

UR EXCAVATIONS  
ARCHAIC TEXTS



*Kil Grayson*  
*Toronto*  
*1981*

PUBLICATIONS OF THE JOINT EXPEDITION OF THE BRITISH MUSEUM AND OF  
THE UNIVERSITY MUSEUM, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA,  
TO MESOPOTAMIA

# UR EXCAVATIONS TEXTS

## II

# ARCHAIC TEXTS

By

ERIC BURROWS, S.J., M.A.  
of Campion Hall, Oxford

PRINTED BY ORDER OF THE TRUSTEES OF THE TWO MUSEUMS

1935

SOLD IN GREAT BRITAIN AT THE BRITISH MUSEUM  
AND BY  
BERNARD QUARITCH 11 *Grafton Street London W.1*  
HUMPHREY MILFORD *Oxford University Press London E.C.4*  
KEGAN PAUL, TRUBNER & Co. LTD.  
38 *Great Russell Street London W.C.1*

SOLD IN THE UNITED STATES AND CANADA  
BY THE UNIVERSITY OF PENNSYLVANIA PRESS

PRINTED IN ENGLAND BY HARRISON AND SONS, LTD.  
PRINTERS IN ORDINARY TO HIS MAJESTY  
44-47, ST. MARTIN'S LANE, LONDON, W.C.2



## PREFACE

THE second volume of texts from the excavations of the Joint Expedition of the British Museum and of the University Museum, University of Pennsylvania, at Ur contains texts of two kinds, one group belonging to the period preceding the time of the First Dynasty of Ur, and the other to the period preceding the Agade dynasty. They are accounts, lists of objects and other documents connected with temple business or schools. They were found during the seasons 1926 to 1934.

This volume, which contains an explanatory introduction, and lists that are a contribution to the palæographical study of the texts and to their interpretation, is the work of Father Eric Burrows, S.J., M.A., of Campion Hall, Oxford. Mr. C. J. Gadd, of the Department of Egyptian and Assyrian Antiquities at the British Museum, has acted as editor.

(Sd.) GEORGE HILL.

*December, 1935.*

CONTENTS

	PAGE
PREFACE .. .. .	v
ABBREVIATIONS .. .. .	vii
INTRODUCTION .. .. .	i
NAME LIST .. .. .	27
CATALOGUE .. .. .	41
INDEX TO ASSYRIAN SIGNS .. .. .	61
	PLATES
SIGN LIST .. .. .	I-37
COPIES .. .. .	I-L
PHOTOGRAPHS .. .. .	A-F

## ABBREVIATIONS

- Al 'Ubaid* = *Ur Excavations I* (H. R. Hall and C. L. Woolley).  
*Amherst* = *The Amherst Tablets* (T. G. Pinches).  
*Ant. Jour.* = *The Antiquaries Journal*.  
*AW* = *Altbabylonische Wirtschaftstexte* (W. Förtsch).  
*Br.* = Brünnow, *Classified List*.  
*BE* = *Babylonian Expedition of the University of Pennsylvania*.  
*CT* = *Cuneiform Texts . . . in the British Museum*.  
*DP* = *Documents présargoniques* (Allotte de la Fuye).  
*F* = Fara.  
*F.* followed by numeral = sign list in *Die Inschriften von Fara, I. Liste der archaischen Keilschriftzeichen* (A. Deimel).  
*F. Sch.* = *Schultexte aus Fara* (Inscr. von Fara, II : Deimel).  
*F. Wirts.* = *Wirtschaftstexte aus Fara* (Inscr. von Fara, III : Deimel).  
Hoffman = Hoffman Tablet, Barton, *Babylonian Writing*, p. vii.  
Huber = *Die Personennamen in den Keilschrifturkunden* (E. Huber).  
*ITT* = *Inventaire des tablettes de Tello* (F. Thureau-Dangin and H. de Genouillac).  
*JAOS* = *Journal of the American Oriental Society*.  
*JN* = Jemdet Nasr.  
*JN* followed by numeral = sign list in *Pictographic Inscriptions from Jemdet Nasr* (S. Langdon).  
*JN* no. — = inscriptions in the same.  
*MI* = *Miscellaneous Inscriptions* (A. T. Clay).  
*MVAG* = *Mitteilungen der Vorderasiatisch-Aegyptischen Gesellschaft*.  
*Nik.* = M. V. Nikolski. *Drevnosti vostochnuiya*, Tom. III, Part II.  
*Orient.* = *Orientalia*.  
*OBI* = *Old Babylonian Inscriptions* (H. V. Hilprecht).  
*Panth.* = *Pantheon Babylonicum* (A. Deimel).  
*PBS* = *University of Pennsylvania : University Museum : Publications of the Babylonian Section*.  
*PN* = Proper name.  
*PN* followed by numeral refers to the Name List.  
*R* = Rawlinson, *Cuneiform Inscriptions of Western Asia*.  
*RA* = *Revue d'Assyriologie*.  
*R. Cem.* = *Ur Excavations II, The Royal Cemetery* (C. L. Woolley).  
*REC* = *Recherches sur l'origine de l'écriture cunéiforme* (F. Thureau-Dangin).  
*R. Inscr.* = *Ur Excavations : Texts I : Royal Inscriptions* (C. J. Gadd and L. Legrain).  
*RTC* = *Recueil de tablettes chaldéennes* (F. Thureau-Dangin).  
*S* = Sign.  
*S.* followed by numeral refers to the Sign List.  
*SAI* = *Seltene assyrische Ideogramme* (B. Meissner).  
*SAK* = *Die sumerischen und akkadischen Königsinschriften* (F. Thureau-Dangin).  
*SIS* : see Introduction, I.  
*SL* = *Šumerisches Lexikon* (A. Deimel).  
*TSA* = *Tablettes sumériennes archaïques* (H. de Genouillac).  
*TSBA* = *Transactions of the Society of Biblical Archaeology*.  
*ZA* = *Zeitschrift für Assyriologie*.



## INTRODUCTION

This volume contains principally a collection of archaic documents (No. 1–No. 373) found beneath the “Royal Cemetery” of Ur. They are intermediate in character between the collections of Jemdet Nasr and Fara. As a supplement are added various other early documents from Ur of the period Fara-Agade (Supp. No. 1–No. 52).

## PRINCIPAL COLLECTION

### I. PROVENANCE.

In 1926–27 were discovered in the trial trenches which initiated the excavation of the “Royal Cemetery” a dozen archaic tablets and one or two sealings; and in 1928–29 in strata beneath the cemetery nearly 250 tablets and fragments of like kind. In the following season, 1929–30, it became possible to define more exactly the provenance of these documents. The vertical south-western side of the excavation revealed a well-defined succession of sloping strata containing rubbish thrown down from the town west of the cemetery site. Many of the strata contained seal-impressions, whence eight “seal-impression strata” were distinguished and named SIS I to SIS VIII. SIS IV (from which SIS V was hardly distinguished) was correlated with the above-mentioned stratum that ran immediately beneath the cemetery. In it were found some sixty tablets and fragments similar to those found in the preceding seasons. A pit in the western corner of the site, which cut three lower strata, SIS VI, VII and VIII, provided a few tablets which hardly differ from those assigned to SIS IV (No. 305–No. 307). SIS I and II ran *above* the cemetery; the few tablets assigned to these strata, being much later than the principal collection, are left to the supplement (Plate 45ff.). Lastly, in 1931–32 and in 1932–33, some additional tablets were excavated from SIS IV/V.

Thus the bulk of our Principal Collection is homogeneous, its provenance being an ancient stratum of rubbish into which were dug the earliest graves of the “Royal Cemetery.” The few exceptions are noted in the Catalogue.

### II. ORDER OF THE COPIES.

The copies have been made and the plates arranged on various occasions, mostly before all the matter was in hand.

1–14 : collection of 1926–27.

15 : 1927–28.

16–235 : 1928–29.

- 236-307 : 1929-30.
- 308 : add to 1926-27.
- 309 : add to 1928-29.
- 310 : add to 1926-27.
- 311-337 : seal-impressions of 1928-30.
- 338 : add [before 1926 ?].
- 339-372 : 1932-33.
- 373 : add to 1928-29.

The few tablets found in 1931-32 were not to hand at the time of publication, and some of the inscribed seal-impressions of the collection, 1929-30, are being published by Dr. Legrain. Some details from photographs and copies are incorporated in the lists below.

### III. CLASSIFICATION ACCORDING TO KIND.

- (a) Most of the tablets contain accounts concerning the cereals and their products, live stock, etc. For principal subject of each document see Catalogue. For synthesis of the material see below Section V.
- (b) Some seventy tablets and fragments deal with landed property. See Catalogue, and below Section V, J.
- (c) Lists of proper names : 62, 63, 253, 259 and probably some of the fragments.
- (d) Labels or the like : 7, 42, 43, 44, 244, 265 (?), 266 (small documents, roughly circular, bearing a name or brief note, with irregular under-surface ; cf. 54, 60 as regards form).
- (e) School tablets. 14, 264, 299, 300, 301 are fragments containing duplicates to *F. Sch.* 33, etc. Eight copies of this document were already known, five from Fara and three of the Agade period (Deimel, *Orient.* NS I, 1932, p. 220 ; *F. Sch.*, p. 24). Our five fragments represent four or five other copies. 234 is a large fragment duplicating and supplementing the Fara fish-list, *F. Sch.* 9, 10, 11. 134 duplicates part of *F. Sch.* 20. The following more or less probable school-texts and fragments appear to be new : 37, 69, 105, 129, 131 with 192, 169 with 182B, 262 with 283, 272, 372.
- (f) Fantasy or unintelligible : 8, 56, 275.
- (g) Clay sealings with inscribed signs : 290, 312. Clay sealings with roughly scratched markings, partly script signs and partly not : 311, 313, 314, (316). The latter are specimens of more than fifty such sealings found in SIS IV in 1929-30. Here, perhaps, may also be classed 249, 250, 263, 265 (?), 292 + 293.
- (h) Clay sealings impressed with cylinder inscriptions. No. 1 forms a class by itself : the seal-inscription was in relief : the writing approximates to that of JN. 316-337 are a homogeneous group from SIS IV. Most if not all are from jars, the impression of the jar and string being often visible. The signs are mingled in many instances with ornamental designs. It is sometimes difficult to distinguish writing from ornament. Some signs appear to be deformed to make an ornamental figure.

#### IV. CHRONOLOGICAL CLASSIFICATION AND RELATIVE DATE.

(a) The following appear to be older than the rest, having signs of approximately Jemdet Nasr period : 1, 63, 64, 232, 233 (*cf.* sign list 31, 99, 154, 228, 272, 367, 415).

(b) The great majority must be assigned to a period intermediate between the Jemdet Nasr and the Fara.

(c) The following are rather later and approximately of the Fara period : 2, 308, 310.

(As regards provenance, 63 and 64 belong, so far as our record goes, to the main collection, SIS IV ; 232 and 233 were found apart, in Pit G (referred to in *Ant. Jour.*, 1929, p. 328, and to be described in *Ur Excav.*, IV) ; 1, 2, 308, 310 came from the trial trenches before stratification was determined.

The evidence for the relative date of the SIS IV collection as a whole, with abstraction from (a) and (c), is as follows :—

##### (1) WRITING.

That it is less archaic than that of Jemdet Nasr is evident at a glance. But it is also certain that a large proportion of signs are more primitive than those of Fara. Signs too numerous to mention (about one-fifth of the sign list would be involved) have partially rounded forms where F already has the angular. The split or forked lines also occur more frequently than in F (*cf.* signs 4-5, 10-14, 54, 249, 367). For other primitive forms *cf.* signs 105, 131, 135, 269, 310, 314, 377, 396 ; correspondences with JN in signs 153, 220, 226, 251, 266, 270, 288, 294, 312, 319, 393 ; with Hoffman and Blau tablets in 72, 218, 219, 403 ; etc.

The style of writing in two classes of documents diverges from that of the majority.

Some of the seal-impressions, though found with the tablets, have signs in forms that are rarely or never found on the tablets. This is especially true of U. 14896 (*cf.* signs 16, 58, 80, 119, 178 (?), 185, 191, 194, 226, 306, 334). Presumably a special calligraphy, that preserved many antique curvilinear forms, was used for cylinder inscriptions in this period. On the other hand, some of the school tablets from the same stratum contain signs that are somewhat less archaic than those used in the business documents. The following are examples of signs lacking the rounded corners that are characteristic of the archaic script of Ur : 299 i 2, 5, 13, iii 4 ; 264 i 3. *Cf.* also *PA* in 301 ; *gal* in 14 ii 2 ; *gan* in 105 i 6. It may be that the master scribes contemporary with the accountants of the SIS IV collection were already beginning to introduce the more abstract writing and other innovations which came into general use only in the Fara period.

##### (2) STYLUS.

The instrument was rather sharp, the "heads" of the wedges being slight. They seem to be generally less broad than those of Fara (photographs in *F. Sch.* and *Wirts.*) and not unlike those of the JN script (photographs *Al-'Ubaid*, pl. XLI).

## (3) SHAPE OF TABLETS.

The great majority of the tablets (to abstract from labels and the like) are oblong, with length [i.e., top to bottom of copies] greater than breadth, straight or slightly rounded sides, and but slightly rounded corners. Exceptions: length equals breadth of 49, 57, 241, 298; 50, 287, and perhaps a few other fragments, circular; 53 irregular; and probably some fragments of school tablets represent tablets broader than long.

*Comparison with JN and F.*—The average shape is like that of some, at least, of the JN tablets (*cf. Al-'Ubaid, loc. cit.*). The F. accounts are either oblong with corners not rounded and straight sides, or square with well-rounded corners and curved sides; the F. school tablets have the oblong shape (*F. Wirts, p. 2\**). Thus our school tablets have affinity with those of F., but the accounts are generally quite different in shape.

## (4) DIMENSIONS.

They vary much. The only complete tablet that has a length less than 4 cm. is No. 6. The only tablets and fragments that have an existing dimension of 12 cm. or more are 234, 262 + 283 (both school), 112, 371.

*Comparison with JN and F.*—The dimensions of the JN tablets have not been published. Those shown in *Al-'Ubaid, loc. cit.*, measure  $8 \times 7.7$  and  $5 \times 4.5$  cms., which are dimensions of the kind found at Ur. The F. tablets that are nearest in shape to those of our collection (the oblong) are usually very large—according to Kramer, *JAOS*, 1932, p. 122, “usually varying from 12 to 20 cm.”

## (5) SURFACES.

About 70 per cent. of the relatively complete tablets have obverse flat and reverse convex, or obverse slightly convex and reverse more convex; about 20 per cent. are nearly equally convex on both sides (occasionally nearly flat on both sides); about 10 per cent. are more convex on the obverse and less so, or flat, on reverse.

*Comparison with JN and F.*—These varieties appear to be represented, though not in the same proportion, also at JN: smaller tablets convex both sides (JN p. iii top); larger tablets convex on obverse and flat on reverse (p. iii bottom), or flat both sides (p. iv) or plano-convex (No. 24). At Fara it is otherwise and there is more regularity: larger tablets plano-convex, smaller tablets slightly convex both sides (*F. Wirts, p. 2\**).

## (6) COLUMNS.

Columns are divided into cases in the usual way. 371 iv contains the only instance of a subdivision. The asymmetrical subdivisions that characterize the JN tablets do not occur. The affinity is here with Fara and later texts.

## (7) REVERSE.

The reverse is most often uninscribed. When it is inscribed the tablet is turned over on the bottom edge, as at Fara; never laterally, as sometimes at JN.

The right column of the obverse may run over on to the reverse (*e.g.*, 18, 62, 171, 181, 252, 341); or the left column runs over (17, 20); or several columns



run over (e.g., 84, 89, 112, 255); or there is a single independent column on the right of the reverse (5, 88, 224, 260), or on the left (11, 85, 225, 259), or in the middle (66); or a sequence of columns beginning from the right, the right-hand column being continuous with obverse right (cf. 358) or not so (cf. 127, 163, 177, 345), or beginning from the left (14, 19, 104, 162, 199, 202, 226, 235); or the inscription is written across the reverse without columnation.

*Comparison with JN and F.*—At JN, as at Ur, there is no strict convention: the reverse appears to be written generally from the left (also from the right? cf. JN p. iv). At F there is already a strict convention: text continued from right, summary from left.

(8) TOTALS.

Totals are not frequent. *gú-an-šú* is sometimes used. (The rule which governs its use is not clear to me.) *šu-nigin* never occurs.

*gú-an-šú* (or perhaps a variant) occurs in JN no. 12 rev. In F *gú-an-šú* is used regularly and *šu-nigin* also occurs (F. Wirts, p. 3\*).

(9) DETERMINATIVES.

*dingir* and *ki* seem, in the business documents at least, to be used especially when they were required for clarity or were an integral part of the word (cf. p. 20 and p. 22). The use in JN may have been similar (see for *dingir* p. 21; for *ki* JN 238). In F both are used more freely.

(10) GRAMMATICAL INDICATIONS.

The verbal prefix *ni-* occurs once, and probably *a-* in one or two terms.

At JN *ni-* occurs in one term doubtfully. At F the prefix *an-na-*, probably developed from *a-*, occurs in several. Cf. p. 22.

Phonetic complements never or but once in JN (JN p. 26 n.); fairly frequent in Ur (p. 22); about the same, or rather more frequent, in F.

(11) SEAL IMPRESSION. DRAWING.

On 247 is the vestige of a seal-impression, too faint for reproduction, but probably of the kind that is characteristic of JN.

On 299 rev. is a drawing of the kind that is characteristic of F.

(12) NUMERALS.

The numeral system agrees on the whole with that of JN. The centesimal system is used when the reference is to a measure of capacity. The barred numerals occur frequently. See Plates 35-37.

(13) NOMENCLATURE.

Characteristic of our period is the preference of *amar* to *ur*, and of *ama* to *nin*. In JN the use may have been similar.<sup>1</sup> In F is a clear approximation to later use (see pp. 6, n. 3; 20).

<sup>1</sup> Cf. JN 293 [probably *amar*], 398, 295, 305.

## CONCLUSION.

There is thus evidence of many kinds that the present collection of documents is intermediate between those of JN and F.<sup>2</sup>

## V. THINGS MENTIONED IN THE DOCUMENTS.

The tablets of Jemdet Nasr excepted, these accounts are the earliest considerable collection of written documents concerning the agricultural civilization. The following is an attempt to index and classify the information.

## A. ANIMALS.

(1) Sheep. *udu-nita*, rams: 30 i, ii; *ganam*, ewes: 16 i, 30 i, ii. Fatted sheep and similar: *udu-še*: 16 i, 30 iii, 151, 255 i; *udu-kú*: 186 ii; *gukkal*: 16 i; *udu-du<sub>8</sub>* (cf. Legrain, *Rois d'Ur*, 53, n. 1, and *máš-du<sub>8</sub>*, below): 36 ii.

*udu-dug*: 7; 372 i (probably offerings). *udu* with *a-tag<sub>4</sub>*: 203 i (cf. *SL* 63, 2: here 'dedicated'? cf. 298). *udu* with *DU-DU*: 36 ii.

*udu-ur<sub>4</sub>*, superscription to 80: sheepshearing. *ša-udu*, superscription to 151, probably descriptive of fields.

*udu* also in 24 i; 30 iii; 36 i 1; 151, 3; 186 ii; 252 iii; 254.

(2) Goats. *máš*: 3 i, 16 i, 47 i, 186 i, 223. *máš-nita*: 298; *máš-ad*: 294; *úz*: 237. 115 (concerning skins): *kuš-edin-máš*. (*máš-du<sub>8</sub>-gún*, 16 i, and *máš-du<sub>8</sub>-gún-tag<sub>4</sub>*, 298: well-grown goat in wool (cf. *SL* 106, 193: *gún-udu*). 298 probably an offering.

310 iv (later period): *pisan-S*. 372 (= fleece etc.; cf. F. 670) -*úz*.

(3) Lambs. S. 269 (*NIGIN + GIS*) in 16 ii and 231 i evidently denotes an animal. It is mentioned with sheep and goats, and in relatively large numbers. The sign must be the original of *SIL*.

(4) Swine. No mention in the accounts. S. 19 (eventually *šaḥ*) appears however for the first time. In JN the differentiation exemplified in our S. 18-S. 19 had not yet occurred (JN 127 being morphologically = S. 18 but in value = S. 19). S. 19 occurs in seven PN (see in sign list): value disputable in most: but in PN 768 *dun-dun* = *patānu* is probable, which would probably indicate an appropriation of S. 19 to swine.

(5) Oxen. 19 iii 6 (?); 127; 294. *še-gud-kú*: 20; 117 (?). *áb*: 289.

(6) Asses. Only in 127 i: *anšu-DUN.GI* (*Orient.* 20, pp. 21, 57).

(7) Account concerning fish and birds: 19.

Thus direct information concerning live-stock is meagre. On the other hand, the extraordinary frequency of *amar* in the PN (PN 145 — 201) witnesses to the prestige of domesticated animals in the culture and religion: cattle-farming provided the normal category for the expression of the relation between men and gods.<sup>3</sup>

<sup>2</sup> Perhaps the only exception to these consistent indications is the fact that two month-names may be discerned in JN (see JN 66), although none are to be found in the present collection or in F.

<sup>3</sup> 60 names with *amar*: 26 with *ur*. In Fara the proportion is almost exactly reversed: 110 names with *ur*, 45 with *amar*. (*AMAR* is surely equivalent to *būru* in many PN, — cf. PN 160, 169 to 173, 190, 191, 193, 194 — and no exceptions seem necessary.)

Names of occupation concerned with animals : below sect. M, Nos. 1b(?), 10, 27, 43, 44, 46, 47, 73, 78.

## B. THE CEREALS.

(1) *še*, *ziz* and *gig*.

(i) *še*, barley, by far the commonest.

With its various products : *zi*, S. 69, S. 70, *bappir*, *bulug*, *DUG* or *kás*. See below B(2) under these terms.

With reference to its destination : *še-ab*, *še-sangu*, *še-sangu-lugal*. See below sect. L (i), M (66). For a feast : 22 i (see sect. N).

Other terms : *še-bar-bar* : below J (vi) ; *še-è* (rent) : 20 ii ; *še-kú* (barley food) : 20, 78, 117 ; *še-kúr* : 288 i ; *še-mus*, in PN 657 ; *še-nu-bad* : 198 ii ; *še-numun* (barley seed) : 20 i, 201 i, 342 (?), cf. 178 i ; *še* [ ], *ú-a* : 362 ii.

Alone : 6 i ; 32 ii ; 73 ; 130 i 3 (?) ; 132, 2 (?) ; 236 i ; with *sila* expressed : 58 ; with *gur* : 199 iv, 276 ; with *lal* : 83 i, iv (?).

*še* seems to be used generically or technically in 162 vi 4, *še-sangu* following *bappir* ; 222 ii, *še-gál* following wheat. S. 25 possibly variant of *še*, or indicating a variety, in 158A : *šám-S.25-ĦA* (cf. 78, 1). Cf. sign list.

(ii) *ziz*, "emmer," triticum dicoccum.

With product : *kás*, S. 69, S. 70. See below, (2) (i and iv).

With destination : *ziz* (?) -*ab*. See below, L (i).

Other terms : *ziz-peš-du*. (below, J (ii)) ; *ziz-gál* (description of land), 98 iv ; *ziz*?, 117 ; *ziz* (?) -*gig*, 144.

Alone : 29 i ; 73 ; 162 vi ; 198 ii.

(iii) *gig*, wheat.

With products : S. 69, S. 70, *DUG*. See below, (2) i and iv.

With destination : perhaps *gig* and *gig-an* (restored) with *ab-sangu*. See below L (i).

*gig* (?) -*kal* : 223, 4.

Alone : 31, 66 iv (?), 212 ii, 222 ii, 236.

(2) The products of the cereals are meal, bread, malt and beer.

(i) The common word *zi*, meal, in *zi-kal* (fine flour), 83 i ; perhaps with S. 69 in 339 i ; with *BĀD* in 348 *passim* ; and in the term *še-zi-ma-sir*, 57. *kal* in 51 ii possibly abbreviation for *zi-kal*.

S. 387 ; probably variety of *zi* : 37 i ; 55 i.

*UD* in 32 i : perhaps *tappinnu*, a kind of flour (*SL* 381, 83).

Signs which occur often in these documents, but not elsewhere, are *NINDÁ* + *GIS.DAR* (S. 69) and *NINDÁ* + *SIM* (S. 70.)

S. 69 is mentioned with the three cereals, especially barley, and with flour. With *še* : 158B i ; 185 i, iii ; 205A ; 222 i ; and probably 85 i, iii. With *ziz* : 355. With *gig* : 66 ii. With *zi* : 339 i (?). With S. 387 : 37 i (school). Alone : 46 ii, 162 v, 251, 284 (?). Preceded by *še-numun* : 201 i.

S. 70 is mentioned with the three cereals, especially emmer, and with malt. With *še* : 29 i ; 83 i ; 183 i ; 340. With *ziz* : 29 ii ; 51 i ; 66 iii ; 150 ; 212 iii ; and perhaps 144 with *ziz* (?) -*gig*. With *gig* : 190 i, ii. With *bulug* : 37 i (school). Alone : 76 i, 132 ii ; 182A iv ; and 88 iii for the feast *ezen-ĦAR*.

These commodities were measured by *gur*-measure (cf. 83, 132, 182A, 185, 205) and can hardly be special kinds of bread or the like. Apparently nothing remains but that they are special kinds of meal prepared from the three cereals. So might be explained the rarity of *zi* in these texts. *bulûg*-S. 70 (37 i) will thus be approximately equivalent to *zi-bulûg*, *ITT* tom. II, 760 i 4.

(ii) *ninda*, bread.

*še-ninda*: 18 pass.; 22 i, ii; 37 ii (school); 71 i 3, 5; 72 i; 86 ii; 88 i 2, 4; 93; 137; 159; 178 i (*še-numun*); 265; 307 iv. Means "barley-bread" rather than "barley for bread," because (a) it is measured not by the *gur* system (except apparently in 86) but by the purely arithmetical numbers (see numerals, system I) suitable for loaves, and (b) it regularly occurs together with other terms denoting bread, not with other terms denoting grain.

There is no mention of *ziz-ninda*, emmer bread, or *gig-ninda*, wheaten bread.

277 ii: S.24-S.83. The latter sign unidentified: the former perhaps = half-loaf (SL 101, 1c), here perhaps broken bread, bread crumbs (measured by *gur*-system).

*ninda-kal*: 32 i; 37 ii (school); 66 i, iii; 71 i; 72 iv; 88 i; 93 pass.; 100; 133; 137 i; 145 i; 195 i; 215 i 2, cf. ii 2; 217 i. *ninda-kal-gal-gal*: 66 iii. *kal* probably means not coarse, heavy or the like, but choice, dear (*agru*). cf. *zi-kal*, *DUG-kal*.

On many tablets *ninda-kal* and *ninda-še* occur together (37, 71, 72, 88, 93, 137). *ninda-kal* is more often mentioned first, but the quantity of *ninda-kal* in the account is rarely the greater. The facts suggest the possibility that *ninda-kal* indicates wheaten bread, or bread containing a proportion of wheat.

*ninda* with S. 51a: 22 pass.; 159 i; 271 ii; 281 i; *ninda* with S.51b: 93 pass.; *ninda* with S. 51c: 72 i; 119 i; 180 i. Meaning or meanings of S. 51a, S. 51b, S. 51c unknown: but from the general evidence and especially from 93 it appears that *ninda-še*, *ninda-kal* and *ninda*-S. 51 make the three principal kinds of bread. 93 deals with the offering of 40 *ninda-še*, 41 *ninda-kal*, and about 23 *ninda*-S. 51. Emmer-bread?

*ne-sag* occurs in connection with *ninda* in 5 iv 5 (? cf. PN 560); 72 (*ne-sag* and *ne-sag-gig*); 93 i 4, ii 13, iii 11, 12, iv 8; *ne-sag-bar* i 6, iv 7; *ne-sag-lú-kú* ii 2; 110, 2; 166 (?); 178 i; 279 i (or PN); 281 ii 1 (?). Other terms designating bread as an oblation or similar: 93 i, *ninda* for the *gá* or *pisan lú*-[ ]; cf. 17 ii *ninda* for the *gá-Lugal-ki-nu-gi*; 93 ii, *ninda* for the *ab*, *é-an* and *ki-gim*; cf. 50 i, ii (for *ab* and *gim*); 93 iv for the *sangu*.

Other places: 37 ii (*ninda-gal-gal*); 44; 52; 53 i, iii; 55; 58; 60; 65 i; 66 iv; 85 ii; 119 i; 120; 149; 178 ii (= *ninda-gál* ?); 180 i; 199 i; 279 i.

*GAR-UD-SI*, 45; *GAR-UD*?, 88 ii; *GAR-UD*-[ ], 180 i: meaning unknown: cf. perhaps *GAR-tam*, SL 597, 310.

(iii) *bulûg* and *bappir* (*bappir*): malt or similar. *bulûg* occurs with *še*: 4 (?); 132; 162 vi 2; 219, 1: 228. With *gûg*: 37 i (cf. RTC 51 ii 13, iv 6: *še-gûg-bulûg*). Alone: 277.

*bappir* with *še*: 64; 162 vi 1; cf. *ibid.* 3-4 *bappir še-sangu*; 200 ii 3; 219, 2 (cf. 3). *DUG-še-bappir*: 200 ii 2. Alone: 37 i (school).

The distinction between *bulûg* and *bappir* is still obscure. Poebel, ZA 39, 146 f. explains *bappir* as mash. Cf. 200 ii 2 (vessel of barley mash?).

(iv) *kás* occurs with *še* in 38, 49 ii, 53 i, 60, 64 ; with *zíz* (thus *ulušin*) in 38, 64. Evidently beer. *kás-sag* in 45 ; 49 i ; 53 i, ii ; 54, i, 3 ; 61 ; 64 (here with *še* and with *zíz*, so a superior variety of beer, not a wine).<sup>1</sup> *kás* with S. 405 : 49 i. *kás-?* : 260 iii. Quality unspecified : 58, 61 ii.

*DUG* also signifies beer, at least in many cases. Like *kás* it occurs with *še* : 32 ii, 107, 132, 162 vi, 200 ii (*še-bappir*) ; once at least with *gig*, wheat : 135 (cf. 212 ii : *DUG-* or *kás-gig*, dark beer, also possible) ; and in *DUG-sag*, analogous to *kás-sag*, in 22 ii, 243. Quality unspecified : 18 iv ; 22 ii 5 ; 59 ii ; 93 ii 4, 6 ; 100 ; 132, 3 ; 133 ; 179 ; 195 ; 199 iii ; 217 ; 307 ii.

If *DUG* and *kás* denote different kinds of beer, presumably *DUG* would signify a lighter quality ; but it is probable that they are virtually equivalent, *kás* denoting the beer as such and *DUG* the pot (of beer). Cf. *JN* 320, 322. It may be observed that *kás* occurs in entries of this kind only on those of our tablets that have expedition-numbers from U. 12510 to U. 12533.

Terms denoting the pot itself may be *dug-gid*, 162 *pass.*, 228 i (numerals of system I), cf. 66 i 5, 8, iv *dug-gid-zadim-DÛ* ; perhaps also *dug-kal*, 28 i, 96 ii, 107 ii, 119 *pass.*, 200, 271 i. But as to the latter term the indications are ambiguous. *DUG-KAL* occurs in vocabularies of a later age as ideogram for a kind of pot (*SL* 322, 39). In our documents on the other hand *kal* appears to be the term that denotes the superior quality of a food-stuff (cf. above *zí-kal*, *ninda-kal*). By analogy *DUG-kal* would indicate either choice beer or (better) choice liquor of another kind, *kurun*, probably date-wine. It is noteworthy that *DUG-kal* is never specified by *še*, *zíz* or *gig*.

Beverages as offerings, etc. : 49 ii, *ne-sag-še-kás* (*šikar niqî*) ; 59 ii, *DUG* : *sangu* ; 93 ii 4, *DUG* : *ab* ; 93 ii 6-7, *DUG-urî* : *é-an* ; 96 ii, *DUG-kal* : *ab*.

#### C. GARDEN VEGETABLES, ETC.,

*gûg*, beans, not in accounts. School-tablet 37 i : *bulûg-gûg* (cf. above on malt). *gûn*, also beans or similar (*SL* 106, 32 and *Nachträge*) probably in 4, with dubious S. 219. In 18 iii 3 probably a product of the bean (peas) is indicated by S. 186 (measured by *sîla* and therefore surely not eggs : cf. *SL* 406 i (d) ).

In description of fields : *gân-SUM* (garlic) : 163 iii ; *AB. GAB. SAR* : 175 ii (cf. list of garden plants, *F. Sch.* 58 v 6) ; *gan-še-SAR* : 160, cf. 359 (cf. *F. Sch.* 58 vi 4 ; *Nik.* 30, i).

#### D. TREES.

(1) S. 134 [= the later *TU.GAB.LIŠ*] is prominent in these documents. (a) *giš-S.* 134 : subject of accounts in 241 (11 times). (b) *giš-mud-S.* 134, with other timber, in 209 (*giš-mud* = poles or similar, *Orient.* 16, 76). (c) S. 134 + *A* (as in the later ideogram) : 193c i, 342 (PN). (d) S. 135 (probably variant of S. 134 + *A*) : 52, 60 (PN). (e) S. 134 with *ga-lu* : 199 i (PN). (f) S. 134 with *ru* : 163 ii (PN).

In *Assyrian Herbal*, pp. 135-138, 261, Campbell Thompson shows that (in the Assyrian period) *giš A.TU.GAB.LIŠ*, *šarbatu*, denotes a resinous tree or shrub,

<sup>1</sup> Confirmation of Poebel's argument (*ZA* 39, 147) that *kás-sag* = *kurunnu* (*SAI* 3490) is erroneous. On the other hand, the interpretation, in the same article, of *kás-sag* as date-wine is also incorrect, at least for our period.

and proposes identification with the gum storbus of Pliny and with storax (*styrax officinalis*). It seems doubtful whether this can be fitted to the early Sumerian data. We have the impression that S. 134 must represent one of the principal kinds of tree and one that was especially in demand for the wood; and this agrees with the evidence of the wood accounts of early Lagash (*cf. Orient*, 16, p. 59: according to *DP* 420, *ibid.* p. 15, this tree was used for ship-building). Moreover S. 135, probably variant of S. 134, introduces a new factor into the problem. If the explanation suggested in the sign list is substantially correct, S. 134-5 originally denoted spreading umbrageous trees generally or a representative species of this class. The later use of the ideogram in another sense (storax?) would mean that it acquired a second value. An hypothesis permitted by our documents is that the sign without *A* had originally a meaning distinct from that of S. 134 + *A*: the latter occurs only in the proper names, and in these the aromatic is appropriate and according to analogy (*cf. Heb. PN šrī and šrw-ia*, both probably for *šōri*, storax or the like). In 199 i the PN adds *ga-lu* instead of *a*, where *ga* may be resin (like Syr. *halbā* and probably Ass. *halbu*, *Herbal* 160).

S. 134-RU in 163 ii makes the name of a third tree, being the origin of the variant ideogram of *zanzaliqu*, identified by Ružička with Persian Lilac (Meissner, *MVAG* 18, 2, p. 26, n. 15).

(2) The other arboreal sign, *gišimmar*, palm, does not occur as name of a tree. As it is natural to suspect that the palm is not unmentioned, *giš-ma-gíd* and *ma-gíd* come into consideration. In 25 i *giš-ma-gíd* occurs in an account of reeds and timber: this agrees well with Deimel's conclusion that *giš-ma-gíd*, though perhaps originally young palm, palm shoot, signifies in the Lagash wood accounts long pole or the like (*Orient.* 16, pp. 57, 75). *ma-gíd* occurs also in the following connections. (a) *PA-ma-gíd* in PN 594, four times; *PA-ma-gíd-si* four times, cited in name-list 595; *ag-ma-gíd*, PN 68. It is probable that *PA-ma-gíd-si*, at least in some instances, is a title, and that the two or three proper names are names of occupation used as or instead of proper names. *Cf. also F. Sch.* 77 iii 9: *nagar-ma-gíd*. Thus the first two terms will mean "overseer of the *ma-gíd*," and *ma-gíd* may here have its primitive meaning of palm trees or palm-saplings. (b) *ma-gíd šà(g)* in 102; 168 vi; 206; 365: all in reference to land: thus "containing palms" (or *šà(g) ma-gíd*; among palms)?<sup>1</sup> *zú-lum*, dates, are not mentioned in the archaic accounts; first in 310 iii (F. period): 2 hides (? = S. 372) of dates.

Products of the date. (a) Date-wine; possibly = *DUG-kal* (above B iv). (b) *lāl*, syrup; in many PN (see S. 343), including *lú-lāl*, probably analagous to the titles *lú-kás* and *lú-geštin*. (c) *a-lāl*, mead (SL 109, 3; emmer mead already in *F. Sch.* 20 Rev. v 2) may perhaps be recognized in PN *lú-a-lāl* and *a-lāl*.

(3) The vine. *geštin-gal-gal*, 209, with other woods. If in lower Sumer the vine was of little value for the grape it may yet have been cultivated for its wood, useful for various implements (*Orient.* 16, p. 58).

<sup>1</sup> Deimel (*Orient.* 16, p. 55) shows reason for thinking that in *Amherst* 50 Rev. *giš-ma* signifies the young palm-tree. The identification would be favourable to the suggested interpretation of (*giš-*)*ma-gíd* in our documents, but it is not necessarily implied. Still less would it be necessary to question the use of *giš-ma* for *tittu*, fig, in later documents.

The PN show, however, that the vine was highly esteemed and that wine was in use. For the vine *cf.* PN. 106, 317, 318, 665. Comparison of PN. 665 *šeš-ib-giš-tin* with PN. 666 *šeš-ib-giš-ti-kalam* (tree of life of the land) is interesting. For wine *cf.* PN. 12, 64, 432, 622. With the last two, *Lú-geštin* and *Sal-geštin*, *cf.* title *lú-geštin-sangu* : 298, 135 bis (?).

The term *a-geštin* occurs as follows. (a) Apparently matter of accounts : 66 i. This would be *a-geštin* = *ṭabātu* (sherbet, etc.<sup>1</sup>). (b) As PN 12. *Cf.* PN 64, *ag-a-geštin*. (c) [ ]-*gán-a-geštin* (preceded by a reference to [lú ?]-*geštin-sangu*) : 135 bis. [ ]-*a-geštin* (here also in connection with land) : 357 iii. *a-geštin* name of an office (vinedresser) ? *Cf.* below, p. 13, fields designated by the office of the tenant ; and the apparent PN *a-geštin* among names of persons to whom fields are appropriated in 226 v, vii ; 356, 1, 4.

226 is headed *gán-eš<sub>6</sub>-tin*.

(4) 209, 2 : 24-*giš-še-ḪI-kisal-aga-gi*. Intelligible as a mixed consignment of *giš-še-ḪI* (SL 367, 195), *giš-kisal* (SL 249, 7), with PN 70b.

(5) Fragmentary : *giš-ku-S*. 218-[ ] : 209, 1 ; [ ]-*gid-a-sar* : 25 ii.

(6) References to wood, unspecified : 25, 3, *giš-tur-tur* ; 25, 241, *gún*, loads (?) ; 67 i, 103 ii, *úr*, trunks (*Orient.* 16, 73) ; 101, *ad*, logs or similar.

(7) *erin*, cedar, not in the old accounts : first in 310 ii (1 *nigin* of cedar).

#### E. REEDS.

*gi-gal-gal*, 25 i. *giš-gi-ninni*, 25 i. *giš-gi-ninni-gal-gal*, 230 (*cf.* *gi-ninni*, SAK 6, h, 2, 7, a religious use ; but here rather for fishing or hunting tackle, the next item preserved being nets). *giš-gi-gíd-úz*, 209. PN 329 *giš-gi-si* ; PN 328 *giš-gi-dug* (*cf.* SL 85, 392b).

*gi-ki* or *ki-gi*, subject of account, 48, probably baskets ; *cf.* *giš-gi-ki* and *é-gi-ki* in documents transcribed in Deimel, *Sum. Gram.*, p. 198 f. *gi-ki-šub*, 48 ii 1, baskets coated with bitumen (*cf.* Br. 1430). *gi-ki* also in 297 ii 2 (school). *Cf.* PN 289.

#### F. SPICES.

Not mentioned in accounts, unless perhaps fragment 11 dealt with *mun* (salt) and *šim* (spice). *šu(!)-me*, 69 ii 4 (school) is perhaps the spice of *Amherst*, No. 8 (*cf.* SL 354, 379).

#### G. METALS.

(1) Copper : 127, *ma-na-urudu*, *ma-na-urudu-zal*, *dug-urudu* ; 252 iii, *ma-na-urudu*. (2) Bronze. The defaced tablet 373 mentions *zabar* (col. i) and distinguishes it from *urudu* (col. ii). 103 : a bronze bucket (see below).

#### H. ARTIFICIAL OBJECTS.

The principal references not yet given are : (1) 101 and 103, dealing with water-machines. 101 : 10-*ad-gul*, 10 logs for irrigation machine. 103 : 1-*gul*, 4 *níg-lal*, *lal-zabar*, 1 [ ], 1 *úr*, 1 irrigation machine, 4 chains and bucket of bronze, 1 [ ], 1 pole. (2) *gu*, cord or thread, subject of account 21 (*gu-kal*, *gu-gíd*,

<sup>1</sup> Or vinegar (Campbell Thompson, *Proc. of the Soc. of Medicine*, XVII, 21, 6).

*gu-tur*). Fragment 129 (school ?) contains the terms *dil-bad-túg*, *sag (?)-tún*, *níg-lal*, perhaps meaning splendid garment, axe (?), and chain. *túg-bar* (251), outer garment (?). (3) S. 129 -*mar*, harness or similar, subject of account 273. Fragment of school tablet 182B preserves *giš-gigir-nun*, earliest reference to two-wheeled (?) chariots (in JN only *mar-gíd-da* occurs).

## J. FIELDS.

About 70 tablets and fragments are concerned with land. They are mostly lists of persons with the quantum of land assigned to each. The same lot is sometimes assigned to two persons (87, 181), the second of whom may be designated *engar*, farmer (108, 109, 168, 356).

(i) General word for field: *gán*, passim. *a-ša* occurs only once, and then together with *gán* (108, iii, v). *a-ša* (field containing water) doubtless had a more special meaning than later. *SUG* occurs in 109 iv, *i-SUG*; 175 i, ii (restore); 236 i, *gán-sar-a-SUG*; cf. *še-kúd-SUG*, 85 ii, iii. It is not clear that marsh or reedbrake are suitable senses in these places: the first concludes a long list of farmlands or similar, the second perhaps gives the origin of some cereals, and the third is related to *še-kúd* (flax ? ?).<sup>1</sup> Of terms with meaning opposite to *a-ša* and *SUG* there are probably two: *gán-e-ku* once, *gán-ga-ki* often. *gán-e-ku* (98 iv) (cf. CT 15, 26, 14) contains perhaps *e* = *levée de la terre* (Thureau-Dangin, RA 1933, p. 24) and *ku* = *nadū*, and may thus be the origin of *eku*, *iku*. *gán-ga-ki* occurs in 140 ii, 206, 208 i, 211, and *ga-ki* in 358 ii, 366 ii. In Gudea Statue I (SAK 86, i, 2, 1) *gán-ga* is antithetic to *gán-íd*, riverine fields. (For theories of *gán-ga* cf. SAK 50, note a; Deimel, *Orient.* 2, p. 28.)

(ii) *gán-al*: 196C; 201 iii; cf. 204: land dug by spade or hoe. Cf. F. Wirts. No. 54: *gán-sar-al-du*. *gán-APIN*, on the other hand, perhaps rather farmed land (juristic sense) than plough land (cf. below). *peš-du* which occurs with *gán-al* in 201 iii, and with reference to land in 167, would seem to indicate land "fat and dug"; but in 177 v, 355 some other interpretation seems to be required: a quality of grain (?) or an occupational name (?).

*šu-tab* with reference to land in 98 iii; 104 iii; 168 vi; 226 i 4, 5; 254, 2 (?); 362 i (*níg-šu-tab* ? context not clear). Cf. *šu-tab* = *umšatu* (aridity ?), CT 19, 4, 27. *gán-kukkú* (black ?): 117, 3, preceded by *gán (?) -babbar* (?).

*ša šub*, 143 iii 8: cf. *ki-šub*, waste land, JN 155 and later.

*ki-bir-NI*, 15 iii (field list): cf. Nik. 31 rev. 3 *gán-e-ki-bir-ra*. *gán-sar-si*: 98 iv 4. *gán-KA*: 227, 3.

(iii) The terms which denote three kinds of tenure in the time of Urukagina (*Orient.* 5, 16 f.) are with slight differences of form already in use. (a) *gán-en*, corresponding to the later *gán-níg-en-na*, i.e., "domain" of the god, serving for the direct support of the temple: 147B; 160; 184 ii; 227; and perhaps 362 i, 365 i; (143 iii 5 ? ?). (b) *gán-kur*<sub>6</sub>, 164, 365; *níg-kur*<sub>6</sub>, 202 iii; *níg-kur*<sub>6</sub>-*kalam*, 163 ii (cf. i); [*kur*<sub>6</sub> (?)]-*kalam-šèr-ra*, 371 iv (cf. i, iii: [ ]-*šèr-ra*); *kur*<sub>6</sub>-*šèr-ra* [ ]

<sup>1</sup> *še* is written here, in each case, in an unusual position, as if to warn the reader that it is a mere determinative. This suggests, what is probable for other reasons (p. 5), that the use of purely graphic determinatives was still uncommon.



*bíl*, 368. These expressions correspond to the later *kur<sub>6</sub>-ra*, according to Deimel "prebends" for the support of the personnel of the temples. *kur<sub>6</sub>-kalam*, food of the land, seems to be the equivalent of *kurmatu* and *kurummatu*. Meaning of *šer-ra* here not known to me. (c) *gán-úru* corresponds to the later *gán-úru-lal*, farmlands. *APIN* occurs oftenest with PN, probably = *engar*, farmer: 104 iv, v; 108 iii; 109 iv.; 140 ii; 168 i, ii 5, 9; 226 v, vii; 356 i, ii; 359; but also with *gán*, prob. = *gán-úru*: 127 v; 161 i; 184 iv; cf. 104 i-iii, 185 iii.

Land is called *gán-Nanna* in 73; 127 iv; 147 iv; 164 i (?); 227; 358. In 147 it is perhaps *enna* land (cf. col. i); in 164 it is *kurra*.

(iv) No other god is mentioned as holding the eminent domain. Fragment 368 has *gán-é-tur*, field of the little temple. Apparently 202 ii has "8 [*gán*] *ká-é-lu-lu*" in a list of benefices. One would be inclined to refer the "Gate of Elulu" to a temple; but in U. 11001 (unpubl., III Dyn.) a list of palmgardens contains the item "1 *gán-ki-gál giš-sar-ká-i-lu-lu*," where the spelling suggests that Ilulu is a PN (possibly that of the first dynasty king of Ur, or that of the king of Agade, written both Elulu and Ilulu). It is possible that in the time of the scribe of U. 11001, when the temple *É-lu-lu* may have disappeared for a thousand years, the Gate of Elulu may have acquired a new interpretation. The preceding entry in U. 11001 is to the palmgarden of the Gate of (d.) Mešlamtae, probably named from a temple.

(v) Endowments of certain offices seem to be mentioned in *gán-uri-gal*, 82, 196C; *gán-nimgir-gal*, 226 v, vii; *gán-a-šà-ukkin-gal*, 108 iii, v. Cf. also 175 i, 2: *gán-S*. 27 [perhaps a title; v. inf. M (77)]; *šu-ig-šà*: 27 iv; [v. inf. M (72)]. All these secular tenures?

27 appears from the subscription to give the lands of the *pa<sub>4</sub>-šeš* of an obscure divinity.

(vi) *gán-bar*: 163 i 4, 5; iii 6, 8; iv 3, 4; 184 *pass.*; 193D 2 (?), 3: land outside. In what sense here? 163 has also in iii 3: *numun* (?) (cancelled?)-*še-bar-bar* (wild barley?).

#### K. RIVERS AND CANALS.

No local watercourse is mentioned. The Tigris is named in PN. 356.

#### L. BUILDINGS.

(i) *AB*. This occurs in the sense of palace or temple, denoting the destination of commodities. Same use at JN (*JN* 372). As at JN there is mention of the *sangu-AB* (29). Whether the *ab* indicates the temple or the civil administration is not clear. In point of fact these may have been identical: the only personage named in relation to the *ab* is the *sangu*, and it seems likely that the *sangu* was also the civil ruler (cf. below, M 66). On the other hand, 93 ii 3-7<sup>1</sup> could be taken as distinguishing the *ab* from the principal temple (fine bread and beer for the *ab*; fine bread and beer for the house of heaven, or of the god, in Ur). The *ab* contained female slaves: 50 ii.

<sup>1</sup> The order here is difficult. It would be, perhaps, equally difficult if *AB* were taken for Uruk and *é-an* for the temple of Uruk. The analogy of 95 i, ii seems to indicate *ab*, palace.

The commodities assigned to the *ab* are the cereals and their products : corn, 95 ; emmer, 29, 179 (?) ; wheat (?), 29 ; meal, 29 ; bread, 50 ; beer, 93 ii, 96. Cf. also *gur-ab* : 199 iv, 224 iv.

(ii) *é-al* : 23 i ; *é-al-sag-gál* : 235 ii. *é-AN* : 93 ii. *é-di-sag-gál* : 235 iii. *é.EZEN.SUKAL* : 112 ii (temple ? v. *inf.* Feasts). *é-ga* : 88 i ; 125 ; 212 ii ; *é-ga-ga* : 23 ii ; *é-ga-sag-gál* : 235 iii ; cf. *é-ga(-gi)* : 166. *é-gal* : 112 v, rev. ; 235 iii ; 349 iii ; (and perhaps in seal-impression, 1). *é-ki-gar-sag-gál* : 235 ii ; cf. *ibid. ki-gar-ra-sag-gál* ; [ *k* ] i (?) -*gar-ra-da* : 310 iii, 1 (later) ; cf. also *ki-gar-gi* : 18 iv (?). *é-kur-S.* 235 : 112 ii. *é-lu-lu* : 202 ii. *é-mes<sup>1</sup>-sag-gál* : 138 + 235 iii 1. *é-nad* : 23 i. *é-NI-a-sag-gál* : 235 iii. *é-ra* : 23 i 2, 4 ; *é-ra-sag-gál* : 138 ii. *é-sag-gál* : 23 (i), ii ; 235 iv, v.<sup>2</sup> *é-tur* : 368. *é-uri* : 23 i. *é-zi* (?) -*da* (?) : 63 v (doubtful and perhaps PN) ; *é* (?) -*zi* (?) : 339 ii.

(iii) *gá* (or *pisan*) : 23 i, ii ; 235 pass. *gá-é-uri* : 23 i ; 235 iii. *gá-la* : 128 iv. *gá-lugal-ki-nu-gi* : 17 ii. *ganun-bàd-kal* : 255 i. *ganun-bar-ga*(?) : 223, 3.

(iv) Nearly all the establishments in lists i-iii seem to be other than temples (*é-AN* is perhaps the single wholly unambiguous temple-name). On the other hand, the PN, if they reflect contemporary realities, seem to indicate the existence of numerous temples in the primitive city. Is this evidence to be accepted at its face value ? A few of the names may be equivalents (as *é-nun*, *é-nun-si*) ; and it could be supposed that a few PN which contain *é* with some trite epithet (as *é-dùg*, *é-si*) give rather a private appellation than the distinctive title of the temple in which the name-giver was interested : but after all such allowances are made the PN do seem to give evidence of the existence of more than a score of temples in the Ur of our archaic period.

PN contain the following (for references cf. sign list 365) : *é-ab-ba*, *é-BIL-nu-du*, *é-BIL-si*, *é-bíl* and *é-giš-bíl*, *é-bu*(?) -*lu*, *é-dar*, *é-dùg*, *é-gab-si*, *é-gal*, *é-gíd*, *é-IGI* + *BUR*, *é-izi-gar-si*, *é-kalam-si*, *é-lal*, *é-lu-lu*, *é-me-lu*, *é-nun*, *é-nun-si*, *é-sag-dùg*, *é-sal*, *é-si*, *é-si-alam-gal-gal*, *é-ša<sub>6</sub>*, *é-ti*, *é-tin-nu-ud*, *é-zi(-da)*, *é-zì-kù*, *é-S.* 301- [ ] -*su* ; and (cf. sign list 317 f.) *gá-bára-si*, *gá-diri*, *gá-si*, *gá-za-za*, *ganun-si*.

Apart from *é-nun* (and *é-gal*, *é-sal*) our lists of public buildings and temples contain not one verbal coincidence with the names of buildings in the monumental inscriptions of Ur of the dynastic age. The interval must have been considerable.

On the other hand, community of culture with F. and JN is illustrated by the following (p. refers to *F. Wirts.*, Introd. ; JN to *JN* 392) : *é-al-la* (p. 28), *é-bíl* (p. 22), *é-dar* (JN), *é-dùg-ga* (p. 28), *é-kalam* (p. 34), *é-kur* (JN), *é-mes* (p. 29 ; JN ?), *é-nun* (p. 22), *é-nun-si* (p. 40), *é-si* (p. 40), *é-ša<sub>6</sub>* (p. 30), *é-zi* (p. 29).

#### M. OCCUPATIONS.

It is often difficult to distinguish occupational names from proper names. This is partly due to the imperfect schematism of the documents : titles sometimes follow the PN in a separate " case," and sometimes both are included in the same case. Further, one has the impression that sometimes occupational names take

<sup>1</sup> = *é-dub* ? (Cf. *MES* = *dub*, JN 404 ; but note Fara PN *é-mes*).

<sup>2</sup> This shows that *sag-gál* is epithet to *é* in the other cases. Cf. also Chiera, *PBS.* XI 3, p. 206, No. 95 : *lu-é-sag-gál*.

the place of PN in the accounts: indeed, in the present state of knowledge concerning the principles of the earliest Sumerian nomenclature, which is the earliest recorded nomenclature of the human race, it seems somewhat doubtful whether there was always a definite distinction between the name of a man's occupation and his ordinary personal name. In the following index, therefore, there are entered a certain number of terms that appear also (with a query) in the list of PN.

- (1) *a-zu* (*asū*, physician, *bārū*, diviner): 289 ii.
- (1b) *ABRIG*: PN 56b. (= *āb-NUN.DU*: office related, verbally at least, to cattle: cf. the cult of *ki-ABRIG*, ZA 39, 256).
- (2) *azu* (S. 341): cf. PN 206; perhaps title in 113B i.
- (3) *bulūg-ma*<sub>4</sub> (maltster): 286 i (PN 225).
- (4) *dam-dingir*: perhaps title combined with PN 373.
- (5) *dam(?) -nu-gíg* (cf. *R. Cem.*, p. 312): perhaps title combined with PN in 345 iii. Cf. below (37). Cf. sign list 173.
- (6) *DÍM-gal* (master builder?): PN 224. Cf. *F. Wirts.* p. 6.\*
- (7) *edin-bar*: 34 i, ii; 62 ii; 74 ii; 91; 112 iii end; 143 iii; 339 i. In 91 and 112 with *sangu*: cf. *F. Sch.* 29 i 12. Cf. PN 281. See on Slaves p. 18.
- (8) *engar* (farmer): above, J (iii). Also as PN 302.
- (9) *en-gi-me*: 300 ii; *en-gi-me-gúg*: 281 iii; *en-gi-gúg-PA-MU* (?): 67 i 4. Cook, chief cook. Cf. *en-me-gi* = *nuḥatimmu* (SAK 1860); *gúg* = *marāsu* (Br. 6917); *PA-MU*, *F. Wirts.* 71, 4.
- (9b) *en-kul-ab-(si)*: PN 292f.
- (10) *ešsad* (?) -*uru*: 356 i (*zag-ḫa-la* is the original of *zag-ḫa*, *ešsad*?). Inspector of fisheries or similar.
- (11) *gāl-gal*: 14 iii (school); *gāl + a*: 297 iii (school). *gāl* perhaps title in frag. 348 ii 1. Cf. PN 310-313. *gāl* here = *manzāzu* in the sense of chamberlain, courtier? In the PN the reference is apparently to women. With PN 311 cf. *F. Sch.* 57 i 6, where the same term follows feminine titles.
- (12) *gala* (*kalū*, exorcist): 352 i.
- (12b) *gam-gam* (cf. *SL* 362, 37): PN 314 (cf. PN 695).
- (13) *gú-gal-gal*: 112 i 6, 10; v 4, 17.
- (14) *gúg-ab*: 34 i 2. Apparently title according to the scheme: cf. *gúg* above (9), *ab* below (15b), (17), (21).
- (15) *ig-du*<sub>8</sub> (doorkeeper): 297 iii (school).
- (15b) *íl* (?) [= S. 412]-*ab*: 18 ii 2, 6; cf. 353 i; *íl* (?) -*ab*<sub>4</sub> [UNU]: 159 ii; *íl* (?) -*gal* with PN 371. Cf. *íl*, *F. Wirts.* p. 6\*.
- (16) *KA-šakán*: PN 384.
- (17) *ka<sub>4</sub>-ab*: 10 ii. Reading very uncertain, but cf. *R. Cem.* p. 314, n. 3; *F. Wirts.* 9, 10.
- (17b) *ka<sub>4</sub>-(d.) ninni*: 112 v (title?).
- (17c) *ka<sub>4</sub>-gal*: 299 i (school).
- (18) *ka<sub>4</sub>-[šu]-du*<sub>8</sub> (cupbearer): 112 ii end.
- (19) *kin-nir-a-abzu*: 112 ii (title?).
- (20) *kin-ti* (craftsman): PN 400.
- (21) *lagar* (S. 220), servant, perhaps in frag. 212 i 1: *lagar-sangu*. Cf. JN No. 139 i 4 (*lagar-ab*). PN 414 seems to give *lagar-dàg-na-zag* (! ?), where *dàg-na-zag* would be *pestle* (cf. Br. 1633). Cf. also PN 117.

(22) *lu-dub* : PN 428. It is remarkable that *dub-sar*, very frequent in Fara, never occurs in these documents (unless in school text 297 ii 5 ??). *lu-dub* could be an equivalent, but occurs only once, and the value *dub* seems not altogether certain (cf. S. 297).

(23) *lu-ensi* (oracle-priest) : PN 431.

(24) *lugal* : only 205B *lug[al]-lagaš*, and 162 vii *sangu-lugal*. Cf. (66).

(25) *lu-geštin* : see above D (3).

(26) *lu-gim* : PN 435. Cf. *PA-gim*.

(27) *lu-gud* (?) -*še* (?) : PN 433 (cow man). Cf. *PA-gud*.

(28) *lu-kás* (?) -*sangu* : 349 iii.

(29) *lukur* (hierodule) : 89 ii.

(30) *lukur-zi-nanna* : 348 iv. Cf. (65).

(31) *lu-lál*, (*lu-a-lál*) : cf. above D (2).

(32) *MU* (*nuhatimmu*, cook) : 17 i (unless part of PN).

(33) *nagar* (carpenter) : fragment 180 ; 366 ii ; U. 14896.

(34) *ne-sag* : generally = offering ; occasionally title or PN (cf. PN 559, 560).

(35) *nimgir*, (S. 109) (steward) : 226 v, vii ; cf. PN 569. Perhaps in title S. 110-gal : 13 ii.

(35b) *NITA-UD* (cf. SAK 68, 4, 2) : PN 581 ; 112 v 12 (place).

(36) *nu-banda* (overseer) : 16 i ; 66 iii 2, 5, 6 ; 85 ii ; 371 i, ii, iii ; *nu-banda-é-gal* : 112 v 16 and rev. ; *nu-ba[nda ?]-u[ru ?]* : 163 iii 10.

(37) *nu-gíg* : probably title united to PN *ama-(d)*. *im[-gíg]* in 345 i 3, thus answering to (5).

(38) *nu-sar* (gardener) : 17 i ; 221 i.

(39) *nu-še-GUR* : PN 656.

(40) *nu-S.277* : subscription to 364. Meaning unknown (if S. 277 = ram [cf. SL 122b, 1] the term could mean sheep-farmer or the like).

(41) *NUN-ME* : PN 584 (but see this).

(42) *PA* (*ugula ? akil ?*) : 371 pass., 248 iii 1.

(43) *PA-anšu* (master of the asses) : 65 ii.

(44) *PA-DUN.GI* (master of the stud) : 343 i (if not PN 681 with title *PA*).

(45) *PA-gim* (superintendent of weights ?) : 9 i ; 112 iv.

(46) *PA-gud* (cowherd) : PN. 591.

(47) *PA-ku<sub>6</sub>* (superintendent of fish) : 9 ii.

(48) *PA-ma-gíd* : see above D (2).

(49) *PA-níg-ga* (treasurer or the like) : 235 v, vi.

(50) *PA-níg* (?) -*gún* (?), with similar meaning, 343 i 2 (but very doubtful ; PN with *PA* possible).

(51) *PA.TE-si-gal* with *gi* (?) : fragment 35 ii.

(52) *PA-uri* : probably name of office in 9 i. Elsewhere *PA-uri-si* could be PN (cf. PN 599), but is probably official name used instead of PN. Cf. PN 33. It seems from the terms that follow (especially (56)) that *PA*, *PA . . . si* and *PA.TE-si* are practically equivalent.

(53) *PA-zararma* (Larsa) : 112 v 7.

(54) *PA-S. 161-S. 413-ki* : 9 ii ; 34 iii ; 235 v, vi. Here again *PA* with place-name. The place name alone occurs in 112 iv bottom. [235 adds *me* to the title ?]

- (55) *PA-S.162-ki* : 348 iii. Cf. below P (16) : S. 162 = *az* ?
- (56) *PA-S. 303* : 235 ii ; *PA-S. 303 -si* : 188 ; 352 ii. (Cf. 371 iv 5.) Cf. *F. Sch.* p. 27, vii 9f. *nig-PA-TE-si-S.303*.
- (57) *pa<sub>4</sub> (PAP)-šeš* (*pašišu*, priest) : 27 iv. With divine name (cf. below O (2)).
- (58) *parim* : in PN 603.
- (58b) *peš-du* : cf. above J (ii).
- (59) *sag-tùn* : 110 i ; 129 (??) ; 166 ; 170 ii ; 215 i (PN ?) ; 297 iii (school). Cf. PN 69. Probably not *Wägemeister* (cf. *F. Wirts.* p. 7\* ; *SL* 115, 303) ; the sign (S. 280, probably axe) is quite distinct in our documents from that which presumably was ideogram of *weigh* (S. 339). Perhaps slaughterer. Occurs often in connection with *ne-sag*. For superintendent of weights cf. (45) above.
- (60) *saḥar* (shield bearer ?) : title or PN in 246 ii. (Title in F., *pass.*)
- (61) *sal-alam*, *sal-alam-ag* (image maker) : PN 618 f. (cf. in early Lagash *lu-alam*, title : *AW* 16, ii ; *TSA* 13, iv).
- (62) *sal-geštin* : see D (3).
- (63) *sal-kás* : PN 627 (alewife).
- (64) *sal-NU* in PN 312 (cf. under *gal-gál* above) : perhaps *tamītu*, spinner (cf. *SAI* 1149).
- (65) *sal-zi-zi-nanna* : 9 i. Another variant of the term that enters into the title *zirru* : cf. *R. Inscr.* 105 ; PN 630 *sal-zi* ; *F. Sch.* 57 i 3f. *sal-zi-nanna*, *sal-zi-utu*, and above (30) *lukur-zi-nanna*. Comparison with the present *zi-zi* (= *našū*, etc.) suggests that *zi* in these terms means "exalted."
- (66) *sangu* (priest) : with PN in 112 v 13 ; 343 iii ; 363 i. Elsewhere the *sangu* (in a pre-eminent sense ?) is recipient of barley, wheat, meal, bread and beer : *še-sangu*, *še-sangu-lugal*, 162 vi, vii ; *gig(?)* and *gig(?)*-*an sangu-ab*, 29 ii ; with *gig-S.70*, 190 i ; with *ninda-kal*, 93 iv ; with *DUG*, 59 ii. Further : *lu-geštin-sangu*, 298 ; *lu-kás(?)*-*sangu*, 349 iii ; *edin-bar-sangu*, 91, 112 iii ; *lagar(?)*-*sangu*, 212 i. If these transcriptions are correct we have the following consistent data ; the *sangu* is the principal recipient of the staple products ; he occupies the *ab*, the residence *par excellence*, at the head of a considerable establishment ; and he is the representative of a *lugal*. As noted above (24) the only other mention of a *lugal* is that of the *lugal-lagaš*. Thus, if history may be extracted from these casual data, there was at this time no king of Ur ; the king of Lagash was suzerain ; and the *sangu* was his regent. It is noteworthy that just such a régime existed many centuries later when, according to *Royal Inscriptions* 103, 104, 297, the priest Enannatum was regent for foreign kings.
- (67) *simug* (S. 93 and 94) (smith). *simug-gal* probably title with PN 640, 759 ; *simug* as PN 644. See also 44 ; 52.
- (68) *sir* (singer ??), if this addition to the usual PN *lum-ma* in 98 iii is title. (Or *EZEN-lum-ma* and *lum-ma* are homœonymous PN ; cf. p. 27.)
- (69) *sukal* (messenger, etc.) : PN 649.
- (70) *sukal-gal-zag-a* ; 343 ii.
- (70b) *sukal-kúd* : 14 i ; 299 i (school).
- (71) *šu-gal* (potter) : 373 ii (here of copper).
- (72) *šu-ig* : 212 iii (and apparently *šu-ig šà*, concerning a field, 27 iv). Door-keeper ? Cf. perhaps (in Hittite) *LÚ-ŠU-IG HAL(?)* [*-ZI LU*]*GAL(?)* (or *šu-gál* : cf. Friedrich, *MVAG* 34, 1, pp. 132, 162).

