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627-786-24
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(629-)

JUL 16 1920 Rec'd

The Pennsylvania University Museum

From R. Burkitt

1920

Chupal

THINGS FOR THE MUZEUM

Continued list

624. An Indian woolen shawl, or blanket, from Chichicastenango, in the province of Kiché. Length (without the fringe), 1.80 metres. Width, ~~0.85~~ 0.85. Weight, 2.4 kg.

29-60-24
The style is the peculiar Chichicastenango style. The blanket is black, but with a broad band of colour at each end. The colours of that band, besides black, are red, white, and blue: combined in a curious, and so far as I have seen, invariable pattern, of squares, lozenges, and arrow heads. *Black fringe at each end*

The pattern is the same on both sides of the blanket. There is no wrong side. The work is of a kind not now much practised. When you look at the arrangement of the colours, on either side, you see at once it is an arrangement that cannot be made by weaving. And in fact, that part of the blanket is not, properly speaking, woven. The black warp threads of the blanket go the whole length of the blanket. But in the coloured part there are no weft threads going the whole width. And in the process by which that coloured part is made, you will find that the black warp threads come to be completely hidden.

These blankets are thick, and close-woven, and will keep out rain. The colours are fast. It is no longer easy to get these blankets: and this specimen, though in perfect condition, is not brand new. It has been washed more than once, and might possibly be the better of another washing.

- 29-60-25
625. An Indian woman's shirt: Cobán style, all white, with white embroidery. Made in three vertical sections sewed together. Size, 95 cm. x 85. Sides not sewed up, and neck-hole not cut out. The merit of this shirt is that there is no foreign yarn in it. The shirt is all Indian yarn, spun from Indian cotton.

- 29-60-26
626. A packet of Indian incense cakes, made of copal gum. Weight, 0.14 kg. The cakes, which are of a brown colour, are thin round flat cakes, about 4 cm. wide. - The Indians continually burn incense to the hills, and other heathen divinities, not only in connexion with agriculture, but with all the affairs of life: and these little cakes, throughout a great part of the country, are the fa-

vourit form in which incense gum iz burnt. The gum iz usually burnt along with splinters ov pitch pine. The cakes ar thrown one by one into the blaze, and in the course ov an ordinary prayer, a man wil burn any where from half a dozen cakes to a hole packet. On extraordinary ocasions he may burn many packets.

627/786. From the ruins ov Chipál: classifiable az follows:

Beads: stone, 707, 781/5: tooth, 706. See Bone, Gold (737/8),
Masks, Mother ov pearl.

Bone: 704: beads, 705, and see under Beads, tooth: carvd antler,
774.

Copper or brass: 722/32.

(Obsidian) Glass: 739/40.

Gold: 733/8, 780.- I say Gold, becauz the metal waz found in its present state, yellow and bright, and iz not afected by nitric acid.

Hatchets, stone: 697/702.

Masks, stone: 677/82.

Mil stones: 688/9.

Mother ov pearl: beads and the like, 708/15: stick, 721.

Paint: 776.

Pottery: all numbers not classified. See also Stamp, Whistles.

The only picture-pottery number iz 786.

Pyrites money: 703.

Shel: bracelets, 716/20. See Mother.

Spear, lance, or arrow heads: crystal, 773: flint, 674, 777: obsidian, 672/3, 695/6.

Stamp, pottery: 694.

Stone: chimney cover, 675: cup, 779: disk, 772: images, 669/71, 771, and see Masks: ornamental, 668, and see Beads. See also Hatchets, Mil stones, Pyrites, Spear.

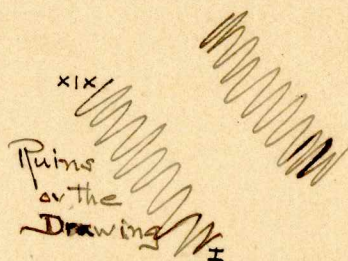
Whistles or whistling images, pottery: 655/6, 761.

Previous Chipál numbers wer 130/5 and ~~146/4~~ 146/54. They comprized axes, paint, pottery, and copper.

I rote you at length about Chipál in my report ov November, 1913. Ther haz been some clearing ov bush since then, and you can see more ov the ruins. The place iz sprinkled over with ruins,

627/786, continued

but ther seem to be three principal groups. This wil do for a



sketch ov them. One group iz the group that I sent you a perspectiv drawing ov, at the time ov my report. An other group, which iz the most easterly ov the three, iz close to the group ov the drawing, and paralel to it: separated from it by a hollow. The masonry ov that easterly group, acording to the owner ov Chipál, had originally a particularly good apearance: it waz nearly all squared stone, not plasterd over. But for that very reazon, the squared ~~ix~~ stone being convenient to the man for building hiz house, the above-ground part ov thozе ruins iz now very much demolisht.

The third group ov ruins, which iz perhaps the largest group, iz in sight ov the other two, at some distance to the west. In that group too, the man haz done some quarrying. The pot 151 iz from that group. And the mans quarryings bring to light a strange state ov things there: older and finer work, masonry ov cut stone, completely buried under piles ov later and much more barbarous work: work ov earth and stone, smoothd over with plaster.

The alinement ov this westerly group ov ruins iz probably meant to be north and south, and east and west. On account ov the height ov the mountains, the north star iz not vizible from any ov these ruins. But I took the compass bearings, and in this westerly group the compass bearings wer about N 7 W, and so on: and the 7 degrees difference ansers to the usual variation ov the compass in this country.

In the two easterly groups the lie ov the ground iz not convenient for a north and south alinement. The compass bearings in thozе groups ar about N 52 W, S 52 E, and so on. ~~I~~ Making the same seven-degree allowance, it would seem that thozе ruins wer meant to be on the true bearings ov north west, and south east, and so on. In my drawing you ar said to be looking about west by south: on true bearings, you ar probably looking due west.

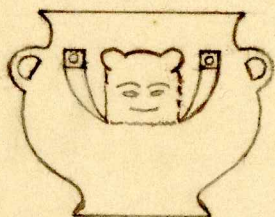
627/786, continued

The Chipál things 130/5 wer found before the time ov the present owner ov Chipál. He haz an idea, however, that thozе things ar not from the ruins ov my drawing, nor from any ov the principal groups ov ruins, but from a certain one ov the many scatterd ruins. He showd me the place, a hole at the foot ov a terrace. But see 773/4.

