Excavation notes
Cueva de los Ladrones Coclé Prov
Panama 1974

cuaderno

Return To D. Cooke S. Box 930
or Tennis Bird Albrook AFB
Canal Zone

BALBOA

DE _____

PERTENECIENTE

A _____

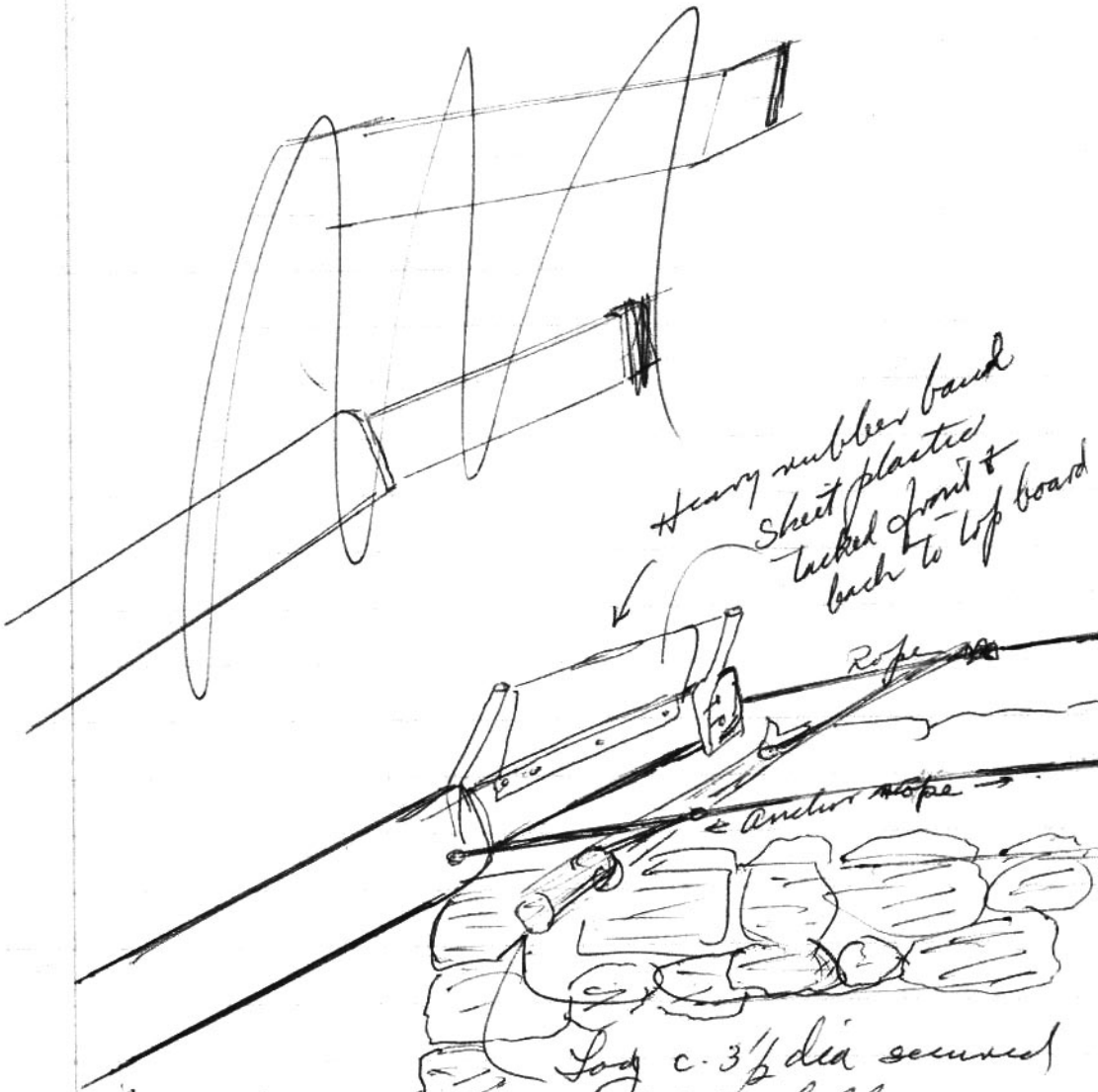
Xerox copy made & filed at AMNH

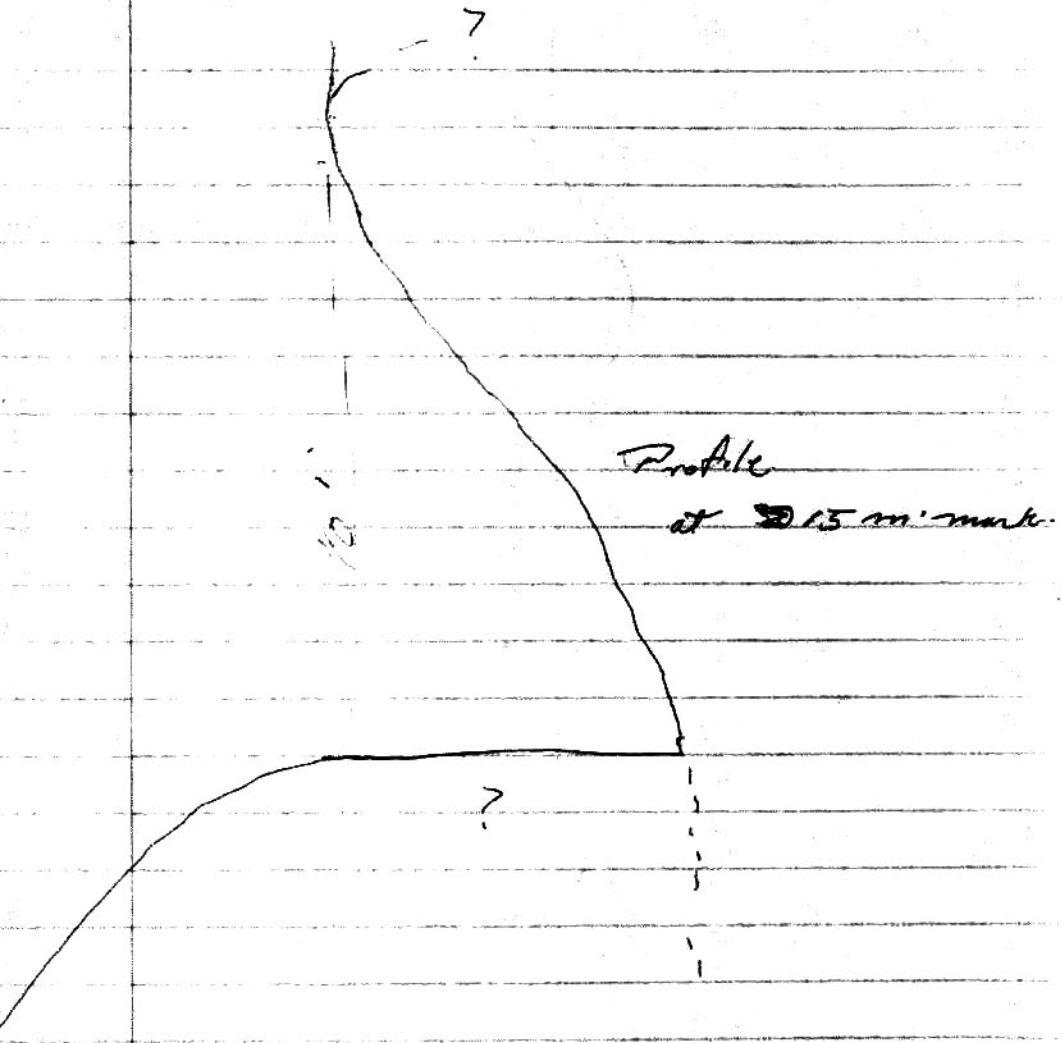
200 PAGINAS

RAYA ANCHA

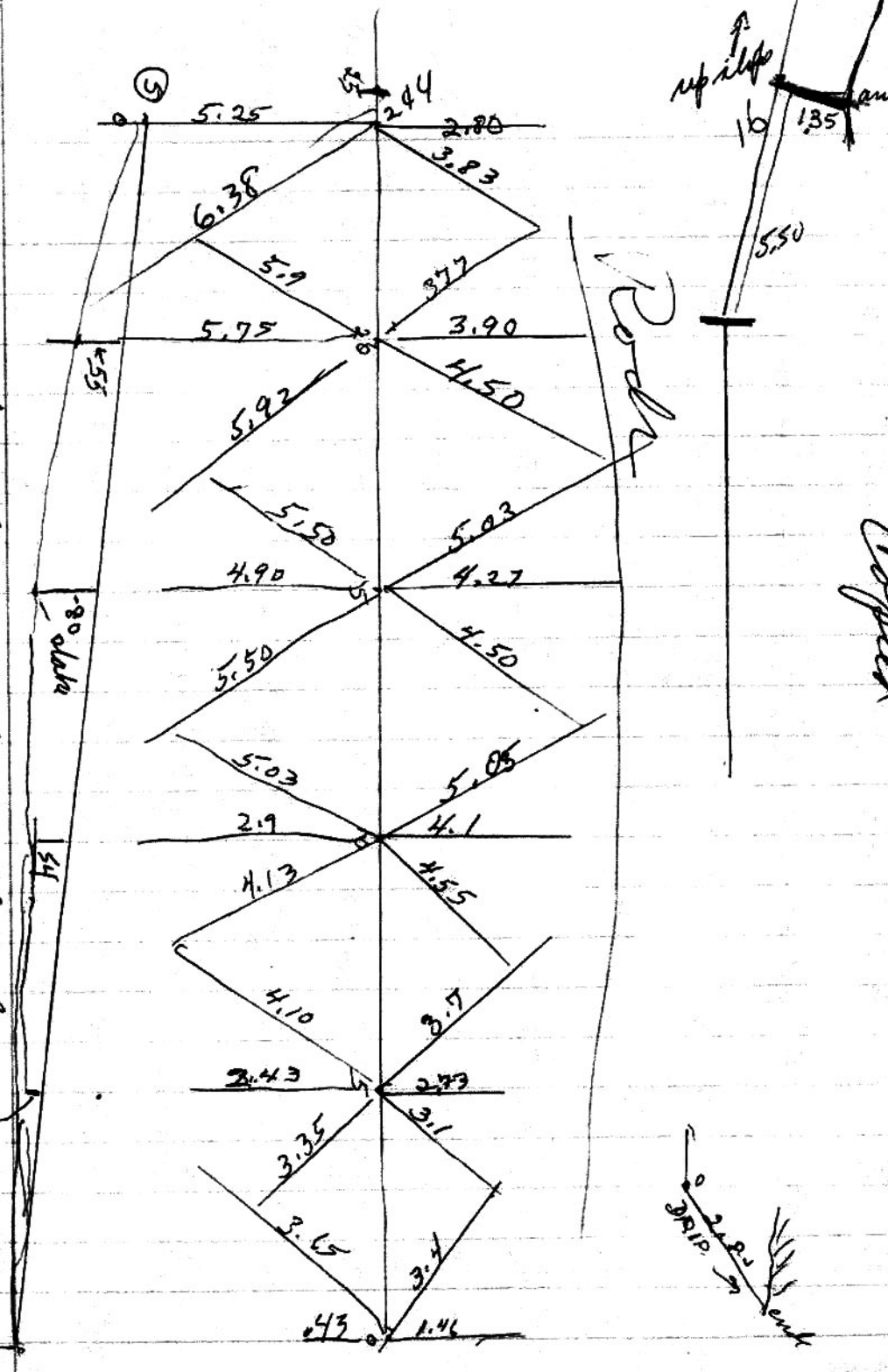
Sifter setting: As first installed the angle of screen surface was 46°10' from horizontal. Dry dirt down this sifted very well with very small flakes & chips reaching sorting table. Later, dirt from drip line area was hard-breaking into small pieces & lumps. Often half or more of each bucket load landed on sorting area so on March 25 reduced angle to 43°20'. This still too steep but reducing further would mean rebuilding top of ramp or resetting sorting table supports. At this angle no material remained on the screen - no vibrating rope needed. Using rake to retard flow eliminated some fine dirt particles but careful dumping achieved same result.

