HYKSOS AND ISRAELITE CITIES

BY

W. M. FLINDERS PETRIE

WITH CHAPTERS BY

J. GARROW DUNCAN

LONDON

OFFICE OF SCHOOL OF ARCHAEOLOGY
UNIVERSITY COLLEGE, GOWER STREET, W.C.

AND

BERNARD QUARITCH, 15, PICCADILLY, W.

1906
BRITISH SCHOOL OF ARCHAEOLOGY
IN EGYPT, AND
EGYPTIAN RESEARCH ACCOUNT
TWELFTH YEAR, 1906

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ISRAELITE CITIES

BY
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The need of providing for the training of students is even greater in Egypt than it is in Greece and Italy; and the relation of England to Egypt at present makes it the more suitable that support should be given to a British school in that land. This body is the only such agency, and is also the basis of the excavations of Prof. Flinders Petrie, who has had many students associated with his work in past years. The large results of this centre of work in the subjects of the prehistoric ages, the early dynasties, the relations of prehistoric Greece with Egypt, the papyri, and the classical paintings, have shown how much need there is of maintaining these excavations in full action. The present year's work on the Temple of Onias, a Hyksos cemetery and fort, the cemetery of Goshen, and the town of Raamses in Succoth, has carried on the course of historical discovery. Active support is required to ensure the continuance of such work, which depends entirely on personal contributions, and each subscriber receives the annual volume. The antiquities not retained by the Egyptian Government are presented to Public Museums, after the Annual Exhibition, during July, at University College. The accounts are audited by a Chartered Accountant, and published in the Annual Report. Treasurer: F. G. Hilton Price, Child's Bank, 1, Fleet Street, E.C.

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HYKSOS AND ISRAELITE CITIES

INTRODUCTION

1. THIS volume marks a new departure in the course of British excavations in Egypt. Hitherto the Egyptian Research Account has been a small resource for the promotion of the work of students; and, as such, it has enabled several to obtain that footing in the subject from which they have gone on to more important positions. It has been for eleven years a basis for the new men who have been entering upon work in Egypt. Now it has been largely expanded, and with the support of most of the British authorities in archaeology and history, it has taken the more permanent position of the British School of Archaeology in Egypt. Such it has long been de facto; but de facto in Egyptian affairs is not always de jure. It is well at last to adapt the name to the facts, and place this beside the schools at Athens and Rome, as the basis for British students. My best thanks personally are due to those who have helped this change with their counsel and names: to the Earl of Cromer for so cordially accepting the position of Patron of the School; to our Treasurer, the Director of the Society of Antiquaries, for continuing his support; and to none more than to Prof. Ernest Gardner, whose long experience at the British School at Athens adds weight to his opinions. The heavy work of the organizing and correspondence, which was undertaken by my wife, has been much lightened by the kind co-operation of Dr. J. H. Walker, to whom we owe many thanks. This expansion of public interest has enabled me to continue my excavations in Egypt, and the direction of students, on a larger scale than in the past two years. The limitations of the Exploration Fund, with which I had worked, led to that basis being withdrawn, greatly to my regret; such a break was entirely contrary to my wishes. Yet, when changes thus came about, it seemed fitting that a broader width of interests should be connected with the present position of Egyptology in England, which has developed so much in the last quarter of a century.

In the work of the past winter our party consisted of five. Part of the excavations were directed by my old friend the Rev. J. Garrow Duncan, who, many years ago, had worked very carefully at Naqada; and another student, Mr. C. Gilbart-Smith, after some experience in managing the workmen, also took charge of a site. My own part was the surveying, and unravelling the history, of the important structures that we found, as well as directing workmen during most of the season, and obtaining the photographs here published. The greater part of the drawings were made by my wife; and most of those from Mr. Duncan's excavations were made by Mr. T. Butler-Stoney, who kindly offered his artistic help.

We all began work at Tell el Yehudiye, which lies about twenty miles north of Cairo, and after leaving there I returned again later, when the water level was lower; altogether my wife and I spent about 8 weeks there, 9 weeks at Tell er Retâbeh in the Wady Tümilât, and a week at Saft el Henneh a short distance east of Zagazig. Mr. Duncan spent 10 weeks at Belbeh's and Sharkaiba, and 7 weeks at Saft. Mr. Butler-Stoney and Mr. Gilbart-Smith divided their time between the two camps, according to the requirements of the work.

2. It is perhaps desirable to give here an historical outline of the results of the season, so that those who are only interested in some one part, may better see where to look for their subjects in the following pages.

The earliest piece of history found was the settlement of the Wady Tumilat in the XIth, and probably as far back as the IXth dynasty. A few objects at Tell el Yehudiye show that it also was occupied in the XIth dynasty. The main interest of that place was the discovery of the original form of the great camp. This proves to have been an earthwork intended for a system of defence entirely foreign to the Egyptians. The high outside slope, 60 feet up
INTRODUCTION

the face of it, proves that archery was the protection of the occupiers; and the curious long ascent, to enter over the bank, shows that neither gateways nor any constructions in brick or timber entered into their defensive system. The rapid change to use of brickwork, and later to stonework on a great scale, shows how the barbaric ideas of these invaders became altered by contact with the Egyptians. The whole evidence of the scarabs and the pottery, found in and near this camp, proves that we here have for the first time a great work of the mysterious Shepherd Kings or Hyksos. The graves of this age have supplied the means of tracing the changes that went on between the XIIth and XVIIIth dynasties, in the styles of scarabs, of the black foreign pottery, and of the Egyptian pottery. For the first time we can assign objects to their relative positions, throughout what has hitherto been one of the dark ages of Egyptian history. Whether this site be the celebrated camp of Avaris, as seems probable, or whether it be a parallel site, its history is in accord with the outline of this age as stated by Manetho.

The next period, the XVIIIth dynasty, showed at Tell el Yehudiyeh the later stages of burials following those of the earlier cemetery. And at Saft, the ancient city of Goshen, a large cemetery begun in this age has given us a considerable quantity of beads and amulets. To the XIXth dynasty belongs the temple of Ramessu II at Tell er Retabeh. This site thus occupied by him is now seen to fulfil in every way the accounts of the city of Ramases, where, with the sister city of Pithom, the Israelites are stated to have been employed. The site of the temple founded by Ramessu has been found, and also much of the temple sculpture. Thus we can now identify another of the fixed points in the narrative of the Exodus. Of this same age is a large fortified town in the plain of the Delta, discovered by Mr. Duncan. This place seems to have been "the fountain of Horus," and is now known as Sharanba. As there seems no likely purpose in thus planting a stronghold out of touch with the roads on the edges of the desert, we are led to look for its purpose in the time when the Hyksos camp at Yehudiyeh was being girdled by the Egyptians, in order to cut off its supplies and eject the hated invaders. Thus the erection of this fortress may probably be taken back to the beginning of the XVIIIth dynasty.

Of the XXth dynasty we have the fortification of Tell er Retabeh, where Ramessu III left his foundation deposits beneath the corners. A careful gleaning of the site of his palace at Tell el Yehudiyeh has produced some dozens of pieces of the glazed tiles with figures, and shown that nothing more is to be hoped for from that ground. The XXIIInd and XXIIIrd dynasties have left several interesting objects for us in the cemeteries of Tell er Retabeh and Saft. The later branch of the Goshen cemetery at Suwa represents the XXVIth dynasty; and the cemetery of Tell el Yehudiyeh has supplied some of the beautiful green glazed bottles of that age.

Within our concession for work lay the pieces of the great granite stele of Darius at Pithom, which was published in transcription by M. Golenisheff. From the remains of the stele I made paper squeezes, from which my wife has drawn the facsimile here issued. This is the most complete of the great monuments put up by the Persian king, to commemorate his cutting again the canal from the Nile to the Red Sea.

Another of the main results of the season belonged to the Ptolemaic age. The curious return of the Jews to the protection of Egypt, from the persecutions of Epiphanes, is known to us from the pages of Josephus; and it had always been supposed that the site of the town granted to the High Priest Onias lay at Tell el Yehudiyeh. The discovery of the Jewish tomstones there by Dr. Naville confirmed this; but yet the site of the new temple and town was unixed. Mr. Griffith came very near to the mark when he wrote about the great mound, "The most probable site for the temple of Onias, if it stood here at all, is on the top of the mound." But he then adds, "I believe that the temple of Onias must be sought for not here, but in one of the neighbouring Tells" (Mound of the Jew, p. 53). Our work this season has, however, shown that this is Leontopolis, and that the great mound agrees in every detail with the site of Onias. The outer walls of a powerful fortification can be traced around it, constructed of great stones hewn like those at Jerusalem. The site of the temple courts, and of the sanctuary itself, is now bared and measured. The proportions of this temple were copied from that at Jerusalem. And the whole site was formed in imitation of the shape of the Temple hill of the Holy City. It was, in short, a New Jerusalem in Egypt.

Of the later ages the cemetery at Saft yielded many graves of Roman times, with beautiful glass vessels and strings of coloured beads; and the cemetery at Gheyta has shown how Syrian influence
was coming into Egypt in the later centuries of the Roman occupation. Thus the way was paved for the Arab conquest, much as the Saxon conquest of England was preceded by the settlements on the “Saxon shore” of Roman Britain. Of the Arab age some houses were cleared at Belbeys, in course of a search for earlier remains. Thus every age of Egypt after the Old Kingdom has been touched this year; and in two periods results of the first importance have been ascertained.

In issuing the great number of plates needed to record such an extensive course of work, it was not practicable to publish the less important portions in so large an edition. Therefore the ordinary subscribers receive a complete work giving all the material of general interest, while the larger contributors will receive the extra plates with lettered numbers, IV A, VIII A, VIII B, etc., inserted in their volumes. Thus the requirements of a full record can be kept up without undue expense or troubling the general reader with less interesting details.

I have alluded above to previous work at Tell el Yehudiyyeh. In 1886-7 Dr. Naville and Mr. Griffith found the cemetery with the Jewish tombstones, but did not otherwise clear up the history of the place. Dr. Naville revisited the site this year when we were at work, and was much interested with the great sloping face of the camp. At Tell er Retabeh the same explorer had made some trials in 1885–6, but left that site with the conclusion that it was only a Roman camp, and not of historic value. And at Saft el Henneh it is to Dr. Naville that we owe the first notice of the place in 1885–6, when he found monuments there. The cemetery was, however, not attempted at that time. After a lapse of twenty years passing without any further researches in this district, it seemed desirable to try to clear up its history, especially in continuing those researches bearing on the Israelite questions on which I touched last year in Sinai (see Researches in Sinai). The archaeological results now reached carry us in many respects much beyond the topographical work of the earlier explorers.

CHAPTER I

THE HYKSOS CAMP

4. On first viewing Tell el Yehudiyyeh there seemed hardly any possibility of recovering details of the ancient structures of the place. The accumulations of brick ruins of the ancient town, some twenty miles north of Cairo, had almost entirely disappeared; the site of the palace of Ramesu III was high in air, and amid the heaps of potsherds strewn over the enclosure the bare desert floor appeared in many parts. The sandy masses of the great square camp, and of the mound on the north-east of it, were cut away on all sides, so that not a fragment of original face appeared to be left. The stone wall has vanished, leaving only a long trench to mark its site; the earth and bricks have all been elaborately cut away to put on the land around; the sand is being carted away every day to use in building; and even the very potsherds are collected to place in foundations of houses. Every fragment and product of the ancient site is being removed, so that before long no trace will be left of this great city.

5. Yet as a continual flow of scarabs of the age of the Hyksos had come from this region, and the supply had not ceased, it seemed needful to try to rescue some history if possible from this site. Our first venture was the turning over of an area marked “Chips” on the plan (Pl. II), where a large mass of limestone chips showed that a building had been there destroyed. From this part northward, along the nearer half of the “Sand Foundations,” I opened a trench down to the native desert. In some parts four or five feet of black earth yet remained, in other parts there was none left. This trench from north to south was moved westward across the ground to beyond the “Granite Base,” thus completely turning over about an acre of ground. Parts which had rubbish descending below the water level in December, were cleared to lower levels in March. That a temple had existed here is shown by the long line of sand foundation of the walls, by the column of the XIth dynasty usurped by Merenptah, by the large black granite base for a statue, and by a life-size kneeling figure of which we found the lower part to the west of the chip ground. But it seems that the building, and all the other monuments which it formerly contained, had stood at higher levels which have been entirely swept away by the diggers of earth.

This clearance of ours was, however, fruitful in another way. Five graves were found, all containing scarabs of the Hyksos period, with pottery copied from the earlier Egyptian types, and imported pottery of the black incised ware (Pl. V). From graves which had been already dug over by the natives we found many other examples of this pottery left behind, and a gold-mounted scarab of King Khyan, with a plain
band of gold, perhaps a head fillet. That such graves of the Hyksos might well have been dug inside their camp, we see from the example of graves inside the town of Ehnasya under the later temple, and the graves of the 1st dynasty inside the town of Abydos.

While this work was going on I observed, in walking round the great bank of sand, that on the eastern side a thin white line ran through the ground inclined at about 45°. I traced this again and again at other points, and at last found it on every side of the camp. I dug down the slope of it, and bared a wide plane of sloping white plaster or stucco (Pls. IV, IV A), extending as wide as the earth was left remaining, and as deep as the present water level below it. This was evidently a great sloping face to the sand bank, and therefore gave the position of the outer surface as originally finished. As the present outside of the sand bank had been cut back in many parts to as much as fifty feet inside this stucco slope, the recognition of the original face greatly restored our view of the site.

The outside being thus identified, the inside needed fixing. This was more difficult as there was no white plaster, and the brickwork lining wall had been systematically dug away. Traces of it were remaining against the sand face, mainly in the north-east corner. But only one piece of the north face, one piece of the east face, and the line of the south face could be recovered. These suffice to show the position and the thickness of the great sand bank, which even at the top was 80 to 140 feet wide.

The entrance to this camp was the next point to be studied. On the eastern side the sand bank is much lower in the middle, and it was natural to suppose that a gateway had been destroyed there. Also there was no trace of the stucco slope in the middle of the side. I cleared this part therefore to find the gateway. To my surprise the stucco slopes on both sides of the middle turned into walls running outwards to the east, and no trace of a gateway could be found. We dug on, but only uncovered a long slope of brickwork pointing up to the top of the sand bank (Pl. III), with lesser lines of sloping brick in the sand below. At last it was clear that there had never been any gateway, but that the entrance was by a long sloping roadway, leading over the top of the sand bank.

The western half of this region was occupied by walls of a different character, evidently associated with the remains of Ramessu III. Whether this part was ever included in the original camp was for some time a problem. On the south side a sloping face of brickwork was found (Pl. II, see A) cutting across the main bank, and at first it seemed as if this were an original corner. But it was traced outward to a sharp bend with the outer stucco face of the bank, and it became clear that it was only a revetment to hold up the end of the bank, when cut through and replaced by the walls of Ramessu. The later discovery of the stucco slope, complete on the west side, proved that the camp was almost equilateral. Having now described the order of examination of the site, we may proceed to the details that were discovered.

6. FOUNDATIONS. The first question in dealing with a sloping structure is the position of its original base level. Any building that was founded within a few yards of water-level in Egypt, is now submerged at its base by the steady rise of the Nile deposits, and of the general water-level of the country. This rise amounts to about 4 inches in a century; therefore since the Hyksos times, over 4,000 years ago, the rise of level must have been about 160 inches or more. As even now much of the inside of the camp shows the desert ground almost up to high Nile level, it seems that the highest part of the ground was about 12 or 13 feet over high Nile. Naturally the site fell away on most sides, but we cannot suppose that the earthwork extended below old Nile level, as the general plain was covered with Nile deposits up to that. I have sounded the face of the wall down to 20 inches below the present level of water in March; and the level of that season is marked on the sections, both for the present time and for the period of construction.

The best guide as to the starting point of the slope is given by the stone wall which was added around it, as shown in the sections on Pl. III. It is not likely that in adding such a wall any large amount of the slope would be cut away; the base breadth of the wall might very likely be removed; but more than that is not so probable. Therefore the slope is not likely to have continued lower than the level marked "old ground?" Indeed it cannot have gone more than a couple of feet lower, as the general level of the alluvial plain (even if there were no desert footing here) would be about two or three feet over the "old water" level of the spring-time. Nor is it likely that the slope ended higher than we have marked it, as the stone wall would naturally be cut a little into the foot of it. We have therefore adopted the level marked as "old ground," as an approxima-
tion. It happens to be the theoretical zero of all my levelling, which was started by taking a signal on the top of the bank as 500 inches level. Hence all levels named here are in inches above the probable original ground.

On the plan the outline of the slope was fixed by taking as high a portion as could be found in each part, and measuring the angle of it, or angles if it varied. This angle was then carried upward to 500 inches level and downward to zero, or old ground. The horizontal distances from the points fixed were plotted on the plan, and so the outline of the top and foot of the bank were determined at each part, as shown in the plan. Each point which was thus fixed is marked by a short cross stroke on the outline. Where the top and bottom of the bank come closest together, as at the north-east corner, the slope is at its steepest.

The width of the bank as laid out varies from 1580 inches on the south side to 2360 on the east, at its base, roughly 130 to 200 feet. This irregularity is similar to the want of parallelism and of squareness between the sides. The whole outside varied—

N. to S. 17600 to 18430 inches, 1471 to 1536 feet.  
E. to W. 17650 to 18750  1471 to 1562

Hence it was more nearly equal in length and breadth than the skewness of the sides would lead us to expect.

The inside dimensions are less certain, as I have not uncovered the original inner face of the west side. It is here restored from the north side. But a piece of wall just within the remaining heap of sand at the north-west may be part of the lining wall; and, if so, the bank was thicker than it is marked. The inside was about 400 yards square. We may perhaps allow two square yards of house room for each man in a closely packed camp; and the roads and walls might occupy as much as the floor space. The whole camp might then hold 40,000 men; or if they were put together as closely as English soldiers in tenting, there might be 80,000 men.

7. BANK AND STUCCO SLOPE. The great bank is in most parts pure sand (see views, Pl. IV.). Along the eastern side it consists largely of marly lumps; and on the south-east corner much of it is of yellow lumps of decomposed basalt, collected from the surface of the basalt flow, which is now found a mile or two to the east on the desert. In most parts there are embedded in the bank scattered bricks, and irregular short walls of loosely piled bricks. Such seem to have been marks for limits of working gangs, or possibly shelters for the men employed. These bricks are 14 to 15 inches long, 6½ to 7½ wide, 3½ to 5½ thick; the details of sizes of bricks will be given in Section 8.

The angle of the stuccos lope outside of the bank is by no means constant, as is shown in the base of Pl. III. The variations of it are from 27° to 55°, and these limits are found in a single slope on the south-east. But four-fifths of the cases fall between 36° and 45°, the mid example being 41°. From this amount of variation it does not seem that any measurement was followed in setting out the face, any more than there was in laying out the direction of the sides. The height of the slope was from 50 to 70 feet, according to the varying angle. The stucco face is plastered over with hard white plaster, about ½ to ¾ inch thick. This was spread by the hands, as may be seen by the finger-sweeps showing upon it, where well preserved at the south side of the sloping ascent. It is laid on in bands about 30 inches high, leaving a slight ledge at the top of each band (see view, Plate IV A). This evidently marks the breadth which was covered at once in the plastering, the ledge being the slight foothold left by the workmen as they went round the plasterings. Such slight ledges greatly detract from the inaccessibility of the slope, and they are another mark of the untrained and badly organized character of the whole work.

Behind the stucco slope there is a steeper retaining wall, seen on the north and the south-east, as shown in the sectional view of variations of slope, Pl. III, base. This wall is in ledges, each course stepped back, and the appearance of it where bared on the south-east is shown in the photograph, Pl. IV. This wall has been nearly all removed, as it was a source of brick-earth to the modern diggers; and in some parts a deep trench runs between the stucco slope and the sand bank core. Where preserved, this wall has an angle of 58°, and is built of bricks 14½ to 14½ ins. long. Why the face of this wall itself was not smoothed and stuccoed we cannot understand. To add more earth to the lower part, and so make a flatter slope for the final face, seems to throw away the defensibility of the bank. Perhaps this wall was originally intended for the face; but, if so, it may not have proved strong enough, and have bulged with the pressure behind it, as it was fifty feet in height. This would account for the lower part being banked over, and a flatter slope substituted. Such seems to be the only explanation of this inner sloping wall.
The inside wall of the bank towards the town was almost vertical, as seen along the south side, where it is best preserved. The traces of the backs of the bricks can be seen all round the north-east corner. The inner face was traced for some way inside the north side, and on the east it was identified at one spot where it is preserved.

There is no trace of any brick wall on the top of the sand bank; and though in other positions brickwork has been diligently cut away, yet in all such places some fragments have been casually left. The top where best preserved is flat, and strewn with weather-stained flints and potsherds, while there is no trace of any trench or space where a brick wall has been dug away from the top. Mr. Griffith, who saw the place when it was much less disturbed, also considered that there was no trace of a defensive wall on the top. It seems therefore that at first the earthwork alone was the defence; and later, when walls were valued, the great stone wall outside rendered any brick wall needless.

8. Entrance. There does not seem originally to have been any gateway through the bank into the camp. Certainly there was none on the east; on the south the bank is continuous beyond the middle; on the west the line of the stone wall continued across the middle; and it is only on the north that the destruction leaves us in doubt as to the continuity of the bank, though the sand is certainly continuous to ten or fifteen feet above the old ground level, and therefore probably no opening existed. The only original entrance that we can trace is the sloping ascent on the east side. This was a gentle slope about 225 feet long; but the lower part of it became covered with a great mound of town rubbish in the Ptolemaic time, and hence I have not cleared or planned it further out than the upper half. Near the bank it has been entirely cut away in removing the inner retaining wall of the bank, hence only a part of the upper half can be seen. The outline of the entrance given on the plan, Pl. II, is certain in the upper part; but the lower end is conjectural, as it is still deeply buried. At first there was only a continuous ascent 35 feet wide, as shown on the plan, Pl. III; this ran up over the slope of the bank, pointing towards the top. The actual breadth of this ascent is still well preserved, with vertical walls on each side of it. The stucco slope outside of the bank bends irregularly to meet this, and turns round in the corner where the wall joins it. The foot of this ascent would perhaps not be as wide as the upper part, as there was good reason to limit the rush of an enemy at the beginning. The fact that the stucco slope turns out to join this ascent proves that this approach is the original roadway, and not a siege-work or an alteration of later times.

After this raised sloping ascent was thus made, a remodelling of the defensive system was soon adopted. The plaster on the stucco slope on either side of the roadway was perfectly fresh, and had not been exposed for even a few years, when it was covered over with new works. It seems to have been perceived that the ascent was too far from the archery defence. The long slope withdrew the bowmen from the beginning of the ascent, so that the flank attack was at 300 to 400 feet distance. This led to a change in which the Egyptian system of vertical walls began to be utilised. A flanking wall was thrown forward, out to the edge of the great slope, for more than 200 feet along (see the model, Pl. IV). This shortened the diagonal attack on the approach by 80 feet. Then the flank wall was continued along the sides of the approach itself (see “Outer retaining wall” in the plan, Pl. III), the inner retaining wall being that at the sides of the road. This gave standing room of over forty feet on either side of the actual gangway; and this fresh space could hold a large body of archers commanding the gangway from above. The defence then consisted of not only distant flank attack on the approach, but a sunk causeway leading through a body of archers, and so forming a complete trap; thus the defence was far superior to the attack on the vulnerable point.

The place of this flanking wall on the north of the ascent was later occupied by the stone wall shown on Pl. III, in “Section north of sloping ascent.” On the south side of the ascent, in the next section, the flank wall of brick occupies the same alignment as on the north, but it was raised on a bank of sand. Where the later flank wall of stone joined the ascent on the north (Pl. III, plan), it fell into just the same place over the foot of the slope; but it has all been removed for stone, leaving only the brick flank wall along the side of the ascent, marked “Outer retaining wall.” On the south side the flank wall was not only based on a sand heap, but it curved round irregularly to the side of the ascent. The whole of it has been removed, and only the lumps of marl in the backing show where it stood. The sizes of the bricks vary a good deal. They may be summed up as follows:
THE ENTRANCE

In the sand bank:
\[140 - 15.4 \times 6.5 \times 7.7 \times 3.2 - 3.8\] inches.

In the gangway:
\[14.3 - 16.1 \times 7.3 - 8.2 \times 34 - 47\].

In the flanking walls are three different classes:
\[14.5 - 15.1 \times 7.1 - 7.4 \times 3.2 - 3.5\]; also
\[15.4 - 16.2 \times 7.2 - 7.4 \times 4.4 - 4.5\]; also
\[17.5 - 18.1 \times 6.5 - 8.5 \times 4.2 - 4.4\].

9. STONE WALL. On all sides of the camp may be seen a deep trench in the ground, which is filled with water early in the season, and the natives all agree that they have in recent years removed from that ground a great stone wall, three blocks in width. In 1887 the remains of the wall were in course of rapid destruction; but now none could be reached except at low water in March, and even then only a few stones were found in the less-disturbed parts. I was anxious to examine this wall, owing to the previous description of it (Mound of the Jew, p. 49) as a stone-lined ditch 32 feet wide. Mr. Griffith informs me that he intended by this a dry ditch—that is, two walls at 32 feet apart over all. This appearance which he saw was doubtless due to the relation of the wall around the camp, to the wall facing the western side of the hill of Onias, as these would be about that distant apart where running parallel at the north-east. And I could not hear, or see any traces, of a second wall around the camp. The position of the stone wall in relation to the stucco slope of the bank, depends upon the original ground level; but it seems that the most likely arrangement, already discussed (that is, the slope being cut away three or four feet for it), accords very well with the probabilities of the levels. On the north of the ascent (Pl. III.) there was no stone remaining as low as we could reach in March. But the sand and marl backing came to a vertical edge; and against that there was only recent loose earth, which had evidently fallen into a hollow dug during the last few years. This was then the position of the wall. Farther north of this, at the north-east corner, I made a large excavation down the slope, and also advancing from outside; we found much broken stone in large flakes, evidently from the destruction of great blocks of fine white limestone. This destruction seemed to be ancient, and was doubtless due to the removal of materials by Onias.