The things 146/54 wer found by the man himself: and so wer all theze present things, 627/786. Theze present things ar all from the two easterly groups ov ruins, and most ov them, az it happens, from the group ov the drawing. The Chipál man iz no re-specter ov ancient ruins: but az I hav said once before, he iz an exact man, and waz able nearly always to tel me, some times with great particularity, what part ov the ruins each thing came from: and hiz diggings, or quarryings, az you wil see, throw much curious light on the nature ov the ruins.

627/772. From the ruins ov the drawing. The buildings I speak ov by number ar the buildings so numberd in the drawing.

627. From number II. A big wide-moutht pot, with two handles and a round foot. Natural red colour. One side ov the ppt haz the face ov a cat beast in relief. The beast iz given a noze-ornament. At each side ov the face ther iz a curious conventional representation ov an uplifted paw, with its claws and pad. See 755. Besides the cat beast, the pot haz lines ov low spikes, or nobs, and some other slight ornament. Height, 35 cm. Depth, 33. Across the top, 35. Entire: except for a little chipt off the rim.



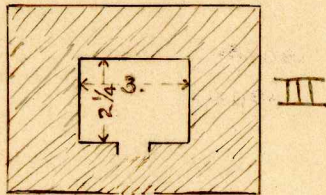
Number II, acording to the finder ov the pot, waz a mere block ov masonry. The pot waz in the ground under it, not in any chamber, but simply set in the earth. The pot waz full ov earth: not the clayish earth ov the place, however, but a sort ov sandy earth.

628/75. From number III.— The block ov stone and mortar shown in the drawing, turns out to be the roof, or the outside cap, ov an under--ground chamber: or rather ov a sunken chamber: so much sunk, however, that it iz much more below the level ov the ground than

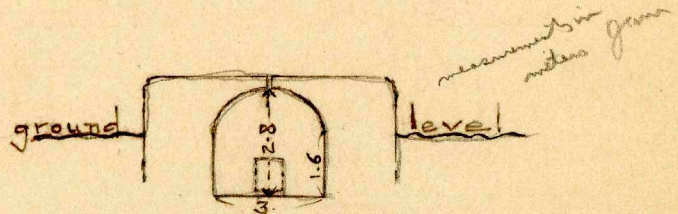
11323

628/75, continued

above it. The chamber is an oblong chamber, about 3 metres by $2\frac{1}{4}$, with stone walls and stone roof: and has an under-ground doorway exactly facing number II.



The lengthwise middle section of III would be something like this:



though of course the doorway, which I indicate, does not belong to the middle section. The stone roof, on the inside, is not flat, but dome shaped. The height of the chamber in the middle is about 2.80 metres. The height at the sides, up to the spring of the dome, about 1.60.

In the top of the dome there is a kind of vent, or as the Chimalmen calls it, a chimney: a vertical round hole, 9 centimetres in diameter. If you could reach the hole you could about stick your hand into it. The hole goes through to the outside, so that when you look up the hole you see the sky. It was through noticing that hole from the outside, that is to say, in the middle of the flat top of III, that the man discovered the chamber. He ran a stick into the hole and found no bottom. Excited by the discovery of a hollow under the masonry, and supposing that he was now about to find the treasures of Montezuma, he went to work with a pickax: and with a great deal of trouble broke a hole in the roof, big enough to squeeze through. He then let himself down with a ladder. By ~~ax~~ and by he found the under-ground doorway. Then going again to the outside, he dug a pit down to the doorway, and afterwards went in and out of the chamber by that way.

The entrance by the door is now a good deal choked up, but you can still creep through, and together with the man, I went in. The doorway, which is about 80 cm. wide and 90 high, is of squared stone, and was originally closed, the man says, by a single squared stone that just fitted. The floor, which is a little below the level of the door step, and is now covered thick with mud and rubbish, is, or was, the man says, of plaster. He believes that he de-

628/75, continued

stroyd the greater part ov it with hiz pickax, thinking ther might be something to find underneath. The walls ar laid up with stone which for the most part iz not squared, but simply fitted, and without plaster or mortar. The archt roof, also, iz without plaster or mortar.

When I saw that archt roof, or archt vault, I stood in astonishment. The arching iz not the usual Indian false arching, made with level stones overlapping: it seems to be not altogether, but iz in the main, true arching. In looking at it, you seem to see the principle ov the arch, or principle ov the dome, in the act ov being discovered.

When you stand in the chamber, and look up at the vault, you see the jagged ends ov stones pointing at you from all directions. The vault iz made ov natural stones, which generally and naturally ar more or less wedge shaped: that iz, at least, they hav a big end and a smaller end: and what you see pointing at you, ar the small ends. I dont supoze that the antique mason workt with any scaffolding underneath. I supoze that beginning at the bottom, he simply went round and round, laying stones, and wedging them together, and satisfied if they stuck. And whether by plan or by instinct, he generally, though not always, laid the big end out, and the small end in: with the result that he archt the roof inward from evry side, and made a very clumsy and uneven, but solid dome.

You can see the structure very wel round the edge ov the hole on top, where the Chipál man broke in. The hole haz no tendency to get bigger. The stones round the edge hav no tendency to fall. They ar wedge shaped stones, held in place on the wedge principle.

If any body should be inclined, az I myself should hav been, to dout the existence ov at least a rudimentary true dome, in Indian masonry, you need only tel him to go to Chipál, and look at the vault ov number III.- I shal hav some details to ad about the chimney part ov the vault, in conexion with 675.

628, A/K. From outside the chamber, above the door. 11 pieces fitting together. A low, flattish pot, with a narrow mouth and low neck. No foot. Smooth finish. Cat beast ornamentation. The head ov the beast sticks out like a handle, the feet ar represented by nobs round the belly ov the pot, and the rest iz incized. The beast does not look straight out from the pot, it haz its head turnd to one side. Height ov the pot, 10 cm. Diameter, 16.

11324
Humboldt?
Yes MB

628, continued

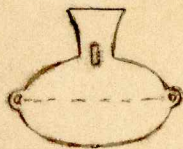
Nearly complete. See 756/8.

The man found this little pot in the course of digging down to the door, on the outside. See 628/75. The pot was upright in the ground, with the cat beast facing outwards, and the man calls it the Guardian of the door. The impressions of a finder are not to be despised, but asking the man more exactly where the pot was, he says it was not just in front of the door, but a little above it. An other instance of things outside a door, is in the case of 684/9.