Added piece of plastic at top to prevent spillage loss see sketch →


Heavy rubber band
Sheet plastic
tacked front &
back to top board
Rope
Anchor rope
Log c. 3½ dia secured
to anchor rope to stop wheelbarrow
at correct spot for dumping


Profile
at 0.15 m mark

Measurements from traverse line to the various points of cliff and approximate depth of water as determined by use of plumb-bob from top of cliff.



Cueva de los Ladrones

2/3/74 Floor plan

Orientation NW datum:
41° 30W of N

Depth of ~~string~~ floor below NW line (3°30" inc. 0 ⇒ 25 m)

2.00	14.5 cm
4.00	25.5 cm
6.00	30.0 cm
8.00	42.0 cm
10.00	58.0 cm
12.00	74.5 cm
14.00	79.0 cm
16.00	79.5 cm
18.00	73.0 cm
20.00	61.0 cm
22.00	41.0 cm
24.00	15.0 cm

Floor Profile - SW from base line	
1.00	3 cm
2.00	9 cm
3.00	15 "
4.00	20.5 "
5.00	27.5 "
6.00	51. "
7.00	79. "
8.00	106. "
9.00	131.
10.00	166.
11.00	212

NE from base line

0.00	76 cm
1.00	71 cm
2.00	61 cm
3.00	47 cm
4.00	16 cm.

Hors rock 4.33

Loads of dirt sifted

Mar 1 — 20 I Loose dirt from surface

Mar 3 — 17 Loose dirt from surface

" 3 — 15 Area 1

" 4 — 12 Area 2

" 4 — 6 Area 3

" 4 — 7 Area 4

" 4 — 7 Area 5

" 5

" 6

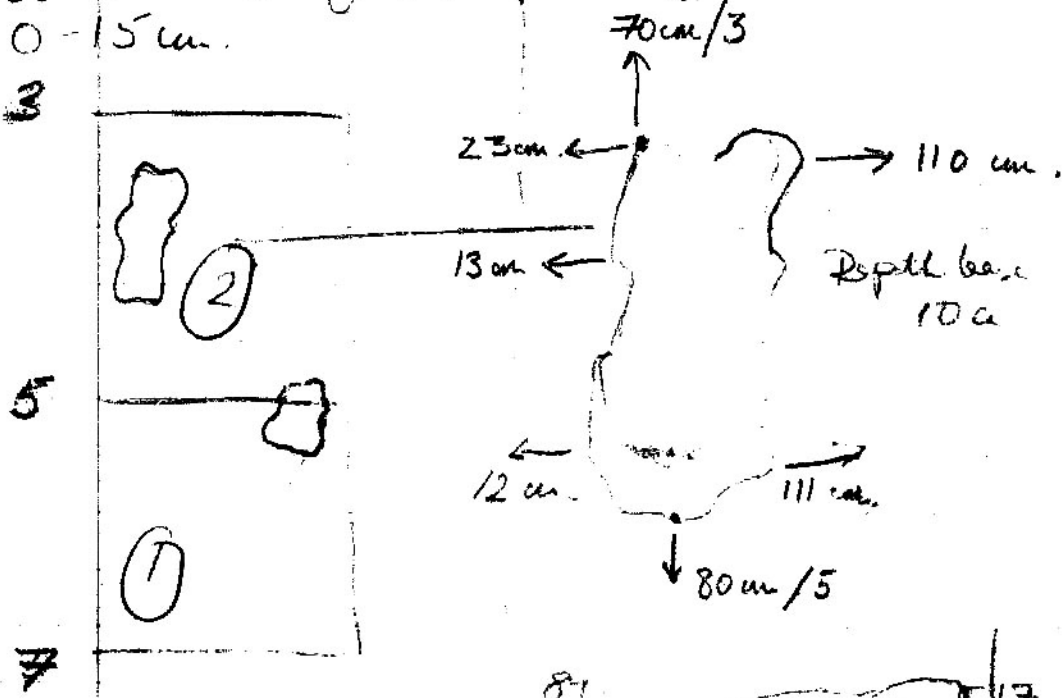
" 7

" 8 — 2 loads from lower end of Layer 2C, as designated in Area 2, ~~sifted into basket~~ material removed added to the 30-45 cm lot of Area 1 which it belongs with in time.

4/11/74

Coordinate 0 elev.

0 - 15 cm.

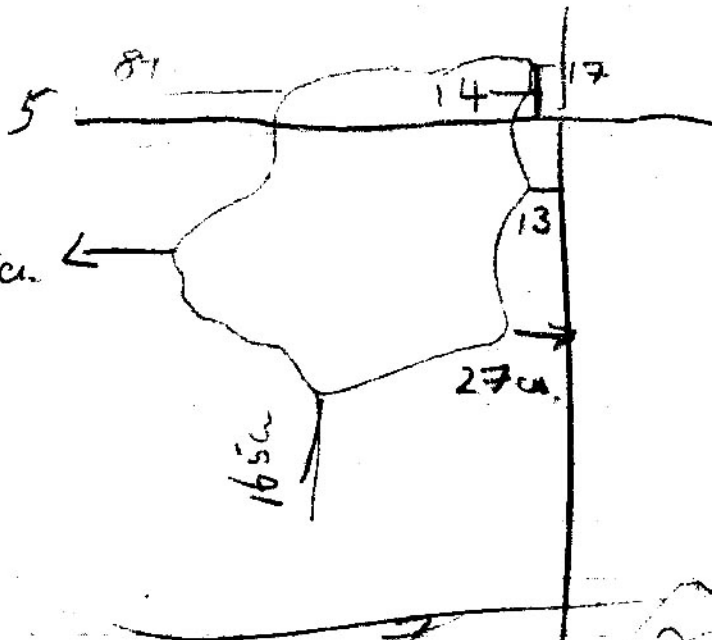


Area 1 - 7 - 5 cL

2 5 - 3 cL

3 3 - 1.5 cL 78 cm.

4 1.5 - 0 cL



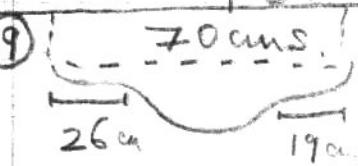
Area

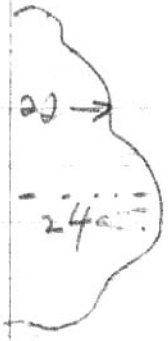
(2). Small irregular-shaped pit in eastern wall. Cut through first compacted floor.

2.10
1.50

3.60 from base line NW.

(9) 70 cms. 16 cms.





185
150
335

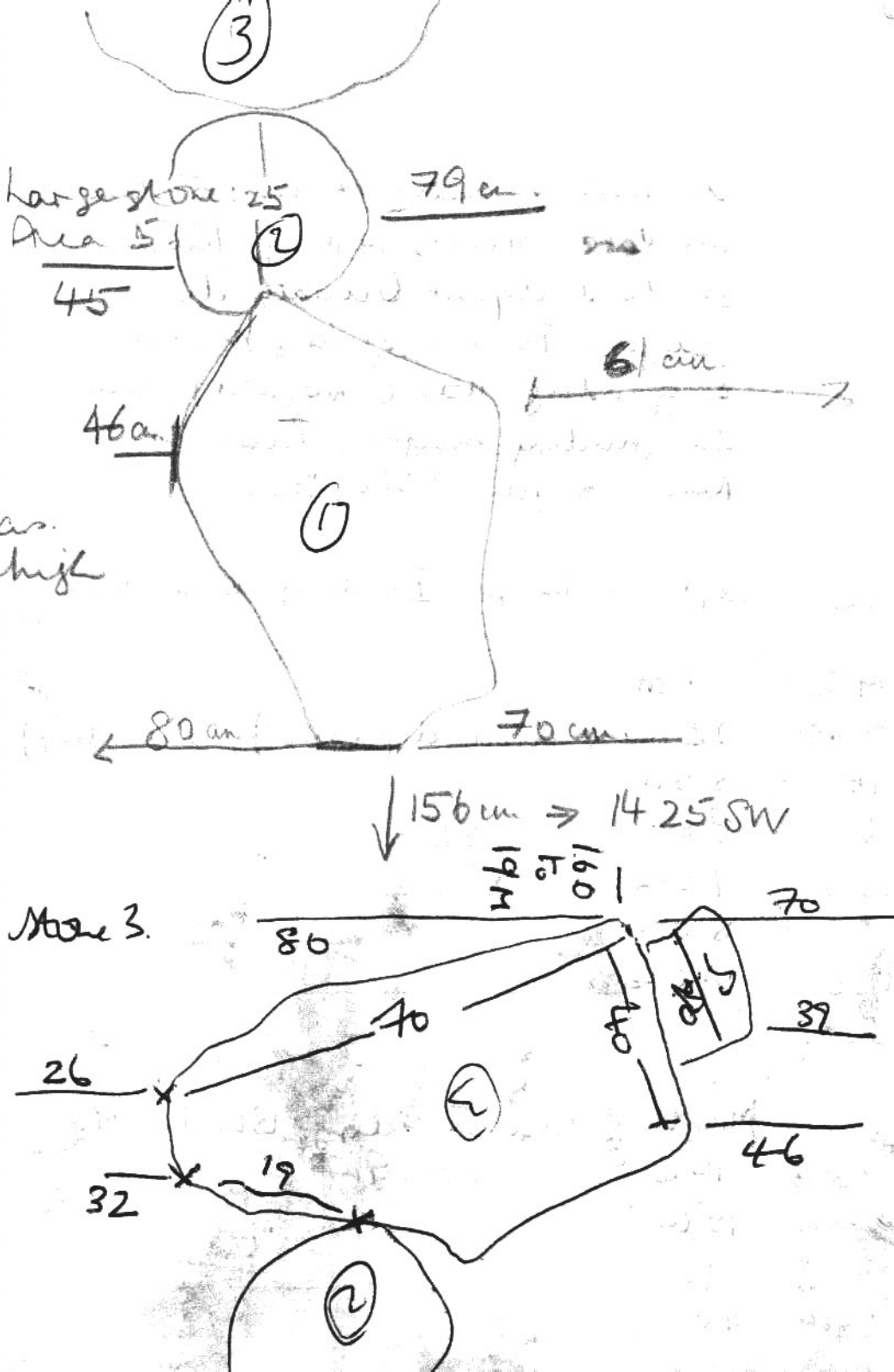
well defined floor begins 3.35 m from base line. 6, in Jodh, second hard well compacted dust which is 8-12 cm deep

Area 3 1.50 M - 3.00 M

area 4 ⊙ BL - 1.50 M.