To the south of the ascent I carried down a pit at the place marked "Wall," and found two blocks in place above water-level. A second pit north of this was dug, outward from the lower courses of the flanking wall, and again two blocks were found, one on the other. One block was 56 inches wide, 33 high, the length not seen; another was over 56 long and 45 wide. Both were of the finest white limestone. Their relation to the retaining wall is shown in the section "South of the Ascent." On the north of the ascent the stone wall replaced the brick flanking wall; on the south it was about nine feet in advance of the flanking wall. This difference will be seen in the plan, Pl. II. I had selected the above places as having apparently not been dug out recently; most of the circuit has only a deep modern ditch in the line of the wall.

On the west a long trench appeared, cutting through higher ground on the edge of the Arab cemetery. This trench ended in high ground, so there again I tried for the wall, and found two stones of the outer face in position. The upper of these blocks was 81 inches long, 40 high, and 25 thick. An excellent section was bared here, showing the relation of the stone wall to the stucco slope, and the nature of the filling between them. The slope had lost all its stucco in some parts, and in others it was weathered and rotted, before the stone wall was added. This points to the slope having been used for two or three generations before the system of defence was altered. On looking at this section, the lowest on Pl. III., "On west face," it will be seen that the filling is mainly of sand in layers, sometimes with potsherds, and one stratum is of yellow lumps of decomposed basalt, such as is usual in the filling behind the slope on the south-east. The upper bed of sand sloped steeply back at 120 inches over the water; and I was told that the stones that were removed had been found up to this higher level. The history of the place then was that the upper part of the stone wall had been anciently removed, and the sand backing had run out over the lower part. Then it was entirely buried with earth of decomposed bricks, from the great Ramesside wall inside it. Recently the lower courses had been also removed, and when I went there I found only two stones left.

This great stone wall was about 6 feet thick, as shown by the bed on the west side. It must have been somewhat higher than the sand bank, which was 41 feet high, so we cannot reckon it at less than 45 to 50 feet in height. The length was 5,450 feet, or over a mile. It contained therefore about 80,000 tons of stone. The quality of the stone where seen in building or chips was of the finest white Mokattam limestone, which has no grain, and which flakes
evenly in all directions. It was equal in quality to the best casing stone of the pyramids.

10. LATER HISTORY. Of the XVIIIth dynasty we find no trace. Ramessu II appears to have favoured a temple here. A group of two seated figures in red granite shows the king and a god, doubtless Ra according to the references on the back. The back of the group, as it lies on its side, is photographed on Pl. XIV-B, and copied on Pl. XV. The inscription has been translated by Dr. Naville thus: "(1) I am thy venerable father, the lord of thy beauties; (2) . . . Ramesses thou art prosperous like Tum in the great hall; (3) . . . like Khepra every morning crowned on the throne of Ra in the vestibule of Tum. (4) I am protecting thy limbs every day: thy might and the power of thy sword is above all lands. (5) Thy head is never opposed in all countries, Ramesses, friend of Harmachis, the great god." The position is shown as "Granite Dyad" on Pl. II. Another block probably of the same reign is the large black granite base for a statue. It did not belong to the dyad, as the front of it was the narrower dimension. Though the granite is much weathered I could still trace the symmetrical inscription on either side of the axis, Ankh Hor Ka nekht. The block is 37 inches wide and 69 long. The position is marked on the plan.

The next piece that can be dated here is the red granite column with the names of Merenptah. The original work is doubtless older than this king, probably of the XIth dynasty. It may have been brought by him from another site, and is not therefore an evidence of a temple being here before the Hyksos. The photograph is on Pl. XIV-B, and the copy on Pl. XV. The two pieces of column are 76 and 96 inches long; the whole height therefore was 172 inches, or a sixth less than the granite columns of Echnasia. This shows that a temple with a portico had existed here.

The great work of later times was the rearrangement of the place by Ramessu III. He cut away the great bank of the camp over the western half, and built a new town, with thick brick walls, and a long front facing the old town. In the middle of this front was a portico, of which the square basement of brickwork remains, with the red granite base of a column lying upon it. The mass of brick is 605 E. to W., by 590 inches N. to S. The granite base is 63 inches across; its inscription is given in Pl. XV. West of this are the blocks of alabaster pavement of the great hall; this was long since dug away, thus letting down the blocks to a level far lower than the original pavement. The present view is given on Pl. XIV-B. To the west and north-west of the portico were found most of the remaining fragments of the celebrated glazed tiles with figures, shown in Pl. XIV-B. The sad history of the destruction of this place may be seen in the Transactions of the Society of Biblical Archaeology, vii, 177. The remaining pieces of the wreckage are in the Cairo and British Museums.

On digging deeper in this ground we found at a little above the water-level, a thin drinking cup of the form usual in the XIIth dynasty; this type may very probably have continued rather later, so it does not prove any occupation before the Hyksos time.

The removal of the bank of the camp was not completed on the western half. One block of the sand and marl was left outside of the Ramesside wall, near the north-west corner. It is shown on the plan, Pl. II, and also appears at the left hand of the view of the great bank on Pl. IV. And on digging for the western wall we uncovered the stucco slope to ten feet above water-level, outside the line of the Ramesside wall; and a further portion near by was bared by the sebakh diggers. Probably most of the stucco slope could be yet found along this side. It seems then that Ramessu III cut down the upper part of the bank, and doubtless used the sand to mix with Nile mud in making the bricks, for all his great constructions here. Where he cut off the bank at the south side a sloping wall was built across it to hold up the sand, at A, Pl. II.

In the XXVIth dynasty some temple existed here, as otherwise the life-size figure of the admiral Hor (Pl. XIX) would not have been placed in the town. And at that time the worship seems to have been directed to the lion-headed goddess, the Bubastis Agria named by Josephus.

In Ptolemaic times also there was a temple, as is shown by many fragments of Greek architectural features found near the other sculptures. The house ruins of the town had so much increased that the ground had risen to the top of the great bank. The remains of this condition were seen in 1871 and 1887, but now only a few high walls are left in the south-east corner.

11. ORIGIN OF THE CAMP. Having now described the actual remains, and what can be gathered from them, we may sum up the results of the facts, and consider the origin and meaning of the camp.

The most obvious point is the entirely un-Egyptian
nature of the camp, and of the mode of defence which it implies. Instead of the high massive brick walls which were used from the IIInd dynasty onward, as at the Abydos forts and city, at Semneh and Kummeh, at El Kab, and every other Egyptian town that has been preserved, we have here a very thick bank of sand with a slope sixty feet long, and no trace of a wall on the top of it. Instead of the elaborate gateway traps that the Egyptian reckoned on for his defence, there is here no gateway but the exposed sloping ascent over two hundred feet in length.

It is evident therefore that the people who made the fort were not accustomed to the hand-to-hand fighting, such as the Egyptian found profitable owing to his superior weapons; for a fine illustration of early Egyptian fighting we may refer to the spirited siege of Nedaa, sculptured at Deshasheh (Deshasheh, Pl. V). On the contrary, by trusting their defence to a protracted approach of the enemy these people must have depended on projectiles. A barbed wire tangle in the present day, or a long glacis, is expressly for use with gun fire; and a slope sixty feet long, with an entrance approach two hundred feet long, would be useless without good archery. It is clear therefore that the type of fighting of the settlers was archery, combined with a long exposure of the enemy.

In describing the entrance, and the changes in its form (Section 8), I have explained them as adapted for archery. At first it was solely made to agree with plain earth-bank defences. Then after a year or two it was modified by the use of walls for flanking defences. And when, after two or three generations, the old system of fighting was abandoned, then a stone wall was substituted for the sloping bank.

That the camp is older than the XXth dynasty is certain, from its having been cut down and altered at that age. What people before that age were using a defensive system entirely different to that of the Egyptians? We can only look to the foreign invasions which broke up the XIVth, the VIIth, and the IIInd dynasties. Among these the choice is absolutely decided by the profusion of scarabs of the Hyksos age in the camp and the region around it, while there is no trace of the earlier periods. No conclusion is possible but that the camp was due to invaders between the XIVth and XVIIIth dynasties.

The position of the camp is excellent. It lies between Memphis and the Wady Tumilat, by which any eastern people must advance into Egypt. It is on a low rise of desert which here projects into the cultivation. Probably this was connected with the eastern desert in the earlier history, and it has since been separated by the rise of Nile mud, which now occupies about a mile width between the desert and the camp. The desert edge at present projects into the Delta, this region having been largely protected from denudation by a flow of basalt which covers the soft marls and limestone. Hence the position of the camp was surrounded on three sides with cultivation, while yet belonging to the desert. It commands a fine view into the desert for many miles; and an invader would need to make a wide detour to avoid touch with a fortress so placed. The distance from Memphis rendered this position the key to the capital, in the days of foot-marching or small horses. Thirty miles was then, what the fifty miles from Tell el Kebr to Cairo is now with large horses. This camp was the limit of striking distance from the capital, the point which must be secured before any advance from the east into Egypt was possible.

That such fortified camps were made by the Hyksos is shown by the passages of Manetho quoted by Josephus. He states that the invaders after a barbaric period, equivalent to the age of the earthwork camp here, became more civilised, and that their first king, Salatis, made the city of Avaris "very strong by the walls he built about it," and that they "built a wall round all this place, which was a large and strong wall." Thus the history that we have traced here of an earthwork camp constructed by nomads, who later placed a great wall around it, exactly accords with the account of the Hyksos.

12. POSITION OF AVARIS. A further question indeed arises as to whether this camp was itself the celebrated stronghold Avaris, which has been generally supposed to have been down by the coast in the north-east of the Delta. In favour of such a site as Tell el Yehudiyeh there are the following connections:

(1) Avaris was built to defend Egypt against eastern invaders (Josephus c. Ap. i, 14). This implies that it was on the eastern road which went by the Wady Tumilat; for it would be absurd to put a fortress for this purpose near the coast and far to the north of that road.

(2) Avaris was upon the Bubastite channel (Jos. c. Ap. i, 14). This implies that it was between Memphis and Bubastis; were it near the coast it would be referred to the Pelusiac, Tanitic, Mendesian, or Pathmetic channels, and not to Bubastis, north of which the channel branched in two.
(3) The only monument known which belongs to Avaris (Hatuart) is the altar of Apepa II (Petrie, Hist. i, 243), which states that Apepa made monuments for his father Set, lord of Hatuart. This was found in Cairo, and must have been brought from the region whence stone was collected for Cairo building. Memphis and Heliopolis were thus plundered, and perhaps our camp; but certainly a town in the marshes of Menzaleh would not supply material to Cairo.

In favour of the northern site near the coast we must consider:

(4) Avaris is said to have been in the Saite nome (Jos. c. Ap. i, 14); and as this is recognised as absurd in relation to its eastern position, an emendation of Sethroite for Saite has been accepted. This is supported by Africanus' excerpt from Manetho, "The shepherds founded a city in the Sethroite nome." But there is no proof that this is the same as the city named by Josephus in the Saite nome. On the contrary, a corruption of Saite from Sethroite is unlikely. The more probable origin of the reading may be in some place ending in ——polis, as ...CAITHC might well be read as CAITHC if the earlier part of the name were defaced. This would therefore be an easy corruption from the words "Heliopolite nome."

(5) There is a mention of Set of Hatuart by Merenptah upon a statue at Tanis (Petrie, Tanis, i, II, 5 A); but this is only an addition to an earlier monument, and it merely states that the king was loved by Set, and does not refer to making monuments to Set as on the Cairo altar.

(6) Avaris is stated to have been garrisoned by 240,000 men, and to have occupied 10,000 arouras (Jos. c. Ap. i, 14); this would be a camp of nearly 3½ miles square. But it is very unlikely that any single fortified camp would be of this size, owing to difficulties of health and management; nor is it likely that a "large and strong wall" would be of 14 miles in length to surround it. Rather must we suppose a stronghold of practicable size, surrounded with encampments covering altogether 12 square miles, the whole group holding quarter of a million men beside their families.

The only serious reason for seeking Avaris near the coast is its supposed identity with the "city in the Sethroite nome" of Manetho; while in favour of the Yehudiyyeh camp being Avaris there is the position on the road to Syria, the relation to the Bubastite channel, and the altar of Avaris found near Cairo.

It seems therefore probable that the camp which we have described is the Hyksos capital of Avaris, and that we have before us here the "large and strong wall" of Salatis.

CHAPTER II

THE HYKSOS CEMETERY

13. The principal cemetery of Tell el Yehudiyyeh lies on a sandy rise of desert ground stretching out to about half a mile on the east of the town. Beside this there is a cemetery on the edge of the desert a mile and a half to the east, and there are isolated graves beneath the black-earth ruins in the camp itself. We shall here deal with the graves in their probable order historically. The numbers applied to them, and marked on their contents when found, have no relation to their chronological order, being necessarily applied in the order of discovery. The consecutive numbers extend to over a hundred, but higher hundreds were begun on other occasions to avoid any possible overlapping of numbers.

We will first describe those graves which had pottery and scarabs distinctively between the XIIth and XVIIIth dynasties. These were partly inside the camp and partly in the eastern cemetery. Those in the camp had suffered by crushing, owing to the great height of town ruins that had accumulated over them, and the wetness of the soil. Those in the cemetery had suffered by plundering, and none were complete, as they had been broken into when digging later graves. Unhappily, not a single skull could be saved from this class: in the camp they were in fragments as soft as putty; in the cemetery nearly all were destroyed anciently, and others were rotted by damp.

The important question of the general age of these tombs is proved by the scarabs found with them. All of these were of the style which is always recognised as a degradation of that of the XIIth dynasty. And three scarabs found by us, and one bought here, gave four names of kings who are believed to belong to the age of the XIIIth to XVIIth dynasties. These are of Mernefera, 116, Pl. IX, Khyan 124, Sekhentra 143, and Apepa I 144. The photographs in Pl. IV A show these as A, 3, B, 3, B, 4, F, 3. It may therefore be accepted that this class of graves covers the period of the Hyksos kings, a few centuries before and after 2000 B.C.

On comparing the contents of these graves we
find some variety in style; and as the scarabs are the most varied and distinctive of the contents, and are linked to the known forms of the XIIth dynasty, it is best to begin the distinguishing of ages by means of them. Accordingly, the scarabs and the black pottery, which are the most clearly variable contents, are published here together, in groups as discovered, on Pls. VII, VIII. The metal work is on Pl. VI. The black and foreign pottery found without other dating material is on Pls. VIII A, VIII B, as it is not of historical use, but only shows undated varieties. And the plain red pottery is on Pl. X.

The remainder of the early scarabs found singly, or bought at the site, are on Pl. IX, and photographed on Pl. IV A; while on Pl. V are photographs of the daggers, of the most complete tomb which we found, and of the types of red pottery and black incised vases. Finally, in reading the following descriptions, the plans of the graves on Pl. XII should be used. Thus the whole material is fully placed at the disposition of the student.

14. The order of sequence which appears most likely, has been followed in arranging these grave-groups on the plates VII and VIII. The scarab of the most regular work, no. 1, is probably the earliest, and so dates grave 2; with it was a buff vase, no. 2, with red lines, clearly of foreign origin, and four black vases, of which the types are given, nos. 3, 4, 5.

The grave 407 appears to be the next in age. The scarabs nos. 6 and 7 seem to be variants of Kheperka-ra, the name of Senusert (or Usertesen) I of the XIIth dynasty. The substitution of nef or neferui for ra is pretty well established by many other instances; and the coil patterns have their finest development in the reign of Senusert. The signs of coarseness in these, however, preclude their being of the age of Senusert, but they are good copies of his. With them are two others, nos. 8 and 9, which are clearly of debased style; and the eight uraei on no. 10 are similar in idea to the uraei on scarabs of Antef Nub-kheper-ra. With these were five black vases, of the types nos. 11, 12, 13, and one red one of the type no. 93.

The next in date appears to be grave 3. There are no good copies of older scarabs, but only ignorant and clumsy groupings of signs. No. 20 is senseless, but of fairly good cutting. The nos. 14, 15, are clearly like 8 and 9, but ruder. Nos. 16 and 17 begin the series of animal figures; but this sphinx and this hawk show how far removed they were from the good work of the XIIth dynasty. And we see here the hawk-headed man holding a palm-branch, which is fairly clear, but which became far ruder subsequently. The kohl vase, no. 21, is departing from the good forms of the XIIth dynasty, and approaching the type of the XVIIIth dynasty. The black vases show a change: no. 22 being exaggerated, and no. 25 more elaborate than the earlier nos. 3 and 11; while no. 26 is less graceful than nos. 5 and 13, and this type here ends.

In grave 5 there are only two scarabs, nos. 27 and 28, for dating. They have the coarse figures later than no. 18. A plain amethyst scarab in gold setting, no. 29, was with these. The tomb chamber had certainly been disturbed, and the two eyes were doubtless a later introduction of the XXIInd dynasty.

We now reach the scarabs with concentric circles. No. 33 is clearly earlier than no. 47; and also, having two hieroglyphs, may claim precedence of 34, which is senseless.

In graves 16 and 20 there were no scarabs; but the black vases nos. 36 to 41 may be classed in this place. Nos. 39 and 40 have the more acute lines of pricks, like nos. 35 and 48; while in earlier times, as in no. 4, the lines are flatter. The outline in no. 38 is fuller and less shapely than in 24 and 25, and approaches the coarse forms of nos. 49 and 50. No. 41, widenings below, approaches the late form no. 57.

The fine grave 37 contained a late group of scarabs. No. 43 is coarser than 27 and 28; no. 44 is ruder than 17; no. 45 is much worse than no. 18; and no. 47 is coarser than any others here. The types of the black pottery are also fuller and more clumsy than any before this, while the combing round the pot no. 52 is a cheapening of work, on the road to the plain surface of no. 57.

In grave 1 there was no black pottery, and no construction of a tomb. But by the types of the scarabs Pl. VI, 4, 5, they seem to be quite as late as nos. 43 and 44.

Later still is grave 6, as we must date scarab no. 53 later than 43, and no. 55 later than 42. The pottery here is plain black without any incised pattern, and of a later form than any which have been noticed here.

The subsequent stages are outside of this group of graves with scarabs. But it is clear that the form of no. 57 passes on to a flat-bottomed shape, no. 103 (Pl. VIII B); and that again to a globular flask of black ware, nos. 107, 108, which is already known to belong to the XVIIIth dynasty. Thus the changes
of type of the black pottery are now continuous from those with well-made scarabs of the X11th dynasty style, down to those of the XVIIIth dynasty. Having dealt with the relative ages of the graves, we will next consider them in detail, with their plans and contents altogether.

15. Turning to the plans of the graves, Pl. XII, it will be seen that of these Hyksos graves six have the head to the east, and three (graves 2, 5, 43) have the head to the south. This seems to be a true mixture of usage, as those to the east are both early and late; we cannot, therefore, suppose a change of custom, such as was observed between the VIth and X11th dynasties (Diopolis Parva, pp. 42-3).

Grave 2. The body was all broken up, but the vases and pan seemed to be in original positions; the line of vases suggests that the length was N—S, and therefore the head may be also in place. There was a blade-bone in true relation to the head; and on it a copper pin, shown at the base of Pl. VI. These pins were used as fasten garments, being secured to one edge by a string through the hole in the middle, and then passed through an eyelet in the other edge. Such pins are known in Cyprus, and so were probably introduced here along with the painted buff pottery nos. 2, 51, 58, 98-102 (Myres, Cyprus Museum Catalogue, nos. 591-8; see also pottery no. 368, black incised ware nos. 281-8). They were also found down to the XVIIIth dynasty at Gurob, one being of gold (Ilahun, XXII, 1, 2, 3). The position of the pin upon the blade-bone shows that it held the garment at the throat. Just before that was the scarab, which was probably on a hand placed in front of the face. In the pan at the head were animal bones and a fish, and the ring-stand near it had a jar upright upon it. This was a disturbed group in the mud of the camp, and no sides of the grave were noticed. The red pottery is shown in Pl. X, 1, 36, 52.

Grave 407. This grave in the camp had been broken up at the west end; but the trunk of one skeleton remained, and the whole of another. This was the only instance of two bodies being found together; though the two skulls in no. 5 may have belonged to simultaneous burials. The general appearance of the grave, cleaned from mud so far as practicable, is given in Pl. V, which should be compared with the plan, noting that the right-hand end is much foreshortened. The sex of the two bodies could not be determined, as the skull and pelvis were too much crushed and decayed in both. But the western body had the dagger on the thigh, and would therefore be a man. The scarabs are nearer to this one, but strangely placed; two (nos. 6, 10) were far in front, while three (nos. 7, 8, 9) were on the bones of a hand which lay detached, with the wrist to the northwest. This cannot have belonged to a third body buried here, as the hands of the others are on the north of the grave. It seems then to have been a hand buried alone. The bones of the western body are difficult to understand: the left arm was bent, and the hand by the dagger; but the right arm was stretched out in front, and apparently the ulna turned upwards in front of the knees of the other figure. This seems an impossible distance from the body. It may be that these persons were slain in a battle. This would account for there being two bodies together and part of a third; also for the apparently separated arm, and for the certainly superfluous loose hand. There were six black incised vases, and an unusual amount of the red pottery (Pl. X, 2, 3, 4, 5, 28, 29, 32, 54, 55), including a tall stand (Pl. X, 30) and a large globular vase (Pl. XIV A) of the X11th dynasty style. The dagger is shown on Pls. V and V1, 1; the ring is a very thin casting of bronze over an ash core, and was the pommel of the handle, judging by its position.

Grave 3 was a burial in a wooden coffin in the camp. The thigh was very small, being only 14 inches, instead of about 18 as usual; but the humerus was normal, 12 inches, and the height of the trunk from the thigh ball to the vertex was 29 inches, which is not small. In the whole body of grave 407 the trunk similarly was 31 inches. Both of these heights should be increased a couple of inches to allow for curves and decline of the head, if making comparison with the living. Three scarabs (nos. 15, 16, 17) were placed on the stomach, and two others (nos. 14, 20) among the black incised vases at the feet of the coffin. The knees rode up over the coffin edge, as if it were too narrow for them. The coffin was of thin boards, the traces of which remained running through the mud as straight black planes about 1 inch thick.

Grave 5. This grave was the most ancient found in the cemetery east of the town. The chamber was 90 inches long, and 38 wide; and adjoining it on the west was an annex 37 long and 25 wide. Two skulls were in the chamber; but whether of the same period, or one due to secondary burial, could not be settled, as the bodies were entirely broken up anciently. In the annex were only sheep and lamb bones. This annex seems to have been for funeral sacrifices; yet a
Planes of the Graves

The only not broken was the circular chamber, and it is figured in Pls. V and VI. Two bronze toggle-pins (VI, 10, 11) were found in moving the earth, but their position is uncertain. These suggest two burials of the same age. In the corner at the south-west lay a curious mud figure very rudely formed (Pl. VI, 8). It might be supposed to belong to a later age, and as late eye beads (Pl. VII, 31, 32) were found here, a secondary burial seems probable. But the position of this mud figure, in a corner behind the early pottery, seems to show that it also is early. The thickness of the tomb side was not measured, but the door was 12 inches through.

Grave 19. This burial in the cemetery was much broken up, the trunk being entirely wrecked. A few red vases remained in the east end (Pl. X, 5, 10, 11, 36, 38, 66, 67), and lambs' bones in the north-east corner, analogous to those in the corner of no. 5. Only one scarab remained here. The section of the tomb is shown at the end of the plan.

Grave 4. The plan of this is shown below no. 5. The body was complete, but the lower jaw was set upright at right angles to the head. It was a child, as the thigh was only 10 inches long, and the shin 8 inches long, in place of 17 and 14 inches as usual. One scarab lay near the wrist, and the pottery was in front and above the head—two pans (Pl. X, 8, 9) and two jars (X, 63) upon ring-stands (X, 41, 45). This burial was in the town, the only one found there later than the first three.

Grave 16 is not drawn among the plans. The bones were all scattered, and two pans (Pl. X, 10, 12), two jars (X, 68, 69), and a ring-stand (X, 49), lay with the broken skull at the end. The black incised vases were found scattered (Pl. VIII, 36-40). Cemetery.

Grave 17 was a circular pit with only animal bones. In it were four pans (Pl. X, 1), four jars (X, 62), and four ring-stands in a heap (X, 32, 33, 35, 36). Cemetery.

Grave 20 was a disturbed grave, with one black vase (VIII, 41) and one pan (Pl. X, 13), a ring-stand (X, 43), two jars (X, 72, 73), and a cup (X, 24). Cemetery.

Grave 37 was a fine tomb, cut away in later times along the south-west corner, and the body entirely broken up. Only the humeri were left. The section of the arching is shown at the end of the plan. There were four black incised vases of the later style, and a buff one with red lines, Pl. VIII, 48-52. Five scarabs were placed near one humerus, as if the body had faced the south. The positions of all these, and the red pottery (Pl. X, 41, 45; 47, 49), are shown on the plan. The bronze pin was found near the place of the neck, as in grave 2. Between the black pots on the north was a goose's egg, and under it a bead necklace, and a rough scarab, no. 47. The beads were small white discs, probably blue originally, and small black globular beads coloured with manganese. A small slate rubber, 2 inches long, lay under the right humerus. One amethyst bead lay near the legs; probably there had been a string of amethysts taken by the plunderers. The floor of the grave was of brick, as well as the barrel roof.

Grave 1 was a curious deposit in the camp, the first burial that we found. It was a heap of bones stacked closely together; most of them were of animals, but among them I found a piece of human jaw and patella. On the north of the heap lay the dagger, Pl. VI, 5; and two scarabs (4, 5), with an amethyst bead (6), were in the heap of bones. Perhaps this may have been a burial of portions of a man killed at a distance in battle, placed with sacrifices beneath his own dwelling to appease the spirit. The burial of a knife along with the sacrifice at the side of grave 5 should be compared with this. Also the following burials in the cemetery:

Grave 9. A pit 76 inches by 66 contained a large quantity of loose bones, of both oxen and sheep, irregularly thrown together. With these was the broken upper end of a human thigh-bone, and four of the usual red pans.

Grave 17. A circular pit containing entirely animal bones, irregularly heaped together. With them were 4 jars, 4 ring-stands, and 4 pans.

Grave 6 was entirely broken away at the head (plan, Pl. XII). Two pans (X, 14) were placed, one each side of the stomach, and two scarabs (Pl. VII, 40).
53, 55) were on the body between them. These show that this is one of the latest burials of this age. An amethyst scarab (54) lay by the left hand, and a black vase without any incised pattern (57).

Grave 43 is also a late grave, 70 inches by 28. In it were two jars (X, 75, 76), two ring-stands (X, 49, 51), a pan (X, 15), a cup (X, 26), and one buff vase with black pattern (Pl. VIII, 58).

