

Appendix Two

“A great variety of inclusions have been found in prehistoric pottery, the material used depending both upon the custom of the potter and what was afforded by her environment.”

Shepard (1936:405).

B.1 Introduction

Particular emphasis is given to technological evidence. Excavated and surface collected pottery from several related sites both within and beyond the Khorat Plateau has been examined (figs. 1.1, 8.1 and 8.2). Most are located within the plateau *sensu stricto*. Table B.1 summarizes their archaeological status and methods of data treatments.

Site numbers follow Kijngam *et al.* (1980) for Kumphawapi and Mahasarakham regions, and Bayard (1980) for the Pa Mong region. Capital letters refer to sites not previously codified.

B.2 Catalogue of Sites

The following tables list prehistoric and modern sites both within the Khorat Plateau and the Central Highlands. In addition the Khok Phanom Di ceramic assemblage has also been considered. For a preliminary statement on the fabrics from the latter site refer to the ceramic section contributed by the writer in Higham *et al.* (1987).

TABLE B.1: Catalogue of sites examined.

(i) Sakon Nakhon Basin.			
Site No.	Site.	Status.	Analytical method.
64	Non Rong Rian	surface	thin-section
65	Ban Phan Don	surface	hand specimen
67	Ban Non Nam Tiang	surface	thin-section
68	Ban Muang Phruk	excavated	thin-section
76	Non Khi Jing	surface	hand specimen
77	Ban Khon Sai	surface	hand specimen
78	Ban Phai Chan	surface	thin-section
79	Ban Don Kaen	surface	hand specimen
84	Ban Lao Mak Ba	surface	hand specimen
86	Ban Nong Khok Kok	surface	thin-section
88	Ban Lao Suan Khluay	surface	thin-section
89	Ban Yang	surface	thin-section
90	Ban Chit	surface	thin-section
91	Ban Hua Nong Khlong Charoen	surface	hand specimen
92	Ban Don Kok	surface	thin-section
93	Ban Na Di	excavated	thin-section
94	Ban Tan Dieo	surface	hand specimen
95	Ban Hua Nong Yang	surface	hand specimen
97	Non Kao Noi	excavated	thin-section
102	Ban Tha Muang	surface	hand specimen
103	Non Noi	surface	hand specimen
105	Non Si Phu	surface	hand specimen
118	Ban Kha Wua	surface	hand specimen
120	Non Na Bo	surface	hand specimen
121	Ban Muang Pang	surface	thin-section
130	Ban Ya	surface	thin-section
131	Ban Kho Tai	surface	thin-section
132	Non Ban Nad	surface	thin-section
133	Non Ban Bua	surface	thin-section
138	Ban Mak Ba	surface	hand specimen
140	Ban Chiang Wae	surface	hand specimen
A	Ban Phak Top	surface	thin-section

TABLE.1 continued: Catalogue of sites examined

Site No.	Site.	Status.	Analytical method.
(ii) Khorat Basin.			
(a) Chi Valley.			
142	Ban Kho Noi	excavated	thin-section
150	Non Noi	excavated	thin-section
161	Ban Chiang Hian	excavated	thin-section
B	Non Chai	excavated	thin-section
(b) Mun Valley (lower).			
C	Non Dua	excavated	thin-section
D	Bo Phan Khan	excavated	thin-section
E	Don Taphan	excavated	thin-section
(c) Mun Valley (upper).			
F	Phimai	excavated	thin-section
(iii) Central Highlands.			
(a) Petchabun.			
G	Kok Charoen	excavated	thin-section
(b) Phu Wiang.			
H	Nong Non Chik	excavated	thin-section
I	Nong Nok Tha	excavated	thin-section

TABLE.1 continued: Catalogue of sites examined.

(c) Pa Mong.			
Site No.	Site.	Status.	Analytical method.
J	Phrik Mound	excavated	thin-section
K	Pha Phim Cave	excavated	thin-section
L45	Non U Mung	surface	thin-section
L71	Non Na Nong Khong	surface	thin-section
V1	Ban Tak Det (Laos)	surface	thin-section

In addition the following modern fabrics were examined:

Sakon Nakhon Basin:			
	Ban Chiang	modern	thin-section
	Ban Phu	modern	thin-section

Pa Mong:			
	Ban Na Kraseng	modern	thin-section
	Non U Mung	modern	thin-section

Mahasarakham:			
	Ban Mø	modern	thin-section

TABLE B.2: Schedule of sites examined.

Region	excavated	surface	modern
Sakon Nakhon Basin	3	29	2
Khorat Basin	8	-	1
Central Highlands	5	3	2
Totals:	16	32	5

B.3 Sakon Nakhon Basin surface collected fabrics

TABLE B.3: Sakon Nakhon Basin surface collected fabrics.