Area 5 15.75 NW - 17.50 NW

Area 6 17.50 NW - 15.00 NW


3
Large stone 25
Area 5
45
2
79 cm.
61 cm
46 cm.
40 cm.
thigh
1
80 cm
70 cm
156 cm ⇒ 14.25 SW
Stone 3.
80
70
40
26
32
19
39
46
4
2

In centre of areas 4 and 5 are two large stones, resting flush on hard deposit beneath dust layer. To N.W of larger stone, a grinding stone (fragment), with the grinding surface facing the N.W. surface of the stone.

Depth of Layer I along base line:

14.25M	14 cm.
14.45M	22 cm. (small depression, 30 cm. long)
15.00M	5.5 cm.
16.00M	7.0 cm.
17.00M	9.0 cm.
18.00M	8.0 cm.
19.00M	12.0 cm.

Depth of layer I along BL 1.5M.

19.00M	14 cm.
18.50M	15 cm.
18.00M	9 cm.
17.00M	11 cm.

1600 9a

Area 1:
Depth of layer I from 14.25 → SW

1.00M 12 cm.
1.50M 12 cm.
2.00M 9 cm.
3.00M 5 cm.
4.00M 18 c. (pit)

15.75 → SW

1.50 8 cm 2.00 9.00 cm 2.50 8.00 cm
3.00 c. 7 cm. 3.50 c. 13.00 cm

Approx. boundary of well defined floor 3.50M.

Area I - 15.30 ms Followed in arbitrary levels 5-7 cm. In W corner there is an area of stones of varying sizes, mixed with concentrated cultural refuse, ashes, bones and shells. Found here one fragment of a clay pipe. SW end of Area I stones, shells, bones, cultural material, pottery.

Deposit throughout, a compacted brownish yellow earth, loam and with lots of small stones.

6 March
Morning: began 5-3 SW. Area 2
There are 3 deposits.

~~1~~ A Loose dust
~~2~~ ~~3~~ B Brownish yellow earth plus stones
(1C Hard yellow)

The stony, carbonaceous earth with much cultural material lies over 1C (hard yellow) that seems to be same deposit as layer 2 (loose dust)

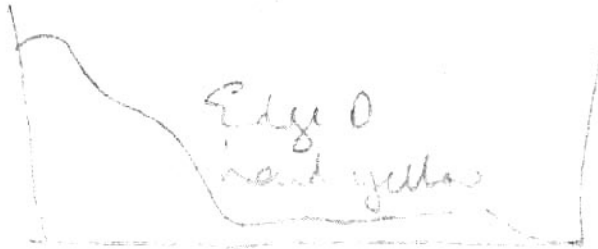
Layer I Loose dust
II A Compacted dust
II B Stony deposit + shell and cultural material. Limited to
~~1~~ W half of c. 6M – exactly 3M. Over rest of 7M – 6M, it is less stony.

Edge D hard yellow: [illegible]
First string line marks appear in upper edge D hard compacted yellow layer

10	70	80	15
20	70	90	|
30	65	100	|
40	60	110	|
50	55	120	10
60	40	130	|
70	25	140	|

Measurements of the edge D hard yellow (layer# III)

ND 3m line

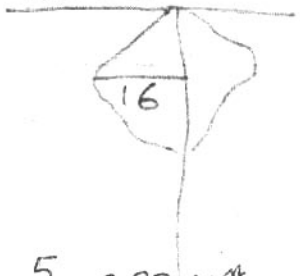


5-3M SW taken down to 30 cm.
(in layer III all over Area)

Area 3 - 1.5m.
Layer II taken first

Area 4 OBL - 1.5M
Only Layer II (Compacted dirt)

Stone in Area 3. On surface.
Protrudes 16 cm out
52cm long



Two post holes found in area 5, against S. wall.
Hole 1 - 18 from S. wall, 30 from 1.5 / 20 deep, diam. 10
Hole 2 - flush with S. wall; 104 " " / 50 deep; diam 20
Distance between 1 & 2 9cm.
Cut through Layer III from Layer II.

7 Mar. Continued to take out layer III

March 8.

Base of level 2B stripped down to expose Layer 3.

Small portion of layer 2B, as it dips down slope left and covered with sifted dirt.

Section left: Between 60 - 70 cms deep, 25-35 cms in from 7.00 mark (65 cms on side walls

[Carbon sample c. 45 cms on 5m mark Cancelled over c 20cm from below stone of 2B, or 3

Took out base of 2B

Depth of Nan 7 diggings

[Wall]

6.50: 56 / 6.00 - 52 / 5.50: 50 /
5.00: 48 / 4.50: 42 / 4.00: 40 /
3.50: 35

Difficult between 2B and 3 difficult to determine. Charcoal in wall at 50 cm (4.30 m)

A packet was taken out and sifted in western side of area 2 between depths 60 at 6M, 68 at 5M, 60 at 4M and end of March 7th work. Area covers c. 1/2 of area, other (eastern) half being left at 30 cm. Charcoal present in upper part (i.e. under stony layer of 2B). This packet is softer than rest of layer #3. Packet 17 dug at 4M. Dug to 3M 30 cm approx.

14 carts Area 2 - end of March

March 11th.

1) Area 7. 19 - 21 M BL.

~~Layer I~~ Sterile

× (1) Soft dust 2 carts Mostly orb c. 3 cm.

(2) Hard dust (layer I) Only 1 one cart, difficult to separate. Sterile, apart from one small red jasper chip. (Thorn).

(3) Layer II. 30 cm from 19M mark was found long. unworked soft stone.

layer II deeper than 15 cms - deepening at the western end. Divided into two (1) ⇒ 15 cms. (2) below 15 cms.

II (1), 0-15 13½ carts

II (2) 15 ⇒ Layer 3 5 carts

2) Area 8 21 - 23 M BL

× (1) Soft dust — included in Area 7

(2) Hard dust - diff. met to ascertain. c. 2 cm. only. One cart. Sterile

Area J

March 12th

3 carts sifted yesterday.
Taken out to 10cms There
seems to be a soil change
coinciding with cultural
material at this level.
Total Layer II (0-10cms) [must include Mar 11]
8 barrows
6 chips only

10-20cms. Darker earth,
less stones, cobble floors
8 barrows

From 20 cms to bedrock.
4 barrows

Total for unit: 20 barrows

Area 9

March 12th. P.M.
Trench started north at 19.50 - 21.00 BL,
Recent hearth area just beneath Layer I (loose dust). On BL. c. 1.00m. wide.

Layer I - Ovicaprid Loose dust. Sterile
Layer I - Compacted dust.
2 carts Sterile

Layer II 0 - 10cm. 8 1/2 carts.
Fair bit of material, presumably recent and associated with the hearth area.

Area 10
19.50 - 21.00 NE 2.00 ⇒ Wall.
Large carbonised wood appeared in western wall. Rock dips and slabs a lot.

13 1/2 carts so far (before lifting floor)

Lot of material.

Measurements - of urn:

C.L.B?

Diameter left (rim missing presumably knocked off by activity subsequent to burial in antiquity) 48 cm

Distance: 2.25M. NE
Depth: c. 5 cm.
1.01 cm. from earlier wall.

Tuvel - Dust 2 coats
Hand 15 coats

Extension of initial trench SW

17/3/74
1.50-3.00 Began extension of SW trench, beginning Area A3: 15.75M → 17.25M. First area A3. Taken in natural levels: Layer 1 fine, compacted dust and ash lenses. Large ash lense in NE corner. Ceases of ash throughout level.

3.00 500 Area A2: Fine yellow layer, which will be level 2, overlying stone paved on junction of areas 2 and 3. In centre of area a hump of hard yellow (layer 2?) seemingly overlying British layer. Left intact on first stripping. Flint artifacts from context between Layer 1 and this 'hump' in S end of Area, dips to the undifferentiated gritty brown earth of 2B of first trench. Peccary jaw and a few sherds here. Level dropped arbitrarily to 3".

5.00-7.00 Area A&1 Undif. gritty brown earth. Stones, roots. Taken arbitrarily c. 3". Some modern artifacts - pipe cap, glass etc.

18/3/74

Area 3 Depth D surface A (17/3/74)

North face

15.75	49.00	(second level)
16.00	17.00	CM
16.25	18.00	
16.50	21.00	
16.75	23.00	
17.00	26.00	
17.25	26 00	
17.50	32.00	

West face

1.50	47.00
1.75	48.00
2.00	45.50
2.25	44.00
2.50	40.00
2.75	40.00

Guides name Mario (Chicky) Bermudez from Cerreño.
The Piedra Iglesia 2/8/74

Cerreño: Cave in part formed by exfoliation along curving fracture line actively in progress at present Dirt contains many angular piece of this rock and there are recently exposed angular block up to 4 x 3 x 3 ft. No stone flakes in dirt. Guide says dirt was brought into cave back in his grandfather's time to make smooth floor. Sherds & pace, 3 burial urns found here in the past Not diagnostic typologically. Mouth of cave faces SE In front of cave mouth surface dips steeply, a talus of large angular rock pieces resting against large rock outcrop about 20 ft down from the 11 m mark to SW juncture of talus & cliff drops steeply suggesting that if all loose material in front of cave the cave would be well up in the face of the cliff. It is accessible a recent flow with the buildups of the loose rock in front.

Piedra Iglesia.

W	N	E
1.20 cm	0	60 cm
1.63	2	127
255	4	170
295	6	195
280	8	190
215	10	225
275	mouth SE	290

5'5
3.90
225

11m 10 cm out; line to floor 1 m.; line dips ± 12-10-0

cliff face 12.60

ceiling at ~~##~~ 11m 10 cm meters JB + 1 machete.
2 m 77 cm.