629/74. From inside the chamber.- The chamber was a tomb. When the man let himself down, he found himself, not among the heaps of gold and silver he expected, but among pots and bones. The floor was covered with human skeletons. The man didn't think of counting them, but he would say there were at least a dozen. He has no remembrance of how they were placed. In the fury of his search for treasure he immediately scattered the bones. And he upset the pots, and broke things, and trampled things under foot. The things he afterwards saved were only a part of what there was.

629/67. Pottery.

629.



A small, narrow-necked jar. Red, smooth. Two side handles, and one neck handle.

Height, $16\frac{1}{2}$ cm. Diameter, 18.

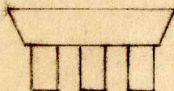
Half the neck missing.

630. The bottom of a pot, with a round foot. The pot represented a face, and this piece has the mouth of the face. Height of the foot, 5 cm. Width, $12\frac{1}{2}$.

631/3. Red bowls, or dishes, each with three feet.

631. Bottom slightly bellied. The hollow feet, which are turned out (as in 348), represent the faces of vultures. Height, 13 cm. Depth, $7\frac{1}{2}$. Width, 20. Entire.

632.



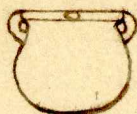
Flat bottom. The hollow rattling feet are upright and cylindrical.

Height, 12 cm. Depth, 5. Width, 23.

Entire.

633. Bowl shaped. Coarse, thick. Width, 16 cm. Rim chipped, and the three feet gone.

634/7.



Small, coarse, round-bottomed pots, with no foot. Each with a pair of handles at the neck: and half way between the handles, a slight ornament stuck on the rim.

634/5. Blackish. Rims a little chipped.

11330 634. Height, 12 cm. Diameter, 13.

11331 635. Height, 11 cm. Diameter, 13.

636/7. Reddish.

11332 636. Height, 11 cm. Diameter, 13. One handle gone.

11333 637. " 9 " " 11. Entire.

638/9. Like 634/7, but no rim ornament. Entire.

11334 638. Reddish. Height, 9 cm. Diameter, 12.

11335 639. Blackish. Very coarse. Height, 7 cm. Diameter, 9.

640/2. Resembling 638/9, but more diminutive. Coarse, blackish. Height, 5 or 6 cm. Entire.

11336 640. Plain.

11337 641. Ring ornament round the rim.

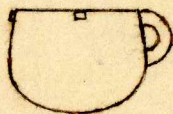
11338 642. Not bellied. Slightly glazed. Smudged inside and out with some thing like soot.

643/4. Pots like 638/9, but each with two pairs of handles at the neck, in stead of one pair. Reddish.

11339 643. A/B. Two pieces fitting together. One pair of handles bigger than the other pair. Height, 7 cm. Diameter, 10. A bit of rim gone.

11340 644. Handles all equal. Height, 9 cm. Diameter, 12. Entire.

11341 645. A coarse reddish bowl, or cup, with one handle.



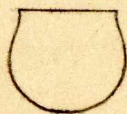
Three slight ornaments on the rim.

Height, 7 cm. Width, 11.

Entire.

11342 646/7. A pair of coarse little round-bottomed pots. Slightly bellied.

11343 Little or no neck. No handles. Height of each, about 12 cm. Belly diameter, 14. Entire.



The obsidian knife in 647 was in it. The pot was full of earth, and in the bottom was the knife.

648. A flat-bottomed bowl, with straight sides, widening a little to the top.

Inside red. Outside white.

Height, 9 cm. Width, 10.

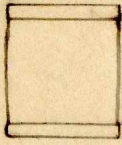
A piece out of the side.



11344

- 649, A/B. Two pieces fitting together. A cylindrical pot, with a band round top and bottom. Inside red, outside white.
Height, 13 cm. Across top, 11 cm.

11345



A small piece gon from the top, and a larger piece out ov the flat bottom.

650. A coarse little red jar, with a round foot.

11346

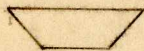
Plumbate no 10



Height 14 cm. Across the top, 7. Across the foot, 7. Entire.

651. A conical bowl. Flat bottomd. Red, coarse.

11347



Height, 5cm. Across the top, $14\frac{1}{2}$. Across the bottom, 9. Entire.

11348

652. A bowl very like 651, but with a foot, a round foot. Height, 7 cm. Depth, 5. Across the top, 18. Entire.

- 653/4. Small moveable heads, with the neck to fit into something, or fit round something. See 758.

11349

653. Human head, with ornaments. Height, 8 cm. Right ear-piece gon.

11350

654. Animal head. Height, 6 cm. Entire.

- 655/6. Whistles in the shape ov human figures, standing.

11351

655. A man with something under hiz right arm. The thing seems to be heavy, and he leans away from it. Height, 10 cm.

656. A man with a mask head-dress, and with a necklace, and other ornaments, and a long cloak. On the mans chest ther hangs, like an ornament, a small human head and shoulders. From hiz chest down, the cloak iz wide open, and you see that the man iz not naked, under the cloak: he iz clothed all over, excepting hiz hands and feet. In one hand ther iz something like a staff: but the staff iz perhaps meant for a stalk ov Indian corn. The other hand grasps what iz plainly an ear ov Indian corn; an ear ov Indian corn with the husk pulld back, leaving the ear bare. Height, 18 cm. Head-ornaments and feet damaged.

11352

657. The upper part ov an image ov about the same size az 656. A mans face looking out ov a cat-beast mask. The man haz a head dress with plumes, and haz some big round flat thing on hiz right shoulder.

11353

- 658/9. Found one inside the other.

658.



Red, coarse. A hollow cylindrical thing, open on top, and with what seems to hav been the foot, broken off. In the side ov the cylinder ther iz a window, or opening, in the shape ov a cross. Height ov the thing, 11 cm. The

11354

thing was found upright.

11355 659. The head part of a small human image. 659 was placed upright, inside 658, with the face looking out of the window.

660/2. Ornamental fragments of pots.

11356 660. A grotesk human face. Height, 11 cm.

11357 661/2. Skull faces. Height, each, 7 cm. See 769/70.

11358 663. Nothing: skipt in numbering.

11359 664. A pot-fragment showing blue paint. Length, 7 cm.

11360 665. A small, solid, pottery thing, which looks as if it fitted something else: and at the same time has some resemblance to 693. Length, 4 cm.

11361 666/7. Flat round pans, or disks, a good deal like the Chamá incense pans, 417/8. Each disk is bored with two diametrically opposite holes.

Width, $7\frac{1}{2}$ cm. Thickness, 5 mm. See 772.