- (73) *šu-ku*<sub>6</sub> (fisher) : 5 i ; 163 ii.  
 (74) *ukkin-gal* (officer (military ?)) : 11 i (?) ; 68B ii ; 108 iii, v ; 112 v 10 ; 299 i (school). PN 705.  
 (75) *uku* (S. 278 : officer (military ?)) : 92 ii 2, 3 (title ?) ; *uku-gal* : 264 i = 299 i (school). PN 706, 707 : *uku-gal*, *uku-tur*.  
 (76) *uri-gal* (official of the harem ? cf. *R. Cem.* 312, n. 1 ; *F. Sch.* 29 i 2, following *nimgir-gal*, chief steward) : 82 ; 196C (or *lu-uri-gal*) ; cf. 23 i *é-uri*. PN 450, 753, 755.  
 (77) *S. 27* : cf. above J (v) ; usually PN (772) ; 260 i, *S. 27-gal*, perhaps title.  
 (78) *S. 55-á-mušen* : 18 ii 4. Apparently a person in charge of "eagles." (*S. 55* probably = *F. 50*, which is related to domesticated animals in *F. Sch.* 81.)  
 (78b) *S. 106-gal* : 264 i (school) ; *S. 106-ki* : 112 v 15 (place). (cf. *F. Sch.* 18 iv 13, 23 ; *SL* 449, 165).  
 (79) *S. 129-mar-da* (driver or similar) : PN 780.  
 (79b) *S. 181* : 18 iv 5 ; cf. ii 10 (caulker ?).  
 (80) *S. 279* : usually as PN (794) ; in 179 perhaps title ; 300 ii (school) : *S. 279-gal*.

## SLAVES.

*arad* occurs only in 259, and PN 205. *gim* in 259, and 50 ii, 93 ii (of temple or palace women). Another sign which suggests persons of foreign origin is *edin-bar* (above (7)). *edin* = *šeru*, and *bar* = *šeru* : thus (since the word is certainly a personal designation) man of the desert. Later texts use *edin* to denote a servant or similar (Langdon, *PBS XII* 1, p. 34, n. 2 ; cf. *SL* 168, 10) and this is surely the same word. (The transitional stage is represented in *F.* : *edin* and (as PN) *edin-bar*.) It seems to follow that the *edin-bar* was a man of the desert who had taken service or was enslaved in Sumer. Cf. *mar-tu*. The names of *edin-bar* are : *gi-gi*, *diri*, *sag*, *ku-ku*, *amar-sig-šub*, and *kúš*.

## N. FEASTS.

No month names occur in these oldest texts. Apparently the names of the feasts supplied the place of month names. 192 + 131 (join) is a fragmentary list of words beginning with *EZEN* : probably school tablet of names of feasts. Among these are *ezen-ĤAR-SÍLA* (192) and *ezen- [ ]-ĤAR* (131). *ezen-ĤAR* also on fragment 251, probably also school text. 22 i, account, enters a quantum of barley for *ezen-ĤAR-SÍLA* ; 88 iii a quantum of meal for *ezen-ĤAR* ; U. 18372, *še-kú* for *ezen-ĤAR*. The feast is not otherwise known. It was presumably one of the principal.

192, 2 : *ezen-kal*. Also unidentified,

131, 3 : [*ezen-*] *gan-gan*. Cf. ninth Nippurian month *itu-gan-gan-è*.

Cf. also 112 ii 2 *EZEN.É.SUKAL* (feast, temple or person ?) ; PN 170 ; PN 303 *ezen-gir*<sub>5</sub> (feast of runners ?).

The account 80 is headed *udu-ur*<sub>4</sub>, sheep shearing. Cf. presargonic month *itu-udu-ur*<sub>4</sub>-*ra-ka*. 372 i : *ud-ezen*, feast day.

O. RELIGION AND GODS.

(1) For offerings of animals, see above, A ; *amar-še* or *sizkur* with *ru* (*šarāku*) : 156 i ; *ne-sag*, of bread, above B (2) ii ; of drink, B (2) iv ; perhaps of fish, 19 ii 4 ; *ru*, of bread and beer, 119 i. Temple lands, temples, priesthood, feasts : above, I, L, M, N.

(2) Names of gods with determinative occur principally on a few school tablets and in PN. With due reserve as to the transcription adopted for some of the latter the following references may be given :—

- (d.) *alim-ma* : PN 150.
- (d.) *ama-gan*-[ ] : 105 i.
- (d.) *balag-sir-ir-ša-tin* : PN 227 [or (d.) *BALAG-ša* = (d.) *lumša* ; but cf. PN 345].
- (d.) *balag-sir-ŠE-nu-zu* : PN 151.
- (d.) *bāra*-[ ] : PN 228 (cf. Suppl. 23) ; cf. PN 729.
- (d.) *bāra* : 105 i.
- (d.) *BIL* (*gibil*) : PN 152.
- (d.) *dun*<sub>4</sub> : in *nom. loc.* 112 i 4, iv 7, 11. Cf. PN 729.
- (d.) *en-abzu-lah<sub>4</sub>-nun* : PN 230.
- (d.) *gud* : PN 107 (or *gud-an*), 720.
- (d.) *ib* : PN 153, 232, 392 ; direct reference : 345 ii 2, 4.
- (d.) *ib* or *tum* : PN 154, 606.
- (d.) *igi-bar* : PN 233.
- (d.) *im-gig* : PN 234, 463 ; cf. 88. Without *d.* in PN 371.
- (d.) *KAL* (*lamma*) : PN 155, 721. Without *d.* : PN 420. Cf. *alad* without *d.* in PN 146.
- (d.) *kūš* : PN 235 (see there).
- (d.) *la-a* : = PN 236 (see there).
- (d.) *la-ma* : = PN 237 (so ?).
- (d.) *la-MAL* : = PN 238 (so ?).
- (d.?) *-lab* (?) *-ba* (?) : PN 239 ; PN 413 without *d.*
- (d.) *lahar* : PN 240.
- (d.) *ma-nu-nun* : 105 i ; (d.) *ma-nu* : PN 560.
- (d.) *nam-šub* : = PN 241 (so ?).
- (d.) *nidaba* : PN 156, 722 ; (without *d.* : PN 130, 446, 511).
- (d.) *nin-ab* [ ] (?) : PN 242.
- (d.) *nin-al*[*am* ?] : 105 i.
- (d.) *nin-dun*<sub>4</sub> : PN 723.
- (d.) *nin-gal* : PN 243, 724.
- (d.) *nin-ĜU-ĜU*-[ ] : 105 ii.
- (d.) *nin-men* : 283 iii.
- (d.) *nin-sar* : PN 244.
- (d.) *nin-urī* : 105 i.
- (d.) *nin-uru* : 105 ii.
- (d.) *nin-S.* 127 : PN 726 (*nin-bar-bar* ?).

(*d.*) *ninni* : PN 245, 246, 248, 249, 607, 727 ; *d. ninni-ka-imin* (cf. *RA* xx 98, v 26) : PN 247. *ka<sub>4</sub>-d. ninni* : 112 v (title ?). *ninni* without *d.* : PN 131, 578 ; *ninni-kur* (cf. *F. Sch.* 7 viii 22 ; 18 iv 13) : PN 187.

(*d.*) *PA* : PN 157.

(*d.*) *še-nir-da* : PN 728.

(*d.*) *šu-gi* : PN 215 (?).

(*d.*) *UD.SAL.HU* (cf. *F. Sch.* 7 vii 16) : 27 iv bottom.

(*d.*) *za* : PN 250, 252 (so ? cf. Huber, p. 181 ; also *za-ma* in PN 352, 760, 775 probably = *d. za-ma*, *F. Sch.* 63 vii 13).

(*d.*) *S. 153* : PN 158.

(*d.*) *S. 166*-[ ] : 105 ii.

(*d.*) *S. 403* : PN 159, 253 : (without *d.* : PN 804).

(3) Without determinative. (i) *nanna* is invariably written without determinative (references in sign list : *S. 12*), probably for the simple reason that there was no ambiguity (see below).

(ii) Names of gods in the PN (*ab-Ú*, PN 55 ; *en-ki-gi* [cf. *Panth.* 957], PN 289 ; *nin-tun-unu*, PN 576, etc.), but there are too many obscurities for an index of these.

An offering to *Lugal-ki-nu-gi* : 17 iii.

(iii) A remarkable feature of our documents is the extreme frequency of PN containing *ama* (PN 76-144). Probably all of these refer to the divine mother, and many at least are simply appellations of the goddess. The names beginning with *lugal* (PN 458-492) are quite analogous : and some of those beginning with *en* (PN 282-300) are of the same kind. All these names are written without the determinative.

It seems that at this time the determinative was used (in other than school texts) only with terms and signs that did not of themselves denote divinity, and in general to avoid obscurity. Descriptive appellations of the gods needed none.

In the early language *ama* plays the part of the later *nin*. In these documents it is the ordinary feminine counterpart to *lugal*. Compare

<i>Ama-alam.</i>	<i>Lugal-alam.</i>
<i>Ama-bara-si.</i>	<i>Lugal-bara-si.</i>
<i>Ama-diri.</i>	<i>Lugal-diri.</i>
<i>Ama-é-nun-si.</i>	<i>Lugal-é-nun-si.</i>
<i>Ama-gír-gal.</i>	<i>Lugal-gír-gal.</i>
<i>Ama-me-si.</i>	<i>Lugal-me-si.</i>
<i>Ama-uru-si.</i>	<i>Lugal-uru-si.</i>

There occur a few examples of *nin*-names which duplicate *ama*-names, but all such (in the archaic period) are from school tablets. It would seem that *nin* was coming into use in the contemporary language, but an older tradition still governed the nomenclature.

In the nomenclature of Fara the relative frequency of *ama* and *nin* is reversed.

(iv) Names of temples in PN. The PN containing *é* may be classified thus :

(a) *é* is part of the appellation of a divinity, *ama*, *lugal* or *en* (PN 93-98, 465-467, 286, 288) ; (b) in the genitive after *a*, *amar* or *lú* (PN 7-9, 48, 162-167, 429-430) ;



(c) the temple name is used as PN without addition (PN 261-269, 271-280, 505-506, 621). There seems to be no evidence that any such names in our period imply the virtual deification of the temples. Evidently names of class (b) may quite simply indicate origin, habitation, status, etc., and those of class (c) can have the same meaning. That these names may denote origin is suggested by PN 270, *é-nun-si-mud*, doubtless for *é-nun-si-ta-mud*: cf. *F. Wirts.* p. 20\*, *ab-ta-mud*, palace-born, and the instructive forms, p. 31\*, *en-abzu*, *en-abzu-mud*, *en-abzu-ta-mud*.

(v) There are few instances of *an* = the personal god of heaven. This sense is probable in *é-AN* (above L (ii), but cf. L (i)). In PN in which *an* is transcribed (see S. 6) the personal sense is improbable, except perhaps in *amar-an*.

(4) Comparison with JN (cf. *JN*, Intr., p. vii). *AN* occurs in JN as follows: *a-é-tud-an-ki* (so? cf. on PN 139b), 12 ii 2; *en-šu-me-AN*, 96 iv, 97 i, 43 i (?); *AN-mer*, 49 i; *AN.UB.* 76 i; *AN-ka*, 174; *AN-en-ki*, 12 rev. iv 4, cf. 71A i; *AN-ninni*, 12 rev. iii, iv; 14 rev.; 73 rev. i; *AN-lamma*, 31 rev. ii 8a; *AN-im* (?), 135 i. The evidence for the supreme god An seems therefore to be slight, and the pantheon is fairly well developed. In these respects the theology differs little from that of the immediately succeeding period at Ur. On the other hand, Enlil and Enki, both of whom appear in JN, are absent from our documents. The absence of the latter name is very surprising. The deficiency is perhaps supplied by the numerous PN containing *abzu* (e.g. PN 147, 230, 282).

(5) Prominence of the goddesses. The theophorous names containing *ama* exceed those containing *lugal* in the proportion of 60:40. In the list of gods (above (2)), if animals and things be excepted, nearly every intelligible name is that of a goddess. The coincidence of this religion with the early agricultural epoch is, perhaps, important: the *ama*- and the *amar*- names (p. 6) appear to be coherent indications of a characteristic culture.

(6) Chronological. Among the numerous names of the mother goddess are hardly any that were in vogue in the dynastic period (cf. *R. Insc.*, Index). Damgal-nun and Ninhursag, prominent in the first dynasty, have not yet appeared. They duly appear, together with Dingir Maḥ and Nintud, in our Supplement (Suppl. 13 i; 37 (?); 14 ii; 14 v; 12 i).

In rather surprising agreement with the tradition which assigned Gilgames and Dumuzi to the first dynasty of Uruk, neither of these names occur in the archaic tablets. The first instances at Ur date from a period that must approximate to Uruk I (Gilgames in *R. Cem.*, p. 316; Dumuzi in this book, Supp., 18, 25).

## P. PLACES.

- (1) *adab*: 323, 330 sealings; PN 25.
- (2) *BĀD* + *NIMGIR* [read *bād-nimgir*? cf. *bād-tibira*]: in title (M 56).
- (3) (*d.*) *dun-ki*: 112 i 4, iv 7, 11.
- (4) *ka-iš*: PN 378 (cf. *ka-iš-ki*, SL 15, 178).
- (5) *kèš*: 323, 330 (sealings).
- (6) *ki-áb-NUN.DU*: 112 i 12. For various forms of this name cf. Zimmern, *ZA* 39, 256, reading *ki-abrig*. Cf. also *F. Sch.* 57 viii 9f. Here as in Langdon, *BE* 31, No. 18, 7. Cf. PN 56b.

- (7) *kul-ab*, *kul-ab*<sub>4</sub>: PN 292f., 408.
- (8) *lagaš*: 205; 319 (sealing) (??).
- (9) *larsa*: 317, 328, 332, 333 (sealings); PN 792; title, M 53.
- (10) *NITA-UD-ki*: 112 v 12. Probably, like No. 6 and No. 14, *ki*+occupation-name (title, M35b). [Written *UD-NITA*, which is very like a later writing of *úhu* (Akšak), *REC* Suppl. 235; but a connection is hardly possible (unless by "contamination")].
- (11) *SUG-ti*: 112 iii mid.
- (12) *šubaru*: 112 iii mid. (*HA* !-A); v 6 (*A-HA* !); cf. PN 758.
- (13) *urí*: see sign list 14.
- (14) *S. 106-ki*: 112 v 15 (cf. titles, M 78b).
- (15) *S. 161-S. 413-ki*: title, M 54; 112 iv bottom.
- (16) *S. 162-ki*: title, M 55. Probably = *uru-az-ki* (SL 131, 6).

The names transcribed with final *ki* should perhaps have initial *ki*, and anyway it is unlikely that *ki* is merely determinative; for (a) *ki* in No. 6 is known to be initial and (b) all the well-known city-ideograms are written without determinative. Thus the use of *ki* would be similar to that of *dingir*, being written only when the name would otherwise be incomplete or ambiguous.

Probably also U. 14896, like so many of the seal-impressions of this type, contains names of places. The first two cases in each row (in the order adopted by Legrain) end with a probable *ki*, and the last cases in each row (which may be continuous with the first) could also refer to localities.

Note (1)—Uruk is probably not mentioned (cf. above L (1) note). This agrees with the tradition in the King List: that Uruk was not built before the dynastic period. Kulab seems to take its place in these texts. Cf. tradition in the King List: Gilgames *en-kulab* before being king of Uruk.

(2) Eridu, the nearest important city to Ur in later times, is not mentioned. *Šubaru* probably takes its place in these texts. Similarly, *Šubaru* takes the place of *Eridu* in one form of the prediluvian King List. (Cf. *Orient.*, Nov. Ser. I, p. 235 n.)

## VI. LANGUAGE.

The writing being almost wholly ideographic, there are scarcely any indications of the grammar of the spoken language. A verbal prefix occurs in *ni-túm*, 7. In the field documents 104 v, 111, 122, 167, 184 iii, *a-gíd* (written *GID-A*) perhaps corresponds approximately to *mu-gíd*, measured, of the Lagash field documents (*Orient.* 4, 1 to 31). The Fara documents contain occasionally a verbal form exemplified by *an-na-sum*, *an-na-ba*, which Deimel, *F. Wirts.*, p. 4\*, equates to the Lagash form *e-na-sum*. This theoretic prefix *a-* seems to make its appearance in *a-gíd*. The nunation either has not developed or was not yet written. Cf. also *a-tag*<sub>4</sub>: 203 i and p. 6. Phonetic complements (to genitive or adjective) are found with words ending in b, g, d, and l, m, n, r (references in sign list under *ba*, *ga*, *da*, etc.). There is no probable example of phonetic complement to the casus rectus.

Some differences from the vocabulary of the later language are perceptible. An adjective *si* is extraordinarily common, occurring in 80 or 90 PN (see S. 30). On the other hand, *maḥ*, with one doubtful exception, is never used. Contrast the

many later temple names containing *mah*, as *é-mah*, *é-* or *gá-nun-mah*, with our list of names containing *-si*, as *é-si*, *é-* and *ganun-si* (p. 14).

Many tablets contain a centesimal numeration like that of JN. When first a small number of JN tablets came to light it was supposed that the non-sexagesimal numeration indicated a non-Sumerian population and language (*RA* 1927, p. 29), but fuller information suggested that it indicated merely a special metrology for, e.g., grain (Thureau-Dangin, *RA* 1932, p. 23). This solution is doubtless correct.

## SUPPLEMENT.

(A) 1 to 5. Tablets and fragments from the upper part of the pit S.W. of the Cemetery (*R. Cem.*, p. 224 ; Pl. 272). Tablets found here should, if not intrusive, be at latest contemporary with the Royal Cemetery (*cf. R. Cem.*, p. 225) and so of the period Fara-First Dynasty (*cf. R. Cem.*, Ch. XVI). The ill-preserved No. 1 is not unlikely to belong to this period. No. 2 has clear characteristics of the Fara period (proper names, signs, arrangement of signs). No. 4 is older (*cf. ii 1 : ninda*). No. 3 and No. 5 are apparently later (intrusive ?).

(B) 6 to 12. Another group having chronological interest. It consists of all the tablets and fragments found, according to our records, in the strata SIS I and II that mark the upper limit of the Royal Cemetery. According to *R. Cem.*, pp. 220-222, these should belong approximately to the period of the First Dynasty.

We have for comparison only one complete clay tablet definitely dated to this dynasty, that of A-an-ni-pad-da, *Al-'Ubaid*, Pl. XLI, U. 26. No. 6 has a general resemblance to this tablet ; and it happens to be headed Bār-an-ni-pad-da. Nos. 7-12, which may probably be regarded as homogeneous, show less similarity to U.26 : but as the writing is post-Fara (evident) and pre-Sargonic (*šu, šu-nigin, da*) and the tablets differ in general appearance from those of early Lagash a date between Fara and early Lagash (near to Ur I) is reasonable ; and with such a date agree the proper names, which may be paralleled in Fara and in early Lagash.

(C) 13 to 34. Various tablets and fragments from the rubbish and fillings of the cemetery site and a few of unrecorded provenance : Lagash period or a little earlier to the period of Agade or a little later. Arranged approximately by period.

(D) 35 to 50. The best of another collection, of about the same periods, which came to hand after copies after 13-34 were finished. Find-places probably similar to those of 13-34.

(E) 50, 51. Seal-impressions from SIS I-II.

The month-names on tablets of collections C and D are of special interest. They have been studied by Professor Langdon in *Babylonian Menologies and the Semitic Calendars*, Addendum (1935). The tablets in question may perhaps be dated somewhat later than collection A (Ur I) and a little earlier than the early Lagash tablets, and so (provisionally) to about the time of the little-known Second Dynasty. The months and festivals are

(1) *itu-ezen-mah-(d.) nanna-ka* : 45 iii ; *ezen-mah-(d.) nanna-gé* : 45 ii ; *ud (itu ?)-ezen [ ]-(d.) nanna-[ ]* : 40 ii. *Cf. ezen-mah*, 9th or 10th month in Dyn. III.

(2) *itu-ezen-mah*-(d.) *nin-é-gal-ka* : 47 ii. Langdon points out that this is an origin for the sixth Assyrian month, *arab* (d.) *Belti-ekalli*.

(3) *ezen-mah*-(d.) *nin-EZEN* + *LA* : 38. Cf. offering to (d.) *nin-EZEN* + *LA* in *itu-ezen-an-na*, 10th month, Legrain, *Rois d'Ur* 320.

(4) *ezen-sag-igi-kár* : 17. [*kár* = *ganatenu* with its *pre-Sargonic* slant from the right (cf. *SL* 19) ; Langdon takes it otherwise (*ezen-sag-ù*)]. As *igi-kár* means *barû*, an equation to *nabrium*, feast in *itu-ezen-mah* at Ur, is possible (cf. Langdon) ; but a feast of the New Year seems more probable, *igi-kár-kár* being used in Chiera, *Sum. Rel. Texts*, Pl. VI, 19, of the shining forth of *ud-sag* (= New Year's Day according to the context ; *SAK* 82, e, 9, 3 compared with 80, 5, 1 ; and *Nik.* 2 Rs. 7, *itu-mul-ud-sag* etc.). Cf. *tanmartu* (shining forth), Assyrian name of Nisan.

(5) *itu-um-izi* : 46 vi. *um-izi*, four times in list of offerings : 46. *um-izi-izi-gar*<sup>1</sup> : 39. Fifth Nippurian month, with its feast (*um* = *esinnu*). In 36 [*itu* ?]-*um-izi* is date of an offering *um-a-zu-šù* : cf. *itu-ezen*-(d.) *nin-a-zu*, name of this month at Ur in Dyn. III.

(6) *itu-šu-eš<sub>5</sub>*-(d.) *nanna-ka* : 13 iv. Cf. *itu-šu-eš<sub>5</sub>-ša*, 8th or 9th month in Dyn. III.

(7) *šu-eš<sub>5</sub>*-(d.) *ninni* : 46 iii preceded and followed by references to the 5th month.

This seems to dispose of the possibility that *itu-šu-eš<sub>5</sub>-ša* signified " the third " month from *a-ki-ti* : the *šu-eš* appears to be a kind of festival that occurred more than once in the year. The feasts (6) and (7) are probably separated by an interval of three months. This may be significant for the name, written " *šu-3*." The word *šu-eš* appears to have survived only in the month-name, and it is possible that it ceased to be generally intelligible. *eš-ša* may have sounded very like the Sumerian word for *eight* (eventually *us-su*, but in etymology *eš* [from *i-eš*]-*ša*) : hence perhaps the Akkadian name *Arah-šamna*, eighth month.

(8) *itu-á-ki-ti-ka* : 44 iv. Sixth or seventh of Dyn. III. Cf. 46 i : [ ]-*ki-ti*.

(9) *itu-kud-ka* : 13 iii. Cf. *itu-še-GUR-kud*, 12th or 1st of Dyn. III.

(10) *itu-ab-peš-kú*-(d.) *en-ki-ka* : 15 ii. (*ab-peš* is a quality or product of fish : *F. Sch.* 10 iii 3).

(11) *itu-amar*(?)*-sag-kú-ka* : 43 ii (or *itu-sag-siskur-kú* : but cf. *amar-sag-mušen*, *ITT* 2, 952).

(12) *itu-amar*-?-*ka* : 42 ii.

The equations in the above list are generally not to the otherwise known *pre-Sargonic* or *Sargonic* months, but to those of the third dynasty of Ur. In that series the three months after *še-GUR-kud* are named from the eating of certain animals. It is likely that our months (10), (11) and (12) belong to this part of the year.

The various equivalents (arranged in order from *še-GUR-kud*, and with *Belti-ekalli* reckoned as fifth month) indicate a series, with two months missing but no duplicates, as follows :—

1. *itu-kud-ka* (9).
2. { *itu-ab-peš-kú*-(d.) *en-ki-ka* (10).
3. { *itu-amar* (?) *-sag-kú-ka* (11).
4. { *itu-amar*-?-*ka* (12).

<sup>1</sup> Cf. *é-izi-gar* in *PN* 267.

5. *itu-ezen-mah-(d.)nin-é-gal-ka* (2).
  6. *itu-um-izi* (5).
  7. *itu-á-ki-ti-ka* (8).
  8. —
  9. *itu-šu-eš<sub>5</sub>-(d.) nanna-ka* (6).
  10. *itu-ezen-mah-(d.) nanna-ka* (1).
  11. *itu-ezen-mah-(d.) nin-EZEN+LA* (3).
  12. —
- 

I wish to express my thanks to Professor Langdon for his very generous help and especially for examining with me nearly all the more difficult signs on the archaic tablets.



## PROPER NAMES

The order in which the signs are written is entirely irrelevant to the pronunciation. The first seven references to the name *amar-é-bil* will show all of the six possible permutations of the three signs. A purely objective transcription of the names is therefore impracticable. The sign list is an index to the present list.

The following is a fact relevant to the transcription. Many tablets contain pairs of names that are assonant or of similar formation or meaning. Cf. *en-me-li* followed by *PA-en-me-ki* (177 iii), *a-MEN-kalam* by *a-kalam-si* (187 i), *lugal-é-nun-si* by *lugal-é-gab-si* (201 i), *ur-ušum-gal* by *a-ušum-gal* (260 iii), *nim-[ ]* by *nim-ĤAR* (279 ii), *NI+TUK* by *a-gír-gal-NI+TUK* (339), *dumu-sal* by *gál-dùg-sal* (364 ii), *nin-lam* by *ama-lam + ru* (70 ii); sequences of two names formed with S. 165 in 143 i, of two with *IGI+BUR* in 181 iv, of two with *gírgal* in 305 i, three with *a* in 229, three with *ki* in 186 ii; *aga-gi* followed by *gil* of like meaning in 34 ii; *šim-ti* and *šim-zi* on 62, *udu-zal* and *udu-sal* on 273, S. 164-*al-da* and S. 164-*bàn-da* on 259, *urí-ki-dùg* and *urí-zi-mu* on 310; etc. These pairs (and triads) must indicate relationship: cf. *R. Cem.* 318, 321 n. 10.

This index includes some words that may be regarded as titles (cf. Int. V, M), and certain other ambiguous terms, marked with a query. It does not include names occurring in the Supplement.

- |   |  |
|---|--|
| 1 a : 154 (abbrev.); 170 i; cf. 153 i     | 17 a-IGI + BUR : 202 ; 280 ; 341 iii     |
| 3 ; 259 i i ; 278 ii 3                    | 18 a-KA : 3 i                            |
| 2 a-APIN-nun : 253 i                      | 19 a-[K]A(kir ?)-ra : 356 ii             |
| 3 a-alam : 1 ; 207 ; 224 i, iii ; 281 ii  | 20 a-kalam-si : 187 i                    |
| 4 a-alam-abzu : 247 i                     | 21 a-ki-saĥar : 159 ii                   |
| 5 a-điri : 65 ii ; cf. 366 i 4            | 22 a-làl : 208 i ; 289 ii ; 354 i        |
| 6 a-dul (?) [S. 154] : 232 (or=N. 36)     | 23 a-lam : 63 iv                         |
| 7 a-é-gal : 273 i                         | 24 a-lipiš (= S. 171) : 126 i ; 274 ii   |
| 8 a-é-nun-mud : 47 i                      | 25 a-lú-adab : 93 iv end                 |
| 9 a-é-ti : 143 ii ; cf. 181 iv 3          | 26 a-lú-làl : 229 i (or lú-a-làl)        |
| 10 a-en-da : 357 ii                       | 27 a-lugal-sikil-? : 199 iv              |
| 11 a-gal : 225 ii                         | 27b a-mar-gi : 137 ii (PN ?)             |
| 12 a-geštin : 2 v ; 32 ii ; 226 v, vii ;  | 28 a-me (?) -kisal-NI : 69 iii           |
| 259 ii ; 305 ii ; 344 ; 356 i 4.          | 29 a-MEN-kalam : 187 i (or a-kalam-      |
| Cf. Int. V, D (3)                         | MEN : cf. N. 20)                         |
| 13 (cancelled)                            | 30 a-mer : 68 ii ; 110 ; 202 i, ii ; cf. |
| 14 a-gír-gal : 24 ii ; 27 i, ii ; 84 ii ; | 307 iii                                  |
| 87 ii ; 181 iv ; 356 i 2, 5 ; 367 i ;     | 31 a-mu-sar-pi-ni : 302                  |
| cf. 168 v                                 | 31b a-nigín : 87 iii                     |
| 15 a-gír-gal-gim : 152                    | 32 a-PA-dùg : 24 ii ; 99 ii (?) ; 128    |
| 15b a-gír-gal-“NI + TUK” : 339 ii         | v ; 147 iii ; 182A ii ; 252 i ;          |
| 16 a-i-ba : 367 ii, iii                   | 341 iii                                  |

- 33 a-PA-urí: 99 i  
 34 a-sag-da: 128 v  
 35 a-še: 68 ii  
 36 a-tu: 168 iii; 172  
 37 a-TÚG; 153 ii; 191 ii; 260 i, ii  
 38 a-ur-sag: 143 i  
 39 a-ur-sag-nanna: 143 ii  
 40 a-? (URI? UZA?)-ma: 159 i  
 41 a-urù: 168 ii  
 42 a-uru-si: 128 iv; cf. 112 ii end  
 43 a-ušbar (? = S. 341)-ra: 199 iii, iv  
 44 a-ušum-gal: 108 ii; 156 (?); 260 iii; 344  
 45 a-[z]a-[z]a: 341 ii  
 46 a-zi-da: 186 ii  
 47 a-zu-lu-lu (or lu-lu and title?): 289 ii  
 48 a-zur-é-gal: 229 ii [cf. 4R 24, 15f. *a-zur-zur-re* = *māru kunnū*; but more simply a-amar . . . Cf. N. 165]  
 49 A + S. 134: 193C i; 342  
 50 a-S. 136: 351; cf. 260 i  
 51 a-S. 137: 176 i  
 52 a-S. 238: 185 ii (PN ?)  
 53 a-S. 281-zi: 273 i, ii  
 54 a-S. 413: 2 ii  
 55 ab-Ú: 339 i; 355 (??)  
 56 ab-i-gál: 367 i  
 56b áb-NUN.DU (or abrig): 304 i. Cf. Int. V, P (6)  
 57 abzu-B[IL]-si: 82  
 58 abzu-da: 112 iv 10  
 59 abzu-diri: 2 i; 127 ii; 193C; 226 i  
 60 abzu-si: 3 ii  
 61 abzu-[ ]-si: 74 iii; 113D; 133  
 62 ad: 63 v  
 63 ag: 15 i; 73; 85 i (?); 87 i, iv; 99 i; 104 ii (?); 112 i 2, 5; 123 i 135 i; 153 ii; 168 i; 181 ii; 248 ii; 274 iii; 350 iii; 361 ii (?); 371 i; Cf. also under S. 62.  
 64 ag-[ ]?-a-geštin: 245  
 65 ag (?) -kalam (or ib-šeš): 354 ii  
 66 ag-lu: 9 i; 221 i; 354 i; 356 i cf. 259 ii 5  
 67 ag-lu-lu: 350 ii  
 68 ag-ma-gíd: 168 iii  
 69 ag-sag-tùn: 36 ii; 206 (?) (PN ?)  
 70 ag-šir-ra: 135 bis; 357 ii  
 70b aga-gi: 34 ii; 209, 2 (?). Cf. Int. V, D (4)  
 71 alam-abzu: 104 v; 278 ii  
 72 alam-kur-ta: 171A i  
 73 alam-lugal: 224 ii (PN ? cf. N. 80)  
 74 alam-S. 377-bil (S. 103b): 47 i  
 75 alim-ma: 161 i  
 76 ama-AB: 259 iii  
 77 ama-abzu-mud: 65 iii  
 78 ama-abzu-si: 94 ii; 112 ii mic (?); 248 i  
 79 ama-aga: 10 ii  
 80 ama-alam (or alam-ama): 26 i 93 iv 5; 99 i; 142 ii; 177 ii 194 ii; 201 i; 350 iv; 363 i  
 81 ama-alam-gi (or alam-gi-ama): 92  
 82 ama-ama-si: 24 ii  
 83 ama-an-na: 253 i  
 84 ama-bára-si: 92 i; 112 v 1 (?) 176 i; cf. 94 i  
 85 ama-bur-si: 87 iii; 127 iv; 211 i 226 viii  
 86 ama-dar-an: 3 ii  
 87 ama-dili: 70 i  
 88 ama-(d.)im-[gíg?]: 345 i 3 (cf. F. Sch. 27 v 18; Int. V, M (37). Cf. ama-(d.)im-?-?-? 341 i; an N. 115  
 89 ama-dingir-kalam-[ ]?: 162 ii  
 90 ama-dingir-mu: 297 i  
 91 ama-diri: 51 i; 264; cf. 108 i 4  
 92 ama-[ ]-diri: 208 i  
 93 ama-é-dùg: 87 v; 371 iv  
 94 ama-é-IGI + BUR: 53 i  
 95 ama-é-nun-[ ]: 309 i  
 96 ama-é-nun-da: 161 ii  
 97 ama-é-nun-si: 161 i; 199 ii 208 i  
 98 ama-é-si: 61; 62 edge; 109 i 4 (?); 208 i 2 (?); 226 iii 255 ii; 259 ii; 354 ii 2 (?)



- 99 ama-edin : 248 iv  
100 ama-en-dùg : 72 iv ; 226 iv, viii ;  
cf. 350 ii 5  
101 ama-ĒN + Ē-si : 163 vi ; 253  
iii ; cf. 109 iv 6  
102 ama-gá-bára-si : 247 ii  
103 ama-gam-gam-kù : 9 i  
104 ama-gana : 252 ii ; cf. 28 i  
105 ama-ganun-si : 142 ii  
106 ama-geštin : 338 iii  
107 ama-gud-an : 48 i ; 161 i (or  
ama-d. gud)  
108 ama-gud-lul-lim : 70 ii  
109 ama-GUD + DUG (?) : 242 i.  
Cf. N. 173  
110 ama-gír-gal : 48 ii ; 85 ii ; 87 iii ;  
109 i ; 241 iii ; 338 iv  
111 ama-ḥe-ag : 26 ii ; 153 ii ; 247 ii  
112 ama-[ ]ḥe-ag : 147 ii  
113 ama-ig-gal : 32 ii ; 92 i ; 152  
i, 2, 5  
114 ama-IGI + BUR : 112 v end ;  
136 ; 153 i ; 255 ii ; 345 ii ;  
354 i  
115 ama-im-g[ig- ] : 306 ii. cf. N.  
88  
116 ama-inim-dùg : 4 ; 66 ii ; 252 ii ;  
278 ii ; 354 i  
117 ama-KA (!) + SA (?) -si : 87 ii (or  
N. 98 with *lagar* ?)  
118 ama-kalam-[ ] : 113F  
119 ama-ki-S.248-è : 3 i  
120 ama (?) -kisal : 143 ii 3  
121 ama-kisal-si : 252 i  
122 ama-LÁL (?) -dùg : 297 i  
123 ama-LAM + RU : 70 ii  
124 ama-li-gal : 51 i  
125 ama-líl (? = S. 366) -si : 104 iv,  
v 1, 4 ; 253 iii ; cf. 78  
126 ama-me-nun-si : 3 ii  
127 ama-me-si : 104 iii ; 181 iv ;  
252 ii  
128 ama (?) -men (?) -si [or = N. 82,  
or N. 134 with erasure] : 185 ii  
129 ama-“NI + TUK” -KI-túm (til-  
munitum ?) : 338 ii  
130 ama-nidaba-si : 162 iii  
131 ama-ninni : 92 ii 2  
132 ama-nu[n]-gal : 253 iii  
133 ama-pisán-si : 57 ; 66 i ; 112 ii  
mid.  
134 ama-si : 50 i ; 147 ii ; 253 ii  
135 ama-si-an : 62 i ; 253 ii  
136 ama-ša<sub>6</sub>-abzu-si : 287  
137 ama-ša<sub>6</sub>-bur-si : 135 bis ; cf. 24 ii  
138 ama-ša<sub>6</sub>-si : 112 v 8 ; 140 i  
139 ama-šál : 112 v 19  
139b ama-t[ud ?] -an-[ ] ? : 26 ii 3 (cf.  
RA xx 98, i 36)  
140 ama-UDU : 10 i ; cf. 242 ii 3 (?)  
141 ama-ur<sub>4</sub>-da-ag : 59 i  
142 ama-ur<sub>4</sub>-da-me-ag : 291 i  
143 ama-uru-si : 108 i ; 168 v ; 252 i ;  
cf. 92 ii 1  
144 ama-ušum-gal : 17 i, ii ; 259 iii (?)  
145 amar : 87 vi ; 281 i  
146 amar-alad : 274 ii  
147 amar-abzu : 108 i  
148 amar-AN : 186 ii  
149 amar-DIM<sub>4</sub>-tur : 357 ii  
150 amar-(d.)alim-ma : 108 iii  
151 amar-(d.)balag-sir-ŠE-nu-zu(?) :  
5 iv  
152 amar-(d.)gi[bil] : 255 ii  
153 amar-(d.)ib ; 247 ii ; 338 iii ; cf.  
26 i 1 ?  
154 amar-(d.)íb : 345 i  
155 amar-(d.)lamma : 112 i mid.  
156 amar-(d.)nidaba : 5 iv  
157 amar-(d.)PA : 36 i  
158 amar-(d.)S.153 : 5 iv ; 62 iii ;  
108 ii ; 305 ii ; cf. 181 iii  
159 amar-(d.)S. 403 : 62 ii  
160 amar-dùg : 225 ii  
161 amar-DUN (?) KI (?) : 371 i (cf.  
ki-dun ; F. Wirts. 25, 3)  
162 amar-é : 225 iii  
163 amar-é-ša<sub>6</sub> : 3 i ; 243 ; cf. 33, 2  
(or é-zur-zur)  
164 amar-é-bíl : 55 i ; 84 ii ; 87 iii ;  
92 i ; 168 i ; 216 ; 231 i ;  
252 ii ; cf. 245 ; 354 ii  
165 amar-é-gal : 104 iii ; 364 ii ; cf.  
27 III

- 166 amar-é-gíd : 145 i (?)  
 167 amar-é-giš-bíl (S. 103f) : 255 ii  
 168 amar-ÉN + É : 170 ii : 356 ii  
 169 amar-ezen : 128 v ; 185 ii ; 289 i ;  
     341 i  
 170 amar-ezen-SÛ-DU-DU : 112 iii  
     mid.  
 171 amar-ga : 226 iv, viii  
 172 amar-gud-gal : 225 i  
 173 amar-GUD + DÛG : so appar-  
     ently in 33, and probably 30 ii,  
     186 i ; but *cf.* N. 180  
 174 amar-ib : 107 i ; 112 iv mid. ;  
     177 i, iii ; 202 ; 226 i ; 248 ii ;  
     255 ii ; 280  
 175 amar-IGI + BUR : 62 ii ; 84  
     ii 5  
 176 amar-ki-gal : 87 iii ; *cf.* 366  
     i 6  
 177 amar-kisal : 30 i, iii ; 86 i ; 140 i ;  
     142 i ; 297 ii  
 178 amar-ki-sikil : 143 ii  
 179 amar-kù-ga : 371 i  
 180 amar-lâl : 86 ii ; 95 i ; 114 i ;  
     127 ii ; 135 ; 142 i ; 216 (?) ;  
     231 i ; 349 ii (?)  
 181 amar-lugal : 85 iii ; 112 i 3 ;  
     181 ii ; 274 i ; 341 iii ; 354 ii  
 182 amar-lugal-gir (?) : 193A  
 183 amar-me (?) -kisal (?) : 71 ii  
 184 amar-nab : 133 ; 185 ii ; 186 i ;  
     339 i ; 347 ; 354 ii  
 185 amar-nanna : 278 ii ; 367 i  
 186 amar-nanše-mun-si : 338 ii  
 187 amar-ninni-kur : 168 i  
 188 amar-NINNI-ZA (šuba) : 2 iv  
 189 amar-sangu : 99 ii ; 100 ; 114 i ;  
     142 i ; 147 iii ; 159 i ; 177 i ;  
     194 ii ; 201 i ; 205 i  
 189b amar-si [ ] : 10 ii  
 190 amar-síg-nun : 2 iv  
 191 amar-síg-šub : 143 iii  
 192 amar-SUM : 84 ii  
 193 amar-tur : 296 i  
 194 amar-tùr : 271 i, ii  
 195 amar-ú-a-é-dar : 221  
 196 amar-ub : 242 ii ; *cf.* 261 i 6  
 197 amar-UD : 341 ii  
 198 amar-ud-sar : 5 i ; 24 ii ; 226  
     vii ; 371 i, iv  
 199 amar-ur-sag-kalam : 62 i  
 199b amar-[ ]-za : 27 ii 3  
 200 amar-S. 304 : 118 ; 252 ii, iii ;  
     *cf.* 72 i 7  
 201 amar-S. 305 : 43  
 202 anšu (or šakán) : 32 ii. (PN ?).  
     Possibly in 11 ii ?  
 203 ANŠU[S. 161]-UD : 17 i  
 204 ANŠU[S. 161]-UDU : 17 i  
 205 ARAD-lugal : 128 iv  
 206 AZU-na : 109 iii ; 185 ii ; 226 i  
     (*F. Wirts.* 106, 11). Or na-azu :  
     *cf.* N. 582  
 207 ba-zi : 274 ii  
 208 balag-si-sá : 3 i  
 209 bàra-sì-sì : 143 ii  
 210 bára-NU-DI-gan : 2 v  
 211 BIL-si : 162 iii  
 212 bu-lu (?) -lu : 254  
 213 bulug-ú : 63 iii  
 214 bur-si : 5 i : 196B ; 259 ii  
 215 bùzur (? = S. 234)-(d.)šu-gi (?) :  
     278 i  
 216 da-da : 80  
 217 da-dar : 66 ii ; 168 i ; 196B  
 217b da-síg-šub : 128 v (or N. 529)  
 218 dàg (?) -mud (?) ; 47 ii [*cf.* under  
     S. 407]  
 219 dar-gál : 360 i  
 220 dar (?) -diri : 15 i [or HÛ-SI-a ?]  
 221 dili : 168 ii 4 (NP ?)  
 222 dili-dili (didli) : 367 iii  
 223 dili (?) -[ ]?-r[a] ? : 259 ii 6  
 224 DÍM-gal : 65 i ; 186 i ; 243 (šitim-  
     gal ?)  
 225 DIM<sub>4</sub>-SAR : 286 i (bulùg-ma<sub>4</sub>)  
 226 dingir-ag : 87 ii ; 225 ii  
 227 (d.)balag-sír-ir-ḫa-tin-mud-nun :  
     142 i ; *cf.* 190 i, 193B [*cf.* *F.*  
     *Sch.* 1, Rs. i, 19 ; 72, ii, 11 ;  
     Int. V, O (2)]  
 228 (d.)bára-[ ] : 181 i  
 229 dingir-diri : 98 iv (*cf.* NN. 91,  
     464, 558)

- 230 (d.)en-abzu-UD-UD-(nun)-(gim) :  
69 i, ii, iii
- 231 (d.)[ ]?-he-ág : 285
- 232 (d.)ib. 345 ii 3, 5
- 233 (d.)igi-bar : 288 iv
- 234 (d.)im-gíg : 143 i
- 235 (d.)kúš-me-ag : 171a (*cf. F. Sch.*  
p. 13\*)
- 236 (d.)la-a : 168 ii ; 172 ; 361 ii  
[*cf. Orient.* 23, p. 25, No. 323]
- 237 (d.)la-ma : 168 iii
- 238 (d.)la-MAL : 367 iii (or gá-la-  
AN : *cf.* 128 iv)
- 239 (d. ?)-lab(?)-ba(?) : 72 i 1 (very  
doubtful : *cf.* N. 413)
- 240 (d. ?)-laḥar-túm : 367 i
- 241 (d.)nam-šub : 199 iii, iv [or nam-  
šub-AN ?]
- 242 (d.)nin-AB-[ ] : 197 iii. *Cf.*  
N. 576
- 243 (d.)nin-gal-ag : 9 ii
- 244 (d.)nin-sar-? [ama ?] : 112 i 9
- 245 (d.)ninni-ag : 28 i ; 31 ; 65 i ;  
68A, 5 ; 70 ii, iii ; 89 i 5 ;  
93 iii ; 98 i ; 112 i 8 ; 146 ;  
168 iii ; 183 i, ii ; 211 iii (?) ;  
212 iii ; 280 ; 286 i, ii ; 352 i ;  
366 ii
- 246 (d.)ninni-ib-ag : 98 iv
- 247 (d.)ninni-lam-ka-imín-diri : 85 iii
- 248 (d.)ninni-[ta]b ?-kúš-ag : 357 iii ;  
[or N. 245 and title]
- 249 (d.)ninni-[ ] : 98 ii
- 250 (d.)nunuz (?) : 113B i [= S. 82b ;  
perhaps better (d.)za]
- 251 (d.)sag(?)-me-ag : 206 (= N.  
235 ?)
- 252 (d.)za : 168 iii
- 253 (d.)S. 403-mes : 140 iii
- 254 diri : 191 i ; *cf.* 62 ii 3
- 255 DŪ-si : 112 iv mid.
- 256 dumu-"NI + TUK" : 91 ; 112  
iii 7 ; 346. (*F. Sch.*, p. 27,  
ii 10)
- 257 dumu-sag : 82
- 258 dumu-sal : 273 i ; 364 ii
- 259 dumu-ša-dar (?) : 168 ii 5
- 260 dun-dun : 356 ii
- 261 é-bíl-[ ] ? : 182 iii (*cf.* N. 164)
- 262 é-BIL (izi ?)-nu-du : 191 ii
- 263 é-BIL (izi ?)-si : 112 i 14 (PN ?)
- 264 é-dùg : 273 i (for value *cf. F.*  
*Wirts.*, p. 28)
- 265 é-gíd (?) -udu (or -bu-lu ?) : 63 ii
- 266 é-IGI + BUR : 24 i ; 32 i ;  
107 i ; 118 i ; 160 ; 184 i ;  
255 i ; 363 i
- 267 é-izi-gar-si : 49 i (PN ?)
- 268 é-lal : 226 i
- 269 é-lu-lu : 2 iv ; (202 ii : *cf.* Int.  
V, J (iv) )
- 270 é-me-udu (or -me-lu) : 36 i ;  
110
- 271 é-nun-si-mud : 112 iv 2 ; *cf.* 348  
ii 1 (?), with gál (?)
- 272 é-sag-dùg : 252 i
- 273 é + sal-ti : 34 ii ; 124 ii. *Cf.*  
N. 621
- 274 é-si : 109 iv ; 225 iv (! ?) ; *cf.*  
208 i 2 ; 253 ii
- 275 é-si-alam-gal-gal : 110
- 276 é-SU-[ ]-S. 301 : 247 iv
- 277 é-TIN.NU.UD : 224 ii 3, iv 1
- 278 é-zi : 226 iv ; *cf.* 339 ii (PN ?)
- 279 é-zi (?) -da (?) : 63 v
- 280 é-zi-kù : 259 iii
- 281 edin-bar ; 17 i ; but generally  
appellative (Int. V, M)
- 282 en-abzu-si : 168 i ; 259 i
- 283 en-bar-tab : 112 iii 14 ; (*cf.* 348  
i 2 ?)
- 284 en-bur-si : 199 i, iii
- 285 en-diri : 128 iii ; 229 i ; 247 i
- 286 en-dùg-é-nun : 65 ii
- 287 en-dùg-túm : 103 ii
- 288 en-é-gub : 197 i (or é-en-túm)
- 289 en-gi (?) -ki : 366 i (*cf. JN* 142 ;  
*Panth.* 957 ; Int. V, E)
- 290 en-ḥe-gi : 305 iii
- 291 en-ḥe-gí : 112 v 14 ; 248 iii
- 292 en-kul-ab-si : 112 ii 4 (as if PN) ;  
279 i (title ?). *Cf.* PN 408
- 293 en-kul-a[b ?] : 163 iii 7 (title ?)
- 294 en-làl : 27 i

- 295 en- ma [S. 79] : 65 i ; cf. en (?) -  
ma [S. 28] : 349 ii
- 296 en-me-li [ensi] : 61 ; 68 i ; 142 i ;  
147 ii ; 162 ii ; 177 iii ; 183 i
- 297 en-mu-sar-pi-[ni?] : 302 (cf. N. 31)
- 298 en-nuz (? = S. 186)-an-ki : 67 ii  
[or otherwise]
- 299 en-ta (?) : 361 ii
- 300 en-ud-[ ] ? : 348 ii
- 301 ÉN + É : 252 i
- 302 engar : 177 i ; 186 i ; 261 (?)
- 303 ezen-gir<sub>5</sub> (?) : 338 iii
- 304 gá-diri : 12 i ; 32 ii ; 112 ii 1 ;  
259 ii
- 305 ga-gal : 77 ; 183 i, ii
- 306 GA-NI (gar<sub>10</sub>) : 108 iii ; 247 i
- 306b GA.SI.M[UD ?] (S. 37b) : 371 ii,  
iv (PN ??)
- 307 ga-ti : 252 ii
- 308 gá-za-za : 32 ii ; 108 ii
- 309 GAD.NIR : 343 ii (kúd-nir ?  
Cf. NN. 641, 695)
- 310 gál-dùg : 66 ii ; 259 i
- 311 gál-dùg-sal : 364 ii
- 312 gál-NU-sal : 255 iii
- 313 gál-sal : 252 ii, iii
- 314 gam-gam : 112 ii mid. (PN ?) ;  
203 i ; cf. 372 ii ; [U. 14896  
(S. 80) ?]
- 315 gam-gam-dù : 63 ii
- 316 (cancelled)
- 317 geštin : 12 i ; 27 i, iv 3, 8 ; 184 i ;  
259 i
- 318 geštin-tur : 116 i
- 319 gil : 34 ii
- 319b gím-sì : 191 ii (PN ?)
- 320 gir<sub>5</sub> : 252 i 5
- 321 gír-gal (or lugal)-IM-? : 28 ii
- 322 gír-gal-šeš : 93 iii ; (cf. 84 iii 2 ?)
- 323 gír-gal-šeš-ib : 62 i ; 344
- 324 gír-[gal ?]-urù-? : 305 i
- 325 gír-gal- S.377- bfl (S. 103b) ;  
47 i ; 213 i ; 259 ii ; 305 i
- 326 gír-gír-gal-S.377-bfl (S. 103b) :  
92 i
- 327 gír-su-zì-lah<sub>4</sub> : 345 ii
- 327b [gi]š (?) -bil-[ ]-gal : 281 i
- 328 giš-gi-dùg : 28 i
- 329 giš-gi-si : 66 ii
- 330 giš-gíg [gissu] : 93 iv 6
- 331 giš-ku-da-dar-ra : 273 ii
- 332 giš-la-[ ] : 68 i
- 333 giš-me-u[ru ??] : 295 i
- 334 giš-PA : 247 i
- 335 giš-PA-si : 252 i
- 336 giš-sir<sub>4</sub>-è : 324
- 337 giš-[ ]-S. 377-bil (S. 103c) : 85 i
- 338 gu-apin : 139, 4
- 339 gú-bar : 112 iii end
- 340 gu<sub>4</sub>-guana (??)-ag : 87 iv 3 (but  
see S. 276b)
- 341 [ ] ?-gú-nu : 168 vi (PN ?)
- 342 gud-banda : 371 i ; cf. 87 v
- 343 gud-gal-si : 181 iii
- 344 gud-si : 116 i, ii
- 345 ha-tin : 65 i
- 346 he-a : 127 ii
- 347 HU-ku-bu : 252 ii ; 218 (cf.  
following)
- 348 HU-ziz : 218. HU-ku-bu (order  
suggested by *Amherst Tab.* 32)  
is certainly PN in 252 ; cf. also  
*F. Wirts.* 133, 5. Probably  
therefore the pair of words on  
fragment 218 are also PN  
(homœonyms according to prin-  
ciple stated in introductory  
note above, p. 27)
- 349 i-la-la : 146 ; 183 i, ii
- 350 i (?) -li-túm : 143 iii 7
- 351 ib-mud : 191 i ; 193A ; 231 ii ;  
350 ii ; 359
- 352 i[b]- za-ma : 28 i ; 364 ii
- 353 cancelled
- 354 ib -zì-zi : 226 v, viii
- 355 ib-tur-tur : 59 (i), ii
- 356 idigna-[ ] : 248 ii
- 357 ig-gal : 66 iii ; 182A iii ; 186 i ;  
cf. 181 ii 2
- 358 ig (?) -[ ] -tin-da : 24 i
- 359 IGI + BUR : 10 i ; 106 i 3 (?) ;  
112 iii mid.
- 360 IGI + BUR-á[g] ? : 295
- 361 IGI + BUR-da : 72 ii 2 (?)

- 362 IGI + BUR- UD : 128 vi  
 363 IGI + BUR-S. 377-bíl (S. 103b) :  
     163 i, iv 1, 2, v ; 181 iv  
 364 IGI + BUR-S. 377-bíl (S. 103b)-  
     ga : 54  
 365 igi-du<sub>8</sub>-ag : 70 i ; 210 ii. *cf.* igi-  
     [ ]-ag : 259 iii ; [ ]-du<sub>8</sub>-ag :  
     239  
 366 IGI-GA (uhhur) : 70 ii  
 366b igi-gal-gal-zu : U. 14896  
 367 igi-igi (or lilib) : 242 i  
 368 igi-igi-da : 70 iii  
 369 igi-lam : 363 ii  
 370 igi-si<sub>4</sub>-[ ] ? : 12 ii  
 370b [ ]-IL-BIL : 305 i  
 371 im-gíg : 128 iii (with íl (?) -gal) :  
     Int. V, M 15b)  
 372 im-kur-ra : 298  
 373 im-lagab : 252 ii ; 53 ii, with  
     AN and DAM (*cf.* Int. V,  
     M (4) )  
 374 inim-tál : 7  
 375 ir-a : 353 i ; 363 i (?)  
 376 KA : 281 i 1  
 377 KA.GUR : 277  
 378 ka-iš : 227 ; 276  
 379 ka-izi : 70 i (PN ?)  
 380 KA-KA : 259 ii  
 381 KA-KA-ga (? or lál ?) : 369  
 382 KA-KA-ZÍZ-NI : 19, i (PN ?)  
 383 ka-lal-lum : 77 ; 203 i  
 384 ka-šakán : 98 i  
 385 ka-tur : 107 i (PN ?)  
 386 ka-zal : 116 ii  
 387 kalam-si : 66 ii  
 388 ki-a-gal-ta : 87 iv  
 389 ki-a + šeš-gal-ta : 84 ii 3  
 390 ki-bir-NI : 15 iii (but *cf.* Int. V,  
     J (ii) )  
 391 ki-dùg : 109 ii ; 119 ii  
 392 ki-dùg-(d.)ib : 199 iv  
 393 ki-gal-gal-nanna(?) : 341 i 1 (PN ?)  
 394 ki (?) -gub : 225 i  
 395 ki-gub-dul (?) -dul (?) : 63 i  
 396 [ ]-ki-gub-udu : 186 ii  
 397 ki-IGI + BUR : 168 i ; 259 ii  
 398 ki (?) -lah : 186 ii 2  
 398b ki-sag-(d.)ninni : 72 ii 5 (?) ; *cf.*  
     70 i 11  
 398c ki-sag-DÛ : 107 i ; 186 ii  
 399 ki-TÚG-ra (?) : 109 i  
 399b [k]i (?) -uri : 2 i 3  
 400 kin-ti : 67 i  
 401 kisal : 154 (abbrev.)  
 402 kisal-si : 50 i ; 127 i, ii ; 339 i ;  
     357 iii  
 403 KU-ba : 153 ii  
 404 KU.KU : 112 iii 5 from below  
 404b KU.KU-S. 178 : U. 14896  
 405 kú-kú-ga : 186 i ; 231 ii ; U.  
     12827  
 406 ku-li : 12 i ; 189 ; 193A ; 261 i 2 ;  
     371 i  
 407 kud-da : 181 iv ; *cf.* 155 i  
 408 kul + ab<sub>4</sub>-si : 84 ii [apparently  
     with aš-aš] ; 274 ii  
 409 kur-dar ; 75 ii (PN ?)  
 410 kúš : 112 iii mid. ; 339 i 1  
 411 kúš-tur : 152  
 412 kúš-[ ] ? : 345 iii 1  
 413 lab(?) -ba (?) : 72 i 1 (with AN  
     erased ?), 3 ; iii 1. (all un-  
     certain : *cf.* sign list 222, 327)  
 414 lagar(?) -dàg(?) -na-zag(?) [S. 21] :  
     168 ii 2 (*cf.* Int. V, M (21) )  
 415 lál-lál : 89 ii  
 416 lál-S. 377-bil (S. 103b) : 168 ii  
     10  
 417 lam-lam : 366 ii ; *cf.* 87 ii 6  
 418 LAM + RU-saħar-ra : 70 i  
 419 LAM + KUR-LAM + KUR  
     (-sig<sub>7</sub>) : 240 ii (*cf.* sign list 245)  
 420 lamma : 4  
 421 lim-ma : 17 i ; 24 ii ; 57 i ;  
     261 i ; 291 i ; 309 ii  
 422 lipiš-gi (?) -na : 287  
 423 lu-lu : 62 iii ; 70 i, iii ; 74 ii ;  
     112 iv 7, v 5, 13 (?) , rev. (?) ;  
     114 i ; 162 i ; 163 iii ; 171 ;  
     181 iii ; 182 iii ; 212 ii ; 226  
     iii, iv, vii, viii ; 231 ii ; 248 iii,  
     iv ; 252 ii ; 257 ; 296 ii ; 345  
     iii ; 350 ii ; 352 i ; 366 ii ;  
     371 i, iv

- 424 lu-lu-mu [or lu-lu with MU,  
title]: 17 i  
425 lu-ma: 168 iii  
426 lú-bára-dùg (with PA): 67 ii  
(PN ?)  
427 lú-dù<sub>8</sub>: 118  
428 lú-dub: 47 i (or -mes? cf. N.  
442f.)  
429 lú-é-si: 20 i  
430 lú-é-si<sub>4</sub>: 167  
431 lú-ensi: 72 ii 3  
432 lú-geštin: 70 iii; 160; 181 ii  
433 lú (?) - gud (?) - še (?) : 281 ii  
434 lú-gud-si: 65 ii  
435 lú-gím: 168 vi (PN ?)  
436 lú-ki (?) : 175 (cf. RTC 12 iv 5)  
437 lú-kúš-tur: 93 vi  
438 lú-lál: 2 ii; 224 ii 2 [if gal is can-  
celled]; 347 (?)  
439 lú-[ ]- lál: 89 iii [= lugal-(d.)  
lál or lu-(d.)lál ?]  
440 lú-ma: 106 i; 113B i  
441 lú-me-kisal-si: 13 i  
442 lú-mes-[ ]? : 291 i (cf. N. 428)  
443 lú-mes-nu-šù: 62 i  
444 lú-na-nam: 127 i, ii  
445 lú- nam ( . . . bar): 290  
446 lú-nidaba: 58  
447 lú-NU-GAR-lugud: 259 iii [cf.  
F. Wirts. 35, 5, 2 ?]  
448 lú-si-si: 284; U. 12840  
449 lú-šeš-nu-šù: 87 v  
450 lú-uri: 93 iii (PN ?)  
451 lú (?) - za-na: 12 i 7  
452 lú-za-za: 371 iv  
453 lú? (S. 237): 3 i; cf. 257 ?  
454 lú? (S. 237)-nam-me (?) -si: 93 i 10  
455 lu? (S. 237)-gá: 93 i 9 (cf. 112  
iv 6 from below) (PN ?)  
456 lú? (S. 237)-ú: 63 i  
457 lú? (S. 237)-uri-gal: 196C (?)  
[rather title: Int. V, J (v);  
M (76)]  
458 lugal-AB-[ ]-da: 199 v (or  
lugal-da: N. 462)  
459 lugal-ag: 12 i; 87 i; U. 12827  
460 lugal-bára (?) -[ ]-NI: 312 (?)  
461 lugal-bára-si: 248 ii  
462 lugal-da: 168 iv  
463 lugal-(d.)im-gíg: 128 v  
464 lugal-diri: 224 ii, iv  
465 lugal-é-ab-ba: 348 iv  
466 lugal-é-gab-si: 201 i  
467 lugal-é-nun-si: 201 i; 259 i;  
cf. 159 i  
468 lugal-gá-si: 109 iv  
469 lugal (?) -[ ]? -gar: 355 (cf. N.  
489)  
470 lugal-gíd [or dim<sub>4</sub>]: 366 ii; cf.  
106 i 7  
471 lugal-gír-gal: 70 iii; 104 i;  
128 ii (?); 145 ii (?); 185 ii  
472 lugal-gir (?) -PISAN + G[UD ?]:  
76 i  
473 lugal-gú-mu: 28 ii  
474 lugal-ib-še-a[g ?]: 297 i 4  
475 lugal-ka-zal: 298  
476 lugal-lu-lu: 338 ii  
477 lugal-me-si: 87 v; 126 i  
478 lugal-me [or maš]: 53 ii  
479 lugal- men: 93 iii  
480 lugal- mu: 281 i (PN ?)  
481 lugal-nam-SAR-da: 143 i  
482 lugal- nam-tar- PA-sir/sír -sikil:  
101 i, 2, 6; 224 i, iv; cf. 170 iii  
(PN ?)  
483 lugal-pàd-da: 68 ii  
484 lugal-ur-sag: 5 ii  
485 lugal-urù: 128 v  
486 lugal-uru: 112 v 11  
487 lugal-uru-si: 112 iii 6 from below  
488 lugal-utu-sùh-gí: 41 i  
489 lugal-UZ.GAR: 350 ii  
490 lugal-x (or ZU-KÚR?): 297 i.  
(school). (PN ?)  
491 lugal-S.281-da: 53 iii  
492 lugal-S.300-si: 9 i  
493 lum-ma: 24 i; 98 iii, iv [cf. Int.  
V, M 68]; 226 iv, viii; 339 i;  
349 i  
494 ma-gal (?) : 340. Or ma-sig<sub>7</sub> ?  
495 ma- NI-túm: 154  
496 ma-sar: 33 (for N. 499 ?)  
497 ma-si<sub>4</sub>: 226 iv, viii