Grave 45 appears from the type to be of a yet later age. The body lay with head to the south. Upon it were two portions of globular jars (Pl. XIV A), and by the head two red jars (Pl. XII A), and the black vase VIII B, 103. Two blocks of basalt were placed by the legs.

The later stages of such pottery are seen in nos. 106 and 107, 108. The latter belong to the XVIIth dynasty, as such were found at Gurob. Of other burials not figured here we may mention of this age---Grave 8, body broken up, head east: 2 pans (X, 10, 11), jar (X, 71), and stand (X, 44), and a fragment of black incised pottery. Grave 16, bones all scattered, head to east: 2 pans (X, 10, 12), 2 jars (X, 68, 69), and a stand (X, 40). Grave 22, no bones left, head probably south-east: pan, jar (X, 64), and stand (X, 42), with one other vase (X, 23). Grave 33, with second interment of a child: the older pans (X, 15) were inverted over the child's skull, and a jar and ring-stand were also left.

16. We may here notice the changes traceable in the red pottery. This class is much less variable than the scarabs and the black pottery, and it is therefore on these classes (already discussed) that we must depend for the history of the red pottery. On Pl. X are shown the forms, classified according to the order of the graves already described. A few singular forms are given on Pl. XIV A. In the pans, 1-17, there is no apparent change; and, as in the prehistoric age, the plain pan seems to have been the most stable type. The bowls and cups, 18-27, are not so common as the other forms, and there are hardly enough examples to show definite changes. The ring-stands are tall at the beginning, as in the XIth dynasty (Denderah, XVIII, 153), but show little variation until they become rather taller at the end, nos. 47, 50, 51. The jars are the only distinctive class. The bottom is rounded at first, as in the XIth dynasty (Dend. XVIII, 162), in graves 2, 497 and 5. Then a pointed form comes in, beginning in 5 and continuing in 19 to the end; while the sides become more parallel. By the time of grave 20 the red tops begin to appear, which are usual in the early XVIIth dynasty; Pl. XII A.

Thus some differences of age can be shown by the red pottery, though not nearly so decisively as by the other objects.

17. Having now described all the burials of Hyksos age, it will be well to refer to the other objects of early period in the order of the plates.

Pl. I. The fragment of a black and white porphyry vase, no. 1, is of the pre-pyramid age, and by the poor hollowing of the interior it is probably of the IIId dynasty. A cup, no. 2, of black and white syenite, and a cup of black porphyry, no. 3, may be also of the IIId dynasty. The bowl of white felsite, no. 4, is of the style and material of the IInd to IVth dynasties. There seems therefore to be fair evidence of some settlement in the region of the later temple as far back as the early historic times.

Of the XIth dynasty are the pieces of rubbing dishes in quartzite sandstone, nos. 5, 6; such are well known at that age (Diopolis Parva, XXX, v. 448). The fragment of the front of a seated figure of the time of Amenemhat III belonged to a "ka prince, chief of the prophets A(meny?)." The incised pottery dishes, nos. 8-10, 14, are well known to belong to this same age at Kahun (Kahun, XIII; Illahun, V), but they are not found in the south of Egypt; and being of more vigorous designs at Yehudiyeh than they are at Kahun, this suggests that they originate in a northern influence. A small group of two beads of blue paste, no. 11, a cylinder of Amenemhat III, "beloved by Sebek of the Fayum," no. 12, and a plain cylinder, no. 13, were found together on the temple site. It is certain therefore that in the XIth dynasty there was here a town, and probably a temple. The granite column may well have belonged to such a temple.

Pl. IV A. The two busts here photographed have been broken from seated figures, such as were dedicated in temples or tombs. They were both found in the temple ground; and they appear to be of the XIth or XIIIth dynasty. The scarabs shown here will be annotated in describing Pls. IX and XI.

Pl. VIII A. The many fragments of fish (59-63) made in black incised pottery show that such figures must have been common. The lobate vases, 64, 65, were both found in the camp; they probably belong to the earlier age of this ware. The fragment 70 was found on the top of the sand bank of the fortification. The bowls 73-5 were from the camp, none such were found in the graves. The flask 84 was found in grave 120, with the types of pottery
given in Pl. X, 8, 36, 63. The lemon-vase, 78, 81, was only found in the camp, and not in graves.

Pl. VIII B (read pottery scale 1 : 2). This is all foreign pottery, 88, 90, 91, black, and 89 red; 92 to 97 are of light red or buff ware. 98 is red with black stripes; it was found with a full length female body, lying with head to east, and wearing copper earrings. But as this burial had cut through and disturbed an earlier burial with jars (Pl. X, 68, 69), and ring-stands (X, 40), it is possible that the vase was also of the earlier period. The red flasks with black stripes, 99-101, and buff with red stripes, are certainly foreign, akin to the Cypriote pottery, but not quite of the same fashion. The little pale drab flasks, 104, 105, are probably of the XVIIIth dynasty, like the black ware 107, 108.

Regarding these foreign fabrics, Mr. J. L. Myres, who is the principal authority on the Cypriote and Eastern Mediterranean pottery, informs me that the black incised ware of these shapes is limited to Egypt, Palestine, and Eastern Cyprus; and it has never been found in the west of Cyprus, Asia Minor, or Greece. We must therefore look on it as probably Syrian in origin. The bowls Pl. VIII A, 73-5, are hitherto unknown. Regarding its date, all examples agree in the pre-Mykenaeae age. Those published with Mykenaeae tombs by MURRAY, *Excavations in Cyprus*, fig. 9, were not found in the tombs, but were loose, and doubtless belong to an earlier denuded cemetery, as in other Cypriote instances. That in GARSTANG, *Arubah*, XVII, tomb 10, was with an ivory wand and alabaster kohl pots of the XIth—XVth dynasty, but mixed with pottery of a later burial of the XVIIIth dynasty. These are the only instances which might seem to be of a later age than that we have here fixed. The painted buff pottery here Mr. Myres looks on as akin to that of Cyprus, but of probably some neighbouring source.

18. Pl. IX. The scarabs are here arranged, so far as practicable, in what appears to be their most probable order of age. The column at the left hand is of those found singly in our excavations, the remainder were all bought from the natives at the place. Nos. 109 to 113 may be purely of the XIIth dynasty. 113 belonged to the "Uratu of the city Sena." 114 is of the age of Apepa I (see NEWBERY, *Scarabs*, XXIV, 34); the inscription must be compared with 115. Possibly we may understand these as belonging to officials of the nesu canal or embankment, one named Met-desher, the other Ankh. 116 is of the well-known king Mernetfera Ay. 124 is of the great king Khyan, whose scarabs are nearly always of fine work, and several are mounted in gold like this; it was found along with a strip of gold in the camp. The symmetrical scarabs, 125-30, come in as early as grave 407. 143 is one of the king Sekhenu, whose scarabs are often found. 144 is of Apepa I, and ruder than most of his; I bought it from men who had just found it in the fields north of the camp. The scarabs 152 to 161 seem to belong to the age of grave 5. Nos. 162 to 173 are like those of grave 37. It should be noted that on Pl. VIII, nos. 44 and 46 show the beginning of two parallel side lines with cross strokes at right angles. The two side lines begin under Khyan and Yaqeb-her, but no cross strokes appear on their scarabs. It seems then that those kings precede grave 37; and so 162 to 173 are of a later time contemporary with Sekhenu, Ymu, Yaqeb, and others whose scarabs are of the ruder type.

Pl. XI; here F, or a grave number, is placed against those found in the work. Nos. 190-1 may be before or after the XVIIIth dynasty. 192 is a bright green scarab of Tahutmes III, found in the small pottery cist (Pl. XIV A, XV) with a cup, but no bones. 193 is of the age of Tahutmes III (see Ilakhun, XXVI, 13). 195 is probably of the reign of Amenhotep II. 196 is silver, the reign is not certain. 197-8 are of Amenhotep III; the latter is of gold (bought), but as likely as not it is modern, as it resembles others that I know to be forgeries. 199-201, 203 are probably posthumous uses of the name of Tahutmes III. 202 is an interesting jar-handle stamp, naming Sety I, "Menmaatra builder of Thebes," doubtless referring to the great hall of Karnak. 204-5 are of Sety I. 206-8 are of Ramessu II, the latter showing the king sacrificing a gazelle to Ptah. 209 has a very interesting figure of Sutekh, with the horned cap and long streamer (see PETRIE, *Researches in Sinai*, fig. 134), winged like Baal-zebub of Ekron, and standing on a lion in the manner of a Syrian god. 210-12 are figures of a throned king, probably rude copies of Ramessu II. 213 is the type of Ramessu II (?) between Set and Horus, here modified to two Horus figures. 216 is a plaster cap of a jar sealed by Ramessu III, probably from one of the wine-jars of his palace here. 218 is a clay mould, also of Ramessu III. 220 is probably a debased copy of one of Siptah. 221 is of Ramessu VI. 227 is of blue paste, with Ptah and Sekhert. 230 is probably of the XXVth dynasty. 236 bears a monkey
eating a bunch of grapes, in relief on the back. 238, bearing the name of Pedu-ast, was found with the iron spear photographed in Pl. XIX.D. 241 is a blundered copy of the name of Shabataka, XXVth dynasty. 247 may be modern (bought). 248 seems to be of the same name as another with Abra (PETRIE, Hist. Scarabs, 2141). 251 is a gnostic charm in dark brown steatite; the back bears curious imitations of cartouches of Ramessu II and Merenptah, doubtless copied from large monuments; this is one of the very rare cases of cartouches being noticed after their meaning was forgotten.

CHAPTER III
THE LATER REMAINS

19. The XVIIIth dynasty has left many graves in the Gezireh cemetery, which carry on the customs of the earlier age in a modified form. The large brick vaulted grave has disappeared; and instead we find the small brick grave with pottery inside, grave 31 (Pl. XII), or shrunk so that the pottery is stacked outside, grave 41; or the open sand graves, 23 and 34 (Pl. XII); or a pot coffin with the pottery placed outside it, as in the grave of Men (Pls. XIV, XV), and graves 24 and 30 (both on Pl. XII); lastly there are jar-burials of children probably beginning as early as XVIIIth or XIXth dynasty. The plans already referred to will show the arrangement of the pottery in the graves. The variations which can be traced in the pottery have been taken into account in the classifying and dating of it in the plates here given, and we may best follow this order in considering it.

Pl. XII A. The pottery with red edges, or black edges, is well known in Upper Egypt, always of the early XVIIIth dynasty period. On referring to the Maket tomb (Ilahun, XXVI—VII), it will be seen that there is no example of this edging; and subsequent discoveries show that this tomb is entirely of the date of the scarabs in it, Tahutmes III. This edged pottery may therefore be dated to about the first four reigns of the XVIIIth dynasty, though it touches the reign of Tahutmes III (see GARSTANG, Arabah, XXVIII, E. 259, dated by a scarab). The large group of contemporary pottery, grave 54, is useful for showing relative ages.

Pl. XII B. This whole group was found in a basket, covered by a mat, buried in clean sand in the cemetery. The two ivory arms were placed one on the other. The blue glazed bust should be compared with the later mould (PETRIE, Tell el Amarna, XVII, 278) and other instances in stone. This group is probably of about the reign of Tahutmes III.

Pl. XII C. Here we reach the well-dated pottery of Tahutmes III. The foreign bottles imitating leather-ware are of the early type, showing the ridges of stitching. A puzzling case is that of the bowl found in grave 23: it is of Ptolemaic style, but the other three pots of this grave are all of the Tahutmes age. The skeleton of a man lay at full length, on the back, head to east; the leather-ware flask was at the left of the skull, the bowl inverted at the left of the jaw, the little jug at the side of the left humerus. We must suppose that the burial is late, and that the pottery was robbed from an earlier tomb. The pottery coffin face also seems certainly late in style.

Pl. XII D. Here some of the pottery is from the same grave as the foreign flasks in the previous plate, grave 24. The burial was in a pottery coffin; one flask was inside at the west, head end; the two long jars were lying at the south of the coffin, the rest of the pottery along the north, as shown on Pl. XII. The blue glazed eye is probably later; it may have been loose in the filling of the grave. I did not mark it in my notes where every vase is entered. The strips of ivory, 411, were from a broken-up toilet box in the painted pottery coffin of Men, Pl. XIV. The long jars of Graves 24, 100, 404, 406, are all of the type of Tahutmes III, as in the Maket tomb, fig. 42.

The changes in the forms of the jars should be compared. On Pl. X they are at first swelling to the base and rounded below, next somewhat pointed below. On Pl. XII A they are moderately rounded below. On Pl. XII D they are larger, pointed below and swelling out from the neck. On Pl. XIII, in grave 403, this type is associated with others flattened below.

Pl. XIII. The pottery here is probably of about the age of Amenhotep II. The foreign flask, grave 55, is stumpy and awkward, and in grave 414 bulging and degraded. The jars have two or three incised lines around the necks, never found under Tahutmes III, but under his successors, Amenhotep II (Six Temples, V, 1) and Tahutmes IV (S. T. VII, 12). The little repoussé bronze ornament is akin to similar rosettes of Amenhotep II (S. T. III, 17).

Pl. XIV. This painted pottery coffin was found in the cemetery, with the head to the north-west. On the right side stood a jar, the top broken; on the left a jar like that from grave 404 (Pl. XII D) with black bands. This must be assigned to the time
of Tahutmes III. The top of the coffin had been smashed in by plunderers, and dozens of pieces lay in the sand within it. I collected these entirely, and built up the remains as shewn. The photographs of parts of it are in Pl. XV. At each side of the head are figures, one probably of Isis, the other of Nebhat, here written Neb-hat; Isis is holding the shenmu rings, and Nebhat is pouring out vases of water. Then follows the speech of Nebhat and of Osiris, the latter blundered and continuing "for the ka of Men, mut na kheru." After this come blundered speeches of the four genii and of Anubis, whose figures are shown. At the foot and down the middle band are funeral formulae for the deceased Men. On the end is a figure of Isis given on Pl. XIV A. It will be seen that some of the drawings have a straight red line through the length of the figure. These lines give the clue to the Egyptian system of posing a figure truly upright. The points which should fall on a vertical line were (1) the front of the wig lappet, (2) the middle of the shoulders, (3) the middle of the trunk, (4) the front of the backward knee, (5) the middle between the backs of the two heels. Similar vertical lines may be seen in drawings in the Tombs of the Kings.

Pl. XIV A. Beside the base of the painted coffin there are here three views of a small pottery cist found in the cemetery, and see also the photograph on Pl. XV. On the east side of it stood a jar (XII A, no. 413), on the west a pan, much like the arrangement by a coffin. But on removing the lid, and carefully scraping out the sand in thin layers by hand, I found nothing inside except a small cup (XII A, 413) and a fine scarab of Tahutmes III, Pl. XI, 192. It cannot be supposed that bones would entirely dissolve where protected in a cist, when they remain distinct in the open sand; so the purpose of this curious cerimonial cist is yet unknown.

21. Pl. XV. The kneeling figure will be described later on, under the XXVIth dynasty. The coffin and cist have been noticed already. The corn-grinders are usual in Egyptian sites, but have perhaps never been illustrated before.

Pl. XVI. The inscription on the back of the granite dyad of Ramessu II and Ra has been described in the history of the site, Section 10. The view of the inscription, as it lies in a hole, is given on Pl. XVI A. The granite column, which probably was part of a temple of the XIth dynasty, had an inscription added by Merenptah; the photograph of it is also on the next plate.

Pl. XVI A. Beside the above-named subjects there are here the fragments of the beautiful glazed figure tiles of Ramessu III, the last remains of the wreck of his palace at this place. The subjects are figures of foreign captives, in decorated dresses which are of much interest; pieces of a frieze of rekhyt birds; pieces of cartouches; and some alabaster inlays. It would be most desirable to have a complete photographic publication in colour of all the unique work of this kind now scattered in Cairo, London, and other museums.

Pl. XVII. The larger pieces here are fragments of great jars painted with a buff ground, and decorated in dark red and black. These were found amid the rubbish of the palace of Ramessu III, and this suggests that they were imported there in his reign, or shortly after. At the bottom, figs. 18-22, are pieces of rough red pottery with incised patterns imitating network.

Pl. XVIII A. From the XIXth to about the XXIIIrd dynasty very large jars were in use. They were doubtless made for domestic purposes, but we have recovered them from their use as coffins for infants in the cemetery. Probably no. 6 is the earliest of them, perhaps of the XIXth dynasty; 2, 3, 5, 7 are supposed to be of the XXth to XXIIInd dynasties, and no. 1 probably later. The coffin no. 4 shows the degraded form copied from the painted coffins of the XVIIIth dynasty.

21. We now reach the later class of burials of the XXIIInd to XXVIIth dynasties; and though the objects are all well known, yet as these burials were the most numerous in the cemetery, the series may enable us to trace their order, and to place these common amulets in a more definite position. They are here placed in the following classes, which seem clearly to succeed each other:—(1) The groups without uza eyes, and with inscribed amulets, about the XXth to XXIIInd dynasties, Pl. XVIII, top. (2) The smooth, well-made, uza eyes with black brows, Pl. XVIII, lower part. (3) The badly made uza eyes, with which appear glass beads with blue spots surrounded by brown lines in white, and the beginning of incised uza eyes, Pl. XIX. (4) The predominance of incised uza eyes, and the small bronze bells with bracelets; the glass beads degrading to mere spots in a small bead, without lines around, see Pl. XIX A. (5) The rise of quadruple eye beads, and of coloured glass beads as Pl. XIX B in group F, next to E, and the ram's head in 301. (6) The degraded quadruple eye beads framed in a square or circle, and very degraded.
figures of gods. It does not seem possible to invert the order of any of these classes, though very likely there was a gradual change and overlapping from one class to another. Unfortunately it is so rarely that any cartouche scarabs are found with such later burials that we are at a loss to state the exact periods of the classes. But on reaching the period of the pottery which is well dated to the XXVllth dynasty (at Deffenne), as on Pl. XX A, the whole of the small amulets and eyes have disappeared, and none are found with the alabastra, which also are of the XXVllth dynasty (group 320, Pl. XX A). Hence it seems that all these amulets must be earlier than the XXVllth dynasty. We now turn to note a few details of these classes.

Pl. XVIII. The groups marked by numbers were mostly recorded, but those with letters were merely found loose, usually in a child's burial, and were picked out by the diggers. Grave 101, the scarab reads Khet neb nefer, "all good things"; the square plaques are rude copies of those of Tahutmes III. From having a jar of the late XVIIIth dynasty type it is possible that this group is of the XIXth dynasty. Grave 307 seems to be about the XXIIInd dynasty by the style of the frog amulet. The small bronze figure and earring in grave 105 seem to be not later than the XXIIInd dynasty by the disc of black and yellow glass and the little rosette; this appears to be the earliest of the uza eyes, and of the bronze bracelets.

Pl. XIX. The earlier of the glass spot beads are associated with these eyes, in graves 66, 71, 307 and A. In grave 310 the figure coffin is seen in a simplified stage. The style of this might even be as early as the XXth dynasty (see Mound of the Jews, pls. 13, 14), but the glass beads and other objects seem to be later than that. In group C we have an indication of the XXIIIrd dynasty, or later, in the name Pedu-ast on a scarab, associated with a fine spot bead. In group E another such bead with a rude aegis of Bast points to the same date.

Pl. XIX A. Here in group A the figure of Nefertum is probably of the XXIIIrd dynasty, as he rose into fashion about then. The jar in grave 108 is inclining toward the style of the XXVllth dynasty. The little bells which come in at this time were probably worn for amulets, as in Italy at present.

Pl. XIX B. The cats in grave 306 show the Bubastite influence of the XXIIInd—XXIIIrd dynasties. The crocodile in group D is the earliest forerunner of the common crocodile amulet in the XXVllth dynasty.

Pl. XIX C. Here the style of the figures has become as bad as any that are known, and the eyes are almost unrecognisable, as in group L. The rude eye with raised lines of brown slip in group O is more akin to the Roman figures with raised detail in yellow.

22. On reaching the XXVIth dynasty we should here notice the kneeling figure of the admiral Hor-Psamthek, which was found in the temple. It is of yellow quartzite sandstone, and unfortunately the upper part is lost. Perhaps some bust in a museum will prove to belong to it; and any possible fit should be tried by comparison with the back pier in Pl. XX. The photographs in Pl. XV. will show the general character, and the figure of Bast in the shrine. This evidence that Bast was the goddess of the place, connects it with the lion-city, Leontopolis, where Josephus states that Bubastis Agria was worshipped. Down the edge of the front of the shrine is the inscription . . . mer suten akhu ne aha em mu uaz ur, Hor, ran f nefer Psamthek— "Chief of the royal fighting ships in the great green sea, Hor, whose good name is Psamthek." On the opposite edge is . . . ma ar neb per Kamep'aua— " . . . ma born of the heiress Ra'mep'aua." Along the top of the base is, kherp khaatu Haebu, Hor, ran f nefer Psamthek— "Commander of the lands of the Hanebu (Greeks), Hor, whose good name is Psamthek." Down the back is, sah, her ab ne neb taui Hor Menkh'ab, benen er neb'ar her . . . ? nezem f—" (Acceptable in the) council chamber in the heart of the lord of both lands Hor Menkh'ab, sweeter than all upon his throne of sweet wood"; and, udu ne neter nefer Ranefer'en, kherp khaatu Haebu (Hor) ran f Psamthek— " (Doing the) commands of the good god Nefer'ab'ra (Psamthek II), commander of the lands of the Hanebu Hor, his name is Psamthek." Around the base is, to the right, Er'pa ha, baty khetmu, | semer uati ne mer, meb ab ne suten em khaatu Haebu, rekht ne neb taui ager Hor ran f nefer Psamthek—"The peer, the royal seal-bearer, the chiefly companion in love, satisfying the heart of the king in the lands of the Greeks; known to the lord of both lands was his excellency, Hor, his good name is Psamthek." Around the base to the left, Er'pa ha, baty khetmu, | semer uati ne mer, met er ab f her sekher du em her f, senu ab ne neb f em uazt neb ne khast, Hor—"The peer, the royal seal-bearer, the chiefly companion in love, direct of heart is his plans that were entrusted to him, widening the heart of his lord in all his expeditions abroad, Hor."

I am indebted to Dr. Walker for clearing some
difficulties in this inscription. The sign rendered as "throne" is clearly an animal's skin; this may be used for the seat, or (as Miss Murray suggests) may be the ner throne with stroke below, misread by the scribe and turned. The sign read as Ra, in Ranepeau, appears to be ra in the name oval, somewhat misengraved. This official was thus the principal personage for dealing with the Greeks in this reign, 594-588 B.C., as Admiral of the Mediterranean fleet and Governor of Cyprus.

23. The graves of the XXVIth dynasty had better be noticed in the order of the objects on the plates.

Grave 320, Pl. XX I A. The style of the alabastron shows the age of this grave, and serves to date the mirror, and the four-handled slate dish.

Grave 321 was perhaps of a foreigner, judging by the fibula, and the little steatite pendant.

Grave 18 has a similar fibula, but not ornamented. The body was in a narrow brick tomb of the size of a coffin; it lay at full length, on the back, with head to the east. The fibula was on the right breast; the alabastron and bronze kohl-stick were on the right side of the head; the ring upon the finger. The cup was placed upon the brick coffin. The body was of a female; thigh 17 8, humerus 12 7 inches: the jaw had only one molar on each side, and was peculiarly wide and short, being 2 4 inches wide and only 1 2 from back to front—in fact, a semicircle.

Below 321 is a fragment of a thick early Greek bowl, as in Nautilus, i, IV, 2, with part of a Karian inscription, read by Prof. Sayce as l or see a. I picked this up in the north-east corner of the camp; and though I completely turned over all the heaps of potsherds for some yards around not another scrap of such pottery could be found.

Grave 410 was a brick tomb, body on the back, head south. The jars were placed at the left humerus and right of the pelvis. There was a network of coloured glazed beads on the body; and many such were found on other bodies in this cemetery, but all too much broken up in the earth for the patterns to be traceable.

Grave 44 was a brick tomb, 81 by 40 inches, the body entirely broken up, but many beads in the earth. The head was probably east, and so the jar would be on the right of the head, and the saucer in the corner to the left.

Below is a small bronze chisel; a group of bracelets, pendants, earrings, and red glazed beads found together; and at the right a bronze point from the butt of a spear.

Pl. XXI. Two green glazed bottles, nos. 1, 3, were found with a scarab, no. 2, which has the name of Psamthek blundered. In other graves were found the two other bottles, 4 and 5. The iron strigil 8 was found with a fragment of a similar bottle no. 7. These bottles were made for new year presents from maid-servants to their masters. The inscriptions are, on 3, "Tahuti open a good year for her lord," "Horus the good give life for her lord." On 4, "Amen open a good year for her lord," "Ptah and Sekhet open a good year for her lord." On 5, "Ptah and Sekhet "open a good year for her lord."

Pl. XXI A. The pottery here is probably Ptolemaic from i to 45, and Roman from 47 to 56. The iron bracelets, 57, 58, are Roman; as also the necklace of blue, green and yellow glass beads, and earrings, 59, and the amber necklace 60. The glass bottle 61 is probably Arabic.

24. Pl. XX I B. The rough stone implements of various kinds have scarcely ever been published, and it seemed well to give some examples of them. 1 to 5 are stone caps for holding a drill-head in working, 6 to 12 are probably all loom weights. The reels 27-34 are common about the XIXth dynasty, and were probably used in net-making. The fragment of a cartouche, 37, cannot be identified, as most of the Ptolemies end with "living forever, loved by Ptah.

38 is an iron hoe. 39 are two anklets of massive copper, also shown in Pl. XIX D. These were on the ankles of a female, aged about 25; the skull very thin and moderately prognathous. The whole length was 58 inches, thigh 14 8 long, humerus 11, ulna 7 inches long. The body was on the back, with arms at the sides, head to the west. It lay in a shallow grave, cut 9 to 12 inches into the soft marly rock, just beneath the houses in the gezireh cemetery.

A strange burial of animal bones thrown together was in a pit in the cemetery; I counted 46 ox teeth, and five copper rings of the form in fig. 40. Perhaps these were the nose-rings of the oxen.

