consistency of the raw iron like?

Lumpy, liquid, thick/viscous?

- 58- How long did they wait until they could remove the bloom from the furnace (cooling of the furnace)?
- 59- How did they remove the bloom?
- 60- Where exactly within the furnace was the quality iron and where were the waste and slags?
- 61- What did they exactly look like and what were the differences in regard to quality?
- 62- Did they forge the bloom at the smelting site or did they carry it to another place?
- 63- How did they carry the bloom to the smithy?
- 64- What amount of iron did they extract from one smelt and how much of the raw iron was considered to be a successful smelt?
- 65- What was considered to be not successful?
- 66- How did the waste look?
- 67- What did they do with the waste/slags?
- 68- Did they re-use the furnace for another smelt or did they destroy the furnace when they took out the bloom?

QUESTIONS ON FORGING

- 69- How far away from each other were the smithing and the smelting site?
- 70- Did they establish particular zones/areas for smithing?

Within the village?

Within the homestead?

71- What type of tools did they use for smithing?

Hammer, anvil, callipers, sharpening stone, bellows, (chisel), water, others

- 72- What kind of wood did they use for the smithing fire and why did they use this particular type of wood?
- 73- How does the waste from forging look like?
- 74- What type of items did they produce?

Hoe, axe, hammer, knives, spear, harpoon, arrow head, fire lighter, (needle), (chisel), (wire), razor/knife for cosmetic purposes, jewellery

QUESTIONS ON PROPORTIONS OF SMELTING SITE AND SETTLEMENT

- 75- Did the people live close to the smelting sites?
- 76- Did they live in permanent settlements close to the smelting sites or did they live in temporary housings?
- 77- Did the entire family live in these villages or only parts of it, e. g. the workers only?
- 78- Was it forbidden for some people to go to the smelting place?
- 79- Who was allowed to go there?

Women, men, young, old

- 80- Was the area fenced/enclosure around the smelting site?
- 81- Was it allowed to smelt iron in the villages?
- 82- Was it allowed to forge in the villages?
- 83- Was it allowed to carry iron ore to the villages?
- 84- How did the workers live during the smelting period?
- 85- What did they eat during the smelting period?

- 86- Were people allowed to approach the smithy?
- 87- Were women allowed to cross the smithy?

QUESTIONS ON THE TRADE/PROFESSION

88- What different kinds of profession do you generally distinguish in your culture? What kind of professions exist in your culture?

Smelter, blacksmith, potter, carpenter/woodworker, healer, fisher, hunter, (basket maker), others

89- From whom did the iron workers learned their skills?

In their families, from other people

- 90- Were smelters and blacksmiths respected people?
- 91- Was there a difference between smelters and blacksmiths in terms of being more or less respected?
- 92- What kind of power did they poses?
- 93- Was the Hompa himself a blacksmith?
- 94- Were smelters or blacksmiths able to heal (because of their trade)?
- 95- Were they able to do magic?
- 96- Were smelters and blacksmiths rich people (compared to farmers for instance)?
- 97- Did they own cattle and fields?
- 98- Did smelters and blacksmiths hunt?
- 99- Were they allowed to marry only particular women?
- 100- Who showed the xxx people how to smelt iron and how to forge?
- 101- Does he know for how long have the xxx people worked iron?
- 102- Does he remember a time where the xxx people did not know yet how to make iron?

OUESTIONS ON RITES AND CEREMONIES

- 103- What kind of ceremonies or rituals did they hold before they started with the smelting activities / during the smelting activities ?
- 104- Did they make offerings?
- 105- What did they give/sacrifice?
- 106- Did they sing during the smelting activities and what was the meaning of their songs?
- 107- Did they wear a particular dress during the smelting activities?
- 108- Did they celebrate if the smelt was successful?
- 109- Did they also celebrate if the smelt was not successful?
- 110- Who was to blame if the smelt did not succeed?

QUESTIONS ON THE ETHNIC BACKGROUND AND TRADE RELATIONSHIPS

- 111- According to him what people does he remember who used to smelt their own iron?

 Ovambo, Herero, Kwanyama, Kwangali, Mbunza, Dciriku, Shambyu,

 Mbukushu, Nyemba, Umbundu, Chokwe, San, others
- 112- Did they make iron tools only for their own use or did they also produce tools for selling them to other people ?
- 113- Did they only trade with their surrounding areas or did they sell tools (and perhaps raw iron) further afield?
- 114- With whom did they trade?
- 115- What kind of items did they usually sell? Iron bloom, raw iron, bars/ingots, finished products

116- What were the prices of the finished products ? (Axe, hoe, hammer etc., refers to question no. 74)

QUESTIONS ON IRON WORKERS AMONG SAN PEOPLE

- 117- Were San people able to smelt?
- 118- Were they able to forge?
- 119- From whom did they learn it?
- 120- What role did they play during

Mining and smelting, forging, in respect to trade

121- Did I overlook something important/May he add something important?