- 498 ma-zi: 87 ii; 226 i  
 499 ma-S.137: 30 i; 95 i; 103 ii;  
 121; 142 ii; 224 ii; 226 ii,  
 iv 12 (?); 231 ii; 363 iii;  
*cf.* 187 i  
 500 me-ab[zu]-si: 2 ii  
 501 me-[ ]-bil: 176 i (*cf.* N. 509)  
 502 me-da: 245  
 503 me-dar-šeš-ib-IGI + BUR: 181  
 iv  
 504 me-diri: 54; 87 iv  
 505 me-é-nun-si: 2 v; 45; 109 iv  
 (or é-me . . .)  
 506 me-é-kalam-si: 65 i (or é-me . . .)  
 507 me-ga: 243 (PN ??); *cf.* 212 iii  
 (or = N. 366)  
 508 me-ki-a: 168 iii; 212 ii  
 509 me-lá-lám: 164 ii (or me-bil-lá:  
*cf.* N. 501)  
 510 me-lál-[ ]?: 247 iii  
 511 me-nidaba-si: 55 i; 142 ii; 170 i  
 512 me-me: 363 ii  
 513 me-me-si: 339 i  
 514 me-nu-AN: 108 iii; 127 i  
 515 me-nu-e[n]: 128 v 8  
 516 me-nu-UD: 28 ii; 199 i; 207(?)  
 517 me-pàd-ĤU (! ?) [error for da ?]:  
 109 v (PN ?)  
 518 me-ra (or me-[ ]-ra): 371 i  
 519 me-si: 87 vi; 253 ii  
 520 me-šu-ul (?): 3 ii  
 521 me-te-aga: 93 iii  
 522 me-UDU: 15 ii; 81 i  
 523 me-UDU-sag (?)-gal-[ ]?: 307 ii  
 524 mes-gi: 127 iii  
 525 mes-ki (?): 367 iii  
 526 mes-ki-nu-zu: 128 iii; 252 i  
 527 mes-KU: 226 i, (iv)  
 528 mes-ma-S. 137-zi: 93 iii, iv 1, 4;  
 148 (?); 187 i (?)  
 529 mes-pàd-da: 12 ii; 24 ii; 30 ii,  
 iii; 74 iii; 83 ii; 84 iii; 95 ii;  
 96 i; 106 i 2 (?); 128 v (?);  
 136 ii; 162 i (?); 176 ii (?);  
 182 ii; 231 i, ii; 248 iii;  
 349 ii; 354 i 2, 7; 364 ii; 370  
 ii. *cf.* N. 712  
 530 mes-ti-gar: 3 ii 2, 4  
 531 mes-ti-nun-sig-ga (preceded by S.  
 420 = amar?): 324  
 532 mes-ud: 74 ii; 168 iii  
 533 mes-ud-[ ]: 359  
 534 mes-UDU: 5 i; 109 ii; 113G  
 (?); 140 i; 309 ii; 371 ii  
 535 mes-?-S.142b-NU (perhaps mes-  
 igi-tab-nu-šà?): 354 ii  
 536 mes-S. 212a-si: 87 i  
 536b mes(?) -S. 377: U. 14896  
 537 MU: 17 ii; 224 ii (?)  
 538 mud-nun: 274 i; *cf.* 108 ii  
 539 muš(?) -[ ]: 51 i  
 540 na-gal: 143 ii  
 541 na-lum: 2 vi 1  
 541b na-n[i]: 168 iii 12 (*cf.* Fara)  
 542 na-zi: 112 v 10  
 543 na-zi-zi: 71 i 4; 112, ii 3, (iv 5  
 from below ?); 274 ii  
 544 nam-šà-ta: 287  
 545 nanna: 253 i 5  
 546 nanna-ag: 177 i; 354 iii  
 547 nanna-dar: 241 ii; *cf.* 140  
 i 4  
 548 nanna-diri: 34 ii  
 549 nanna-dùg: 87 vi  
 550 nanna-dùg-dím: 26 ii; 247 iii;  
 284  
 551 nanna-gal: 112 ii mid.  
 552 nanna-gana: 87 ii  
 553 nanna-"libir": 252 iii  
 554 nanna-me-eš<sub>6</sub>-tál-la [S. 205]: 177  
 iv  
 555 nanna-na: 2 v  
 556 nanna-sag-da: 341 ii 1  
 557 nanna-?: 345 ii  
 558 nap-diri: 62 iii  
 559 ne-sag: 13 i; 17 ii; 279 i  
 (PN ?)  
 560 ne-sag-(d.)ma-nu: 5 iv [or (d.)  
 ma-nu]  
 561 NI-KU: 2 vi  
 562 (*cancelled*)  
 563 NI-NI: 109 ii  
 564 "NI + TUK": 13 ii; 79;  
 196A; 274 i; 339 i

- 565 NI-zi: 72 iii; 73; 93 i; 99 i;  
100; 123 i; 130; 142 ii;  
162 iii; (= zi-zal? Cf. N.  
767b)
- 566 níg-ud-da: 65 ii
- 567 nigín-mud-?: 354 ii 4
- 568 nigir-gi (34 ii): see *aga-gi*
- 569 NIGIR-[ ]: 92 ii 7; 94 iii  
(cf. NN. 30, 70b)
- 570 nim: 274 ii (cf. 279 ii 1 nim; ii 2  
nim-ḥar; PN?)
- 571 nin: 73
- 572 nin-ḥe-ag: 98 iv
- 573 nin-lam: 70 ii
- 574 nin-mu: 281 i [cf. N. 480]; also  
283 iii (school)
- 575 nin-pisàn-[ ]: 310 iv
- 576 nin-tùn-unu: 27 v; 57
- 577 nin-TUR-nin: possible restora-  
tion in 318? Cf. *R. Cem.*  
p. 312, n. 3
- 578 ninni-ama-gal: 259 iv; cf. 288 iv 2
- 579 nita: 112 v, 3 from below
- 580 nita-ša<sub>6</sub>: 48 i
- 581 nita-UD: 70 iii; 112 iv mid.;  
350 iii
- 582 nu-azu: 344
- 583 NUN.ÁB.TÚM (304 i): see N. 56b
- 584 NUN.ME: 109 iii (*i.e.*, *abgal*,  
but prob. *me-nun*: cf. NN 126,  
505, 585; *PBS* xi 3, 26 ii 2)
- 585 NUN.ME-si: 278 i (me-nun-si)
- 586 PA: 83 ii; 154 (abbrev.)
- 587 PA-dùg: 98 iii; 143 ii; 171 ii;  
177 ii
- 587b PA-en-me-ki: 142 i; 147 ii;  
177 iii
- 588 PA-ga-gal: 39 i (or = N. 305)
- 589 PA-giš-bíl [S. 103b]-ga: 2 ii
- 590 PA-[gi]š(?)?-S.377-bíl [ ]: 92 ii
- 591 PA-gud: 66 ii; 143 iii
- 592 PA-gú-tug: 177 i
- 593 PA-ib-dùg: 350 iv; 358 i
- 594 PA-ma-gíd: 66 iii; 255 i; 304  
ii; cf. 216
- 595 PA-ma-gíd-si: 168 iv; 191 ii;  
348 i; 349 i. (PN?)
- 596 PA-me-en-ki: see N. 587b
- 597 PA-PA (-na, cancelled?): 367
- 598 PA-ul-si (?): 112 iv mid.
- 599 PA-urí-si: 86 i; 177 ii, iii; 222 i;  
cf. 88 i. (PN?)
- 600 PA-S. 270-[ ]?: 101
- 601 PA-S.377-bíl (S.103b)-ga: 74 iii;  
93 iv; 101; 108 iii; 126 i;  
176 ii; 252 ii; 257; 341 i;  
367 iii
- 602 PAP.SÍLA-S.25: 173 (PN? Cf.  
*MI*, 11 ii 8)
- 603 parim-ama: 70 ii
- 604 PI.PI: 171B; 296 ii
- 605 pisàn (?) -nun: 243, 4
- 606 sá-laḥ: 67 i
- 607 sag: 74 ii
- 608 sag-(d.)íb: 226 viii
- 609 sag-làl: 126 i
- 610 sag-sir<sub>4</sub>: 208 iii
- 611 sag-sug-si: 63 i
- 612 SAG-šu<sub>4</sub>: 41 i; 104 v
- 613 sag-tùn: 215 i (PN?)
- 614 sag-UD-[ ]?: 94 iii
- 615 sag-[ ]?-UD-zi: 2 iv
- 616 saḥar: 246 ii (PN?)
- 617 sal: 253 i; 338 iii
- 618 sal-alam: 87 vi; 240 i
- 619 sal-alam-ag: 89 ii; 108 (i), iv
- 620 sal-dingir-nu-[ ]-da: 70 i (cf.  
N. 628)
- 621 sal-é-ti: 176 i; 179; 181 iv; 183  
i, ii; 266 i; 352 i; 360 i 3 (?).  
Probably = N. 273, é + sal-ti:  
cf. however N. 9, a-é-ti.
- 622 sal-geštin: 163 i 1, 3; iii 4, 9;  
cf. 215 i 4. (PN?)
- 623 sal-gír-gal: 155; 191 i; 226 v,  
vii
- 624 sal-ḥe-ag: 106 ii
- 625 sal-IGI + BUR: 70 iii; 240 ii  
(with sig<sub>7</sub>: cf. S. 245)
- 626 sal-KU: 62 iii
- 627 sal-kás (?): 259 iii
- 628 sal-nu-kúš-da: 5 i; 92 i
- 629 sal-túg: 242 i
- 630 sal-zi: 259 iii; 274 iii



- 631 sal-zi-zi-nanna : 9 i (PN ?)  
 632 sangu : 170 i (PN ?)  
 633 cancelled  
 634 sangu-si [ ] : 139  
 635 si<sub>4</sub>-gál : 168 i  
 636 si-si : 89 iv ; 260 i ; 161 i ; 278 i  
 637 si<sub>4</sub>-si<sub>4</sub> : 70 i  
 638 si-si-ga : 77  
 639 sig-ga-gal : 39 i  
 640 sig<sub>7</sub>-si : 237  
 641 sig-šub.KÚD : 123 iii (kúd-sig-šub ? Cf. NN. 191, 217b ; NN. 309, 695)  
 642 sila-kalam : 2 iv  
 643 sila-li : 65 i  
 644 simug ; 98 iii  
 645 sir<sub>4</sub> : 367 i 5  
 646 sir-laḥ<sub>4</sub>-ag : 89 iv  
 647 sir<sub>4</sub>-sir<sub>4</sub> : 247 ii ; 259 i ; cf. U. 14896 (S. 16)  
 648 SUD (??).UD.UD.DAR : 367 ii 4  
 649 sukal : 309 ii  
 650 [ ]-ša-ga : 367 i  
 651 ša-gal (??) : 63 iii  
 652 ša-kúš : 259 iii  
 653 ša-ta-nu-è : 19 i ; 104 ii ; 128 iv and edge ; 143 iii 2 ; 147 iii ; 162 iii ; 182 ii  
 653b ša<sub>6</sub>-RU (?) : 2 v 6 (cf. N. 777)  
 654 še (?) -dim<sub>4</sub> : 253 ii 4  
 655 ŠE (?) S. 25).DŪ.G[ĪR ?] (ḥenbur-gír ?) : 76 ii  
 656 še.nu.GUR<sub>10</sub> (nu-še-GUR<sub>10</sub>) : 253 ii  
 657 še-mus<sub>5</sub>-zi : 65 ii  
 658 ŠE.ŠE.SĪ : 59 i  
 658b ŠE-TÚG : U. 14896  
 659 še-zì-ma(S. 79)-nun-sír : 181 ii (cf., as commodity, 57 ; in PN Contenau, *Contribution a l'hist. écon.*, 54 ii 12)  
 660 šeg-di-kalam-dùg : 357 ii  
 661 šes-dùg : 252 i  
 662 šes-[ ]-gal : 84 iii  
 663 šes-ib-[ ] : 65 iii ; 92 ii  
 664 šes-ib-DU-da : 166  
 665 šes-ib-geštin : 81 i  
 666 šes-ib-giš-ti-kalam : 30 ii, iii ; 86 i ; 88 ii ; 95 i ; 343 iii ; cf. 83 i  
 667 šes-ib-IGI + BUR : 32 ii ; 341 ii  
 668 šes-ib-KA : 128 iii  
 669 šes-ib-KA-dùg : 345 i  
 670 šes-sag-da : 259 iii  
 671 šim-ti : 62 i  
 672 šim-zi : 62 ii  
 673 šiti-mi-ág-gíd : 70 i  
 674 šu-šes-ib-dùg : 163 v, vi  
 675 ?-ŠUB-AN : 366 i  
 676 šubur : 224 i 3, 6  
 677 šubur-ag : 252 iii  
 678 šubur-gal : 309 ii  
 679 šul : 52 ; 87 i ; 113B i ; 164 ii ; 168 iii ; 260 i  
 680 šul-gál : 168 i  
 681 šul-gi : 112 v 9 (PN ?) ; 343 i (or PA-dun-gi : cf. JN Nos. 157, 160)  
 681b šul-si (with PA) : 348 ii 3 ; 371 ii 2 (?)  
 682 ?-tu-ga : 155  
 683 TÚG : 15 ii ; 18 ii ; 109 iv ; 170 ii  
 684 tum-ma : 163 ii  
 685 tūn-dar : 341 iii  
 686 ú-an-túm : 34 i  
 687 UD-dar : 143 i  
 688 UD-diri : 9 ii  
 689 UD-ḥe-ag : 59 i  
 690 UD-kur-d[ar ?] : 80  
 691 UD-kur-? : 127 ii  
 692 ud-sar : 17 iii ; 168 v ; cf. 354 i  
 693 ud (?) -zal : 72 iv  
 694 UD-[ ]-zi-da : 113B ii  
 695 UD-S.246-KÚD : 63 iii (=kúd babbar [cf. NN. 309, 641] with gam-gam ?)  
 696 UDU-a : 304 ii ; 341 iii ; 357 ii ; 372 i  
 697 udu-amar : 248 iii  
 698 udu-ga : 274 ii  
 699 UDU-[ ]-gal-da : 199 iii ; cf. 215 ii (?)  
 700 udu-NI : 273 i

- 701 udu-sal : 273 ii  
 702 udu (?) -síg-si : 13 i  
 703 UDU-S. 67 : 203 ii (lil-lu ?)  
 704 uḫ-zi : 372 i 1  
 705 ukkin-gal : 340  
 706 uku[? = S. 278]-gal : 364 ii  
 707 uku[? = S. 278]-TUR : 274 ii  
 708 um-AN : 163 ii  
 709 um (?) -gír-gal (?) : 62 ii 1  
 710 um-kur-ra : 259 ii  
 711 um-pàd : 2 v  
 712 um-pàd-da : 27 ii, iv ; 160 ;  
     181 iii (cf. N. 529)  
 713 um-UD-S. 377-bíl (S. 103b)-pàd-  
     da : 281 ii  
 714 um-zi : 162 iii  
 715 um-zi-dù : 108 ii ; 143 ii ; 224 i ;  
     cf. 367 ii 3  
 716 ur : 63 ii 3 (?) ; 207 (?)  
 717 ur (?) -a-azu : 281 ii  
 718 ur-ad (?) : 63 ii 5  
 719 ur-dili : 372 i  
 720 ur-(d.)gud [or -gud-an] : 109 ii  
 721 ur-(d.)lamma : 168 ii  
 722 ur-(d.)nidaba : 163 ii  
 723 ur-(d.)nin-dun<sub>4</sub> : 140 iii  
 724 ur-(d.)nin-gal : 9 ii  
 725 ur-(d.)nin-[ ] : 113G  
 726 ur-(d.)nin-S.127 : 153 ii  
 727 ur (?) -(d.)ninni : 72 ii  
 728 ur-(d.)šè-nir-da : 367 ii 1  
 729 ur-(d.)S.157 : 153 i  
 730 ur-gíg : 12 i  
 731 ur-ib : 168 iv  
 732 ur-il-maškum-ma : 308  
 733 ur-ká ! [S. 364]-an-na : 244 ; cf.  
     ur-ká [S. 363b]-[ ] : 248 iv 1  
 734 ur-ki : 63 ii  
 735 ur-la : 252 ii  
 736 ur-lugal : 6 i ; 41 i ; 266  
 737 ur-nanna : 3 ii ; 61  
 738 ur-sag : 39 i ; 63 iii [cf. S. 228] ;  
     94 ii (?) ; 168 ii ; 170 ii ;  
     304 i (?) ; 367 ii  
 739 ur-sag-ag : 167  
 740 ur-sag-banda : 1  
 741 ur-sag-(d.)[ ] : 360 ii (?)  
 742 ur-sag-IGI : 367 iii  
 743 ur-sag-kisal-si-sa : 281 ii  
 744 ur-sag-lam : 92 ii ; 213 i  
 745 ur-sag-nanna : 39 i (?) ; 42 ; 53 i ;  
     55 i ; 66 iii ; 87 iii ; 181 iv ;  
     186 i ; 231 i ; 253 i ; 349 i (?)  
 746 ur-sag-ú : 372 i 2, ii  
 747 ur-sag-UD : 340 ; cf. 128 iii 5  
 748 ur-TUR : 5 iv ; 53 ii ; 171A ii ;  
     256 ; 281 ii  
 749 ur-UD ; 128 iv, v ; 185 ii ;  
     274 iii (cf. N. 730)  
 750 ur-ur : 63 i 6 (?)  
 751 ur (?) -urù-gal : 193A  
 752 ur-ušum-gal : 260 iii  
 753 uri-gal : 296 ii (PN ?)  
 754 urí-ki-dùg : 310 iii  
 755 uri-kur-dar : 358 i (or N. 409 and  
     title)  
 756 urí-zi-mu : 310 iv  
 757 URUDU-DÛ : 168 ii  
 758 usar-A.ḪA : 112 i end  
 759 ušum-gal : 5 i 1 (?) , 2 ; 127 iii,  
     iv (with *simug*) ; 161 i ; 247 iii ;  
     259 i ; 358 i (with *simug*) ; cf.  
     106 i ; 211  
 760 za-ma : 70 ii, iii ; 87 iv ; 112  
     left ; 127 i ; 183 i, ii ; 190 i (?)  
     212 ii ; 226 ii ; 252 i ; 259 i ;  
     271 ii ; 277 ; 297 ii ; 353 i  
 761 za (?) -mu : 367 ii  
 762 za-na : 65 ii  
 763 za-na-TUR : 274 i  
 764 za-za : 57 i ; 224 ii  
 765 zi-ga : 164 iv  
 766 zi-gal-gal (?) : 306 iii  
 767 zi-zi-ga : 205A  
 767b zi-zal-la [S. 205] : 182 ii 1  
 768 zíz-dun-dun : 240 i ; 247 iii ;  
     cf. 356 ii  
 769 ZÍZ-NI-maḫ (?? = S. 383)-da :  
     109 i 2  
 770 zur-zur : 27 i ; 34 ii ; 66 ii ;  
     108 ii ; 126 ii ; 128 iii ; 158A ;  
     163 v ; 202 ; 225 iv ; 240 i ;  
     252 i ; 259 ii ; 261 i ; 274 iii ;  
     297 ii ; 366 ii ; 367 ii

- 771 zur-zur-kisal (or é) : 145 i  
 772 S. 27 : 71 i ; 171A ; 173 ; 175  
       i (?) ; 363 i (?)  
 773 S. 27 (?) -KA.BALAG : 112 iv  
       end (S. 27 title ? Cf. 260 i 5)  
 774 S. 39 : 161 ii  
 775 S. 44-za-ma : 6 ii  
 776 S. 54- si-si : 2 vi  
 777 S. 67-ru : U. 18372  
 778 S. 67- ? : 197 ii  
 779 S. 81 : 70 i  
 780 S. 129-mar-da : 210 i (PN ?)  
 781 S. 134-RU : 163 ii (cf. Int. V,  
       D (1) )  
 782 S. 134-UDU.GA : 199 i (cf. Int.  
       V, D (1) )  
 783 S. 135 : 52 i ; 60 i (cf. Int. V,  
       D (1) )  
 784 S. 164 (= aza ?)-al-da : 259 iv  
 785 S. 164 (= aza ?)-ban-da : 259 iii  
 786 S. 165 : 143 i 5  
 787 S. 165-UD (?) .HU : 143 i 4  
 787b S. 194 - GÍD.NUN - S.334 : U.  
       14896  
 787c S. 194-S. 119 : U. 14896  
 788 S. 212b-si : 296 i  
 789 S. 213-sila : 40 iii  
 790 S. 238 : 93 i (PN ?)  
 791 S. 248-S. 248 (?) : 168 iii 2  
 792 S. 254-zararma : 65 i (? = ka-aš-  
       bar-bar-zararma : cf. *Panth.*  
       1631)  
 793 S. 277-ma : 357 ii  
 794 S. 279 : 142 ii ; 162 ii ; 183 ii ;  
       309 ii ; cf. 68A  
 795 S. 282-HA : 63 i  
 796 S. 337 : 2 i, ii  
 797 S. 345 : 84 ii 6  
 798 S. 377-bíl (S.103b)-[ ] : 172 ;  
       309 ii ; 370 ii  
 799 S. 377-bíl (S. 103b)-ga : 112  
       i 13  
 800 S. 377-bíl (S. 103b)-ga-[ ] : 119  
       i ; 151 ; 174  
 801 S. 391 : 163 iii (PN ?)  
 802 S. 395-gal : 65 i 1  
 803 S. 395-túg-ga : 212 i 2 (PN ?)  
 804 S. 403-ag : 11 ii  
 805 x (= S. 213 ?)-gal : 346, 3 ; 364  
       ii 7



## CATALOGUE

Dimensions and surfaces of the whole tablets, as distinct from the fragments, are indicated: dimensions in millimetres; surfaces usually in the form "flat + convex" with reference to obverse and reverse. Outline of the whole tablets is shown in the copies—except that a few slightly curved sides have been ruled straight on plates 12–19.

Character of inscription is indicated according to the classification in Introduction III. The principal subject of the account is, for brevity, given according to the identifications suggested in Introduction V (some of which are merely provisional).

Unless otherwise stated, the provenance is as follows: 1–14 from the initial trial trenches on the cemetery site; the rest of the principal collection (15–373) from SIS IV/V (certainly or probably); supplementary collections from the rubbish and filling of the cemetery site or unknown.

In col. 5 Roman figures refer to the autographed copies, capital letters to the photographic plates.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
1	U. 8829	Seal impression: recurring inscription: from cylinder. Signs in relief. Script approximating to JN. Int. IV (a).	Length of inscr. (circumference of cylinder) 74. Max. breadth of inscr. 34.	I—A.
2	U. 8825 (2)	Tablet. Flat + slightly convex. F type. Int. IV (c). Rent list.	76 × 78 × 27	I.
3	U. 7849	Tablet. Slightly convex both sides. Account (goats).	53 × 47 × 26	I—A.
4	U. 8825 (4)	Tablet. Slightly convex + nearly flat. Account (cereal products, etc.).	46 × 40 × 17	I.
5	U. 8801	Tablet. Slightly convex + nearly flat. Account (bread?).	66 × 56 × 30	I.
6	U. 8825 (5)	Tablet. Flat + convex. Account (barley).	32 × 30 × 17	I.
7	U. 8825 (3)	Note or label ... ..	45 × 50	I.
8	U. 8826 (4)	Fragment containing design ...	—	I.
9	U. 8826 (1)	Tablet. Flat + convex. Account (commodity not named). PN and titles.	84 × 80 × 33	II.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
10	U. 8825 (1)	Tablet. Flat + convex. Account	71 × 61 × 27	II.
11	U. 8831	Fragment. Account ... ..	—	II.
12	U. 8826 (2)	Fragment. Name list ... ..	—	II.
13	U. 8832	Tablet. Slightly convex + more convex. Account (victuals).	53 × 50 × 22	II.
14	U. 8840	Fragment of badly written school tablet. I = F. Sch. 33 I 12-13. II = ibid. II 4-6. III = ibid. III 7-10. IV = ibid. III 18-IV 1.	—	II.
15	U. 10111	Tablet. Flat + convex. Land ...	66 × 60 × 30	II.
16	U. 12965	Tablet. Flat + convex. Account (small cattle).	70 × 65 × 25	III.
17	U. 12594	Tablet. Flat + convex. Account (bread?).	70 × 65 × 30	III.
18	U. 12505	Fragment. Account (monthly victuals?).	—	III.
19	U. 12538	Large fragment (73 broad). Account of fish and poultry.	—	III—B.
20	U. 12596	Tablet. Flat + convex. Land ...	82 × 66 × 29	IV.
21	U. 12595	Fragment. Account (ropes or thread).	—	IV.
22	U. 12583	Tablet. Flat + convex. Account (bread and beer).	61 × 55 × 24	IV.
23	U. 12598	Tablet. Flat + convex. Account (with reference to a list of establishments. Commodity not named).	7 × 66 × 31	IV.
24	U. 12589	Tablet. Flat + convex. Account (sheep).	88 × 80 × 35	IV.
25	U. 12593	Tablet. Flat + convex. Account (reeds).	62 × 55 × 22	IV.
26	U. 11695	Fragment (very small writing: fragment 30 × 30 × 25). Account.	—	IV.
27	U. 12579	Large fragment of land account (c. 115 long).	—	V.
28	U. 12599	Tablet. Slightly convex both sides. Account (beer).	58 × 56 × 24	V.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
29	U. 12592	Fragment. Account (corn and meal).	—	V.
30	U. 12597	Tablet. Flat + convex. Account (cattle).	87 × 73 × 30	V.
31	U. 12588	Fragment. Account (wheat) ...	—	V.
32	U. 12802	Tablet. Obv. more convex than rev. Account (meal, barley, beer).	55 × 50 × 22	VI.
33	U. 12803	Small fragment of large tablet (47 thick). Account.	—	VI.
34	U. 12804	Tablet. Flat + convex. Account	67 × 60 × 27	VI.
35	U. 12513	Fragment. Account ... ..	—	VI.
36	U. 12801	Fragment. Account ... ..	—	VI.
37	U. 12506	Tablet. School. Slightly convex + flat. (Exercise in numerals?) With rev. cf. F. Sch. 13 rev.	60 × 56 × 17	VI—A.
38	U. 12514	Fragment. Account (beer) ...	—	VI.
39	U. 12519	Fragment. Account ... ..	—	VI.
40	U. 12515	Fragment. Account ... ..	—	VI.
41	U. 12509	Fragment. Account ... ..	—	VI.
42	U. 12517	Note or label ... ..	50 × 60	VI.
43	U. 12512	Do. ... ..	48 × 45	VI.
44	U. 12522	Do. ... ..	44 × 40	VI.
45	U. 12531	Tablet. Flat + convex. Account (beer and ?).	57 × 55 × 28	VII.
46	U. 11691	Tablet. Rev. slightly flatter than obv. Account (meal ?).	60 × 50 × 22	VII.
47	U. 12507	Tablet. Slightly convex both sides. Account (goats).	47 × 40 × 21	VII—B.
48	U. 12508	Tablet. Convex + convex. Account (baskets).	40 × 37 × 22	VII.
49	U. 12510	Tablet. Convex + convex. Account (beer).	43 × 43 × 23	VII—E.
50	U. 12511	Flattened spheroid. Account (bread).	38 × 38 × 27	VII.
51	U. 12516	Tablet. Slightly convex + flatter. Account (meal). Rosette on rev. Cf. F. Sch. 39 rev.	(50 ?) × 45 × 22	VII—C.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
52	U. 12518	Tablet. Slightly convex both sides. Account (bread, oil, beer).	60 × 54 × 24	VII.
53	U. 12520	Tablet. Irregular: approximately convex + flat. Account (bread, beer).	64 × 62 × 32	VII.
54	U. 12523	Note or label (beer) ... ..	60 × 45 × 22	VII.
55	U. 12521	Tablet. Nearly flat + convex. Account (bread).	55 × 46 × 27	VIII.
56	U. 12524	?	68 × 70 × 22	VIII.
57	U. 12526	Tablet. Nearly flat both sides. Account (meal?).	45 × 45 × 21	VIII.
58	U. 12527	Tablet. Flat + very convex. Account (bread, beer, barley).	38 × 43 × 32	VIII.
59	U. 12528	Tablet. Convex + irregular. Account (beer).	40 × 35 × 22	VIII.
60	U. 12529	Tablet. Slightly convex + more convex. Account (bread and beer).	48 × 44 × 21	VIII.
61	U. 12530	Tablet. Nearly flat + convex. Account (beer).	50 × 42 × 21	VIII—E.
62	U. 12532	Tablet. Irregular: nearly flat + convex. Name list.	57 (and 40) × 55 × 30	VIII.
63	U. 12533	Tablet. Flat + slightly convex. Name list? About JN period. Int. IV (a).	72 × 60 × 27	VIII—A.
64	U. 12534	Tablet. Flat + very convex. Account (beer, malt). Writing similar to preceding.	58 × 52 × 30	VIII—A.
65	U. 12535	Tablet. Flat + convex. Account (bread).	62 × 55 × 22	IX.
66	U. 12536	Tablet. Flat + convex. Account (various victuals: scheme not clear).	100 × 95 × 33	IX.
67	U. 12565	Tablet. Slightly convex both sides. Account (timber).	60 × 53 × 33	IX.
68A	U. 12582	Fragment. Account (barley). Perhaps lower part of 68B.	—	IX.
68B	U. 12582	Fragment. Account (meal) ...	—	IX.
69	U. 12576	Fragment of school tablet. (85 × 70). Rev. broken away.	—	IX—B.



1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
70	U. 12578	Tablet. Slightly convex both sides. Account or name list.	97 × 87 × 27	X—B.
71	U. 12580	Tablet. Flat + convex. Account (bread).	65 × 55 × 28	X.
72	U. 12585	Tablet. Nearly flat + convex. Account. (Much defaced : offerings ?).	70 × 60 × 27	X.
73	U. 12591	Tablet. Slightly convex + flat. Account (corn).	(60 ?) × 35 × 17	X.
74	U. 12805	Fragment. Account ... ..	—	X.
75	U. 12806	Fragment. Account (?) ... ..	—	X.
76	U. 12807	Fragment. Account (meal) ...	—	X.
77	U. 12808	Fragment. Account ... ..	—	X.
78	U. 12809	Fragment. Account ... ..	—	X.
79	U. 12811	Fragment. Land ... ..	—	X.
80	U. 12566	Fragment. Account (for " Sheep Shearing ").	—	X.
81A	U. 12816	Fragment. Land ... ..	—	X.
81B	U. 12816	Fragment (doubtful whether part of 81A).	—	X.
82	U. 12815	Tablet. Flat + convex. Land	55 × 45 × 24	X.
83	U. 12812	Tablet. Slightly convex + flat. Account (meal, corn).	63 × 47 × 20	XI.
84	U. 12814	Fragment. Account or name list	—	XI.
85	U. 12813	Fragment. Account (meal and ?)	—	XI.
86	U. 12825	Fragment. Account (bread) ...	—	XI.
87	U. 12819	Fragment of large tablet (87 broad, 36 thick). Land.	—	XI.
88	U. 12822	Tablet. Flat + convex. Account (bread, meal).	65 × 60 × 27	XI—B.
89	U. 12817A	Fragment. Land ... ..	—	XII.
90	U. 12817C	Fragment. Account (meal, barley ?).	—	XII.
91	U. 12817B	Fragment. Account ... ..	—	XII.
92	U. 12823	Fragment. Account ... ..	—	XII.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
93	U. 12824	Tablet. Flat + convex. Account (bread and beer: offerings).	77 × 73 × 32	XII—B.
94	U. 12829	Fragment. Land ... ..	—	XII.
95	U. 12826	Tablet. Slightly convex + flat. Account (corn).	70 × 57 × 24	XII—C.
96	U. 12830	Fragment. Account (beer) ...	—	XII.
97	U. 12833	Fragment. Account ... ..	—	XII.
98	U. 12828	Fragment of large tablet (37 thick). Land.	—	XIII.
99	U. 12832	Tablet. Flat + convex. Account (bread).	74 × 60 × 27	XIII.
100	U. 12831	Fragment. Account (bread and beer).	—	XIII.
101	U. 12834	Tablet. Flat + convex. Account (logs for water machine).	71 × 61 × 29	XIII.
102	U. 12835	Tablet. Flat + convex. Land ...	66 × 58 × 25	XIII.
103	U. 12836	Tablet. Flat + convex. Account (water machine).	51 × 46 × 22	XIII.
104	U. 12838	Tablet. Flat + convex. Land ...	67 × 60 × 27	XIV.
105	U. 12837	Tablet. Flat + convex. School (list of gods).	66 × 55 × 24	XIV.
106	U. 12839	Fragment. Land ... ..	—	XIV.
107	U. 12847	Tablet. Flat + slightly convex. Account (beer).	60 × 51 × 21	XIV.
108	U. 12841	Fragment of large tablet (36 thick). Land. Col. I, cases 1-3, joins to 153 III, last 3 cases.	—	XIV.
109	U. 12842	Fragment of large tablet (87 broad, 35 thick). Land.	—	XIV.
110	U. 12849	Fragment. Account ... ..	—	XIV.
111	U. 12845	Fragment. Land ... ..	—	XIV.
112	{ U. 12581 + U. 12586 + U. 12587 + U. 12810 + U. 12818A	Parts of large tablet ... .. Flat + convex. Most of existing text consists of proper names, followed in some instances by other terms, partly titles and partly places.	135 × (125 + ?) × 36	XV.
113	U. 12818 B to G.	Six fragments of land document(s)	—	XV.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
114	U. 12854	Fragment. Account (bread) ...	—	XV.
115	U. 12844	Tablet. Both sides irregular convex. Account (skins).	50 × 36 × 22	XVI.
116	U. 12843	Tablet. Both sides irregular convex. Land.	67 × 63 × 26	XVI.
117	U. 12848	Tablet. Flat + slightly convex. Land.	64 × 57 (?) × 26	XVI.
118	U. 12846	Fragment. Account ...	—	XVI.
119	U. 12852	Tablet. Slightly convex both sides. Account (bread and beer).	89 × (63 + ?) × 32	XVI.
120	U. 12584	Fragment. Account (bread) ...	—	XVI.
121	U. 12872	Fragment ...	—	XVI.
122	U. 12850	Tablet. Flat + convex. Land ...	64 × 55 × 27	XVI.
123	U. 12851	Tablet. Flat + convex. Account	56 × 50 × 22	XVI.
124	U. 12856	Fragment. Account ...	—	XVI.
125	U. 12859	Fragment. Account ...	—	XVI.
126	U. 12857	Tablet. Flat + convex. Account or name list.	65 × 55 × 20	XVI.
127	U. 12863	Tablet. Flat + convex. Account (scheme not clear).	82 × 72 × 27	XVII—D.
128	U. 12853	Fragment. Land ...	—	XVII.
129	U. 12871	Fragment. School? ...	—	XVII.
130	U. 12855	Fragment. Account (meal) ...	—	XVII.
131	U. 12861	Fragment of school tablet. 192 is probably preceding column of same.	—	XVII.
132	U. 12858	Fragment. Account (barley, beer, malt).	—	XVII.
133	U. 12880	Fragment. Account (bread and beer).	—	XVII.
134	U. 12877	Fragment of school tablet. (Cf. F. Sch. 20 VIII 6, 12).	—	XVII— XVIII.
135	U. 12873	Fragment. Account (beer) ...	—	XVII.
136	U. 12874	Fragment. Land ...	—	XVII.
135 bis	U. 12860	Fragment. Land ...	—	XVIII.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
136 bis	U. 12865	Fragment. Account ... ..	—	XVIII.
137	U. 12862	Tablet. Flat + convex. Account (bread).	65 × 50 × 26	XVIII.
138	U. 12868	Fragment. Joins top of 235 ...	—	XVIII.
139	U. 12870	Fragment. Account ... ..	—	XVIII.
140	U. 12864	Fragment. Land ... ..	—	XVIII.
141	U. 12876	Fragment. Land ... ..	—	XVIII.
142	U. 12866	Tablet. Flat + convex. Account	68 × 62 × 25	XVIII.
143	U. 12867	Tablet. Flat + convex. Land...	82 × 73 × 34	XVIII—C.
144	U. 12879	Fragment. Account (emmer) ...	—	XVIII.
145	U. 12883	Fragment. Account (bread and beer).	—	XIX.
146	U. 12881	Fragment. Account ... ..	—	XIX.
147	U. 12869	Fragments. Land ... ..	—	XIX.
148	U. 12882	Fragment ... ..	—	XIX.
149	U. 12875	Fragment. Account (oil ?, bread)	—	XIX.
150	U. 12878	Fragment. Account (meal) ...	—	XIX.
151A	U. 12884A	Fragment. Land ... ..	—	XIX.
151B	U. 12884B	Fragment. Possibly bottom of 151A.	—	XIX.
152	U. 12885	Fragment. Land ... ..	—	XIX.
153	U. 12889B	Fragment. Land. 108 joins to Col. III.	—	XIX.
154	U. 12888A	Fragment. Account ... ..	—	XIX.
155	U. 12889A	Fragment. Land ... ..	—	XIX.
156	U. 12887	Fragment. Account (offering) ...	—	XIX.
157	U. 12896	Fragment. (Probably rev. ; obv. broken away). Large sign UB (pentacle).	—	XIX.
158A	U. 12893A	Fragment. Account ... ..	—	XIX.
158B	U. 12893B	Fragment. Account (meal) ...	—	XIX.
159	U. 12892	Tablet. Flat + convex. Account (food).	55 × 43 × 19	XIX.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
160	U. 12898	Tablet. Flat + convex. Land...	55 × 47 × 22	XIX.
161	U. 12894	Tablet. Flat + convex. Land...	60 × 52 × 22	XIX.
162	U. 12890	Large fragment of tablet. Account (cereals, etc.).	100 × (90 ?) × 33	XX.
163	U. 12891	Tablet. Flat + convex. Land	95 × 80 × 37	XX—C.
164	U. 12895	Fragment. Land ... ..	—	XX.
165	U. 12897	Fragment ... ..	—	XX.
166	U. 12900	Tablet. Slightly convex both sides. Account (bread).	48 × 46 × 27	XX.
167	U. 12899	Tablet. Obv. rather more convex than rev. Account (bread).	66 × 57 × 27	XX.
168	U. 12901	Tablet. Flat + convex. Land...	102 × 91 (?) × 33	XXI.
169	U. 12902A	Fragment of school tablet. Right joins left of 182B.	—	XXI.
170	U. 12905	Tablet. Flat + convex. Account	76 × 69 × 30	XXI.
171A	U. 12903A	Fragment. Land ... ..	—	XXI.
171B	U. 12903B	Fragment. Doubtful whether belonging to 171A.	—	XXI.
172	U. 12909	Fragment. Account ... ..	—	XXI.
173	U. 12910	Fragment. Account ... ..	—	XXI.
174	U. 12902B	Fragment ... ..	—	XXI.
175	U. 12904	Tablet. Flat + convex. Land...	60 × 57 × 25	XXI.
176	U. 12908	Fragment. Account ... ..	—	XXI.
177	U. 12906	Tablet. Flat + convex. Ac- count (meal, scheme not clear).	77 × 67 × 26	XXII.
178	U. 12907	Tablet. Flat + convex. Account (bread ?).	64 × 53 × 26	XXII.
179	U. 12921	Fragment. Account (emmer ? and beer).	—	XXII.
180	U. 12920	Fragment. Account (bread) ...	—	XXII.
181	U. 12912	Fragment. Land ... ..	—	XXII.
182A	U. 12911A	Fragment. Account (meal) ...	—	XXII.
182B	U. 12911B	Fragment of school tablet. Joins 169.	—	XXII.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
183	U. 12913	Tablet. Flat + convex. Account (meal).	77 × 61 × 28	XXII—C.
184	U. 12914	Tablet. Flat + convex. Land.	77 × 67 × 27	XXIII.
185	U. 12916	Tablet. Nearly flat both sides. Account (meal).	80 × 69 × 32	XXIII.
186	U. 12915	Tablet. Flat + convex. Account (cattle).	67 × 62 × 22	XXIII.
187	U. 12917	Fragment. Land ... ..	—	XXIII.
188	U. 12918	Fragment. Account (barley ?) ...	—	XXIII.
189	U. 12919	Fragment. Account ... ..	—	XXIV.
190	U. 12929	Fragment. Account (meal) ...	—	XXIV.
191	U. 12932	Fragment. Land ... ..	—	XXIV.
192	U. 12930	Fragment of school tablet. 131 probably joins to the right.	—	XXIV.
193	U. 12933	Four fragments. A, C and D perhaps belong to the same tablet. Land.	—	XXIV.
194	U. 12928	Fragment. Account ... ..	—	XXIV.
195	U. 12931	Fragment. Account (bread and beer).	—	XXIV.
196	U. 12934	Three fragments, perhaps belonging together [C, which has preserved one surface only, may be reverse of the others].	—	XXIV.
197	U. 12935	Fragment. Account ... ..	—	XXIV.
198	U. 12947	Fragment. Account (corn) ...	—	XXIV.
199	U. 12936 + U. 12944	Tablet. Flat + very convex. Account (bread, beer, barley).	75 × 65 × 36	XXV.
200	U. 12955B	Fragment. Account (malt, beer).	—	XXV.
201	U. 12937 + U. 12961A	Tablet. Both sides nearly flat. Account (meal: in relation to land: not clear).	63 × 55 × 25	XXV.
202	U. 12939	Fragment. Land ... ..	—	XXV.
203	U. 12940	Tablet. Flat + nearly flat. Account.	65 × 55 × 27	XXV.
204	U. 12943	Fragment. Land ? ... ..	—	XXV.
205A	U. 12941A	Fragment. Account (meal) ...	—	XXV.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
205B	U. 12941B	Fragment (probably not connected with 205A).	—	XXV.
206	U. 12942	Tablet. Flat + convex. Land	66 × 56 × 25	XXVI.
207	U. 12946	Fragment. Account ...	—	XXVI.
208	U. 12948	Fragment. Land ...	—	XXVI.
209	U. 12949	Fragment. Account (wood) ...	—	XXVI.
210	U. 12951A	Fragment. Account ...	—	XXVI.
211	U. 12960B	Fragment. Land ...	—	XXVI.
212	U. 12954	Tablet. Flat + convex (slightly). Account (wheat, beer, meal).	78 × 73 × 25	XXVI.
213	U. 12952A	Fragment. Land ...	—	XXVII.
214	U. 12952B	Fragment ...	—	XXVII.
215	U. 12956B	Fragment. Account (bread) ...	—	XXVII.
216	U. 12956A	Fragment. Account ...	—	XXVII.
217	U. 12955A	Fragment. Account (bread, beer).	—	XXVII.
218	U. 12959A	Fragment. Account ...	—	XXVII.
219	U. 12959B	Fragment. Account (malt) ...	—	XXVII.
220A	U. 12960C	Fragment. Account ...	—	XXVII.
220B	U. 12960D	Fragment. Account ...	—	XXVII.
221	U. 12968	Fragment. Account ...	—	XXVII.
222	U. 12957	Fragment. Account (meal, wheat).	—	XXVIII —D.
223	U. 12958	Fragment. Account (various ? cf. 237).	—	XXVIII.
224	U. 12969	Tablet. Flat + convex. Account (bread).	77 × 68 × 36	XXVIII.
225	U. 12967	Tablet. Flat + convex. Writing, numerals and scheme unusual.	85 × 75 × 36	XXVIII —D.
226	{ U. 12938 + U. 12951B + U. 12964	Tablet. Flat + convex. Land...	95 × 93 × 37	XXIX —D.
227	U. 12960A	Fragment. Land ...	—	XXIX.
228	U. 12961C	Fragment. Account (beer, malt).	—	XXIX.
229	{ U. 12961B + U. 12963	Tablet. Slightly convex both sides. Account (bread ?).	60 × 53 × 25	XXIX.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
230	U. 12962	Fragment. Account (reeds and nets).	—	XXIX.
231	U. 12966	Tablet. Flat + convex. Account (lambs).	80 × 65 × 28	XXX.
232	U. 13004	Tablet. Both sides slightly convex and irregular. Proper name. Most archaic script. From Pit G (cf. Int. IV), 8.5 m. below plano-convex pavement.	45 × 55 × 25	XXX—A.
233	U. 13088	Tablet. Shape and writing similar to 232. From Pit G, against outer face of terrace wall. Seal impression on rev.	57 × 40 × 25	XXX—A.
234	U. 12537	Large fragment (145 long) of school fish-list, duplicate of F.Sch. 9 and 10, with variations and complements.	—	XXX.
235	U. 12950 + U. 12953A	Large fragment (about 93 broad). Buildings and officials. 138 joins top.	—	XXX.
236	U. 13898	Fragment. Account (corn and land).	—	XXXI.
237	U. 13899	Tablet. Flat + convex. Account (goats, etc.; cf. 223?).	54 × 43 × 22	XXXI.
238	U. 13961	Fragment ... ..	—	XXXI.
239	U. 14548	Fragment ... ..	—	XXXI.
240	U. 13930	Fragment. Account or name list	—	XXXI.
241	U. 13986	Tablet. Slightly convex both sides. Account (wood).	53 × 53 × 24	XXXI.
242	U. 14713	Fragment. Name list ... ..	—	XXXI.
243	U. 14567	Tablet. Flat + convex. Account (beer).	48 × 40 × 19	XXXI.
244	U. 14898	Note. Proper name ... ..	—	XXXI.
245	U. 14135	Fragment ... ..	—	XXXI.
246	U. 14171	Fragment. Name list ? ... ..	—	XXXI.
247	U. 14172	Fragment. Account. On rev. faint indications of seal impression of JN type.	—	XXXI.
248	U. 14173	Fragment. Account or name list.	—	XXXI.
249	U. 14134	Irregular round piece, with scratchings (sealing?).	—	XXXI.



1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
250	U. 14715	Irregular round piece, with scratchings (sealing?).	—	XXXI.
251	U. 14714	Fragment of school tablet. (Cf. 131 + 192; but not part of this).	—	XXXI.
252	U. 14179	Tablet. Slightly convex both sides. Account (sheep).	80 × 70 × 27	XXXII —D.
253	U. 14180	Tablet. Flat + convex. Name list.	60 × 51 × 19	XXXII.
254	U. 14181	Tablet. Slightly convex both sides. Account.	60 × 55 × 22	XXXII.
255	U. 14502	Fragment. Account (cattle?) ...	—	XXXII.
256	U. 14507	Fragment. Account (flour?) ...	—	XXXII.
257	U. 14633	Fragment. Account ...	—	XXXII.
258	U. 14532	Fragment ...	—	XXXII.
259	U. 14549	Tablet. Flat + convex. Slaves.	73 × 64 × 27	XXXIII.
260	U. 14566	Tablet. Slightly convex both sides. Account (beer).	65 × 60 × 23	XXXIII.
261	U. 14712	Fragment. Account or name list.	—	XXXIII.
262	U. 14716 + U. 14717	Fragment of school tablet ... Joins bottom of 283, making tablet c. 20 long. Convex + flat.	—	XXXIII.
263	U. 14720	Irregular round piece with scratchings. Sealing?	—	XXXIII.
264	U. 14718 + U. 14728	Fragment of school tablet (c. 45 thick). Obv. = F. Sch. 33 II 7-12, III 6-8 (?)	—	XXXIII.
265	U. 14719	Fragment of round piece, with note. Sealing?	—	XXXIII.
266	U. 15009	Fragment of round piece, with proper name.	—	XXXIII.
267-270	Cancelled	—	—	—
271	U. 14721	Fragment. Account (victuals) ...	—	XXXIV.
272	U. 14722	Fragment of school tablet. Writing like 134, but doubtful whether connected.	—	XXXIV.
273	U. 14723	Tablet. Flat + convex. Account (harness?)	55 × 46 × 22	XXXIV.
274	U. 14724	Fragment. Top edge of large account tablet or name list.	—	XXXIV.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
275	U. 14726	Round piece with sign <i>ti</i> repeated 18 times.	5 × 5	XXXIV.
276	U. 14725	Fragment. Account (barley) ...	—	XXXIV.
277	U. 14727	Tablet. Flat + convex. Account (malt and another commodity).	45 × 42 × 18	XXXIV.
278	U. 14730	Tablet. Flat + convex. Account	62 × 55 × 27	XXXIV.
279	U. 14533	Tablet. Both sides slightly convex and irregular. Account (bread).	50 × 45 × 27	XXXIV.
280	U. 14729	Fragment. Account ...	—	XXXIV.
281	U. 14731	Tablet. Both sides nearly flat. Account (bread).	75 × 59 × 25	XXXIV.
282	U. 15012	Tablet (deformed by water) ...	—	XXXIV.
283	U. 15010	Fragment of school tablet. Joins top of 262.	—	XXXV.
284	U. 14897	Tablet. Both sides nearly flat. Account (meal).	65 × 60 × 20	XXXV.
285	U. 15005	Tablet. Obv. perhaps more convex than rev. Account.	50 × 37 × 23	XXXV.
286	U. 14702	Fragment. Account (flour ?) ...	—	XXXV.
287	U. 14844	Fragment of round tablet (45 × 45). Nearly flat + very convex. Account (?)	—	XXXV.
288	U. 15008	Fragment. Account (?) ...	—	XXXV.
289	U. 15007	Fragment. Account (cows) ...	—	XXXV.
290	U. 15004	Sealing. Proper name ...	—	XXXV.
291	U. 14840	Fragment. Land ...	—	XXXV.
292	U. 14121	Irregular piece, with sign (?) repeated. Sealing ?	—	XXXV.
293	U. 15006	Ditto	—	XXXV.
294	U. 15002	Fragment. Account (animals) ...	—	XXXV.
295	U. 14843	Tablet. Shape very irregular. Names.	—	XXXV.
296	U. 14899	Fragment. Name list ...	—	XXXV.
297	U. 15003	Fragment of school tablet (85 broad).	—	XXXV.
298	U. 14503	Tablet. Flat + convex. Account (goats).	47 × 47 × 16	XXXVI.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
299	U. 14895	Large fragment of School text. Col. I = F. Sch. 33, I 12 — II 10; Col. II = ditto III 9-18; Col. III = ditto IV 11-18 (?). Rev. has design (forelegs of animal against vegetation).	—	XXXVI.
300	U. 15001	Another fragment of same text = F. Sch. 33, III 8-9, IV 8-10, V 7-9. Hardly belongs to 299, unless order differs from that of F. duplicate. Rev. uninscribed.	—	XXXVI.
301	U. 14900	Another fragment of same text = F. Sch. 33, I 6-8, 10-12, II 9-10.	—	XXXVI.
302	U. 14839	Irregular deformed tablet. Names.	—	XXXVI.
303	U. 15013	Fragment. Account ... ..	—	XXXVI.
304	U. 15011	Fragment. Account ... ..	—	XXXVI.
305	U. 14501	Fragment. Account. From SIS VII.	—	XXXVI.
306	U. 14565	Fragment. Land. Very fine writing (frag. = 16 × 42). From SIS VII.	—	XXXVI.
307	U. 14890	Fragment. Account (bread). From SIS VIII.	—	XXXVI.
308	U. 7842	Fragment. Later period: Int. IV (c). Names. From preli- minary trial trenches; 2.75 m. below surface.	—	XXXVI.
309	U. 12976	Fragment. Account ... ..	—	XXXVII.
310	U. 8828	Fragment. Account (various). Later period: Int. IV (c).	—	XXXVII.
311	U. 14885	Sealing: with scratched markings	—	XXXVII.
312	U. 14132	Sealing: with proper name ...	—	XXXVII.
313	U. 14841	Sealing: with scratched signs ...	—	XXXVII.
314	U. 14104	Ditto ...	—	XXXVII.
315	U. 14606	Ditto ...	—	XXXVII.
316	U. 14704	Sealing: with seal impressions ...	—	XXXVII.
317	U. 14190	Ditto ...	—	XXXVII —F.
318	U. 13891	Ditto ...	—	XXXVIII.
319	U. 13905	Ditto ...	—	XXXVIII —F.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
320	U. 13944	Sealing: with seal impressions...	—	XXXVIII.
321	U. 14109	Ditto ...	—	XXXVIII.
322	U. 14188	Ditto ...	—	XXXVIII —F.
323	U. 14169	Ditto ...	—	XXXVIII.
324	U. 14170	Ditto ...	—	XXXVIII —F.
325	U. 14705	Ditto ...	—	XXXVIII.
326	U. 14838	Ditto ...	—	XXXVIII.
327	U. 14837	Ditto ...	—	XXXVIII.
328	U. 14842	Ditto ...	—	XXXVIII.
329	U. 14884	Ditto ...	—	XXXVIII.
330	U. 13943	Ditto ...	—	XXXIX.
331	U. 13903	Ditto ...	—	XXXIX.
332	U. 14103	Ditto ...	—	XXXIX.
333	U. 14706	Ditto ...	—	XXXIX.
334	U. 14836	Ditto ...	—	XXXIX.
335	U. 14877	Ditto ...	—	XXXIX.
336	U. 14892	Ditto ...	—	XXXIX.
337	U. 11680	Ditto ...	—	XXXIX.
338	U. 12	Fragment. Account ...	—	XXXIX.
339	U. 20081 (1)	Tablet. Nearly flat both sides. Account (meal).	64 × 56 × 23	XL.
340	U. 20081 (3)	Tablet. Flat + flat (irregular) ...	50 × 37 × 18	XL.
341	U. 20081 (5)	Fragment. Account ...	—	XL.
342	U. 20081 (7)	Ditto ditto ...	—	XL.
343	U. 20081 (10)	Ditto ditto ...	—	XL.
344	U. 20081 (30)	Ditto ditto ...	—	XL.
345	U. 20081 (4)	Ditto ditto ...	—	XL.
346	U. 20081 (31)	Ditto ditto ...	—	XL.
347	U. 20081 (11)	Ditto ditto ...	—	XL.
348	U. 20081 (13)	Ditto ditto (meal) ...	—	XL.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
349	U. 20081 (15)	Fragment. Account ... ..	—	XLI.
350	U. 20081 (14)	Ditto ditto ... ..	—	XLI.
351	U. 20081 (33)	Ditto ditto ... ..	—	XLI.
352	U. 20081 (12)	Ditto ditto ... ..	—	XLI.
353	U. 20081 (28)	Ditto ditto ... ..	—	XLI.
354	U. 20081 (8)	Ditto ditto ... ..	—	XLI.
355	U. 20081 (2)	Tablet. Both sides nearly flat. Account (meal).	52 × 43 × 18	XLI.
356	U. 20081 (27)	Two fragments of tablet. Flat + slight convex. Land.	(80 ?) × 68 × 30	XLII.
357	U. 20081 (23)	Fragment. Land ... ..	—	XLII.
358	U. 20081 (26)	Ditto ditto ... ..	—	XLII.
359	U. 20081 (19)	Ditto ditto ... ..	—	XLII.
360	U. 20081 (25)	Ditto ditto ... ..	—	XLII.
361	U. 20081 (24)	Ditto ditto ... ..	—	XLII.
362	U. 20081 (18)	Ditto ditto ... ..	—	XLII.
363	U. 20081 (22)	Ditto ditto ... ..	—	XLII.
364	U. 20081 (6)	Ditto ditto ... ..	—	XLIII.
365	U. 20081 (16)	Ditto ditto ... ..	—	XLIII.
366	U. 20081 (17)	Ditto ditto ... ..	—	XLIII.
367	U. 20081 (20)	Ditto ditto ... ..	—	XLIII.
368	U. 20081 (21)	Ditto ditto ... ..	—	XLIII.
369	U. 20081 (32)	Ditto ditto ... ..	—	XLIII.
370	U. 20081 (29)	Ditto ditto ... ..	—	XLIII.
371	U. 20081 (9)	Two fragments of tablet. Flat + convex. Land.	(about 120 × 95 × 42)	XLIV.
372	U. 20081 (34)	Fragment. School? ... ..	—	XLIV.
373	U. 12590	Defaced tablet (74 broad × 40 thick). Flat + convex. Metals.	—	XLIV.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
SUPPLEMENT.				
1	U. 13688	Tablet. Flat + convex. Account (metals). Provenance : see Introduction : Supplement : A.	50 × 50 × 23	XLV.
2	U. 13844	Tablet. Flat + convex. Name list. Provenance as 1.	50 × 50 × 23	XLV—E.
3	U. 13654	Fragment. Account (sheep). Provenance as 1.	—	XLV.
4	U. 13658	Fragment. Account (bread). Provenance as 1.	—	XLV.
5	U. 13648	Tablet. Rev. slightly flatter than obv. Account (barley). Provenance as 1.	35 × 35 × 18	XLV.
6	U. 13890	Tablet. Both sides slightly convex and irregular. From SIS II.	50 × 45 × 17	XLV.
7	U. 13806	Fragment. Flat both sides. Name list. From SIS I.	—	XLV.
8A	U. 13849	Fragment. Flat + convex. Account. From SIS I or II.	—	XLV.
8B	U. 13850	Fragment. Flat + convex. Account (barley). From SIS I or II.	—	XLV.
9	U. 13877	Fragment. Both sides nearly flat. Account (sheep). From SIS II.	—	XLV.
10	U. 13848	Tablet. Flat + very convex. Account. From SIS I or II.	—	XLV.
11	U. 13700	Tablet. Both sides nearly flat. Account. From SIS I.	50 × 45 × 15	XLV—E.
12	U. 13805	Fragment. Flat both sides and flat edge. Account or name list. From SIS I.	—	XLV—E.
13	U. 2860 (2)	Tablet. Flat + slightly convex. Account (goats : offerings).	65 × 65 × 23	XLVI.
14	U. 8826 (3)	Fragment. Account ...	—	XLVI.
15	U. 2860 (3)	Tablet. Slightly convex both sides. Account (ox : offering).	38 × 38 × 17	XLVI—E.
16	U. 11694	Fragment. Account (bitumen) ...	—	XLVI.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
17	U. 2860 (4)	Tablet. Slightly convex + nearly flat. Account (sheep : offering).	40 × 40 × 18	XLVI—E.
18	U. 15047	Tablet (defaced). Slightly convex both sides. [6 metres down.]	42 × 42 × 24	XLVI.
19	U. 10110	Tablet. Flat + slightly convex. Account (beer). [2.6 m. down.]	50 × 50 × 18	XLVII.
20	U. 12565B	Tablet. Flattened spheroid. Account (sheep).	45 × 45 × 35	XLVII—E.
21	U. 14131	Tablet. Slightly convex both sides. Account (meal). [5.5 m. down.]	50 × 50 × 22	XLVII.
22	U. 10122	Tablet. Slightly convex + more convex. Account.	40 × 40 × 27	XLVII.
23	U. 11664	Tablet. Flat both sides. Account (spice). [5 m. down.]	60 × 60 × 17	XLVII.
24	U. 13803	Fragment. Account ... ..	—	XLVII.
25	U. 13659	Fragment. Account. [2.2 m. down.]	—	XLVII.
26	U. 10121	Note. Nearly spherical. [4 m. down.]	25 × 25 × 17	XLVII.
27	U. 13650	Tablet. Nearly flat + flat. Account. [2 m. down.]	70 × 50 × 16	XLVIII.
28	U. 13804	Tablet. Both sides slightly convex. Account (spice ?).	43 × 43 × 19	XLVIII.
29	U. 10113	Tablet. Both sides slightly convex. Account (lard). [3 m. down.]	35 × 30 × 19	XLVIII.
30	U. 13649	Tablet. Both sides slightly convex. Account (cow hides).	(55) × 45 × 22	XLVIII.
31	U. 13835	Tablet. Slightly convex + nearly flat. Account.	35 × 30 × 16	XLVIII.
32	U. 7844	Fragment. Names ... ..	—	XLVIII.
33	U. 2860 (5)	Tablet. Flat + convex. Slave list	65 × 42 × 22	XLVIII.
34	U. 10120	Note. Both sides nearly flat ...	35 × 40 × 15	XLVIII.
35	U. 2860 (6)	Tablet. Both sides slightly convex. Account (ducks : offering).	38 × 38 × 18	XLVIII.
36	U. 2860 (7)	Tablet. Account (goat : offering).	32 × 32	XLIX.
37	U. 2860 (8)	Tablet. Both sides slightly convex. Account.	34 × 32 × 18	XLIX.

1 Publication Number	2 Field Catalogue Number	3 Nature of Inscribed Object	4 Dimensions (mm.)	5 Plate
38	U. 2860 (9)	Tablet. Both sides slightly convex. Account (ox : offering).	35 × 35 × 19	XLIX.
39	U. 2860 (10)	Tablet. Account (sheep and goats : offering).	40 × 40 × 19	XLIX.
40	U. 2860 (11)	Tablet. Both sides slightly convex. Account (sheep : offering).	33 × 33 × 18	XLIX.
41	U. 2860 (12)	Tablet. Account (sheep) ...	38 × 38 × 18	XLIX.
42	U. 2860 (13)	Tablet. Both sides slightly convex. Account (sheep and goats : offering).	33 × 33 × 17	XLIX.
43	U. 2860 (14)	Tablet. Both sides slightly convex. Account (offering).	40 × 37 × 17	XLIX.
44	U. 2860 (15)	Tablet. Flat + convex. Account (goats : offering).	60 × 60 × 21	XLIX.
45	U. 2860 (16)	Tablet. Flat + convex. Account (animals : offering).	65 × 65 × 25	XLIX.
46	U. 2860 (17)	Tablet. Flat + convex. Account (animals : offering).	85 × 85 × 23	L.
47	U. 2860 (18)	Tablet. Flat + convex. Account (oxen : offering).	56 × 56 × 22	L.
48	U. 2860 (19)	Fragment. Account ...	—	L.
49	U. 2860 (20)	Fragment. Name list ...	—	L.
50	U. 2860 (1)	Tablet. Both sides slightly convex. Account (various).	32 × 28 × 14	L.
51	{ U. 13815 + U. 13854 + U. 13865 }	Seal impression. From SIS II ...	—	L—F.
52	U. 13889	Seal impression. From SIS II ...	—	L—F.
— —	{ U. 12827 U. 12840 }	Fragmentary tablets of collection, 1928–29 : cited but not copied.	—	—
—	U. 14896	Seal impression from collection, 1929–30 ; not to hand, but frequently cited from copies and photographs. To be published by Dr. Legrain. (Cf. <i>Ant. Jour.</i> X, pl. 50, 1 ; and duplicate XIII, pl. 64).	—	—
—	U. 18372	Tablet of 1931–32 : not to hand, but cited from photograph.	—	—



## INDEX TO ASSYRIAN SIGNS

(corresponding with those in the following Sign List).