CHAPTER IV

THE TEMPLE OF ONIAS

25. The curious episode of the return of the Jews to Egypt, as a refuge from the tyranny of Antiochus Epiphanes, and their establishment of a new centre of worship there at about 154 B.C., is well known from the accounts preserved by Josephus. The site of this new Temple had so far not been identified,
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although it was generally recognised as having been about Tell el Yehudiyeh. The treatment of the statement of Josephus, crediting him with having “mixed together and applied to one settlement circumstances which refer to several Jewish establishments” (Naville, Mound of the Jew, p. 20) is not generally conducive to settling questions. In this, and other cases, when we ascertain the facts, it is seen that we do best to stick closely to our authorities. As the passages of Josephus can easily be referred to at length, it will be best here to give a summary of them, and then to discuss the data which they afford.

The earlier account in the Wars of the Jews (VII, x, 3, 4) states that the whole region of the Jewish settlements on the east of the Delta was called Oneion, from Onias, see also Ant. XIV, viii, 1, where a large district is implied. It is also said that this Onias fled from Antiochus, was well received by Ptolemy (Philometor), and offered to form a corps of Jewish mercenaries, if a new centre of worship for the community were granted to him. Onias appears as the general of Ptolemy, in contra Apion, ii, 5. So Ptolemy gave him a place 180 stadia from Memphis, in “the nome of Heliopolis, where Onias built a fortress and a temple, not like to that at Jerusalem, but such as resembled a tower. He built it of large stones to the height of 60 cubits.” The altar was correctly made, but a hanging lamp of gold was substituted for the seven-branched candlestick. “The entire temple was encompassed with a wall of burnt brick, though it had gates of stone.” Lupus, the Prefect of Egypt, in 71 a.D., closed the temple and took away some of the gifts. Paulinus, his successor, stripped the place, shut up the gates, and made it entirely inaccessible. From the building to the closing of the temple was 343 years. (This is certainly incorrect.) In the Antiquities of the Jews (XIII, iii) are given two letters, that from Onias to Ptolemy, and the reply. Whether these are original, altered, or invented, does not much affect the indications which they give about the place, though they are generally considered to have been composed by Josephus. Onias is said to have come to Leontopolis, and to have found a fit place in a fortress that is called from Bubastis of the fields (the goddess Sekhet written with the field sign, N. M. J. 23); it was full of materials of several sorts. He asked leave to purify this place, which belonged to no master, and was fallen down, and to build there a temple after the pattern of that in Jerusalem, and of the same dimensions. Ptolemy granted him the fallen temple at Leontopolis in the nome of Heliopolis, named from Bubastis of the fields. So Onias took it and built a temple and altar, like that at Jerusalem, but smaller and poorer. Such are the essentials of the accounts in Josephus.

26. First let us see how far these indications can be followed. The site was Leontopolis where a form of Bast was worshipped, in the Heliopolite nome, and 180 stadia from Memphis; and a high mass of ruin should remain from a structure 60 cubits high. The distance from Memphis would preclude our looking very much beyond Heliopolis itself, certainly not as far as Belbeys. Moreover Belbeys belonged to the nome of Bubastis (N. M. J. 22). There is no centre for the worship of Bast between Belbeys and Memphis, except Yehudiye, where the figure of admiral Hor holding the shrine of Bast has now been found. And this would agree with the name Leontopolis, which is otherwise unknown south of the city of Bubastis. On considering what the stadia may more exactly mean, we must look to some Egyptian measure. The nearest to the Greek stadion is the itinerary length of 500 cubits, such as is marked off by a row of way-marks along the Fayum road (Season in Egypt, p. 35): this was a third longer than the stadion, but distances stated in it would easily be called stadia in the loose use of itinerary measures which prevailed. From Tell el Yehudiye to the north gate of Memphis would be about 186 of these stadia, and so we now see that this site will completely agree with the distance which is stated. Here also there is the greatest mound of any for a day's journey around—a mound which was all thrown up at one time, and which indicates that the buildings on it rose to a height of at least 59 cubits from the plain below, in one great face of walling. The locality therefore agrees to all the indications left to us, and no other place can possibly agree so closely. Moreover the cemetery with Jewish tombstones, found here by Dr. Naville, is proof that a wealthy Jewish community occupied the place; and finding now the name of Abram in the builders' accounts shows that Jews were concerned in building on the great mound.

These essentials being settled, we are at liberty to look at details. The place of Onias was built with stone, and he built a tower-like temple of large stones to a height of 60 cubits. The greatest supply of material for such masonry lay to hand in the immense stone wall of the Hyksos camp, which would supply all the masonry that Onias could require, and which was close to the new settlement,
see Pl. II. There was a temple fallen to ruin at Leontopolis, and we know that a temple existed in this camp in the XIIth, XIXth, and XXVth dynasties. Such temples were only built in nome capitals and important cities, and we do not know of any other between Heliopolis and Belbeys. Though the temple of Onias was built of large stones, like a tower to a height of 60 cubits, yet it is said that the entire temple was encompassed with a wall of burnt brick. This brick probably refers to the northern side and the inner wall round the crest of the temple hill. Burnt brick was unknown for building in Egypt before Roman times; but the northern wall has been burnt in a conflagration, probably in the civil war when the place was besieged, which must have been in Ptolemaic times. Hence may have arisen the statement in the time of Josephus that the wall was of burnt brick. Onias asked to be allowed to build a temple like that in Jerusalem, and of the same dimensions; and he is stated to have actually built it like that at Jerusalem, but smaller and poorer. His attainments may very likely not have come up to his expectations. The temple is said further to have not been like that at Jerusalem because it was like a tower. There is no difficulty about these statements when read in view of the place itself. The plan of the whole hill is strikingly modelled on that of Jerusalem; the temple had inner and outer courts, like that of Zion, but it was smaller and poorer in size; and while the hill of Jerusalem was natural, and the temple was built on the top of the rock, here the artificial hill had to be revetted with a great stone wall, which made the temple like a tower 60 cubits high, as seen in the model, Pl. XXIV. There is not any point of difficulty or discrepancy left in the accounts of Josephus, so soon as we find the true site.

27. Outer Fortification. Having shown that no other site can fulfil the conditions, and that this site not only fulfils all the requirements but also reconciles apparent contradictions, we may now enter on the details of the structure. First of all the actual remains of the buildings should be stated. On the north side of the site (see Pl. XXII) there is the lower part of a massive brick retaining-wall along the whole length. It is from 180 to 220 inches thick; and on the inner side it has a slope of 58°, the courses being laid tilted to correspond. This inside slope was covered by the filling in of marl and sand forming the northern edge of the great mound. At the west end this wall ended flat, where the stone face of the gateways joined it. The other side of the gateway can only be projected from the fragments shown in Pl. XXII, as drawn in Pl. XXIII. It appears that the whole breadth at the gateway was 1780 inches, or 148 feet. The length of the north wall was 716 feet up to the turn of the bastion. The north-east corner (see inset in Pl. XXII) is entirely destroyed by a road, a light railway, and cultivation of fields. But as the north wall turns outward, it must have turned east again before long, as the width between that and the east wall is not very great. This leads us to an end very nearly symmetrical with the southern bastion of the east face, the great stairway being the axis of the face. It is therefore only reasonable to restore this as symmetrical on the eastern front.

On the east side there remains a trench filled with fallen top-rubbish at the northern part of it; near the stairway some stones of a wall remain in place. At the stairway itself is a pier of brick, the south side of which is in line with the face now destroyed, and which was therefore built against the stone wall. South of the stairway there is a long distance with a face of sand filling, where the wall is destroyed. Beyond that is a large piece of the great wall in good condition, see photographs, Pl. XXV, and elevation, Pl. XXVI. The base of the wall is at 106 inches level, the present top 231, and the original sand mound inside probably 300; with about 80 inches of walling this would be 380 level, or 23 feet high along the front, which was 688 feet long between the corner towers. The detail of this wall will be noted further on. Beyond this are two more parts where the stones of lower courses remain in place. Then the direct line turns at right angles, where a mass of marl and sand projects forward. Round this mass is a brick foundation on the north, one stone left on the east, and three or four stones on the south. The southern end wall has been less deep than elsewhere, and recent digging has removed all trace, excepting a shallow trench in the black earth filled with sand, which is fixed on the plan.

The western side can only show a single piece of brickwork. At the south end of it is another trench in the black earth filled with sand, marking the foundation. Then at six places along the west side there can be traced a flat face to the broken mass of marl and sand; one place has a short piece of brickwork against it still; all six places are in the line of a smooth curve, as shown on the plan. This is then the plane of the inner face of the great brick revetment-wall, which upheld the great mound, until
stripped away in modern times (see Pl. XXIV, west face). This revetment is 247 ins. thick up to the core, where it exists south of the entrance; and as the higher wall cannot have been thinner, we must take this as a minimum for the west face.

28. Formation of the Mound. The mound is based on a shallow bed of earth derived from brick ruins; the earlier town had evidently spread out here, and had thus left a few feet of earth with potsherds in it. This is highest opposite to the entrance to the Hyksos camp; it is seen all along the west side, above the present water-level, but it was not found along the north and east sides, perhaps because we did not dig below the foundation. This rise of ground was, however, immaterial in view of the great elevation which was demanded. The position was doubtless chosen as being just outside of the heathen temple site, yet as close as possible to the great stone wall which should supply all the masonry, see Pl. II.

The mound is formed of varied earth, but the pieces of amphorae of the 11th century B.C. found in it are exactly alike at the base and at the top, showing that it was all thrown up at one time. The date of occupation is given by the coins found on the top, which were all small Ptolemaic copper with two eagles apparently of Ptolemy Soter II, beginning 117 B.C. The date of Onias is placed a generation earlier, at 154 B.C. The widely spread beds of earth that run across the area, the sloping stratification of the tip-heaps by which the mass was accumulated, the absence of town rubbish, and the use of clean sand in many parts, all show that the whole elevation was due to intentional construction, and not to accidental accumulation. In this respect it differs from all other mounds of such a size that I have seen in Egypt. It is unique, for an entirely different system was followed by the Egyptians; they constructed their high fortresses with a great cellular substructure of brickwork, as at Pithom, Daphne, and Naukratis.

The northern and lower part of the western sides show large masses of brown marl, up to one or two cubic feet in size, loosely tumbled together, with sand to fill up the interstices. Here and there a scraping of town ruin can be seen with pieces of pottery in it, but such sources form but a small fraction of the whole. On the eastern side and south end the material is white limey concretion of sand, in similar lumps with loose sand between. On the top (see West Face, Pl. XXIV) is a deep bed of sand, with enough lime in it to compact the whole, so that it never runs loose, but will stand in vertical faces, when the outer surface falls away by undermining.

In the base of the mound are found cylinders of pottery containing burnt offerings. Such are exposed to view at intervals along the whole of the west side, and were also found at the east end of the north side. One complete cylinder was measured as 23 to 25 inches across inside, and 29 inches high. The forms of the cylinders are shown in the section Pl. XXVII, and the general appearance in the photograph Pl. XXIV. I cleared out some of the cylinders, and always found a bed of white ashes of wood one to three inches thick; bones of lambs lay upon the ashes, usually burnt, sometimes unburnt. Pieces of pottery are sometimes included, and in one case there was the bowl which had been used in the sacrificial feast, shown on the left in Pl. XXVII. The cylinders had no lids, but were filled with the lumps of marl, loosely fallen in when the ground was heaped over, and sometimes burnt red below. In some cases the cylinder had been sunk in the ground before the fire was burnt in it, as the earth touching the outside was reddened by heat for an inch or so in thickness. In other cases the cylinder was left visible, as it was carefully bricked around, and the brickling was mud-plastered by hand quite smoothly so as to cover all the joints; this plastering was picked away by me in order to make the bricks visible, before taking the upper photograph of the cylinder on Pl. XXIV. After removing the bricks the lower photograph was taken. These cylinders were grouped together, and in these views part of the inside of a cylinder may be seen on either side of the perfect one. Mr. Griffith in 1887 saw a double row of the cylinders together, and these had "a base formed of two or three small slabs of limestone or bricks." We must then picture to ourselves the great dedication ceremony of the site. All over the area were groups of these offering pits, some sunk in the ground, others standing up, bricked around. Probably each group belonged to a tribe, and each pit to one family who had "a lamb for an house" (Ex. xii, 3), as in the Passover feast. Assembled from all the Diaspora in Egypt, to the founding of the New Jerusalem, each family lit its fire, probably cooked and ate the sacrificial lamb "roast with fire," and then the bones, "that which remained of it, they burnt with fire." Lastly the fires were smothered by casting in earth; this was a form of the lamp and bowl burial, usual in Palestine under new buildings, whereby the flame was extinguished as the life of a child had been extinguished in the earlier infant-sacrifice at a foundation.
29. Approaches to the Temple. There were two approaches leading up to the Temple site. One ran through the area of three or four acres, which was certainly covered with houses (Pls. XXII, XXIII); heaps of potsherds still lie about this ground, though the natives have carried away every fragment of brickwork. The upper part of the approach from the town still remains for about thirty feet length, and 10 feet 8 inches width. On the upper end of it are two blocks of nummulitic limestone, greatly polished by the tread of feet, which have evidently been part of the threshold of the Temple.

The other approach was a great stairway which led up the eastern slope from the plain, see the views Pl. XXV. This stair rested on two brick walls 46 inches thick, between which was a space 79 inches wide filled with sand. Thus, over all, the way was in the middle part 17½ at base, and 170 at top; and at the upper end 175 inches wide at the base. It formed a high wall running up the slope of the hill, plastered white on both sides. The highest part of the ruin is 131 inches, shown in the first view Pl. XXV. At this point there is no trace of the mass of brick which must have formed the basis of the steps; hence we must add at least 30 inches for the actual height of the steps, making 160 inches above the hill slope. A parapet must have existed along the sides, at least 40 inches high, and therefore the side wall must have been at least 200 inches, or 17 feet, above the ground.

This great stairway ceased at the stone wall, which ran along the face unbroken. A large pier of brickwork remains on the outside of the wall line, the same width as the side wall of the stair, 46 inches, and 103 inches out from the wall face. This was entirely burnt by a great conflagration, which suggests that there was only a wooden structure to carry the stairway outside of the great wall. This stair is restored as a block without details in the model, Pl. XXIV, as the arrangement of it is uncertain.

The sides of the stairway were plastered three times. After the second coat the ground-level was raised 47 inches by heaping more sand on the mound; this protected the plastering below, as may be seen where it is still preserved white in the first view, Pl. XXV. The new sand bed is quite distinct at the base of the later ruins which overlie it. The stairway has also been repaired, as the upper triangular piece of the brick wall may be seen in Pl. XXV to be different in character from the older wall below.

This stairway was not only the main feature of the eastern side, but it agreed with the direction of the approach to the place across the plain, see inset on Pl. XXII. In the view of the north side of the stair, Pl. XXV, will be seen a long clear line of ground amid the ruins on the plain. This was the old roadway, the houses of the town being all laid out square with it; and as it was clear of obstruction it has continued to be used to this day. It led out to the desert, where a modern village may be seen in the distance; and the Jewish cemetery was excavated at the desert edge, a little to the right of this. This road was, then, the approach to the cemetery, and the way to the eastern desert and Syria. The opposite view is shown at the base of Pl. XXIV, which is taken from this roadway; the road appears smooth between the ruins, leading straight to the great stair, which can be seen on the mound by the trenches which we cleared up each side of it, below the letters D, E.

The slope of the great stair carried upward (at its minimum height as stated) produces the result that its top end was at least at 990 inches level, and this gives the minimum height of the platform which has now disappeared. The foot of the wall being at 106 level, the platform was 74 feet above the plain.

30. The Temple. On the top level there are various portions of the basements of the walls yet remaining, as on Pl. XXII, sufficient to show the form of the buildings as restored on Pl. XXIII.

The outer enclosure wall, along the east side of the platform, is very broad in its foundation. The base level varies from 775 inches at inner edge to 744 on outer edge. A small piece of it, which turns diagonally, at the south end is at 784 at inner edge, and 768 further out, but not reaching now to the outer edge; by the levels this was evidently all one with the larger piece. Further to the north this outer enclosure did not reach as far as the great stairway, for the white plaster is continued on that to the upper end without interruption. The wall therefore turned to the west, and we cannot doubt that it turned along the north front of the temple enclosure. To what point this ran after passing the axis is not certain; it may have joined the tower, or may have run separate from that to join the western wall.

The outer court had a thick basement to the walls; but we cannot suppose that the whole wall was continued upwards of this thickness, or it would be disproportionate to the width of the court. Probably the brick basement of 8 feet wide was required to give a firm footing on the artificial sand mound, for a wall about twenty inches thick. If we allow
10 inches footing outside of the wall (as is the case in the temple) the interior of the outer court would be about 32 feet wide at the front and 27 feet at the back. The length of it would be about 44 feet. That this court was the principal feature seen on reaching the top of the mound, is shown by the ascent from the town having the same axis as the court, within a small variation of only 14 inches.

The division between the two courts is shown by a trench in the sand which is filled up with rubbish, apparently where a stone wall has been extracted. This trench is 36 inches wide. The interior of the inner court had a breadth of 27 feet in front and 21 feet at the back, with a length inside of 63 feet. It is probable that these courts were of brickwork stuccoed. A great quantity of pieces of stucco lay about the ruins here; it is hard, white, and smoothly faced, with a black dado and a line of red as a border to the white.

At the end of these open courts we find a mass of brick foundation; this is solid, with the exception of a narrow space of a foot up the axis of it. It measures, at the smallest dimensions above the footing, 201 inches wide and 658 inches long. This is very nearly the proportion of Solomon's Temple, 20 by 70 cubits, that we are justified in supposing that the measures had the same relation. If so, though the amount of the footing of the brick basement outside of the stone wall is now unknown, yet if it were alike all round the difference of the two dimensions must be 50 of the units employed. This difference is 457 inches, yielding a unit of 9 1/4 inches. Now such a unit is so very closely half a Greek cubit, 9 1/2 inches, that we are justified in taking the original dimensions of the temple here to have been, in Greek cubits, half of the numbers used for Solomon's temple—that is to say, 10 by 35 cubits. This would be 182 inches by 638 inches; leaving a footing of 10 inches all round the stone walls. Herod in his address to the Jews on his rebuilding of the temple of Jerusalem (Ant. J. XV, xi, 1) dwells on the fact that the temple of Zerubabel was much lower than Solomon's, and that its measures were determined by Cyrus and Darius, as an excuse for the Jews not having been able "to follow the original model." This suggests, what is indeed most likely, that Zerubabel at the return of the exiles in poverty, could not succeed in building as large a temple as Solomon. That he should take a span for a cubit, and so keep the same numbers, is very probable. And as we find this copy of the temple of Zerubabel to have had the scale of it reduced in this manner, we may well accept it as a copy of the dimensions of that at Jerusalem.

The positions of these various structures may be seen in the views on Pl. XXIV. On the East Face at A is the turn of the end of the temple enclosure. From B to C is the block of basement of the Temple itself. From C to D is the position of the courts, and from D to E is the great stairway. In the view of the West Face, from B to C is the tower which we shall describe, and at A is a terrace of earth against which the houses were built. Thus D on the upper view is about the position of C in the lower.

Of the divisions of the temple, into the Porch, Holy Place, and Most Holy Place, there is no trace left, as the whole was founded on one mass of brickwork, which is all that remains. There was however a part of a marble column found, lying near the foot of the town mound on the north, now in the Mocatta Museum, University College, London. It had doubtless been rolled down the hill from the top. Now a marble column would not be in place in the defensive work of the outer enclosure of the temple; nor would so large a column be used for cloisters in the comparatively small courts. The diameters of this column are 196 and 205 inches at the broken ends, 67 inches apart. This would agree well enough with the size of the two pillars of the porch of the temple, and it is difficult to see any other position where such a marble column would have been in place. The temple as we have seen was 182 inches wide. The side walls may be assumed at about 20 inches thick, leaving 142 for the inner width, about 12 feet. Two columns like the above would occupy 41 inches, and the 100 inches may well have been divided into a middle opening of 40 and two side openings of 35 inches each. As the height of the temple was equal to its width, it was 182 outside height; or let us say 162 inside, and so about 145 under the architrave, for the whole column and capital. Thus the column would be 7 diameters in height.

The breadth of the whole platform on the top was at least as wide as is shown in the plan Pl. XXIII, and the model Pl. XXIV, as this much is proved by the existing top of the mound. In every case we have only adopted the minimum dimensions that are shown, where any doubt exists—the least height of stairway, the lowest level of platform, the least breadth of platform, the least height of the eastern front wall. 31. THE CASTLE. At the head of the stairways are seen several foundations, still showing as trenches
or steps in the sand core of the hill, see Pl. XXII. These indicate that there was a square building here, of about 52 × 73 feet, see Pl. XXIII. Such a position was perfectly adapted for the citadel of the whole place; it rises sheer over the ascent from the town; it rakes down the whole length of the great stairway; it makes the whole of the western wall; it commands the entrance to the temple, which is just below it; and it also commands the temple courts and the space outside of them. It gives the entire mastery of the place. The position is seen on the view of the west face, Pl. XXIV, between B and C. At B is a steep face about 12 feet high which was evidently upheld by some wall now removed; this would be the north wall of the castle. The ground below was made up in a broad terrace to give a firm foundation, and then it fell again at A to the general level of the town. The position of the castle, placed diagonally to the outer wall, is a very strong one, as the faces cannot be weakened by direct attack.

The total height of the whole place may be reckoned thus. The platform was at least 902 level, or 886 inches over the plain on the east, and 845 over the ground on the west. Taking 845 as the minimum, we must add the temple height which was 182, so that its top was at least 1027 inches, and the top of the protecting fortification would be at least 1040 inches, and therefore very probably 1060 or 1080 inches (90 feet) over the west ground. The statement of Josephus that the building was 60 cubits high, gives 1094 inches, and this accords with the original form of the buildings as closely as we can trace them.

The detail of the restoration of the western wall is curiously involved in the curve of the base of it, and the slopes of the core ground which it must have followed. When these are taken together no other result seems possible beside that here followed in the plan and model. It is hardly needful to enter on all the minute reasons for this at length, as in any case a variation would not be important. But this much should be stated to show that there is a minimum of uncertainty, or mere imagination, in this restoration. The only piece of guesswork is the detail of the wall across the entrance; the place of it is known, but the gateways are only what may be presumed on, as likely for such a situation. Doubtless there were many details of the finishing off of the parapets, gangways, and entrances. But as we have no evidences about these, no attempt is here made to restore them in the model.

32. We may now notice the stone-work and fragments of decoration that remain. The external wall-surfaces are shown by the fine piece of the great eastern wall which we dug out. The elevation of it is given in Pl. XXVI, and in Pl. XXV is a view looking down into the excavation, and another view of part of it at close quarters. The courses at the two ends of the wall are as follows:

<table>
<thead>
<tr>
<th>Top</th>
<th>21°6 to 21°0 inches.</th>
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<tr>
<td></td>
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<td>20°8 20°7</td>
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<tr>
<td></td>
<td>20°8 20°7</td>
</tr>
<tr>
<td>Base</td>
<td>21°8 21°0</td>
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Thus they average 21°1 inches, and the variations of the stones from that size have been sorted into each course, so as to get them to rank more evenly together. The lengths are not uniform, varying thus:—

38, 43, 46, 47, 48, 49, 50, 50, 51, and 53 inches. The breadths are 21, 21, 21, 21, 23, 24, 24, 24, 24, 25, 25, 25, 27, 29, 37, the latter three being in the lowest course, which is a less regular foundation. It seems then that the standard size for the blocks was 50 × 25 inches and 21 inches thick. The surface is the original quarry face with pick-marks on it; but round the edge is a draft about 4 inches wide, slightly sloping down to the joint line. The drafting is seen to be cut with a claw tool where the marks are visible (shown in the elevation, Pl. XXVI), such as is very plainly seen in the dressing of the piece of cornice photographed above the view of the wall. The quality of the stone is not so good as that of the Hyksos wall, or the chips of the upper structures; it is full yellow, and inclined to powder away if exposed. At the base the lowest course rests in part on the desert gezireh surface, which is supplemented by lower blocks in some places.

The finish of this wall above was with a cornice of white limestone. A piece of this was found in digging to trace the north-east corner. The profile of the fragment is on Pl. XXVII, scale 2:3, and the photograph of it on Pl. XXV. The use of it was evidently for eaves to shoot off rain, clear of the wall face, as is shown by the under-cut slope and drip edge below. Now such a feature is quite needless at Tell el Yehudiyeh, and would never be invented there; it is copied from some original in the rainy climate of Palestine. Moreover the drafting of the masonry of the wall is not known in Egypt, or only rarely as an exotic copy; whereas it is the regular dressing of the masonry of the temple revetment-wall at
Jerusalem. These points are good evidence as to the origination of the design of this place.

Another piece of moulding was found, at the west side of the block of brickwork which formed the basement of the Temple; it is shown also on Pl. XXVII. It is imperfect above and below, and clumsy in form; but it is doubtless a part of the top cornice of the sanctuary itself.

Other fragments of limestone were found by turning over the heaps of chips and earth, to the north of the tower and the ascent from the town. Here the columns and blocks had been rolled down to be trimmed into shape, and some fragments were left, shown on Pl. XXV. The important piece in the middle is carefully restored, from a series of sectional measurements, on Pl. XXVI. It was a semicircular battlement, like those on the top of the tower at Medinet Habn, which was copied from a Syrian original. On the face of the battlements was a band of at least five ribs, which seems to have run along the top of the wall, rising up into each battlement, and then descending again. Probably the space in the middle of the square pattern was occupied with some ornamental boss. The rosette is suggested here on the strength of six-lobed rosettes as centre bosses in Palestinian decoration.

The fragments of capitals show that the architecture of the temple was Corinthian. They could not belong to the marble column as they are of limestone, and so they prove that there were other ornamental columns here, besides those which we have considered above to belong to the temple porch.

33. The history of the site was not peaceful. On all sides, and especially about the great stairway, there are limestone balls thrown by the balista in a siege. They are usually about three inches across, but some are of double that size. The siege to which these belong was very possibly during the war between Cleopatra II and Ptolemy Physkon in 146 B.C., when we read that Onias acted as the general of Cleopatra (c. Apion, ii, 5), and therefore the opposite party would have special reason to attack the town of Onias. That the same man should be high priest and general was familiar to the Egyptians, as we see in the XX1st dynasty, and the Asmonean rulers were also high priests (Ant. XV, xi, 4).