B. DVD (video recordings) These are copies from the video cassettes (Part D)

ADV	Resourceperson	Subject	#	Date
0021	Alberto Munoma Makayi	Nyemba iron smelting in Kafuma.	4	2006-08-07
0022		Part 1-4		
0023				
0024				
0025	Alberto Munoma Makayi	Nyemba iron smelting in Kafuma.	3	2007-08-01
0026		Part 5-7		
0027				
0028	Johannes Marbela Kenga	Iron smelting in Kwango,	5	2007-07-31
0029		Southern Angola (Chokwe). Part		
0030		1-5		
0031				
0032				
0033	Johannes Marbela Kenga	Iron smelting in Kwango,	3	2007-08-24
0034		Southern Angola (Chokwe). Part		
0035		6-8		
0036	Paulus Ndumba	Dciriku iron smelting in Kashivi.	3	2007-08-24
0037		Part 1-3		
0038				
0039	M. Tovero, J.G. Matende,	Mbukushu iron smelting at	4	2006-08-12
0040	M.F. Mukura, P.	Dikundu. Part 1-4		
0041	Kandjendje, M. Kandundu			
0042				
0043	M. Tovero, J.G. Matende,	Mbukushu iron smelting at	1	2006-08-12 +
	M.F. Mukura, P.	Dikundu. Part 5 + Mbukushu iron		2006.09.03
	Kandjendje, M. Kandundu	smelting Havo & Dikundu		
		Supplement		
0044	Petrus Kudumo	Shambyu iron smelting in Vungu-	4	2006-08-14
0045	Kampanzela	Vungu. Part 1-4		
0046				
0047				
0048	Petrus Kudumo	Shambyu iron smelting in Vungu-	4	2006-08-23
0049	Kampanzela	Vungu. Part 5-8		
0050				
0051				
0052	Petrus Kashako Kaputura	Mbukushu iron smelting in	5	26&27-08-
0053		Kapongo. Part 1-5		2006
0054				
0055				
0056				

C. CD (voice records) These are copies of digital recordings

ACD	Resource person	Subject	#	Date
0129	Petrus Kudumo	Shambyu iron smelting in Vungu-	2	2007-10-04
0130	Kampanzela	Vungu. Part 9		
0131	Modestus Kashera	Shambyu iron smelting in Gove	2	2007-10-08
0132	Shimbiringwa	and Vungu-Vungu. Kamboho		
0133	George Kahiata	Chokwe iron smelting Rushinga,	2	2007-10-07
0134		Angola and Mupini, Kavango.		
		Part 1-4		
0135	Paulus Ndumba	Dciriku iron smelting at Kashivi.	2	2007-10-08
0136		Part 4		
0137	Alberto Munoma Makayi	Nyemba iron smelting in Kafuma.	2	2007-10-06
0138		Part 8		

D. Video Cassettes

MV	Resource person	Subject	#	Date
0408	Alberto Munoma Makayi	Nyemba iron smelting in Kafuma.	4	2006-08-07
0409	-	Part 1-4		
0410				
0411				
0412	Alberto Munoma Makayi	Nyemba iron smelting in Kafuma.	3	2007-08-01
0413		Part 5-7		
0414				
0415	Johannes Marbela Kenga	Iron smelting in Kwango,	5	2007-07-31
0416		Southern Angola (Chokwe). Part		
0517		1-5		
0418				
0419				
0420	Johannes Marbela Kenga	Iron smelting in Kwango,	3	2007-08-24
0421		Southern Angola (Chokwe). Part		
0422		6-8		
0423	Paulus Ndumba	Deiriku iron smelting in Kashivi.	3	2007-08-24
0424		Part 1-3		
0425				
0426	M. Tovero et al.	Mbukushu iron smelting at	4	2006-08-12
0427		Dikundu. Part 1-4		
0428				
0429				
0430	M. Tovero et al.	Mbukushu iron smelting at Dikundu. Part 5	1	2006-08-12
0431		Mbukushu iron smelting Havo & Dikundu Supplement	1	2006.09.03
0432	Petrus Kudumo	Shambyu iron smelting in Vungu-	4	2006-08-14
0433	Kampanzela	Vungu. Part 1-4		
0434	1			
0435				
0436	Petrus Kudumo	Shambyu iron smelting in Vungu-	4	2006-08-23
0437	Kampanzela	Vungu. Part 5-8		
0438	•			
0439				
0440	Petrus Kashako Kaputura	Mbukushu iron smelting in	5	26-08-2006
0441	1	Kapongo. Part 1-5		27-08-2006
0442				
0443				
0444				