𐎶	1	𐎶	22	𐎶𐎶	87	𐎶𐎶𐎶	379
𐎶𐎶	2	𐎶𐎶𐎶	15-17	𐎶𐎶𐎶	356	𐎶𐎶𐎶	314
𐎶𐎶	84	𐎶𐎶𐎶	41	𐎶𐎶	333	𐎶𐎶	104 f.
𐎶𐎶𐎶	222	𐎶𐎶𐎶	23	𐎶𐎶	7	𐎶𐎶	350
𐎶𐎶𐎶	224	𐎶	45, 252	𐎶𐎶𐎶	8	𐎶𐎶𐎶	353
𐎶𐎶𐎶𐎶	225	𐎶𐎶𐎶𐎶	50	𐎶𐎶𐎶	162, 164	𐎶𐎶𐎶𐎶	354
𐎶𐎶𐎶	226	𐎶	20	𐎶𐎶	338	𐎶𐎶𐎶	407
𐎶𐎶𐎶	3, 4, 5	𐎶𐎶	46	𐎶𐎶	363	𐎶	392
𐎶𐎶𐎶𐎶	56	𐎶𐎶	34	𐎶𐎶𐎶	77	𐎶𐎶	406
𐎶	117	𐎶𐎶𐎶	38	𐎶𐎶𐎶	346	𐎶𐎶	411
𐎶	6	𐎶𐎶𐎶	63	𐎶𐎶	85	𐎶𐎶	317
𐎶𐎶	233	𐎶𐎶𐎶	37	𐎶𐎶	47 f.	𐎶𐎶𐎶	319
𐎶𐎶	231	𐎶𐎶𐎶	258	𐎶𐎶	415	𐎶𐎶𐎶	357
𐎶𐎶𐎶	234	𐎶𐎶𐎶	255	𐎶𐎶	311	𐎶𐎶𐎶	269
𐎶𐎶	336	𐎶𐎶𐎶	58	𐎶𐎶𐎶	138, 298, 307	𐎶𐎶𐎶𐎶	325
𐎶𐎶𐎶	337	𐎶𐎶𐎶𐎶	60	𐎶𐎶𐎶	302	𐎶𐎶𐎶	362
𐎶𐎶𐎶	308	𐎶𐎶	281	𐎶𐎶𐎶	299	𐎶	72
𐎶𐎶𐎶𐎶	309	𐎶	40, 217	𐎶𐎶	125	𐎶	312
𐎶𐎶	52, 53	𐎶𐎶	62	𐎶𐎶	128	𐎶𐎶	73
𐎶𐎶𐎶	199	𐎶𐎶	296	𐎶𐎶	71	𐎶𐎶	310
𐎶𐎶𐎶𐎶	18	𐎶𐎶	249	𐎶𐎶𐎶	370	𐎶𐎶	239
𐎶𐎶	205, 286 f.	𐎶𐎶	361	𐎶𐎶𐎶	103	𐎶𐎶	78
𐎶𐎶	75	𐎶𐎶	61	𐎶𐎶𐎶	103	𐎶𐎶	89
𐎶𐎶𐎶	98, 133	𐎶𐎶	331	𐎶𐎶𐎶	341	𐎶𐎶𐎶	348
𐎶𐎶𐎶	131	𐎶𐎶	343, 347	𐎶𐎶𐎶	66	𐎶𐎶𐎶	367
𐎶	126	𐎶𐎶	36	𐎶𐎶𐎶	68	𐎶𐎶	365
𐎶𐎶	147	𐎶𐎶	65	𐎶𐎶𐎶	335	𐎶𐎶	297, 359, 371
𐎶𐎶	26	𐎶𐎶	30	𐎶𐎶𐎶	334 bis	𐎶𐎶𐎶	360
𐎶	139, 390	𐎶𐎶	35	𐎶𐎶𐎶	376	𐎶𐎶𐎶	91
𐎶𐎶𐎶𐎶	259	𐎶𐎶𐎶	228	𐎶𐎶𐎶	382	𐎶𐎶𐎶	368 f.
𐎶𐎶𐎶𐎶	256	𐎶𐎶𐎶	275 f.	𐎶𐎶𐎶	380	𐎶𐎶𐎶𐎶	108 b.
𐎶𐎶𐎶	118	𐎶𐎶𐎶	32	𐎶𐎶	374	𐎶𐎶𐎶	92
𐎶𐎶	204	𐎶	64	𐎶𐎶	378	𐎶𐎶	326 f.
𐎶	9	𐎶𐎶	86	𐎶𐎶	161	𐎶𐎶𐎶	328

	59		418		155		289
	257		130		141		260
	273		132		120		384, 385, 386
	229		148		121		264, 272
	236		35		146		274
	10 f.		149-151		146		III
	12		152		381		266
	158		195		221		373
	102		196		175		167
	101		197		168		397
	93 f.		198 b.		185, 240		401
	95		247		243		291
	28, 79		193		244		398
	107		143		190		393
	88		187		220		408
	288		184		154		399
	210		189		191		123
	109, 278		388 f.		144		206
	156		188		19		394
	404		192		182		283
	245		161		180		284
	29		179		292		416
	108		177		293		82
	96		163		295		207
	160		171		261		202
	124		161		263		285
	90		173		265		280, 339
	414		172		267		396
	116		181		271		

## SIGN LIST

References are generally given to the Name List (PN), and to the classified references in Introduction, Section V :—

- |                              |                         |
|------------------------------|-------------------------|
| A. Animals : p. 6.           | J. Fields : p. 12.      |
| B. Cereals : p. 7.           | K. Rivers: p. 13.       |
| C. Garden vegetables : p. 9. | L. Buildings : p. 13.   |
| D. Trees : p. 9.             | M. Occupations : p. 14. |
| E. Reeds : p. 11.            | N. Feasts : p. 18.      |
| F. Spices : p. 11.           | O. Gods : p. 19.        |
| G. Metals : p. 11.           | P. Places : p. 21.      |
| H. Artifacts : p. 11.        |                         |

## CORRIGENDA.

In this sign list the following Corrigenda should be noted :—

Plate 12, No. 143, *read* 𐎶 in the third column.


















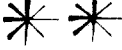



Plate 26, No. 325, *read* 𐎶𐎶𐎶 in the third column.

Plate 36, H, *read* “ possible ” *for* “ possibly ” in the third line from the end of the section.

PLATE I.

# S I G N L I S T

for the Principal Collection (nos. 1-373), an index to which is provided by the references. References to the Supplement are included only in special cases.

1	 	In PN 87, 221, 223, 719; dil-bad: Int.V, H(2); as numeral. PN 222; aš-aš: 274 ii(?).	
2		hal-hal: 129, 3; 186 ii. pap-hal: 372 i.	
3		234 ii (fish) Cf. S.5.	
4		226 vii and often; 345 ii. Cf. S.5.  93 iii; 168 v;	"
5		305 i;  109 i;  47 i;  62 i;  87 ii. S.3, S.4, S.5 are the same; S.3 school form (cf. Int. IV(1)), S.4 and S.5 less abstract. S.4 and S.5 are used indifferently in PN. S.5, resembling a  , is the origin of GÍR-TAB PN 14, 15, 110, 321-326, 471, 623, 709 (all gír-gal); 327, 655(?).	"
6		In divine names or as determinative: Int.V, O(2), cf. (3). PN 83, 86, 88, 89, 90, 107, 135, 139b, 148, 150-159, 215, 226-253, 298, 392, 398b, 463, 514, 560, 608, 620, 686, 708, 720-729, 733, 741. é-AN: 93 ii cf. Int.V, L(i). dam(?) - dingir: Int.V, M(4). an-ta: 63 vi. gú-an-šù: see S.331. AN.SI(šì-an): in accounts 65 iii, 66 i, 162 iii (= šì-a, diri?). gíg(?) - an: 29 ii. Frag. 238.	
7		or   PN 184, 558.	

8		234 ii (star fish)	
9		še-nu-bad : 198 ii;      dil-bad : Int.V, H(2)	
10		128v, 193A, 305 i       168 ii.    PN 41, 324, 485, 751.	
11		PN 322, 449, 657, 661, 662, 670; cf. S.13. PAP-ŠEŠ: Int.V, M(57).	“
12		normally.  53 i; G1.  42; 55 i. only in 3 ii; and  2 v, F. period. ŠEŠ+NA(cf. S 22) = nanna (invariably without dingir). In qān-nanna, Int.V, J(iii);    PN 39, 185, 393, 545-557, 631; 737, 745;    title, Int.V, M(30).	
13		PN 323, 503, 663-669, 674. [cf. SAK 6(h)34]	
14		passim. Seal impression  337; cf. 323, 330, 335; cf.  333. [ 310 iii, iv  later.] urī: 51 iii, 83 i, 93 ii, 95 i, 178 i; d.nin-urī: 105 i;    PN 33, 599, 754, 756; PA-urī: 9 i, cf. Int.V, M(52).	
15		PN 610, 645, 647	
16		sealing, U.14896.      Probably = S.15; cf. JN 17 and 50, thus = PN 647.	“
17		in SIR-BUR-LA: 205 B.      Sealing  324, in PN 336.	“
18		and similar.    PN 676-678.	
19		and similar. PN 161, 260, 587b(?), 679-681b, 768(cf. Int.V, M(44)).    anšū-dungi: 127 i 7. On these signs cf. Int.V, A(4).	
20		more frequent forms; also ; and intermediate 2 v, F. type.      PN 151, 210, 262, 277, 312,	

PLATE 3.

		341, 443, 447, 449, 514, 515, 516, 526, 535, 560, 582, 620, 628, 656. Titles: Int.V, M(5), (36)-(40). 1. ma-nu-nun: 105 i; lugal-Ki-nu-gi: 17 ii. NU.ŠU (meaning?) 226 iv, v, viii. nu-bad: 198 ii.	
21		S = F.Sch.63 iii 14. 168 ii, = PN 414 (where zag would suit (Int.V, M(21): but cf. S.158).	
22		127 ii;  274 i, ii;  127 i; 253;  237;  2 ii (F.type). 367 ii 7  : cancellation? PN 83, 206, 414, 422, 444, 451, 540-543, 555, 597(?), 733, 762, 763. ma-na: Int.V, G. Word in 237, 3.	
23		usually,  324. PN 9, 273, 307, 400, 530, 531, 621, 666, 671. sug-ti (place): 112 iii. 275:  17 times.	
24		277 Cf. F 47. Int.V, B(2)ii.	
25		= F.13. PN 602, 655. 158A, 3 with <u>šam</u> . Sign could be equivalent to <u>še</u> in last two instances: cf. S.66.	
26		PN 31, 90, 297, 424, 473, 480, 537, 574, 756, 761, titles: Int.V, M(9), (32).	
27		171A;  71 i, and the like. F 26? or F. 346(ašgab)? PN 772, 773; title: Int.V, M(77)	
28		PN 40, 68, 75, 150, 237, 295, 352, 421, 425, 440, 493-499, 528, 560, 594, 595, 659, 684, 732, 760, 775, 793. še-zì-ma-sir: 57. ma-gid: Int.V, D(2). ma-na: <del>ibid</del> . G	
29		and similar;  3 i. Certainly BALAG, PN 151, 208, 227, 773 all containing. Known combinations with BALAG. S. is virtually MA-GUNU. Cf. HÚL (rejoicing), apparently also gunu of MA: see S.274.	
30		9 i,  162 iii, and similar, c.18 times (cf. RA 24, 23 ), etc., passim.  3 ii. Cf.  20 i;  225 iv. Probably all <u>ši</u> . Extremely frequent in PN (cf. Int. VI): PN 20, 42, 57, 60, 61, 78, 82, 84, 85, 97, 98, 101, 102, 105, 117, 121, 125-128, 130, 133-138, 143, 186, 189b,	

		208, 211, 214, 255, 263, 267, 271, 274, 275, 282, 284, 292, 306b, 329, 335, 343, 344, 387, 402, 408, 429, 434, 441, 454, 461, 466, 467, 468, 477, 487, 492, 500, 505, 506, 511, 513, 519, 536, 585, 595, 598, 599, 611, 634, 640, 702, 743, 776, 788. Titles: 300 ii i; Int. V, M(51)(52)(56). Commodities: <i>ibid.</i> B(2)i, ii; fields, J(ii). an-si: see S. 6. Ša-si: see S. 193. Schooltext: 183.	
31		1.	
32		85 iii, etc. This, Sl...A, and A...Sl, transcribed <i>dirj</i> in PN 5, 59, 91, 220, 229, 247, 254, 285, 304, 464, 504, 548, 688.	
33		168 i;  167; etc. PN 370, 430, 497, 635, 637.	
34		19 iii;  27 iv;  252 ii; and similar.  109 v. [S. appears to give an origin for both HU and RI (cf. F. Wirths. p. 19* mid.); there would be analogous relation of S.30 to Sl and MA?] Birds: 19 iii, iv; 69 i, ii; 18 ii 4 (in title). PN 347 f., 517, 787. Gods: 27 iv; 105 ii.	
35		19 iii (poultry account).	
36		3 ii,  75,  66 ii, etc. PN 86, 195, 217, 219, 220, 259, 331, 409, 503, 547, 648, 685, 687, 690, 755.	
37	 	125,  etc. often. 47 i, ii: incomplete. PN 8, 77, 218, 227, 271, 351, 538. giš-mud: Int. V, D(i). 274 i; 350. PN 306 b, 351, 538, 567. NB. variants in PN 351 and probably 538. The sign added to HU may be GIŠ, in its two forms (cf. S. 312).	
38		224 i,  127, and similar.  287, et 290.  199 (twice). PN 241, 444, 445,  454, 481, 482, 544.	

















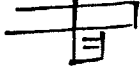





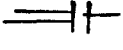




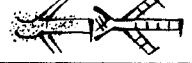







PLATE 5.

39		161 ii. Cf. F. 72.	
40		85 ii, iii = F. 46. Cf. Int. J(ii).	
41		20 i; etc.; ;  279 i;  2 (F. period). Še-numun: Int. V, B(1) i; numun-è: 2 iii, vi; PN 292 f.	
42		1.	
43		84 ii; 274 ii. PN 408.	
44		6 ii (PN 775). Cf. REC 20 bis. Cf. S 254.	
45		310 v (later period). 53 ii ? (PN 478)	
46		16 i, etc. Int. V, A(2).	
47		2 v (F. period) in N 210. Cf. 105 i (nom. dei). See S. 48	
48		passim, with ŠAR inserted;  305 iii. Without ŠAR: 153 ii (minute writing) and 325 (sealing). The composite S. appears to be equivalent to the simple sign (he, qán). F has transitional forms: F 62, F Sch. 64 ii 2, iv 1. PN 104, 111, 112, 231, 290, 291, 346, 474, 552, 572, 624, 689.	"
49		131: [ezen-]qán-qán[ ]. Cf. Int. V, N.	
50		248 ii (PN 356).	
51a		used with ninda	
b		, with ninda	
c		with ninda. Int. V, B(2) ii.	
52		259: slave list;  90. PN 205.	
53		PN 579 - 581; titles, Int. V, M(12), (35b); male animals, <i>ibid.</i> A; place, <i>ibid.</i> P(10); fish: 234-i.	"
54		2 vi (F. type). = F 59 51. PN. 776.	
55		18 ii (S. - á-mušen). = S. 54? Cf. Int. V, M(78).	
56		PN 44, 144, 752, 759. ušum-kù: 283 ii (school)	



57		163 iv 4.	
58		pass.  2 v (F type) •  3 ii. sealings:  (324),  (U.14896); cf. 313; cf. S.200 PN. 2, 8, 56 b, 95, 96, 97, 126, 132, 190, 227, 230, 271, 286, 467, 505, 531, 538, 584, 585, 659, 787 b. In nom. dei, 105 i, place.name, Int. V, P6), schooltexts: 69 i, ii; 182 B; 234; 299.	
59		PN 309, 728; 112 ü 8 (title?); 61 i 6 (school).	
60		271 i, ii (PN 194).	
61		,  ,  ,  , etc. pass: Int. V, J.	
62		etc., with rounded corner, pass.  51 ii; cf. 360 ii, 361 ii; , 1 (sealing).  70 ii; cf. 354 ii. PN 63-70, 111, 112, 141, 142, 226, 235, 243, 245, 246, 248, 251, 340, 459, 474, 546, 572, 619, 624, 677, 689, 739, 804. Terms of accountancy: šid-ag, see S 371; cf. ag: 67 i, 98 ii, 142 ii, 196 A.	
63		etc. passim.  310 ii (later). PN 56, 113, 219, 357, 358, 635, 680. Titles: Int. V, M(15)(72); sag-gál in names of buildings, <i>ibid.</i> L(ii); gál with še, zíz, ninda: <i>ibid.</i> B(1) i, ii, (2) ii.	
64		PN 248, 283, 535. šu-tab of fields, Int. V, J(ii).	
65		199 iv;  85 iii; etc.  310 (later): cf. 261 i 5? Measure: 85 iii, 258, 276, 310 iv; gur-ab: 199 iv, 224 iv. PN 377.	
66		177 iii; cf. 95 i;  158 A;  303; 252 edge.	
67		197 ii; 203 ii. PN 703, 777 f.	
68		285; and similar.  70 i. PN 231, 360, 673.	
69		37 i,  46 ii, etc. Int. V, B(2) i.	

PLATE 7.

70		29 ii,  29 i, etc. Int.V, B(2) i.	
71		,  usually.  280? PN 365, 427, 466. Offices: Int.V, M (15), (18). Animals: udu-du <sub>g</sub> , máš-du <sub>g</sub> : <u>Ibid</u> A. AB-QAB-SAR: <u>Ibid</u> . C.	
72		,  , passim (the former twice as frequent). Often slanted  ,  .  rare (c. 3 times). 2 ii (F. type):  . With usual form cf. Hoffman Tab. PN 32, 33, 157, 334, 335, 482, 586-601, 603, 639; and titles, Int.V, M(42)-(58).	
73		passim. Int.V, A (5). PN 107, 108, 172, 340, 342, 343, 344, 433, 434, 591, 720. Fish names: 234 ii. 310 i (later).	
74		apparently in PN 109, 173 (but cf. S. 343):	
75		184 iv,  253 i, and similar and intermediate forms. Int.V, J (iii). PN 2, 302, 338.	
76		234 i 14 (fish) = F. 25.	
77		PN 708-715 (transcribed um, but mes may be intended in some cases?).	
78		173 i, Int.V, H(3). PN 27b, 780	
79		PN 295, 659; where variants confirm identifica- tion with ma (Langdon, JN 48).	
80		U. 14896. (Cf. PN 314?)	
81		70 i (PN?)	
82a		 , passim.  108 ii.  353 i. PN 45, 188, 199b, 252, 308, 352, 451, 452, 760-764, 775.	
b		113 B (cf. PN 252); 190 i (?) (cf. PN 760). Also = za? (Or nuxuz: JN 240: but cf. S. 187).	
83		277, 2:	




















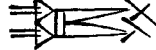

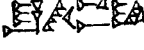






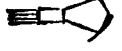
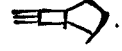












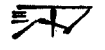




84		PN 554. 226 i 1 e <sub>g</sub> -tin (error?)	
85		109 iv 7 (i-sug). 226 viii 11 (i-lum).	
86		272 i (school): cf. F.Sch. 57 ii 4.	
87		PN 247.	
88		176 i,  248 ii,  247 ii,  92 i,  181 i; etc.  2 v (F type). PN 84, 102, 210, 228, 426, 460, 461.	
89		98 iv.  310? (later).	
90		177 ii. Usually  224, etc.  1 (sealing). PN 3, 4. 71-74, 80, 81, 275, 618, 619.	
91		34 i,  63 i; etc. PN 55, 195, 213, 456, 686, 746. 362 ii 2:  -a).	
92		112 ii 2. sukal: Int.V, M(59), (69b), (70).	
93		 44; 52; probably title with PN 759, and thus partly equivalent to S. 94.	
94		 . PN 644, and with PN 640, 759. Cf. F 156, but inserted sign not  .	"
95		passim; also  and similar, 38, 19 i, 150, and  73, 240 i, 310 ii (later). Int.V, B(i) ii. PN 348, 382, 768, 769.	
96		226 viii,  163 ii,  3 ii, etc. PN 215, 520; titles, Int.V, M(71)-(73). Šu-tab: see S. 64. Šu-nu: see S. 20. 69 i 5 (school)	
97		69 i 4. (school). (  I, sagil?)	
98		18 iv 4.	
99		1 (sealing). Left hand.	

PLATE 9.

100		322 (sealing). Left hand.	
101		pass.  63v.  310 iii, 308 (later). PN 10, 34, 46, 58, 96, 141, 142, 216, 217, 217b, 279, 331, 358, 361, 368, 407, 458, 462, 481, 483, 491, 502, 529, 556, 566, 620, 628, 664, 670, 694, 699, 712, 713, 728, 780, 784, 785.	
102		18 ii ( á-musen : Int.V, M 78).	
103	a. b. c. f.	PN 152, 211, 262, 263, 267, 327b, 370b, 379, 501, 509, 559, 560. ne-sag: Int.V, O(i). 18 iv 4. PN 74, 325, 326, 337, 363, 364, 416, 589, (590,) 601, 713, 798-800: <u>always with S.377</u> . = d.  = e.  in the frequent PN 164, (261). šû-bil (c and d): see S.193. 362,2. PN 167	 
104		81b; cf. 70 i, 276.  308 (later); 159 ii (?). PN 21, 378, 418.	
105		227, 246 ii. PN 378, 616. Apparently origin of preceding.	"
106		112 v; 264 i: = F. 159. Int.V, M 78b, P14.	
107		passim: also often with 5 parallels, and occasionally with 3 and 6. PN 7, 11, 14, 15, 15b, 44, 48, 110, 113, 124, 132, 144, 165, 172, 176, 224, 243, 275, 305, 321-326, 327b, 343, 357, 366b, (371), 388, 389, 393, 457, 471, 494, 523, 540, 551, 588, 623, 639, 651, 662, 678, 699, 705, 706, 709, 724, 751, 752, 753, 759, 766, 802, 805; titles: Int.V, M 13, 15b, 17c, 51, 67, 70, 71, 74-77, 78b, 80. é-gal: <u>ibid.</u> L(ii). gal-gal: of loaves (37 ii, 66 iii), vines (209), reeds (25 i, 230), fish (19 ii) Lú-gal under S.236.	
108		See S.131.	
108b		305 i: ú? (PN 370b): but cf. S.412.	

109		68 ii,  93 iii,  299 iii, 1 (sealing). PN 30, 70b, 521, 569. Int.V, M(35).	
110		13 ii. -S.109?	
111		234 ii; 253 ii;  112 ii. PN 656; Int.V, M(19); 234 ii (fish).	
112		67 i: as S.111: PN 400.	"
113		333 (sealing).	
114		165.	
115		19 i. (a-dug: of fish)	
115b		362 ii (ú-a: of corn)	
116		PN 103, 314, 315. 234. i (fish).	
117		PN 407, 482.	
118		203 i.  298. Int.V, A(1)(2).	
119		U. 14896.	
120		85 iii, and similar: PN 23, 247, 369, 417, 573, 744.	
121		240 ii. PN 419.	
122		70 i.  70 ii. PN 123, 418.	
123		226 viii,  77, etc. PN 383, 493, 541, 562. 310 iii (later): zú-lum.	
124		48 i,  112 v 8, etc.  U.14896 (S-Ki). PN 136-138, 163, 580b, 653b.	
125		PN. 192, 209, 448, 636, 638, 658, (319b?). gan - sum: 163 iii.	
126		. PN (490?), 602; pap-šeš, 27iv; 297 iv (school); 323(?); 353 ii: S-tuq-ša; 372 i, pap-hal; S.103 b, f.	
127		153 ii: PN 726.	

PLATE II.

128		in S 376; in S. 276 b(?)	
129		273 i = F 455 a. PN 780. Int. V, H(3).	
130		etc pass., also  .  64; 261 i. U 14896. Cf. also S. 25. Int. V, B(1) i. PN 35, 151, 433, 654-659. SE. SA: see following.	
131		[= SE(S. 130) + SA(JN 82) = LI], 143 iii;  (ligature), 51 i. Usually SE and SA, or SA and SE, with value <u>li</u> , are written separately. Ideogram from <u>harley</u> and <u>song</u> (cf. JN 81)? For the disjunction, cf. JN no. 124 iii with F 693 . 261 i: prob. SE-D = li: see S. 390. PN 296, 350, 406, 431, 643.	
132		170 i, etc.;  58; 142 ii;  162 iii. The last forms approximate to Hoffman III. 1. PN 130, 156, 446, 511, 722.	
133		155, etc. PN 36, 682. S-mušen: 69 iii.	
134		342 i,  199 i,  209 [cf. Hoffman □ 2],  241. Cf. following, and Int. V, D(1).	
135		52 i;  60. more original form of preceding? (= TUR) and LAGAB + GUD: thus umbrageous tree?). Cf. Int. V, D(1).	
136		93 iv. In 103 ii SU instead of ZU. In other cases sketchy. F. 218. PN 50, 499, 528.	
137		176 i. Cf. F 217. PN 51.	
138		and similar Int. V, C; J; nu-sar; ibid. M(38). PN 31, 198, 225, 244, 297, 481, 496, 692.	
139		Measure: 18 iii, 58, 134 i, 226 vii, viii; ezen-HAR-S., Int. V, N; PN 602; fish name, 234 ii. Cf. S. 390.	
140		22 ii. (KA + ZU?)	
141		274 ii: nim? Cf. PN 570.	

142		252 iii. It composite cf. F. 386: but read prob. <u>igi-nim ša</u> .	
142b		354 ii: PN 535. Ligature tab-šag?	
143		318 (sealing: <u>giš-erín(?)</u> )	
144		PN 227, 277, 345, 358. cf. S. 314	
145		,  1 (sealing).	
146	  	PN 48, 145-201, 697. [origin is JN 293: cf. JN no. 178 i 1 with PN 697.] PN 770f. 156 i.	 
147		,  Int. V, B (2) iii. PN 149, 213, 225, 654.	
148		,  Adjective to dug (Int. V, B 2 iv), <u>giš-ma</u> , <u>ma</u> (D2), <u>giš-gi</u> (E), <u>gu</u> (H2); verb (Int. VI); PN 68, 166, 212, 227, 265, 347, 470, 482, 594, 595, 646, 648, 659. Interchanges, in value <u>šir</u> , with S. 149, S. 151: cf. PN 227 with PN 151; PN 646 with PN 170; PN 659 with term in 57, 1; and variant in PN 482.	
149		238 (frag). cf. S. 150.	
150		,  PN 482.	
151		57. PN 151, 170.	"
152		51 i. PN 539.	
153		305 ii;  62 iii; 181 iii; 5 iv; 108 ii. Cf. AO 8860, RA 1927, p. 28. PN 158.	
154		232. = JN 133 (dul?) + a. PN 6. (dul2=dul?), 63 i. PN 395.	
155		23 i. Int. V, L ii.	
156		112 i, iv 9, 13 (d. S-Ki);  140 iii (ur-d. nin-S). S. = Agade  etc. (apud JN 403); and with d. nin-S cf. d. nin-S-ga (ibid.). In Agade and later	

PLATE 13.

		base of S. approximates to S.278; but not so here.	
157		153 i (ur-d. S). S.88? S.156?	
158		343 ii; 356 i. Int.V, M(10), (70).	
159		283 ii (school). Cf. F.Sch.19, rev.i, 12.	
160		70 ii: PN 108.	
161	(a)	<p>127 i 7: anšū-DUN.GI.</p> <p>Here are classified other signs related to ANŠU.</p> <p>(b)  9 ii =  34 iii =  112 v  =  235 v; all in same place-name  (Int.V, M 54, P 15). S. appears to be equivalent to ANŠU  without the "bridle", i.e. KIŠ: except that the second  example has ears separated, i.e. HUŠ (cf. c). (The incom-  plete name in 348 iii is best distinguished from this: cf. S.162)</p> <p>(c) HUŠ, apparently with meaning anšū (and šakan?) in  some cases, occurs also: 11 ii (PN 202?) ; 17 i  (PN 204) ; 17 i (PN 203) ; 32 ii (PN 202)  ; 65 ii (PA-anšū) . HUŠ=ANŠU is  explicable if HUŠ depicted the wild ass?</p> <p>(d)  98 i (PN 384: KA-ŠAKÁN).</p> <p>Broken signs in 76 i (cf. PN 472); 193 A (cf. PN 182).</p>	 
162		348 iii: incomplete place-name. S. either pirig orafj: = uru-az-ki (SL 131, 6)?	?
163		108 iii.  161 i. alim-(lim?-) ma. PN 75, 150.	
164		259 iii, iv. PN 784 f. az(a) [but the complement is a rather than za: cf. S.416]	
165		143 i: PN 786 f. (gir? cf. SL 423)	








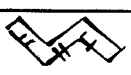













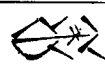

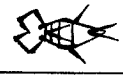


166		105 ii. nom.dei. School: intended for a(lim)?	
167		323, 330 (sealings). Cf F 357: but inserted S. is DÜ.	
168		354 ii: PN 567	
169		PN 101, 168, 301.	
170		109 iv. Cf. F 397 [ $\triangleleft$ =F $\triangleleft$ also in S180]. Or error: S169.	
171		274 ii, and twice. PN 24, 422.	
172		101; cf 103 i. Int. V, H(1).	
173		12 i and similar. 143 i 3 irreg. (ligature). PN 115, 234, 330, 371, 463, 673, 730. 72 iv with ne-sag. 143 iii 5 (meaning?). 148 (frag). 345 i 3 and iii 2 nu-gíg with this sign. Int V, M (5). (37). Thus this term originally contained gíg = mūšu, the independent sign nunuz being added subsequently (cf. nu-nunuz = sinništum). For the analysis of GIG cf. F. Sch. p 28, col 1, 17. For the omission of nunuz in the term nu-gíg cf. 348 iv, Lukur-zi- nanna, with the later writing Lukur-nunuz-zi-d. nanna: Int M 30, 65.	
174		117 (with qún).	
175	a.	66 and 3 other tablets.	
	b.	31 and 3 other tablets. Int. V, B(1) iii.	
176		Suppl. 20 iii, Agade period. PN? Cf var. of S. in Agade document from Kif, Langdon (in publication).	
177		cows: Int. V, A (5); PN or title: ibid M (1b); place name ibid. P (6); fish name: 234 i.	
178		U. 14896 (PN 404b). = JN 179 (sig: could be áb?)	
179		41; 104 v 3 PN 612	

PLATE 15.

180		163 i, ii;  164 iii. Int. V, J iii.	
181		18 iv 5. Int. V, M 79b.	
182		9 i;  283 ii (school): word list Cf 319. PN 103, 179, 280.	
183		1 (sealing).	
184		PN 32, 93, 100, 122, 160, 264, 272, 286, 287, 310, 311, 328, 391, 392, 426, 549, 550, 587, 593, 660, 661, 669, 674, 754. Of sheep (Int. V, A 1), ass (A 6); tree name (D 4), fish name 234 i; S. 115; Šar-ra: 226 iv, vi.	
185		U. 14896. PN 366b.	
186		18 iii (Int. V, C). 67 ii (PN 298). F 363.	
187		272 i (school). Cf F 364.	
188		79 (frag); 15 iii (Int. V, J ii).	
189		372 i 1: PN 704	
190		3 i; etc.  2 v (F type). PN 208, 210, 606, 660.	
191		etc. passim.  3 i; 235 ii. Cf 66 iii ? U. 14896  (cf. Int. V, P). PN 21, 119, 161, 176, 178, 289, 388 - 399b, 436, 508, 525, 526, 587b, 734, 754. Lugal-Ki-nu-gi: 17 iii. Localities, etc.: Int. V: J, L, P. Ki-gi: <u>ibid.</u> E.	
192		22 i; cf. 137, 3; 251.  131; cf 88 iii, 192 i; 279 ii. All in ezen-S. (Int. V, N). Word in 237. 372 ii ?	
193		passim.  333,  322 (sealings). PN 259, 535, 544, 650 - 653b. Often concerning fields: with udu (Int. V, A), ma-gid (D 2); a, Šub, Šu-ig, gan-en-gi-g (J). igi-nim-Ša: 252 iii.	

		BÍL. šà: 36 i; 160; 185 i, iii; 286 i. Si-šà: 27 i 7, iv 3; 160; 185 i. PARTÚG. šà: 353 i, ii.	
194		U. 14896. Cf. sealings 320, 336. PN 787 b, c.	
195		PN 521. PATE.SI: 35 ii. 247 iv (frag)	
196		262 ii (school).	
197		and  passim.  3 i; cf. 45, 4. PN 197, 198, 203, 277, 300, 362, 398, 488, 516, 532, 533, 566, 581, 614, 615, 687 - 695, 713, 747, 749, 787 nom. det: 27 iv; cereal products: 30, i; cf. Int.V, B 2 ii end; of a field(?) ibid. J ii end; in nom. loc., ibid. P 10; name in 69 ii 6, school; fish, 234 i. UD. UD: PN 230, 648. 115, 2.	
198a		20;  19 i. PN 119, 336, 653. itu-ta-è: 18 iv. še-è: 20 ii. numun-è-a. 2 iii, vi (later).	
198b		103 i.  373 i. Int.V, G.	
199		169, school. 18 iv (see S. 198a). There are no month names. S. as JN 171 and F. Sch. 7 vi 25. In the early dynastic period, (Int., end) S. resembles UD + MAŠ: origin of UD + BAD, Agade. The gunu forms which appear in JN (JN 66) and again in Agade do not appear at Ur till Dyn. III.	
200		93 iv (PN 25).  330; cf. 323 (sealings). Cf. REC 541 ter.	
201		65 i (PN 792). 112 v 7 (Int.V, M 53). 328 sealing: cf. 317, 332, 333.	
202		365 (of fields)  324 (sealing): PN 531.	
203		1.	

PLATE 17.

204		passim. PN 19 i, 217 b, 241, 641, 653 b, 675, 777, 781. Descriptive of fields: Int.V, J ii; of baskets, <i>ibid.</i> E; offerings: O i. 283 ii (school). 362 i (frag). U14896 D (place name?).	
205		182 ii,  177 iv. S = la according to OBI 91, and in both places can be la, phon. comp.: PN 767 b, PN 554. Cf. S. 287 f.	
206		272 i (school).	
207		19, accounts. 234, fish vocab. PN 227, 345, 795. Occupations: Int.V, M 10 [prob. written PEŠ], 47, 73. Frag. 78, 1, and 158 A (re cereals?).	
208		19 ii 3 (fish name: Orient. 22, 42).  112 i (cf. PN 758). Cf. HA-A and A.HA!, 112 iii, v: Int.V, P12: šubaru (S. written  ).	
209		19 ii 5.	
210		19 ii 6,  234 ii,  167,  177 v, etc. In fish account 19; fish vocab. 234 ii. peš-dù : Int J(ii). PEŠ for HA in 356 i, 112 iii, v (cf. S. 207 f.): and HA for PEŠ in 201 (peš-dù)	
211		234 i 3, 4 (vocab). F 352.	
212a		87 i (PN 536).	
b	 ?	296 i (PN 788).	
213		40 iii. (PN. 789, 805).	
214		234 i 7, ii 2 (vocab). F 226.	
215		234 i 2 (vocab). F 227.	



























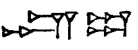








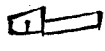
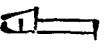

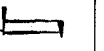
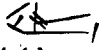










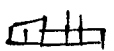




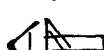


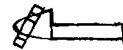










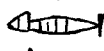


216		234 i 10f. In F. duplicates the S. is F. 219. The present S. probably had inserted <del>se</del> or similar (traces probably visible when first studied).	
217		14 ii = 299 i 8  (vocab) PN 309, 641, 695.	
218		209. Cf. Hoffman iii 2  ?	
219	 ?	4. Cf. Hoffman iii 2 	
220	 	168 ii 2 ? (cf. PN 414). Cf. JN no. 94.  Cf. S. 306; and S. 130? 212 i 1. Cf. JN no. 139 i 4  ; F. Sch. 33 iv 5f. Variant forms of lagar? (Int. V, M 21). For the variation cf. e.g. signs 228 ff.	
221		285;  112 iv (PN 598);  3 ii (PN 520)	
222		PN 16, 207 239?, 403, 413?, 465. In 72 (PN 239, PN 413) apparently  ??	
223		1 (sealing). ba-bar? (cf. JN no. 22 x 5 b  ; and 151 ba-bar).	
224		etc.  310 iv (later). PN 47, 490?, 526.	
225		PN 4, 57-61, 71, 77, 78, 136, 147, 230, 282, 500. 283 ii (school): LUL+UDU-abzu.	
226	 	5 iv. Cf. JN 234.  115; 247 iv.  308 (later). PN 151, 276, 327, 732. Accounts: 115. U. 14896: SU-zu will suit: PN igi-gal-gal-zu. Cf. RA 24, p. 28: 	
227		sign(?) on 253 rev.	
228		1 (sealing);  ;  ;  ;  Also written as KA (as in JN):  64; cf. 63 (S. 233); 92 ii 3 (cf. PN 744). With DUG and KUS (Int. V, B ii 4); sag-gal (L ii); sag-tun (H 2, M 59); ne-sag (O ii). PN 34, 38, 39,	

PLATE 19.

		69, 199, 251, 257, 272, 365, 484, 523, 556, 559, 560. 605 - 615, 670, 738 - 747. 272 ii (school).	
229		5 i;  92 i;  93 v;  171A; etc. (variation in nearly every example).  320 (sealing). PN 235, 248, 410, 411, 412, 437, 628, 652.	
230		87 ii: perhaps ligature of lagar and é: cf. PN 117. (98).	
231		etc. urdu-Kú: 186 ii; with še and ninda, Int.V, B. KÚ.KÚ: in PN 405. nig-KÚ: 18 pass; 66 iv; 159 ii.	
232		143 ii not for NAG, but a... sag: PN 39.	
233		3 i;  7;  298;  310 iii (later).  63 iii,  63 v: prob. sag (cf. JN 165). PN 18, 19, 116, 247, 374, 376, - 386, 475, 668 f. 773. S. 198 b. zú-lum (310 iii).	
234		278 i: PN 215.	
235		112 iii: S-é-Kur. F 325.	
236		1 (sealing);  76 i;  101;  167;  53 iii; etc.  40; cf. 41. PN 25 f, 426 - 452; and in lugal, lú-gal: 23, 73, 181 f, 205, 458 - 492, 736. Titles: Int.V, M 22 ff.	
237		196 c = F 339. With this may be compared b.  93 i 9. c.  257; cf. 3 i. d.  63 i; cf. 224 ii 2. Cf. PN 453 - 457.	











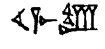

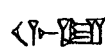











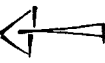





238		93 i  185 iii. cf. F 343. PN 52, 790.	
239		242 ii: PN 196. 299 ii (school). 323 (sealing). 157.	
240		PN 108, 233, 365 — 370, 421, 535 (?), 742. igi-nim. Šà : 252 iii.	
241		PN 367 f.	
242		255 i and often.  283 ii and often. igi + bur. 40 times. Cf. igi-bur: MI, II iv 13; F Sch. p. 27 VII 1. PN 17, 94, 114, 175, 266, 359 — 364, 397, 503, 625, 667.	
243		pass. PN 483, 517, 529, 711 — 713.	
244		252 iii: PN 533.	
245		PN 494(?), 640; and PN 419, 625 (unless sig is an addition to the names: cf. SL 351, 6).  (?) 329 sealing.	
246		63 iii 5: cf. PN 695.	
247		PN 31, 297, 374, 554, 604.	
248		3 i;  58;  168 iii 2. PN 119, 791.	
249	 	31,  70 i, and similar. Cf. JN 285 f. 72 ii,  85 iii, and similar. Cf. F 462. Always forked, except 2 iv (F type). PN 131, 187 f, 245 — 249, 398b, 578, 727. Reeds: Int. V, E.	
250		319,  318 (sealings: not clear: cf. Pennsylv. Tab., BS IX 1, no. 1, 4 iii 5  ?).	

PLATE 21.

251		256. Cf.  223,  237 (contexts similar?). Cf. JN no. 30 i 4  ; Uruk, Zweiter Bericht...p.29, i	
252		251,  290, etc.  143 iii 4. PN 233, 281, 283, 339, 445. túg-bar: 251. With ganun: 223. edin-bar: Int.V, M(?) With iKu: ibid.J(vi). S.198b.	
253		112 i 7 : ma--Kur (possibly place). Cf. RA 1917 93; OBI, II ii 6.	
254		65 i (PN 792). [Ka-aš-bar-bar (pārisu)?]	
255	a.	19; etc. This is the commonest form. b.  25 i, etc. Cf. F. 464. c.  209. d.  37 ii,  69 iii (both school). Cf. JN138. Reeds: Int.V, E. PN 27b, 70b, 81, 215, 289, 290, 328 f, 422, 524, 681. Titles: Int.V, M 9, 51. anšu-DUN-GI: 127 i; UDU-gi: 69 iii. Unit of numeration for fish: 19 pass. [cf. Dornel, Sum.Gram. 207]	
256		34 ii (PN 319).  262 ii (School).	
257	a.	17 iii, etc. b.  55 ii. c.  61 ii. d.  248 iii; 177 iv;  166. PN 291, 488. god: 17 ii. é-ga-gi: 166; Ki-GAR-gi: 18 iv. In accounts with ninda (55 ii), KAS (61 ii) and še-numun (177 iv).	
258	a.	71 i, and commonly. b.  259 iii, etc. c.  73 and often. d.  65 ii. [Later forms: 2 iv, 310 iv] PN 46, 53, 207, 278f, 354, 498, 528, 542, 565, 615, 630, 657, 672, 694, 704, 714f, 756, 765-767b. Titles: Int.V, M 30, 63.	
259		274 ii and similar. PN 543, 767.	







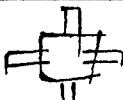
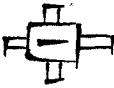
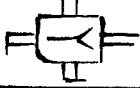

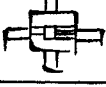
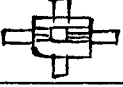

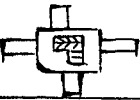
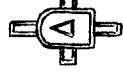















260		and similar. PN 153, 174, 232, 246, 351-355, 392, 474, 731: and see S. 13.	
261		252 ii.  297 iv(school).  87 iii.  309 ii(later). PN 31b, 373, 447. 309 ii: S-erin.	
262		85 i.	
263		322 (sealing). 248 ii (PN 356).	
264		283 i (school)	
265		30 passim; 16 i. Int.V, A(1). PN 240.	
266	a. b. c.	123 ii,  13 i; and similar. (2 iv, F. type). 143 iii. Two forms of sig: cf. PN 191 with PN 217b, 384. Cf. JN 385, 384. U.14896 (joined with é): prob. also sig: cf. JN 385(no.139 i 3). PN 190 f., 217b, 641, 702.	
267		182 B: qiš-gigir-nun (school)	
268		283 iii (school).	
269		probably sil, lamb: Int.V, A 3.	
270		101 i: PN 600. S = JN 256.	
271		85 iii, etc.  175 ii.  63 i.  329. Int.V, J(i), P(ii). PN 611.	
272		passim.  63 ii (cf. JN 242).  347. Int.V, A(1). PN 47, 66, 67, 140, 204, 212, 265, 269, 270, 396, 423-425, 476, 522 f., 534, 696-703, 782. 69 iii, 297 iv (school).	
273		23 i,  235 ii, etc.  109 i.	

PLATE 23.

		310 iii (later). PN 19, 43, 70, 223, 331, 372, 399, 418, 518, 710. é-ra: 23 i, 138 ii. Šer-ra: Int.V, J (iii); ki-gar-ra (ibid. Lii); Šar-ra: 226 iv, vi.	
274		16 i: sheep accounts.	
275		237.  310 iv (later). Int.V, A(2).	
276 b		209 i (giš-gi-gid-uz). 350 iii. (PN 489): (?) : 87 iv.  (?) : 159 i. (PN 40, 340).	"
277		234 i (fish). 357 ii (S-ma : PN 793). 364 ii: nu-S. S = F777. Definitely pisciform: meaning ram (cf. F777; SL 122 b.1) difficult: confusion with JN 243?	
278		364 ii.  274 ii, etc. Cf. F765. PN 706 f.; titles: Int.V, M75.	(109)
279		etc.  162 ii. F175. Int.V, M80	
280		Always with rounded corner, and distinct from S.339. PN 69, 576, 685. sag-tùn: Int.V, H2, M59.	
281		273 i,  53 iii. PN 53, 491.	
282		63 i: PN 795. F477.	
283		177 i: PN 592.	
284		passim. [360 ii  ?] PN 38 f, 484, 716-752.	
285		80: udu-ur4. PN 141 f.	
286		128 iv: pisan-S. PN 236. etc., sealings 1, 319, 329. Simpler form of the following (cf. variants in PN 236)	

287		183 and similar. Cf. S.205 and S.286: all three LA. S. is very near to archaic GUG (S.288): seed-pod. From this LA (with meaning <u>full</u> ) is derived? PN 236-238, 332, 349, 735. 112 iii mid., 155 (fragm.).	
288		281 iii; cf. 34 i.  67 i; cf. 37 i. Cf. JN no. 6A, iii 3. Int.V, C and M 9, 14.	
289		PN 28, 126, 127, 142, 183, 235, 251, 270, 296, 333, 431, 441, 454, 477f, 500-523, 554, 584f, 587. šu-me (Int.V, F); titles ( <i>ibid.</i> M 9, 54); frag. 258; school: 297 iv; 310 iv.	
290		14 i = 299 i (according to F dup). cf. JN 316	
291		53 ii. (no well preserved examples). Int.V, M 4 f. 14 iii (according to F. dup).	
292		29 i after ziz; 83 i with še. 132 i with numeral (minus). In words la!-zabar, nig-lal: Int.V, H. PN 268, 383, 509. 162 (broken)	
293		297 i (school): PN 122.	
294	L ?	83 iii with še, =  (ibid. i 4)? Cf. JN 410.	
295		112 i 16: usar (with  =  as L =  ?). PN 758	
296		etc. PN 10, 100, 230, 282-300, 431, 515, 587. Of land: Int.V, J iii; titles: <i>ibid.</i> M 9 f. 69 ii 6: school.	
297		and the like, passim. 324  sealing; cf. U.14896  (?). PN 253, 442, 443, 524-536b. 3 ii (also = mes?: but cf. F608): PN 530. b.  47 i: PN 428 (poss. for mes: cf. PN 442 f.). Uncertain DUB for mes in 5 i 4 (PN 534). MES possibly for dub in e'-MES (Int.V, Lii; but v. note).	

PLATE 25.

298		In names of feasts: Int.V, N. PN 169 f., 303; cf. Int.V, M68.	
299		299 iii (school). Var. of F 616.	
300		9 i. S=F.Sch. 55 xi 20. PN 492.	
301		247 iv. F 618 PN 276.	
302		255 i: ganun-S. kal. 348 pass., with zì, meal.	
303		188;  235 ii, iv; etc. F622. Int.V, M56.	
304		252 iii; etc. cf. F 621. PN 200.	
305		43. PN 201.	
306		U.14896.	
307		368, etc. Always with -ra. PN 70. Int.V, J iii.	
308		255 ii;  66 ii; etc. PN 310 - 313; Int.V, M 11.	
309		11 i, and similar. PN 705; Int.V, M 74.	
310		201 iii, etc. Origin of AL (implement + Kud/TAR). Concerning fields: Int.V, J ii. é-al: <u>ibid.</u> L ii (cf. F, PN é-al-la). PN 784. 204, frag.	
311		63 v; cf. ii(?).  101 i 101: logs. PN 62, 718.	
312		 . Same two forms JN 405. Trees, wood, reeds: Int.V, E and D. giš-gigir: 182.B. giš-bān: 230 li. PN 167, 327b - 337, 589 f., 666.	

313		283 iii (school). [qī-tenū].	
314		; less often joined:  . Also  (as F). Int.V, D(3). PN 12, 64, 106, 317, 318, 432, 622, 665.	
315		18 iv.	
316		14 iv. Cf. dup.F. Sch.33 III 18, 35 II 4; F 632. qeštin-dul?	
317		,  . Buildings : Int.V, L ii. PN 102, 238, 304, 308, 468.	
318		142 ii. Buildings: Int.V, L ii. PN 105.	
319		3 i 1, ii 7; ( ii 6); cf 363 i 4. Usually ,  , and the like. Enclosing sign never exactly pisan (as F 675), and never pointed as in JN period (JN 295). PN 76-144, 244, 578, 603.	
320		142 i 1.	
321		76 1 : cf. PN 472.	
322		Suppl. 16 v.	
323		300 ii 1 =  14 iii 2. F dup. = F 686-me.	
324		14 iii 3. F dup. = F 691-me.	
325		93 iii, etc. PN 29, 128, 479.	
326		133. Usually  . Attribute to various com- modities: meal, bread, beer, ropes : Int.V, B(2) i, ii, iv; H(2). With genun-bād: 258 i; with ezen: 192.	
327		4;  112 i; 168; (72?). Later = S. 326 (REC 421), but here distinct. PN 155, 239, 413, 420, 721.	"

PLATE 27.

328		274 ii : . PN 146.	
329		309 i. Apparently simple form of simug, S.93: but in Clay, M1 12 III 5 it corresponds to F.dup.(Sch.75 v 12) = S.377.	
330		115.	
331		pass. In gú-an-šù: 113 D, 127, 147, 163, 164, 184, 356, 359, 364f, 371 (all iku); 297 ii (school); 21, 166. PN or title: PN 339, 341, 473, 592; Int.V, M 13. Vegetable(?): 4. Of wood: 251; 241. Of goats: Int.V, A(2). Frag.: 150.	
332		327 (sealing). Cf. F 545 ?	
333		pass. Int.V, L i. PN 55-56b, 76, 242, 458, 465. Vegetable name: Int.V, C; fish name: 234.	
334		U.14896 (PN 787b), Prob. AB+AŠ(F 540/1). Enclosing S. as REC 5506a.	
334 bis		338 i: PN 186.	
335		27 v; PN 576.  159 ii (Int.V, M 15b). S. 43.	
336		,  PN 42, 143, 333, 486, 487; title: Int.V, M 10. d.nin-uru; 105 i.	
337		2 i, ii (F. type). = PN.	
338		127 etc. Int.V, G. PN 757.	
339		Always with corner <u>not</u> rounded: contrast S. 280. Int.V, M 45. PN 319b; 435. 134 i, ii (School).	
340		88 i.	
341	a.  b.	226 i;  199 iii, iv;  281 ii (?). 185 ii;  109 iii;  113 B i;  344; 297 iii.	



































		$a = b$ : cf. PN 206; phon.comp. <u>ra</u> in 199 and prob. 297. PN: 43, 206, 582, 717; Int. V, M(2).	
342		318 (sealing).	
343		PN 22, 26, 180, 294, 415, 416, 438, 439, 510, 609.	
344		349 iii: lú-Kás(?).  259 iii: sal-Kás(?). Int. V, M28, 63.	
345		84 ii 6 = F 578 (unless S.343 is intended). PN 797	
346		18 iv;  19 i;  139; etc. PN 72, 299, 388 f., 544, 653. an-ta: 63 vi. 310 II.2 (later).	
347		233. Cf. Hoffman 13.	
348		passim. Int. V, B(2) iv.	
349		96 ii. Var. of S.348.	
350		passim. Int. V, B(2) iv.	
351		38; 54. Var. of S.350.	
352		337 (sealing).	
353		62 i, ii. PN 671 f. 11 i [cf. Int. V, F]. In 162 vi = bappir: cf. Poll.	
354		219 and similar. Int. V, B(2) iii.	
355		64. Arch. var. of S.354.	
356		134 iii; 234 ii (fish); 299 ii: all school.	
357		13 i;  30 i, ii;  86 i;  264;  339 i;  357 iii; etc. Later form 69 iii  (school), and 145 i (dubious). PN 28, 121, 177, 183, 401, 402, 441, 743, 771(?). 209 in tree name. 69 iii, 264 i, 299 i: school.	








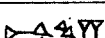




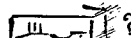






















PLATE 29.

358		162 passim.	
359		57;  66 i;  112 ii mid. PN 133	
360		310 iv (later). 243, 4 (?). PN 575, 603(?).	
361	?	281 ii (?): PN 743.	
362	 	89 i 4 (frag). 105 i (nom. dei); 143 ii 2 (PN 209); 230 ii (giš-bàr).	
363	 	202 ii. Cf. Int.V, J iv. 248 iv: PN 733.	
364		244 (prob. = S 363; cf. variants of S 362). PN 733.	
365		and the like.  1 (sealing); cf. 322, 328, 333, U.14896. Temples, etc.: Int.V, L (ii). PN 7-9, 48, 93-98, 162-167, 195, 261-280, 286, 429 f., 465-467, 505 f., 621, 771(?): [cf. Int.V, L iii, O(3) iv].	
366		78; 104 iv, v. According to TSBA VI 454 = lll. Cf. F. Sch. 20 rev. ii 15. PN 125 (where however it could be var. for é: PN 98).	
367		1 (sealing). Usually  , etc.  1 357 ii.  2 iv (F. type). (= JN 386). PN 20, 29, 65, 89, 118, 199, 387, 506, 642, 660, 666; and some fragments. 19 iv: bird name (cf. F. Sch. 58 x 21).	
368		and similar:	
369		and similar. Also defectively (by one scribe?): 341 i, 358 ii, 371 i: S 368 and S 369 are used indiscriminately in the same PN and other terms. PN 171, 179, 305-307, 364, 366, 381, 405,	



		507, 531, 588, 601, 638, 650, 682, 698, 765, 767, 782, 799, 800, 803. ga-gal: 14 ii, 199 i (School). (gán-)ga-Ki: Int.V, J i. Names of buildings: <i>ibid.</i> II In titles: <i>ibid.</i> M 49f.	
370		74 ii; cf. 17 i;  112 iii; cf. 34 ii;  91;  248 iv; cf. 62 ii;  143 iii;  339 i; etc. S. analogous to S.383 (aromatic), with gunu lines on the left (as in 143 iii: cf. JN 107-110, 329 ff.). Cf. also S.405, S.410. edin-bar: Int.V, M 7 and add. note. PN 99, 281. Kuš - edin: 115 i.	
371		99 ii, etc.  70 i 5 Int.V, M 66. PN 189, 632, 634, 673. šid-aq: 61 ii, 66 ii, 360 ii.	
372		310 iii, iv (later).	
373		310 ii (later). 264 ii 1 (according to F. dup.)	
374		etc., pass. (with thick end of stroke at the heel). 320 (sealing)  .  (in UD-DU, 19 i) is left foot? PN 56b, 129, 240, 262, 287, 288, 350, 394-396, 495, 686. ni-túm: 7. 112 i 12 (place name). 310 ii (later).	
375		36 ii, etc. 310 v (later):  . PN 170, 327, 646.	
376		70 ii. PN 303, 320, 603 .	
377		257, etc.;  47; 281 ii;  92 ii;  54; 309 ii;  93 iv;  181 iv; etc. Always with S.103b (BIL-PAP). Corresponds to G18 in F and subsequent orthography (cf. PN 601 with PN 589, F period). (S. approximates nearly to G18 in 151, 259 ii 12) PN: as under S.103b. S. perhaps signifies an instrument	


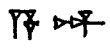








PLATE 31.

		connected with fire(cf. S.329)?	(JN no.165:  ?)	
378		163 ii; cf. 226 viii. PN 608, 684.		
379		37 iii.  345 i (PN 154).		
380		308 (later): PN 732.		
381		26 ii, etc. PN 15, 224, 230, 550.		
382		67 i; 103 ii. Int.V, D 6.		
383	 ?	109 i 2 (PN 769). Hardly mah?		
384	a. 	62 iii, etc. b.  209 i. c.  218 (also KU: cf. PN 347): 252 ii 10, 273 ii, 352 i. Cf. 98 iii 4; 2 vi (F. type). d.  12 i,  261 i. Also ku: cf. PN 406; and intermediate forms  153 ii,  193A,  371i. PN 331, 347, 403 - 404 b, 406, 527, 561, 626. e-ku: 98 iii 4. Tree name: 209 i. KU.NITA (Kala): 352 i.		
385	a. 	usually. Also b.  251. c.  129. garments (school tablets): Int.V, H2. PN 37, 399, 629, 658 b, 683, 803. tu'g-ga: 14 ii = 299 i (school). PAP-TUG: 353 i, ii.		"
386	a. 	b.  Int.V, B(2) i. PN 280, 327, 354, 443, 449, 659, 728. gu'an-shu: see S. 331.		"
387		, 37 i;  55 i. Int.V, B(2) i.		
388		etc.; also  143 i. Cf. JN no.135 i  PN 88, 115, 234, 373, 463.		
389		etc.; also  28 i; 62 ii. PN 321, 371-373. S.388 = S.389? Cf. PN 373; and im-gig in 115, 234, 371, 463.		"

390		<p>65 i ;  112 ii (end);  40 iii ;  261 i ;   299 i ; etc. [ Supp. 2 iv:  ]</p> <p>In PN 642 f., 789 ; and occupations, Int. V, M 17 a, b, c, 18.</p> <p>S. is apparently used for <u>SA</u> (= S.gunu) in 261 i (cf. S. 131).</p> <p>S. is probably equivalent to  in 112 ii (KA<sub>4</sub>-[ŠU]-DU).</p> <p>S. and S. 139 are not used indiscriminately: only the latter as measure, and in name of a feast.</p>	
391		<p>163 iii, = PN?  262 iv (school).</p> <p>S = F 489 + TUG, as in F. Sch. 75 i 1.</p>	
392		<p>PN 255, 315, 398 c, 655, 715, 757. Sealing: 332.</p> <p>peš-du: Int. V, J ii.</p>	
393		<p>21: subject of account. PN 338.</p> <p>[S. not  as F. and subsequently: cf. JN 304  ?]</p>	
394		41 i : PN 488.	
395		65 i 1 ; cf. 212 i 2(?). PN 802 f.	
396		<p> and similar.  133.</p> <p>ninda, passim. Int. V, B (2) ii.</p> <p>gar: buildings: <u>ibid.</u> L ii.</p> <p>nig: <u>ibid.</u> H(1), (2); M(49), (50); nig-Kú: S. 231.</p> <p>school frag.: 159 ii.</p> <p>PN 267, 447, 469, 489, 530, 566.</p>	
397		<p>PN 258, 273, 311-313, 617-631, 701.</p> <p>Title: 9 i 7. Animals: 16, 19 v(?).</p>	
398		<p>52 ii ;  259 v ;  93 ii (S. Ki)</p>	
399		<p>199 iv ( PN 27). In S. 150.  143 ii (PN 178).</p>	
400		89 ii: title.	
401		<p>Goddesses: Int. V, O.</p> <p>PN 242-244, 571-577, 723-726.</p> <p>283 iii (school).</p>	


















PLATE 33.

402		34 ii; 124 ii. Cf. JN no. 35 ii; R. msc. 16, 3. PN 273.	
403		PN 159, 253, 804.	
404		226 viii, etc.  83 iii, etc. PN 137, 214, 284, and S. 242. Same var. as in GAR. S = GAR gunu. Cf. JN. 74.	
405		49 i (with Kás).	
406		PN 16, 28, 56, 139, 306, 349 f., 382, 386, 390, 475, 495, 541 b, 561-565, 693, 700, 767 b, 769 oil: 52, 149(?). urudu-zal: 127 i, 373 i 4. ni-túm: 7. 283 ii 1 (school). 238 (frag).	
407		47 ii: dàg in PN 218 ? 168 ii 2: dàg in PN 414 ?	?
408		180 ii,  366 ii,  U. 14896. Title: nagar.	
409		etc. 13 ii  (written over edge of tablet: abnormal). PN 15b, 129, 256, 564 (transcribed conventionally "NI+TUK", but second part not TUK: perhaps S. 281 without the foot).	
410		11 ii.  338 ii (PN 186). [Forms of MUN analogous to F 55, 56? Or second S = S. 370? With first S. cf. S. 405.]	
411		142 i, etc. PN 227, 375.	
412		18 ii, etc. Prob. a form of ÍL: see Int. V, M 15 b. Cf. also S. 108 b.	
413		9 ii, etc. 1 (sealing): B. 2 ii (Ftype):  S = F 527. Cf. JN 346. Title and place: Int. V, M 54. PN 54. Frag. 75.	
414		PN 450, 457, 753, 755. Int. V, M 76.	
415		1 (sealing). Cf. JN 347. Usually  PN 193, 256-259, 318, 342, 355, 385, 411, 437, 577, 707, 740, 748, 763, 785. nu-banda: Int. V, M 36.	
416		and similar. 3 i:  PN 1-54, 64, 195, 236, 346, 375, 388, 508, 696, 717.	



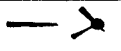







		GÍD.A, TAG <sub>4</sub> .A: Int.VI.      Fields: ibid.V, J i. School: 283 iii 2 (?), 297 iii.      2 vi; 310 ii, v (later).	
417a		357 ii: PN 660.	
417b		83 ii (confused): ? = a + šeš (salt water), PN 389 (cf. PN 388).	
418		112 i, iii; 168 i; 171 i;  75; 259 ii;  112 iii;  298.      PN 72, 187, 372, 409, 690, 691, 710, 755.	
419		323 (seal impression).	
420		324 (seal impression). = amar in PN(531) ?	
























## NUMERALS

## I. Pure Numerals









a = b		
A	 	<u>one</u> , passim.  298  132 (-1[ <i>aug</i> ])
B		<u>one</u> (sheep): 7. [Barred signs mostly in System II: v.inf.]
C	•  	<u>ten</u> , passim. [In 225 apparently units precede tens. Cf. also 51 rev.?] <u>b</u> (2), theoretic analogue to <u>a</u> , is rare: supplied from 185( <i>gur</i> ).
D	 	<u>sixty</u> . Cf. total in 21 (prob. 287+160+88 = 535). Other examples perhaps: 39, 97, 112 rev., 221 (barred?), 228: but more common sign is the following.
E	   	<u>sixty</u> : written in pairs,  etc. (Single: 71(?)  ). $60 \times 2$ : 66, 88, 100 $60 \times 3$ : 25, 55, 65, 256 $60 \times 4$ : 19, 55, 66, 100, 256 $60 \times 8$ : 114 $60 \times 10$ : 19(?), 178 $60 \times 18$ : 66, 88 Thus a particular sign for six hundred was not generally used.
F		<u>sixty</u> (barred): 166.
G		88 ii 4: following traces of eight or more sixties. Probably <u>six hundred</u> . If so, the same tablet contains both a longer and a shorter writing of six hundred. Cf. longer and shorter writings of ten bur in System III (10bur = sign III-H and also sign III-G repeated 10 times).

## II. Measure of Capacity

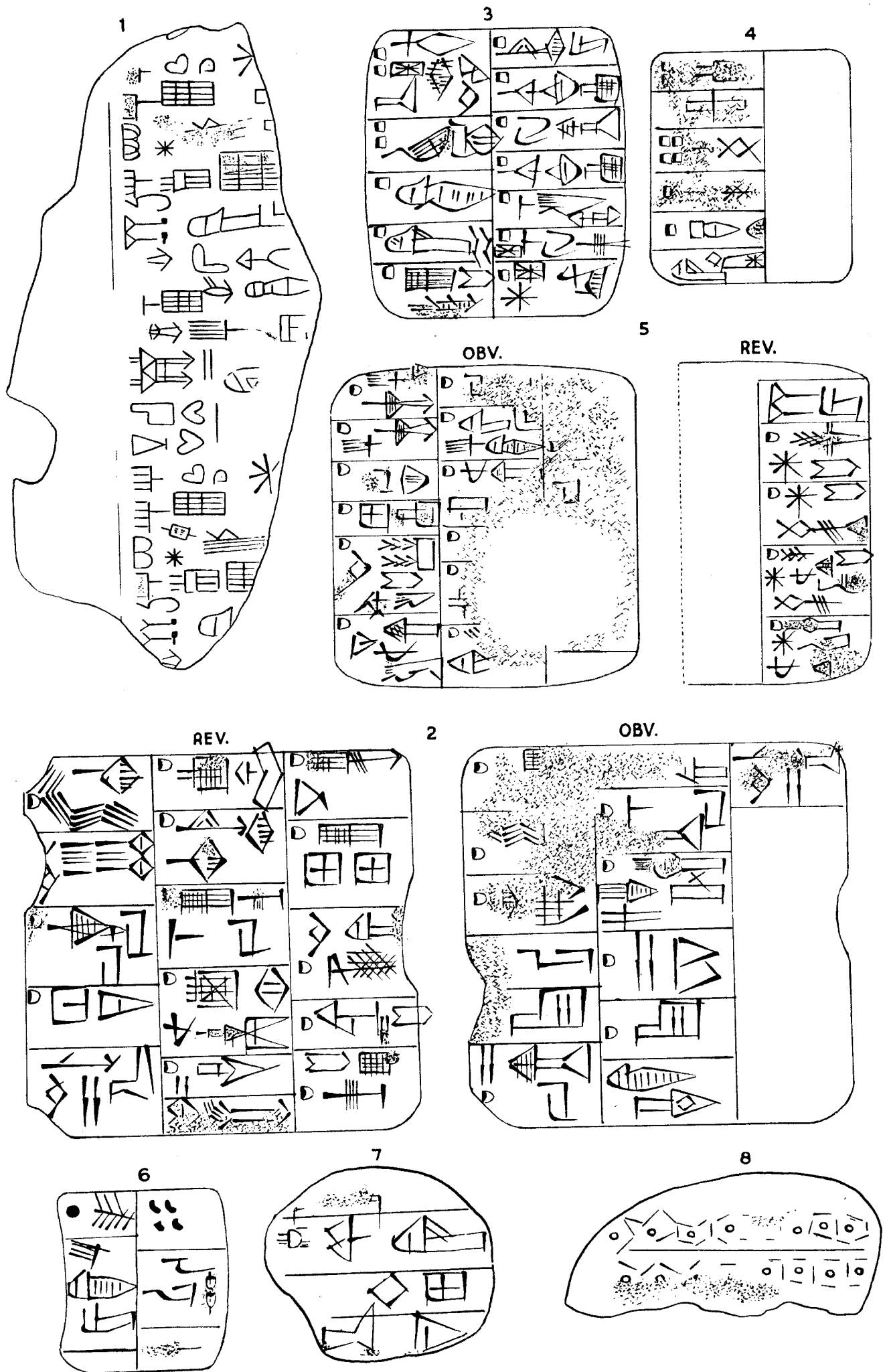
A		 and  , 29.  , 1 Ka, 226 vii, viii. But in 18 iii 3 .Ka numbered by numerals G.
B	 	Fractions are rare. (a) 83, 162 v, 258 (   ), [134 iii 2 (school) belongs here?] (b) 32, 339 i, 341 ii, 348. Fractions of the gur. Less than half? (cf. c, d, f).
C		37 ii (school): with ninda.
D		37 ii 2, 135 i 1, 162 vi (here seems distinct from B, and greater).
E		340.