Ceilings.
4 m 50 = 5'1/10".
base line = 45 cm.
4.5 m: string is 20 cm above ground.

Area 2A Yellow sand above pile of rocks cleaned off. Hump of yellow then cleaned off. This centre hump grades down into yellow and sections of layer of sand.

At 3.65 cm left: hearth area taken out.

Area 1A taken down in arbitrary levels of 3". Material dense all over. Shells only on edge of junction 1A/2A. Seems that shell is associated with dense sharp stone and that layers 1-2 (0-6") are an earlier layer. Decorated sherd again eastern wall

19/3/74 Finished off level 2 (3-6) in Area A1. Very dense material against south wall.

Next level Area A3. Last trace of occupation "El Cano" type tool found about Brown Clay level 3.

Depth of surface of Level 3:

15.75	41 (broken)	1.50	41
16.00	14	1.75	41
16.25	16	2.00	41
16.50	18	2.25	39.5
16.75	21		
17.00	25		
17.25	28		
17.50			

Pile pit begins 2.30SE

Meters marked from the corner of this block.
not O line 20'

March 20

Add 150 to all these for correct dist from O line

150	175	200	225	250	275	300	325	350
37	35	39	37	30	22	40	35	34

20 cm drop to line

To (3) of rotten rock

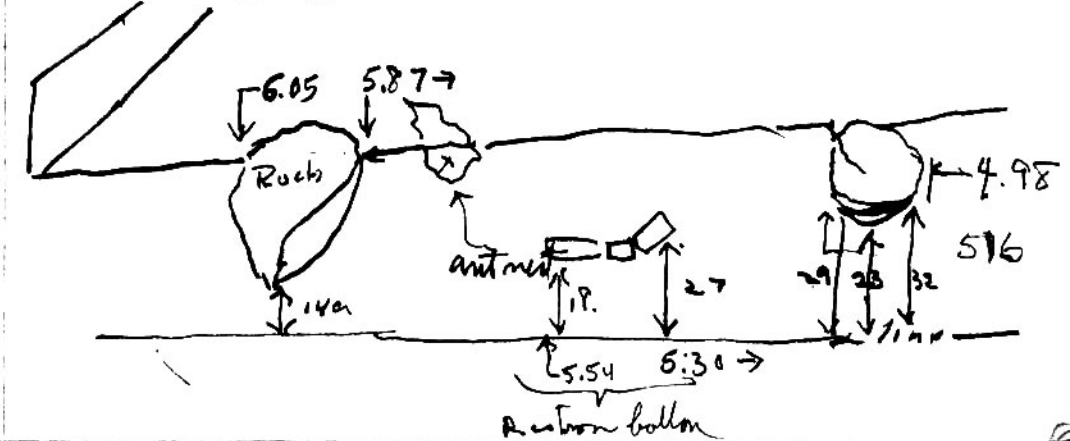
375	400	425	450	475	500
39	37	36	32	28	26

20 cm drop to line for next measurement

Surface of separation 4

525	550	575	600	625	650
43	40	35	33± Rock	28	25.

Surface of separation 4 - taken out March 20th



March 21. ⑤ of Layer 5 Area 2A of 1A before removal

325	350	375	400	425	450
36	36	37	31	29	23

Line lower by 20cm

475	500	→ 525		550
20	15	31		27

575	600	625	650
25	#6/#7 below ⑥ large slab	14	10±

March 20

Began removal of layer 4. a somewhat arbitrary division but apparently quite close to if not on the strata structure

Layer 4 tapered to nothing at the surface of the underlying rotten rock irregularly across Area 2 starting around 300 cm from O line

Started removal in 2A. working down slope. Many angular burned stone some charcoal

Mar 20 continued

some shells. very little bone. Removed 2½ loads of dert. 2 load of stones. At juncture with Area 1 A average thickness of layer 4 ranged between 3 & 3½ inches. Some large stones. (See Mar 25 Polaroid shot.) extended from the surface of Layer 4 down into Layer 5. Thin true also in Area 1 A.

From Area 1 A Layer 4 yielded six loads of dert & three of stones not including the largest ones left in place. Virtually all sherds came from the down hill third or quarter of the area and seemed to be concentrated in the upper half of the layer.

Elmer returned just at nightfall

March 21 Area 1A & 2A

Layer 5 extremely hard brownish-yellow earth in northern 1/2 (5M →), looser, yellower earth in southern 1/2 (5M - 6M). Breaks into clods; shell very sparse.

Carbon fairly dense (in specks) over the area where last occupation grades onto base rock (against eastern wall, c 5 - 5.50 M, on same level as carbon taken in earlier cut).

Carbon

Area 1A from c. 0.5 - 0.15 above datum.

No sherds appearing. Area 1 about 50 x 50 cm. following gradient.

It seems that shell and yellow stone and sherds represent one "dump".

From Area 2A 2 loads dust plus 2 loads of clayey lumps and stones

From Area 1A - 8 loads dust plus 2 1/2 loads of stones and clayey lumps The only sherds from Layer 5 were in dust cut from wall at the

March 21 (contd) end of the Area 1A it is to down hill end and may well have been loosened from dirt above the surface of ~~Layer~~ 5 Two broken nos should be checked against broken sherds in 1A - Layer 4 Lot.

By mistake a small portion of dirt from 2A and a few flakes found when removing it went ~~with~~ with the 1A material..

Top Level 6.

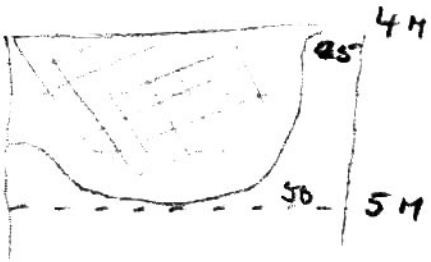
22/3/74 A.M. Remainder of area 2A taken out: cultural remanent abov the sterile.

Measurements above datum

4 M	20.0 CM
4.25	15.0 CM (CAVITY) [20.0 CM]
4.50	17.0 CM

4.75 12.0 cm
5.00 5.0 cm

There is about 25 cm. of cultural debris abutting against bedrock at 4M mark and 50 cm at 5M mark:—



4 barrows sifted. Last barrow empty represents about last 5 cm of deposit, when ~~root~~ action appears to have dropped carbon below natural layer.

CARBON Carbon sample collected in this unit, between surface (20 - 5 CM) and about 5 cm. beneath datum line. Collected from surface of last of "block" (see above). That is from 5M to

4 M lines
No pottery.

22/3/74 PM. Level 6, Area 1A

Measurements of top of level
5 - 6.50 M

5.00 6.0 CM
5.25 20.0 CM (20 cm drop)
5.50 12.0 CM
5.75 5.0 CM
6.00 3 CM BELOW
6.25 8 CM "
6.50 10 CM "

23/3/74 A.M: Took measurements of eastern face of trench SW-A (~~4.5~~). (1.5-6.5M)

(11.00 A.M) P.M: Set out trench SW-B (~~4.5~~ (4M-6.5M.) 1.5M west of SW-A. In fact 17.25-18.75M.
Split into two units; excavated first, first half of Area 2B [4M-5M]. Taken to c. 3cm. all over, attempting to follow trend of strata discerned in wall of earlier Trench. There is a hump in the centre a few cms higher. Land stripped off over hump. The top layer is ~~really~~ compacted dust ~~with~~ which stops quite abruptly on harder, ~~darker earth~~. ~~Part~~ of the cultural ~~material~~ seems to come from transition of yellowish, hard dust and compacted earth.
One decorated sherd:

Punctate

Depth of Sondage (5H):
3-4".

Area 1B excavated. Material not as dense as in 2B. Average depth 3", division between hard yellow and brown earth not easy to determine, as feature disappears over edge of unit. Stones mixed more frequent in SW corner — small, jagged, irregular. Roots thick and not-like in southern end. Piece of glass found here.

Stratum 2B, Level 2.

24/3/74 Continued 2B, Level 2.

Material dense in northern end of N end where stones are larger. Stones seem to disappear after c. 1½". In northern end, there are pockets of hard and soft alternating.

3 associated stones (in feature).

3-6" approx.

March 26. While cleaning SW side of excavated area 1A & 1B Richard found the base of a point sticking out that wall - near center of the SW side, area 1A, 3 cm below bottom of Layer 4.

Might have been longer & broken transversely

27/3/74 Started extension of BL Trench. 7 - 9m. Average depth c. 3½". Roots dense. Loose stony greyish soil. Large stones in middle half, about half above stripped level. (6) banana.

Level 2 Continuing very stony, with roots. 2 decorated sherds (in fn) Rubbish applique

Square 2.

(8)
(2)

Loads March 27 Dust from ⑤ - 1 no yield
Area 4 O Layer 1 - 8 loads + ½ 2 loads slow
" 2 7½ "
" 3 - 4+? + 1 " "

Level
7½ 3 Stones peter out, or at least become rarer, all over unit. There seems to be an floor, with embedded sherds, at the base of the level.

Level 4 Sherds continue to be dense.
to all over deposit.
28/3/74
Level 5 Sherds diminish in upper (northern end). Earth more gritty and breaks along horizontal plane with some wood shovel. Stones freq. seemingly more pieces actually broken from soil. Two large stones in S end perhaps on surface?

Level 6 Sherds rarer. Still "gritty" and hard deposit. Abundance
10 barrows of small flakes of shale and point with stem in southern end. Sherds predominantly in northern end. Clean surface of last level.

c. 30 cm. from 7M mark, south, there is an ashy lense of c. 50 c diameter - loose, stony material.

Level 7. Charcoal in edge of cut (c. 5 cm. from edge (7M mark).

Carbon sample collected for base of this level and c. 5 cm. BENEATH NEAR LEVEL. At base of ashy lense which seems to have been a small pit?? Large pieces concentrated but only 10 cms.

CARBON
From 7M — 80-90 cms.
From SW wall - 15-20 cm.
Depth below mark of level 6 8 cm - c. 13 cm.
" " surface 6.5 cm. (70)

Note; the southern end is deeper than the northern. Part of it was cliff and covered with sifted dirt. Not in Layer 9 was extracted as an arbitrary

unit which varies in depth according to the slope. Walls placed to mark level of level 10.

2/4/72 specimens numbered 69

Area ~~00~~ 01 taken out. (Bags marked 01)
A ~~2~~ 1.75 x 1.5m. extension of Area 0 made to expose more easily the unexcavated areas of Area 0. Surface very irregular due to the construction of wheelbarrow ramps. * (9.00 to 10.75 m SW.)

25 cm thick stone 5 cm protrudes above surface

Large stone in western wall. Protrudes 35 cm. into pit. About 40 x 85 cm. in diameter. 60 cm. from 2 m. mark. Lies on base 2/3.