668/71. Polished stone.

11363 668. Green stone, wedge shaped. Length, $3\frac{1}{2}$ cm.

11364 669. Grey stone. Spindle shaped; with shallow carving on one side, to represent a human figure. Length, 7 cm.

11365 670. A rude animal figure, probably an armadillo. Length 6 cm.

11366 671. A wedge-shaped stone carved to represent a squatting monkey. Red paint in the hollows. Height, 8 cm.

672/4. Spear heads.

11 672/3. Obsidian.

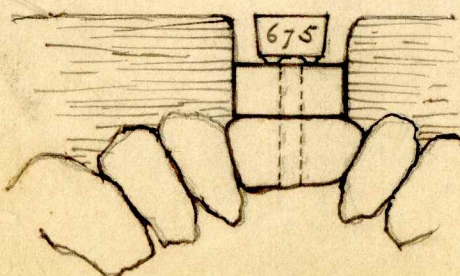
missing 672. Length, 4 cm.

11367 673. Length, 8 cm.

11368 674. Flint. Length, 8 cm.

11369 675. From the outside of III, on top of the chimney. See 628/75. - Cut

stone, brought to a smooth surface. Grey, probably lime stone: which is the common stone of Chipál. A stone of a nearly cylindrical shape, slightly widening to one end, which is the top. The top is flat. On the bottom there are four low round feet. Height, $11\frac{1}{2}$ cm. Height of the feet, 2 cm. Width on top, $19\frac{1}{2}$ cm. Width below, 19. Weight, 7.7 kg. Pieces broken off the top.



When the man broke his way through the roof, he broke through close to the chimney, but without disturbing the chimney. The chimney is still there, for any body to see. And that chimney,

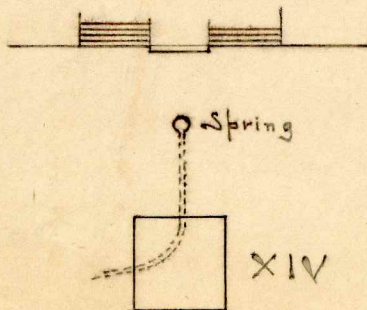
675, continued

or whatever you may call that hole, iz not a hole that waz left between the stones ov the roof, it iz a hole that goes through them. It goes through two stones, one on top ov the other. My sketch iz made from memory, but it wil giv you an idea.

The lower stone ov the two iz one ov the stones ov the vault, and in fact iz the apex ov the vault. The stone fits there like a wedge, among the surrounding stones: but in stead ov being a long-ish stone, like most ov the others, it iz rather flattish. It iz a natural uncut stone: and the hole through it, seems to be a natural round hole, such az you find, some times, in lime stone that haz been ex_pozed to water. The upper stone ov the two iz a squared stone, and the hole through it, continuing the hole in the lower stone, iz a cut hole. That squared stone, which iz not part ov the vault, but iz embedded in the outside cap ov stone and mortar, does not reach quite to the top ov that cap: it iz a little sunk: so that it forms the bottom ov a little wel. And in that little wel, and sitting on top ov the squared stone, and with its feet round the edge ov the hole, waz this stone 675. The chimney waz open, but it waz not open to the sky. It had that stone for a cover. The Chipál man happend to pick up the cover, and then saw the hole.

What do you supoze that hole waz for? My notion iz that it waz a listening hole: a hole for the dead to listen through. That notion, at any rate, would be quite agreeable to the ideas ov modern Indians.

676/83. From XIV. - When the Chipál man first came to Chipál, and before he turnd the ruins ov the drawing into a cattle pen, the neighbouring Indians used to burn incense on top ov XIV. See 626. And XIV originaly, the man says, waz not a plain square block ov masonry, az it waz when I first new it, and put it in my drawing, but had stairs going up it on all four sides. He demolisht the stairs for the sake ov the squared stone in them. With thozе stairs, XIV must hav been very like the building markt X, in my drawing ov the ruins at The Xoch.



The man haz now further demolisht XIV. He states that underneath it, he found a shallow stone drain: running nearly az you see in this sketch. The drain waz just barely under ground. He followed the drain up, and it led him to a little covered spring ov water: a spring rizing in

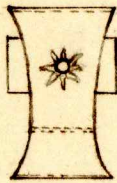
676/83, continued.

the yard, about half way between XIV and the opposit stairs. The little spring haz since dried up. The water it depended on haz been cut off, probably, by some ov the mans own water-hunting operations at a point higher up.

The interior ov XIV waz mainly a mere mass ov stone and earth: but in the middle ov the mass ther waz a small masonry chamber.

676/82. From the chamber.

676. A tall bel-moutht jar, with a high round foot, the foot continuing the line ov the jar. On two opposit sides, like handles, ther iz a pair ov up and down flanges. And in front ther iz a star ornament, which might be imagind to reprezent the sun. Ther ar also rows ov spikes on the jar, and a slight moulded ornament round the rims, - top and bottom - and round the waist. See 747. Outside red. Inside smoke-blackend. Height, 40 cm.



Depth, 28. Width ov mouth, 25. Waist, 15. Foot, 24. Entire.

The jar waz upright, and with its contents, waz the only thing in the chamber. The contents ov the jar wer a burnt corn cob: some burnt grains ov corn: some stone beads, now included under 781/5: and the things 677/82.

677/82. Part ov the contents ov 676. See 676. Small grotesk masks ov polisht stone, each with a pair ov holes near the top, to pass a string through.

677/80. Grey stone.

677. Height, 7 cm.

678. " 5 cm.

679. " 4 cm.

680. " $2\frac{1}{2}$ cm.

681. Green stone. Height, 5 cm.

682. Black stone, with inset white eyes. Height, 3 cm. One eye gon.

683. From the interior ov XIV, but not from the chamber. A fragment ov a vessel that waz broken in the digging. The fragment reprezents a rinkled human face. The part below the ~~face~~ noze iz missing. Height, 10 cm.

684/740. From XVIII.- XVIII turnd out, like III, to be the top ov an under ground ~~chamber~~ burial chamber: but a much smaller chamber than that ov III. The chamber, which iz now choked with rubbish, waz too low, the man says, to stand up in. He doesnt precisely

684/740, continued

remember, but he would say that the chamber ov XVIII measured something like a metre and a half in all directions, length, breadth, and height. The ceiling waz not vaulted, but flat. And ceiling and walls ~~were~~ and floor, wer all neatly plasterd. Az in III, ther waz an under ground door way. The door way in XVIII, however, waz not on the south east, but on the north west side. The door way ^{waz} ~~was~~ clozed with stones laid up without mortar.