F			83 i: greater than B.
G			<u>One gur</u> , passim.  written in 85 iii, 276. Irregular writing: 6; 35.
H			etc., <u>One gur</u> (barred sign). 23, 32, 66, 132, 133, 136 bis, 182, 183, 185, 198, 212, 217, 218, 349.  In 183 the numerals are barred in col. II, not so in col. I. Col. II contains almost the same list of names as col. I. Thus barred numerals probably indicate a second consignment of the commodity. The same explanation suits 23 i (  e-ra,  e-ra), and 32 ii (  ,  ), assigning barley twice to same individual).  The barred numerals occur mostly with reference to gur measure, but are possibly also as pure numerals. In 133 and 217 they refer to DUG, and are purely arithmetical if DUG indicates rather the pot than the measure of Kds.
J			<u>ten gur</u> , passim
K			etc., <u>ten gur</u> (barred sign). 29, 66, 68, 73, 77, 110, 133, 136 bis, 144, 162, 182, 183, 185, 195, 198, 212, 217, 286, 349.
L			numeral next above J/K. numeral J/K occurs in multiples of 6, 7, 8 and 9. L is therefore <u>hundred gur</u> . (a) 83, 86, 158(?), 162 vi 5(?), 228. (b) 205b.
M			Mb: evidently barred form of Lb: 185, 222. Ma equivalent to La; and perhaps takes the place of the barred form. [  does not occur] 29, 162 vi 6(?), 188. [Barred signs occur in context of first two: 188 is broken.]
N			numeral next above L/M. numeral L/M does not occur in multiples above 4. N probably = <u>six hundred gur</u> . 73, 158, 162, 176, 222.
P			N. barred 90, 144, 162, 185.
			All the documents which contain numerals characteristic of this system deal, so far as is indicated, with corn or meal: except 86 ( <u>še-ninda</u> , taken to mean loaves: see Int. V, B 2 ii).

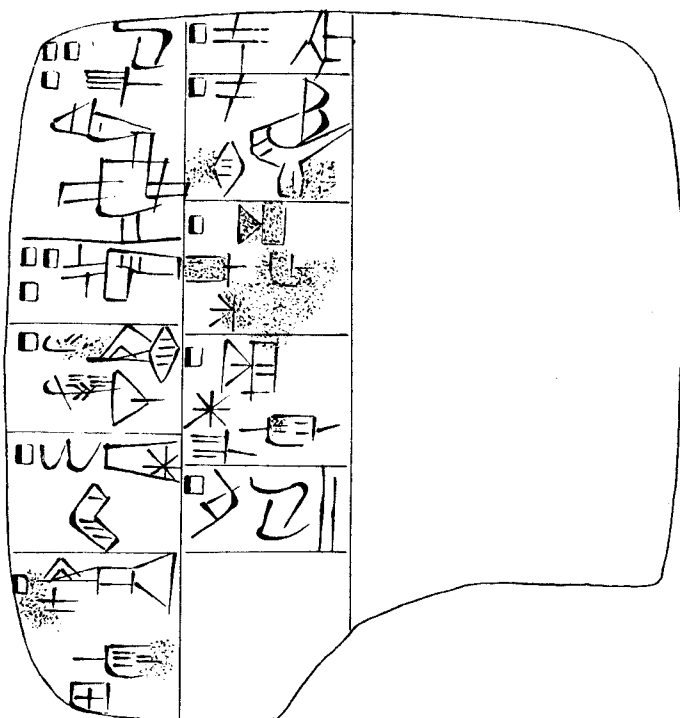
## III. Land Measure

A		— 27 ii: prob. <u>one sar</u> . 168 ii 4(?) 163 i, iii, iv ?
B		(?) 98 iv 3.
C		226 vii. [cf. 98 i 5 ??]
D	 	20 ii; 108 i, ii; 226 i 1, iii 1, v 3. (If this is half-gan, the rent in 20 is on $1\frac{1}{2}$ gan out of 5 bur: = one-sixtieth).
E	 	passim. <u>one gan</u> .
F	 	passim. <u>six gan</u> .
G	●	passim. <u>one bur</u> .
H	●	<u>ten bur</u> . 15, 20, 27, 147. 163, 167, 201, 365, 371.
J	⊙	equivalent to H. 82, 102, 117, 127, 175, 356, 364.
K	●	In 122 numeral next above fourteen bur (G fourteen times); probably in 365 and 371 next above ten bur (H). The highest multiple of H/J is 4. K therefore probably <u>sixty bur</u> .
L	●	27 iv: numeral next above H or K: perhaps hundred bur.

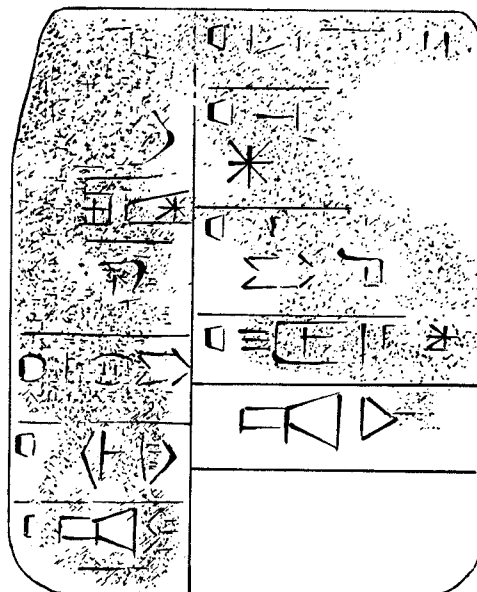




9



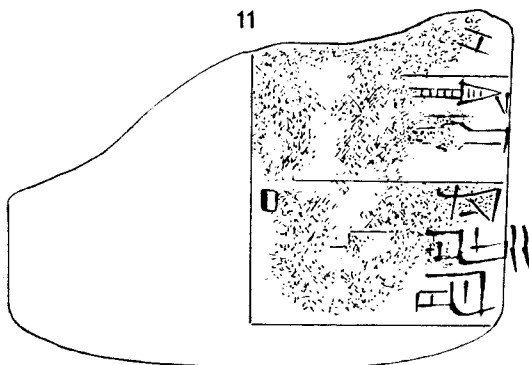
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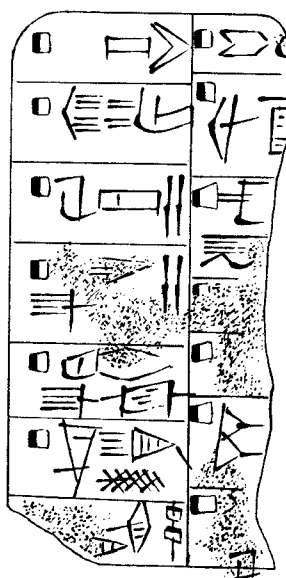
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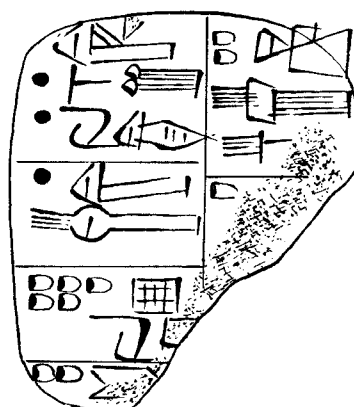
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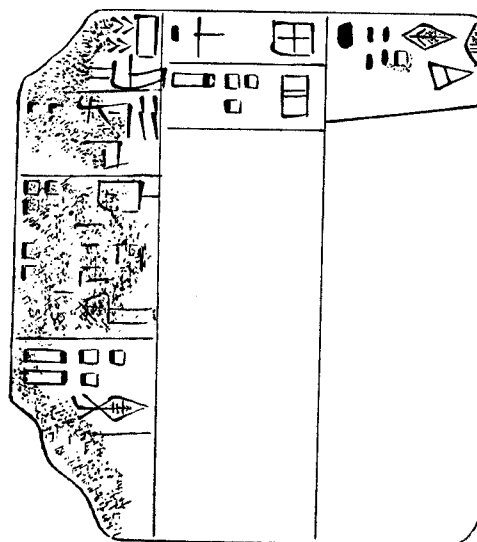
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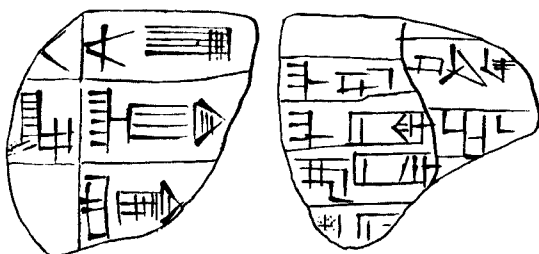
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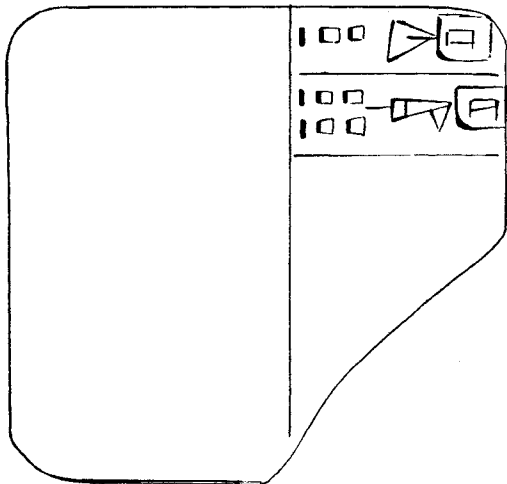
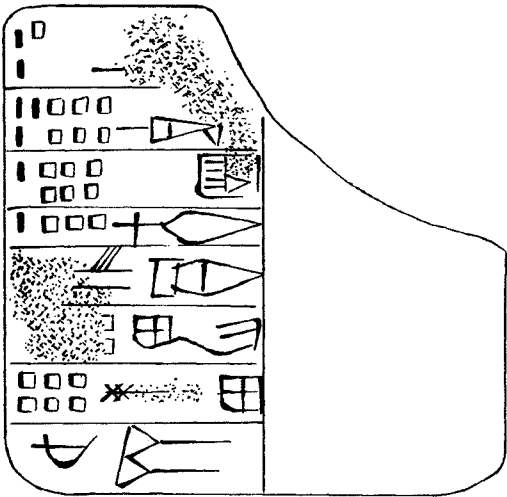
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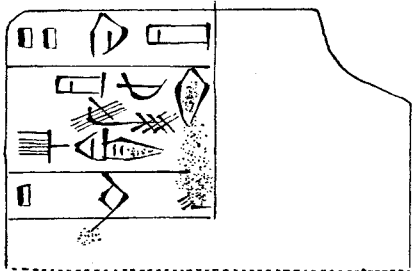
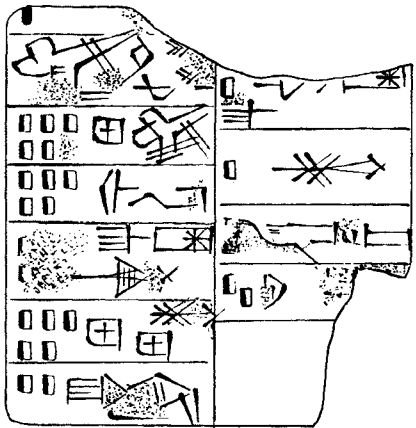
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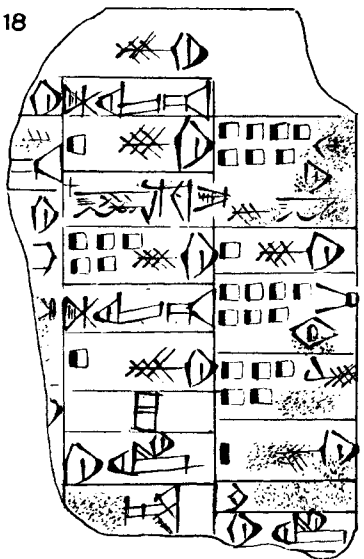
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19

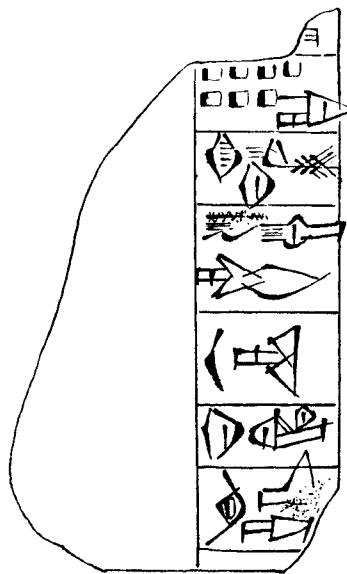
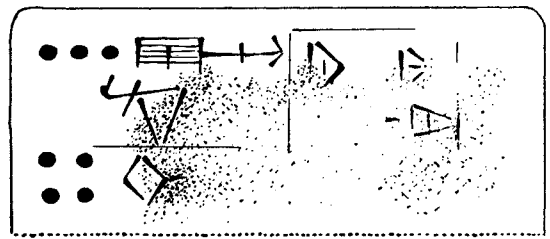
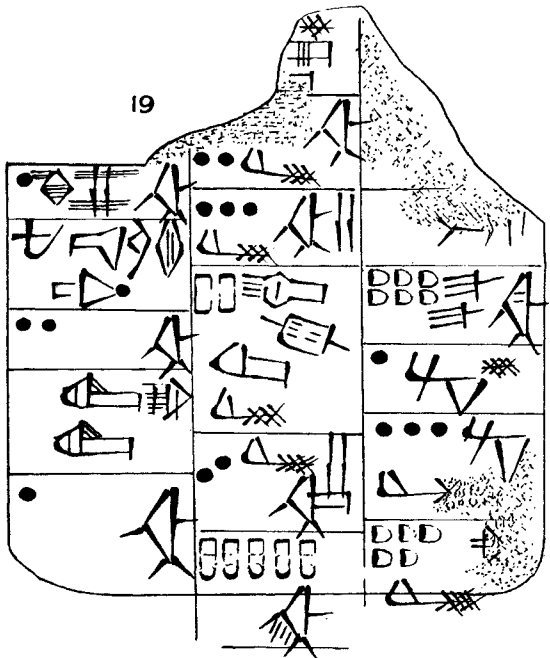
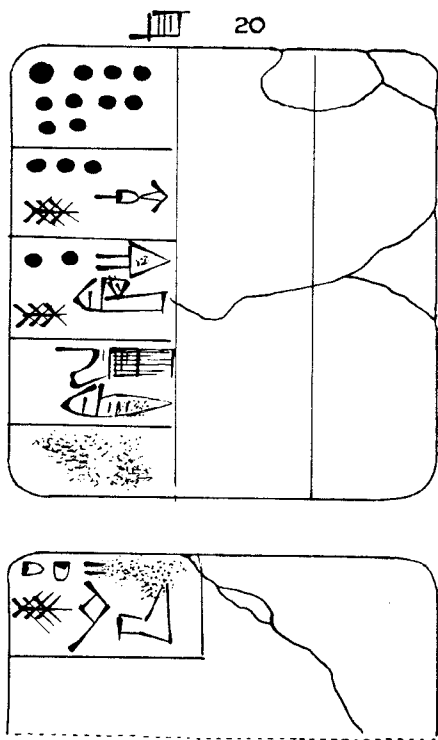


PLATE IV.



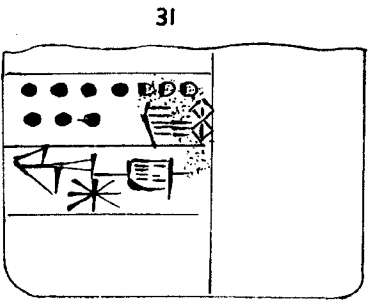
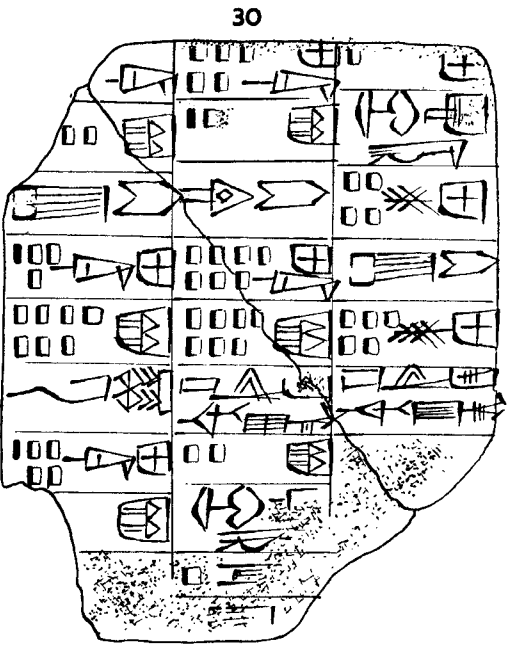
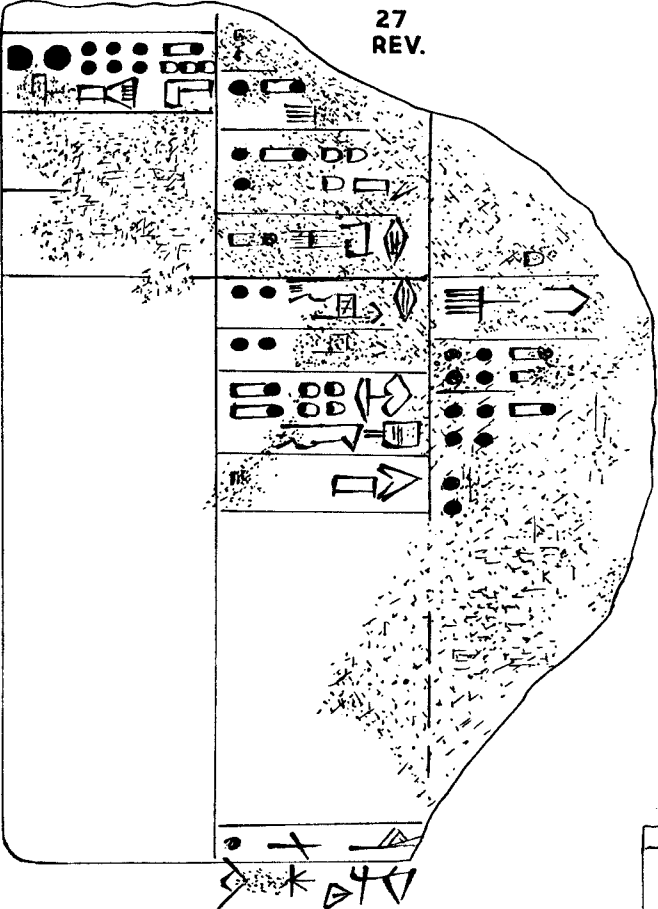
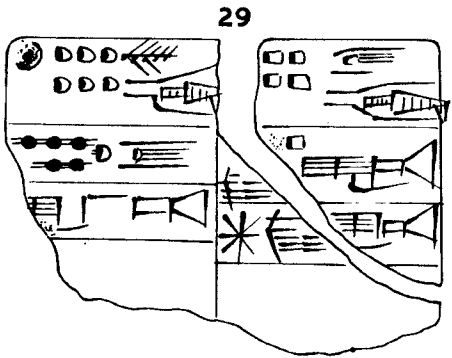
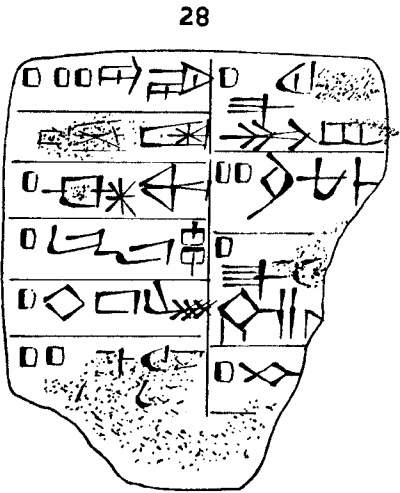
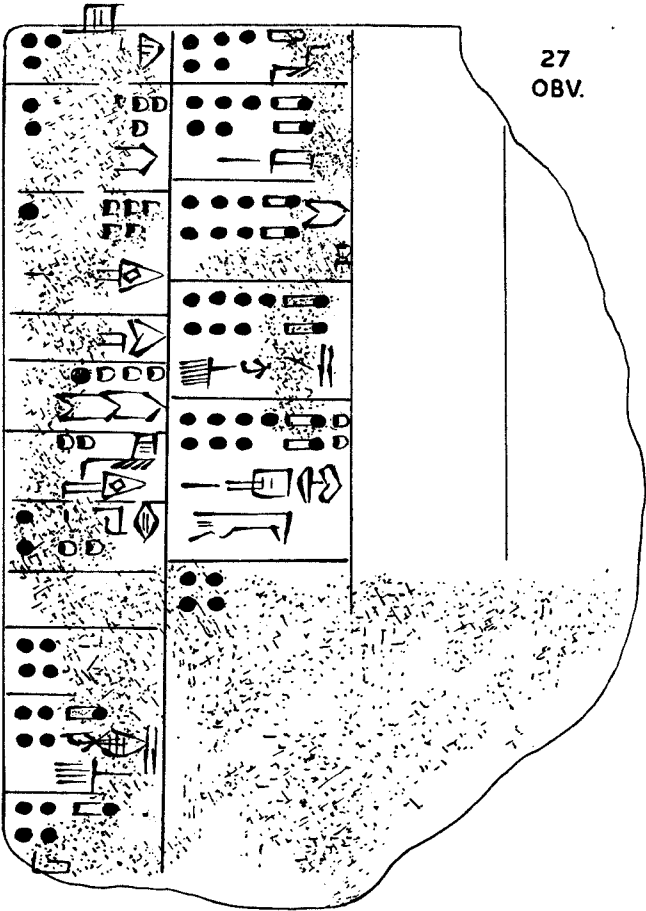
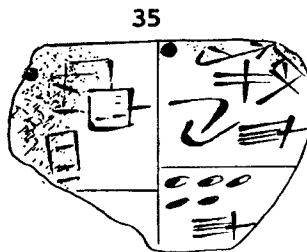
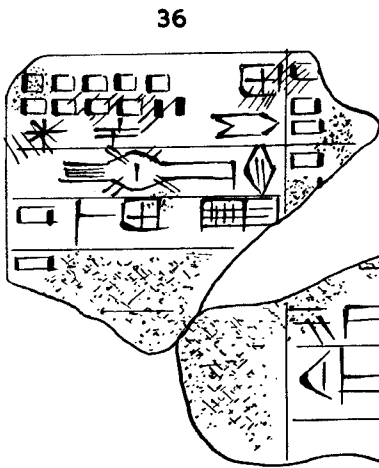
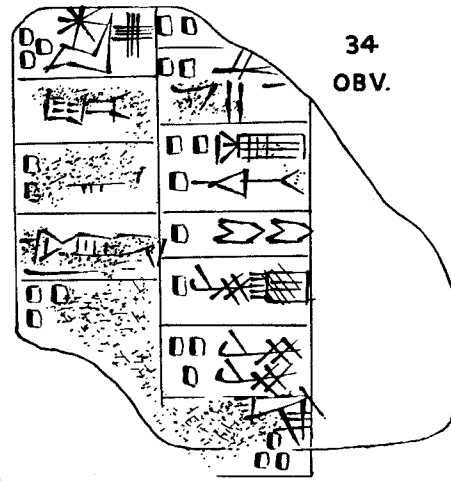
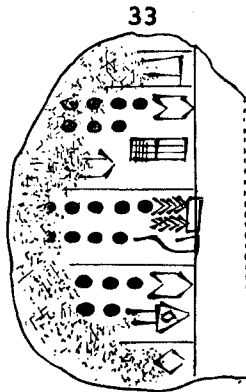
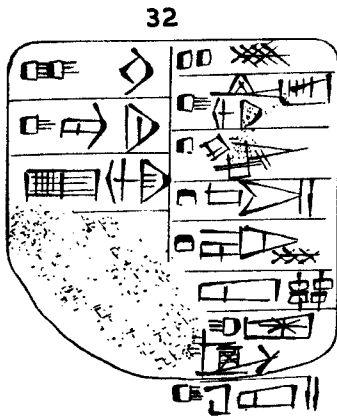
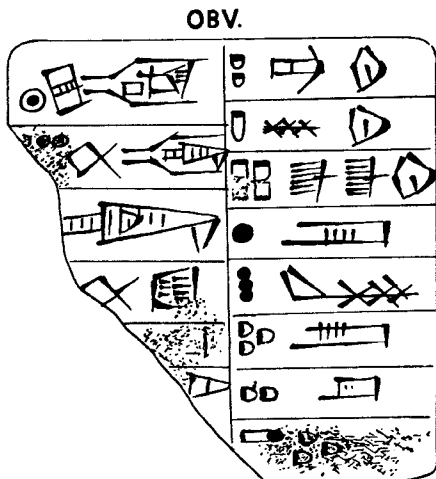
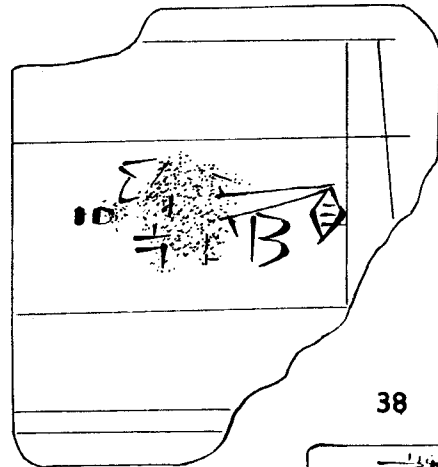


PLATE VI.

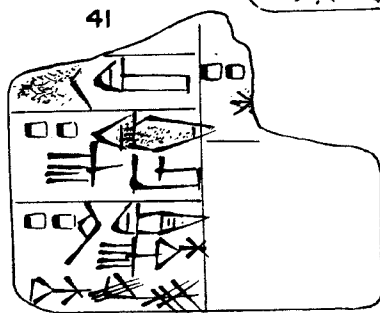
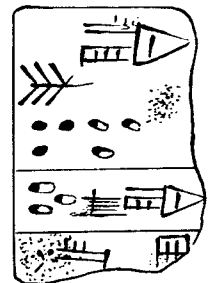


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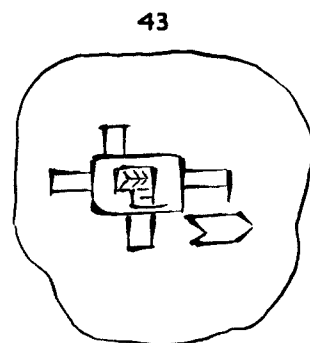
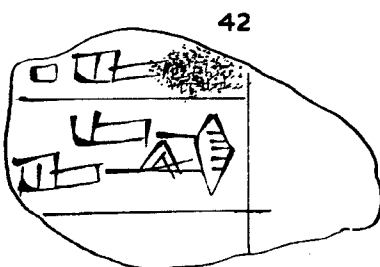
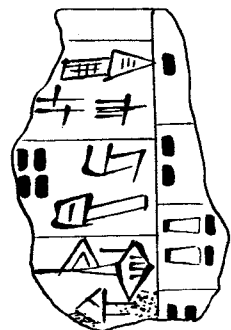


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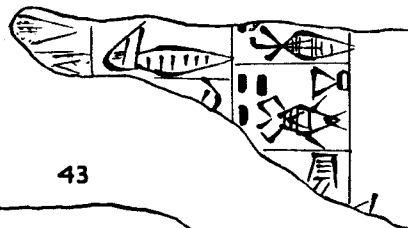
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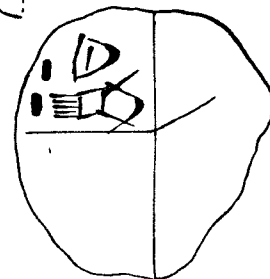
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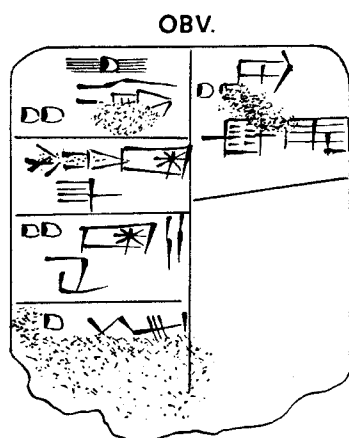
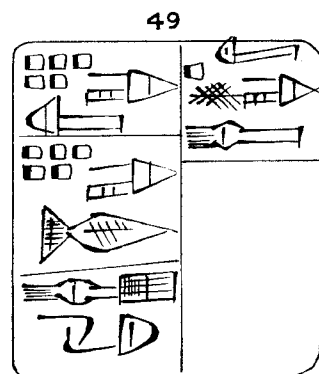
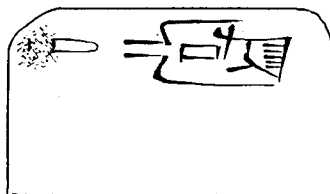
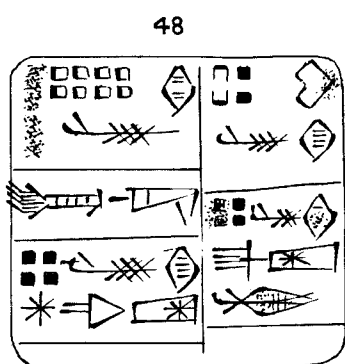
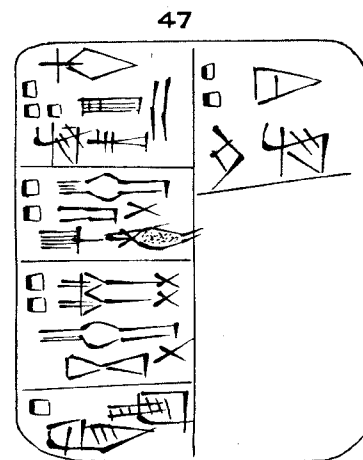
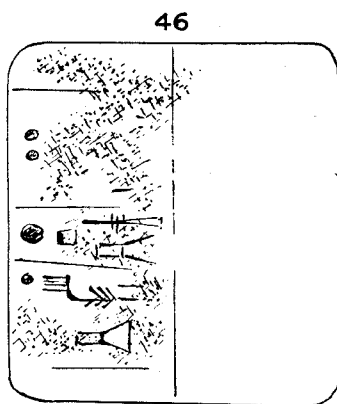
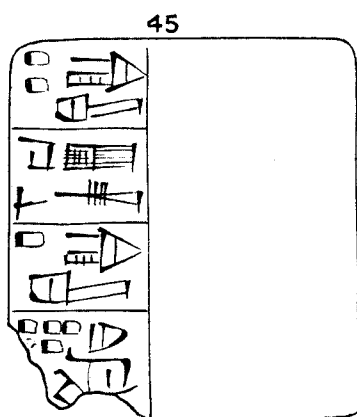


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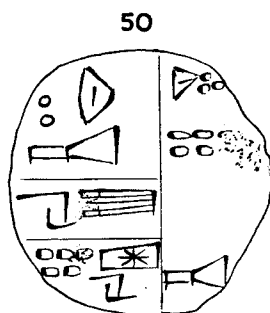


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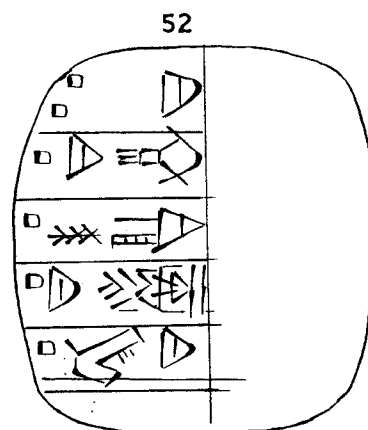
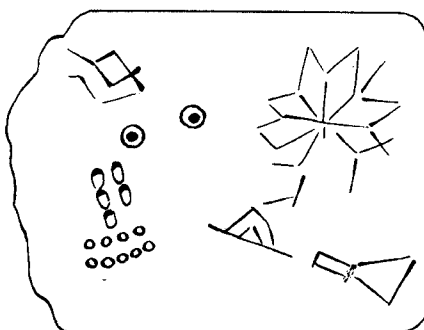




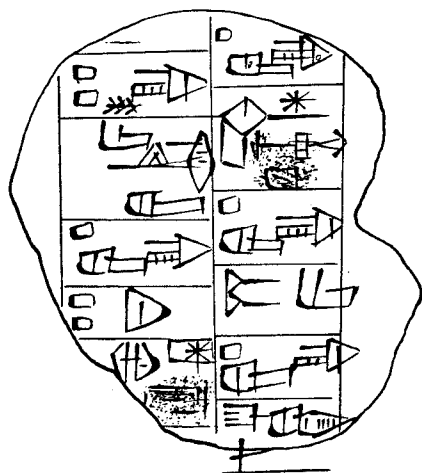
51



REV.



OBV.



REV.

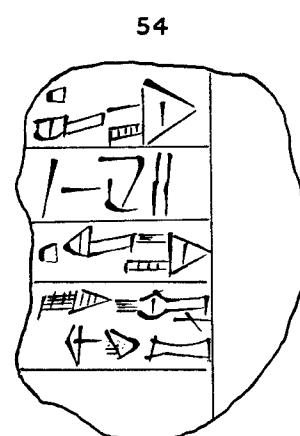
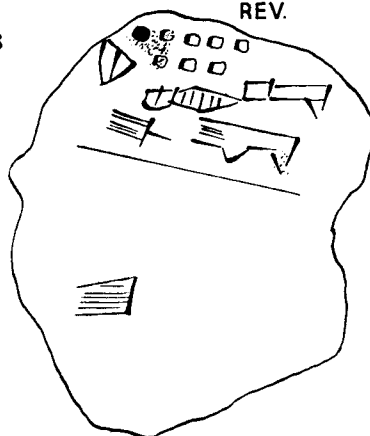
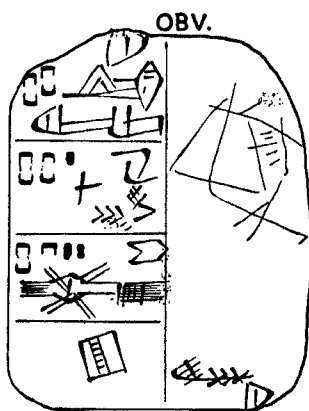
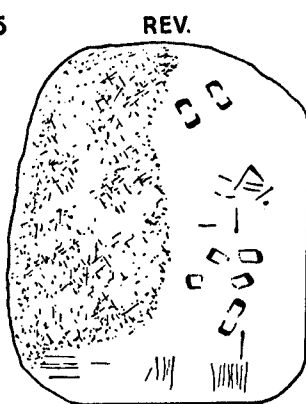


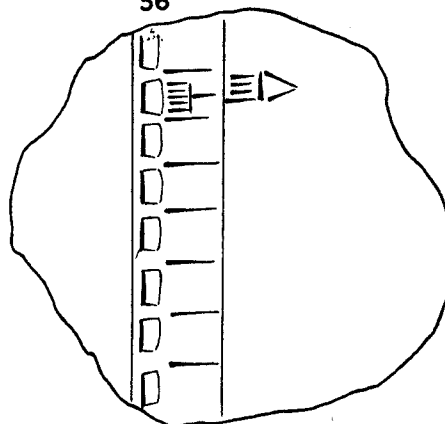
PLATE VIII.



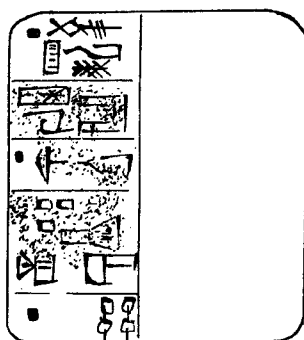
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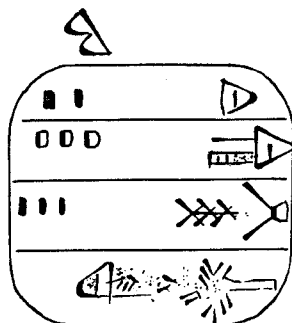
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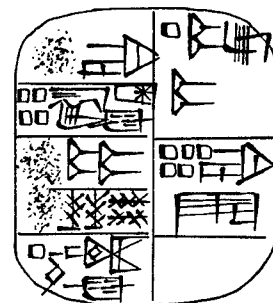
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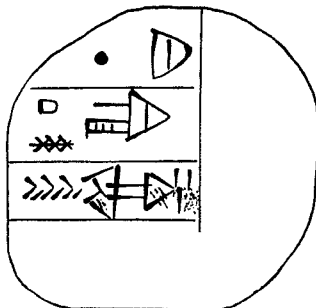
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59



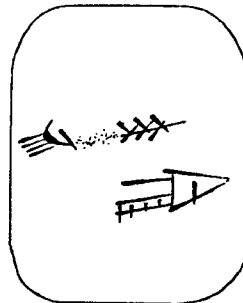
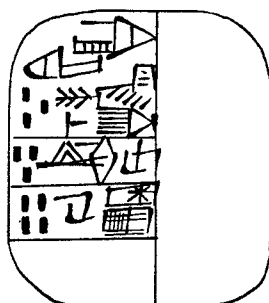
60



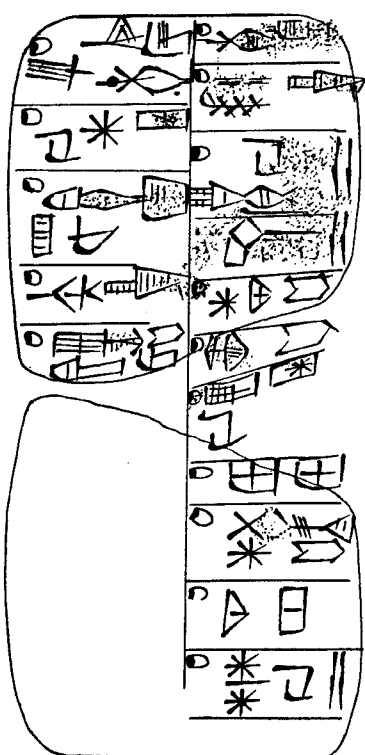
OBV.

61

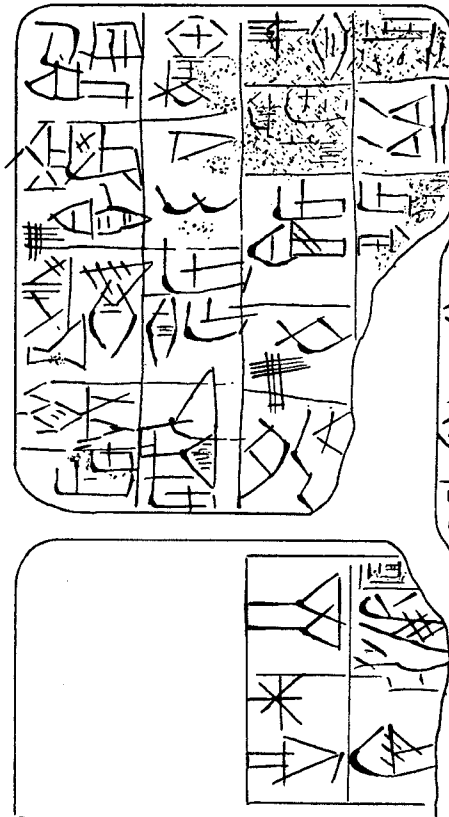
REV.



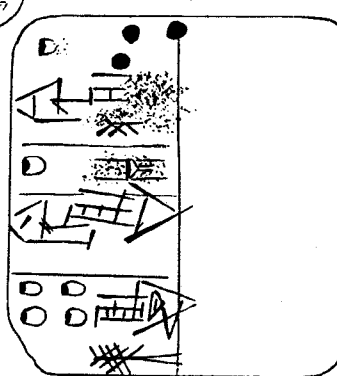
62



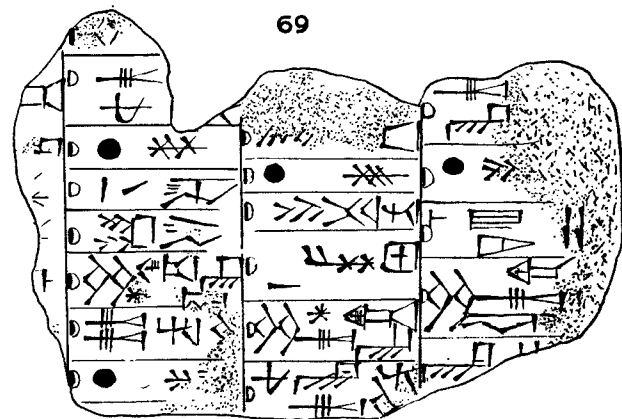
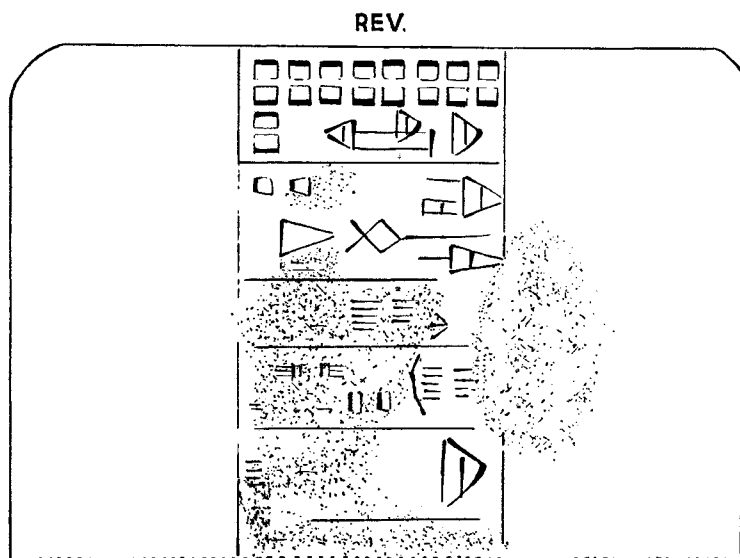
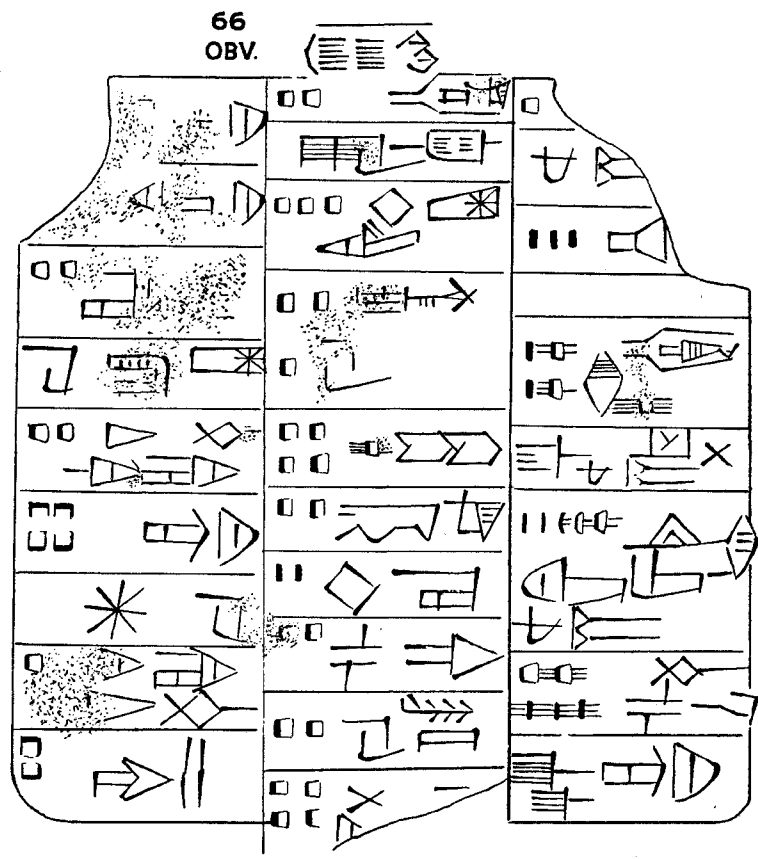
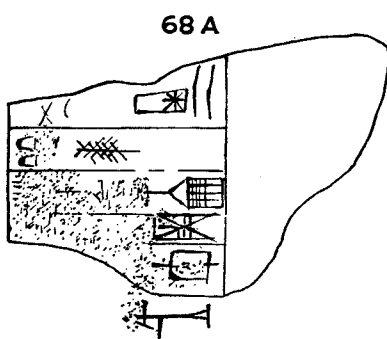
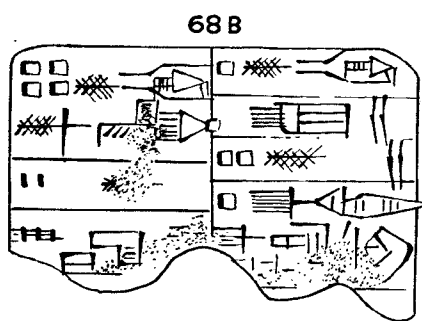
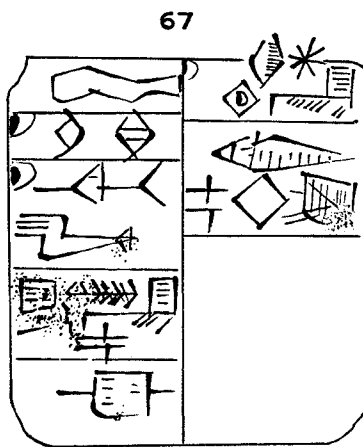
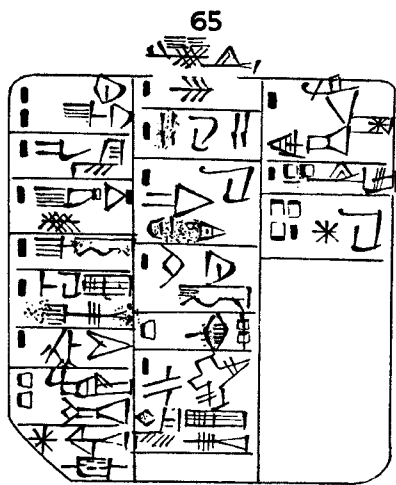
63

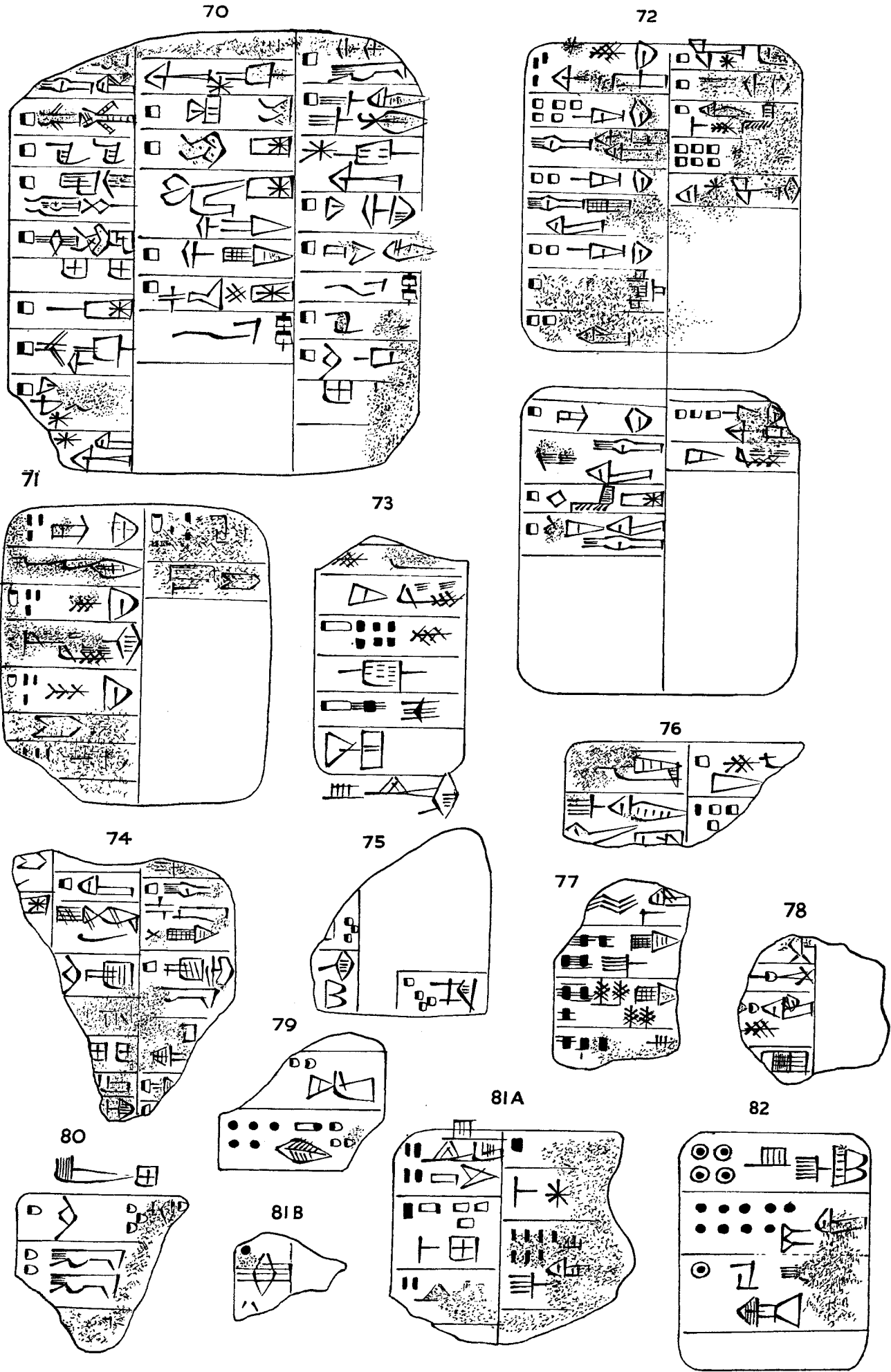


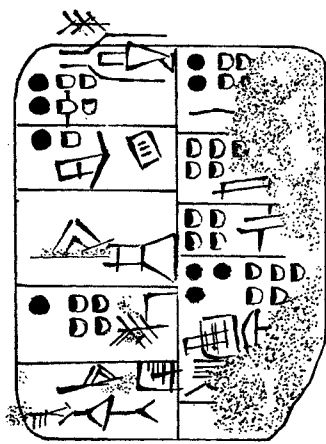
64



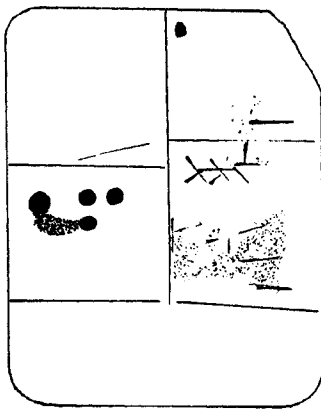




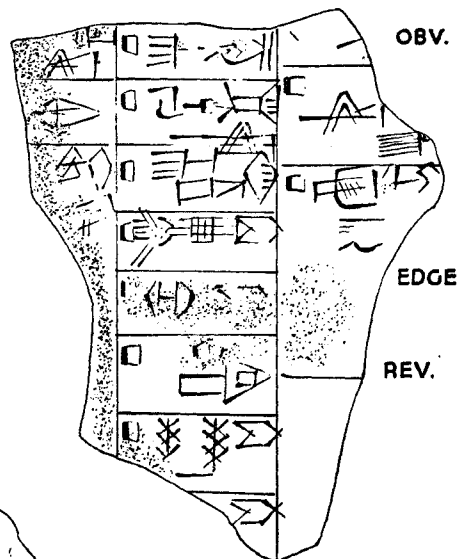




83



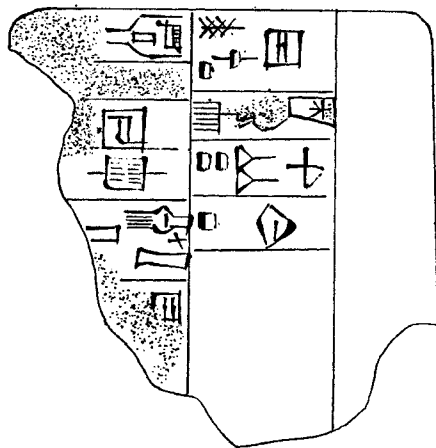
84



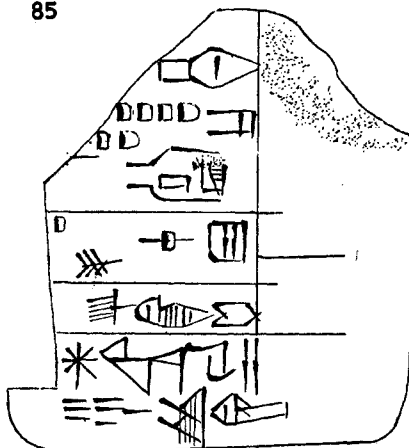
OBV.

EDGE

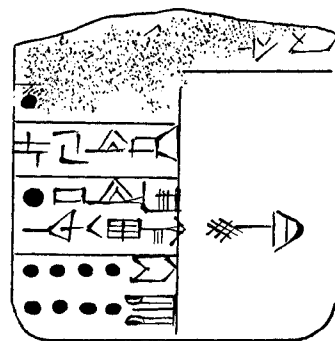
REV.



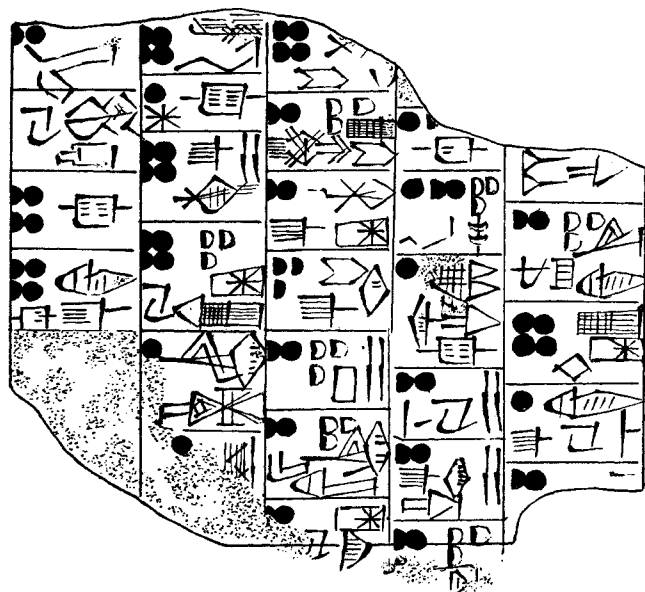
85



86



87



88

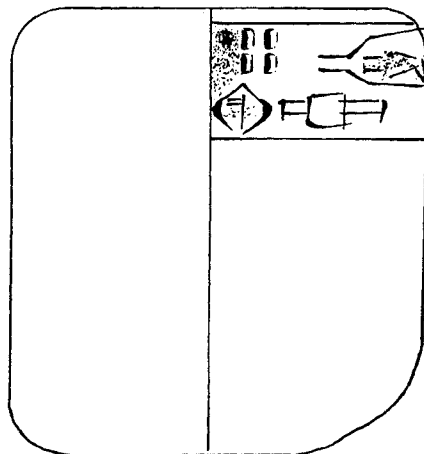
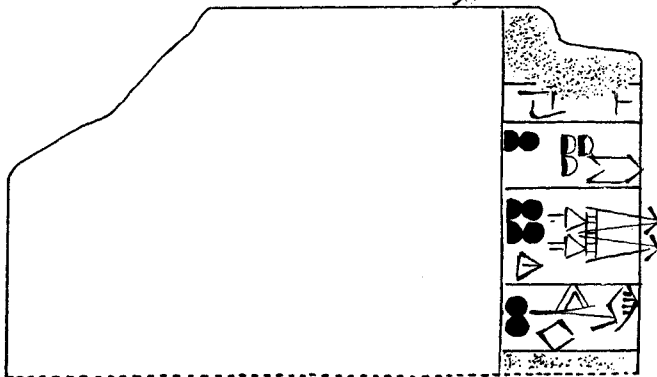
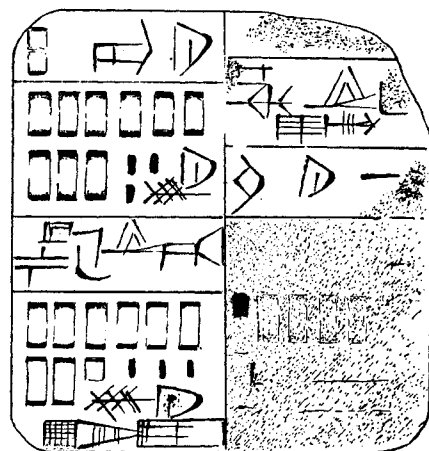
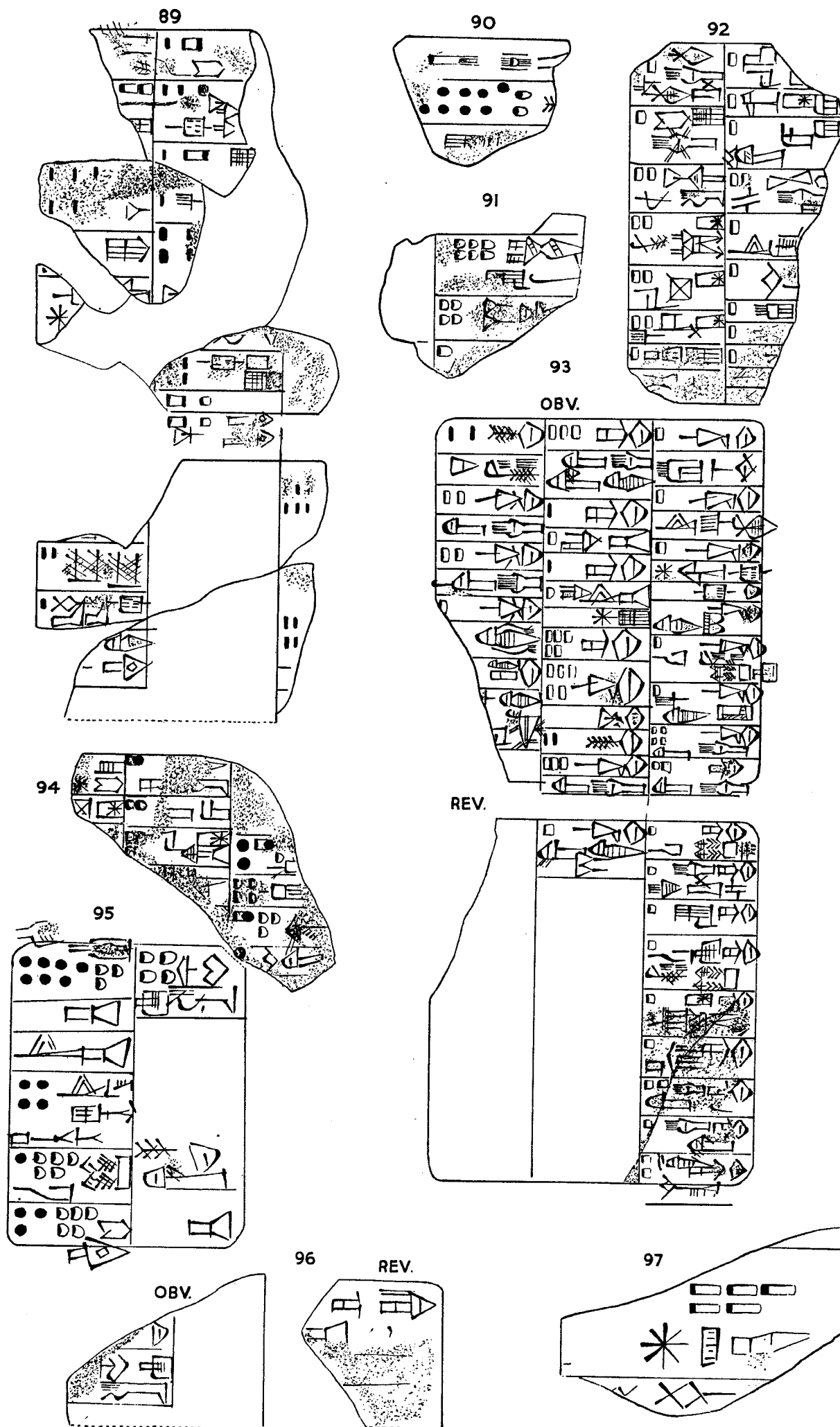
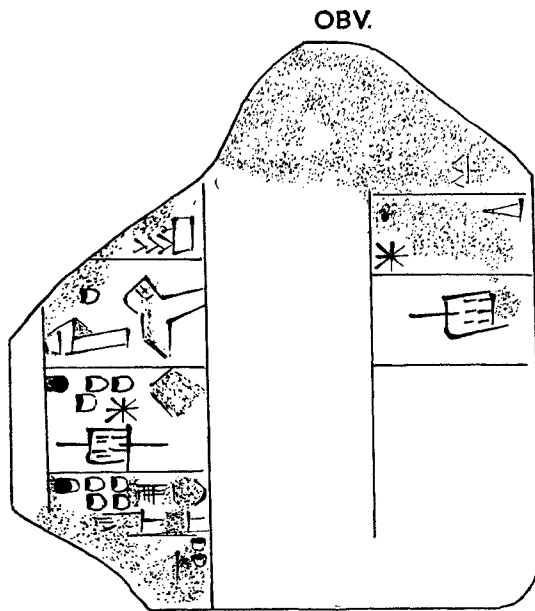
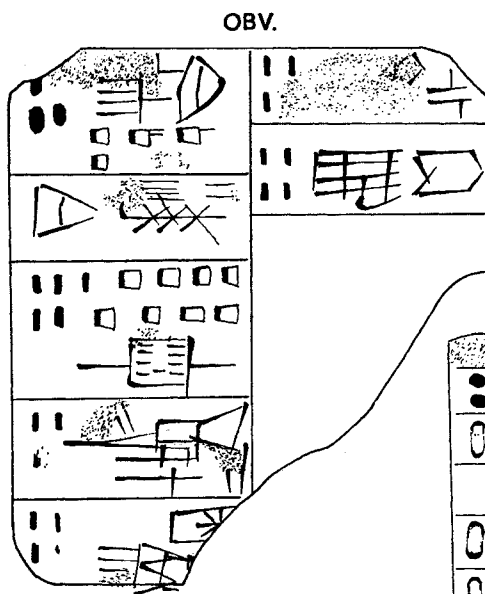
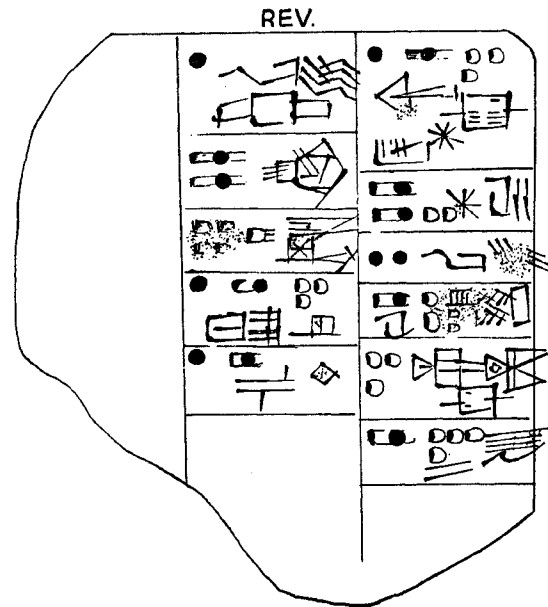


PLATE XII.