~~Specimens~~ Cat. no 74 →

Matter from beneath this stone, from ground is and matter cleaned from walls bagged separately. I.e. Surface to bottom of level 4

* "Data for bag:" 8 + a little (loads) barrows. Representing about 0-3", but very irregular due to mat of roots, boulder, etc. On NW about 4½" taken out where dirt had piled up against a large boulder [slab of rock] constant use of barrow had left large

(69)

There is a stratum change in this unit at about base of Level 3 when fine, relatively stoneless earth becomes dry, less compact and far more stonier. This continues to base of Level 10A when there seems to be a floor of less stony, yellow earth which appears all over unit, except for western corner. On brushing, this level is noticeably more stone free than former levels. However, when broken with pick, it breaks up very similarly though in definitely smaller and harder clods. yellow stained wood flecks occur about 3".

Cat no 70. Data f. bag: "6.3" to c 7". Area 01, Layer 2, 9-10.75m. Much less stony than corresponding area in Area ± 1. Sherds nearly all found in bottom 1/4 (southern) of level. A large number of large roots had worked across this level, i.e. were lying flat upon it base. 9 barrow loads"

groove thru center of unit."

8-4-74

Measurements of Elmen hole:
West end at 15.75M
18.40M. Centre (diameter)
60. CM Diameter of hole
x 60
2m Depth below surface
65 CM { Depth below surface of head at centre of hole.
6 CM { Depth of centred at the pit (15.40) depth of

Measurements of centred along base line

18.00	6	CM	16.00:	8 CM
18.50	8	CM	15.75	9 CM
75	8	CM	15.00	8-5 CM
17.50	11	CM.	Between 15 & 14.75	
17.00	8	CM.	drops	
16.50	8	CM.	.8	.15 .10.
16.40	4	CM		

April 13

Data on cliff face-angle

Along the profile recorded for SE side of areas 9 & 10 at

(1) 148 cm SW of base line the dx to the surface of the cliff, measured with plumb bob is 7.65 m

(2) at ~~278~~ 118 : 4.23 m from base line along same profile the face of the cliff is 9.20 m above ground surface in (9.20)

(3) On surface profile at 23' the cliff face is 7.65 m above the (5) at 1.86 from base line to SW.

(4) At 3 21 on same profile to SW the face of the cliff is 3.78 m above the surface which is [redacted] below the level line
32 cm

(5) On the surface profile of the SE side of areas 1 to 4, 83 cm SW of base line the cliff face is 7.65 above the ground surface - now 15 cm below line

4.23
.45
3.78

April 13

(6) Data re cliff face: cont'd
along same profile as (5)
at 9.68. To SW from base line
the ground surface is 9.01 below
the cliff face.

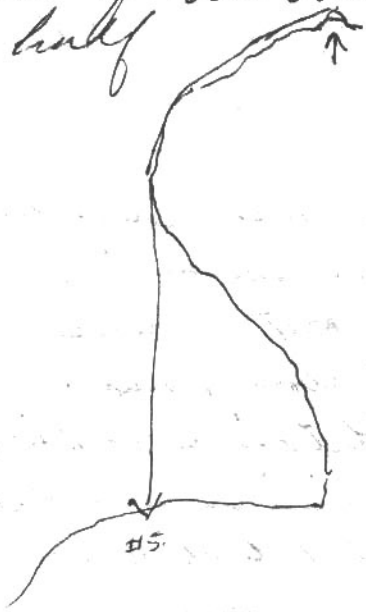
(7) At the point on floor plan
marking the location of Liana or fine root
suspended from outer edge of the cliff
at the beginning of the broken area
the surface of the ground is 9.30 m
below the cliff edge
(Location of Liana spot is 9.50 m
base line by 1.50 to SE.)

705
C 05
930

April 13 S W end of Area 01 not plotted as the layers are removed were fairly even in thickness from NE end of trench to the SW end. Other hand there are no traceable strata variations in the material. A plotting of the separation can be made from the record of the removed layers on the SE-NE profiles of this trench, near O and 01.

April 13 The max. & min. thermometer registers 85° as maximum 73° as minimum during the past 3 weeks. It has hung about 18" above ground over a hollow on the shady protected side of a tree trunk within the shelter where the wind blows across the floor. Used it to check temperature in the Tiles water bag in the "kitchen area - Water temperature was 73° at 12:15 P.M. when adjacent air temperature was 83°. Need thermom to contact the recording clings & hung at the tree in the shelter

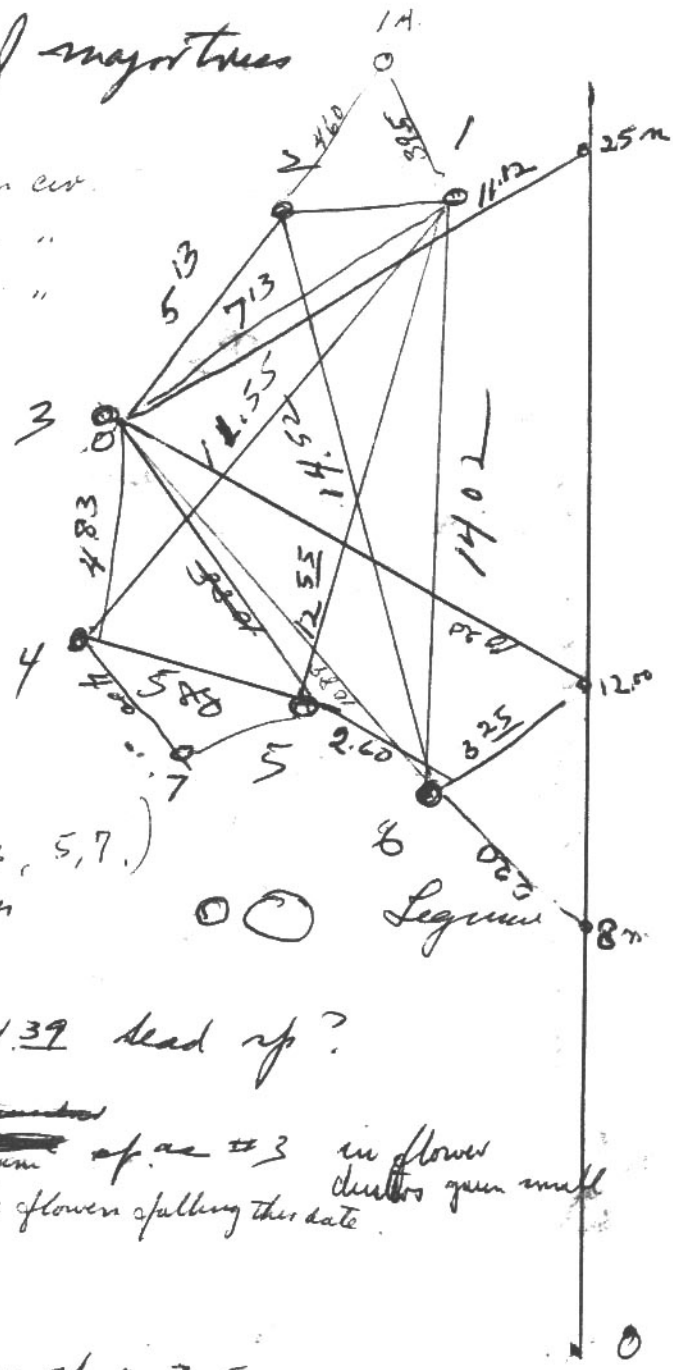
April 14 with Eve and Fritz to top or highest point above shelter to drop plumb bob 5 places dropped. See location data in relation to baseline. Numbers 4 & 5 landed within one meter of each other and from there to peak. From above shelter the line measures 46 meters Only part of this rise vertical - prob. all over half



This would mean that the vertical drop would be about 25 m.

April 15 Location of major trees

1 Mango, 96 cm circ
2 " 78 cm "
1A " 1.00 "



(Harino = 3, 5, 7.)

3. circ. 88 cm

4 circ. ~~1.40~~ 1.39 dead sp?

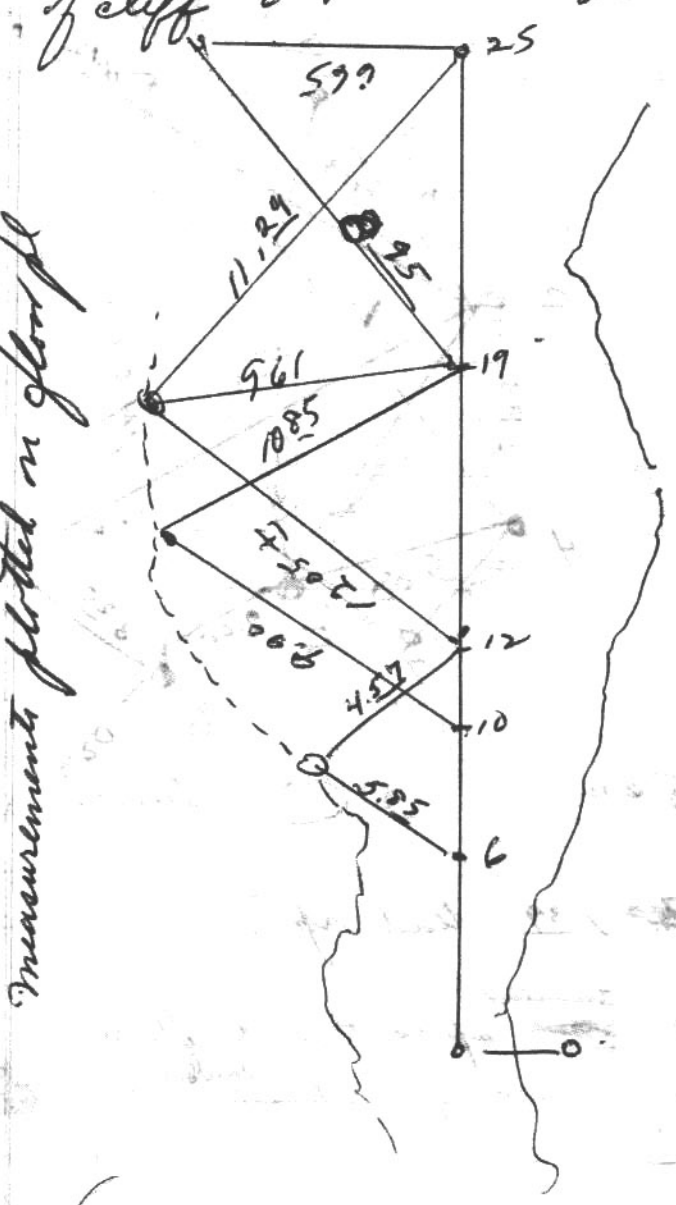
<5 circ. 1.25 ~~Same~~ ~~Same~~ sp. as #3 in flower clusters grow small small lavender colored, pea blossom like flowers, falling this date