Site No.	analytical method	temper	fabrics
64	thin-section	rice	micaceous reduced
	hand specimen	*	-
	hand specimen	?	stoneware
65	hand specimen	blebs	-
	hand specimen	rice	-
	hand specimen	?	stoneware
67	thin-section	rice	sandy/micaceous, oxidised
76	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-
77	hand specimen	blebs	-
	hand specimen	rice	-
78	thin-section	*	moderately micaceous **
	hand specimen	blebs	-
79	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-
84	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-
86	thin-section	*	sandy, moderately micaceous
	hand specimen	blebs ?	-
	hand specimen	rice	-
88	thin-section	*	abundant spicules (clay 10)**
	hand specimen	blebs	-
	hand specimen	rice	-
89	thin-section	*	micaceous oxidised **
	thin-section	blebs	sandy
	hand specimen	rice	-
90	thin-section	rice	reduced
	hand specimen	blebs ?	-
91	hand specimen	rice	-
92	thin-section	*	micaceous
	hand specimen	blebs	-
	hand specimen	rice	-
94	hand specimen	* ?	-
	hand specimen	blebs	-
	hand specimen	rice	-
95	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-

TABLE.3 continued: Sakon Nakhon Basin surface collected fabrics.

Site No.	analytical method	temper	fabrics
102	hand specimen	* ?	-
	hand specimen	stoneware	-
103	hand specimen	blebs	-
	hand specimen	rice	-
	hand specimen	porcelain	-
105	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-
118	hand specimen	sand ?	-
	hand specimen	blebs	-
	hand specimen	rice	-
120	hand specimen	*	-
	hand specimen	blebs	**
	hand specimen	stoneware	-
121	thin-section	blebs	**
	hand specimen	rice	-
130	thin-section	*	sandy, m. micaceous, reduced
	thin-section	blebs	sandy, m. micaceous, oxidised **
	thin-section	rice	sandy, m. micaceous, reduced
	thin-section	blebs	micaceous reduced **
131	thin-section	blebs	sandy, moderately micaceous
	thin-section	*	moderately micaceous **
	thin-section	rice	reduced
132	thin-section	*	micaceous few nonplastics
	thin-section	blebs +	micaceous few nonplastics
	thin-section	*	sandy/micaceous
	thin-section	rice	silty
	thin-section	*	micaceous
	thin-section	*	micaceous
133	thin-section	blebs +	moderately micaceous, reduced **
	thin-section	blebs	spicules/micaceous **
	thin-section	rice	micaceous ** ++
138	hand specimen	*	-
	hand specimen	blebs	-
	hand specimen	rice	-
140	hand specimen	rice	-
A	thin-section	blebs	sandy, moderately micaceous

Totals: 29 sites, 78 sherds (26 thin-sectioned).

notes: * orthodox grog. ** exterior surface red painted/slipped.

+ few blebs with abundant rice.

++ surface decoration consists of a red painted or slipped design comprised of spirals or concentric rings and circles. This kind of ware has often been categorised as 'Ban Chiang Painted'.

B.4 Ban Muang Phruk Rimforms

TABLE B.4: The Ban Muang Phruk rimform fabrics.

rimform	level	spit	temper
US 56	5	16	blebs
US 56	5	16	blebs **
US 65	5	18	*
US 74	5	18	blebs
US 78	5	16	blebs **
US 84	5	18	blebs **
US 87	5	18	blebs **
US 101	5	17	blebs
US 108	5	18	blebs
US 110	5	16	blebs **
US 164	5	17	blebs **
US 190	5	21	blebs
US 191	5	21	blebs ?
US 192	5	21	blebs ?
US 193	5	16	blebs
US 194	5	21	blebs
US 195	5	17	blebs ?
US 196	5	21	blebs **
US 197	5	20	blebs
US 198	5	17	blebs
US 198	5	20	blebs **
US 199	5	20	blebs
US 201	5	19	blebs ?
US 96	4	14	blebs
US 99	4	17	blebs
US 168	4	15	blebs **
US 174	4	15	blebs
US 200	4	15	blebs
US 202	4	10	blebs
US 203	4	15	blebs **
US 203	4	15	blebs **

TABLE.4 continued: The Ban Muang Phruk rimform fabrics.