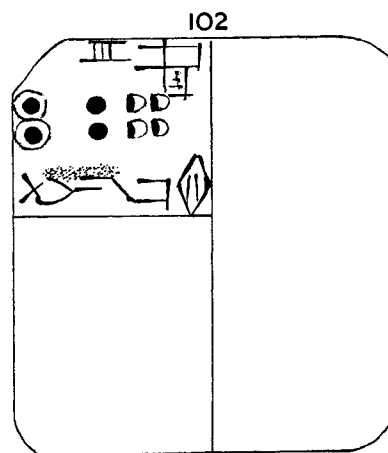
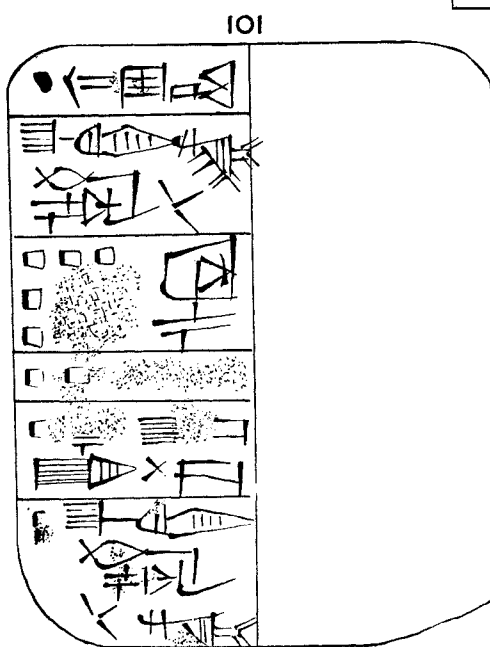
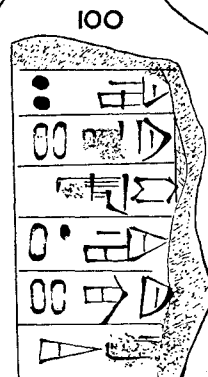
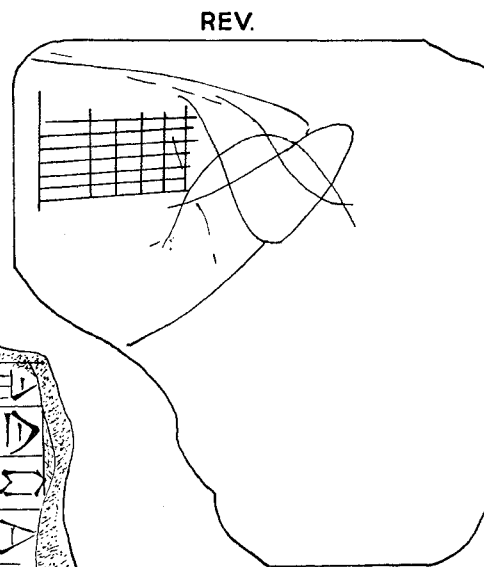




98



99



103

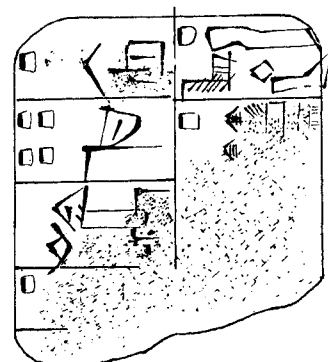
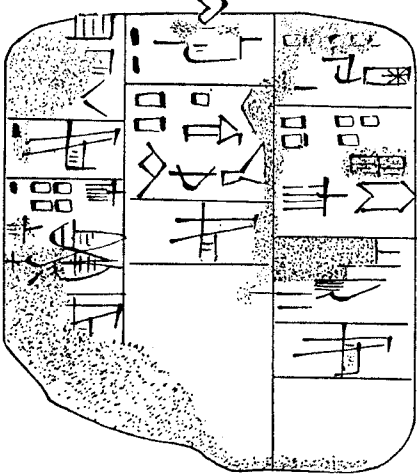
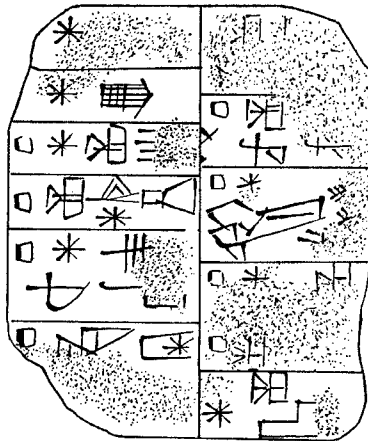


PLATE XIV.

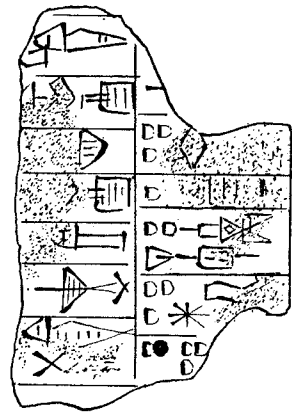
104  
OBV.



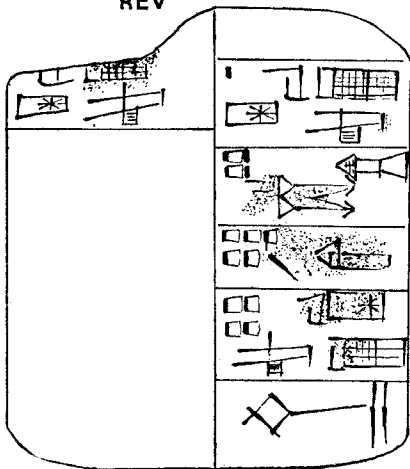
105  
OBV.



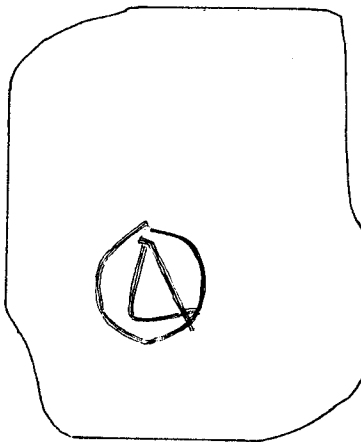
106



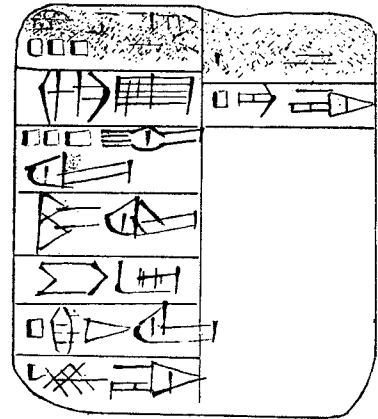
REV



REV.

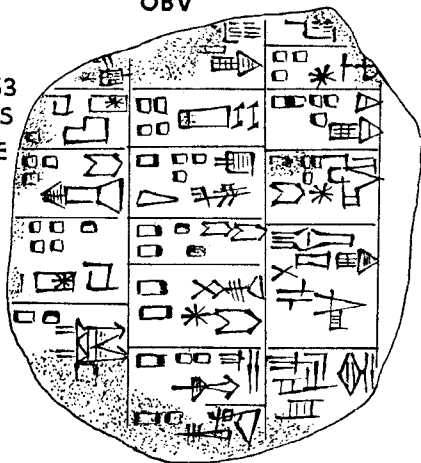


107

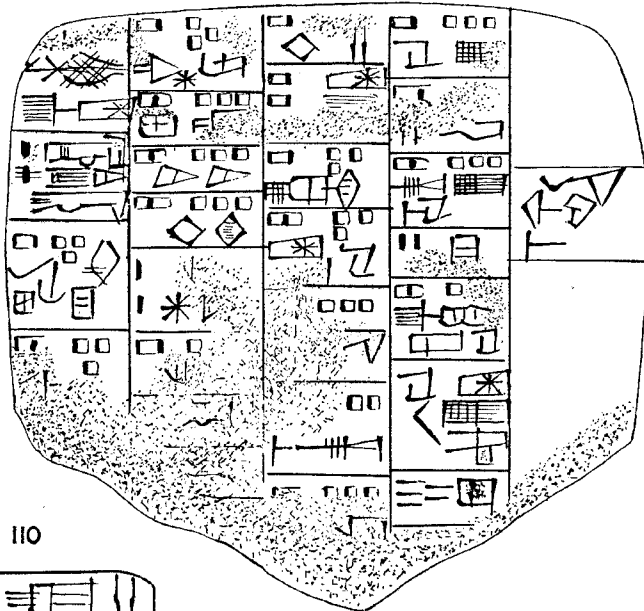


108  
OBV

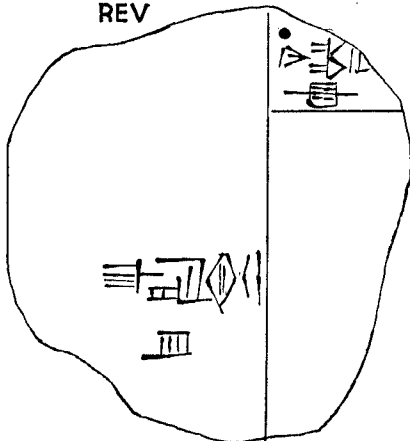
153  
JOINS  
HERE



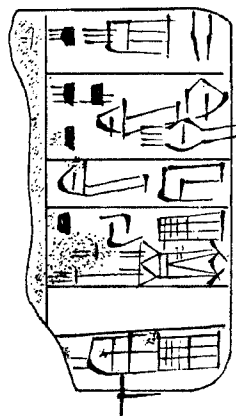
109



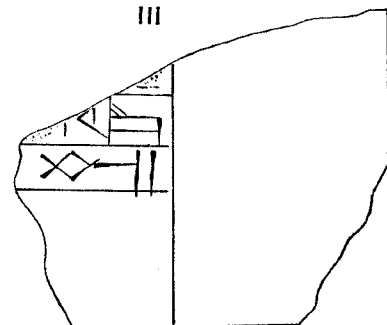
REV

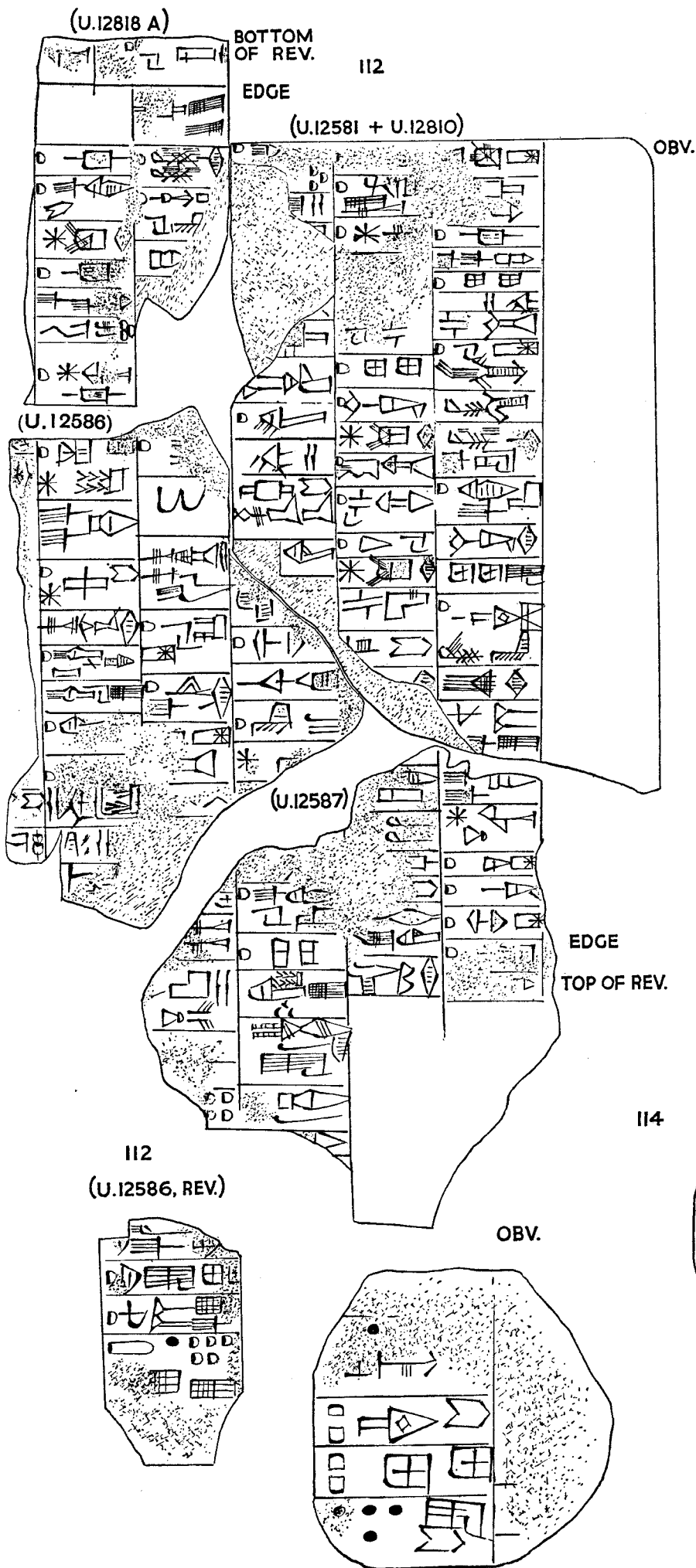


110

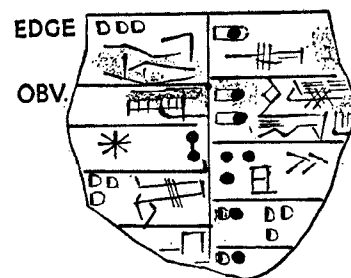


III





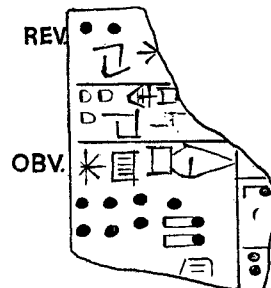
113 B



113 C



113 D



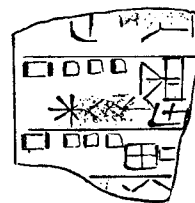
113 E



113 F



113 G



114

REV.

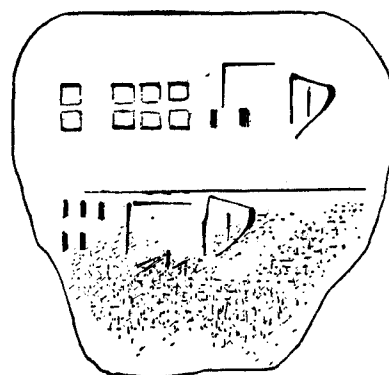
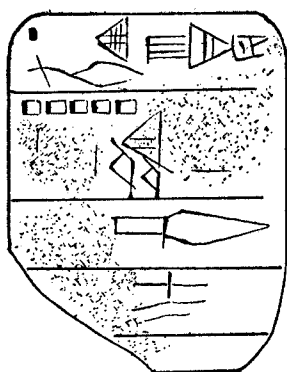
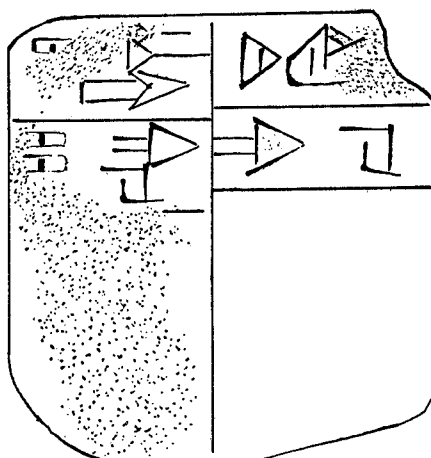


PLATE XVI.

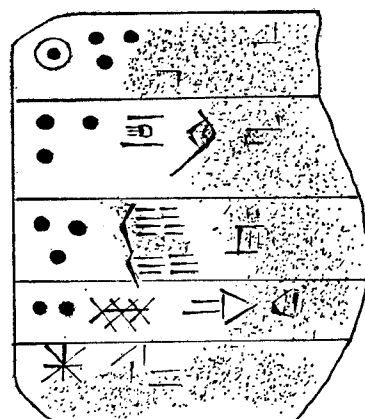
115



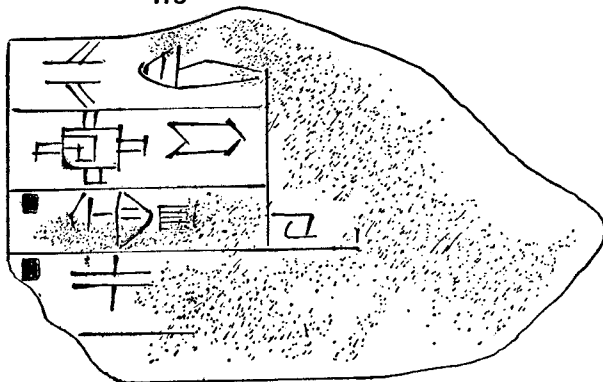
116



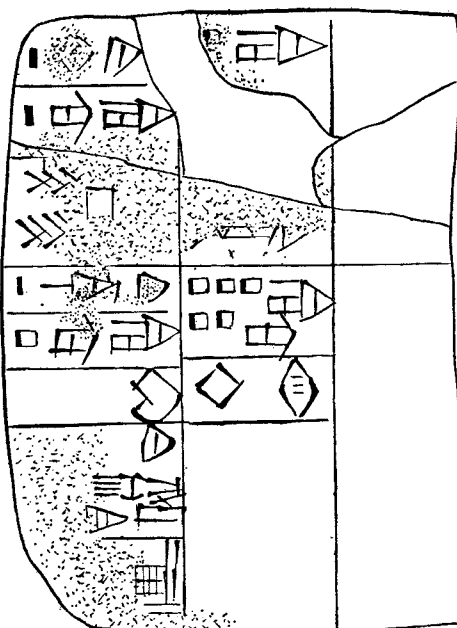
117



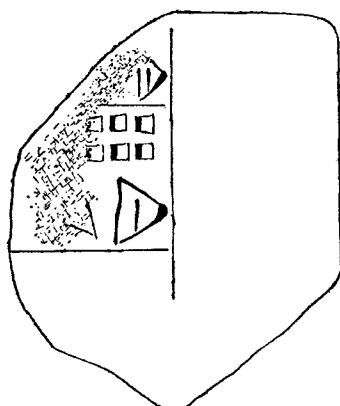
118



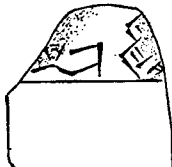
119



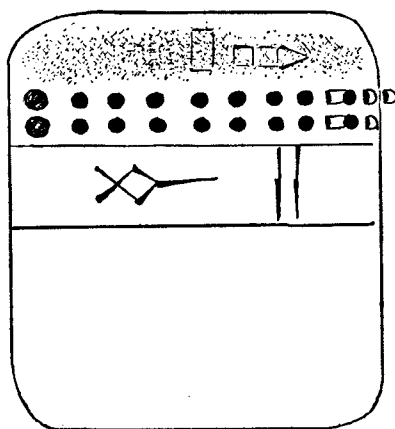
120



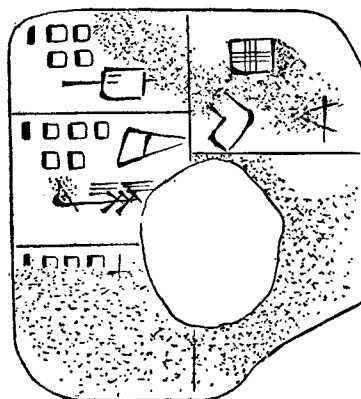
121



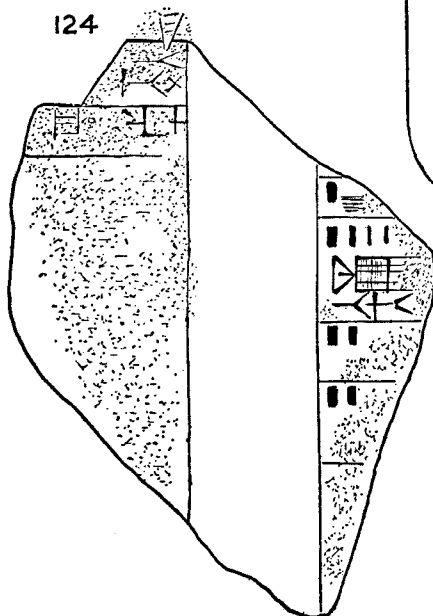
122



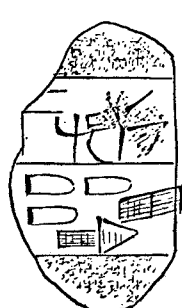
123



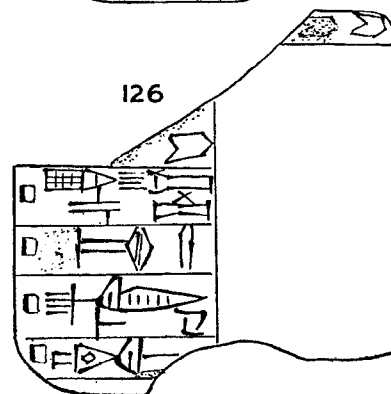
124



125



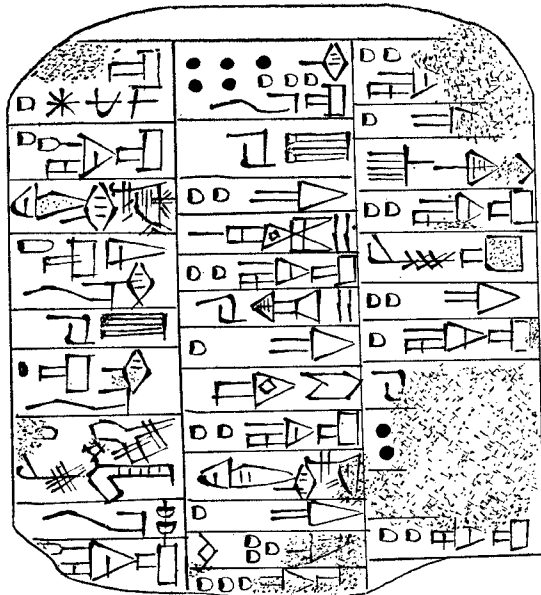
126



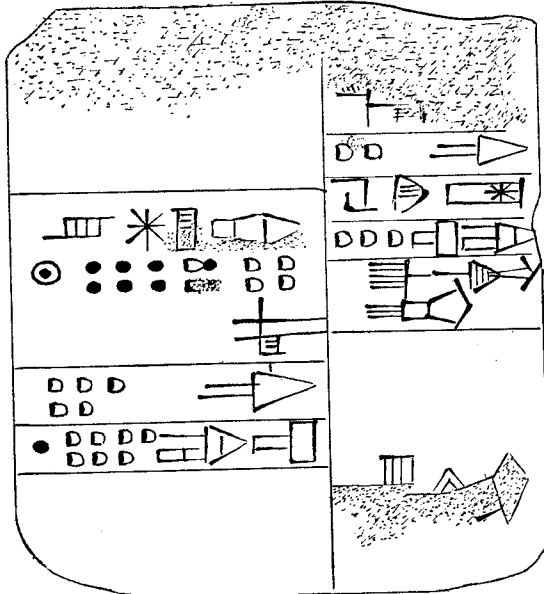


127

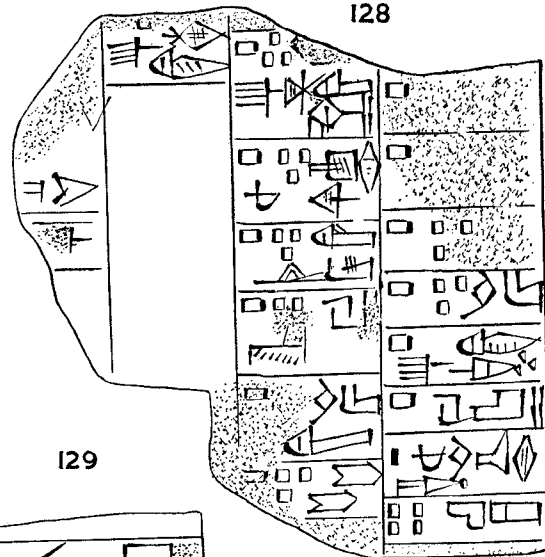
OBV.



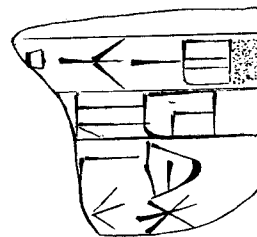
REV.



128

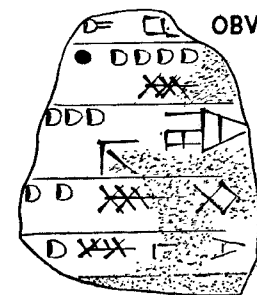


129



132

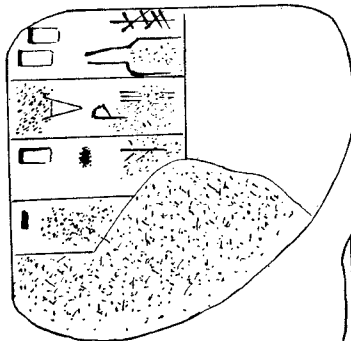
OBV.



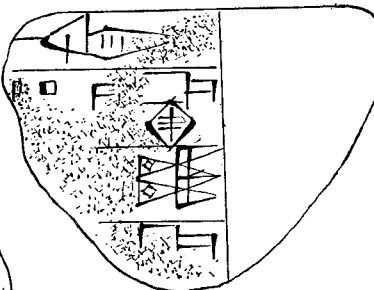
REV



130



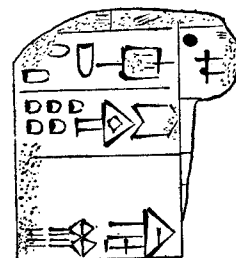
192  
JOINS



133

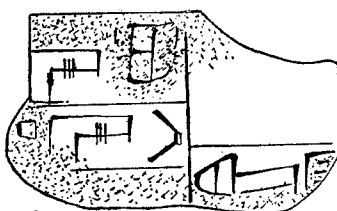


135



134

OBV.



Rev Pl. XVIII

136

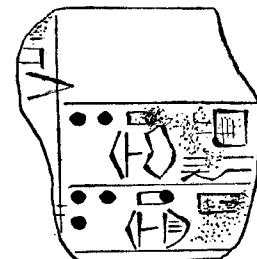
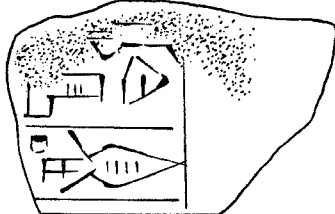
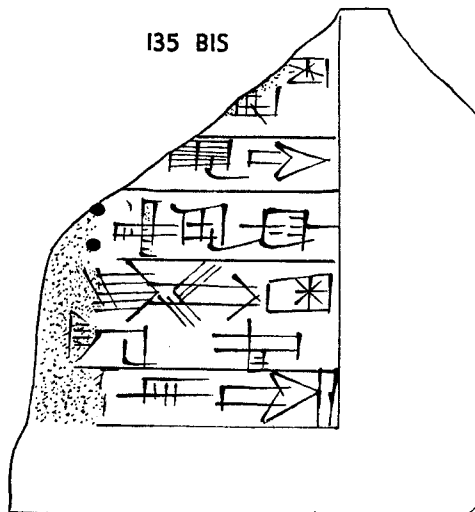


PLATE XVIII.

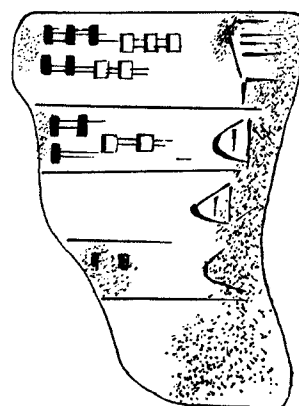
134  
REV



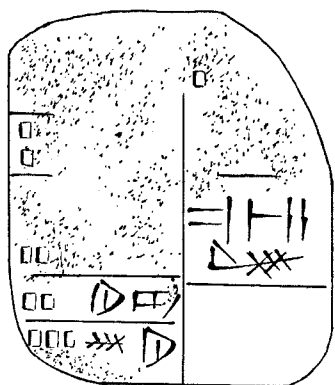
135 BIS



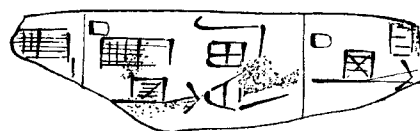
136 BIS



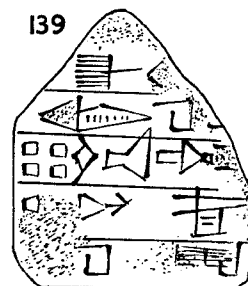
137



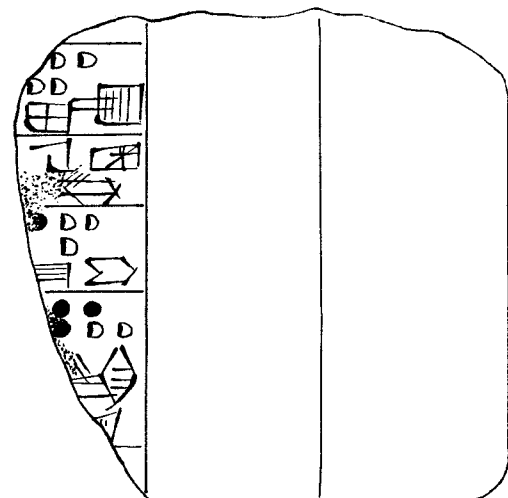
138



139

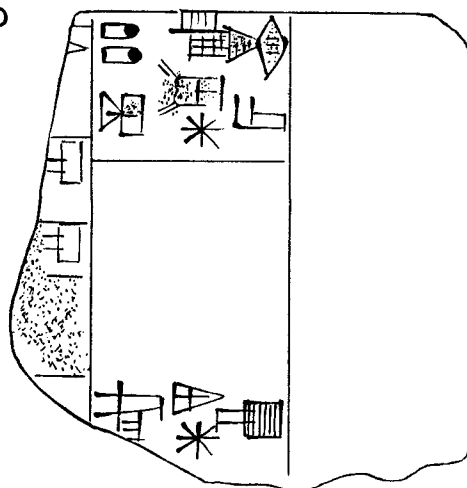


OBV

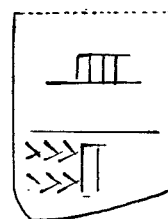


REV.

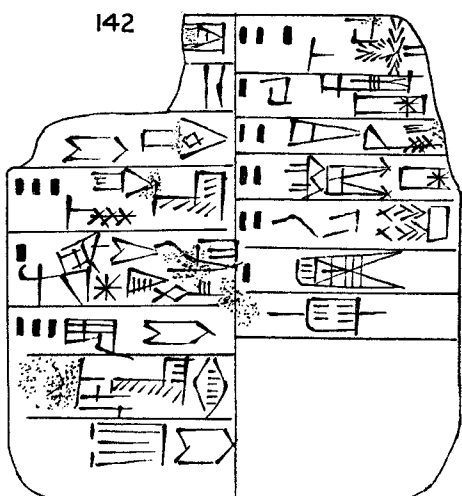
140



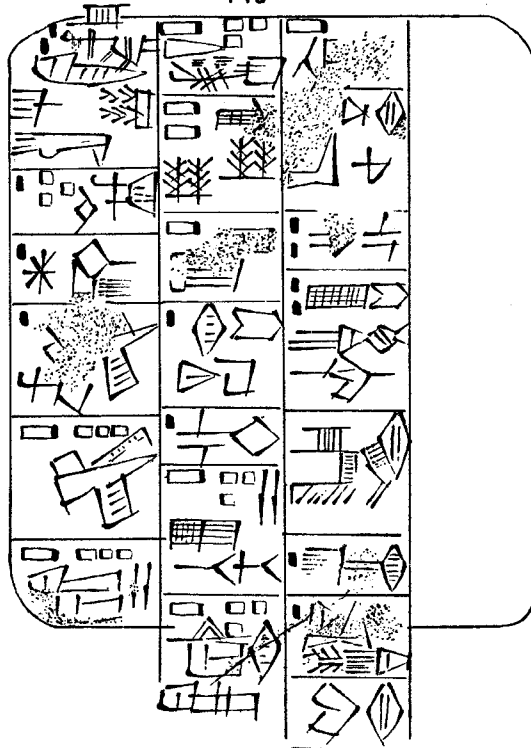
141



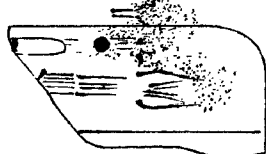
142

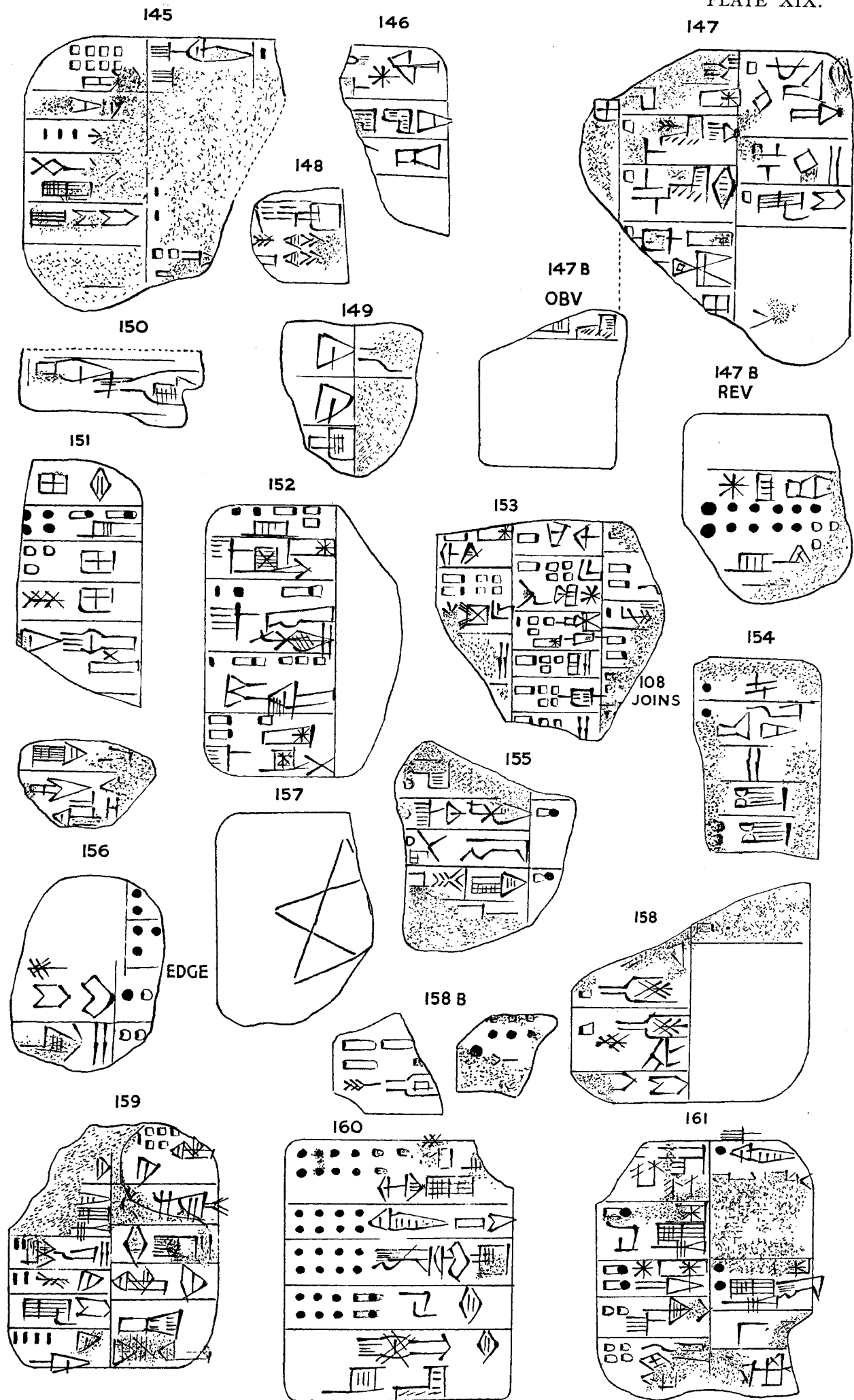


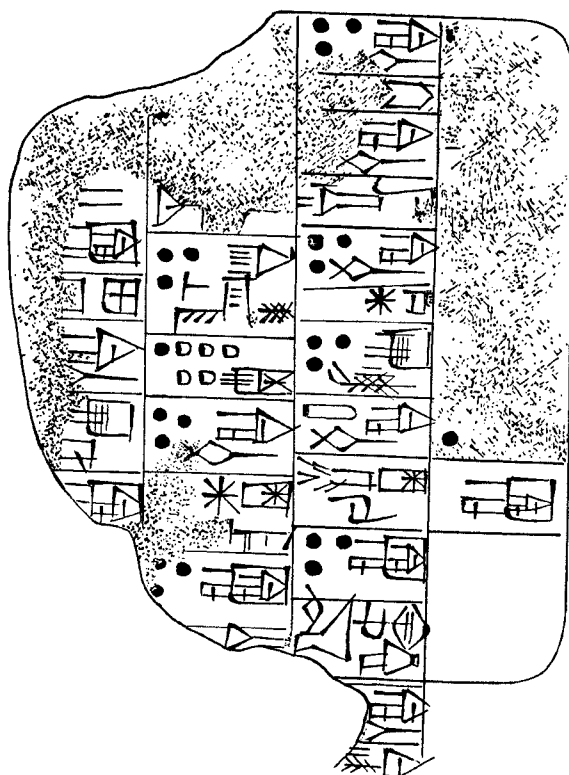
143



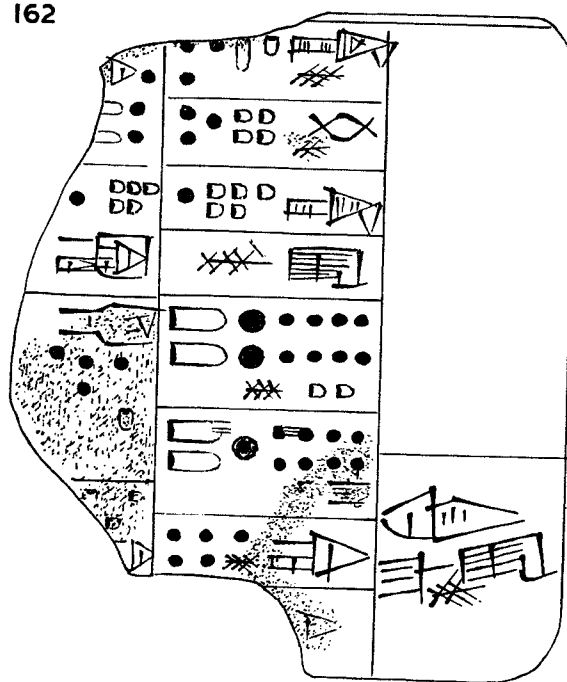
144



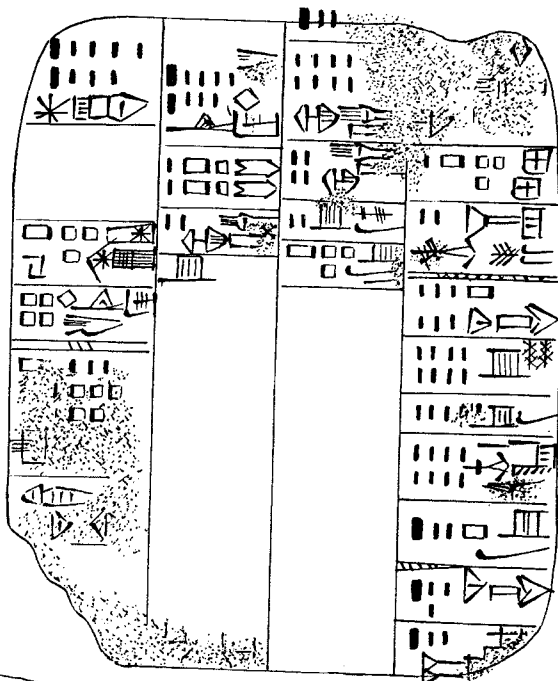
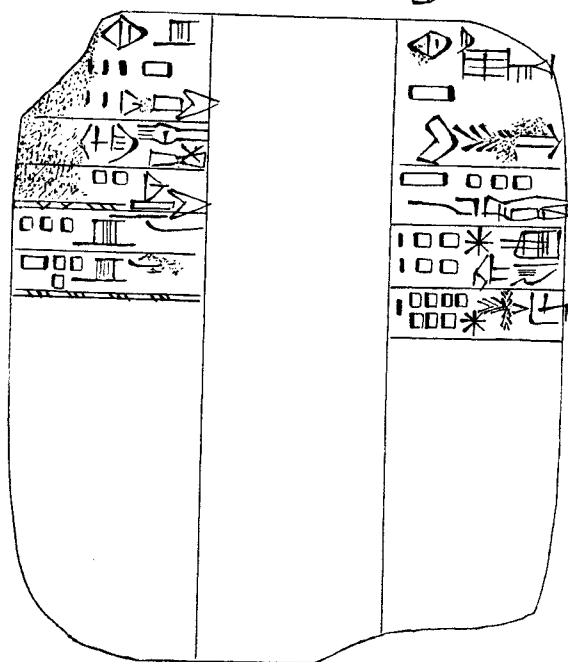




162

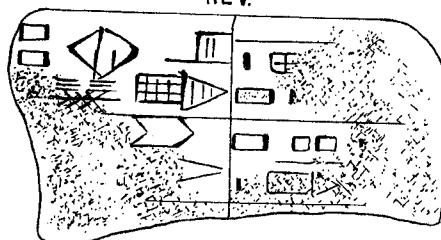


163

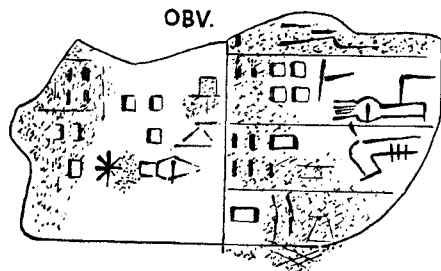


164

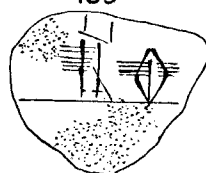
REV.



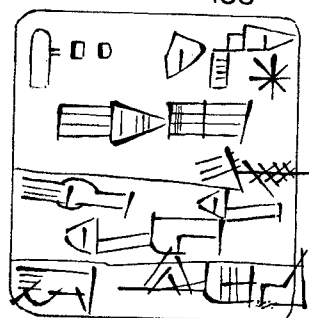
OBV.



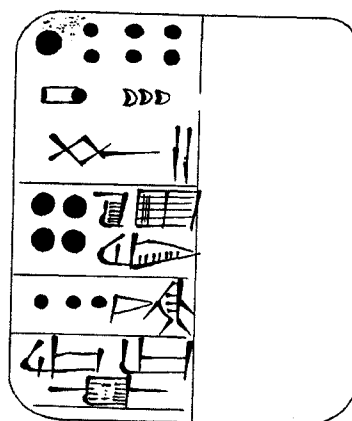
165

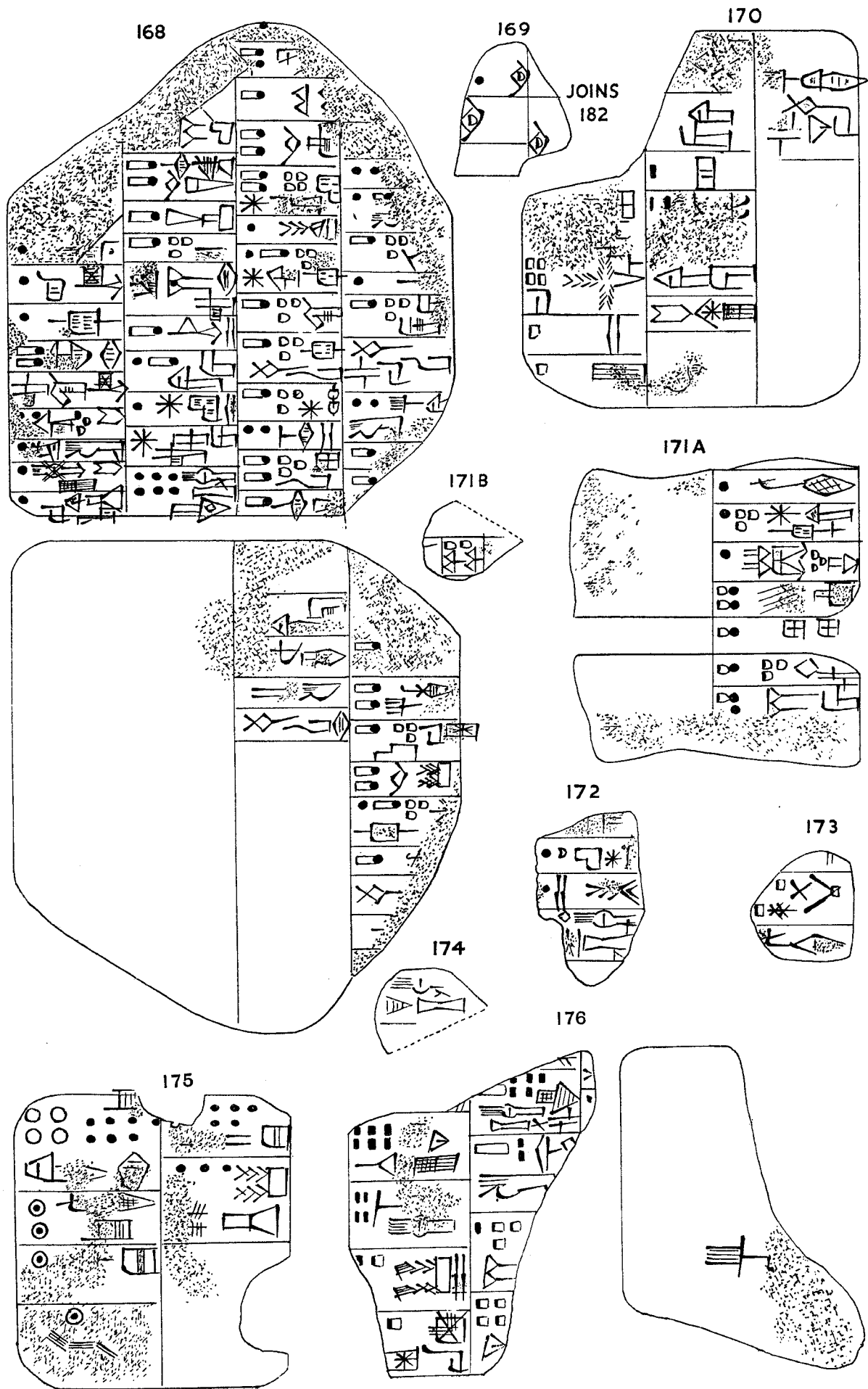


166



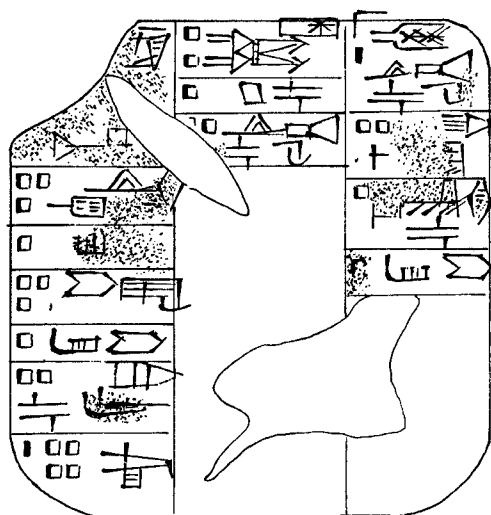
167



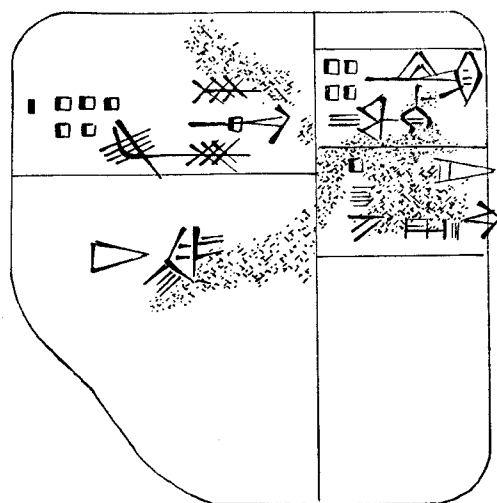


177

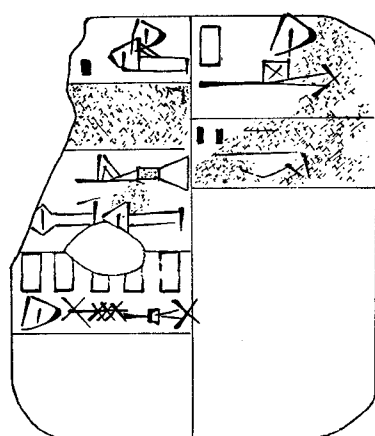
OBV.



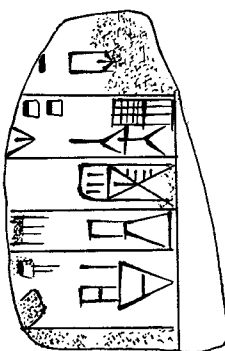
REV.



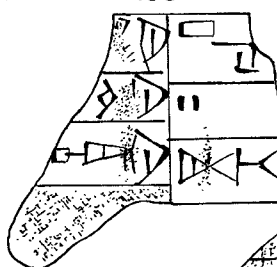
178



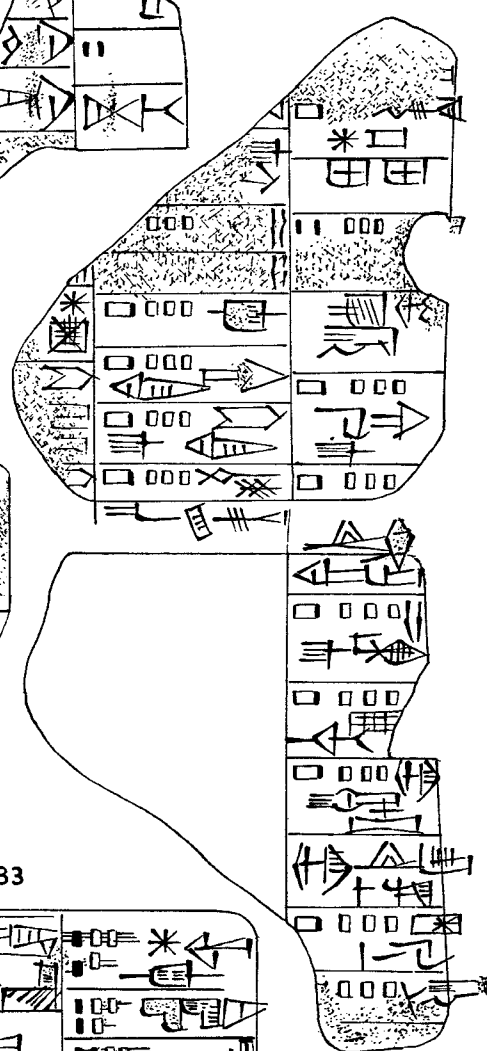
179



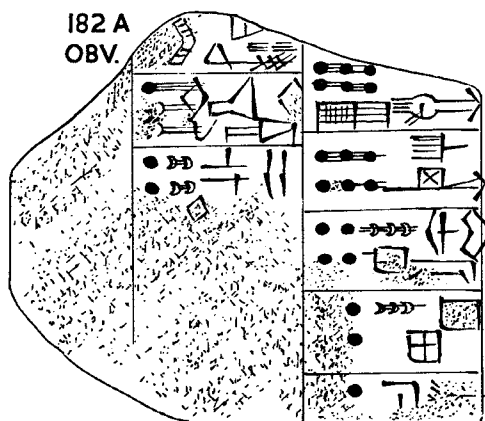
180



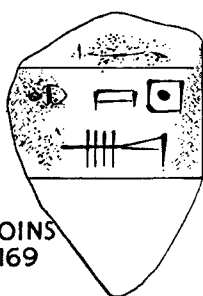
181



182 A  
OBV.

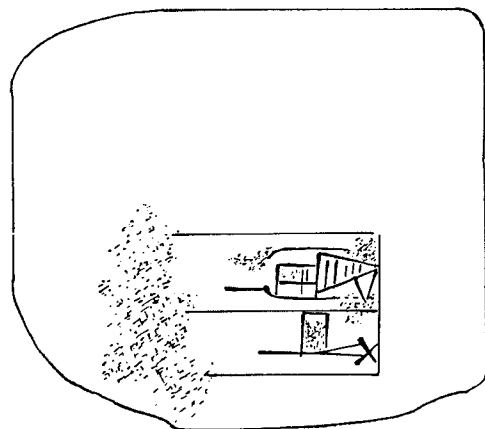


182 B

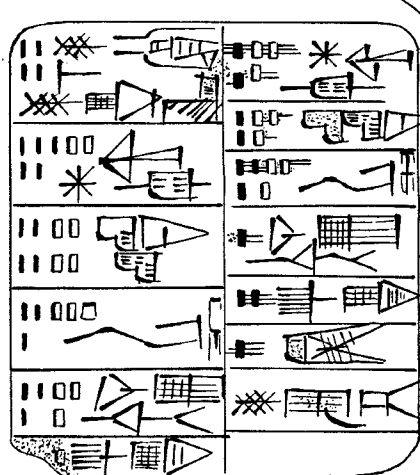


JOINS  
169

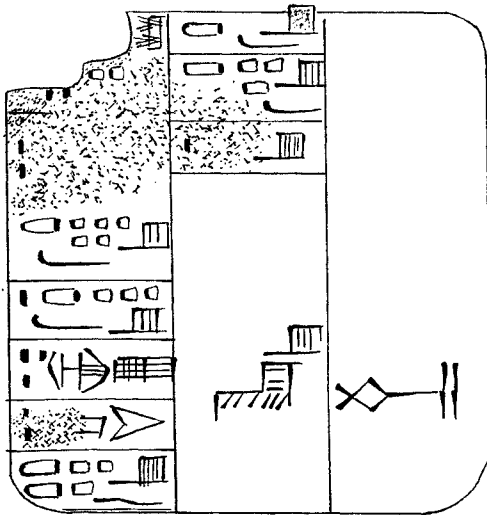
REV.



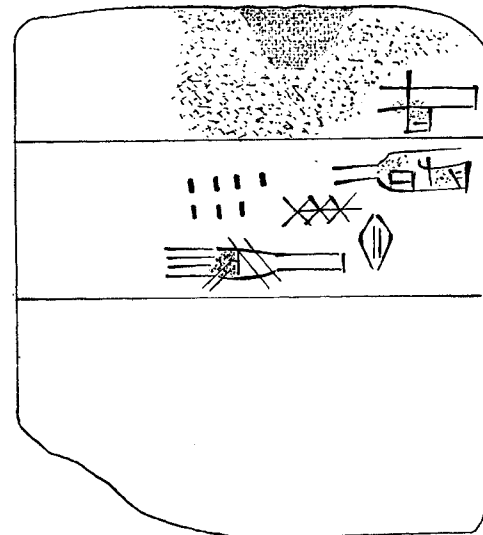
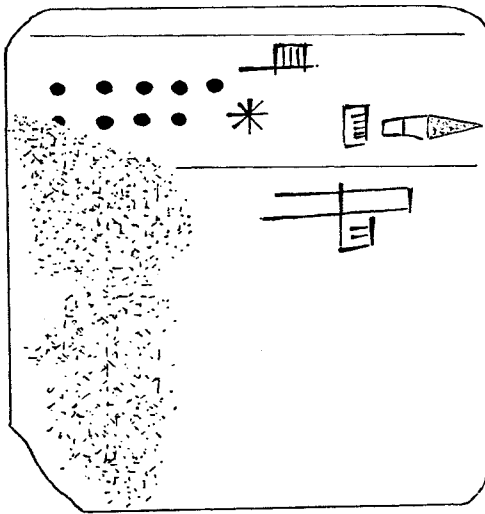
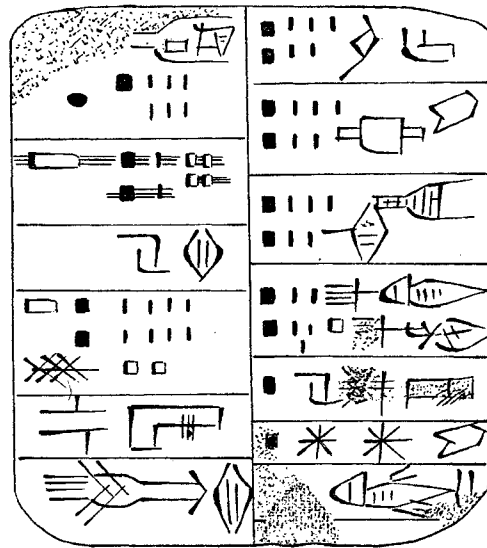
183



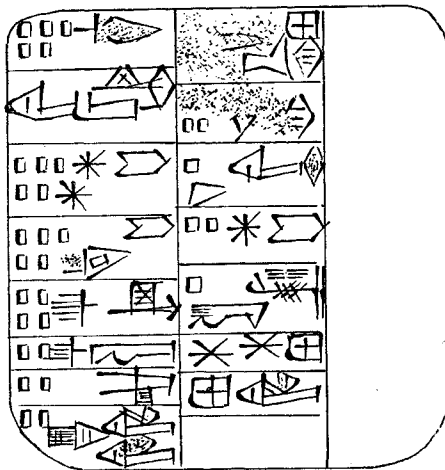
184



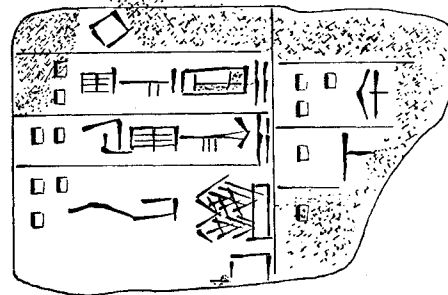
185



186



187



188

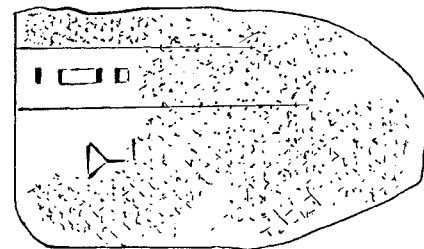
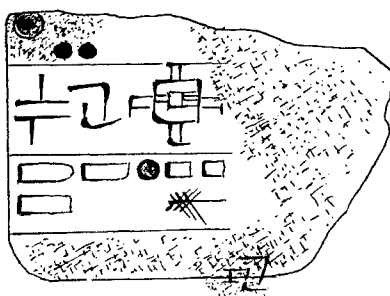
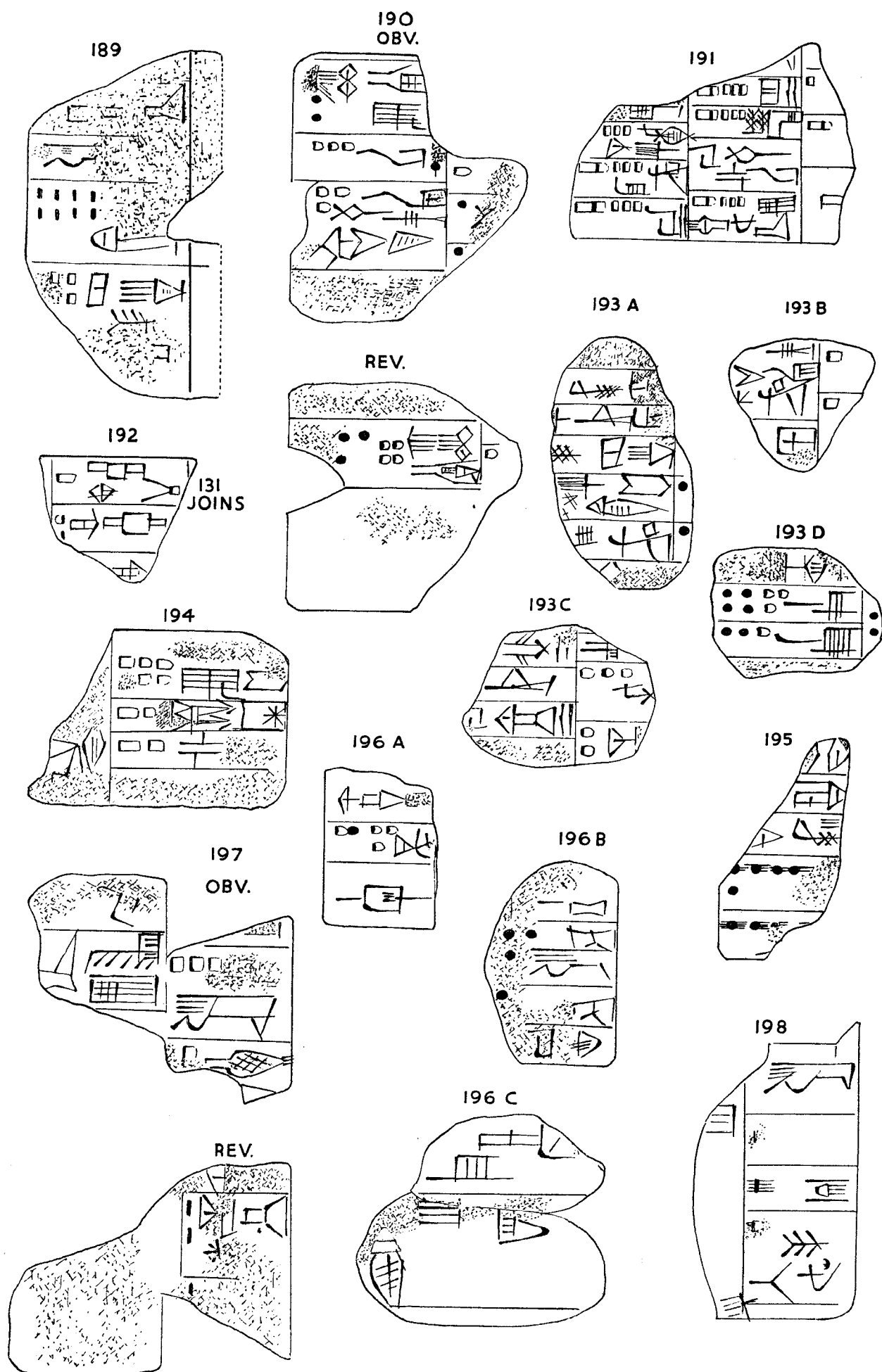
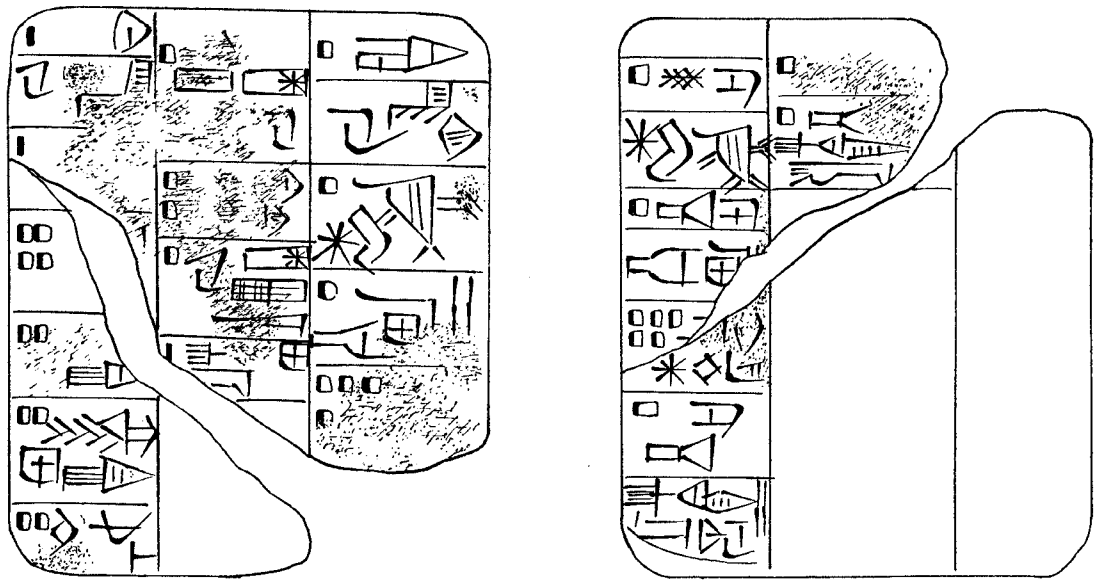


PLATE XXIV.