At the same siege, or more probably later, the place was burnt on the east side. A great quantity of burnt brick has been recently thrown out in heaps along the east wall. This seems to have been the remains of brick and timber houses built inside the wall; and when the stone wall was quarried away in recent times, this mass of ruin had to be removed, and was thrown further down the slope. The brick pier built outside the wall to carry the stairway is also thoroughly burnt, showing that probably a wooden stair led down from the wall to the plain. On the north side the thick wall is burnt through in the middle part; and so low down that the conflagration must have been due to wooden houses built against the outside of it, rather than to any burning on the platform of earth inside.

Of the final destruction of the building the traces have nearly all been removed by the modern denudation. There is however a small patch still left on the east face, showing the layer of chips of white limestone which were thrown down in cutting the masonry to pieces; next above these followed the pieces of bricks from the destruction of the walls and platform; and over all are some feats of sand from the overthrow of the upper layers of the sand platform. This patch of ruin serves to prove that we have the original face of the sand hill preserved here, and hence we can identify several other parts of the face amid the modern cuttings. These pieces of the hill-face were all carefully surveyed, and form the data for the contours shown along the south-eastern part of the hill. On the northern side, and the north-eastern part, the soil has been greatly cut away; the present contours of this part are given on Pl. XXII, and the presumable ancient contours on Pl. XXIII.

34. Only a few objects were found on the top of the hill, besides the architectural features; a clay jar seal with a monogram stamp (Pl. XXVII), perhaps reading pin or pev; an earring of glass beads on bronze wire (Pl. XXVII); a ram's horn (cut off the skull), which lay at the side of the temple platform, probably from a sacrifice. With this should be noted the great mass of burnt bones of calf and lamb, which were found and removed many years ago from the north of the town, as recorded by Mr. Griffith (M. J. 53). The only piece of inscription found here was an ostrakon, which lay with other pieces of similar brown amphorae, as part of the foundation of the courts. This is shown in Pls. XXIV and XXVII. Mr. Griffith agrees that it may be as late as Ptolemy Philometor, though he would have been inclined to date it rather earlier. The last line, and the third above it, read Harkhēb son of Zeho; and the last line but one reads Abrm, followed by the foreign determinative. After the names follows the word
"bricks," but the numbers of bricks are lost. Thus we learn that both Egyptians and Jews were employed in the supplying of bricks for this temple. The coins found on the top of the mound were all of the later Ptolemies after Philometor.

In the cemetery on the edge of the desert a few tombs were opened by us, and in these were found the handled bowl and jugs on Pl. XXVII, also the bronze lock-plate and ornaments from a box. The plan of one of the most typical tombs is shown as the last on Pl. XII. There is no doubt that this was the Jewish cemetery; but the form of the tombs belongs to the age, and not only to the people. The rock-tombs of Alexandria are very similar, and the Ptolemaic tombs of Dendera are alike in the entrance and chamber, though one broad loculus there occupies the back of the chamber.

Outside of the town there are also other remains of this age to the east of the mound, see inset Pl. XXII. The banks around the Egyptian cemetery contain potsherds between the 11th century B.C. and the 1st century A.D.; and the broad bank to the northeast by the Arab cemetery is dated by pottery of the 11th century B.C. It seems then that much enclosure here was done during this Jewish occupation. This may have been in order to preclude settlements of houses upon the ground defiled by the graves. The town through which the road runs, as seen in the view Pl. XXV, is strictly limited by the bank to the south of the cemetery.

35. We may now summarise the conclusions about the site of the Temple of Onias. The indications about its position,—Leontopolis, the distance from Memphis, in the Heliopolitan nome, the existence of a temple and a great mass of building material, and the Jewish names in the cemetery,—all these agree with what we find at Tell el Yehudiyyeh, and cannot be all assigned to any other site. The statements about the height of the place, and the copying of the temple of Jerusalem on a poorer scale, exactly agree with the great mound and its buildings, and this place reconciles the apparent contradictions of Josephus. The nature of the site agrees with the requirements of the structure of Onias, and with no other purpose. An immense mound was constructed all at once, with a great number of sacrifices at its foundation, pointing to a concourse of a people. This mound was strongly fortified, but differs from any Egyptian fortification in its nature. It comprised a town, and an isolated building higher than the rest, and even more strongly protected, the precious part of the whole place. This building had just the proportions of Solomon's temple, and had an inner and outer court before it. The bricks were partly supplied by Jews. And outside of the town on the north was thrown a great quantity of burnt bones of the sacrificial animals, as from the burnt sacrifices. The external connections, or the structural evidence, would either of them be sufficient to make the purpose of this place almost certain. Together, they seem to leave no possibility of question that we have here the New Jerusalem and Temple of the rightful High Priest Onias.

We may now draw attention to another matter, which might seem fanciful, were we not certain of the nature of the place. This New Jerusalem copied the form as well as the character of the Holy City. On the west side of Mt. Moriah was the deep ravine of the Tyropoion valley, on the other side of which lay the town. So here the steep revetment 90 feet high on the west stood over against the wall of the town 50 feet high, with in one part a space of only a few yards between them. On the east a natural slope led down to the Kidron valley; and here the sloping side of the mound descended eastward to the plain. From the Kidron there led up to the north end of the Temple area the great ceremonial stairway whose lower rock-cut steps I found in 1891; this ran up on a high ridge of wall to the great platform. So here there is the great high stairway on the east side leading to the north entrance of the temple courts. On the north of the Temple lay the quarter of Bezetha, which was the main new region of Jerusalem in the later history. So here the new town lay on the north of the temple. At Jerusalem the great citadel was the castle of Antonia, which was built long before Antony, at least as early as the Asmonean family (Ant. XV, xi, 4). This castle commanded a view of the Temple courts and sacrifices, which was a great grievance to the zealots (Ant. XX, viii, 11). So here the castle on the north of the temple not only commanded the approaches and the outer walls, but looked along the temple courts up to the temple itself. These close resemblances cannot be only accidental; the place was intended to be a model of Jerusalem, and a substitute so far as possible for that ideal city of the race.
CHAPTER V

TELL ER RETABEH (RAAMSES)

36. In the middle of the length of the Wady Tumilat, about twenty miles from Ismailiyeh on the east, and rather farther from Zagazig on the west, stands a wide dusty mound of ruins known as Tell er Retabeh. As in other ancient sites, so here, the natives remove large quantities of earth to lay upon the fields. But instead of this destructive custom exposing the earlier remains, as is the case on other sites, it makes the lower levels here even more inaccessible. Any pit in this region is quickly filled up with sand from the desert, and the holes made in one year are levelled up again in the next. At first sight the mound looks untouched; but a large part of it is now a honeycomb of old pits filled with sand. This makes work here unprofitable, as it is needful to dig through so much depth of running sand in which nothing can be found. The soil itself also is poor in objects in the untouched parts. The mound is not an accumulation of house ruins, as such mounds usually are; but large parts of it only contain a few enclosing walls, and the area seems to have been largely left open, and then gradually filled up with ashes and blown dust. This filling indicates that the place was rather a fortified camping ground, for the shelter of troops, than an ordinary town.

Twenty years ago Dr. Naville had made some excavations here, and found scarabs of the XVIIIth and XIXth dynasties, and a bronze falchion of that age. But his conclusion was as follows: "The whole place indicates a camp, probably of late Roman times. It must have been one of the military stations posted along the canal leading to the Red Sea, and it may have been another of the garrisons mentioned in the Notitia Dignitatum" (Goshen, 25); and here the subject had rested, without any further endeavour to settle the history of the site.

The work of the past winter has shown that, so far from being a Roman camp, this is the oldest site known east of Bubastis, and that it has not had any Roman occupation. The stone vases of the Old Kingdom, and the weight and scarabs of the IXth to the XIIth dynasties prove the early date of occupation. The human sacrifice under the oldest wall points to its being held by Syrians rather than Egyptians. The depth of about twelve to fifteen feet of ruins beneath the buildings of the XVIIIth and XIXth dynasties is solid evidence of the early importance of the town. Of later age we found here a temple of Ramessu II with sculptures in red granite and limestone; part of a tomb of an official who was over the store-houses of Syrian produce; and the great works of Ramessu III. All of these discoveries exactly accord with the requirements of the city of Raamses, where both the second and third kings of that name are stated to have worked, and where a store-city was built by the Israelites along with that of Pithom, which is only eight miles distant. The absence of any other Egyptian site suitable to these conditions, which are all fulfilled here, makes it practically certain that this was the city of Raamses named in Exodus. Of later times the cemetery of the XXIIIrd dynasty has yielded us many interesting small objects.

37. The site should be first described, and after that the objects will be noticed in historical order. On the plan, Pl. XXXV, it will be seen that there are walls of three ages. I could not succeed in completing this plan on the north-west, as deep sand drifts covered the low ruins of the walls. Along the north I could only find one wall, and that so much consolidated by rains that the sizes of the bricks could not be seen. On the east the course of the second wall was clear, and traces of the third upon it. The south side was far better preserved than the others, but here we were working the whole time that I was at the place, in order to trace out what is shown. At the south-west corner the outside and its deposits are entirely lost; and the only deposit which I could recover was at the south-east, and for that a man worked for a week before he could find it. All of the lower walls are of such earthy marl, and so much soaked with wet, that it is difficult to tell them from the earth around. The previous plan of the town (Goshen, Pl. XI) is largely drawn by guess work; and the very thick wall at the west of it is really the thickness of the gateway bastions, one of which was cut through instead of tracing the face of it.

The first fortifying of the place was by an irregular wall, marked here wall 1, which lies inside the later town and askew to it. Its thickness in two places was 123 and 124 inches. No further continuation of this to the east could be found, although we made large clearances. The long straight line has a bastion near the west end projecting 48 to 53 inches; of this 33 inches width is of the grey bricks of the wall, and 68 inches more has been added on the east in black bricks. The wall bends just beyond this, runs west for 160 feet, and then bends again, at another bastion which has been patched like the first. This bastion
projects 46 to 50 inches; the older part is 70 wide, and the patch of yellow bricks is 36 wide. Beyond this corner the wall takes a slight bend, and continues till it reaches past the later gateway. Then it ends at what was doubtless the earlier gateway, almost exactly in line with the entrance to the temenos of the temple.

38. Beneath the last-named bastion corner we mined inward in search of a foundation deposit. No deposit was found such as is usual in Egyptian buildings. But constructions appeared which were entirely new to us in their character. First a stack of bricks, of which the plan and section are given in Pl. XXXV A; five below, then four, then three, and two on the top. Nothing was found beneath these, and they seem to form the mark which was used in setting out the walls. But just east of these, and parallel to the wall, was a small arched brick tomb of a child, buried at full length, head to the east. As the grave is only 30 inches long, and the body did not fill the length, it must have been quite an infant. The bones were very slight, and so friable in the earth that I could not preserve them. There were no objects with the body. This grave is clearly ceremonial, and not only a stray interment. It is placed by the side of the corner mark so closely that it must have been built at the same time. A pit had been sunk in the bed of clean gravel which underlies the wall, and after the two structures were built the pit was filled with rather dirty gravel. Over the whole lay the final five inches of sand on which the bricks rest. This burial, or child sacrifice, was a custom in Syria, known both by record and by recent discoveries of Mr. Macalister; the custom was succeeded by that of the burial of a burning lamp, the flame of which was extinguished instead of extinguishing the life. But such a custom has never been found among the Egyptians, and hence we must rather look to a Syrian occupation as the cause of this earliest fortification. To judge by the early age of remains here we might look to Syrian invaders after the VIth dynasty as likely builders; and as this is a brick fort, and not an earthwork, it is more likely to belong to such people than to the barbaric Hyksos.

39. The town ruins and ashes accumulated to a depth of as much as about fifteen feet by the time of the XVIIIth dynasty. Of that age must be a large house which we entirely cleared out on the highest point of the mound. It contained scarabs of the XVIIIth dynasty (see Pl. XXXIII, no. 11), and pottery down to about the XXIInd dynasty, and the occupation probably lasted from about 1400-800 B.C.

The plan of this house is given on Pl. XXXV A. The entrance was in the middle of the north side; the passage rose up steps now destroyed, then turned to the west up the broad brick wall, and so reached the upper floor of dwelling rooms. The lower rooms here remaining had probably been the cellars, to judge by their differences of level. At the south side is a curved retaining wall which banked up the earth on which the house was built. The views of this south wall from each end are given on Pl. XXXII A. The most important things found here were the small and large jars containing silver, see Pl. XXXVI mid right side, and a jar at base of Pl. XXXVC. Unhappily for us the silver had been entirely smelted, and not a single fragment had any work upon it; so no one was the better except the workman, who received the metal value. The silver had been in two cloth parcels sealed with the seals shown in Pl. XXXIII, 9, 10. The various small objects from these are marked 10 in the plates, and one group found together is marked 23.

40. The next period is that of the building of the temple by Ramessu II. From the beginning of our work we endeavoured to find the temple site; and as it was to be presumed that Ramessu had built on an older sacred site, I naturally began on the lowest ground, along the east end, as temple sites are generally lower than town ruins. Extensive clearances here led to no temenos; but we were rewarded by finding half of the front of the temple, which had been dragged away to use for building-stone, but never broken up. This is shown in Pls. XXIX, XXX, representing Ramessu II smiting a Syrian before the god Atmu. We also found many blocks which had formed the whole top course of the front, and from these we can see that the opposite side had a similar scene with the god Set instead of Atmu, see top of Pl. XXXI. Some other blocks were also found in the stone lining of a later wall a little north of this. All of these sculptures are described in detail in Section 43.

After abandoning this end of the place I worked more at the north-west region, where the natives repeatedly said that there were large stones. We tried for weeks in every place that was pointed out to us, and I offered ten shillings for every block of granite that a native could show us, but in vain. I was much attracted by a massive brick wall with a great gateway in it, and a large jamb of brick down
the north side of the entrance. On trying to trace a continuous temenos wall from this, we were disappointed to find that whenever a wall was tracked downwards it came to an end very soon; no walls here would go down to bottom levels. At last the finding of granite blocks near the surface proved that Ramessu had built his temple on fifteen feet of town rubbish, and so no temple need be expected lower. The nature of the site could then be grasped and understood. The front wall north of the entrance is in fine condition. It is 40 ft. 7 in. long to the inner corner; on the outer side it has been anciently broken. The counter wall south of the entrance is 62 ft. 9 in. along the inside; it has no jamb at the entrance, and is built of black bricks, all in one piece with the side wall to the south, and with the wall parallel behind the front. Both sides of the front have a parallel wall 14 ft. 2 in. behind them. Inside this wall on the northern side is a large building, filling that side of the temenos. Further in the temenos lay fragments of a limestone doorway, and beyond these the lower part of a great stele of red granite, see Pls. XXVIII, XXXII; and parts of a red granite dyad of Ramessu II and Atmu standing, the upper half roughened, see Pl. XXXII, the lower part almost destroyed. This group is apparently that seen by the pilgrim in 380 A.D., which was of stone like the Theban statues; she was told that it represented Moses and Aaron. Two other defaced blocks of red granite lay to the south of these nearer to the wall. The base of a limestone column found at the well was 30 across on the top, 34 below. We shall refer again to the details when noticing the plates. Behind the granite monuments is a wall of yellow brick, like that along most of the south side of this temenos, and this appears to have been the back of the temenos, which was thus about 100 feet long and 115 feet wide inside. It will be seen that it stood almost axially on the line from the town gate of the first wall. A later wall has been built straight through the gateway of the temenos.

41. The next step in the history is the outer fortification built by Ramessu III. It may seem strange that this was not built by his greater predecessor. But probably Egypt was safe from the risk of invasion then; while later the Syrian league against Egypt, rendered it prudent to fortify the frontier towns. This second wall ran far outside of the first wall at the south-east; it just touched the outside of the first wall at the south, and then ran further out at the south-west, and turned up to a gateway between massive brick bastions. Probably the north wall is also part of this fortifying. Under the south-east corner lay the foundation deposit, in a group about 14 inches across; the centre of it was 28 inches to the east outside, and 42 inches to the south. The pans and cups were irregularly laid in the sand (Pl. XXXV C), bones of a sacrifice lay between them, and the glazed offerings of oxen, heads and haunches, ducks, cartouche plaques, scarabs, and beads, had been roughly cast in over all. For these see Pls. XXXII A, XXXIV.

The last stage that we can trace is that this wall of the XXth dynasty was greatly denuded, down to within a few feet of its base, and the west gate had almost vanished, when a third wall was built nearly on the same lines; this was slightly inside the older wall at the south, upon the line and the gateway at the west, and there overlapped the old first wall. The gateway axis was blocked across, and it led only to a narrow passage along the face of the first wall. This passage was 50 inches wide, and then was narrowed by a block to 22 inches wide. Thus there was a narrow entrance for persons in single file. But on the south side a stone gateway had been built, of which the foundation hollows are visible as here marked, and the chips lie thickly around the place.

42. The thicknesses of the walls, where best preserved, are:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st wall</td>
<td>123, 124 inches.</td>
<td></td>
</tr>
<tr>
<td>2nd wall</td>
<td>374 inches.</td>
<td></td>
</tr>
<tr>
<td>3rd wall</td>
<td>347, 351, 352 inches.</td>
<td></td>
</tr>
</tbody>
</table>

The third wall is rather open in the building, with spaces between the bricks in some parts; but they are regular and even, not tilted as has been represented. The sizes of the bricks average:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st wall</td>
<td>.</td>
<td>14 8 x 7 2 x 3 3.</td>
</tr>
<tr>
<td>XVIIIth dynasty house</td>
<td>.</td>
<td>15 4 x 7 5 x 3 4.</td>
</tr>
<tr>
<td>2nd wall</td>
<td>.</td>
<td>18 4 x 8 1 x 4 0.</td>
</tr>
<tr>
<td>Low in W. gate</td>
<td>.</td>
<td>18 1 x 8 7.</td>
</tr>
<tr>
<td>Jamb, wall of temenos</td>
<td>.</td>
<td>17 4 x 8 1 x 3 7.</td>
</tr>
<tr>
<td>3rd wall</td>
<td>.</td>
<td>17 1 x 8 5 x 5 3.</td>
</tr>
<tr>
<td>High in W. gate</td>
<td>.</td>
<td>17 1 x 8 3 x 5 5.</td>
</tr>
<tr>
<td>S.W. wall, temenos</td>
<td>.</td>
<td>14 0 x 6 5.</td>
</tr>
</tbody>
</table>

43. Pl. XXVIII. Having now described the site in historical order, the plates will here be followed in noticing the objects, so as to be more convenient for reference. At the top is the inscription from a granite column base of the portico of Ramessu III at Tell el Yehudiyeh.
Below is the lower end of a large granite stele, which will be described under Pl. XXXII.

PLS. XXIX, XXX. The large scene is of Ramessu II smiting a Syrian before Atmu, the god of this eastern side of the Delta. The god holds a falchion, which he is presenting to the king. This scene was on the spectator's left hand of the doorway of the temple; and on the right hand was a similar scene of the king, before the god Set, of which some of the top row of blocks were also found, shown at the top of Pl. XXXI. Along with these are carved the upper parts of two pairs of large feathers. These feathers certainly surmounted cartouches, and these were over the doorway. From these remains we can tolerably restore the front of the temple. It was not free-standing, for the brick wall of the fore-court joined the ends of the front. Between these fore-walls the front measured 166 inches (nearly 14 feet), and stood about 112 inches high to the foot of the cornice, or probably about 12 feet over all. The scenes at the side had a plain wall dado about 56 inches high below them, as is usually the case on temple fronts. The doorway was only 22 inches wide, or possibly a little less.

This façade of the temple was brilliantly painted in red, blue, yellow, and perhaps other colours; much of this colouring is still well preserved in parts. Atmu was in a blue dress, and blue kilt with yellow border, and yellow shoulder-straps and belt. His armlet and tail were also yellow, his collar white and yellow, and the ankh was blue. The king's dress was less distinguishable, but his collar and beard were of yellow. The captive wore a striped tunic of red and blue, with red belt and ends, and a blue kilt. All the bodies were painted in red as usual; many of the hieroglyphics were in red also, the Maat figures and square of throne, the mer, du, and nedj. The ground of the scene was in yellow.

On the scene we read "Lord of both banks, Usermaatra, approved of Ra, the strong bull loved by Maat, all protection and life behind him," and "Atmu lord of Succoth gives him all valour and all strength." The work is better than on most of the sculptures of this king, and is equal to the usual style of his father Suty.

Pl. XXXI. The top of this is from the temple front already described. Below this is a fine head of Ramessu III, showing that he also wrought sculptures here as well as building the city wall. To the left are two pieces, which must be from the pylon gateway, being on so much larger a scale than the temple front. They bear part of the titles of Atmu "lord of Succoth" and of the king "Ramessu, living eternally." Next is a column of inscription, "Adorations to thy ka the . . ." Then comes a piece of a doorjamb from a tomb, which was re-used for stone in the town. It reads, "Chief archer, keeper of the granaries, keeper of the palace, USER*MAAT*RA*NEKHITU*NE*THIHKU; Chief archer, keeper of the granaries of Tanuter, USER*MAAT*RA*NEKHITU*NE*THIHKU." Tanuter here probably refers to Syria, as in some other cases, and not to its principal meaning of Arabia. That there were granaries here for storing the Syrian produce, is important, as showing that this was a storecity of Ramessu II. The name of the official is in honour of the king "mighty in Succoth." The Semitic word succoth, booths, was rendered by the Egyptians as thioku; and as it was not a native word, it was blundered as thu on the scene, Pl. XXIX, and here as thk. Lastly, on the right is the ka name from the temple front, as on Pl. XXIX.

Plate XXXII. The dyad of red granite certainly represents Ramessu II and Atmu, to be worshipped as the joint gods of the city Raamases. Below it is the red granite stele, on which we read, . . . ur shefatu, aa nerau, em tau . . . her kheset wawy suten baty Usermaatra*sotepnura Si Ra Mery Amen Ramessu du ankh kheryt aat en ta ne Shasu, haq f nay sen thesut, sma her sen, geneem demau her ran f er set ta—"mighty in powers, great in terrors in lands . . . on distant deserts, the king Usermaat'Ra, approved of Ra, son of Ra, loved by Amen, Ramessu, giving life; (of the) great enemies in the land of the Bedawyn he plundered their hill fortresses, slaughtering their faces, and building in cities upon which his name is to eternity." This allusion to building in the various cities called after Ramessu suggests that this city was one of such—that is, Raamases.

44. At the right are selected amulets from various tombs, the drawings of the same objects being given in their groups in the following plates. The Ptahsokar with feathers on the head is unusual in amulets (20 in XXXIV A); Bast with feathers is also rare (18 in XXXIV A). The earrings are of silver, as also is the aegis in the centre. The four scarabs and two rings are from one tomb, the whole group of which is on Pl. XXXIII, 22.

Below is a good set of later amulets, grave 318; and a necklace of uau eyes, grave 117. At the base is an unique blue glazed bowl, also shown in drawings, Pl. XXXIV B. Round the brim are nineteen frogs, others are jumping up the sides, and a crowd
going toward the mouth, while a large frog sits on a pedestal in the middle. The spout is in the form of a lion's head, and a passage leads from the bottom of the bowl through the thickness of it. The frog is the sign for multitudes, it is said by Horapollo to be the emblem of the human embryo, and it is the animal of the goddess Heqit who gives life to the infant (Deir el Bahri, ii, XLVIII); hence this bowl may well have been for giving magic drink to ensure fertility. The plan of the tomb where it was found is on PL XXXVA.

Pl. XXXII A. This shows objects described elsewhere, the weight of Khety in noticing Pl. XXXIII and the foundation deposit in Pl. XXXIV, and the large house in Section 39.

Pl. XXXIII. The greater part of the scarabs were found loose in the town rubbish, there being but few in the late cemetery which we excavated. 1 is probably of Mentuhotep II. 2 is of Amenemhat I, and is another example of the writing of the name in its true order, Schotepabra, as is known to two other scarabs of this age. 2A is a rare instance of two circuits of scroll pattern; the central sign is not known as a hieroglyph. 3 reads Ptahwasneferankhdu—"May Ptah give strength and good life." 3, 5, 5A are all of the Hyksos age. 4 is the splendid weight of King Khety of the IXth dynasty, made of polished red jasper: it gives the name as Khetyneb-kau. The weight has probably lost about a twentieth by chipping; allowing for this it was about 1850 grains, and dividing by the numeral 9 on the end, the unit was 205 grains, the well-known gold standard usual in these early square weights. 6, 7, 8 are probably contemporary with Tahutmes III. 9, 10 are clay seals, from the parcels of melted silver found in the great house (Section 39). 11 is of Amenhotep III. 12 with Anhur, 13 with Ra, 14 with the sphinx, 15 with the crio-sphinx, 16 with Set, and 17 with Mentu, are probably all of Ramessu II. Of the others we may note the degradation of the lotus-flower in 26, 27, copied from 25. 28 to 37 are all of the XXth to the XXIIrd dynasties.

The large group of tomb 22 contained five scarabs, 38-42; 40 is of a rich Prussian-blue glass, like the large beads 62, of which there is a long graded necklace. From the style of the pierced rings, 60, 61, this group belongs to the XXIIInd or XXIIIrd dynasty. At the base of the plate are scarabs bought at Zagazig; 66 is a diorite plaquè of Ramessu VI.

Pl. XXXIV. The groups of amulets found in the tombs are placed here in approximately their historical order. All of the tombs in the cemetery, a quarter of a mile north of the town, had been plundered anciently, and the remaining objects were found scattered. The tombs were in groups of brick chambers, much like those at Nebesheh (Tanis, ii, XVI); the more complete and interesting of these are given on PL XXXVA. In the more perfect part of the cemetery the walls are still three to four feet high, further west there is but a foot or a few inches depth left, and west of these there is only bare marl earth, and probably the tombs in it had been entirely denuded away. We worked so far as the sand drift allowed, but there are doubtless other burials now covered by the sand heaps.

The tombs 19 and 8 may probably be of the XIXth or XXth dynasty, see the pottery on Pl. XXXVC; in 19 the beads are of garnet and carnelian, in 8 they are of green glaze and carnelian; but the iron bracelet is remarkable at so early a date. The foundation deposit of Ramessu III was found beneath the corner of his wall, as described in Section 41. The group of tomb 5 has a scarab of the late Ramesside type, but touches the XXIIInd dynasty by the plaque of Bast. The beads of alabastr and notched glaze in tomb 1 are characteristic of the XXIIInd and XXIIIrd dynasties.