684/9. From outside the door: not embedded in the earth, however, but occupying some sort ov antechamber, or protected hollow.


684/6. Globular jars, with short necks and no feet. All that waz in them, except a little earth, waz some small bones, and a few splinters ov obsidian. - Ther wer other such jars, but they wer broken in digging.

11378 684. Red, coarse. Haz four small handles (so to call them) round the neck, besides two handles below. Height, 28 cm. Diameter, 27. Mouth, 12. Crackt, but entire.

685/6. Much alike. Yellowish, wel made. Slight ornament round belly and neck.

11379 685. The smaller ov the two. Besides belly handles, haz one small neck handle. Diameter, 30 cm. Neck broken.

11380 686. The bigger. Belly handles only. Height, 36 cm. Belly diameter, 33. Mouth, 22. Crackt, but entire: except for a small hole you could put a pencil through.

11381 687.  A pot with neck, handle, and spout. No foot. Very coarse.

Height, 24 cm.

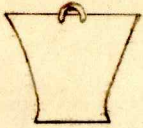
Neck and spout broken, handle gon, a hole in the belly.

688/9. Indian mil stones. The stone, and the general make, ar the same az in mil stones today. The size iz a small size. Weight ov both together, $9\frac{1}{2}$ kg.

The stones wer leaning against the door. An Indian woman at the present day iz very commonly buried with her mil stones. I supoze these stones, ~~687/8~~ 688/9, make it certain that at least one ov the people buried in the chamber waz a woman.

11382 688. The under stone. The stone haz the usual two low feet in front, and one high foot behind: but all three ar much smaller than would be usual today in a stone ov the same ~~size~~ size az this. Length ov the stone, 32 cm. Width, 27.

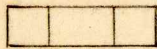
The stone haz been used in the finders kitchen for grinding coffee, and the coffee iz not washt off.

- 11373 689. The upper, or hand stone. Very ill made, and uneven. Length 26 cm. Middle thickness, about 7.
- 690/740. From the chamber. - The man thinks there may have been two skeletons in the chamber. At any rate there were two skulls. He saved the skulls, but afterwards lost them. See 688/9.
- 690/4. Pottery.
- 11384 690. Small pot, bellied, with a neck, and no foot. Has a stuck-on ornament consisting of a grotesque face and arms. Height, 10 cm. Width, 10. Mouth, 8. Entire.
- 11385 691.  A conical pot, with handles and a low foot. Height, 16 cm. Depth, 15. Across the top, 20. Half the top gone, and the remaining handle broken.
- 11386 692. A thick, black, round cake. Has two diametrically opposite holes through it, near the edge, as if to put strings through. Diameter, $6\frac{1}{2}$ cm. Thickness, about 2.
- 11387 693. A coarse hollow thing, that looks like some sort of whistle, but it doesn't whistle. Length, 5 cm. See 665.
- 11388 694. A triangular flat stamp, with a short handle at the back. On the face, round the edges, there is a double row of geometrical ornament: and in the middle a conventional representation of two birds, or perhaps of a double-headed bird. Length of each of the three sides, 8 cm. Entire.
- 695/703. Stone. See also 707.
- 695/6. Obsidian arrow or lance heads, both damaged.
- 11389 695. Length, 5 cm.
- 11390 696. " 8 cm.
- 697/702. Small hatchets.
- 11391 697. Length, 3 cm.
- 11392 698. " 4 cm.
- 11393 699/700. Length, each, 5 cm.
- 11394 701. Length, $5\frac{1}{2}$ cm.
- 11395 702. Broken. Part gone. Width, 4 cm.
- 11396 703. In a paper. Five pieces of polygonal pyrites money, as they call it. See Chamá. Only one piece in good condition.
- 11397 (11303) 704. Two oblong slices of polished bone. No holes, or any means of attachment. Length, 2 cm. Width, $1\frac{1}{2}$. Thickness, 1 mm.
- 11398 705. Polished rings, or beads, made of cross sections of bones. Some are more or less quoit shaped, others more or less nipple shaped. Ten in all. Diameter, 1 or 2 cm. The hole generally big enough to put a pencil through. See 724/5.
- 11399 706. A tooth with a hole bored for stringing. There were many of these,
- 11400

perhaps half a hundred. This was the only one saved.

11401 707. Beads of polished stone: some flat, others cylindrical. 14 in all.
11402 Diameter from 6 mm. to 2 cm.


708/21. Shell, or mother of pearl.

708. Oblong thin plates of mother of pearl, each with a pair of grooves
 across what seems to be the front side. Each plate
11403 about 4 cm. x 1 cm. x 1 1/2 mm. 12 in all, now tied on
a string. - The man had fragments of others. I should suppose that
these things had brass or gold in the grooves: see 718/20: and were
somehow strung together. See 709/14.

709/15. Mother of pearl beads: the mother of pearl generally much decayed.

709/14. Six strings of such beads, strung together at the fancy of the
11404 finders. The great majority of these beads are small rings, about
to half a centimetre across, and a millimetre and a half thick. Of
those there may be about 440. See 721.

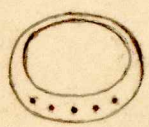
11409 In the bunch 709 there is one bead just like one of the plates
of 708, except that at one end it has a hole through it, which en-
abled the finders to put that plate on a string.

Besides that plate, there are about a dozen of the same length
and width, but thickened in the middle to allow the
 boring of a pair of holes: and those beads, or plates,
have no grooves.

11410 715. Half a dozen of a square thick shape: and with no hole; but with a
groove round the thickness, on all four sides. 1 to 1 1/2 cm. on
the side. 5 or 6 mm. thick.

716/20. Five bracelets, or some such ornaments, made by taking shells
like big clam shells, and cutting out the crown. Decayed and chalky.
Only one of the bracelets, 717, has any remnant of the original
mother of pearl.

11411 716/7. The two biggest: perhaps the shells of one fish. Outside diam-
eter, about 13 cm. Inside, 7 or 8. In 717 the hinge part is gone.
11412

718/20. Inside diameter, about as in 716/7. But the shells were smaller,
and left a narrower ring. On the lip of each of these three shells,
 on the convex side, there are four or five shallow round
holes. When the man first found the shells, those holes,
he states, were filled with a yellow metal like that of
733/4: that is to say, I suppose, with gold. The fillings dropped
out and were lost. It might not be very legitimate, but the holes
could easily be re-filled out of the fragments in 735.