rimform	level	spit	temper
US 204	4	15	blebs
US 205	4	15	blebs
US 207	4	14	rice
US 208	4	14	sand ? +
US 209	4	14	rice
US 210	4	14	rice
US 212	4	14	blebs
US 213	4	14	blebs
US 216	4	13	blebs
US 218	4	13	blebs
Non Chai			
type 2AA	3	11	blebs
Non Chai			
type 2AA	3	9	blebs
US 67	3	8	rice ***
US 119	3	8	blebs
US 178	3	8	rice
US 211	3	8	blebs
US 214	3	7	blebs
US 217	3	8	rice ++
US 219	3	9	blebs
US 220	3	9	blebs
US 221	3	9	rice ***
US 222	3	8	rice ***
US 223	3	8	rice ***
US 224	3	8	blebs
US 225	3	7	blebs
US 226	3	5	rice (Phimai ?)
US 227	3	7	blebs
US 228	3	7	rice ++
US 229	3	7	rice
US 230	3	7	rice
US 231	3	7	rice ++
US 206	2	5	rice
US 232	2	6	rice
US 233	2	6	rice ++
US 234	2	6	rice ++
US 235	2	6	rice ++
US 236	2	6	rice ++
US 237	2	6	rice +
US 238	2	6	rice ++

TABLE.4 continued:The Ban Muang Phruk rimform fabrics.

rimform	level	spit	temper
US 239	2	6	rice (Phimai ?)
US 240	2	5	rice (Phimai ?)
US 241	2	5	blebs
US 242	2	5	rice ++
US 243	2	5	rice
US 244	2	5	blebs
US 245	2	5	rice
US 246	2	5	rice ++
US 247	2	4	rice (Phimai ?)
US 248	2	4	rice (Phimai ?)
US 249	2	4	rice
US 250	2	4	rice
US 251	2	4	* and plant material
US 252	2	4	rice ***
US 253	2	4	rice ++ ***
US 254	2	3	rice ***
US 255	2	3	rice
US 256	2	3	blebs
US 257	2	3	rice ++ ***
US 258	2	2	rice ++ ***
US 259	2	2	rice ++ ***
US 260	2	2	rice ++ ***
US 261	2	2	rice ++ ***

Notes: * orthodox grog.

** sandy blebs Chi Valley ?

+ Ban Chiang Hian LVI.

++ sandy with rice temper.

*** rice, the fabric is reduced throughout.

B.5 Ban Kho Noi and Non Noi fabric distributions

TABLE B.5: The chronological distribution of Ban Kho Noi fabrics.

orthodox grog						
level	mod. micaceous	sandy	'Roi Et'	blebs *	rice	total
3	3	4 +	5	2	-	16
2	-	1 +	1	-	1 ++	6

Notes: + as for Ban Chiang Hian sandy grog: rimforms MC 5, MC 6, MC 8, BCH 10 and Non Chai II BB.

* rimforms BCH 2b and Non Chai class 2 type cc.

"Roi Et" fabrics include rimforms Non Chai class I type A BCH 42, MC 4 and Non Chai class 2 type AA.

++ rimform MC 9.

TABLE B.6: The chronological distribution of Non Noi fabrics.

orthodox grog						
level	mod. micaceous	sandy	sand	'Roi Et'	total	
1	1	-	-	-	1	
2	2	2	2	1	7	
3	-	5	1	-	6	