Pl. XXXIV A. Tomb 20 contained some of the best objects, the figures of Ptah-sokar and Bast, the silver aegis and earrings, and the glass spot beads. Tomb 14 had a serpentine palette, probably taken from a XIIth dynasty tomb; the double-cone beads of glass belong to the XXIIInd dynasty, as seen in tomb 22, Pl. XXXIII. In tomb 27 the silver earring and usa eye are of this age. In tomb 24 is a piece of bronze rasp, and a peculiar red pot (last); the globular bottle is of the same Cypriote class as the pilgrim bottles. The little plaques of the usa eye in tomb 18, with the names of Tahuti, Nebhat, and Uazet, are like those from Zuweleytn near Tanis (Tanis, i, XII, 18-22). The open-work basket, tomb 15, was a special attribute of Bast. She carries it on her arm, and there is sometimes a figure of a cat in it. This may be the form of basket in which the sacred cats were carried about in the temple of Bubastis. In the last group, B, it is curious to find the name Hotepfers on a scarab, as it is not otherwise known beyond the IVth and Vth dynasties.

Pl. XXXIV B. We here reach the age of the quadruple eyes, as on Pls. XIX B, C, of Yehudiye.
Among the separate objects at the lower part, there is the inscription of an ushabti with an unusual formula, "Says the Osirian the third prophet of Bast, keeper of the estates of Sekhet, Hor, maa kheru." This was the only ushabti found at Retabeh, and it was in the great house, and not in the cemetery. It is remarkable that no ushabtis were found in the cemeteries of Yehudiyeh or Retabeh, nor in even one in a hundred of the Saft graves. The frog bowl has been described under Pl. XXXII, Section 44.

Pl. XXXIV C. The figures of gods and amulets that were found separately are drawn here; most of these are from the town. At the right of the top are two groups of Shu and Tefnut, with "good life" on the back. In the second line is a figure of the goddess Hatmehyt of Mendes, with the fish on her head. The large piece in the middle is a figure of Bes, showing the lion's-skin wrapped round him.

Pls. XXXV, XXXVA have already been dealt with in Sections 36 to 41.

45. Pl. XXXV B. The bronze here is of various ages. The knives are probably of the XVIIIth dynasty; the rasps are probably about the XXIInd dynasty; and the bracelets at the bottom are later. The glass spot beads are about the XXIIIrd dynasty. The ivory pin may be later; it is not a hair-pin (such as is common in Roman times), but was used for some textile work, in which it became deeply cut diagonally by the thread. The bent pieces of lead are net-sinkers.

Pl. XXXV C. This pottery was found with groups in tombs, and is therefore approximately dated. Tomb 6 contained the scarab 25 (Pl. XXXIII). The forms in tomb 8 show that the types of the XVIIIth dynasty still survived, along with an iron bracelet, Pl. XXXIV. Tomb 13 is of the same age. The foundation deposits of Ramessu III were found with the glazed figures on Pl. XXXIV, see Section 41. The pan in tomb 4 was with the group in Pl. XXXIV and the foreign flask XXXVI, 17. The group of tomb 1 included the beads and scarabs on Pl. XXXIV. At the base is the pottery of the XVIIIth dynasty onward, found in the great house, 10. The last flask is of Cypriote form.

Pl. XXXVI. Many examples of foreign pottery were found at Retabeh, mostly in the town. 1 is the lower part of a leather-bottle form of black ware with white lines, of the early XVIIIth dynasty. 2 is part of the edge of a dish of light red with dark red pattern, recalling the style of the XVIIIth dynasty cist at Yehudiyeh, Pls. XIV A, XV. 3 is a triple bottle with two necks, with the same decoration; the fragments were found in a tomb. The piece of buff Cypriote bowl, 6, was found in the N.N.E. of the town on the washed-down earth of the walls, before the town rubbish had accumulated. This shows that before this pottery came in there was a long period of desertion of the site; this was probably during the Hyksos age, when no frontier was needed. The triple handle in 7 belongs to the XIXth dynasty age, see Illahun, XVIII, 51; XIX, 11. The globular pilgrim-bottles, as 4, 12, 13, 15, are a later type, probably of the XXIInd dynasty, the beginnings of which may be seen in the XXth dynasty (Mound of the Few, XIII, 3; XV, 13). The thick lumpy pottery flasks, as 16, 17, are akin to the last on the previous plate, which type is found at Sharanba and in Cyprus. It is there attributed to as late a date as about 550 B.C. (Jour. Hellen. S. XVII, 159; fig. 12, 1); there is no positive evidence against this, but such forms were not found with the Cypriote pottery of 600–500 B.C. at Nebesheh (Tanis, ii, Nebesheh, Pl. III), and from a general impression I should have put these one or two centuries earlier. The piece of bowl, 18, is certainly VIIth century Greek. At the bottom are some rude figures of pottery, of probably foreign make about 1000–800 B.C.

Pl. XXXVI A. This large pottery is of various ages. Probably we may assign it to the following dates: XIXth dynasty, 4, 5, 6; XXIInd dynasty, 7, 8, 13, 14, 15, 16; XXVIth dynasty, 2, 3; Ptolemaic, 1, 9, 10, 11, 17; Arab (?), 12. It was all found in the town. The small jar 13 was placed inside the large jar 14, and so is contemporary.

Pl. XXXVI B. This smaller pottery was likewise all found in the town. As there is no evidence about the ages it is here classed according to form. The stands, 53–6, are probably fire pots, for carrying lighted charcoal from house to house. Some of these forms, as 54, 55, will stand independently, and may have been used also to support cooking pots over the fire; but others, 53, 56, will not stand, and having a handle they seem intended to carry embers.

46. Pl. XXXVI C. The stone vases here show the early occupation; the cylinder, 1, of white and grey granite, is probably of the Old Kingdom; the alabaster, 2, is of the VIth or VIIth dynasty (Diospolis Parva, XXVIII); the diorite kohl pot, 3, is probably of the same age; the alabasters, 5, 7, are of the XIth—4 is later, perhaps of the XVIIth dynasty (Dios. XXX). 9 is perhaps of the XIth dynasty;
8 is of the XXVIth. 12 is a model capital of limestone. 13 is part of a curious limestone box on four legs, with patterns which are more Syrian than Egyptian. The alabaster toilet dishes, 14, 15, are of the XVIIIth dynasty.

The weights, 16-22, are of interest, as this is the only place worked during this year, where such were found. The materials, weights, and units are as follows:

<table>
<thead>
<tr>
<th>Grains</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>16, grey limestone, almond</td>
<td>669 ÷ 3 = 223</td>
</tr>
<tr>
<td>18, white &quot; cone</td>
<td>1134 5 = 227</td>
</tr>
<tr>
<td>20, &quot; conoid</td>
<td>911 4 = 228</td>
</tr>
<tr>
<td>21, basalt square</td>
<td>1387 6 = 231</td>
</tr>
<tr>
<td>22, white limestone, conoid</td>
<td>1348 6 = 225</td>
</tr>
<tr>
<td>23, serpentine</td>
<td>688 3 = 229</td>
</tr>
</tbody>
</table>

These yield a unit averaging 227, the regular shekel known as the Phoenician standard; and the varieties fall on the most usual range of this standard (Tanis, ii, Defennik, XLVIII).

19, white limestone, square | 2414 ÷ 12 = 201 |

Khety, jasper, in XXXIII, 4. 1850 (?) 9 205

These belong to the gold standard; but the Khety weight is of the unusual multiple 9, as marked upon the end of it. This suggests that it was probably of another standard originally, and was subsequently marked for the gold standard. It may be that it was 8 of the standard of 231 grains, the old Syrian standard which was later adopted for the Phoenician coinage. Multiples of this by 8 were found at Naukratis. Possibly of this same standard is a cast bronze plaque with a walking lion upon it, which I bought at Zagazig; it weighs 870 grains, or 4 × 217 3.

One example of the Assyrian standard occurs, from Saft.

Sandstone, square, 1569 ÷ 12 = 130 7.

But among all these ten weights there is not a single one of the official Egyptian standard, the deben and gedet. This shows how much the eastern road was under Syrian influence, and that the traders and merchants were Syrians rather than Egyptians.

The spindle whorls, 23-32, drill caps 33, 34, pounding stones 35-41, and loom weights 42-8, do not need description.

47. The skulls were collected, whenever their condition permitted, at Tell el Yehudiye; but the damp ground had left few in movable state, and none of the Hyksos period were found unbroken. The measured examples date from the XVIIIth dynasty to Ptolemaic times, and there are not enough to distinguish changes, so that we can only regard them as an average of this locality. At Saft Mr. Duncan collected many skulls, but unfortunately all the numbers were weathered off before I arrived to measure them. I could only roughly divide them into early and late, according to the grouping as they were discovered; the earlier excavations being generally of the XVIIIth dynasty, and the later excavations being mostly Roman. The number from Yehudiye is 7 male and 8 female; from Saft the earlier are 7 male and 22 female, the later are 14 male and 16 female. The division of sex I estimated on each skull, as well as I could, when measuring. These numbers of examples are so small that the distribution of varieties cannot be examined, and I here only publish the median of each group.

<table>
<thead>
<tr>
<th>MALES.</th>
<th>FEMALES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, Broca</td>
<td>185 176 178</td>
</tr>
<tr>
<td>Flower</td>
<td>182 176 176</td>
</tr>
<tr>
<td>Breadth, maximum</td>
<td>136 137 133</td>
</tr>
<tr>
<td>&quot; biauricular</td>
<td>120 115 116</td>
</tr>
<tr>
<td>&quot; bizygomatic</td>
<td>126 129</td>
</tr>
<tr>
<td>Height, bregma</td>
<td>133 136 131</td>
</tr>
<tr>
<td>Basi-nasal</td>
<td>103 101 102</td>
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<td>Basi-alveolar</td>
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<td>Nasi-alveolar</td>
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<tr>
<td>Nasal height</td>
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<td>Nasal width</td>
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<td>Size early.</td>
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<td>Saft late.</td>
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<td>Size early.</td>
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The larger size in every dimension of the Yehudiye skulls, over those of Saft, is very marked; yet the places are only 25 miles apart, and are under similar conditions. Comparing the early and late skulls from Saft the most distinct difference is that the face becomes wider at the cheek-bones, and the whole facial bones diminish in the height and projection of the jaw. This is probably due to a better preparation of food diminishing the grinding required.

The importance of Saft as the nome capital of Goshen rendered it certain that a cemetery of some size must be in its neighbourhood. I therefore visited the place, and found the sandy rise of the cemetery. So soon as Mr. Duncan and Mr. Gilbart-Smith were at liberty they accordingly went there, and the excavations were done by them as described in the following pages. I finally visited the work myself for the dating of the objects.
CHAPTER VI

THE CEMETERY OF GOSHEN (SAFT)

By J. Garrow Duncan, B.D.

48. To the east of Zagazig in the Delta, about halfway between the small stations of Abu el Akhdar and Abu Hammád, and close to the eastern bank of the Ismailiyeh Canal, lie the ruins of an ancient city, on whose site now stands the modern town Saft el Henneh. Twenty years ago, Dr. Naville, in his excavations on this site, conclusively proved that this was the city whose name in hieroglyphic inscriptions was Pa-Sopt. He also showed that it was known about the XXXth dynasty as Kes, (Greek Pha-cusa), in the Septuagint as Kesem, and in the Old Testament as Goshen. The town contained a temple built by Ramessu II, and the most important discovery Dr. Naville made was that of the fragments of the beautiful shrine dedicated to the god of the place by Nectanebo II of the XXXth dynasty. The Sanctuary was known as “the Abode of the Sycomore,” this tree being regarded as sacred in the district.

Though in the XVIIIth and XIXth dynasties there were probably wide stretches in this region consisting of sand or rough uncultivated and marshy ground, now at the present day it is one of the most fertile and beautiful portions of the Delta; in all probability the whole of the sandy rises and ruins will soon be absorbed in the rapidly advancing cultivation, which artificial irrigation has recently done so much to promote. Already a considerable portion of the ruins lies under the level of surrounding fields, which when irrigated are partially under water, so that there is not much hope of the possibility of further work being carried out. The whole district is scattered over with trees, the most prominent of which are the sycomore, the acacia, and the date-palm. About three-quarters of a mile to the south of Saft el Henneh, between it and the village of Suwa, there exists still a considerable stretch of sandy gezireh, the western and eastern sides of which are employed as modern burial-grounds. This gezireh became the scene of our operations from the middle of February to the first week of April; and the results attained showed that it had been used as a cemetery more or less intermittently from the early XVIIIth dynasty down to the period of the Roman occupation of Egypt.

Much of the oldest part of the cemetery has already been laid under cultivation for the growth of henneh, a considerable produce of these villages; and in some parts the sand had been so completely carried away by sebalhín that in a large number of the sand-pit tombs which we examined, the skeleton, pottery, and other objects were barely covered. In some cases, the tomb-filling had been so denuded that no trace of bones was left; and the fact that there had been a burial there, was attested simply by the presence of scattered beads or other small objects, found a few inches under the surface; while in other cases we actually found that the bottoms of upturned vases had for some time formed part of the surface of the pathway, over which the traffic between the surrounding villages passed from day to day. It would appear therefore, that by the merest accident, or through the entire lack of enterprise and observation on the part of the natives living around, this gezireh had been left to us to be a source of information and historical data, as well as of many objects of value.

49. On the 18th of February we pitched our tents on the top of the broad brick wall on the eastern side of the ancient town of Goshen, intending to spend some time in examining the ruins of the place; but the tale that the ruins had recently become the property of a relative of the oudch compelled us to leave this part, and we therefore began operations at once on the gezireh.

On examining the cemetery we adopted the most thorough method of spreading the workmen over it, allotting to each pair a space of four or six metres wide, and beginning at the extreme eastern edge. By frequent measurement and recording of the work of each group throughout the day, the workmen were enabled to deposit the sand immediately behind them, so that at the close of operations the aspect of the gezireh remained comparatively unaltered, though almost every foot of it had been turned over and carefully examined.

At a later period we transferred our operations to the western edge, and followed the same method, working towards the centre, until we found burials of so late a date and so uninteresting a character, that we decided to abandon this place for the gezireh of Suwa about a mile distant.

In the work during part of the time I had the valuable assistance of Mr. Gilbart-Smith, who undertook the measuring and helped me with the recording; and later of Mr. T. Butler Stoney, who rendered great service in drawing a portion of the objects found; the greater part were drawn by Mrs. Petrie. We shall
now describe the character of the interments, and then proceed to the details of the more distinctive graves.

50. The Disposition of the Body. The body was almost invariably placed on its back, with the hands by the sides, or folded over the breast, as the large quantities of beads and bracelets found above the pelvis show. In a few graves, the body was found on its left or right side, but these were not the rule. In the majority of the graves, the head was to the west or north-west, with the face up; though in a few cases, the face was turned to one side or the other. No trace of mutilation of the corpse was found. From the abundant remains of decayed cloth, we infer that every body was wrapped in cloth before burial, and where we did find cloth in any state of preservation, it was manifest that the body had not been simply dressed in a single garment, but swathed in many folds of linen. In graves of men, usually nothing but a few pots were found. With the women, on the other hand, there seem to have been buried a selection of domestic utensils and personal ornaments, such as they would have used and worn during their lives. Large quantities of beads, which must have belonged to some sort of beadwork, were often found on the chest, rings on the fingers, earrings at the ears, valuable stone beads at the neck, hair-pins, and hair-rings under the head. A curious feature, frequently observed, was that the bronze bracelets and anklets, often mixed with coins and rings, were placed together on the breast, or by the ear. Pots, vases, and other things of domestic use, were variously arranged around the corpse, but, as a rule, a space was left for such things at the head of the grave; and, where the corpse was covered with bricks, before the sand filling, the pottery was usually placed above the bricks, just over the face of the corpse. In the pot-burials of children, the pots averaged 3 feet in length. The same practice was observed in nearly every case; the body had been wrapped in cloth, and wore the beads, bracelets, scarabs, and other ornaments which had been worn by the child in its lifetime. It was usually inserted at the bottom end, head first, and, where the pot was too small, the body was doubled up to fit it; generally the pot was placed so that the child's head was towards the west or north-west. When the neck of the pot was broken off at the shoulder, the body was inserted feet foremost, and the bottom of the pot left intact. In the earlier burials, this held good almost universally; in the later pot-burials of the Roman period, the same attention was not paid to the direction in which the body lay; and sometimes as many as five pots, each containing the skeleton of a child, were found in one pit, lying in all directions.

Very few cases of contemporary double burials were found. Occasionally, the bones of an infant were found mixed with those of an adult, a mother and child having probably been buried simultaneously; and in one case (grave 242), four skeletons (two complete and two in part) were found doubled up and placed crossways in an ordinary brick-lined grave. In pot-burials, if other pottery was in the grave it was invariably outside the coffin.

51. [Before referring to the ages of the various graves, it should be stated in what manner the dating was settled. Mr. Duncan had placed the grave number on almost every amulet, group of beads, and pot. I subsequently dated each of these by what I knew from other sites. Differences in the age attributed to any grave were very few; and after the pottery was classed and arranged on these plates a final complete list was made of all the datings for each grave, and all the graves in which each type occurred. There were only two cases in which the estimated age of a pot required alteration. A large pan is classed now as an extra size of no. 225 instead of in the XVIIIth dynasty; the base of it should have settled this before. And the new form 198 A belongs to the XXVIth dynasty, instead of the XVIIIth; there was no precedent to guide the determination. It is satisfactory to find that out of hundreds of examples of new collocations of forms and objects there is so little remaining to be learned.

In only six graves did there seem to be a mixture of earlier pottery re-used. But it should be noted that in making the broad division between XXVIth dynasty and Ptolemaic pottery, there are instances where a grave may have its contents classed differently owing to its belonging to the XXVIIIth—XXXth dynasties. We have not yet sufficient accurately dated examples to make a whole class of the Persian period; hence the pottery of this age appears under either the XXVIth or Ptolemaic according to its affinities. The following graves seem to belong to this age. At Saft 514; at Suwa 39, 58, 61, 106, 121, 134, 135, 180, 205, 238, 256, 262, 267, and these are called XXXth dynasty in the descriptions.

The selection of the following material has been made from a larger list drawn up by Mr. Duncan, and revised in accordance with the conclusions from
a comparison of the final lists, with reference numbers to the plates as I have arranged them.—W. M. F. P.] 52. TYPES OF GRAVES. The graves of the Cemetery of Goshen fall into the following classes:

I. The ordinary sand-pit burials. The body was laid in the sand, and covered with sand, without any brick building or coffin in any shape or form.

II. Side-scoop sand-pits. A hole was excavated in the sand to a certain depth, and a place was scooped out on one side of it, of sufficient size to admit the corpse. The entrance to the grave proper was usually built up with bricks after the burial, and the hole then filled.

III. Brick-built and covered burials. The bottom of the sand-pit was usually lined with single bricks, so as to form a narrow trough, just wide and deep enough for the reception of the body. This was afterwards covered over with bricks and plastered close with mud. Occasionally, a brick bottom was first laid, and the body placed on it; and in such cases, we found the skeleton firmly sunk into this hard brick mass, owing to the weight of sand above it. Usually, however, the body was laid simply on the sand, without any brick floor. This type of grave is still the usual form of burial in the modern cemetery near by, employed by those who do not possess brick-built mastabas. In these graves, the pottery offerings were all placed above the brick covering of the corpse.

IV. Slipper-shaped pottery coffins. These belong to the XVIIth and XIXth dynasties. Most of them bore a modelling of the face and hands of the deceased, and several were well painted. Pottery offerings were placed outside of these, at the head or at the sides.

V. Double Ziyeh burials. Two large pots, each from 3 to 3½ feet high, and about 2 feet in diameter at the top, were placed mouth to mouth with the body enclosed within them.

VI. Half-pot burials. In three graves, bodies of adults were found buried with the upper portion of the body laid inside a large pot about 3 feet long, 14 inches in diameter at bottom, and 26 inches in diameter at the mouth. The rest of the body was unprotected.

VII. Pot burials of children. These formed a very numerous class in this cemetery. In almost every case, a large water or oil jar, or later, a wine jar was employed. The bottom was knocked out, the child placed inside, with its head invariably at the mouth end, and both ends were then closed by clay saucers or broken pieces of jars.

VIII. Stone coffins. Very few of these were found, and in no case were they inscribed.

IX. Clay oblong coffins. In one case, an oblong box of clay, dried in the sun, was employed for the burial of a child.

X. Wooden coffins. In several graves, a flooring of wood under the skeleton, and fragments of decayed wood were found, from which it would appear that wooden coffins were also used.

We now proceed to the description of selected graves, taking the classes in the above order, and following the date in each class. For references to the plates, the pottery is all numbered consecutively 1 to 555, referring to Pls. XXXIX B, C, D, E, F, G, H, J and K; the scarabs are marked S. 1 to 57, referring to Pl. XXXVII; the amulets are marked A. 1 to 57, referring to Pl. XXXVIII.

53. I. SAND-PIT GRAVES

XVIIth dynasty.

Grave 1. An ordinary sand-pit burial, close on the edge of the heneh fields, and with the sand so denuded by schakkin that the skeleton was only a few inches down. It was that of a woman laid on the back at full length, with the head to the west. At the head, one roughly decorated pot, and a red baked saucer were found (see 41, 79 in Pls. XXXIX C, D); the latter containing the vertebrae of an infant. Under each ear was a large silver-gilt hair-ring (Pl. XXXVIII, and Pl. XXXVII A as no. 26).

Grave 5 resembled grave 1 closely in every detail. The pottery is of the leather-bottle Cypriote type (Pl. XXXIX B, 10). The pans nos. 27, 46, 47 were with it.

Grave 6. The arrangement of the body was the same. The grave contained one red baked pot, no. 50, a saucer of the same kind with a flat bottom, no. 42, and a porphyry vase. A gold-encased scarab, S. 5, and an oblong glazed bead, S. 16, inscribed on both sides, were found at the neck. Another scarab with scroll pattern surrounding a scorpion, A. 1, and set in a silver ring, was found by the side. Some tiny carnelian beads complete the contents found.

Grave 95. The skeleton lay on right side, head to west, hands on sides, face to south, body fully stretched. One flat glazed bead, S. 41, ¼ inch thick, with a scarabacus on each side, a scarab, S. 12, tiny carnelian beads, and one long cylindrical glazed bead were found near the head.

Grave 123. The skeleton lay on left side, with
head to west, arms and legs stretched to full length, and face to north. Glazed beads, green and yellow mixed, very tiny beads, a bronze bracelet, and two scarabs, S. 13, 35, were found about the neck and chest. A small bronze ring was also found at a higher level in the sand filling.

Grave 151. The skeleton lay on back with head to north-west, and face up. A considerable quantity of blue glazed flat beads were found at the pelvis. One blue glazed figure of Bast, A. 26, two smaller glazed pendants, and a black scarab, S. 28, and another, S. 36, complete the contents.

Grave 168. The skeleton lay on back, head to west, and face to south. A large quantity of flat glazed beads, coloured blue and black, were taken from the pelvis. These particular beads of about \(\frac{1}{2}\) inch in diameter were found in a large majority of the graves in the same position. At the right wrist were found glazed bars with four holes pierced in them, which had been used to form a bracelet of four strings of these beads, the two bars being employed to keep the strings in position. At the left wrist, six glazed scaraboids were found, being part of another bracelet, and, under the chin, glass beads of three colours, blue, white, and black.

Grave 172 was a burial of the usual sand-pit type. The skeleton lay on back, head to west, and resting on left cheek. Under the right ear were found a pair of silver-gilt hair-rings, as A. 11. Five small, round, and slightly larger cylindrical carnelian beads were found in the neck. A bronze mirror, the wooden handle of which lay in pieces beside it, had evidently been placed in the right hand, and was found inside the right arm. On a level slightly higher than the brow, at the head of the grave, was a false-neck pot, no. 15, and Pl. XXXVIII A, about five inches high, with red painted bands round it, and double ears and spout.

Grave 246 was a very shallow burial, the surface having been removed by sebahin. It measured 50 inches \(\times\) 20 \(\times\) 20. The skeleton lay on back, with head to west. Five kinds of beads were found:

1. The blue glazed type of flat round beads found at the pelvis;
2. Tiny glazed beads, coloured yellow, brown, and black, found at the neck;
3. Carnelian lotus-seed pendants found at neck, see A. 7;
4. Glazed pendants; and
5. Small round carnelian beads.

All except the first and fifth classes were found at the neck, and composed one necklace, the pattern of which was as follows,—two carnelian pendants alternately with two glazed pendants; each pendant separated from the next by four of the tiny glazed beads of varied colours. The small carnelian beads were found at the right wrist, and had been mixed with beads of class 1, probably to form a bracelet of several threads.

Grave 376 measured 60 inches \(\times\) 30 \(\times\) 30. The skeleton lay on back, with head to west. In this tomb a large quantity of the blue glazed beads commonly found at the pelvis, were found on the left shoulder and under the back. Under the chin, tiny glazed beads, black and yellow, and near the arm small carnelian and other beads were found. From the large numbers of the blue glazed beads found strung together these would seem to have belonged to a bead-embroidered veil or shroud. The tiny glaze and carnelian beads probably alternated to form a three-string necklace, as ivory bars triple-bored were found at the neck.

Grave 393, 60 inches \(\times\) 40 w. \(\times\) 50 d. The skeleton lay on its right side, with head toward the west. The red pot no. 62 was at the head. A beautiful blue glazed bracelet was made up of six figures of gods, a Horus eye, and an uraeus, separated from each other by seven crocodiles of the same material. There was also a small red pot, and tiny brown and yellow beads.

Grave 394 contained some beads apparently of the same type, and also traces of iron, which is unusual if so early.

Grave 438 was a double burial. The pit measured 60 inches \(\times\) 30 \(\times\) 30. The skeleton of the adult lay on its left side, with head to the west. The bones of an infant were found on a piece of potsherd lying above the pelvis of the adult. With this were blue glazed and carnelian beads.

Grave 448 measured 60 inches \(\times\) 40 \(\times\) 30. The skeleton lay on back, with head to the west. A quantity of beads, white and black, were found on the chest. The bronze rings found by the right ear beside a ring of white material (probably coloured glass) were perhaps hair-rings, resembling them exactly in shape.