6 Circ. 1.20

7. circ. 1.49 same sp. as 3 + 5

(Measurements are between nails in trunks)

(April 15 Location of plumb bob fixed on edge of cliff

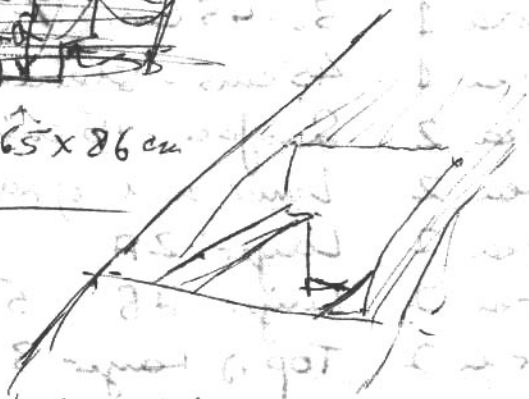


(copied onto floor plan)

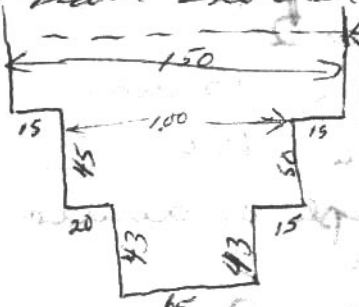
April 16 Look-see pit at juncture of Areas O and O1

Section across trench at

Floor of pit 65 x 86 cm



The material exposed in vertical section beneath the lowest occupational debris is all rotted rock. Friable angular stone are embedded in loose earth as are stone chips. Any small pieces of stone falling here prior to occupancy must have rolled or downslope



Photod - 2 shots Color

Bottom of pit 65 x 86 cm

Assigned catalogue numbers

1 Surface dust March 1st and 3rd.
2 Area 1. Surface - 15 cms. March 3rd. 1½ loads
3 Area 1. 15-30 cms.
4 Area 1 30-45 cms. 7-3 (4) = (9) m Imc see comments back of card
5 Area 1 45 cms - Sterile (Base)
6 Area 2 Surface - 15 cms. 4-3
7 Area 2 Lower part of Layer 1 5 loads - Clearing N.W. side of area. Many cracked pieces. 1 small flake all discarded
8 Area 2 Layer 2A 5 loads
9 Area 2 Layer 2B 5 a 7 March. (9) = (4) m Tm
10 Area 2 Top of Layer 3 { Pit ? with broken stones.
11 Area 2 Layer 3 - March 6
12 Areas 1 and 2 Material embedded in surface of subsoil. Between 4.70 + 4.90 S.W. end Area 1 & 4.70 surface not to be reached Area 2 March 8
13 Area 3 Layer 1 (0-15 cms) 6 loads March 4
14 Area 3 Layer 2 Mar. 6
15 Area 3 Layer 3 (surface of)
16 Area 4 Surface - 15 cms Mar 4 7 loads
17 Area 4 Layer 2 15-30 cm 2 loads Mar 5 & 6
18 Area 5 Surface - 15 cms. 1 load Mar 4.
19 Area 6 Surface - 15 cms. Mar 5/8 loads
20 Area 6 { Sample of altered stone
21 A Area 7 Layer 2 - 0 - 15 cm. - 13½ loads
21 B " " " " 15 cm to bottom 5 loads

22	Area 8	Layer 2	0 - 10 cm	Mar 12
23	Area 8	Layer 2	10 - 20 cm	" "
24	Area 8	Layer 2	20 - Black	1 sm. piece not assigned art in catalogue
25	Area 9	Layer 2	0 - 10 cm	
26	Area 9	Layer 2	20 cm - Black	
27	Area 10	Layer 2	13½ loads	Mar. 13
28	Area 10	Urn fragments	1½ "	" 14 Mar artifact in pit dug thru base no ash found beneath urn
29	Area 10	Face of cliff	1 load	N. base of cliff above sorted loc 2
30	Area 1A	Layer 1	(0-3")	Upper lev. arbitrary set ± same thickness as Levels 1 in Area 2 & 3
31	Area 1A	Layer 2	(3-6")	Mar 18-19 Type copy N. bag - back of
32	Area 1A	Layer 3	"	" " " " "
33	Area 1A	Layer 4	Mar 20 6 dirt 3 st.	" " "
34	Area 1A	Layer 5	March 21. 8 loads dirt, 2½ st. rocks + daggers + pumps + sherds - face of wall and edge of
35	Area 1A & 2A	Layer 6	1A = 35A 2A = 35B	see notes in back Mar 22 10 dirt, 1 stone
36	Areas 1A & 1B	Bottom Layer		Mar 30 See Notes
37	Areas 1B & 2B	Layer 1	Mar. 23 Dirt	" " "
38	Area 1B	Layer 2	Broom, hand dust	equal in Time Layer 2 for 1A, 2A, 2B Mar 24 - 5 loads dirt, ½ stone
39	Area 1B	Layer 3	Mar 24 8 loads dirt	½ stone
40	Area 1B	Layer 4	9 loads dirt	1 stone
41	Area 1B	Layer 6	14 loads Mar 28	[No. 1B Layer 5 see No. 52, 53]
42	Area 2A	Layer 1	Mar. 7. Equates ± W. Layer 1 in area 2, & Area 3 Layer 1 3A.	
43	Area 2A	Bottom Layer 1	See notes in back.	Mar 18 1 load
44	Area 2A	Layer 2		Mar 19 See notes in back of book
45	Area 2A	Layer 3	Mar 18.	" " "

46	Area 2A	Layer 4	see Notes in back of book. Mar 20 - 2½ dirt, 2 stone
47	Area 2A	Layer 5	Mar 21 2 dirt, 2 stone see Notes in back of book
[redacted]	Area 2B	Layer 1	[See 37]
48	Area 2B	Layer 2	Mar 23 + 24
49	Area [redacted]2B	Layer 3	Mar 24 6 dirt 1/4 stone see Notes, back of book
50	Area 2B	Layer 4	March 25 - 4 loads dirt
51	Area 2B	Layer 5	" " 4 " " see Notes, back of book
52	Area 1B	Layer 5A (Upper half of layer 5)	Mar 25 - 5 dirt " "
53	Area 1B	Layer 5B (Lower half of layer 5)	Mar 25 - 5 loads 5A + 5B = Layer 5 in area 2B + 3rd in 1A + 1B
54	Area 2B	Layer 6	Mar 26, 6 loads see Notes, in back
55	Area 3A	Floor Separatia	equates w. Layer 1 in areas 3, 4, 5 Layer 1 Mar 17
56	Area 3A		2⅓ loads Layer 2 " see Notes
57	Area 3A	Layer 3	Mar 18 " "
58	Area 3A	Surface of rock	2 loads Mar 19 " "
59	Area [redacted] of	Layer 1	Mar 27 " "
60	Area of	Layer 2	" " " "
61	Area O	Layer 3	" loads 7½
62	Area O	Layer 4	Mar 27, 28 - 9 loads
63	Area O	Layer 5	9 loads of dirt Mar 28
64	Area O	Layer 6	Mar 28 - 10 loads
65	Area O	Layer 7	Mar 28 + 29 see notes, center of book ~~4 loads of dirt~~
66	Area O	Layer 8	Mar 29 - 1 load stone, 11 of dirt
67	Area 6	Layer 9	

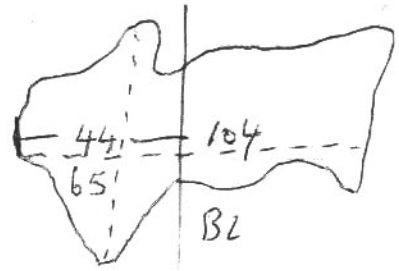
68	~~layer 1~~ 0	Area #0 3/Jan 29 2 loads ston
69	Area 01	Layer 1 8½ loads of dirt
70	Area 01	Layer 2 9 loads of dirt
71	Area 01	Layer 3 Op 2 - 9 loads - see Notes -
72	Area 01	Layer 4 Op 2+3 - 8 " " "
73	Area 01	Layer 5 Op 3 8 loads —
74	Area 01	Material taken out by Op 3 7 loads big rock (Layers 1-4) see Notes - in
75	Area 01	Layer 6 Op 3-4 9 loads - no shov
76	Area 01	Layer 7 Op 4 - 6½ dirt 4 stone
77	Area 01	Layer 8 Op 4 - 7 dirt - 3 stone + c/rumbs see Notes (1 skull)
78	Area 01	Layer 9 Op 4+5 7 dirt 2 stone see Note
79	Area 01	Layer 10A 8 dirt 2 stones - see Notes
80	Area 01	Layer 10B Op 5 - 7 dirt, 2 stones surface easily traced on most of area
81	Area 01	Layer 10C Op 5+6 - 4 dirt 1 stone - Not
82	Area 01	Layer 11A Op 6 - 5 loads dirt 1 stone No
83	Areas 11 & 12	Surface nothing - ex. 1 tooth frag
84	Area 11	Layer 1 Op 6 - 6 small loads - Not
85	Area 11	Layer 2 Op 16 6-9 dirt 12 stone "
86	Area 12	Layer 1 (see bag) Op. 2 "
87	Area 13	Layer 1 Op 17 5 loads "
88	Area 13	Layer 2 " ? 5 " "
89	Area 14	Layer 1 " " 7 " "
90	Area 15	Layer 1 " 18 2 " "

91 Surface dust Op 18 1 bag Layer Area 16
92 Layer 1 Op 18 - 5" Notes Area 16

16 10 74 Area # 11. From BL, 2 M north. 14.25 - 15.75 M.

Stone in corner

Dimensions:



LEVEL 1

(83) After sweeping of fire, loose dust (which contained a few amorphous sherds and a fragment of human tooth), Level 1, a ~~layer~~ layer of compacted yellow dust with fine lenses, was removed. This varies from c. 1/2 to 10 cm. in depth, but averages c. 5 cm. It is crumbly. There being several visible pockets left by roots and fire activity. Near the stone, the layer plunges, reaching its maximum depth of c. 10 cms. (84) & small loads.

Level 2 6 Half Cuts. Level 2 is very irregular, ranging from c 1/2 cm. to 10 cm., according to placement of roots. The only material seen by RC was on top of this level, pressed into its surface.

(85)

Cut # 12.

Started in fan end against the wall; loose, yellowish brown, damp humic soil, mostly in cracks formed by wall and underlying rock. (86)

Level 4

Three buckets from fan end, against wall, loose, yellow brown earth; the last mixed with A11 (?) also included within 7 barrows

3-4M

16.V.71. 5 barrows taken out of compacted sterile earth: mixed and sifted. (From 3 - 2 M) 3 sifted, two dumped.