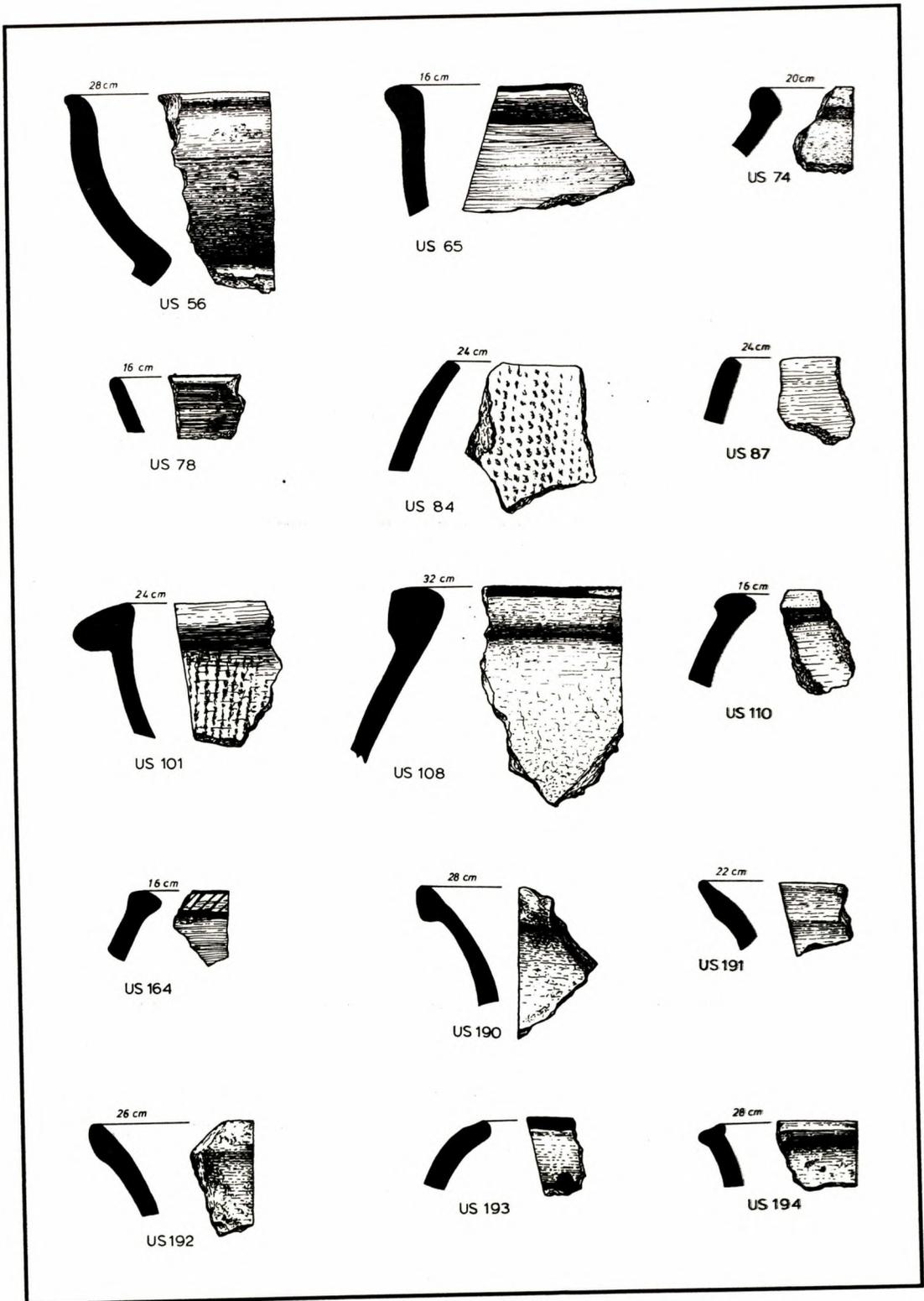


FIGURE B.1: BAN MUANG PHRUK RIMFORMS. Level 5. Scale 1:2.

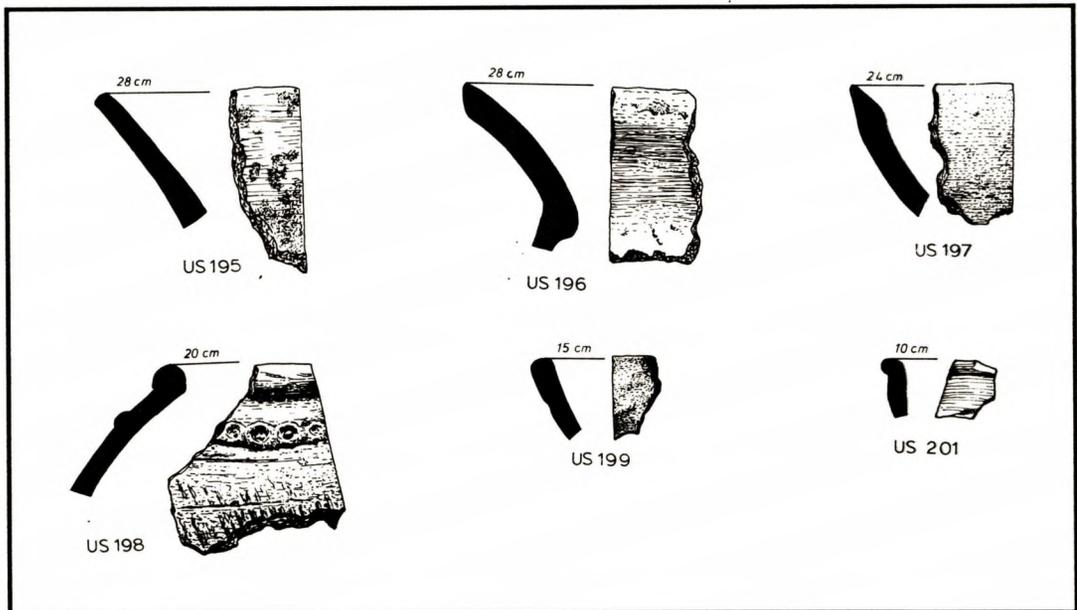


FIGURE B.2: BAN MUANG PHRUK RIMFORMS. Level 5. Scale 1:2.