Grave 489 measured 60 \(\times\) 30 \(\times\) 30; the skeleton lay on back, and with the head to the south-west. In this tomb the fine terra-cotta figure of a woman seated, playing the mandoline, was found (see Pl. XXXVII B). This unique figure is decorated with a diamond check pattern in black lines on the chest, and the musical instrument with a double wavy line, crossing and re-crossing to form a series of small
circles. It is a piece of very clever modelling. The profile and the pose of the head and neck give to the figure an absorbed expression, which is striking when we consider the very simple treatment. The piece shows evidence of Cypriote art, and probably dates from about the XIXth—XXth dynasty.

Grave 561, 30 x 40 x 30 w. Head to west, normal. The skeleton found belonged to a later burial probably, since at a considerable depth below it a quantity of XVIIth dynasty tiny blue glazed beads were found. With these beads were two white glazed bars, eight-fluted, showing that the beads had formed a bracelet of eight strings. The bars had originally been blue.

Grave 846 measured 60 x 40 d. x 30 w. Skeleton on back, head to west, a normal sand-pit burial. The body lay against the west side of the pit. In the left corner at the head was a rough red pot of the commonest type, no. 74. At the knee a red saucer, no. 38, bottom up, and an alabaster pot (XXXIX L, 1) beside it; on the left hand a jasper ring, A. 21, and jasper beads, small and flat with bevelled edges, alternating with tiny amber beads complete the contents.

54. XIXth dynasty.

Grave 45. At the head a red pot, no. 60. A three-tubed kohl-pot (Pl. XXXVIII A) of blue glaze, two bronze bracelets, some beads, and fragments of blue glaze were also found.

Grave 499 measured 50 inches l. x 30 w. x 10 d. The skeleton lay on its back, but the direction of the head was to the south-east, which was unusual. With it was a blue glazed kohl-pot of two tubes joined together (upper one on Pl. XXXVIII A).

Grave 673 : 70 x 30 x 30. Skeleton on back, head to west. A fair specimen of a male burial. One pot, no. 84, of a XIXth dynasty type, lay at the head. In most burials of males nothing was found.

XXIIInd dynasty.

Grave 93. Skeleton lay on left side, head to west, face to north, hands by sides, body fully stretched. Tiny carnelian beads, a. Horus eye of carnelian, and small porphyry beads were found.

Grave 602. A child's sand-pit burial, normal, except that four large bricks had been laid around and above the head to keep off the sand, while the rest of the body was not specially protected. A glaze Bes, 2 univalve shells, and 2 beads were found in it.

Grave 649 measured 70 x 40 x 30 w. Skeleton on back, head to the south. At the neck were a small Bes figure and five white beads, which are of a type unusual in this cemetery.

XXIIIrd to XXVIIth dynasty.

Grave 126. Here the surface had been so wasted away, that the bottom of the grave was only some five inches down. Three bronze bells, A. 41, a black and yellow glass double-faced amulet, A. 44, some iron, and several glazed beads were found.

Grave 311. Sand-pit burial of a child, 60 inches x 30 x 40 d. Skeleton on back, head to the north-east. Beads mixed at neck. A small red elongated pot, no. 201, bronze bell (Pl. XXXVII A), glaze figure of Bes, a double-face pendant of black and yellow glass, A. 43, and two iron bracelets were found on a ledge at the head of the tomb.

Grave 381 measured 40 inches x 50 d. x 30 w. Large carnelian, black and white (probably glass) beads, a large Bes figure, a large double-face pendant black and yellow as A. 44, and a piece of ivory, were found at the head.

Grave 231, probably of the Persian period. The skeleton of a young girl lay on back, with head to north-west. At the feet bronze anklets, and at the wrists iron bracelets were found. A quantity of beads were picked up from under the head, and among them two interesting scarabs, S. 50, 51, the one representing the Living Ram, the other the Living Thoth.

Grave 323, 60 inches x 50 x 40 d., was probably Ptolemaic. The skeleton lay on back, with head north-west. In the centre of the tomb a heap of pottery was found, comprising rough red pots (no. 292), and saucers (no. 220), all broken, 5 blue glaze saucers (XXXIX L, 9, 10, 13, 14), an alabaster broken at the top, and a ring pot-stand. Apparently no sort of arrangement had been intended. All were deposited in a heap above the lower part of the body.

55: Roman.

Grave 277 measured 50 inches l. x 30 x 30. The skeleton of a child lay on back, with head to south-east. Beads were found in the following order, 8 carnelian (of 6 different types), 1 quartz, 1 glass, and 8 glaze (of 5 different types). A few small beads were found scattered.

Grave 291 : 40 l. x 30 x 20 d. Child with head to west. Beads of several kinds and sizes were found under the chin, of which the only pattern discernible was that of gilt beads and resinosus alternating. Cloth wrapping, and pieces of wood were found at the head, and a string of skin knotted as it had been used for stringing the beads.
Grave 341 measured 60 inches x 30 x 40 d. Skeleton on back, with head to the west. Small green glass beads, small silver paste beads, and amber beads were found mixed together on the chest. A quantity of small bronze hair-pins, and a bronze hair ornament lay at each side of the head.

Grave 439 measured 60 inches x 40 x 30 w. The skeleton of a young girl lay on its back, with the head to the west. Bronze earrings with bead pendants lay at the ears. In the pendant the arrangement of beads was at bottom a small amethyst, lozenge-shaped drop, above it four beads, paste, blue, green and black, strung on thin bronze wire. In the necklace the order seemed to have been green, carnelian, and yellow in rotation. A small bronze spoon of the Roman period was also found, and a pin of bronze, A. 50.

Grave 490 is a normal sand-pit burial, but it was remarkable for the deep layer of what looked like fine bluish ashes, under and over the whole skeleton to a depth of three inches. It was most likely the dust of the decayed folds of wrapping which had originally enclosed the corpse. A similar layer was in graves 566 and 588. Five large coloured beads were found, two under each ear and one on the chest.

Grave 492: 50 inches x 30 x 15 d. The skeleton lay on its back, hands by the sides as usual, and the head to the west.

The grave is remarkable for the many and varied ornaments taken from the neck and under the head. There were found:

1. A large bronze toq round the neck, badly corroded.
2. An ivory toq about \( \frac{1}{2} \) inch broad and \( \frac{3}{4} \) inch thick, in pieces.
3. Twelve ivory pendants, one a head and face, two barrel-shaped and pierced through in parallel rows of three holes each, two crosses (Coptic), and the others more or less rudely shaped and ornamented.
4. Large amber beads, mixed with small paste beads. These two alternated types of beads seemed to have formed a necklace along with the ivory pendants (3).
5. Several bronze and silver rings mixed.
6. One large blue glass (?) bead, probably used as a hair-ring.
7. A collection of iron rings under the head (as noticed before), which had been anklets or bracelets.

(8) A coil of the bronze wire used to thread the beads, with several beads on it.

The custom of piling all the ornaments and jewellery in a heap by the head is not observed in earlier burials.

In grave 494 the following types of beads were found under the chin. Small round yellow glass beads, small blue beads evidently strung separately, larger glass beads imitating amber, amber beads (large), blue glaze flat beads of the kind found at the pelvis in earlier burials, glaze beads of the same make but coloured yellow, brown, black and light blue, long thin cylindrical beads of blue glaze, all so inextricably mixed up that no clue could be got as to the original pattern. Bronze earrings, and bracelets (plain ring and wire twisted) and iron anklets were found also near the head.

Grave 630 measured 60 x 50 x 30 w. Skeleton on back, head to the west. On the right breast lay a fine bronze writing-case, Pl. XXXVII B. Like the brass writing-case in use at the present day, it was made evidently to be carried at the waist. The bronze cylinder held the long, thin reeds for writing, the end below the ink pot retaining it in the belt. Thus the ink pot was upright ready for use. The conical top-of it had a small hole to slip the reed through, and the black powder of ink is still inside. At the head lay a glass bottle about 14 inches long, its body being uniformly about 2 inches in diameter, and the neck short and narrow in proportion (see Pl. XXXVII B, middle of group).

Grave 660 contained carnelian and other stone beads in a heap at the neck, a broad bronze bracelet at right hand, 2 bronze rings on left hand, a bronze bell at the right hand, and 2 large rings on the mouth, which may have been bracelets, but more likely nose-rings.

Grave 662 had amber beads at neck, iron rings, probably nose-rings, on the mouth, bronze bracelets at wrists, and iron anklets.

Grave 666: 60 x 30 w. x 20 d. Skeleton on back, head to the west. Above the face a small glass bottle with vertical fluting at the neck, a bronze toq flattened and pierced at one end, and a pair of bronze horns (A. 55 and Pl. XXXVII A).

Grave 678, head to west. On right arm two bronze armlets, on left breast a bronze bell, at left ear a large thin bronze ring and finger-ring, at right ear one earring, under the chin a coin and beads were found. The bones in this burial were of a peculiar
pink colour due to the action of some chemical, or perhaps to the dye of wrappings now decayed. This same feature was observed in only one other tomb.

Grave 725 contained several glass vessels. A large glass jar is decorated round the bowl in a diamond pattern of raised glass threads (see Pl. XXXVIII A, base); the neck was lost. This jar was about 8 inches in diameter. Near it lay a smaller glass bottle 3½ to 4 inches long, flat, decorated down the middle of both sides with a glass band, which at the shoulders formed an ear at each side (see above the jar). The large black glass bracelet is about ¾ inch in breadth, decorated with raised parallel ridges all round (see over previous figure). Another small round glass bottle, plain, and many fragments of broken glass were also found in this tomb. Ivory hair-pins (as A. 51) and ear-plugs of wood (as A. 24) lay at the head. The glass was all found behind the head.

56. II. Side-scoop Graves

These were enlarged sand-pit tombs, but instead of the body being placed in the bottom of a square grave, it lay in a hole scooped out on one side of the pit and usually built up with bricks afterwards. There were very few of this class in this cemetery, and no two of the same period. They will be more fully discussed in connection with the Cemetery of Ghyeta.

Grave 545, 50 l. x 40 x 40 inches, was of a child, with head to east. Iron anklets, bronze bells, univalve shells, and glazed figures lay in a heap at the feet. The figures included a Bes and a crocodile, A. 37. There was also one glazed bell pendant, and another of bronze, A. 41. Three flat saucers of a rough make were taken from the filling. They were of the type commonly used as lids for larger pots. The contents indicate a burial of the XXVIth dynasty.

Graves 417 and 485 were both child-burials of this class. The hole was scooped out on the west side of the pit. They measured each about 50 inches l. x 40 w. x 40 d. In 485 bronze and iron bracelets and anklets, and beads were found, all of types that would indicate a Roman date. The head was to the north.

Grave 662 is best classed with these. The shaft (40 inches l. x 20 w. x 60 d.) led down to two underground rooms, one on the west and one on the north side, cut into hard gebel. The rooms had been walled and roofed with sun-dried bricks, and the entrances from the shaft had been built up. The skeletons lay with head to west. A silver earring, A. 18, and bronze pin, A. 49, were with them.

57. III. Brick-lined and Covered Graves

XVIIIth dynasty.

Grave 139. The brick lining and covering were complete. Two rough red pots, no. 73, about 14 inches long, flat-bottomed, were laid across the face alternately with the bricks. The cakes of black mud in the bottom showed that they originally contained liquid of some sort. On the left shoulder was a small alabaster pot about 4 inches high (XXXIX L, 4), and a fine blue glaze oblong bead inscribed on both sides.

Grave 330 measured 80 inches x 30 x 30. The skeleton lay on left side, with head to the west. At the head stood a small one-eared pot, no. 101, of whitish ground with red bands. At the right wrist was a bracelet of small glaze pendants, A. 6, and four scarabs, see S. 10, 17, 19, 26, 34; a small bronze mirror lay at the waist; alabaster hair-rings, A. 12, and ear-plugs, A. 23, 24, beads, and two rings from the head, show that this was the grave of a woman.

Grave 355 was 80 x 50 d. x 40 w., brick-lined and arched. Skeleton on back, with head to west. At the head the bricks of lining, instead of lying across the tomb formed a triangle in which space lay the head. From this triangle the arch sprang, but so as to leave a clear space outside of it, in which were deposited two red pilgrim-bottles, nos. 110, 111, and a small one-eared white pot.

Grave 378 was 80 x 40 d. x 30 w. Skeleton lay on left side, head to west, face to the east. The body had been swathed in cloth. On the chest and under the back were blue glaze beads, such as were usually found at the pelvis, tiny blue beads, black, brown and yellow; small round carnelian and garnet beads which alternated to form a necklace, and a small scarab, S. 24, were found. The brick lining was complete, but the covering had gone.

Grave 437: 60 x 40 x 30. The skeleton lay on back, with head to west. The grave was brick-lined all round. At the wrist of right hand, tiny glaze beads—yellow, brown, blue, and white—and at the pelvis, a quantity of the usual blue glaze type were found.

XIXth dynasty.

Grave 150. Skeleton on back, head to the southwest. Two blue glaze figures of Bast, A. 35, a small red saucer, and a jar, no. 62, lay at the right side.
At the north corner of the grave, a considerable distance away, lay a pot, no. 104.

**XXII**/rd dynasty.

Grave 304 measured 60 inches x 40 d. x 30 w. Skeleton on back, head to west. Under the head were two figures of Bes, two bronze bell pendants, A. 41, one double-face pendant black and yellow, A. 44, and one large bead with projecting knobs, A. 42. **XXV**/th dynasty.

Grave 308 of this class was normal, but is notable for the fact that the skull was found deposited outside of the tomb proper, and on the top of the brick covering, as if the head had been cut off at time of burial and purposely buried separately. Beside the skull were found bronze bracelets, and a small scarab, S. 45, with the uraeus and "Son of Ra." Under the skull were iron anklets.

**Ptolemaic.**

Grave 242 contained parts of four skeletons laid across a normal sized grave, with the heads towards the west. The grave measured 60 inches l. x 40 w. x 50 d. The bodies lay on their left sides. Two complete ones in the south end, with the legs doubled up to fit the space of 40 inches. The third seemed to have lain on right side facing these two, but the skull lay on its face. The vertebrae showed the original position of the body. The legs had completely disappeared if they were ever there. Of the fourth skeleton only the skull and a few vertebrae remained. The skull lay face up, and the body probably lay on its right side.

At the left ear of the first complete skeleton a bronze earring, between the two a small red pot, no. 202, and where the knees of the second and third would have met a large red pot with short neck and abruptly bulging shoulder, as nos. 104, 109, were found.

Grave 101. The body lay on the back, with head to north. Under the ear a large jasper pendant, A. 27, and two carnelian hair-rings, as A. 13, and in another part a pot, no. 283, and a usual Ptolemaic flask, no. 327. This burial if not of mixed dates has certainly re-used earlier objects of the **XVII**/th dynasty. The brick sides were complete, but the brick covering, as in most cases, had mingled with the sand.

Grave 663 was on the western edge of the gezireh. The body lay on its back, with head to the northwest. To keep the head in position, a brick was placed at each side of it, between it and the brick lining. The brick lining and covering were complete. At each ear was found a gold earring of considerable weight, A. 57, with a spherical gold pendant covered with globules; see also **XXXVII** A. Another flattened gold earring was picked up in the filling. On a finger of right hand was a bronze ring of double-snake pattern, A. 54.

**Roman.**

Grave 672 was at the north-west corner of the gezireh, where the sand filling was almost completely removed. At the head of what had been a brick-lined grave were found a ribbed drinking pot, no. 346 A, a red ribbed bowl about 4 inches deep, no. 346, and inside the latter, a small glass bottle.

**58. IV. Pottery Coffins—Plain and Ornamented—Slipper-shaped**

**XVIII**/th dynasty.

Grave 8 contained a red pottery coffin about 6 feet in length, placed with head to the north-west. The skeleton lay face down. A scarab, S. 14, was the only thing found inside. Outside the coffin, at the head, were two pots, nos. 57 and 80.

Grave 211. The coffin lay with head to west, measured 6 feet in length, and had a woman's face moulded on the top of the lid. The lid measured about 2 feet in length. The skeleton lay on its back. At the ears were found silver-gilt hair-rings, as A. 11, at the neck, carnelian beads and pendants, as A. 7, and, at the waist, three small scarabs, S. 29, 30, 31.

Grave 331. The coffin lay with head to the west in a grave 80 inches x 40 w. x 50 d. Body on back. At the wrist a blue glazed bracelet of new eyes was found, A. 8. Outside the coffin at the right shoulder stood a rough red pot, no. 43, of a common **XIX**/th dynasty type.

Grave 507. The pit measured 80 inches x 60 d. x 40 w. The head was toward the west. At the right hand corner outside of the coffin a rough red pot, and inside two carnelian hair-rings, as A. 13, were found. The coffin lid bore a woman's face.

Grave 821 contained the finest pottery coffin found in this cemetery. It measured 7 feet in length, and was very fairly painted and inscribed, the lid bearing a woman's face. The pit was 100 inches x 50 d. x 40 w. At the head on the right side and outside the coffin stood a large red double-eared amphora, which appears to be a later Roman burial, no. 342. But in the filling was found a small red pot of the **XVIII**/th dynasty, no. 58.

Grave 269 contained a pottery coffin with the face of a woman on the lid and lying with head to north-
west. The grave measured 80 inches × 30 d. × 40 w., and the coffin was about 6 feet long. Outside of the coffin at the right shoulder were placed a red saucer, and a tall red pot, no. 63.

Roman.

Grave 446 contained a plain coffin evidently of the Roman period. Near the head inside were found a silver (?) bracelet, amber beads, 20 bronze hair-pins, and a large quantity of small round glass beads, coloured yellow, green, blue and white. The head was to the west.

In all these coffins the lid was a separate slab about 2 feet long, fitting neatly into a hole at the thick end of the coffin, just over the head of the body. Where there was a face it was on the lid, and had been evidently moulded in clay separately, and then affixed to the lid before it was baked. The face often came away as a separate piece.

Probably every one of these coffins had been more or less rifled at an earlier period. Some of them were found only a few inches down, and the šebkhi might discover them when an ordinary pit tomb would escape their notice.

59. V. Double Ziyeh Burials

Only two of these were found in this cemetery. They were frequent in the Cemetery of Ghyeta.

In grave 650 two large pots, each 36 in. long, placed mouth to mouth, enclosed the body. The pots were of a very rough type and evidently belonged to a late date. The head was to the west. Nothing but the skeleton was found in them. The tomb was on the far west side of the gezireh.

Grave 679 was in the same part of the cemetery. The head was to the north-west. The skull was quite separate and stood with face to the north-west end of the pot. The skeleton seemed to have lain on its face. The pots were very rough. Both burials probably belong to the Roman period.

VI. Half-pot Burials

In grave 292 the upper half of the skeleton (from skull to pelvis) lay inside a large pot, about 3½ feet long, and about 26 inches in diameter at the mouth. The lower limbs were unprotected. A complete iron knife in a leather sheath was found at the feet. The burial is of Roman date. The head was to the west. The pot was of a late date and very rough type.

Grave 477. The pot was of slightly different shape and of an earlier type. It measured 5 feet long, and 30 inches in diameter at the mouth. Nothing else was found to indicate the date.

Grave 482 is another of this class, and settles the date of them. The pit measured 70 inches long × 30 × 30. The head was to the west. The bronze earrings, beads, and bronze bracelets found belong distinctly to the Roman period. Only these three instances of this type were found. They appear to be unusual, and to belong to the poorer classes.

60. VII. Pot Burials of Children

In grave 154 there was a red pot of XVIIth dynasty type, containing a few tiny glaze beads of the same age, with an infant's bones.

Grave 334. The pot measured about 3 feet long, with neck broken off at shoulder, and bottom complete. The body of a child was inserted feet first; and being too large for the pot, the legs were doubled up, to make it fit in. The head was to the west.

Grave 823 contained a three-handled jar, no. 124. The head of the child was at the mouth, and to the north-west. In the pot were found a few fine jasper beads of XVIIth dynasty.

Of about the XXIIInd dynasty there are the following:

Grave 118. Here a pot with a face of Bes had been used. It was found broken; and near it a small red pot, no. 98.

Grave 119. The pot measured 30 inches long, and 15 inches wide at the widest part. The neck was too narrow to admit a body. The bottom had been broken off, the body inserted head first from bottom end, and both ends closed afterwards with sherds. One large bead like four round beads joined side to side, three glazed beads, and a figure of Bast were found.

In grave 147 the pot was rather rounder below than no. 123; it was actually worn through by the continual traffic of people passing over it. There was found in what remained of it, the complete skeleton of an infant, along with three bronze bracelets, four carnelian beads, a rough white bead, and a rough scarab bead.

In grave 416 the pot was a plain wide-mouth flat-bottomed pot, no. 121, 28 inches high, and 20 inches greatest width. The skeleton lay with head in the bottom of the pot, and toward the west. A large basin, no. 26, covered the mouth. Beside it stood a globular jar, no. 103. This pot closely resembles the type of which we found so many at Sharanba. Iron bracelets were found beside the skeleton.
Roman.

Graves 553, 554. The pots were of the dark brown and ribbed type, no. 354. They were usually broken across at the shoulder; sometimes the neck and shoulder were complete, and the bottom end broken for the admission of the body. Both ends were closed in the usual way, with sherd:s. In grave 553 the narrow mouth of the jar was sealed with clay—the skull lay in the bottom, and towards the east. A small vase, no. 314, was taken from the filling. In 554 the skull was at the mouth end.

Grave 657. The pot had a rounded bottom, as no. 82, and the body was of uniform width up to the shoulder, where it was broken as usual. A red band of decoration ran round the lower part. The mouth was closed with the bottom end of a similar pot. Beside the pot were placed a small glass bottle, and a two-handled, ribbed drinking pot, with the usual spout. The head of skeleton was to the south-west, otherwise normal.

Grave 830 contained the burial in a jar, no. 350, which is inscribed with what seems to be a mixture of Greek and Roman letters, doubtless a record of the wine which it had contained. A scarab, S. 54, in this grave had the ankh in the middle surrounded by a row of concentric circles.

In part of the gezireh, close to the east fence of the market-place, very few burials of adults were found, while pot burials of children abounded. Sometimes as many as five or six of them were buried in one pit, and dozens are passed over here because they simply repeat the above details. With very few exceptions, the head was at the mouth end of the pot and usually toward the west, though they do not seem to have paid so much attention to the direction of the body in the case of children. Where the pot was large enough, the body was never doubled up, but lay quite straight.

No case of mutilation in any form was found, and the bodies had apparently in every case been wrapped in cloth before burial.

61. VIII. STONE COFFINS

Only two stone coffins were found in this cemetery. The one in grave 363, was a fine limestone coffin cut in one block, 80 inches long \(\times\) 20 \(\times\) 20, and about 3 inches in thickness all over. It lay north and south, but had evidently shared the fate of most of the pottery coffins. The natives had grubbed down to it, and rifled it. No trace of the lid was found, and there was no inscription on it, nor bones inside. It was surrounded on every side by graves of the XVIIIth and XIXth dynasties.

Grave 684. Our attention was drawn to the other by the natives of the village at the far west side of the gezireh. They had unearthed and reburied it. It was not, like the former, cut out of a solid block of stone, but was evidently made up of slabs appropriated from some building, and cut down to suit. The front side of it, and the lid, were entirely gone. The corners had been plastered. There was no inscription, or other indication of its date.

IX. OBLONG CLAY BOX COFFIN

Grave 384 was unique. It contained the burial of a child in a hard clay oblong coffin measuring 45 inches l. \(\times\) 20 w. \(\times\) 8 d. The sides were about 1 1/2 inches thick. The head was to the north.

Inside a small bronze mirror was found. The burial belonged probably to the XVIIIth or XIXth dynasty.

X. WOODEN COFFINS

Traces of wood were quite common throughout the cemetery, but in a few cases there was so much as to suggest that originally wooden coffins had been used.

In grave 379 a complete wooden floor was found under the corpse, and traces of decayed wood in the filling. This was an XVIIIth dynasty burial; the pit measured 60 inches l. \(\times\) 30 \(\times\) 30. The head was to the west. At the neck two blue and white beads alternated with two yellow to form a double string necklace. A quantity of the usual blue glazed beads was found at the pelvis.

62. THE CONTENTS OF THE GRAVES fall into three main classes, (1) Domestic, (2) Personal, (3) General.

(1) To the first class belong most of the larger pottery found in the graves. What the exact uses of these pots were, it is not easy to say. Many were doubtless water-jars, especially the class of peg-bottom Roman pots. Many of the later pots, including those described, would have been wine-jars. Others served as cooking pots, and seem to have been buried just as they were taken off the fire, with their bottoms burned black. Some even of the very small pots, with rounded bottom and short wide neck, were burned black. Others were probably used to hold meal and flour, and oil.
The contents of every pot were carefully examined and noted when emptied. It was very common to find a cake of mud in the bottom of some, especially the common rough red pots of the XVIIIth and XIXth dynasties, showing that the pot had originally contained some liquid, now completely evaporated. These cakes may yet be analyzed. Many were found sealed with a lump of mud on the mouth. They (graves 313, 382) were usually large pots, and had contained something of flour, or meal, or grain. Traces of grain were found in several. The largest pots were, of course, those used to contain the burials of children. Basins and saucers of many forms, dates and sizes, were found; and one particular class of small rough saucer, with abrupt out-sloping sides, about 1½ inches deep, were undoubtedly used as lids for various large pots. They had been used for cooking pots, as well as for pots that required to be sealed.

(2) The class of personal ornament is much more varied.

(a) The beads of many varieties and materials were of the utmost value in dating the graves. The most common materials of the earlier period were glazed pottery, blue and other colours, carnelian, and jasper; and, of the later period, glass, paste, carnelian (rough) and amber.

(b) Finger-rings, earrings, hair-rings, hair-pins. Finger-rings were found of silver, bronze, blue glaze, and carnelian. Earrings of gold, silver, and bronze. Hair-rings had a slit on one side for the admission of the hairs of the tress on which it was placed. The finest found were also of the oldest period. They were of silver, and gilded (see Pl. XXXVII A, fig. 26). Hair-rings of carnelian, jasper, and limestone, were common; and occasionally large ring beads seem to have been worn in the same way. Hair-pins of bronze were found, sometimes as many as 20 or more in one grave. Ivory hair-pins were not so common as bronze.

(c) Mirrors, bracelets, toqs, and anklets. These were extremely common in bronze. The fine bracelet of glass has been referred to in sand-pit graves, Roman, 725. Many iron rings were found, which were apparently heavy bracelets and anklets. Bracelets of ivory were also very common, and in children's tombs, sometimes anklets of ivory were found, and small finger-rings.