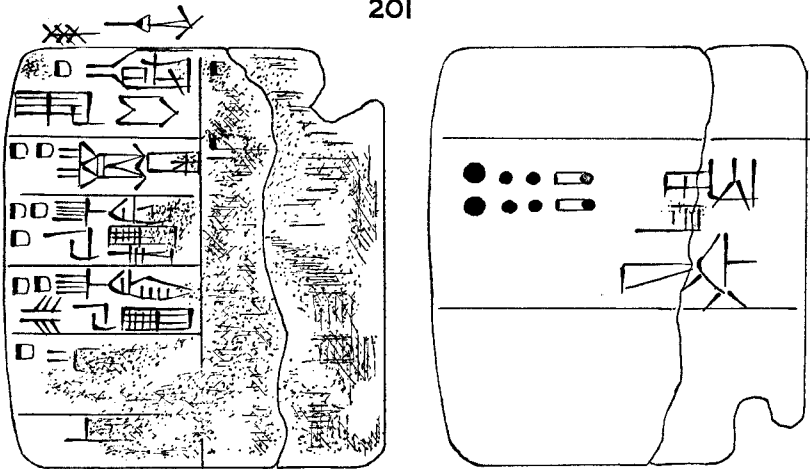




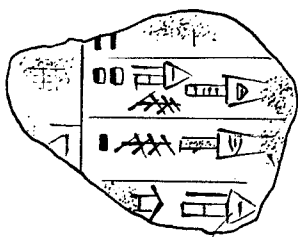
199



201

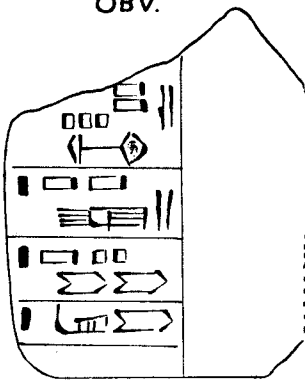


200

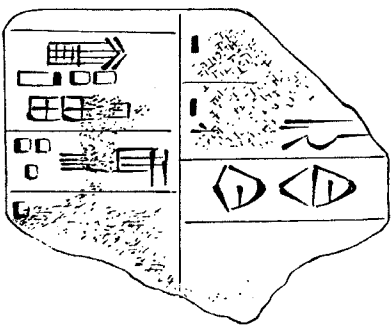


202

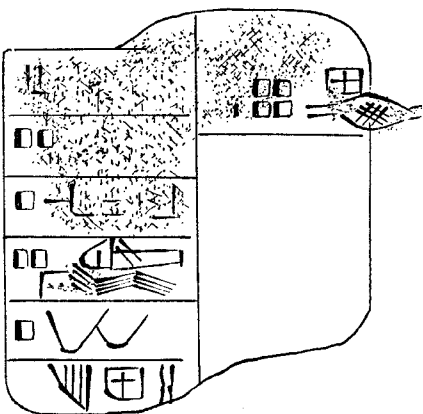
OBV.



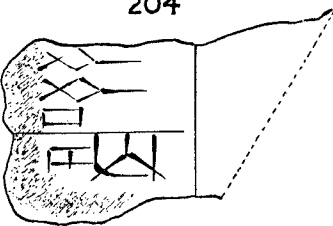
REV.



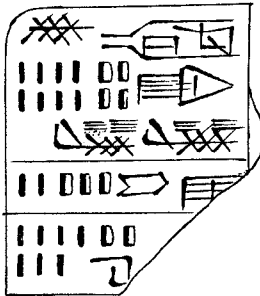
203



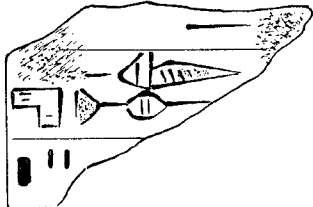
204



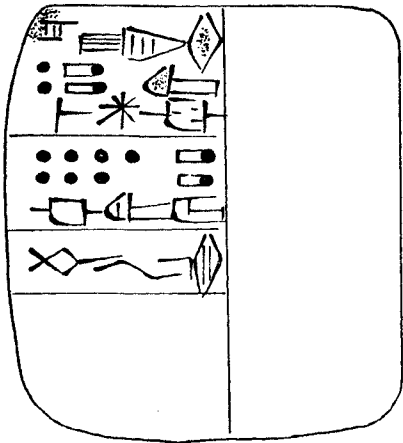
205 A



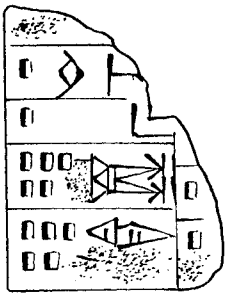
205 B



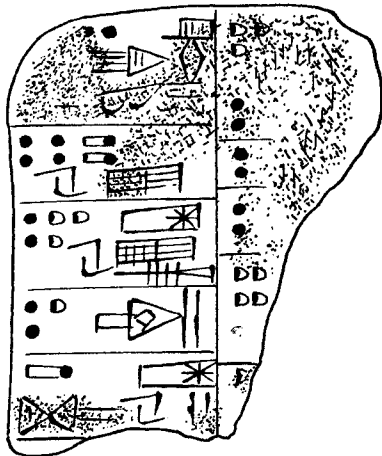
206



207

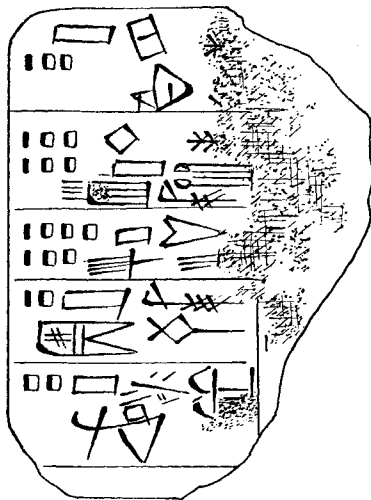


208  
OBV.



209

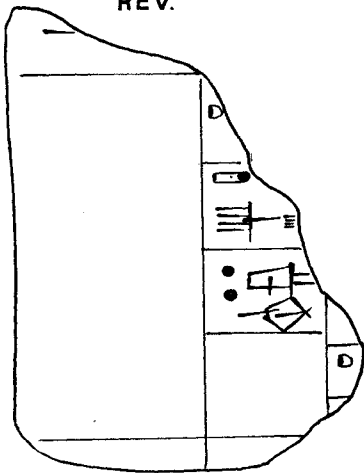
OBV.



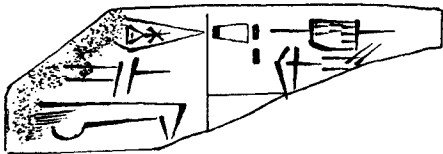
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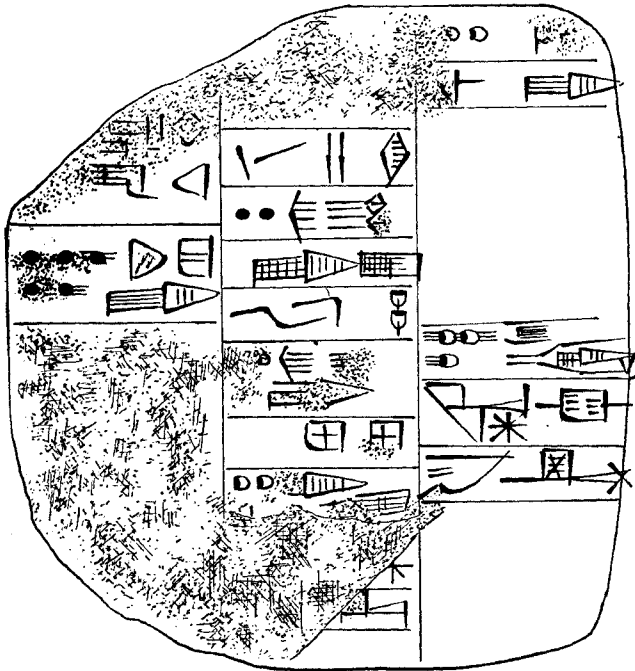
REV.



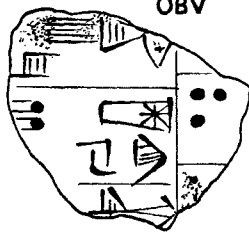
210



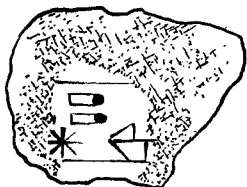
212



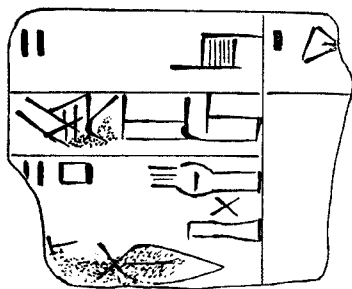
211  
OBV



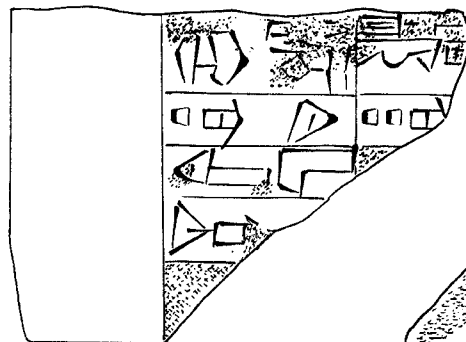
REV



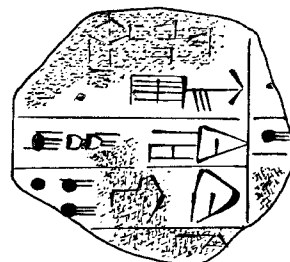
213



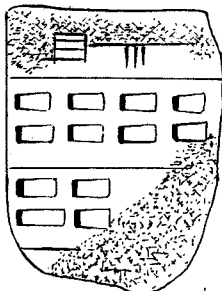
215



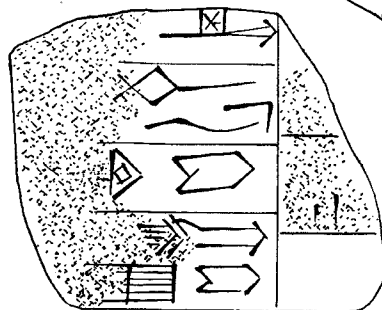
217



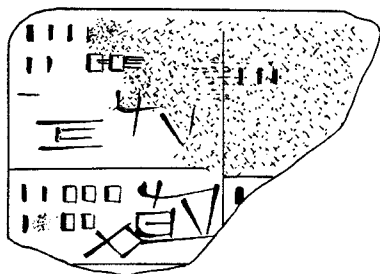
214



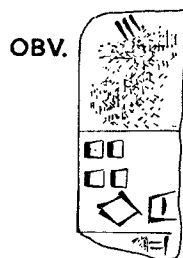
216



218

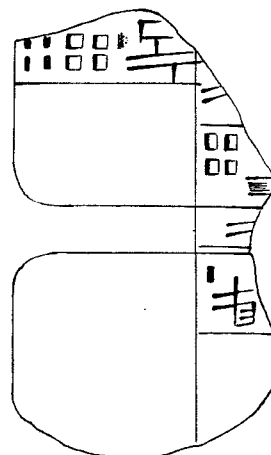


220 A

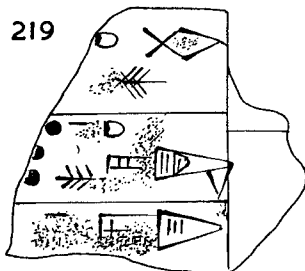


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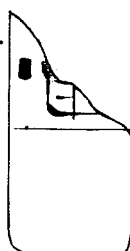
220 B



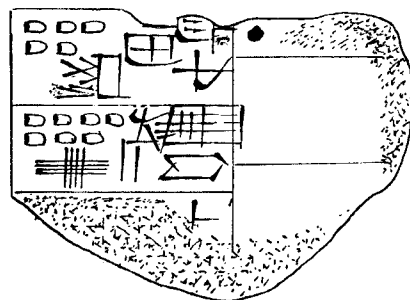
219



REV.

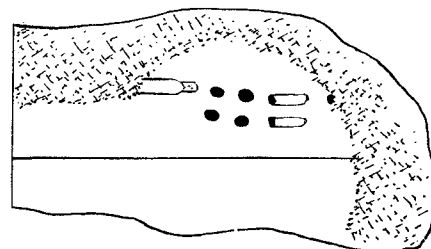


OBV.

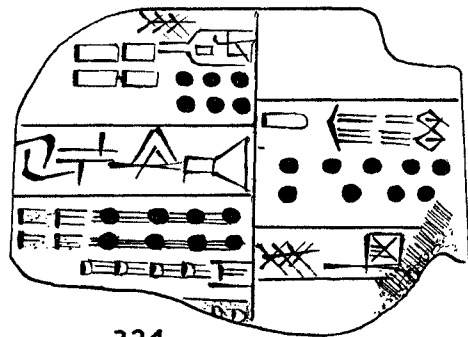


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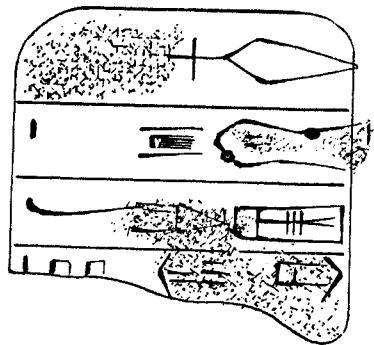
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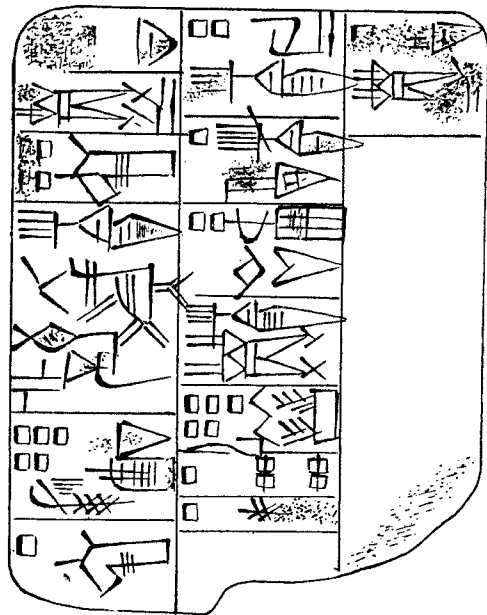
222



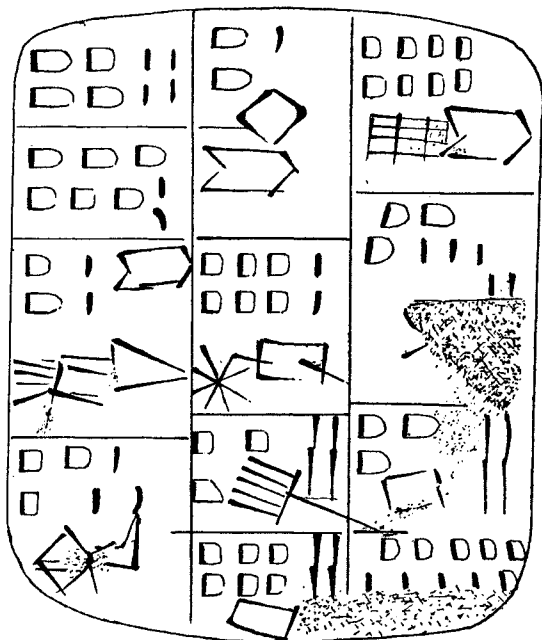
223



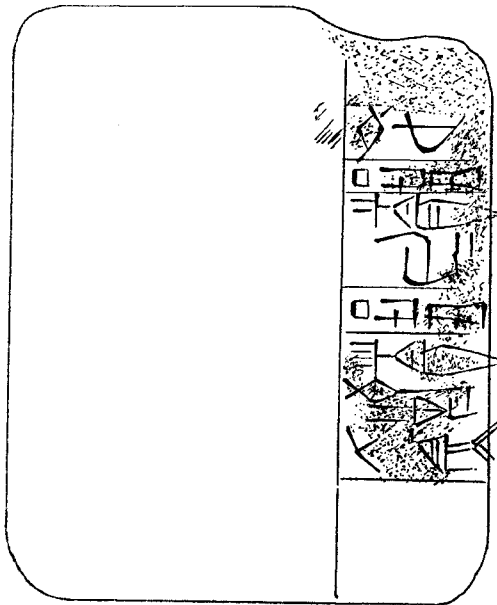
224  
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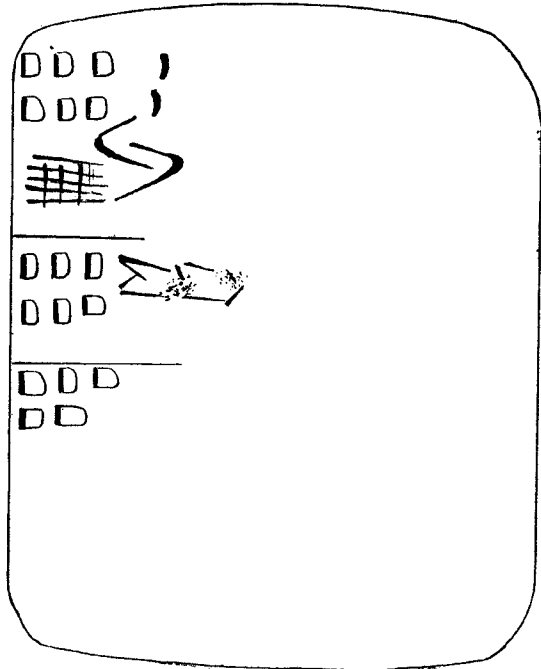
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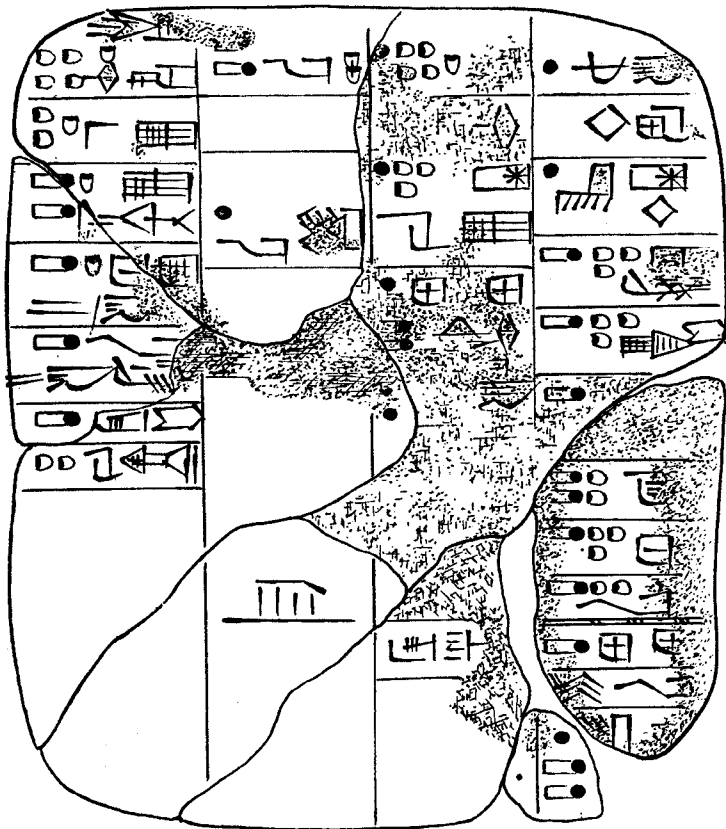
REV.



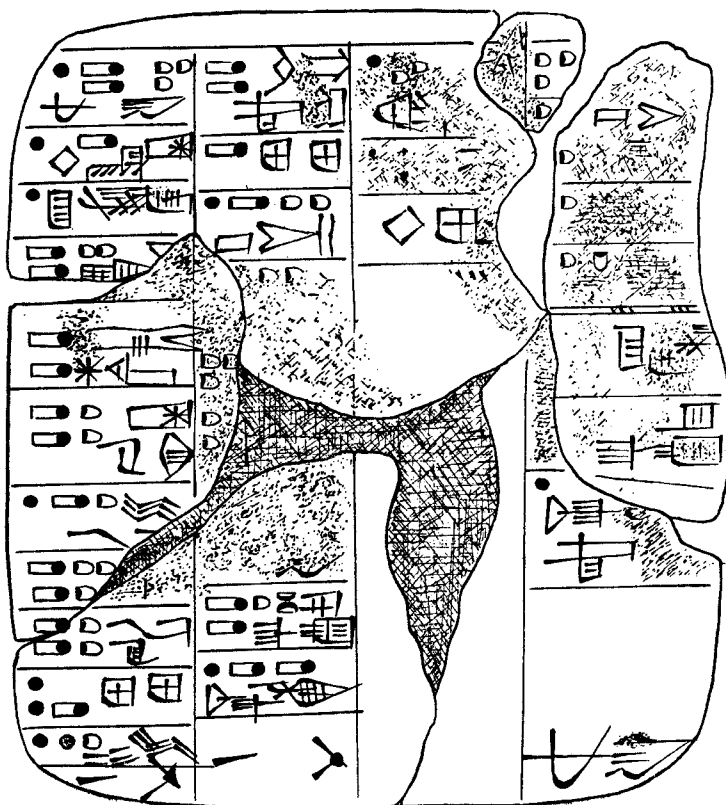
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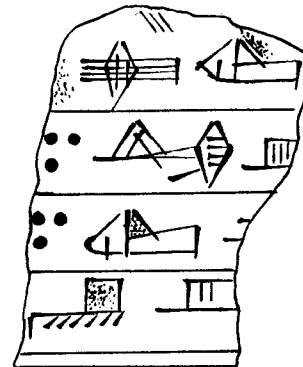
226  
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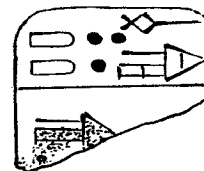
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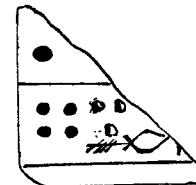
227



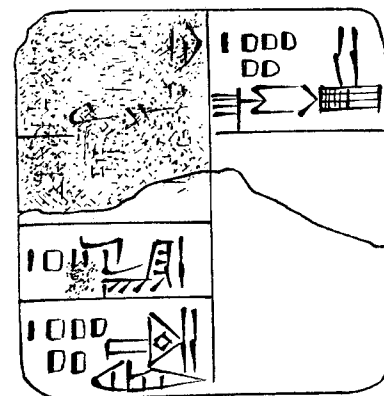
228  
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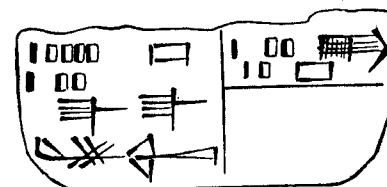
REV.



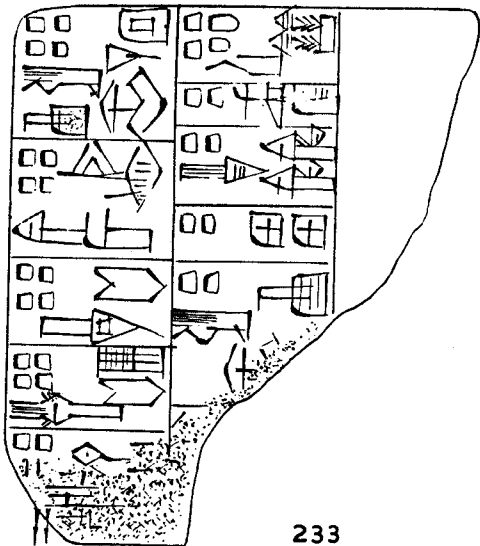
229



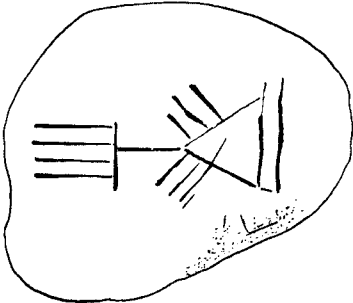
230



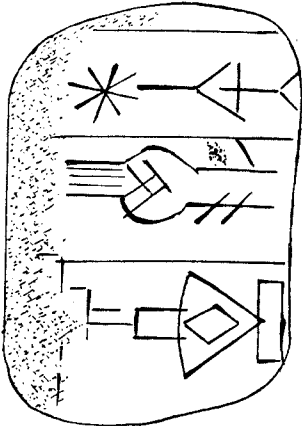
231



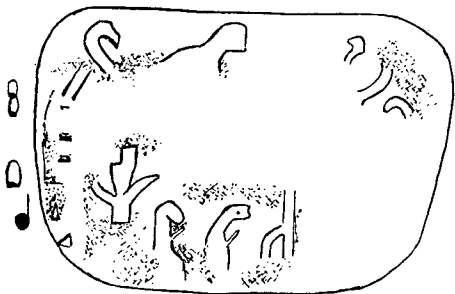
232



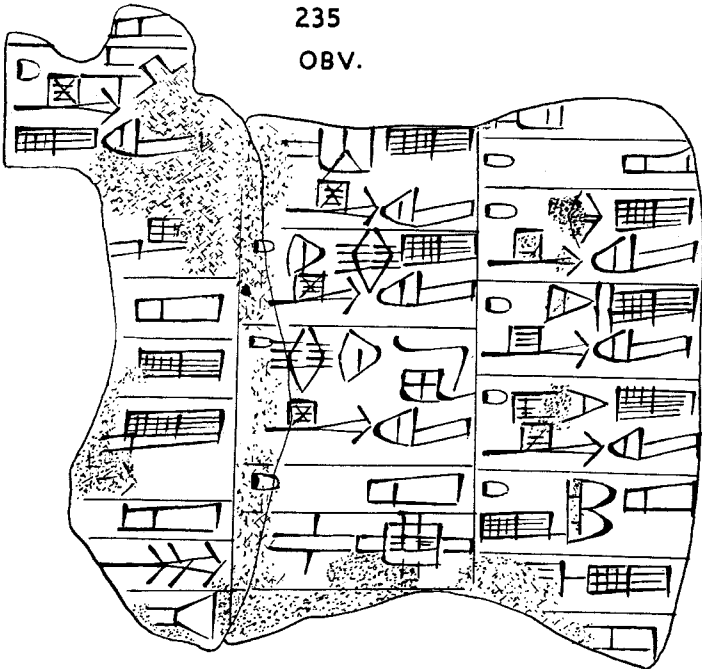
233  
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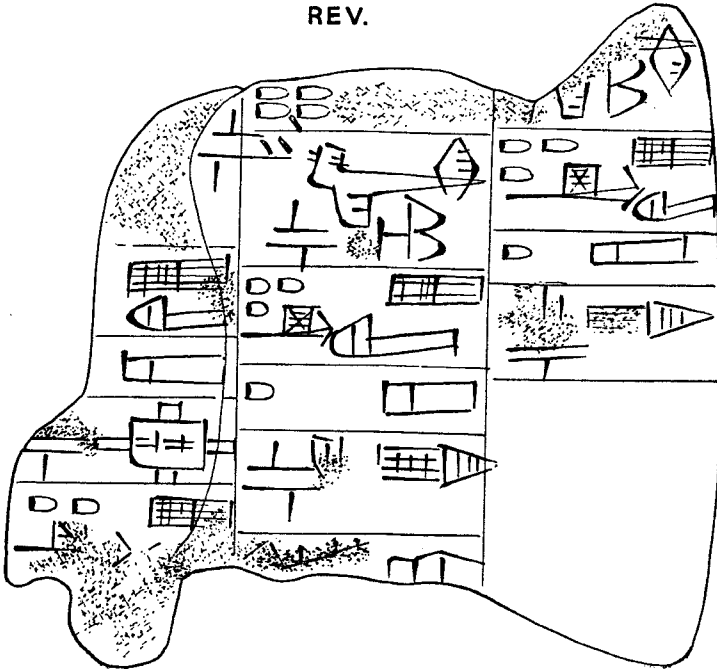
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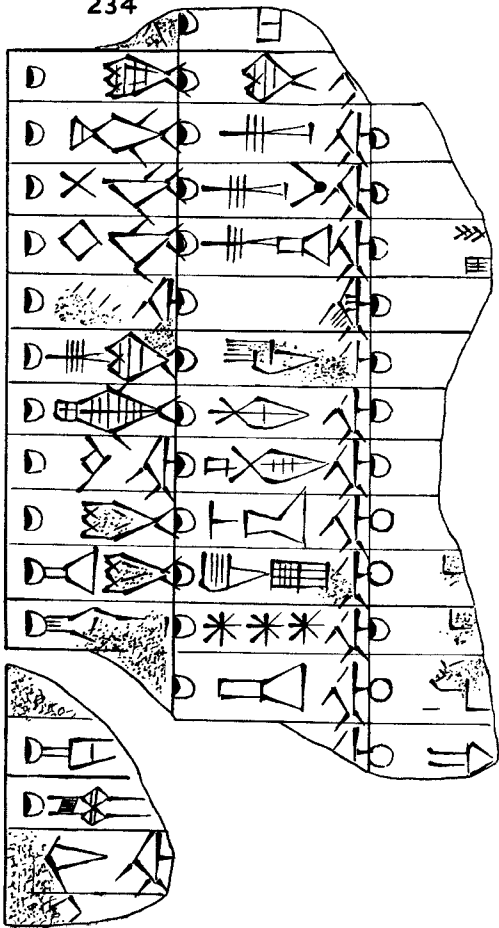
235  
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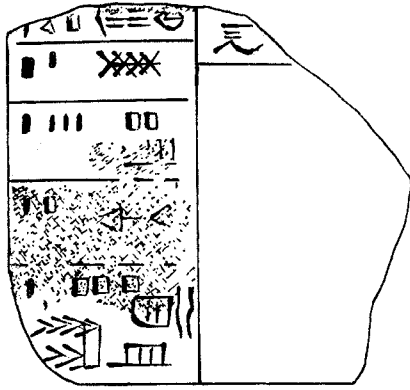
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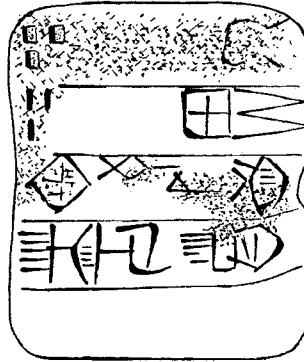
234



236



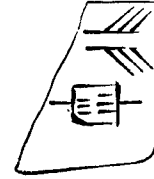
237



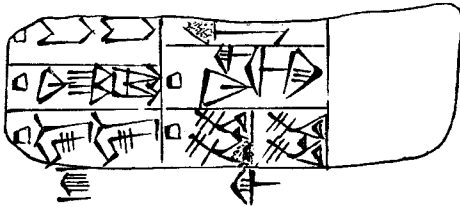
238



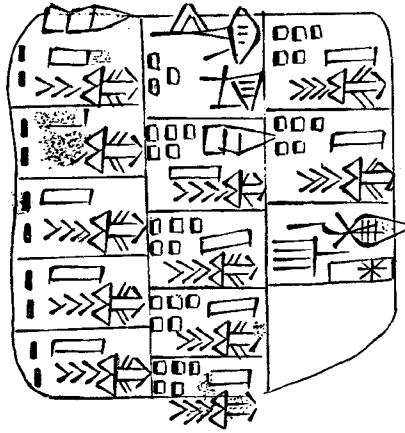
239



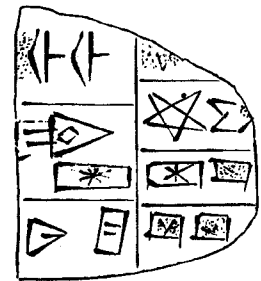
240



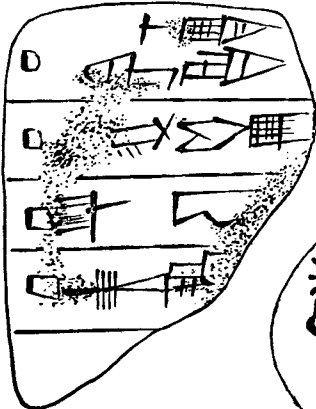
241



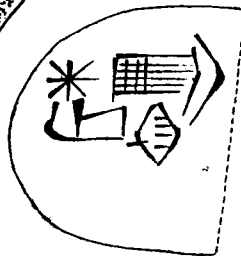
242



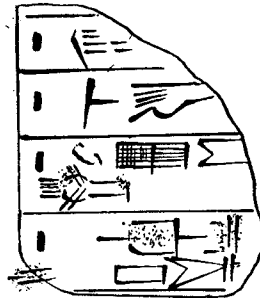
243



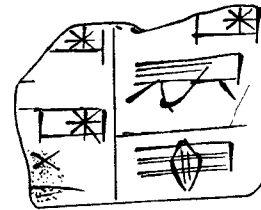
244



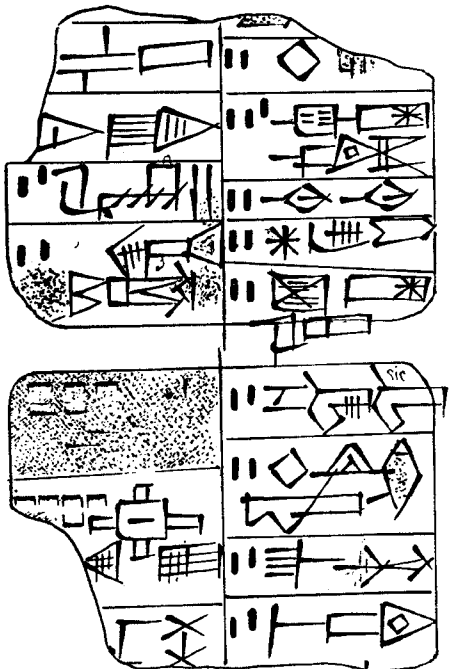
245



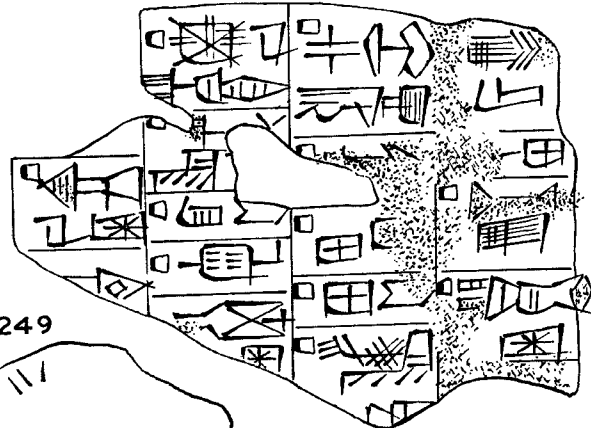
246



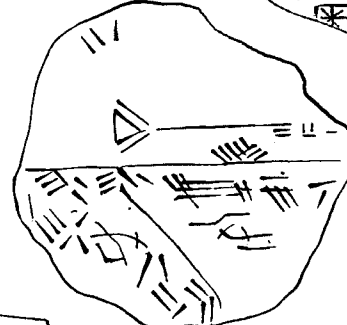
247



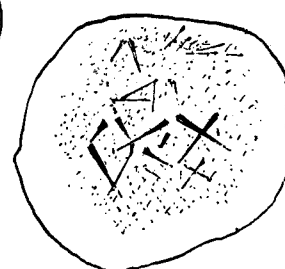
248



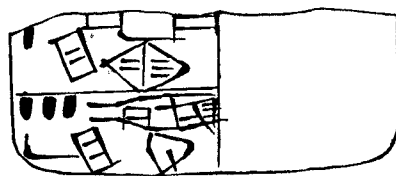
249

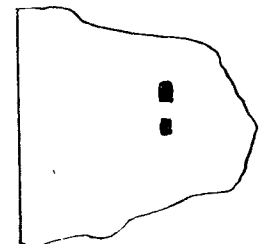
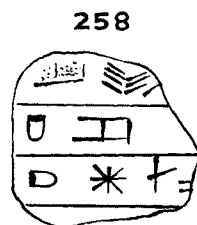
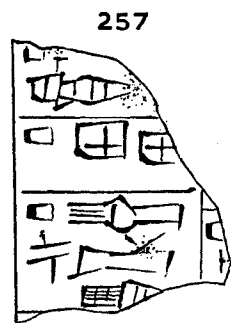
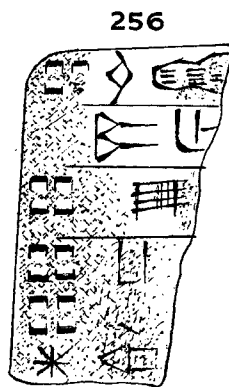
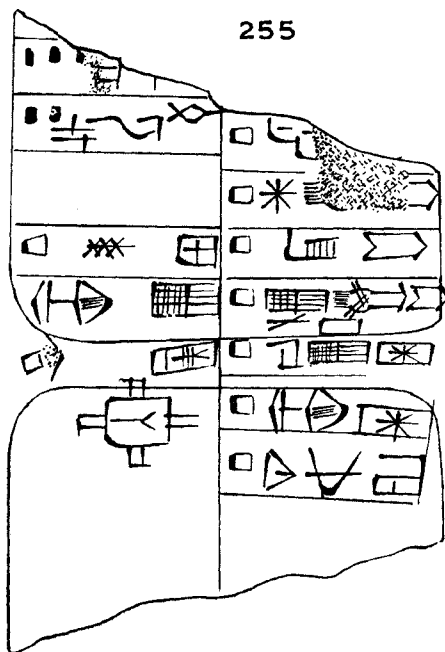
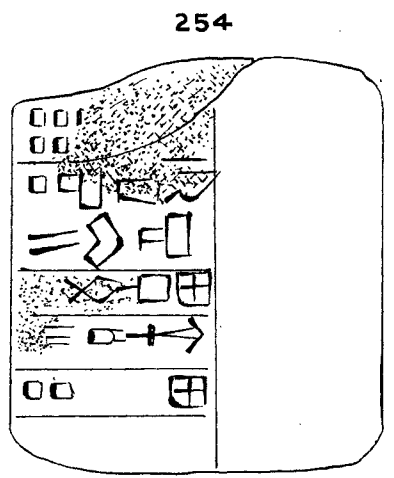
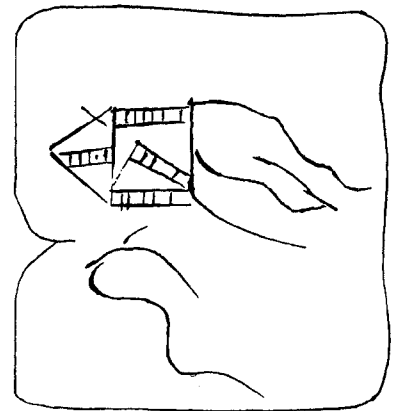
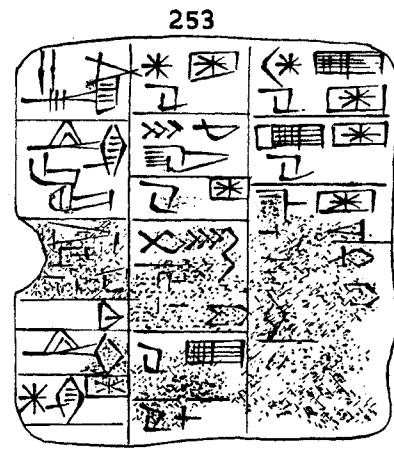
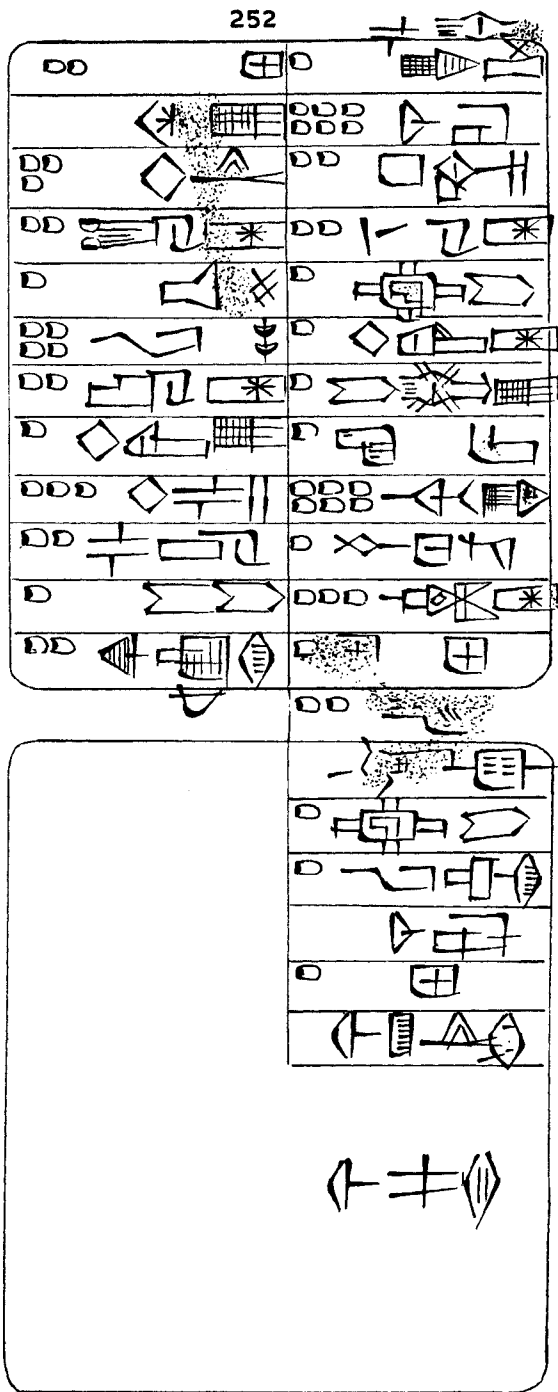


250



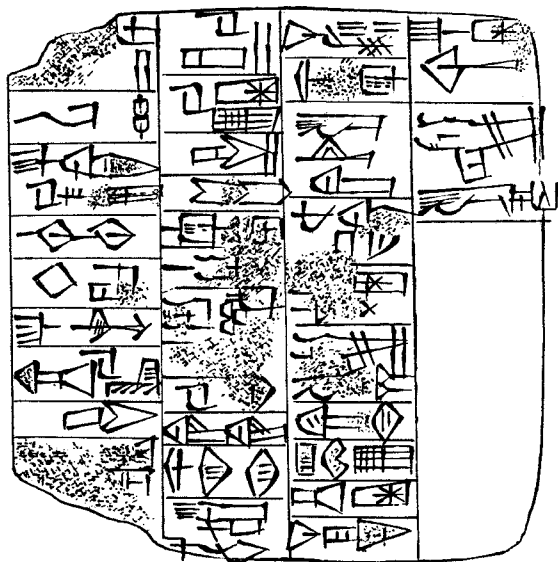
251



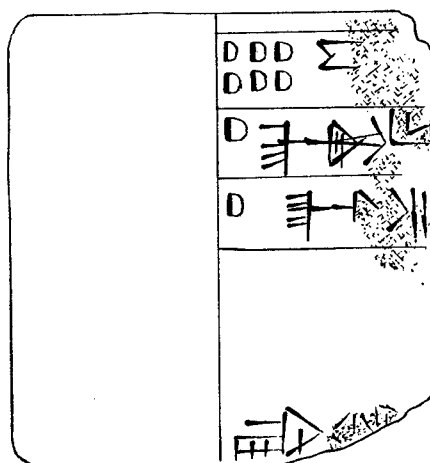
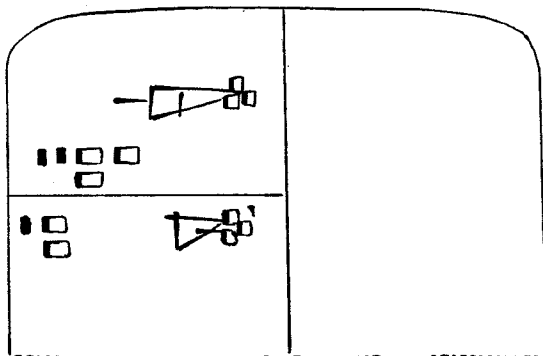
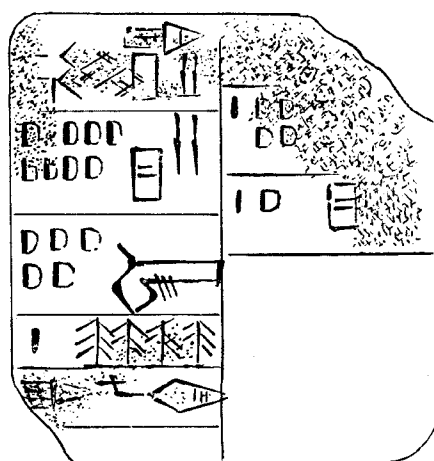




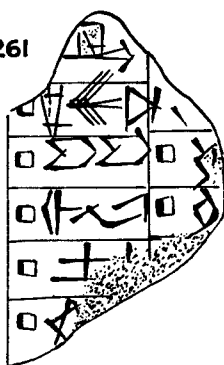
259



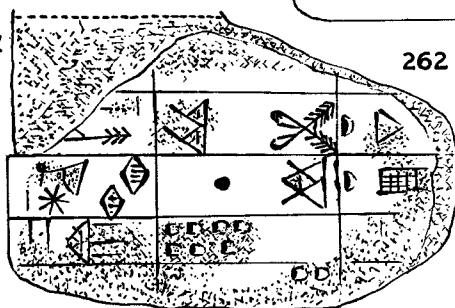
260



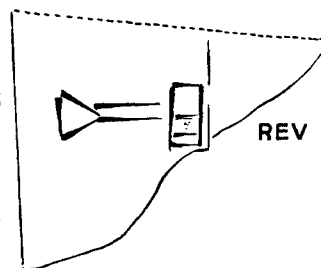
261



OBV.



262



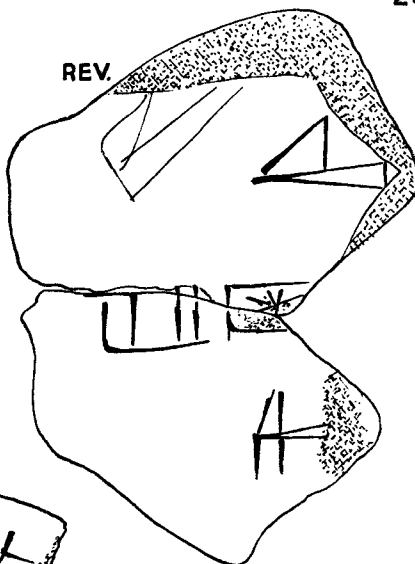
REV

263

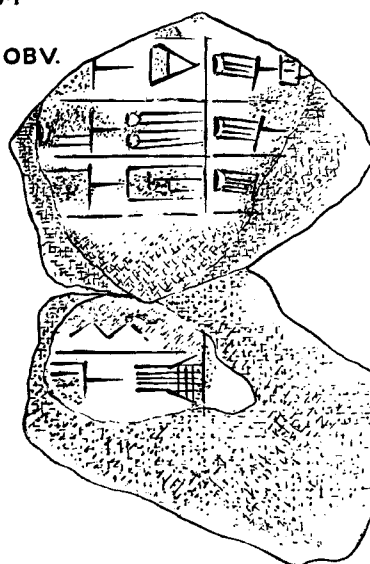


264

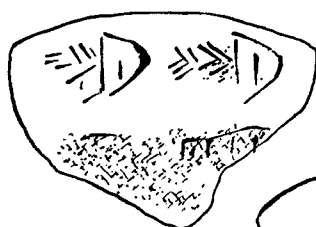
REV.



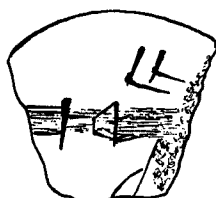
OBV.



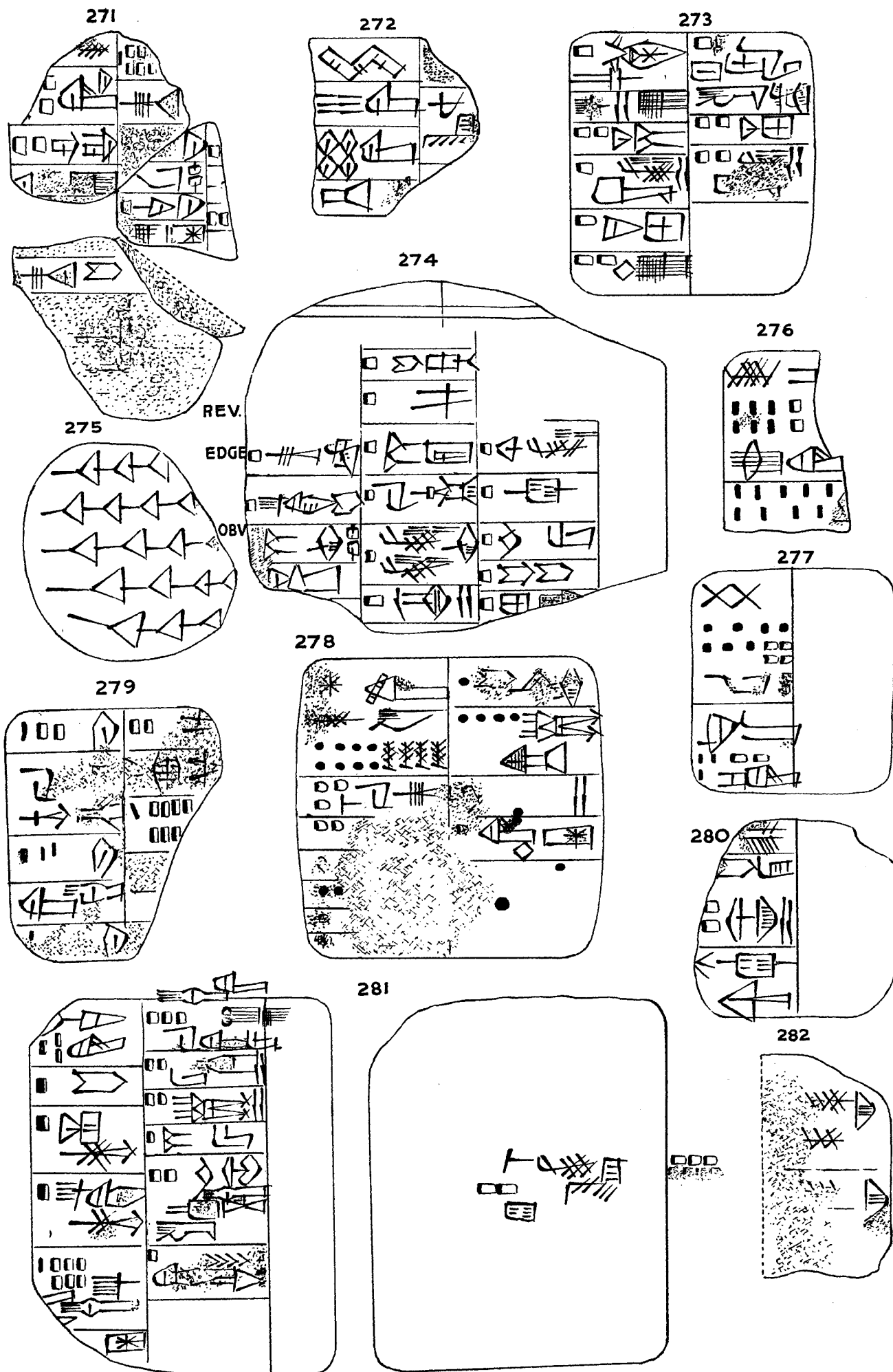
265

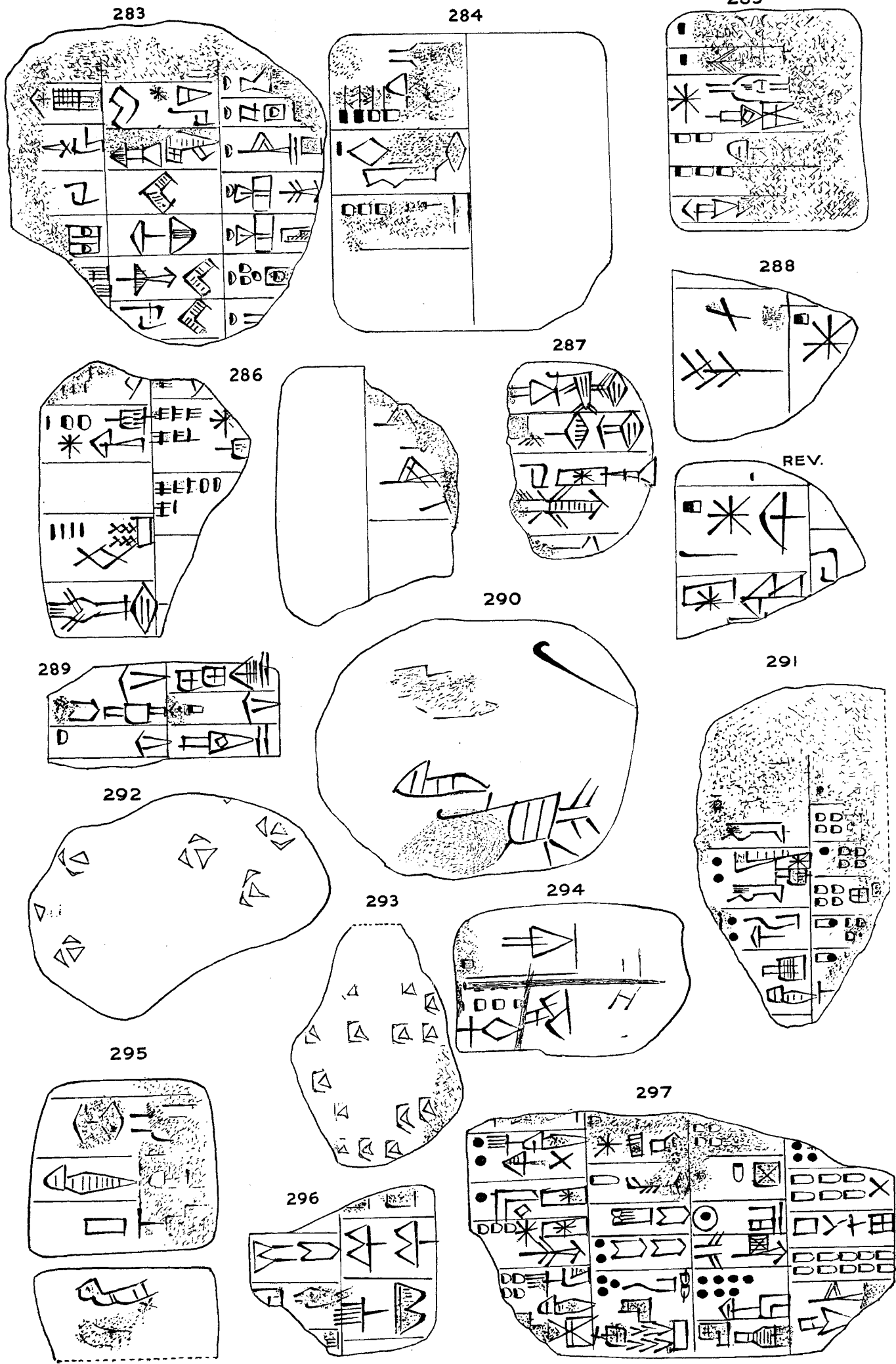


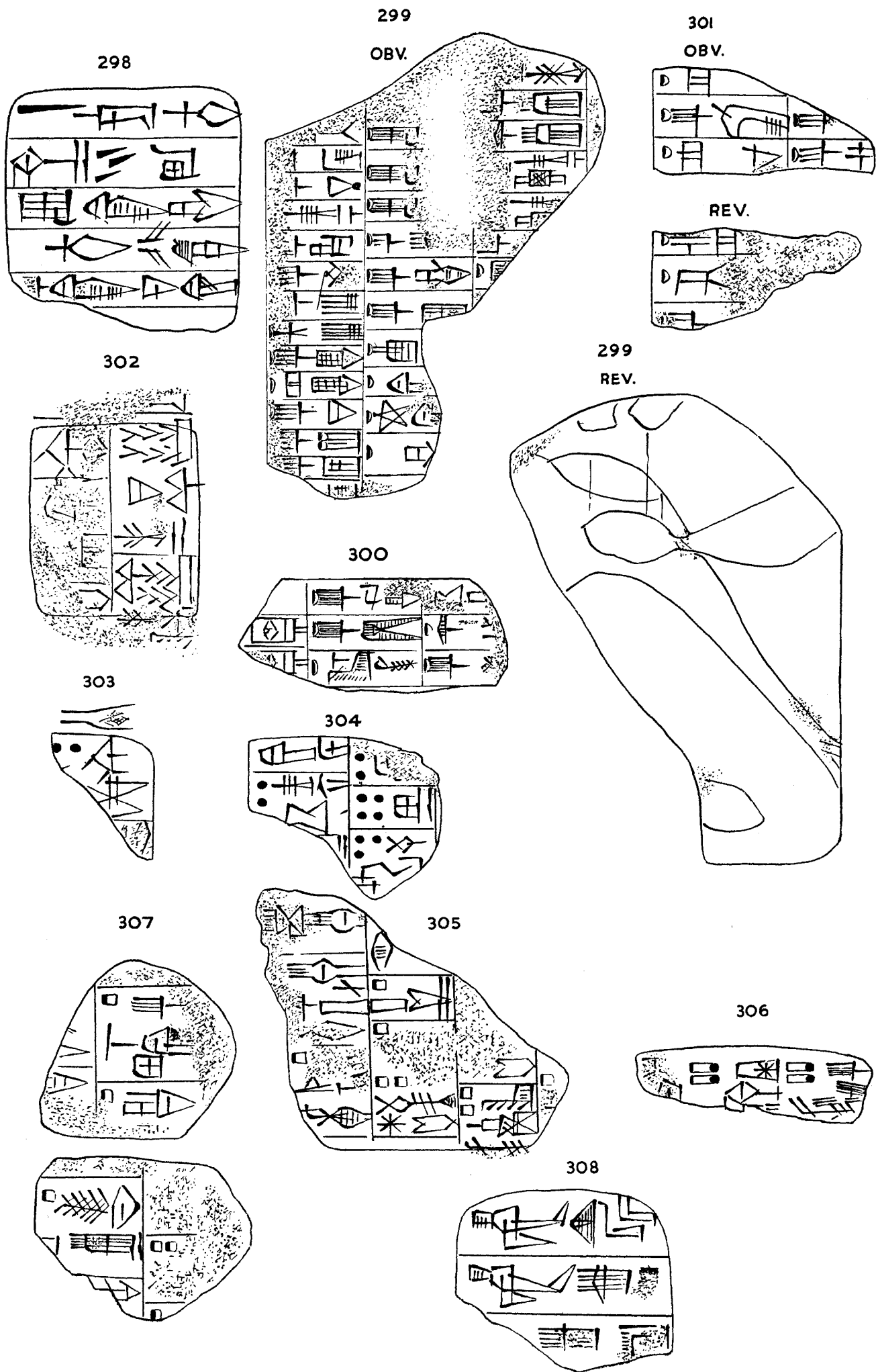
266



Nos. 267-270 cancelled.







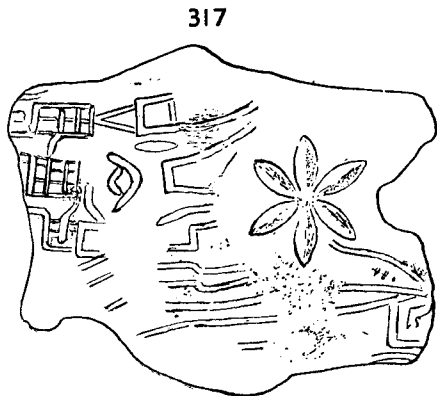
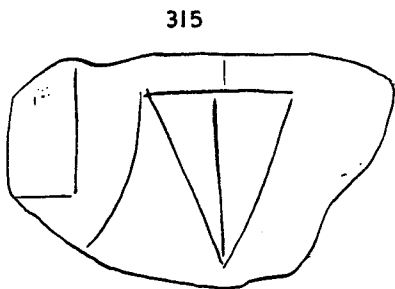
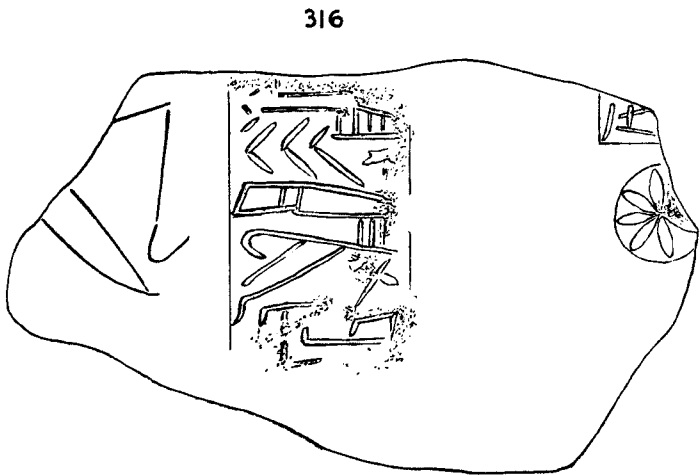
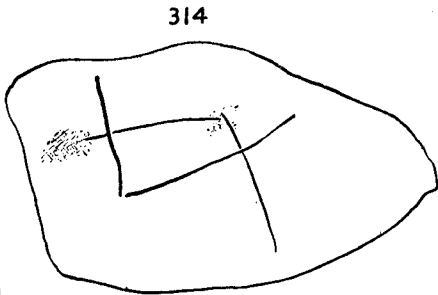
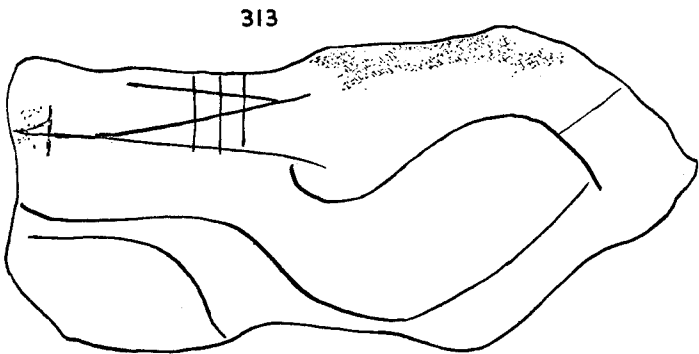
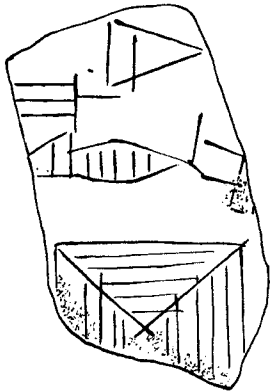
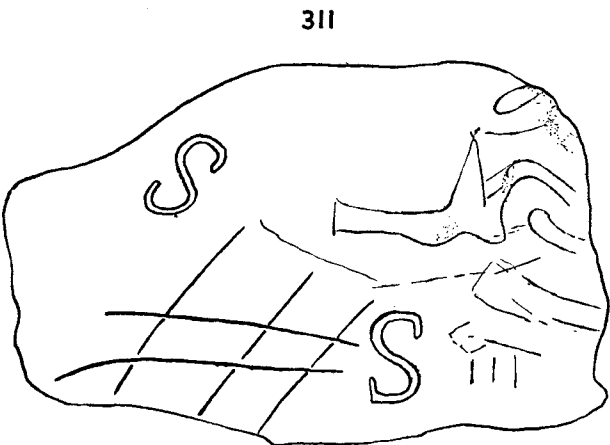
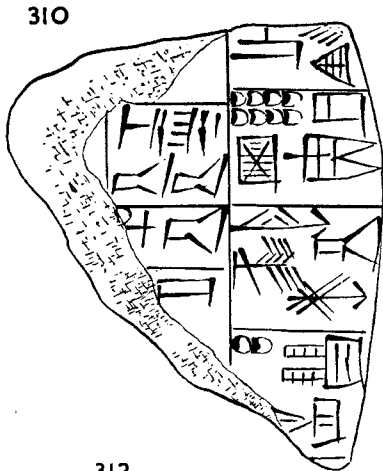
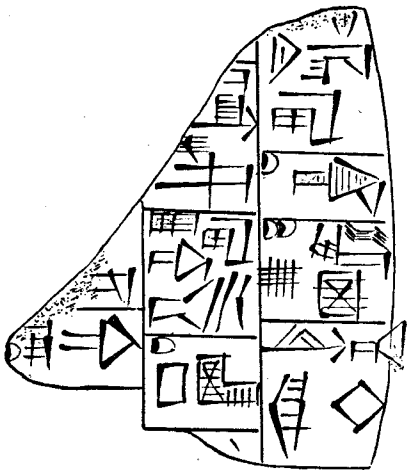
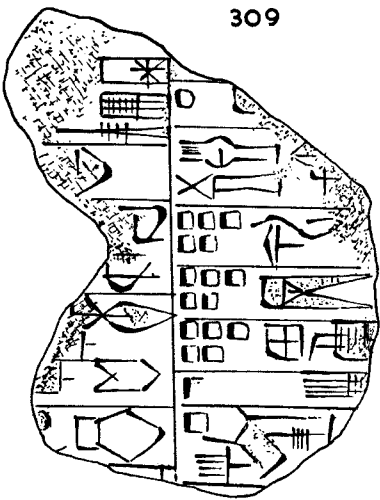
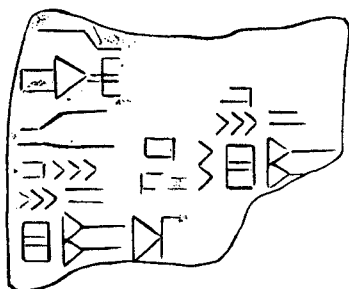
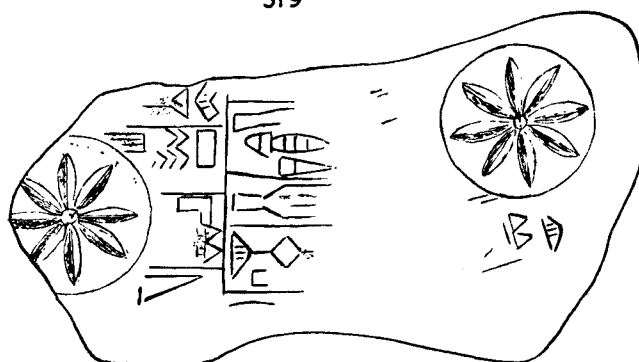


PLATE XXXVIII.