11413 718. The largest of the three. A piece gone from the hinge side.

11414
11415 719/20. Entire.

721. A piece ov what now looks like a cylindrical stick ov chalk, but you can stil see waz originaly mother ov pearl. Length, 6 cm.

11416 Diameter, mm 7 mm. - I should supoze that the round flat beads ov 709/14 wer out from sticks like this.

722/38. Metal.

722/30. Copper or brass, coverd with verdigris.

722. What you might take to be an ear drop: pear shaped: hollow: with a slit in the bottom: and with a loop on top, to put a hook or a string through. The surface iz not plain, but haz some raizd tracery.



Length, 3 cm. Diameter, 2.

723. On a string. Eight smaller ear drops, or whatever they may be. They ar shaped like 722, excepting that in stead ov being round, they ar a little flattend. - One ov them haz been scraped by the finder.

724/5. Two things ov a quazi-tubular shape, curiously rezembling some ov the bone things ov 705.

724. Length, 12 mm. Diameter, 12 mm. Carvd surface.

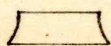
725. Length, 12 mm. Diameter, 15. Haz a ridge round the ends and round the middle.

726. A plain narrow finger-ring. Inside flat, outside convex. Diameter, 12 mm.

727. A piece ov copper sheet, folded. Probably a fragment ov something. Length, 4 cm.

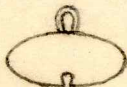
728. In a paper. Eight brass buttons - so to call them: round, thin, saucer shaped things. Diameter, 19 mm. One broken in two.

729. A ring ov this shape.

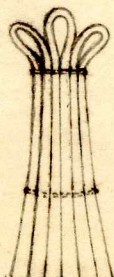


Height, 1 1/2 cm. Top diameter, 3 1/2 cm. Bottom, 4 1/2.

730. A castenet, or some hollow copper pendant. Not globular, but flattend. A loop on top, and a slit in the bottom. Diameter, 42 mm. Height, without the loop, 18.



731. Two pieces fitting together. An arrangement ov wires in what you might call a tassel, or a comb. The thing iz flat. The wires, which ar not round, but square, lie side by side, slightly spreading towards the bottom. When you examin the top end, you see that the wires ar arranged in three bunches, one on each side ov the thing, and one in the middle. The wires ar bent round double, so that each bunch, at the top, makes a loop. Each bunch consists ov three wires, which when doubled



make six prongs: so that the hole comb has eighteen prongs. The eighteen are now seventeen; one prong is broken off. The prongs are fastened together in two places, one place just below the loops, and the other again below that. The fastening is now very weak, and the thing fell apart in two pieces, in the finder's hands. Length of the thing, 8 cm. Width, both top and bottom, 3. Thickness of the wires, 1 mm.

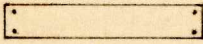
732. Brass: partly bright, partly blackened. A pair of thin leaves, of a shape like this. The leaves have what you might call a stalk, and are joined together at the foot of the stalk.

11427



Length of each leaf, about 22 mm. - I say Brass, because the metal, though a great part of its surface is bright, is instantly affected by nitric acid. Possibly the stuff contains just enough gold to prevent verdigris.

- 733/8. Gold. See 627/786, Gold.

733. Two oblong thin leaves, each leaf with a pair of holes at each end.  Length of each leaf, $11\frac{1}{2}$ cm. Width, 2. A corner gone from one leaf.

11428

734. A single leaf, like those of 733, but slightly narrower, and decidedly longer. Also, the ends are not square, but slightly rounded, and there is only one hole in each end. Length, 14 cm. Width, 18 mm. One corner gone.

11429

735. In a paper. Five fragments of such leaves as 733/4. At least two of the fragments fit together. Length of the biggest fragment, 3 cm.

11430

736. In a paper. Two small, and much wrinkled fragments of some thinner leaf than those of 733 to 5. About 2 or 3 square cm.

11431

- 11432 737. Two hollow globular beads. Diameter, about 6 mm.

- 11433 738. Twenty two hollow globular beads, all very equal and well made. Diameter of each, about 11 mm. Total weight, 50 grams.

- 739/40. Glass: the colour is a smoky greenish colour. Two rings, or as you might call them, two spools: of about the size and shape of the ribbon spools in writing machines: excepting that in these glass spools the hole in the middle is big enough to stick your finger in. The spools are flat, and circular, and smooth. They are so smooth and true, and the two are so exactly alike, that you could fancy they were turned out by machinery. Diameter, $4\frac{1}{2}$ cm. Diameter of the hole in the middle, 2. Width, $1\frac{1}{2}$. Found entire, but both broken in the finder's house. The glass is very brittle.

- 11307 739. One flange broken.

740. Both flanges broken. The attached paper contains missing pieces,
11307 all of which can be put in place.

741/72. From XX, the pier (so to call it) between the top stairways.

There are signs on top of XX that there was once something there, for which XX would have been a sort of pedestal. There is a pier very like XX in the western group of ruins: and on top of that pier there was originally a stone and mortar image, the remains of which are still to be seen. Both that pier, and XX itself, and the two piers that you see below XX, all have a thick coating of plaster.

XX is the only pier that the man has explored. He began on top, and dug down into the pier, and came out in front at the foot. With a wide hole up and down inside, and a low entrance at the foot, the pier, now, has something of the look of a limekiln.

The man found something very unexpected in the front of the pier, at the foot. Along the foot of the pier, just above the level of the ground, and covered only by the plaster that I speak of, there were two human skeletons stretched out. They were stretched out inside the plaster, in the thickness of the plaster. They were laid head to head, in opposite directions: the heads at the middle of the foot of the pier, and the feet at the two sides. The skeletons were not lying on their backs, they were lying on their sides: and so lying, they were both facing outwards, that is, facing towards XIV. The bones were in good condition. The skulls, which the man says were very perfect, jaw bones and all, he at first saved: but they were afterwards kicked about and destroyed. - The skeletons were not embedded in the plaster, they were closely surrounded by it: though not in any sort of prepared chamber. No doubt the original bodies were simply buried in the plaster: and there is a place in the broken plaster where you can still see the mark of one of the skulls.

The inside of the pier, from top to bottom, the man states, was mainly earth. Outside the earth came a casing of squared stone, and outside that, the plaster. These things, 741/72, are all from the earthy interior. In that interior the man noticed no structure. The things were embedded in the earth apparently at hazard, so he says: and mostly in their present broken state.