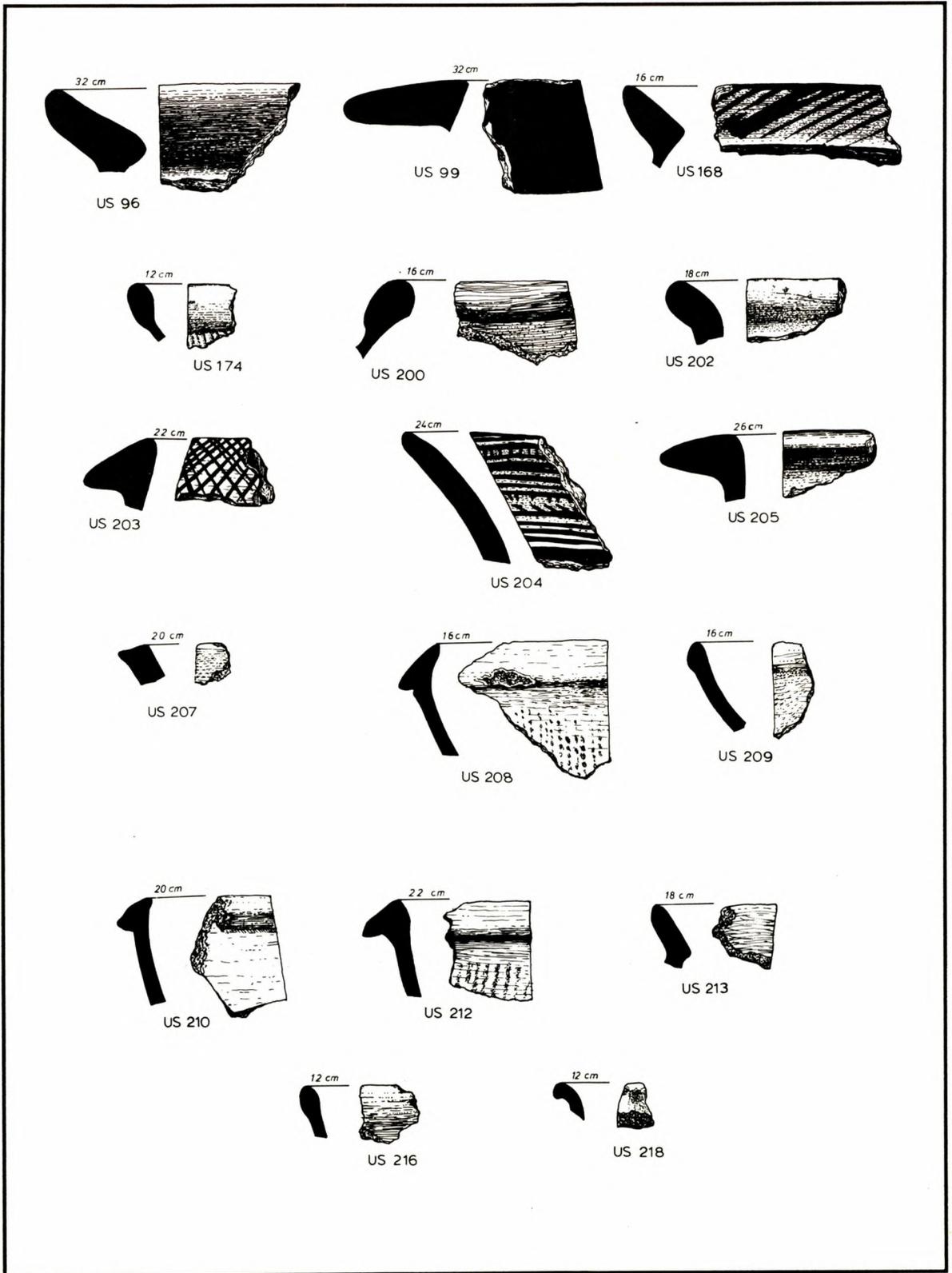


FIGURE B.3: BAN MUANG PHRUK RIMFORMS. Level 4. Scale 1:2.