No artifacts

17.4.71 Continued to take out remnants
IIIII of brown earth against wall, in
(86) 3-4 M. unit. Against wall
the earth dips down very suddenly.
5 cans (full), all sterile

Continued taking out what is
tantamount to Layer 2 in
Area # II: hard, compacted soil
~~clay~~ grading into the underlying
rock, though there is more rock
IIII than dust. 3-2 M. STERILE.
4 cans (full)

The only artifacts from Area # II
came from the surface (0-15 cm
approx) of the 3-4 M. unit;
i.e., the yellow, humic soil.

Area #13.

14 M ⇒ 12 M.

11/11 Level 1 loose dust.
5 Barrows (small).

This varies in depth from only c. 1 cm. (in eastern half) to c 6 cm. (in western half). As elsewhere in cave, it consists of pockets left by roots, fine lenses with calcite, seed fragments etc. and dust.

Cultural material sparse.

Level 2
5 barrows Hard, compacted soil and several small stones in northern end (clay BC) The jaw of rock comes down from wall, dropping as an escarpment into a kind of chasm.

Area #14 RM - 10m

At this level of humic soil, roots are overlies bedrock, with level 2 barely discernible. In eastern end of area there is a "pit" of mixed rock and earth, this was sterile. All artifacts came from the humic level (c. 1 - 8 cm.)

(89)

7 beams

18.4.74. Area #15. 10 - 8 m

As in Area 14, all material is from the humic level (2 beams). On southern wall, there are a series of depressions which were full of mottled earth and rock: these were sieved separately (2 beams) Material in foil.

(90)

Area #16 8-6m.

In this unit, there was more surface dust than in the others; this was sieved and yielded some material. The humic sand dips and locks in southern and trend, as elsewhere along this line.

5 hours

Measurements from Surface

Depth of floor of Areas 13-16, 14-6M alias BL

[See earlier for measurements of floor]

	LEVEL 1	LEVEL 2	
		9	14.00
14.00	6	11	13.75
14.25	3	7.5	13.50
14.50	2	4	13.25
14.75	4	6.5	13.00
15.00	3	4.5	12.75
	2.5	4.5	12.50
	Distinctly uncertain ———	2	12.25
	" ———	1	12.00
At this point there is a slide of 11cm down 20cm deep	3	6	11.75
	15	7	11.50
	3 grades onto rock		11.25
There is a patch of 3 levels soft rock and earth beneath the general measurements	5	6	11.00
	7	11	10.75
	4	13	10.50
	4	16	10.25
	4	14	10.00
	4		9.75

From this point on the rock represents the present day surface of the cave apart from certain small pockets of dust.

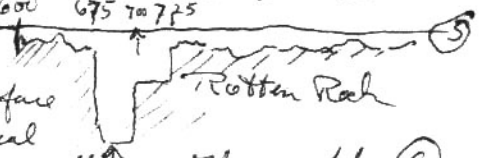
	10 M.	22
Pit	Pit Walls 9.75	
	9.75 :	63
	9.50	60
	Pit ends 9.50	
	9.25	30
	9.00	30
	8.75	30

Pit
Look-see
Auger
cut

These measurements refer to a cut made on 21/4/74 between c. 10.10M ~~9.75~~ and 8.75M. to determine stratigraphy of mottled rock and earth. Only two flakes were found during the digging; position uncertain.

The depth of this cut on opposite wall will be approximately the same as cut was made diagonally.

April 21 A further check on structure was made between 6.75 and 7.25, a small hole



cut down where rotted fallen dock surface was depressed and where the material was in part quite soft and resembled soil this was sifted with nothing recovered of cultural.

April 22 Cleared ⑤ profile at 23°° m. NW. with Top of dump sifter, from where we have rough surface record to bottom of gully.
Also continued profile along SE side of area 4, 3, 2, 1, ⓪, 01 down hillside to bottom of gully. This angles across ~~slope~~ slope which is steeper than profile indicates.

Filled 1 m trench part sleeping area cutting into washed fan. front of fissure in cliff face. leaving part of this exposed in section

(63) (64) →

(65) Info. f. bag: a few sherds were found near 7m. mark within 2 cm. of surface of level 7 (Layer 7)
There were many sherds in this area + portion of Layer 6. If the separation of Layer 6 + 7 had been slightly lower in this part of the area O, there probably would have been no sherds at all in Layer 7.

Flakes longer than wide are all percussion-made.
Longest 4½ cm. Variable in outline.
Many of very small chips + flakes would pass thru openings of 4×4 wire screen
Heavily-patinated flakes - 3 are longer than wide, 2 prismatic

All small; would yield only very small flakes, some not more than 1 cm. in length; mainly agate, 1 of quartz

Longest, 6 cm. Shortest 3.8 cm.

Stone: Area O, Layer 7

(65)

	Count	Wt.
Naturally, stress + heat fractured pieces dp.	114	1 2 7/4
Eroded, water-worn?, sandstone?	6	1 3/4
Large flakes:	60	1-9 1/2
Flakes + chips - miscellaneous material	196	0-10 3/4
- local gray-white stone	26	0-1 3/4
yellow jasper	8	0-1/2
clear + white agate	189	0-9 3/4
red jasper?	83	5 1/2
+ longer than wide	13	1 1/4
+ very small chips - mainly agate white	105	1
+ heavily patinated basalt? flakes	6	1 1/4
Chunks + spalls.	47	10 1/2
Chunk red jasper? dp.	1	8
Possible cores or core sections	9	2 1/2
Small rock crystal spimen - 17mm long, very slight battering both ends.	1	—
Projectile points, shaped by percussion trimming in part of both edges of narrow side.	2	—
~~Possible~~ base for preceeding	1	—
Mortar or grinding slab section? 4cm. thick	1	—

63 = Area O. Layer 5 March 28

9 loads.

Possible cores - both small - agate

2 are of yellow jasper

Vary in thickness from 1 cm to 3½ cm.
12 cm long.

Unidentifiable

(63)

Stone:

	Count	Weight lb.	oz.
Gross weight after washing (without grinding stones)	-	2	10
* Palmated tab - same stone as slabs			
Eroded, waterworn? small tab - do	3	-	-
Naturally stress + heat fractured pieces	do. ~~52~~ 58	-	9 3/4 ~~15 1/4~~
* Prisms cores + core sections	2	-	1/2
Angular chunks + spalls	23	-	8 1/2
* Large flakes	34	-	11
Flakes + chips: miscellaneous material	52	-	2 1/2
yellow jasper	2	-	-
clear + white agate	52	-	3
red jasper	41	-	2 1/2
longer than wide	2	-	-
very small chips, mainly agate white	19	-	1/8
Flake: with unilaterally chipped margin, ? use	1	-	-
" knife? slightly smoothed edge	1	-	-
Small rock crystal splinter - 18mm. long	1	-	-
Fragments of core? ~~margins~~	6	-	1/2
* " of grinding slabs	8	-	-
* Naturally-formed grinder?? mano, same material as above	1	-	10 1/4
Pot sherds - 2 + scrap	170	2	5 1/2
* Calcined bone fragment - do	1	-	-

64 = Area O Layer 6
March 28 - 10 loads

Nearly all same material as grinding slabs.

8 are of clear + white agate.
Miniature angular scrap - possibly pieces of flakes.

7 are yellow jasper; 6, small, of agate; 4 red jasper; 1 gray stone
Very variable in outline + size: longest 4cm. shortest 17mm

(64)

Stone:	Count	Weight lb	Weight g.
Gross weight		3	13½
• Eroded, waterworn? small bits - do.	10	–	1¼
Naturally stress + heat fractured pieces - do.	72	1	1
Sections of core margins	3	–	1
Possible cores + core sections	3	–	3¼
• Angular chunks + spalls.	38	–	8½
• Minute scrap - do	39	–	1
Large flakes	24	–	12
Flakes + chips: miscellaneous material	69	–	4¾
clear + white agate	98	–	4¼
red jasper	45	–	2½
tiny chips	46	–	⅜
• longer than wide	25	–	3
heavily patinated basalt? flakes	1	–	⅜
Pieces of rock crystal	2	–	–
Flakes with possibly smoothed edges	2	–	
" " unilateral nicking for use at point margin	1	–	1½
Side scraper " trimmed edge	1	–	
Projectile point, percussion trimmed stem	1	–	
" " ? unilateral chipping both sides of point	1	–	
Last Chip from grinder? mano	1	–	–

(66) Area 0, Layer 8
March 29 - 11 loads of dirt, 1 of stone.
*1

66B Discarded: 51 minute scraps - wt. 3/4 oz. These are small flakes, pieces, frags. of flakes - Too small to determ with certainty which are naturally broken.

66A ~~All~~ fragmentary: 1 of agate

66C Cores: 2 of agate - The only complete one, not agate, weighs 5/4 oz.

66B 6 are of yellow jasper (large flakes)

66B 1 yellow jasper - 2 red jasper (longer than wide)

*1

66C 1 projectile point questionable - unfinished?

*1 { 66A - collected by J B at sifter
B " " C.P " "
C " " R.C at dig
These 3 were combined after recording

(66)

Area O Layer 8

Gross weight:

	66B Count	66B Weight lb	66B Weight oz	66A Count	66A Weight lb	66A Weight oz	66C Count	66C Weight lb	66C Weight oz	Totals lb	Totals oz
		3	6		2	13¼		2	13¼	11	
Eroded, waterworn? small bits - dp.	2	–	–	3	–	–	–	–	–		
Naturally stress- + heat-fractured pieces-dp	96	1	15¼	156	1	1½	12	–	3		
Possible cores + core sections	2	–	3⅜	5	–	2½	6	–	10½		
Angular chunks + spalls *1	27	–	5½	22	–	7	17	–	11½		
*Large flakes	21	–	5¼	17	–	4½	21	–	10½		
Flakes + chips: miscellaneous material	52	–	2¾	76	–	3¼	7	–	¾		
red jasper	39	–	2¼	65	–	3¼	18	–	1½		
clear + white agate	61	–	3¼	148	–	5½	16	–	1¼		
tiny chips	19	–	–	73	–	½	–	–	–		
* longer than wide	4	–	⅜	6	–	½	3	–	¾		
very small longer than wide-agate	–	–	–	7	–	–	–	–	–		
1 heavily patinated basal? flakes	–	–	–	2	–	¼	–	–	–		
Pieces of rock crystal	–	–	–	8	–	⅜	–	–	–		
Angular chunks of agate *1	–	–	–	25	–	5½	6	–	1½		
(Very small, eroded pot sherd dp.)	1	–	–	1	–	¼	–	–	–		
Flakes with possibly smoothed edges.	–	–	–	3	–	1¼	3	–	1¼		
" " use nicking	–	–	–	1	–	⅜	1	–	–		
Side scraper, unilateral chipping	–	–	–	1	–	⅛	–	–	–		
*Projectile points	–	–	–	–	–	–	5	–	–		
Water worn pebble	–	–	–	–	–	–	1	–	–		

(67) Area 0 - Layer 9

C Cores - 2 complete, residual cores: one 2½oz, one 1¼g.