741/70. Pottery.

741/4. Remains of four bowls, or dishes, each with three hollow rattling feet. See 631/3. The man showed me the remains of altogether about a dozen of these, that he had saved out of number XX.

741, A/C. Three pieces fitting together. Reddish yellow: thick: feet globose and unornamented. Round the rim, on the outside, there is a geometrical pattern in black. Width, 27 cm. Height, 11. Depth, 8. A piece out of the side and out of the bottom.

11434

742, A/B. Two pieces fitting together. Outside ~~yellowish~~ red: inside yellowish, with round splashes of red. The feet represent the face of a cat beast. Width, 21 cm. Height, 10. Depth, 7. Two big pieces out of the side.

11435

743, A/C. Three pieces, of which B and C fit together. Inside red, outside whitish. Feet dog-faced. Round the rim, outside, there is a scratched drawing. The drawing is now indistinct, but plainly it repeats itself. I seem to see a person on all fours, with a long head dress, and with something in his hand. Most of the dish is missing, including one of the feet.

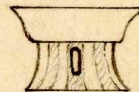
11436

744, A/B. Two pieces, not fitting together. Inside yellowish, outside red. Each piece has a vulture-faced foot. See 641.

11437

745, A/D. Four pieces fitting together. A round basin, or dish, with a flattish bottom, and a high round foot. The foot has four oblong windows in it. Inside of the dish, black: outside yellow: with up and down red stripes on the foot. Across the top, 32 cm. Across the bottom of the foot, 24. Height, 9. Depth, 8. Complete.

11438



746/50. Jars with a general resemblance to 676: quasi-cylindrical jars, more or less bell-mouthed, and with a high round foot continuing the line of the jar. And there is an up and down flange on each side of the jar, and a stuck-on ornament in front. In these jars, 746/50, the stuck-on ornament consists in the main, of some head: but accompanied by slighter representations of arms and legs.

All the jars are smoke blackened on the inside: and all are incomplete.

746. The necklace, under the head, is painted blue. Ear ornaments, yellow. Height of the jar, 36 cm. Depth, 27. Great parts missing from the back and from the foot: and the ornament in front has one foot missing, and both arms.

11439

747/8. Imaginably parts of one jar, a companion jar to 746.

747. The foot part alone. The rim has the same moulding as in 676. Height of this foot, 14 cm.

11440

748. A fragment including the front ornament and part of the top rim. The ornament has traces of blue and red: blue on the ~~neck~~ necklace, and ear ornaments, and part of the face: red on the complicated apparatus covering the nose. Height of the fragment, 15 cm. See 752.

11441

- 11442 749, A/F. Six pieces fitting together. The head, in this, has a head dress of five plumes. The hands rest on the necks. Traces of red and yellow paint on a white ground. Height of the jar, 29 cm. Depth, MKR 24. Great parts of the jar missing, including one leg of the figure.
- 11443 750, A/B. Two pieces fitting together. Black, inside and out. The jar has double flanges at each side, instead of single flanges, and the jar is covered with rows of low spikes. The front figure is very rude, and its one leg seems to have been the only leg it ever had. Height of the jar, 30 cm. Depth, 24. Across the foot 24. Foot cracked, and a great part of the jar missing.
- 11444 751. A variation from the jars of 746/50. Smoke blacked inside, as they are, and with a figure in front, but has a contracted and comparatively low foot; and instead of side flanges, has a single flange at the back. Spike ornament. Traces of white paint. The figure in front very like that of 750, but has no legs. Height of the jar, 21 cm. Depth, 18. Across the top, 23. Across the foot, 15. Side cracked, and a piece out of the top.
- 11445 752. A fragment very like 748. A piece of the rim of a jar, and under the rim, the head part of the stuck-on ornament. The head represents a human face looking out from between the jaws of some animal or dragon. Height of the fragment, 13 cm.
- 753/5. Ornamented fragments of some great pot, or pots. Thickness, 1 to 1¹/₂ cm. Natural red colour, but with traces of white. The ornament consists mainly of cat-beast faces in high relief. Each face is about 15 cm. wide, from ear to ear, and 10 or 11 high. The faces are very much conventionalized and simplified, but they are very well done. The man saved only these pieces, but there were enough pieces found, he says, to have made up, probably, at least one hole pot.
- 11446 753. A rim piece, with an ear. The cat-beast face is enclosed in a square of low spikes. Height of the fragment, 33 cm. A tooth missing from the face.
- 11447 754. An other rim piece. The face is close below the rim. No spikes. Height, 25 cm. Width, 24. Two teeth broken.
- 11448 755, A/B. Two pieces fitting together. The face in this example has cutting teeth as well as fangs. In addition to the face there is a sketch of the body, a sketch in low relief. The animal stands facing you on its hind legs, with uplifted front paws. See 627. Height of A and B together, 50 cm.
- 756/8. Pottery of the same sort of make, and smooth finish, as in 628.

11449
Plumbata?
 756. A fragment of the neck and belly of a small red pot. The ornamentation round the belly represents a toad. The head and feet stick out, and the rest is incised. Height of the fragment, 12 cm. Width, 14.

757/8. Yellow.

Plumbata
 11450
 757, A/B. Two pieces fitting together, and making the greater part of a small round pot with a neck. That is what the thing is on the inside. Its appearance on the outside is quite different. The outside is an image, which represents a person kneeling: kneeling on the left knee. The right leg is broken off at the thigh, but probably the knee was not on the ground. The body, which is the body of the pot, is upright. It has a waist cloth and something that looks like a necklace. On the left arm there is a shield: and the hand, hanging down, grasps a sort of club. The right hand, which is put out forward, has hold of the end of some long thing which leans back on the shoulder like a musket. I have no idea what the thing is. In the top of each shoulder there is a deep round hole, which I suppose was to stick something into. The neck of the figure is the neck of the pot, and there the figure ends. There is no head. Evidently the pot had some lid, possibly 758, which represented the head. Height of 757, 19 cm. Width, ditto. What is missing is mostly from the back.

11451
Plumbata?
 758, A/C. Three pieces fitting together. The greater part of a tall hollow lid, intended to fit into, or fit round, the neck of something: perhaps to fit round the neck of 757. The lid, on the outside, represents a man's face and head. The man has a beard. And he has nose and ear ornaments: and he has a complicated dressing of the hair. See 761. Height, 14 cm. The missing part is on one side.