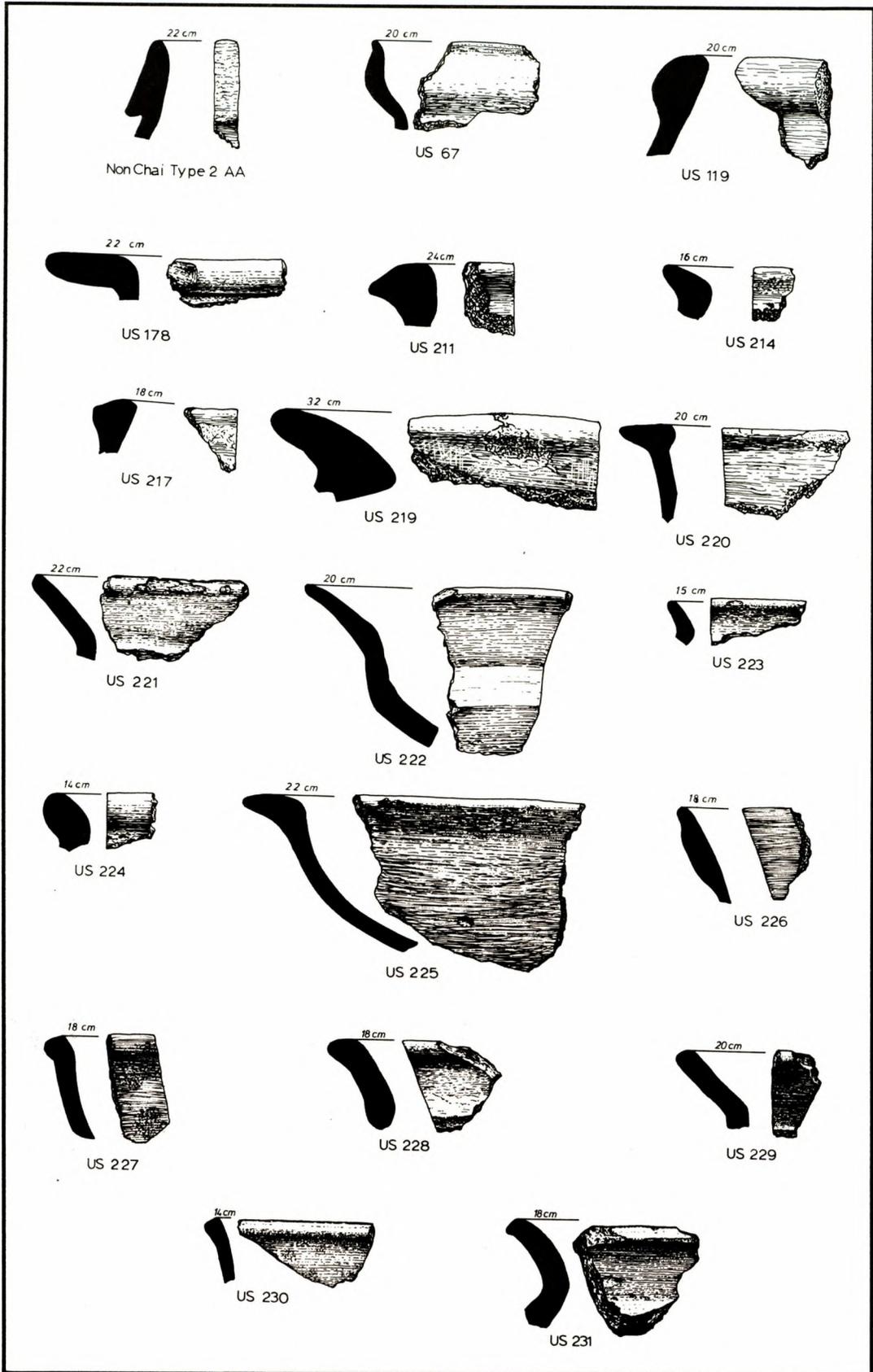


FIGURE B 4: BAN MUANG PHRUK RIMFORMS. Level 3. Scale 1:2.