Toqs of bronze, for wearing round the neck, were found in some of the Roman burials, and in one case a toq of ivory.

(d) Pendants and scarabs. A great variety of pendants in blue glaze, carnelian, and jasper were found. The commonest were the glaze figures of Bes and Bast, found mostly in children's graves.

The finest is a necklace of carnelian face-pendants (see Pl. XXXVII A, no. 82); another of carnelian pendants, of the lotus-seed form, A. 7, and others of jasper of the same type.

The double-face pendants, black and yellow in colour, A. 43-7, bronze pendants, cats, Isis and Horus, were not uncommon. The bronze bells so usual in children's graves ought, perhaps, to be included in this class.

The scarabs are all reproduced in Pl. XXXVII. The following are notable: one of Unas of dynasty V, one of Queen Thyi, and one where Ramesses II is represented as being carried on the shoulders of the priests (grave 50) in the sed festival (Cairo Museum).

Throughout the whole examination of these various burials, strict watch was kept as to the class of graves containing scarabs, and all were found in burials of women or children. In no case can we say a single scarab was found in a man's grave; but this is probably only a result of the general rarity of any objects or ornaments in men's graves.

(e) Ear-plugs were quite common in the earlier period. They were of limestone, wood, and ivory (see Pl. XXXVIII).

(3) General. Under this head we must class the stone vases, and small ornamented pottery vases (see Pl. XXXIX L), the various terra-cotta figures, Roman lamps, Roman glass bottles, bronze writing-cases, iron knives, ushabtis, and tables of offerings. The large pot no. 355 was not found in the cemetery, but was purchased in a house near by, where it had been used by three generations for the storage of henneh leaves. The ears are both inscribed with apparently early Arabic writing.

63. On a comparison of the dates of these graves, it will be at once remarked, that the burials of the XVIIIth and XIXth dynasties, and those belonging to the period of Roman occupation, greatly outnumber all the others. There are few belonging to the XXIInd or XXVIth dynasty, and the contents of these are not very decisive; while the XXXth dynasty does not appear to be represented at all. We are free to infer from this, that the town of Goshen was a flourishing place in the XVIIIth and XIXth dynasties, and I feel sure, that what we have found is a mere remnant of what might have been found here, before the henneh fields made such inroads upon...
the gezireh. It is a safe inference also, that the town was a place of some importance in Roman times. But, because the period intervening between these two is so poorly represented here, it would not be justifiable to infer that the place was almost abandoned then.

From Dr. Naville's work, we know that Goshen was of considerable importance in the XXXth dynasty, and the second king of that dynasty was the donor of its famous shrine. It may be that the portion of the gezireh used in that period for burial, was absorbed by the surrounding cultivation. But it is more likely that the intervening burials were in the Cemetery of Suwa, which we are next to describe, where the vast majority of the graves belong to the XXVIth dynasty and Ptolemaic times, while those of the XVIIIth or XIXth dynasty and the Roman period are very scarce. The two cemeteries are but a mile apart, and they seem to be complementary. What would tend to confirm this is that there are no ruins of a Ptolemaic or XXVIth dynasty town anywhere near to the Cemetery of Suwa, except the ruins of the ancient Goshen. Two miles to the east of Suwa, beside another little modern town, which would stand full two miles south of Saft el Henneh (Goshen), we found a patch on the edge of the gezireh (now used as a modern cemetery), which was simply packed full of XVIIIth dynasty interments; and away further south, on another portion (see tombs 217-47, Suwa Cem.), where all the surface sand had been just piled in a large heap, preparatory to cultivation, we found burials of the same period (220, 223, 231). When we consider that the only town of importance in this district, at this period, was Goshen, and that no remains of any other ancient village are visible—the district being then practically uninhabited (according to the inscription of Merenptah), we are almost driven to the conclusion that all these burials belong to the same town.

In the Cemetery of Saft, the part nearest to the ancient site and the modern Saft contained the graves of the oldest date. As our men trenched inwards to the south-west, the burials became later and later, till close on the market-place they were all Roman, and most were pot burials of children. Nothing earlier than Ptolemaic was found on the far western edge. Traces of mummy pits like those of Suwa were found, these containing piles of bones all inextricably mixed up, and traces of mud plaster, coloured white and pink, on the sides of the pits.

One of the striking features of the cemetery is the vast preponderance of the plain sand-pit grave over all the other types. It is hardly likely that cheapness is the explanation of this, in a country where bricks cost next to nothing. In any case it shows that there was no religious idea of keeping the body apart from the earth. The slipper-shaped coffins date mostly from the XVIIIth or XIXth dynasties, and were contemporaneous with the sand-pits. Whether it was that they had all been opened, and the sand got in then, or not, every one of them, even the few which appeared to be intact, were packed full of sand. Similarly, in the pot burials of children, again and again they seemed so carefully closed that no sand could get in, and yet every one was full of sand. Often we felt convinced that the pot had been filled with sand at the time of the burial. On the other hand, in the case of the brick-lined, and all the pot-burials, it is difficult not to see an attempt to separate the body from the soil. The same motive, which made them swathe the dead in linen or cotton, and which in several cases made them place four or six large bricks as a protection to the face in a sand-pit grave, led to the protecting of the upper part of the body with a large pot (half-pot graves), and to the double śīyeh burials, and probably to coffin burials of every type.

Judging by the contents, it would appear that all the slipper-shaped coffins were burials of women, and most of the brick-lined and covered graves contained skeletons of men. The men appear to have been buried without any accompaniment, except here and there a pot or two at the head. With the women, on the other hand, there seemed to have been buried everything in the way of dress and ornament and household utensils, on which they set any particular value. The same holds true of the children's burials. What a mother might be expected to keep as a memento, was buried with the child—the beads, bracelets, anklets, rings, and scarabs, which the child wore, were all deposited in the grave. Child-burials probably belonging to the XXIIId dynasty have frequently a curious black and yellow double-face pendant bead or charm; and in nearly all of them were found glaze figures of Bes, the protector of infants.

It will be seen most of the pottery was found in the brick-built graves, and the pots were generally placed at the head on the same level as the brick covering of the grave. Often, however, small pots were found inside the brick lining, and sometimes it
appeared as if there had never been any brick covering.

More that a dozen graves showed very clearly the cloth wrapping of bodies, and two were specially notable for the thick pink-coloured layers of decayed cloth found in them.

CHAPTER VII
THE CEMETERY OF SUWA

BY J. GARROW DUNCAN, B.D.

64. ABOUT one mile south of the gezireh of Saft el Henneh, is another large stretch of unclaimed gebel, with several villages built on the edge of it. The village of Soweh or Suwa is one of the largest and most beautiful of these. It stands on a part of the gezireh which was a cemetery much used in the later dynasties, and in Ptolemaic times. During our work here, our road led us through lovely groves of palm-trees, and the district around is probably one of the best wooded and watered parts of the Delta. Here and there one comes upon a village pond, with trees and shrubs down to its very edge, and looking more like a small lake, than a mere pond for the convenience of the villagers and their cattle. The Romans have left very distinct traces of their work, in the shape of deep brick-built draw-wells, and brick-built side outlets for irrigation from a canal, which must have been in use in their time, the course of which can still be easily traced. In a walk through this beautifully wooded region, I came upon several such indications of the presence of the Romans, but I found also, several basalt and limestone blocks, one of which bore part of the cartouche of Ramessu II.

On the western side of Suwa, the gezireh has been so much denuded by sebakth diggers, that most of the graves here were utterly destroyed, fragments of bones being visible all over the surface. One small part, however, remained, close on the edge of the henneh fields; and this, as will be seen later, was sufficient to show that the burials in this denuded part had all been of Ptolemaic and Roman dates. A much greater part, and probably the more important and valuable, has been put under cultivation for the growth of henneh. When taking in a piece of gebel for cultivation, the natives begin by removing two or three feet of the surface sand, with a kind of flat-bottomed drag, drawn by oxen, and they pile the sand in heaps, using it up gradually for various purposes. In this way, they sometimes begin cultivating at a level only a few inches above graves, that probably contain valuable information, which is thus lost to the world, at least for the present, if not for ever. It was very annoying, in passing through the henneh fields, actually to see the rings of pot-mouths or pot-bottoms on the surface of the path, and yet be unable to unearth them. This lower portion of the gezireh west of Suwa, and close to it, was of comparatively soft sand, and easily worked, which explains why so much of it had been denuded. The higher portion was of very hard gebel, and the tombs there are accordingly of totally different classes. We began work on the higher gebel, between Suwa and the modern cemetery to the west, and adopted very much the same methods as at Saft, where practicable.

65. The graves of this cemetery fall into the following classes:
I. Sand-pits.
II. Square pit graves, which had originally been covered probably with a dome roof of bricks, to a few feet above the ground; these were plain, or lined with coloured plaster, or mummy pits.
III. Four-chambered square pits, which had been roofed like Class II, and which had a built shaft for entrance. The chambers all communicated with each other.
IV. Deep shaft-pit and chamber tombs; these all contained mummies of the Ptolemaic period.

Modes of burial:
I. Cloth wrapping.
II. Mummifying.
III. Clay face coffins. Most of these were found in square pit graves of Classes III and IV.
IV. Wooden coffins.
V. Stone coffins.

The following is a description of the selected tombs:

66. I. SAND-PITS. This class of burial was found only in one portion of the cemetery. On the north-eastern edge of the lower part, skirting the henneh fields, a narrow ridge of sand had been left, much less denuded by the sebakth. Here about 70 graves were opened and recorded. They belonged to what had been an extensive cemetery, covering all the lower and the softer part of the gezireh on the west of the village; but, as already mentioned, by far the greater part of this lower cemetery had been destroyed through the removal of vast quantities of sand by the sebakth. Here and there the remains of a grave
were found containing enough to indicate that they belonged to the Ptolemaic and Roman periods, like the rest of the graves found on this ridge. The depth measurements frequently show that there had been considerable denudation on the ridge too. The arrangement of the body was the same as at Saft el Henneh.

Grave 47 was 60 inches l. x 40 w. x 25 d. The body had lain on its back, with the head to the west. Two red pots, about 14 inches high, nos. 130, 210, another form, nos. 338, 339, which may be conveniently referred to as the two-eared cooking pot, and a very small red pot, about 5 inches high with short out-sloping neck, were found in the tomb. The first type was similar to the pottery found at Sharanba, but rougher. It had been used apparently for holding some dry material, such as meal or flour, and the neck, narrow in proportion to the body, was just wide enough to admit a woman's hand. XXVIth dynasty.

Tomb 59: 70 x 50 w. x 40 d. The skeleton lay on the south side of the pit, head to the west. Along the north side, from the top corner downwards, were arranged a wide-mouthed rough red pot, no. 263, followed by two other, no. 210. Both were burned black as if they had been used for cooking, and on one lay a saucer of the "lid" type, no. 229. The tomb contained also a black saucer of Ptolemaic make, as no. 218.

Tomb 61 measured 70 x 50 x 40 w. The skeleton lay on back, with the head to the west. Under the feet was a deep rough red basin with flat bottom, no. 225; and between the left leg and the side of the tomb a red pot with pointed bottom, no. 132, a jar, no. 154, and a smaller pot with two black bands, no. 293. XXXth dynasty.

Tomb 63 was normal, and contained two long pots, no. 205, which had held grain, and were sealed with mud. They stood by the left foot and right shoulder. At the left shoulder stood a long white double-eared water-pot, with pointed bottom, no. 212.

Tomb 79: 60 x 40 d. x 30 w. Head to north-west. No bones. Ptolemaic coin from centre. Five glazed figures from where the skull had been, including one Bes, two double-face pendants, and one pot, no. 205.

Tomb 83 contained the potsherds with the three lines of demotic inscription, XXXIX L, 16; the same words being written three times with slight modification.

Most of these sand-pits had been rifled before, as is plain from the complete absence of bones from many, and the way the pots were found in them. The pottery was frequently lying in a heap in the centre, and as often bottom up as otherwise.

67. II. Pits, Plain and Colour-plastered. On the higher gebel there was a large number of square-pit graves cut in the hard soil. Sometimes the sides of these were plastered with plain mud plaster. A few were covered with a finer plaster, and coloured blue, white, or pink, or contained coloured clay coffins. Both types are varieties of one class. Often the pits were so denuded that it was impossible to say with certainty what class they belonged to, and several of them were simply masses of bones from broken mummies. In one part of the cemetery, where grave robbers had left a hollow of considerable size, the sides of the hollow showed bones protruding in confusion, and in such numbers, that the place had the appearance of having been used as one large grave, into which bodies had been packed till it could hold no more. Among some of these, where bodies had been piled above each other with evidently nothing between, our men found such quantities of blue glaze beads of various forms, as took sometimes two days' steady work to separate from the soil.

A. Coloured plaster tombs. Grave 1 was a pit 60 inches x 50 w. x 30 d., and contained at least 4 skeletons, three side by side—two with head to south, one head to north. A fourth lay under one of these. They had not been mummied, but all appeared to have been enclosed in plaster and mud coffins. The sides of the pit were covered with pink-coloured plaster.

Grave 39 had its sides similarly plastered, measuring 80 x 60 x 25 inches deep. Traces were found of two skeletons, lying on right side with heads to west. Scattered over the tomb were eleven pots, nos. 163, 165, 200, 249, 259, 319. Most of them were full of hard mud, as if they had contained liquid. XXXth dynasty.

B. Plain pits. Some of these had contained mummies; others were plain burials with the corpse placed inside a brick-built coffin; and in others we found complete clay faces, which had been affixed to the lids of rough clay coffins.

Grave 99 was an ordinary pit of this class, and had been rifled. In it were found two small blue glazed figures and a clay moulded face, covered with white plaster, and painted green.

The glazed figures are unquestionably XVIIIth dynasty work, and give us thus a date for these clay faces. They must at least have been used at that period.
Grave 23 was a square pit, which probably had an arched roof above ground; but it is quite possible that it had been originally a deep shaft-pit grave. Inside were several mummies laid one above another, all more or less destroyed. Between two of them lay three inscribed altars, Pl. XXXIX. Three small rough red pots, no. 147, were found in the filling. XXVIth dynasty.

Grave 89 was close on the edge of the modern cemetery. It was almost entirely wasted by sebakhin. In it was found a bronze situla (XXXVIII A) with a thick mud cake in the bottom.

Grave 95 was a large square brick-lined pit, now about 40 inches deep, and 80 inches each side. It must have been roofed with bricks originally, which had fallen in. The skeleton lay on a brick-built ledge in the centre, and was bricked round and overhead. Above the brick covering over the right shoulder and arm, were laid three bronze situlae (XXXVIII A). Half-way down the filling was a rough red bowl, no. 251. The clay face of a woman, plastered white, with eyes and eye-brows done in black, and a blue glaze nsw eye, complete the contents. The grave had been opened before, though the skeleton remained evidently untouched in its brick-built coffin. It lay on the back, with head on right side, and to the west. Probably XXVIth dynasty.

Grave 101 measured 80 x 80 x 40 inches. In it were found a limestone figure of Bast (?) and a limestone bead, a blue glaze nsw eye, fifteen small pots and a small altar of offerings all scattered in the filling. The pots represent altogether twelve different types, nos. 149, 157, 158, 159, 167, 177, 179, 189, 194, 195, 198 A, 265, the most notable of which is the small pot with the dwarf ears, which serve also as the ears of a Bes face incised on the side of it. A clay face, plastered white, was also found in it. XXVIth dynasty.

In grave 131 were found a green glaze elephant pendant or charm, a blue glaze nsw eye, dark blue cat and Bast pendants, and several small flat glaze beads. XXVIth dynasty.

Grave 171 was perhaps the best specimen which we found of a square pit brick-built and arched over. It was roofed with red burnt bricks about three feet down, and the men cut through the roof. No trace of any other entrance could be found. There were at least twenty-nine skulls in the tomb. Nothing else was found but a few nsw eye beads of the XXVIth dynasty colour.

Grave 205. In this tomb several pieces of blue glaze Naukratite ware were found, of which one piece was decorated with the Assyrian winged lion. The rest of the saucer showed other traces of Syrian influence, no. 16. The bowl 242 was here also.

Graves 25 and 26 contained masses of mummy bones, in an inextricable jumble. In 25 were found three glaze figures of a necklace, and at the pelvis, beads of the usual type. In 26 were six skulls, and two small pots, nos. 280, 322, and a blue glaze figure of Bast. The small round pot contained caked mud. Both are of Ptolemaic date.

Grave 90 measured 70 inches x 60 w. x 30 d. One side of it contained a skeleton on back with head to the south. A mud face, finely moulded, lay on the face of the skull. A blue glazed necklace was found at the neck. Ptolemaic.

Grave 128 was Ptolemaic. It was brick-walled, and the shaft entrance remained also brick-built, showing how these graves were entered. A red saucer, with ring bottom, several flat blue glazed beads, a crystal bead, several glaze figures, and a remarkable bearded double-face pendant were found scattered in the tomb. It had been rifled.

68. III. FOUR-CAMBERED SQUARE PITS. The surface of these had in some cases been so worn away, that the chambers were often not more than 40 inches deep. Originally the body of the tomb had been excavated in the hard gebel. Walls of sun-dried brick were then built in, dividing it into four rooms of about equal dimensions, and in each wall a door was left so that one could walk round the whole enclosure from any one of them. The whole had afterwards been roofed with brick, the roof taking the form of a dome or arch. This type of tomb is well known at Nebesheh and Retabeh, of the XXXIIIrd—XXVIth dynasties.

On one side a square pit with or without steps led down to the only entrance. Tombs of a very similar class are built at the present day on the south-eastern edge of the gezireh of Saft el Hennah; they are usually altogether underground, and covered over with sand except the entrance pit. It is easy to see that tombs of this class would be an easy prey to the spoiler.

Tombs 106 and 108 were adjacent chambers of a pit of this class. The other two chambers were empty. The whole was 18 feet square, and about 42 inches deep. The dividing brick walls were 3 feet thick, and the chambers were all closely equal in size. Bones were found in both, and the skeletons were
apparently arranged in the usual way, with the head to the south-west, and lying on the back. In tomb 106 three pots were found (nos. 151, 177, 309), all of them XXVIth dynasty types, and fine blue glaze pendant figures.

In tomb 108 there were masses of bones belonging to at least six skeletons. Six clay faces, painted black and white, and two of them with red were found, though not all complete. Three blue glaze figures, a lead earring, and one uza eye bead were also picked up in the filling.

Tomb 135 adjacent contained seven pots of similar types and a bronze bracelet. Of these pots one had distinct traces of burnt ashes inside. In another traces of grain, in another of mud, and in another a lump of bitumen were found. For types of pots, which were all scattered, see nos. 139, 154, 195, 196, 207, 296. The stand no. 113 may be an earlier piece re-used. XXXth dynasty.

Tombs 109, 114, 115, 116 formed another such tomb. The whole measured 19 feet square and 36 inches deep. The dividing walls were 34 inches wide, and the rooms practically equal in size. The bodies lay as usual on back and with head to the south. In 109 one skeleton had been on a raised brick ledge running down the centre. Two others, or more, had been buried, one on each side of it. On the east side a large quantity of glaze beads, of 5 different colours, were taken from the pelvis of one skeleton. They were of the type usually found in the same position. A well-made red pot tapering to a blunt point at the bottom, and with mouth broken, lay at the head. One clay face, a blue glaze bird pendant, and a blue glaze figure of Bast were also found in the filling. At the head of the burial on the western side were found a small flat limestone slab, well-finished, measuring about 8 inches square and 1 inch thick, and what had been the base or capital of a small limestone pillar. This latter measured about 5 inches square at bottom, and the circular part above it was about 4 inches in diameter (see A. 76). Neither was inscribed. Behind these two stones at the very head of this burial on the western side three pots stood—one a curious red baked drinking pot of the XVIIIth dynasty (see Pl. XXXVII A), with a gazelle's head at the bottom. The other two were of much coarser types and distinctly of a late make, no. 318. No beads were found.

In the centre the skeleton lay in a brick-lined space, and had been covered over with bricks, another burial having been placed on the top of it at a later date. At the pelvis of the lower skeleton a large quantity of beads of the usual type were found. In tomb 114, jar no. 213 was found.

Tomb 115 was the south-west chamber of the group. On the east side of it, with the head just at the door leading into tomb 116, the body evidently of a woman had been buried. At the chest and pelvis large quantities of glaze beads were found, of five different kinds. Those found at the pelvis were of the usual type, and coloured red, blue, and black. At the chest beads of this type were mixed with small round glaze, single and double, beads. In this same chamber at the door leading into tomb 109 three small vases of the Greek black and red type were found, nos. 17, 18, 19. They had evidently been buried at the feet of a skeleton, which had entirely disappeared, and they lay quite close to the three pots found in tomb 109.

In all these four chambers the skeletons lay on the back, and the head invariably pointed to the south-west side of the tomb. They were not mummies, the bones were all white, and they had probably all been originally enclosed in rough mud coffins with clay modelled and painted faces on the lids, as in neighbouring tombs of the same type.

Tomb 190 (S.W. corner) contained bronze rings, blue glaze pendants, and a black and yellow double-face pendant.

69. IV. SHAFT-PIT AND CHAMBER TOMBS. These were all mummy tombs of the Ptolemaic period, and naturally they were found in the part of the gezireh where the ground was hard gebel. There had at one time been a great many more than now exist, and we left many unopened. At several places the natives, not caring to seek the shaft, or in the process of carrying away the black earth for sebakh, had worked straight in from the face of the upper part of the gezireh, often thus clearing away the shaft and all the earth above the roof of the chamber, so that we found chambers of shaft-pit tombs on the present ground-level. Several of these had elaborate stairways down to them to a depth of 12 or 15 feet, but usually there was simply a shaft of about 30 inches square leading straight down. At the bottom of the shaft the doors of the chamber were invariably built up with brick. As a rule no jewellery or pottery was found in any of these, nor any indication of the date beyond what the mummies themselves afforded. In one or two altar slabs were found. They will be noted afterwards.
Two mummy. This thick plain needed—there was another complete limestone altar, and under the bricks a portion of a third was found.

Tomb 146. At the bottom of the shaft the door of the chamber had been built up with burnt bricks, afterwards covered with a thick coating of mud plaster and painted red. Several mummies were found in the chamber, all badly broken. Near the side wall of the chamber two more of these flat altars, one inscribed, were found (no. 42). A small black pot, neck broken, was also found in the filling.

Tomb 21. Here the shaft was about 12 feet deep and the chamber measured 8 feet x 4. Two bodies lay side by side on back with heads to the west. They were finely gilded mummies of the Ptolemaic type, but so brittle that even the heads could not be removed entire.

Tomb 41. The shaft was quite cut away here by *sebakhin*. A terra-cotta figure of a woman with a large aureole behind the head, was found in the filling only 30 inches under the present surface: this type is common in early Roman times.

70. THE DISPOSITION OF THE BODY. From the various burials described, it will be seen that, in the disposition of the body, five methods were followed in this cemetery.

1. Wrapping. In the sand-pits, the body had simply been swathed in linen, and placed on its back, with the hands by the sides, and the head as near as possible to the west.

2. Mummifying. After the body was preserved, it was wrapped in many folds of coarse linen, plastered on the surface, and painted and gilded. The body was laid in the usual direction, head to west.

3. Clay face coffins. In all the square pit tombs, whether four-chambered or not, the bodies seem first to have been wrapped in cloth, then placed in a rough clay coffin, one of which we found complete. On the lid of the coffin, above the face of the dead, a clay face, modelled and painted, was affixed evidently by wooden pins. The holes where these had pierced the faces could be seen. From the variety of types found, it appears that the clay faces were intended to reproduce the features of the dead. The arrangement otherwise was as usual. Great quantities of beads and pendant figures (glazed) were found in this class of burial.


(4) Wooden coffins. In some cases wooden coffins were used, and one complete wooden coffin was found in grave 28, enclosing a mummy of a type belonging to the Ptolemaic period.

In tombs 1 and 12 particularly distinct traces of wooden coffins were found. The arrangement otherwise was normal, and the burial in a square pit.

(5) Stone coffin. Only one such was found. It seemed to have been buried at the bottom of the shaft of tomb 23, where the first limestone altars were found. It measured 9 feet long x 3 w. x 3 d., and contained a mummy. The coffin had been hollowed out of a single block of limestone, and the lid was so massive that it needed five or six men to remove it. There was no inscription inside or out.

71. THE GRAVES AT ALI MARAH. Two or three miles to the south-east of Suwa along the gezireh there is a village named Ali Marah, close to which is an ancient cemetery now almost entirely within the bounds of the modern cemetery. Twenty-two graves were examined here on the confines of the modern cemetery, and every one proved to belong to the XVIIIth or XIXth dynasty. They were all plain sand-pits or brick-lined graves, and in all details of arrangement closely resembled the burials of the same date in the gezireh of Saft el Henneh.

Grave 217 was a pottery face coffin burial (slipper-shaped), and contained ten small pots of various types belonging to the XVIIIth and XIXth dynasties, two scarabs, blue pendants and other beads, a small white glaze pot with mud in the bottom, and some bronze. The pots included two of the Cypriote type, no. 6, one double-eared, see no. 111, and other foreign vases, nos. 4, 5, 7, and 8, three alabaster pots (XXXIXI L, 2), and five larger, nos. 55, 56, 61, 93, and 106. A coffin face and two small red saucers completed the contents. The burial was normal in arrangement.

In graves 226 and 232 gold earrings were found.

Graves 228 to 247 were all in this place, and the pottery and beads found in them are all of the same period. In 237 three gold earrings, and two XVIIIth dynasty pots, three scarabs, and blue glaze pendants of same date were found.

A little further to the south in a patch of sand just being prepared for cultivation, several graves were found belonging to the same date.
Graves 220 to 223 were situated here. 220 was brick-lined to the height of the body, and brick-covered, and contained one pilgrim-bottle, no. III.

Grave 221 was a shallow and narrow mud brick grave, and contained one red pot of XVIIIth dynasty, full of caked mud, and a large white basin of the same period.

Grave 222 was a pottery coffin burial with the head to the west. Inside of it were found two jasper hair-rings.

Grave 223 was a brick-built and covered grave. Outside of the covering at the head stood a large red pot of the same type and date as in grave 221.

The graves of Ali Marah and this patch of gezireh have already been commented on in my notes on the Cemetery of Goshen.
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GRAVE 20

GRAVE 37

GRAVE 43
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UNGROUNDED

UNGROUNDED

IN ORDER SHEWN BY SCARABS.

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GROUP 48

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