759/61. The remains of three small human images. Hollow: coarse. The man had saved, and showed me, the remains, still more fragmentary, of half a dozen others.

11452
 759, A/B. Two pieces fitting together. Somebody sitting on the ground. Has a waist cloth, necklace, bracelet, anklet. Some round thing stuck on the right arm. Something in the hand, perhaps a fruit. Height, 17 cm. Head gone. Also a hand and a leg.

11453
 760, A/D. Four pieces fitting together. A figure sitting on a chair, or some raised seat. Waist cloth, anklets, ear ornaments: something round the neck. Height, 29 cm. Both arms, and half a leg gone. Also the back of the head, and back of the chair.

761, A/C. Three pieces fitting together. A whistle in the shape of a person sitting on the ground. Anklets, bracelets, a necklace: and a dressing of the hair something like that in 758. Height, 15 cm. A little of the sides of the head missing, and one hand.

762/70. Miscellaneous heads, or faces, belonging to pots or images.

11455 762. A cat-beast face. Very coarse. Height, 8 cm.

763/70. Human.

763/6. Very coarse.

11456 763. Height, 9 cm.

11457 764. " 10 cm.

11458 765. " 7 cm.

11459 766. " 4 cm.

11460 767. Has a blue nose-ornament. Height, 7 cm.

11461 768. A human face looking out from an animal mask. Height, 8 cm.

769/70. Skull-faces. These are always pot ornaments.

769. With a piece of the pot attached. A companion face on the same piece has been knocked off. See 770. Height of the fragment, 17 cm. Height of the face, 5.

770. Perhaps the face that was knocked off 769. The man had a number of these detached skull faces saved out of this digging.

771, A/B. Two pieces fitting together. The head and middle parts of a flat oblong stone image. Very rude. The face, arms, waist cloth, and so on, are shown by lines cut in the smooth surface of the stone. Length, 15 cm. Width, 8. Thickness, 3.

772. About a quarter of a thin circular stone disk. The disk has a likeness to those of 666/7: but is bigger, and has the two holes near together. Diameter of the entire disk, about 11 cm. Thickness, 11 mm.

773/80. From the group of ruins parallel to the ruins of the drawing. See under 627/786.

773/4. From a small underground chamber near the south east end of the ruins. The chamber is now nearly choked up. The man says that he found it open. The opening was a hole in the ground, hidden by weeds, and he fell into the opening. He thinks the chamber had already been rummaged: and I shouldn't wonder if the things 130/5 were from that chamber.

11465 773. A rock-crystal lance head. Length, 10 cm.

11466 774. The remains of a deer's antler, carved to represent a human figure. One tine is taken for an arm. Waist cloth, bracelet, hair hanging down the back. Length, 10 cm. The feet of the figure are missing and the hole thing is much decayed.

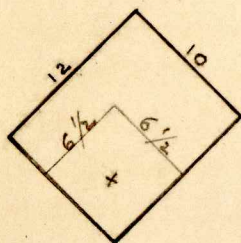
775/7. Found together, about a foot below ground, near the middle of the ruins: just outside the corner of a low building.

11467 775. A small round pot, with neither foot nor neck. Height, 13 cm. Across the mouth, 12. Cracked. 775 contained 776.

11468 776. In a paper. Lumps of paint-earth. Red and brown. A handful. See 775.

11469 777, A/B. Two pieces fitting together. A flint spear head. Length 20 cm., originally about 24. Both tips gone. Width, $5\frac{1}{2}$. - 777 was placed in a small broken pot, which was side by side with the pot 775.

778/80. From the north west end of the ruins. - That end of the ruins is a low platform, about 10 metres by 12. In the southern corner of the platform there is a slightly sunk square: each side about $6\frac{1}{2}$ metres. Near the middle of that square, about where you see the cross in my diagram, there is a hole which the Chipál man dug. He says that originally the level surface of the square was broken, at that point, by an almost imperceptible mound. The mound might have been about a hand's breadth in height. That little mound, or little hump, for some reason moved the man's curiosity, and he dug into the ground there. He went down about a metre: finding nothing as he went down but plain earth, with here and there a stone in it. And then without any warning he came on these things, 778/80. They were not in any sort of chamber, but simply embedded in the earth, one on top of another.



N
↑
S

11470 778. A small pot, with a high, spreading neck, and no foot. On the belly there is a pair of small handles. At right angles to the handles there is a pair of stuck-on ornaments. One ornament represents the head of a cat beast. The head is hollow, and has a rattling pellet in it. The ornament on the opposite side of the pot, is a grotesque human, or monkey figure, which is seated in the recess of the neck. The pot has a red smooth surface, with a pattern in white. Height, $8\frac{1}{2}$ cm. Across the mouth, 7. Entire, excepting for one broken handle.




The pot was upright. In the bottom were a few stone beads, now included under 781/5. The mouth was closed by 779.

11471 779. A diminutive stone saucer, or stone cup: shallow and thick. It has something of the look of being a natural round pebble, artificially scooped out on one side. The stone is



the stone that Indian mil stones are usually made of: the same stone as in 688/9. Height, 2 mm. Depth, 1. Diameter, $4\frac{1}{2}$.

779 was mouth up. It was mouth up, in the mouth of 778: and was itself covered by 780.

11472 780, A/B. Two pieces fitting together. A little gold cup, as thin as paper. No handle nor foot. A cross section of the cup would be like this.  The rim all round, is turned over flat, and then again straight down. Depth, about 15 mm. Outside diameter, 43. Width of the rim, 5. A small piece missing from the bottom.

See 627/786, Gold. - 780 was mouth up, with its bottom sitting in 779. The point of the man's pickaxe, by a fatality, struck in the very middle of 780, and broke 780 in two.

781/6. From the Chipál ruins indiscriminately.

781/5. Five strings of polished stone beads. See 676 and 778. The stone is mostly the usual green stone: but there is grey, brown, black, white, and red. The man's wife had the beads strung together at her own fancy: which I have not adhered to.

11473 781. Globular beads, and small beads. In all, 117.

11474 782. Pipe stem, or spindle shaped beads: 57.

11475 783. Shape decidedly irregular: 16.

11476 784. Pendants: or beads in some way peculiarly cut, or dealt with, but not carved: 16.

11477 785. Carved: the majority representing a face or figure, human or animal: 12.

11478

11477 786. A small fragment of picture pottery, like the Chamá picture pottery. Colours bright. Length, 4 cm.

11478