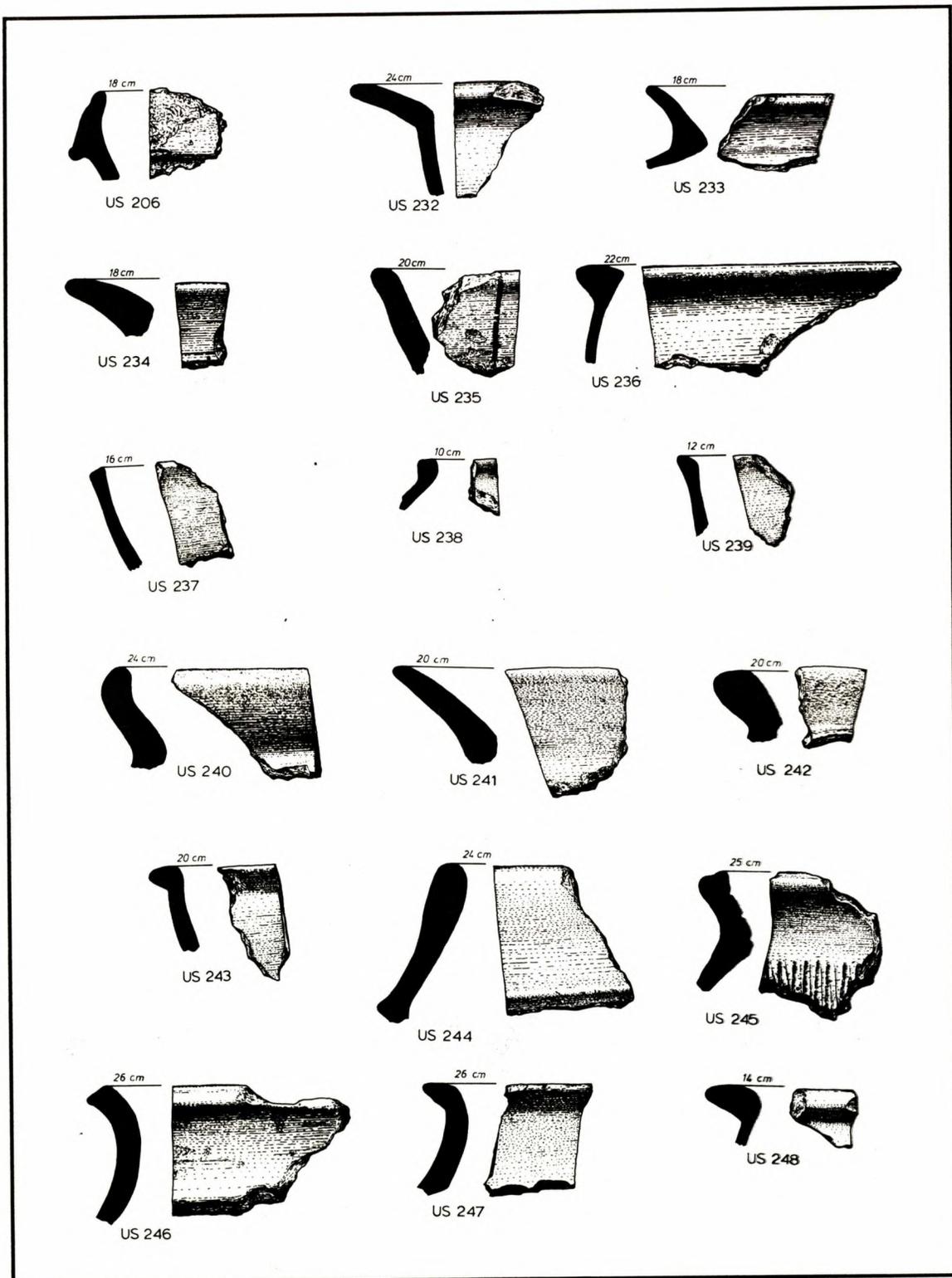


FIGURE B.5: BAN MUANG PHRUK RIMFORMS. Level 2. Scale 1:2.