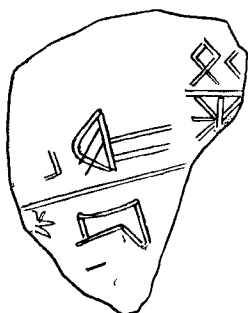
318



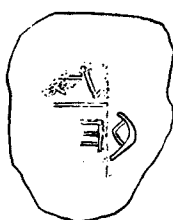
319



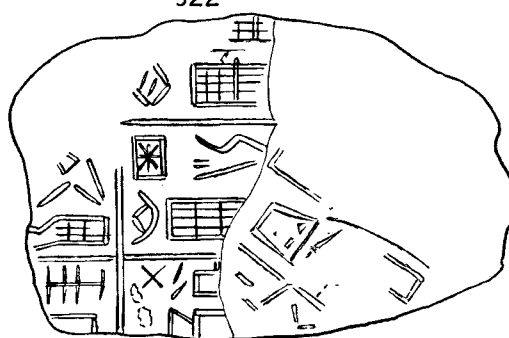
320



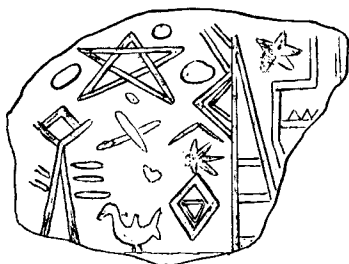
321



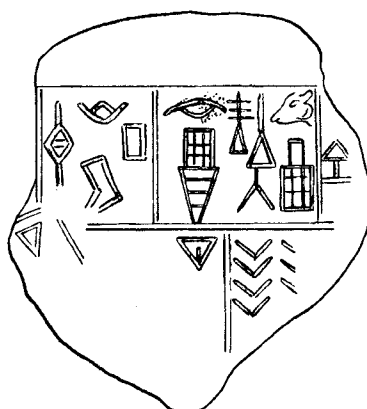
322



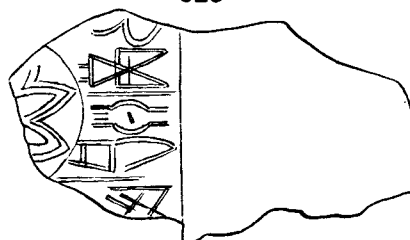
322



324



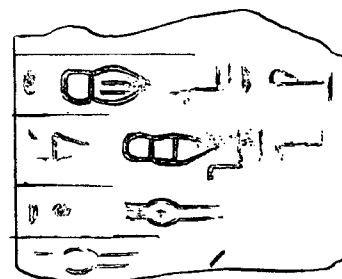
325



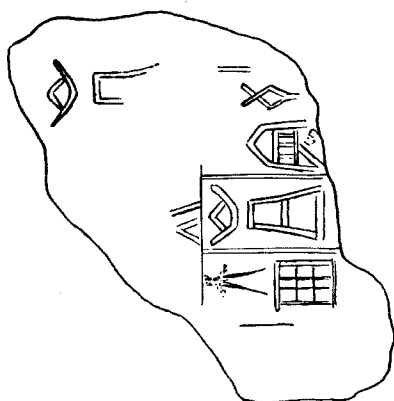
326



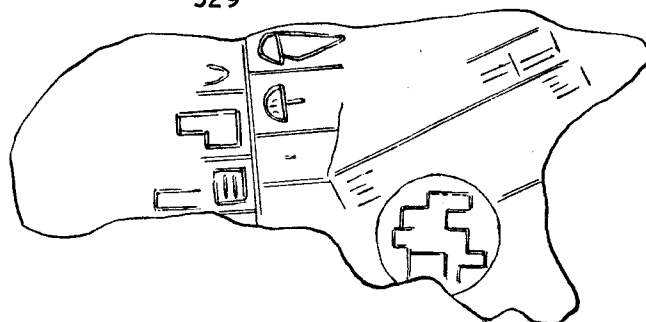
327



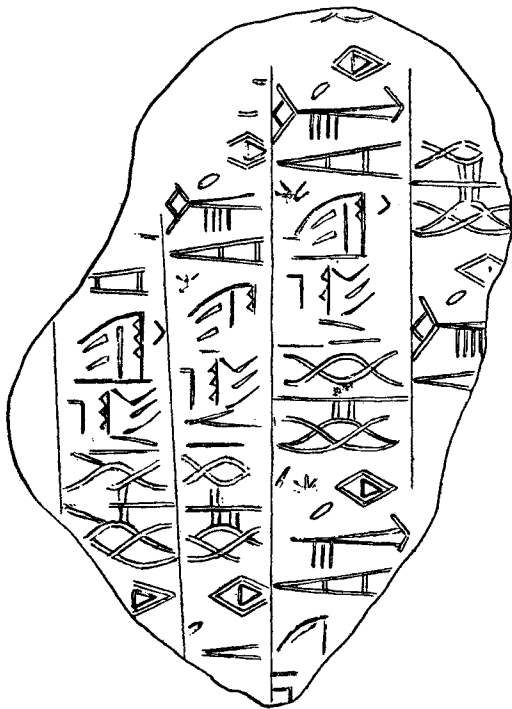
328



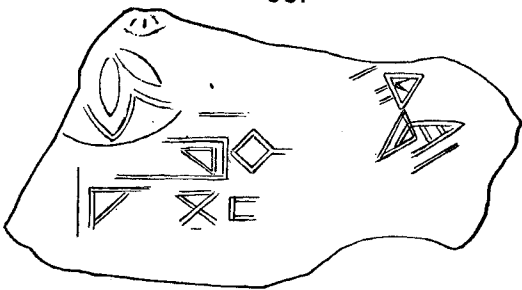
329



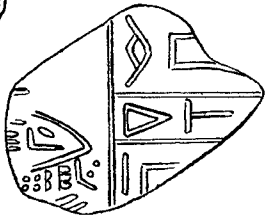
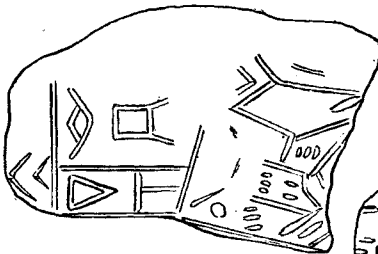
330



331



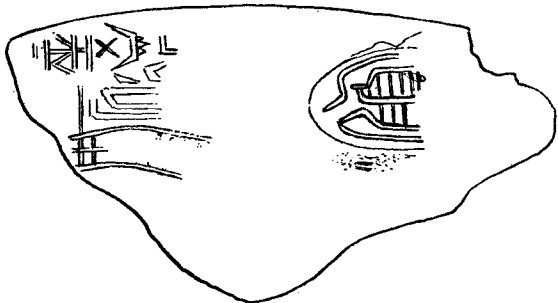
332



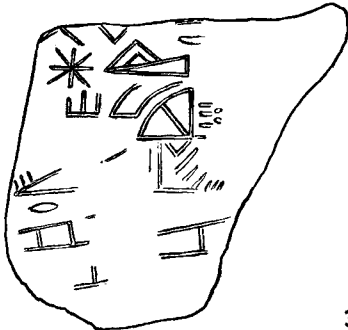
333



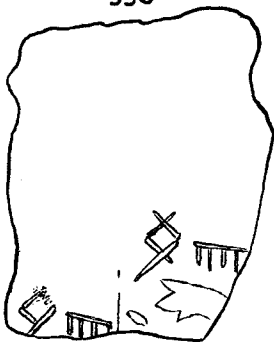
334



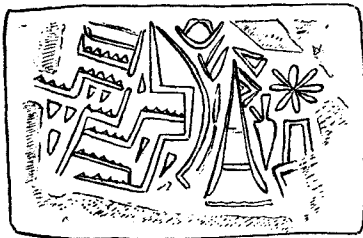
335



336



337



338

REV

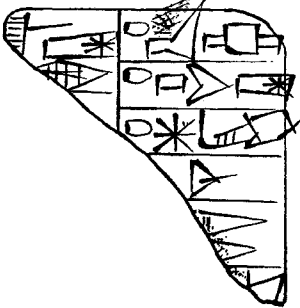
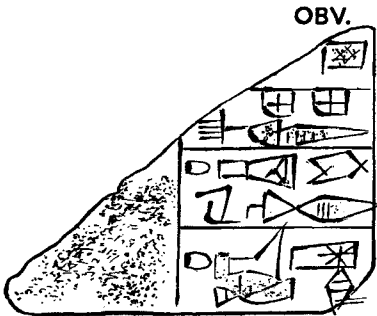
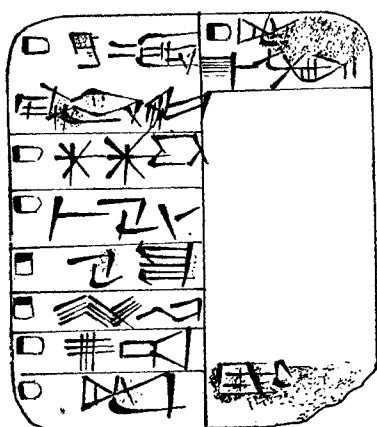
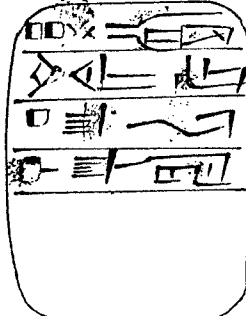


PLATE XL.

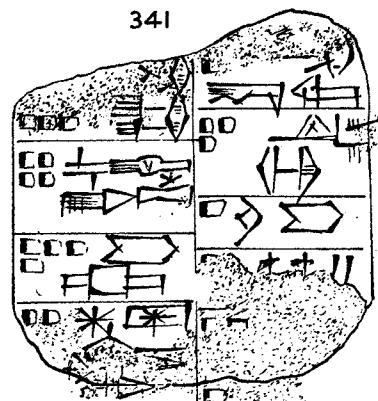
339



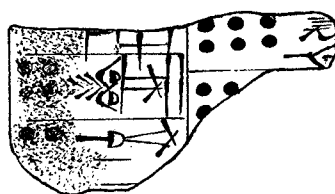
340



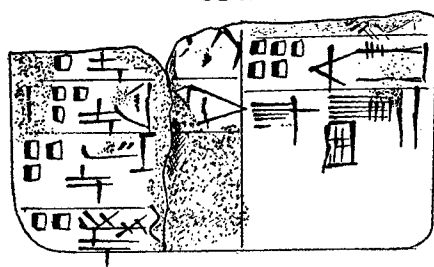
341



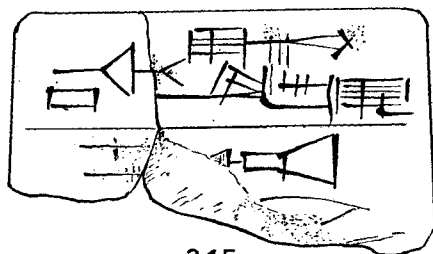
342



343  
OBV.

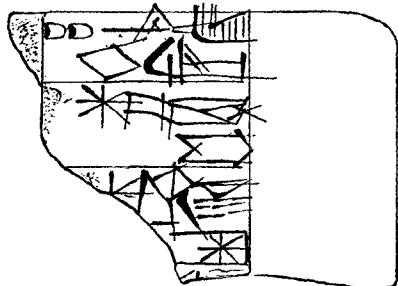


REV.

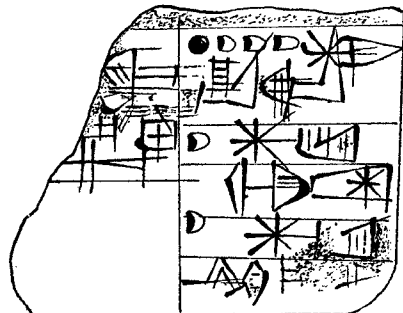


345

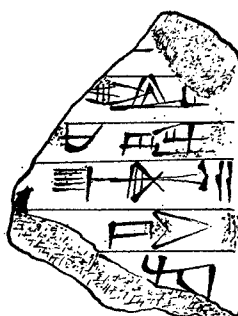
OBV.



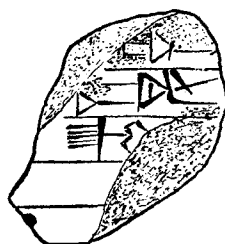
REV.



344



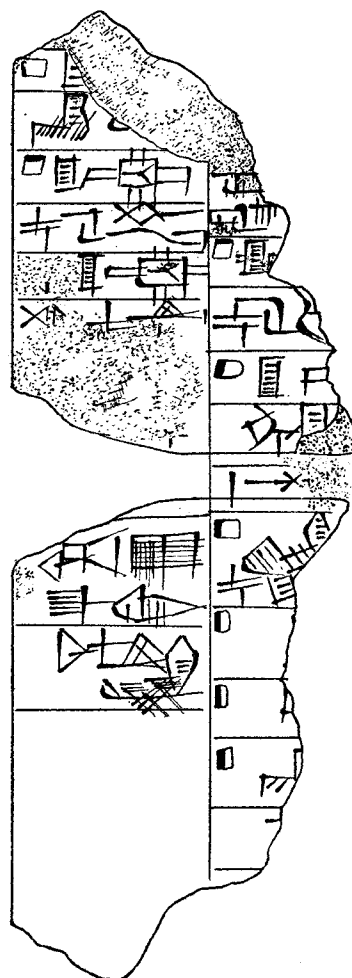
346



347

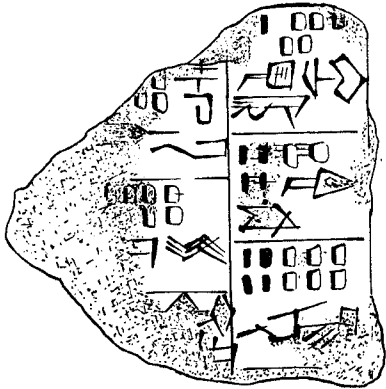


348

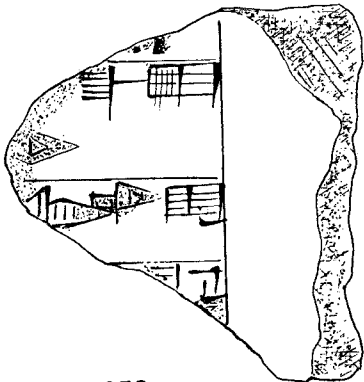




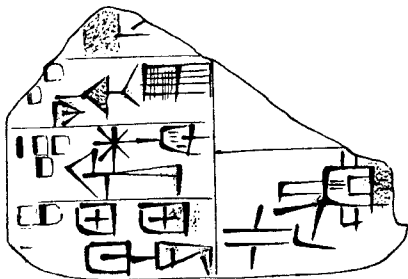
349  
OBV.



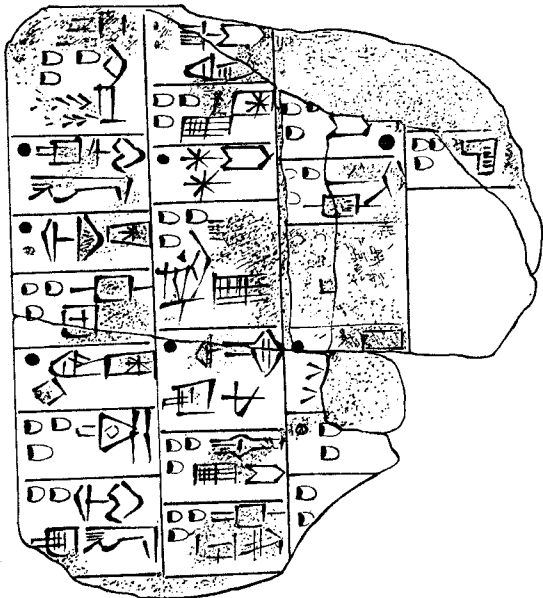
REV.



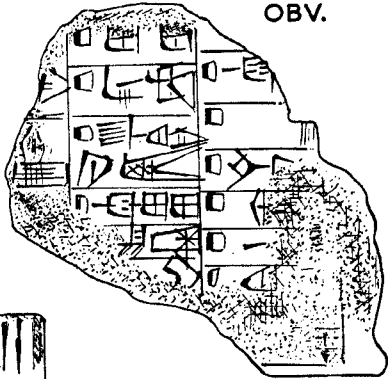
352



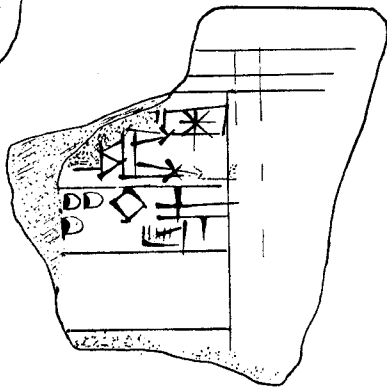
354



350  
OBV.



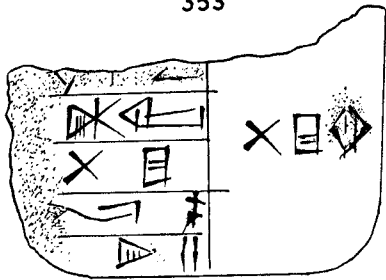
REV.



351



353



355

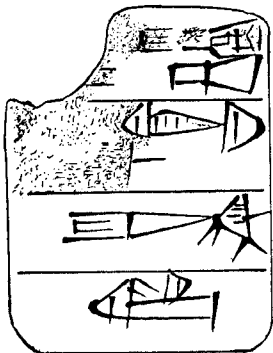
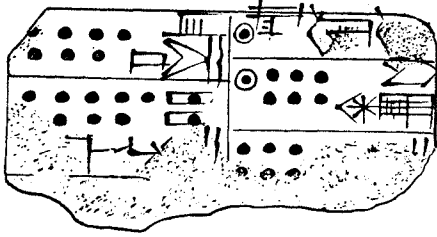
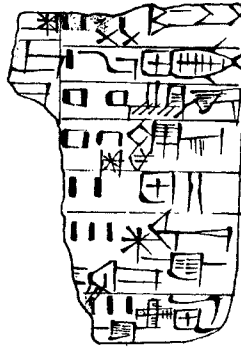


PLATE XLII.

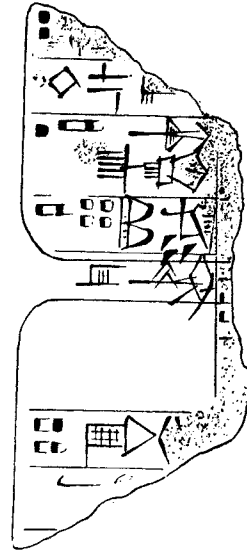
356  
OBV.



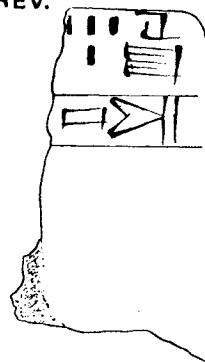
357  
OBV.



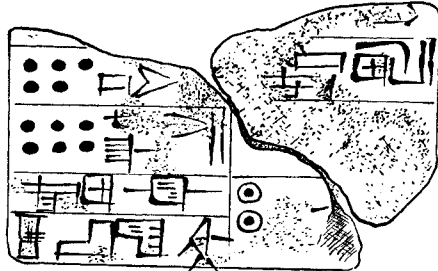
358



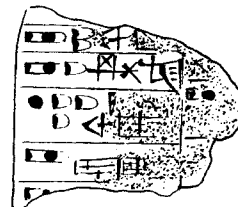
REV.



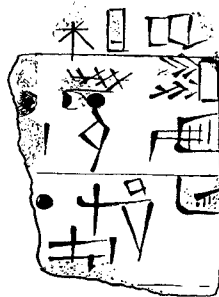
REV.



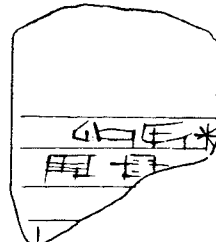
360



359

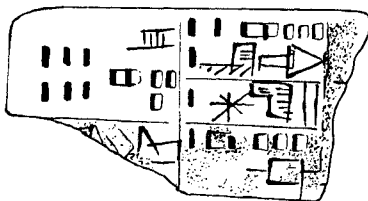


363  
OBV.

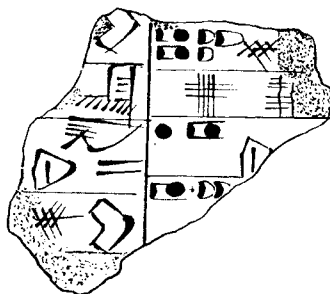


361

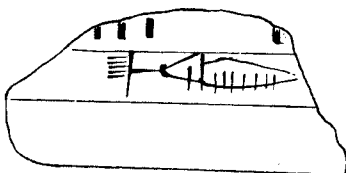
OBV.



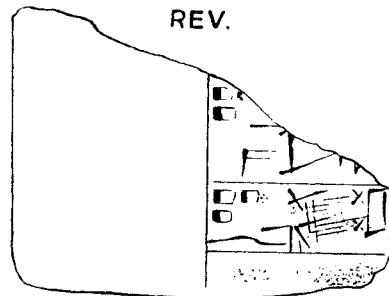
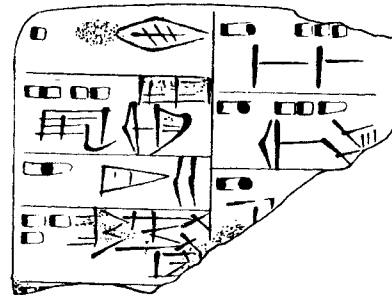
362



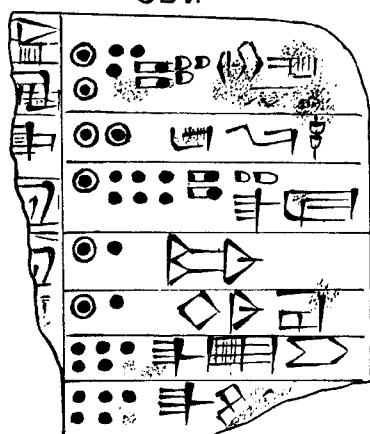
REV.



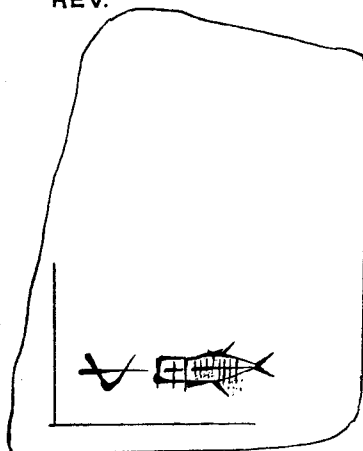
REV.



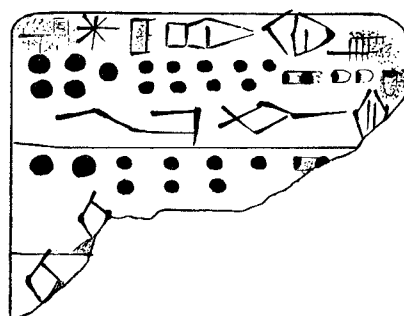
364  
OBV.



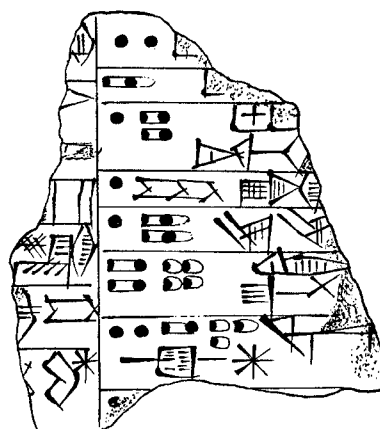
REV.



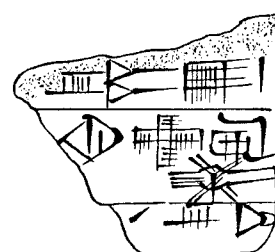
365



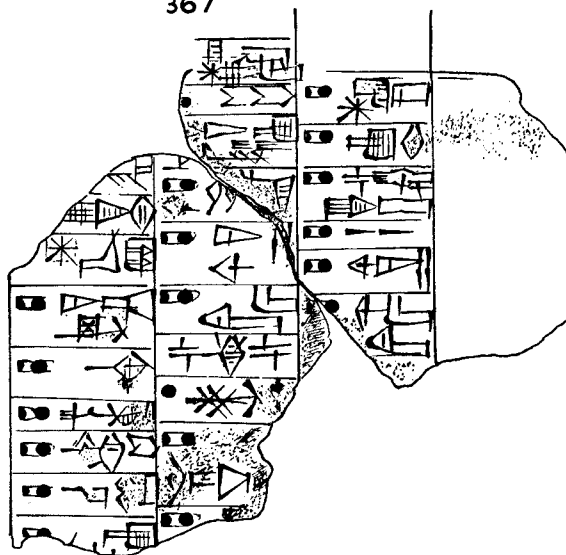
366



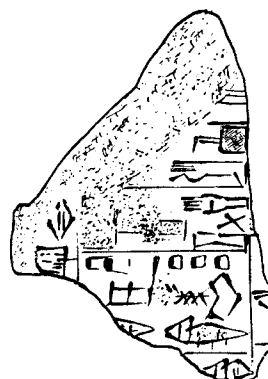
368



367



370



369

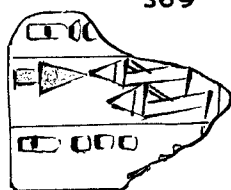
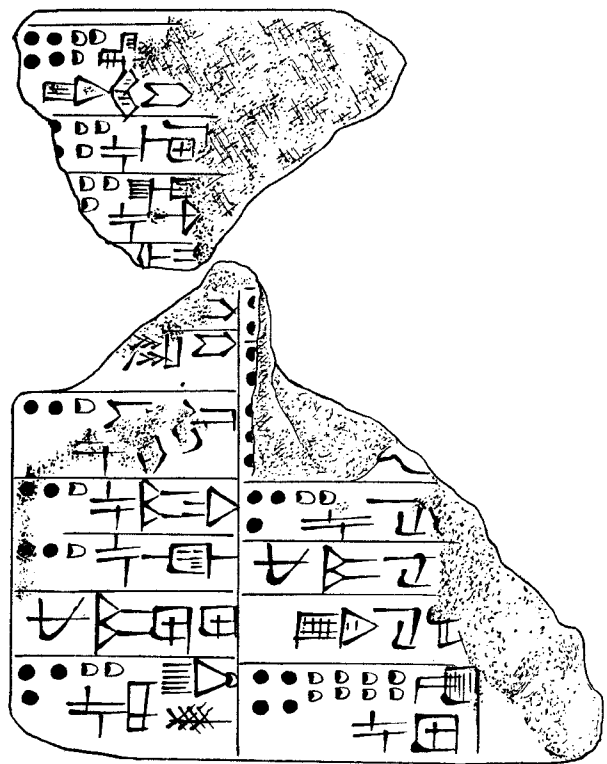
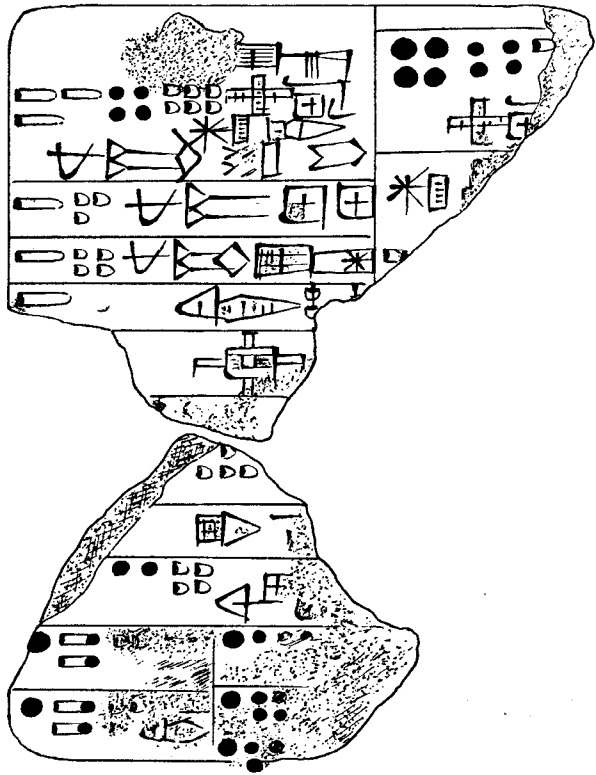


PLATE XLIV.

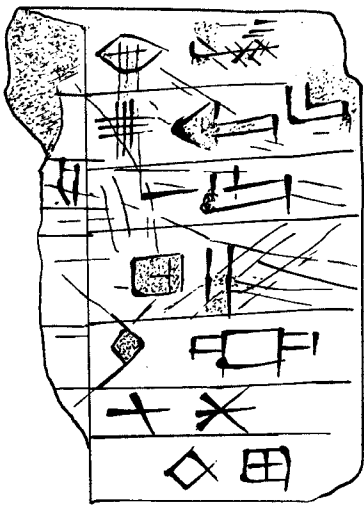
371  
OBV.



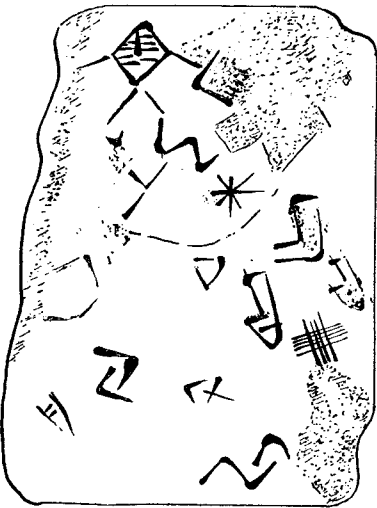
REV.



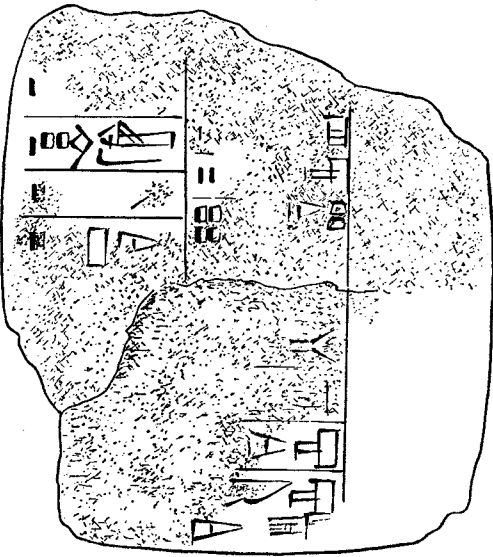
372  
OBV.



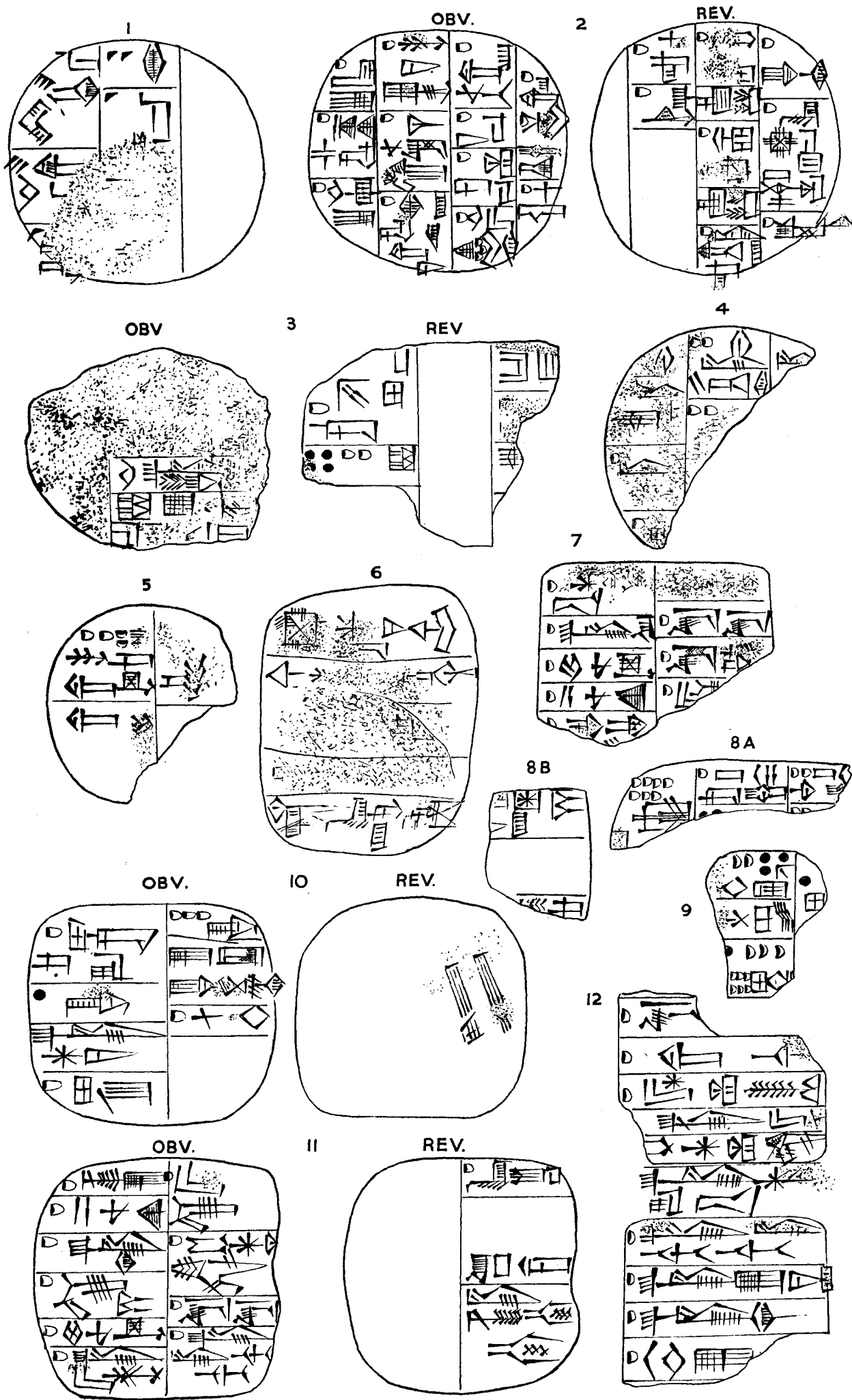
REV.



373



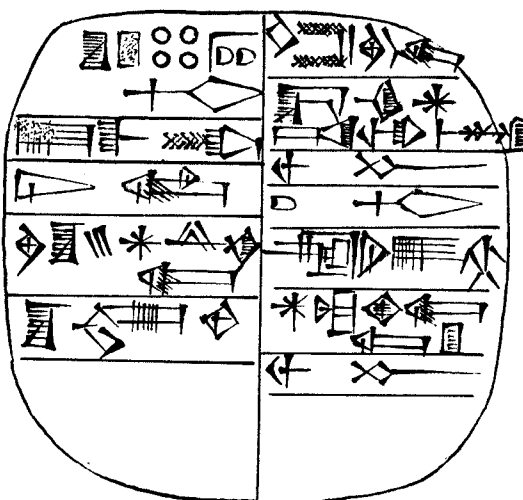
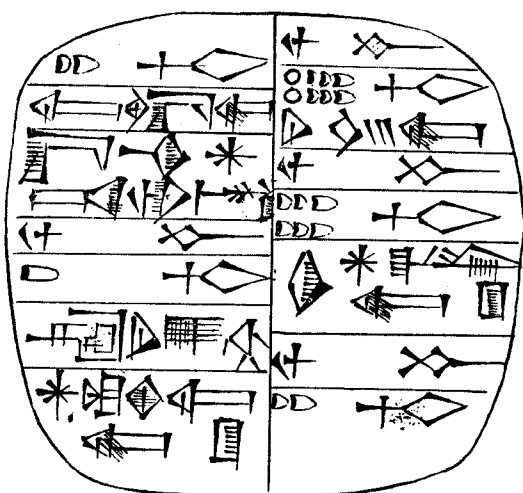
SUPPLEMENT.



OBV.

13

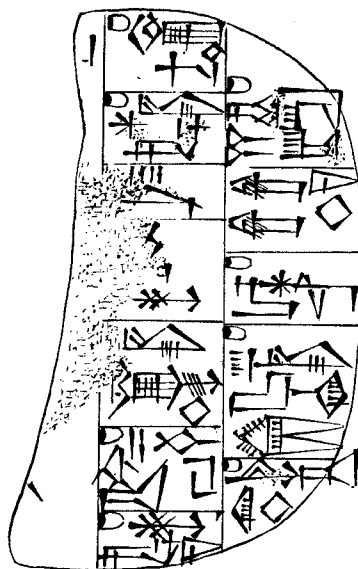
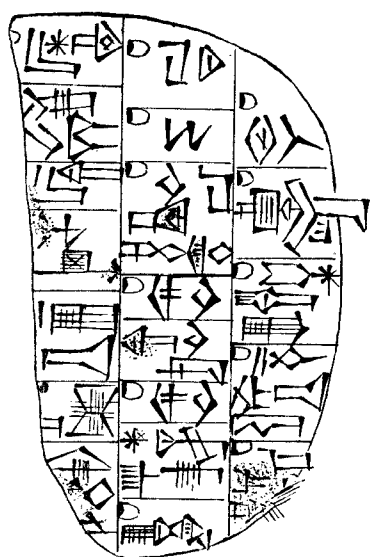
REV.



OBV.

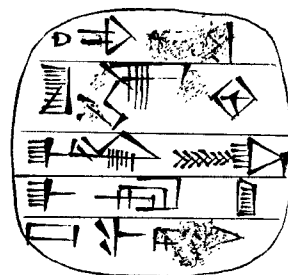
14

REV.

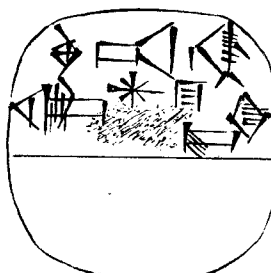


15

OBV.



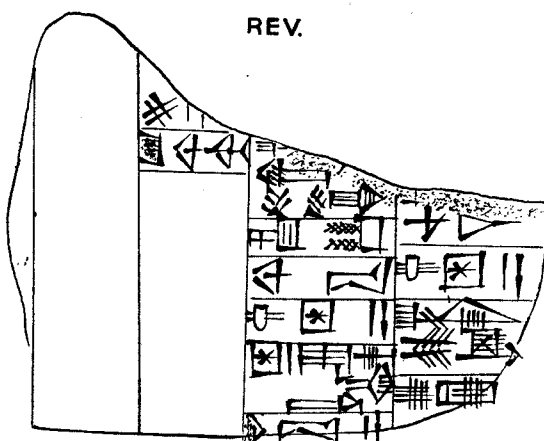
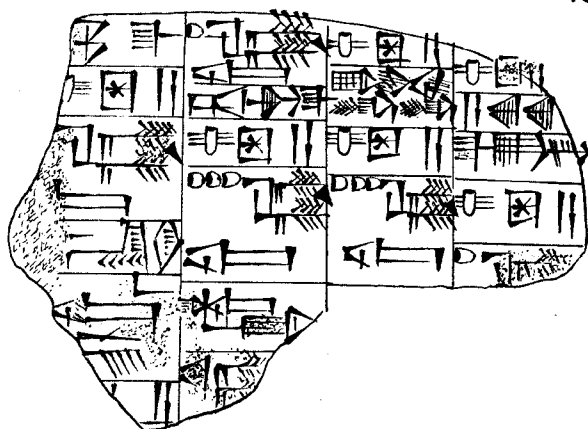
REV.



OBV.

16

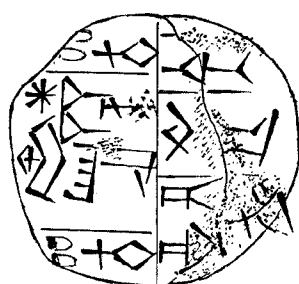
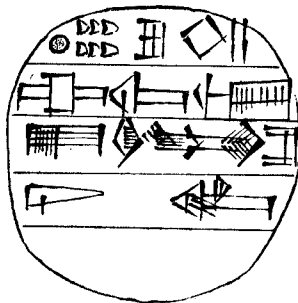
REV.



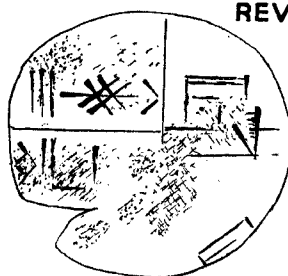
17

OBV.

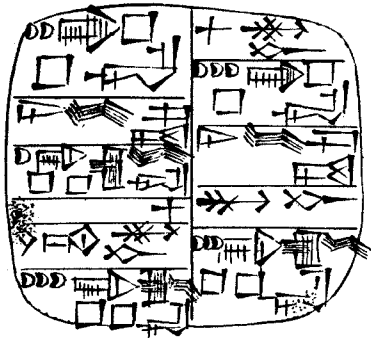
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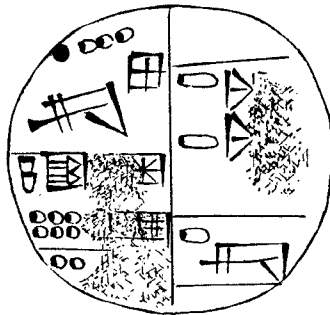
18



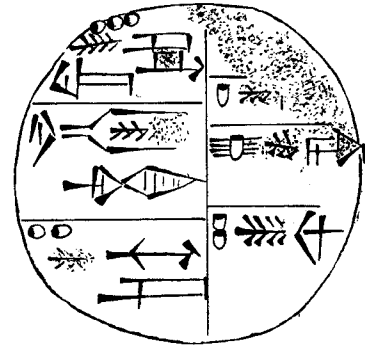
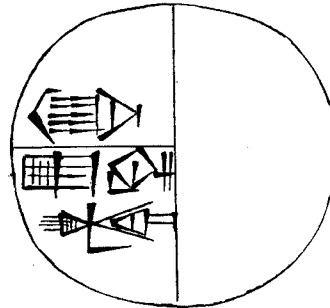
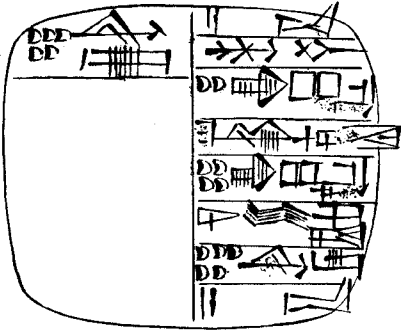
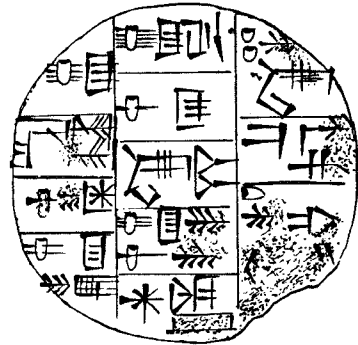
19



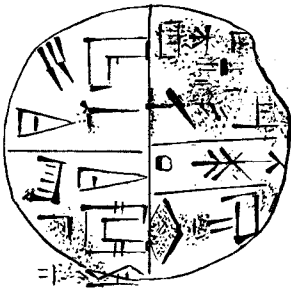
20



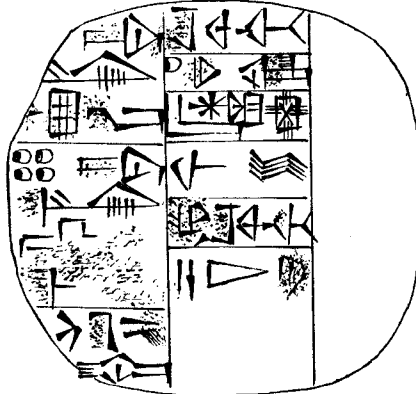
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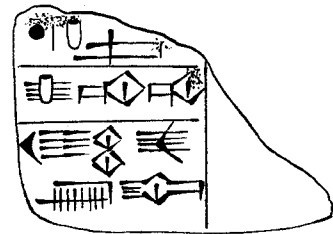
22



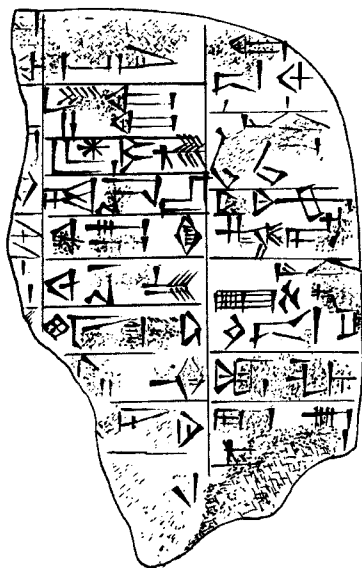
23



24



25



26

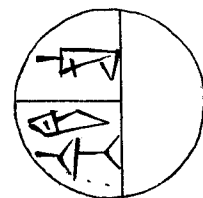
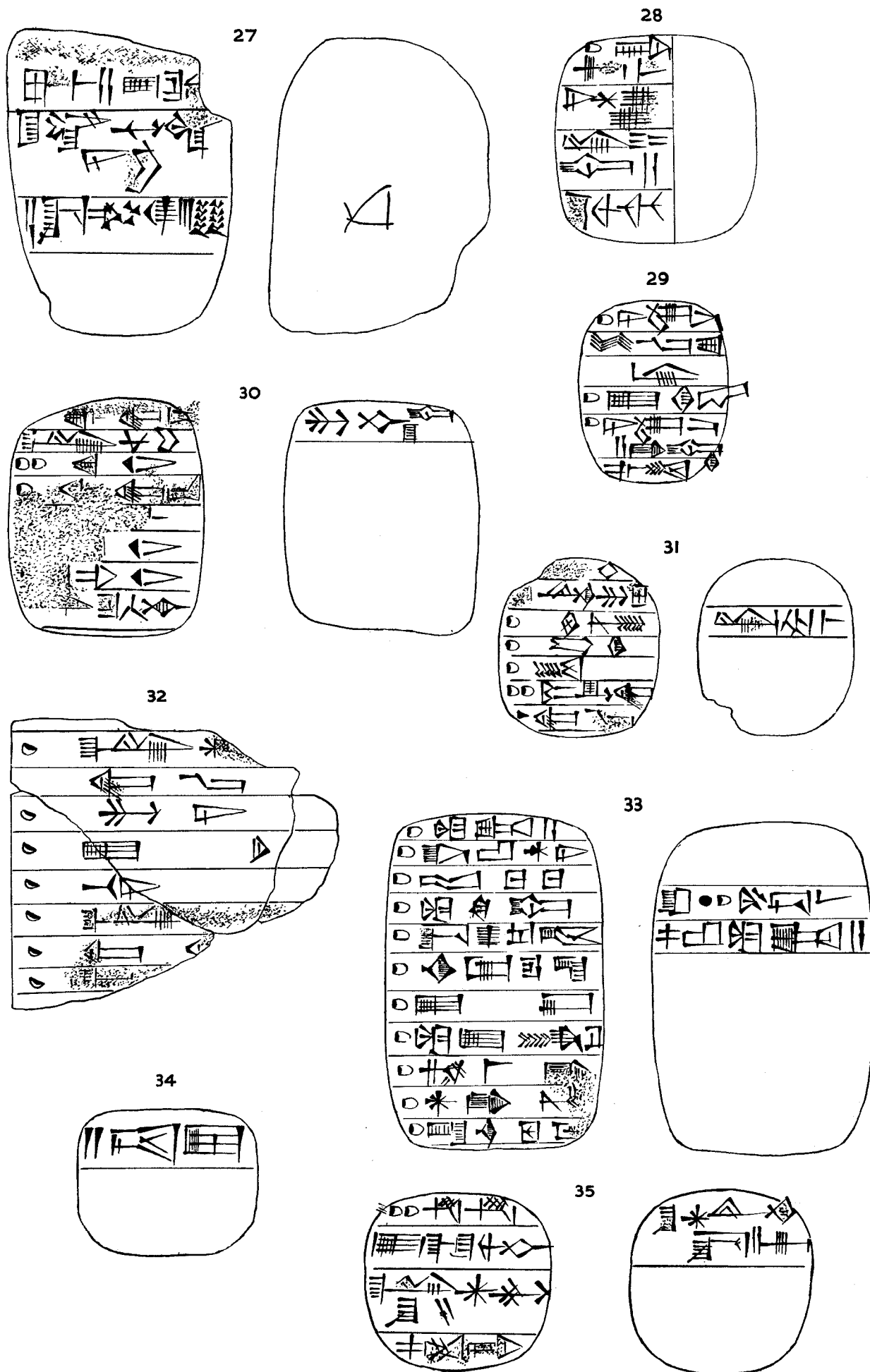
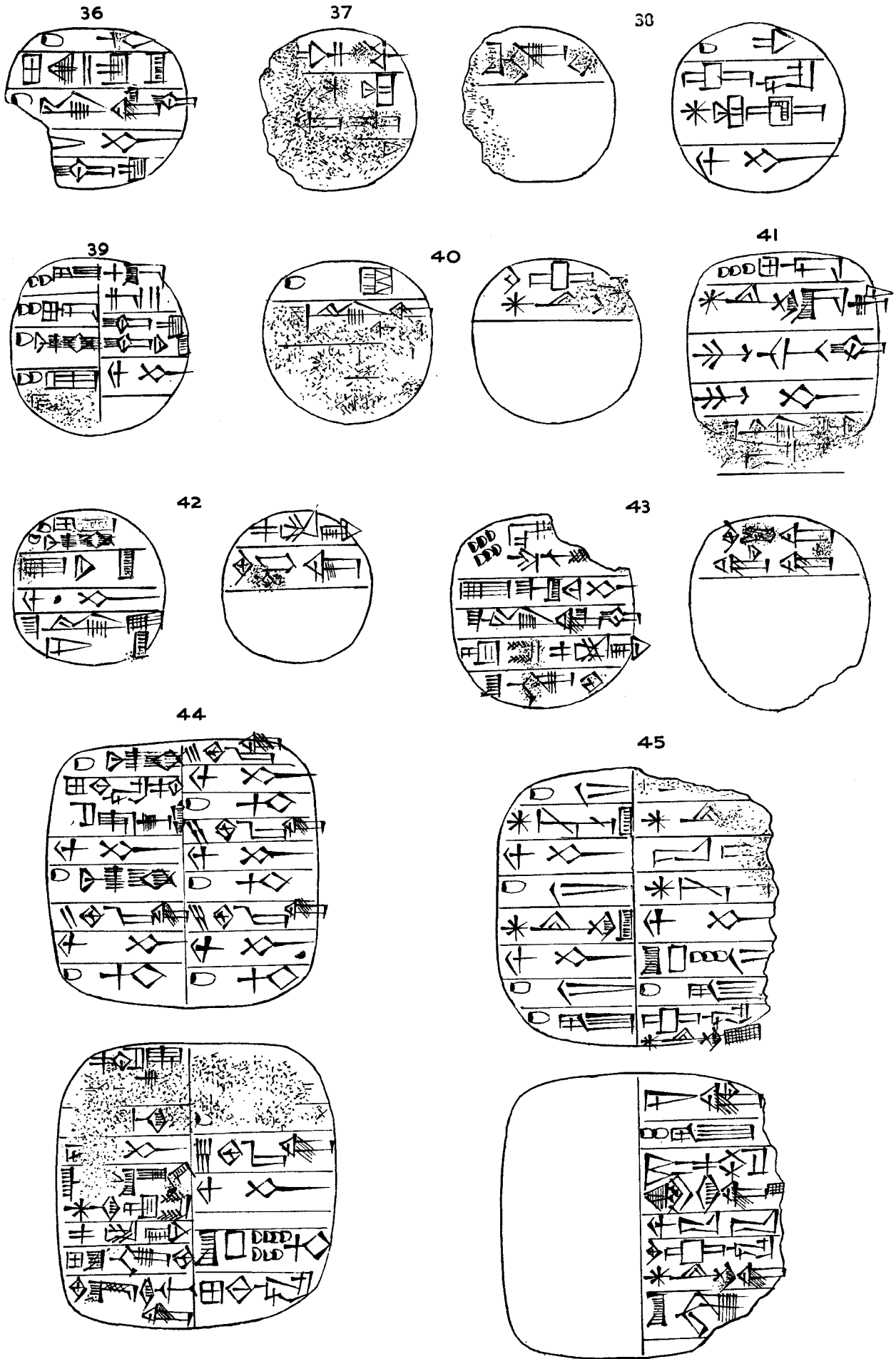


PLATE XLVIII.



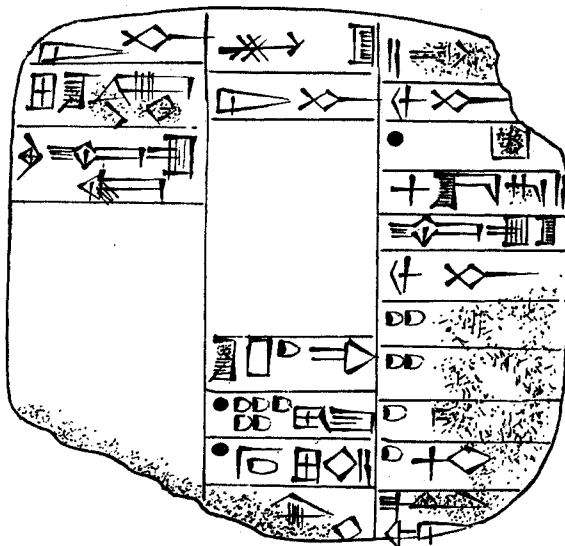
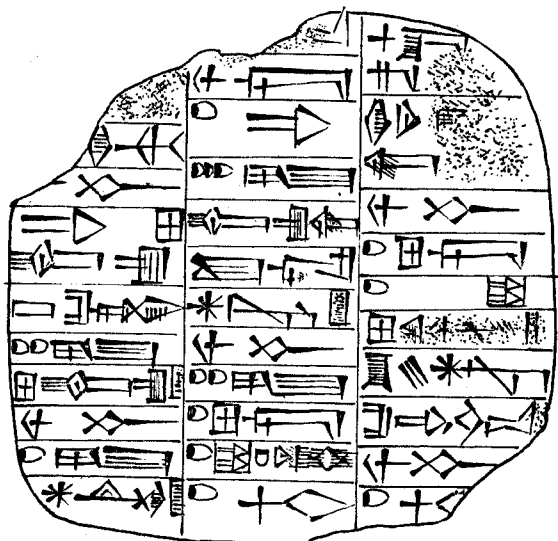




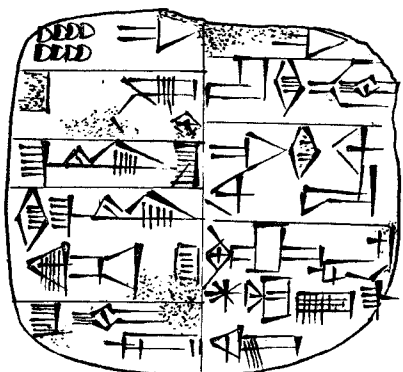
OBV.

46

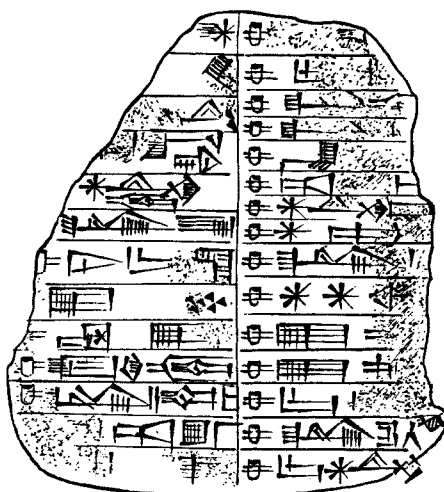
REV.



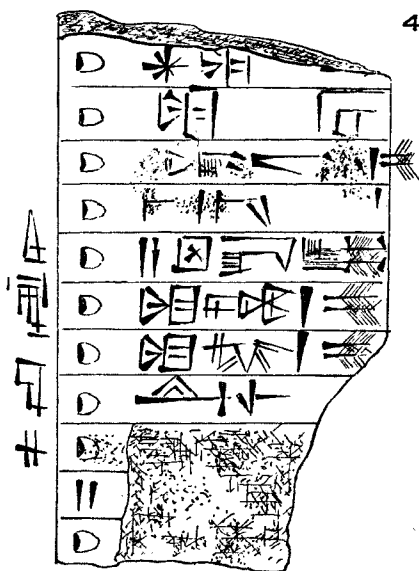
47



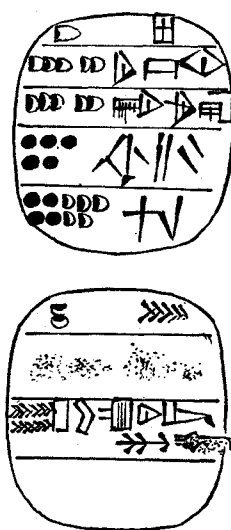
48



49



50



51



52

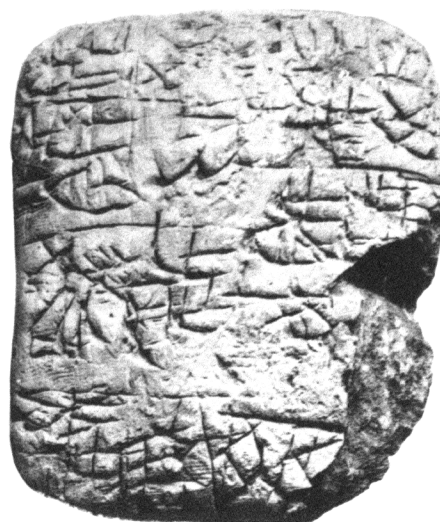




1. (U. 8829)



233. (U. 13088)



63. (U. 12533)



37. (U. 12506)



232. (U. 13004)



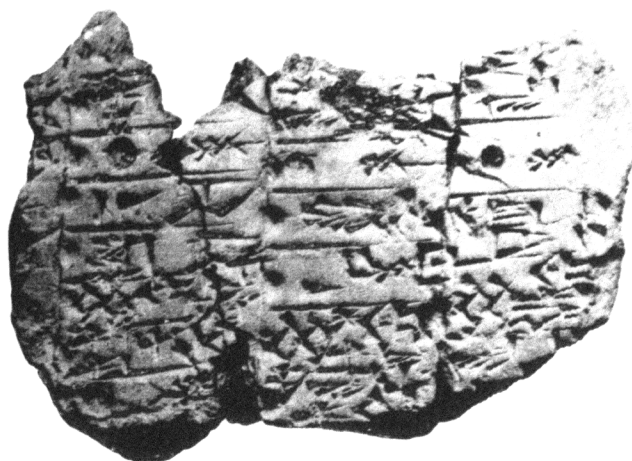
3. (U. 7849)



64. (U. 12534)



70. (U. 12578)



69. (U. 12576)



47. (U. 12507)



88. (U. 12822)



19. (U. 12538)



93. (U. 12824)



143. (U. 12867)



183. (U. 12913)



51. (U. 12516)



163. (U. 12891)



95. (U. 12826)





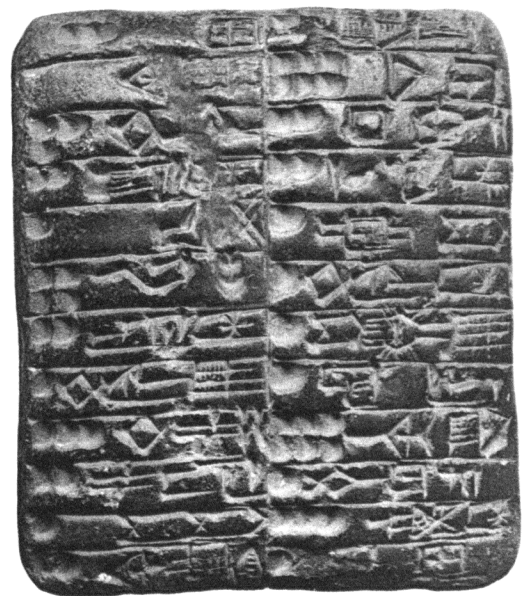
127. (U. 12863)



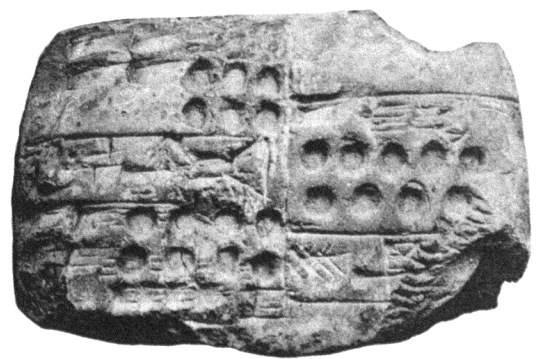
225. (U. 12967)



226. (U. 12938, etc.)



252. (U. 14179)



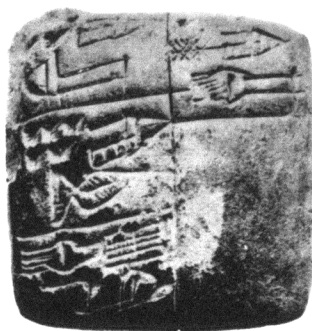
222. (U. 12957)



Supp. 11. (U. 13700)



Supp. 15. (U. 2860(3))



49. (U. 12510)



Supp. 20. (U. 12565, B)



61. (U. 12530)



Supp. 12. (U. 13805)



Supp. 17. (U. 2860(4))



Supp. 2. (U. 13844)



Supp. 52. (U. 13889)



Supp. 51. (U. 13815)



317. (U. 14190)



319. (U. 13905)



Supp. 51. (U. 13865)



324. (U. 14170)



322. (U. 14188)