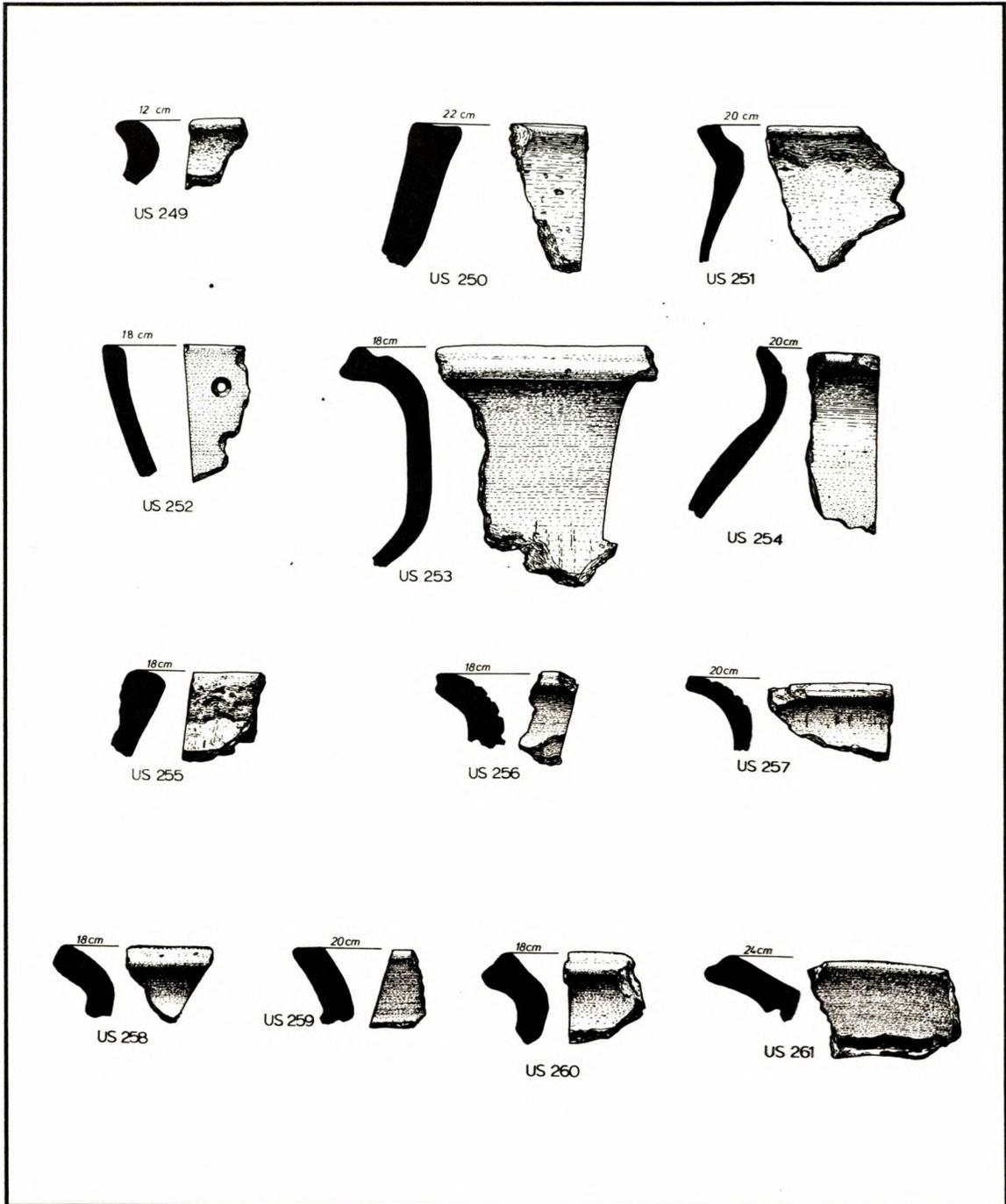


FIGURE B.6: BAN MUANG PHRUK RIMFORMS. Level 2. Scale 1:2.

TABLE B.7: The construction and surface finish of Pots 62 and 63.

Pot 62	Pot 63
rim constructed as continuum of vessel wall	rim attached separately to upper wall surface
“Z” twist cord marks: helix angle 35° diameter 0.75 mm	“Z” twist cord marks: helix angle 49° diameter 1.2 mm
red painted design	no painted design
wall thickness 3 mm (av.)	wall thickness 5 mm(av.)
exterior wall colour 2.5YR/5/4	7.5YR/6/4

Notes: Pot 62 cordmarks have a low applied angle of inclination (30 °). On pot 63 this is much higher (60 °). A series of 17 red dots, about 10 mm in diameter and 15 mm to 35 mm apart, circumscribe the upper body margin and a red line (10R/4/4) marks the extreme rim edge. Not mould made, it is oxidised apart from small fireclouds to the base. It dates to mortuary phase 1c.

Pot 64 contrasts with pot 62 in several respects. It is completely reduced (2.5YR/2.5/0), and cordmarks extend almost to the upper rim edge. The rim is modelled as an extension of the walls in a single construction operation. Cord diameter (<0.75 mm) and angle of inclination (30 ° to 45 °) are similar to pot 62. This vessel is earlier and dates to mortuary phase 1b.

TABLE B.8: The surface decoration of rims at Ban Na Di.

level	temper	red slip/paint	%	plain	%	total
8	*	-	-	8	100.00	8
7	*	-	-	16	100.00	16
6	*	3	16.66	15	83.33	18
5	*	2	33.33	4	66.66	6
4	*	-	-	3	100.00	3
8	-	-	-	-	-	-
7	blebs	2	100.00	-	-	2
6	blebs	11	84.61	2	15.39	13
5	blebs	36	90.00	4	10.00	40
4	blebs	38	89.47	4	10.53	38
3	blebs	14	73.68	5	26.32	19

Note: * orthodox grog.

Appendix Three

C.1 Incised wares at Ban Na Di

The following table summarizes the surface finish characteristics of incised and painted or slipped sherds at Ban Na Di. Sherds such as these have often been categorised as “Om Kaeo”. A discussion the these sherds is set out in chapter ten.