A Mp. flakes - 3 of yellow jasper
B " " 3 " " "
C " " 6 " " " } 12

A Long than wide - 3 of yellow jasper
B " " " 1 " " "
C " " " 4 others which may have utilized margins

ng A Very small - of clear agate - length 18mm.

C Pomb: stem only ?

(67)

Area O Layer 9
Gross weight

	67A Count	67A Weight lb.	67A Weight oz.	67B Count	67B Weight lb.	67B Weight oz.	67C Count	67C Weight lb.	67C Weight oz.	Totals Count	Totals Weight lb.	Totals Weight oz.
		3	6 3/4		2	[illegible]		3	11 1/4		9	2
Eroded water-worn pieces + pebble dio	4	–	2 1/2	5	–	1 1/2	–	–	–	9		4
Stress- + heat-fractured pieces - dio	203	1	11 1/2	74	1	1 3/4	48	–	11	325	3	8
Minute scraps - dio	49	–	1	–	–	–	–	–	–	49		1
Possible cores + core sections	1	–	1/2	–	–	–	1	–	9 3/4	2		
Angular chunks + spalls	36	–	6	13	–	2 1/2	19	–	16	68	1	8
" " of agate	10	–	2	5	–	3/4	1	–	–	16		2 3
Large flakes	7	–	2	12	–	2 1/2	25	–	10 1/2	44		15
Flakes + chips: miscellaneous material	~~58~~ 71	–	3 3/4	42	–	2 1/4	13	–	1 1/2	126		[illegible]
red jasper	79	–	3 3/4	43	–	2	44	–	4	166		9 3/4
clear + white agate		–	1 1/2	29	–	3/4	12	–	3/4			
tiny chips	53	–	1/2	11	–	–	–	–	–	74		[illegible]
longer than wide	6	–	1/2	7	–	1	2	–	1/2	16		2 1
very small, longer than wide	1	–	–	–	–	–	–	–	–			
Pieces of rock crystal	2	–	–	2	–	–	–	–	–	4		–
heavily patinated basalt? flakes	6	–	2 1/4	–	–	–	–	–	–	2		[illegible]
Flake with possibly smoothed edges	1	–	–	3	–	1/2	4	–	1 1/2	8		[illegible]
Flakes with use nicking	–	–	–	–	–	–	2	–	1/4	2		[illegible]
Side scraper, unilateral chipping	1	–	–	1	–	–	0	–	–	2		–
Points	–	–	–	–	–	–	4	–	2 1/2	4		[illegible]
Hafted scraper	–	–	–	–	–	–	1	–	3/4			[illegible]
Questionables	–	–	–	–	–	–	3	–	1/2	3		[illegible]

(68) Area O - Layer 10

B Water-worn: possibly fr. thin, flat grinding slab - not discarded.

B. All frags.
C. Cores - 2 complete, weight 2½ + 4¼ oz.

A 8 are yellow jasper - flakes
B
C 7 of " yellow jasper. "

A a section of a large blade accounts for over ½ the weight

C Points - 2 broken

A + B collected at sifter. B by J.B, A by C.P. C - at wheelbarrow

(68) Area O - Layer 10

	Count	68A Weight lb.	oz	68B Count	Weight lb.	oz	68C Count	Weight lb.	oz
Gross weight		7			4	12	4	12½	
Eroded water-worn pieces + pebbles - dis	2	-	-	1	-	2¼	1	-	-
Stress- + heat-fractured pieces - dis	283	5	13¼	302	2	10	20	-	9½
Minute scraps - dis	16	-	¼	80	-	1¼	-	-	-
*Possible cores + core sections	3	-	1¾	5	-	4¼	6	-	12½
Angular chunks + spalls	23	-	4¼	35	-	8½	38	1	2½
" " of agate	1	-	-	-	-	-	-	-	-
Large flakes	12	-	3¼	4	-	1¼	26	-	11
*Flakes + chips: miscellaneous materials	108	-	6¼	148	-	10	55	-	6½
red jasper	82	-	5¼	70	-	4½	61	-	5½
clear + white agate	4	-	-	+	-	-	-	-	-
tiny chips	18	-	⅛	66	-	½	-	-	-
longer than wide	9	-	¾	7	-	½	4	-	¾
" " " very small	-	-	-	4	-	+	-	-	-
heavily-patinated basalt?	-	-	6¼	-	-	-	-	-	-
Pieces of ~~rock~~ quartz + quartz crystals	-	-	-	-	-	-	-	-	-
Pot shard	-								
Flakes with possibly smoothed edges	3	-	⅜	-	-	-	3	-	1½
" " nicked edges	2	-	¼	1	-	-	-	-	-
Scraper, unilaterally chipped edges at both ends	-	-	-	1	-	-	-	-	-
*Projectile points	-	-	-	-	-	-	3	-	¾
Stone adz fragment									
Mano grinder - frag.	-	-	-	-	-	-	1	-	7¾
Questionables - some unilateral breakage	-	-	-	-	-	-	1	-	3/4

(69) Area 01 - Layer 1.

8¼ loads of dirt.

				1	5½	
(70)	area 01 - Layer 2					
–	–	–	gross wt. 2-4½	2	–	–
186	1	9	9 loads dirt.	112	–	15½
–	–	–		–	–	–
7	few	–		6	–	1
7	–	3½	+ 2 g agate	–	–	–
–	–	–		–	–	–
3	–	1½		8	–	2½
56	–	3¾		14	–	1
20	–	1¼		3	–	–
20	–	1		18	–	½
–	–	–		–	–	–
1	–	⅛		–	–	–
–	–	–		–	–	–
–	–	–		–	–	–
–	–	–		3	–	⅛
–	–	–		1	–	–
–	–	–		–	–	–
–	–	–		–	–	–
–	–	–		–	–	–
–	–	–		–	–	–
–	–	–		1	–	¼
–	–	–		–	–	–
–	–	–		–	–	–

(7) (4) Notes + Comments:

Area 1 30-45 cm. Among the stones are more than the usual amount of red jasper.

The pieces listed as spalls + chunks, weighing 2lbs 2¼ oz consisting of 59 pieces, have 19 pieces of red jasper, 1lb. 2 oz. In same lot are 13 pieces clear white agate, 4 oz.

~~7c.~~ To check:

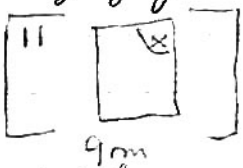
64 Sections of core margins - 3 comp 1 ✓
Possible cores + core sections 3 frag 4
~~Frag. of core? margin 6~~

63 Possible cores + core sections 2 compl 2 ✓
Frags. of core? margins 6 4

65 Possible cores or core sections 9

* ABC - poss. cores + core sec.

(79) Area 01, Layer 10A.
Data from tag: "8 loads of dirt, 2 loads of stone.
This layer corresponds to about upper 4 in. of Layer 10
of Area 0. The greyish, very loose soil, with lot
of small, jagged stones, seemed to split into a les
stony, more yellow "floor". The surface of
the floor was approximately cleaned, meanin
that Layer 10A follows, as closely as possible,
natural stratigraphy. In the western corner
however, the greyish soil
continues to dip down,
without reaching the "floor"



It is to be noted, however, that the subsequent
layer, 10B, breaks up just like 10A, and
is equally stony, in spite of the appearance
of the surface of the "floor". Layer 10B
breaks onto a hard, yellow layer.

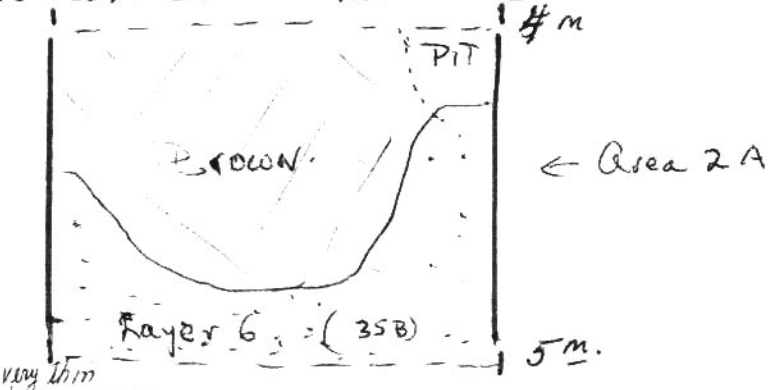
31, 32, 33 → Information copied fr. tags:

(35A) Area 1A Layer 6

Mar. 22 10 loads dirt, 1 stone. No sherds.
Hardened surface of bottom material nearly rock hard - difficult to break up + sift. More than half of each load came down sifter onto sorting table. Tried softening w. water + wet sacks - area wet in PM of Mar. 21 was softened down about 2 in. only in places.

(35B) Area 2A Layer 6. - 4 loads. - No sherds

Mar. 22 From 5-15 cm. above datum line to 10 cm. below, between c. 4 + 5 m. mark



Sodden with water and scraped for about 10 cms. Below, earth broke into clods of about 5 cm. At about datum level cultural level is mixed with pieces of yellow + white rock. Last barrow load, which represents c 5 cm., was completely sterile.
Carbon present throughout unit. Sample taken (5) to c. 5 cm. below datum.
Pieces were scattered.

(31) Area 1A Layer 2 "Second separation approximately concentric w. surface. Somewhat arbitrary
Mar. 18+19. separation, 3 in. thick, starting with what appeared as strata trend on vertical section exposed by Areas 1, 2, 3 trench. This must equal in time the material from Area 2A based on same surface, the 4th lot packaged on Mar. 18, from 2A + perhaps the 3rd lot also.
Loads - (6? in all, one not quite full - (5 3/4)
Probably 8 3/4 - see below.)

Mar. 18 "Total loads moved Mar. 18 - but not clear which layers
13 loads in all:
Area 3A - brown streaks (1 load)
" 2A - 1/2 brown streak - 1 load, bulging part of surf
? from fire stone area
? from fourth portion front area 2A
? from Area 1A (Prob. 3)

(32) Area 1A Separation 3. "A semi-arbitrary division
3 in. thick on average. Concentric with
Mar. 19. surface. Apparently equates in Time with the corresponding Separation in Area 2A".
(see also Info. on Temperature)

(33) Area 1A Layer 4.
Mar 26 Equals separation 4 from Area 2A in Time.
Thickness 3-3½" along upslope edge, up to 5" on downhill side
½ loads dirt, 3 of sterile. Many stones. Virtually all sherds
in lower ½ of layer 4 (downhill) & most in upper ½ of layer.

(36) March 30 + 31. Areas 1A + 1B.

Material obtained when cleaning upper few cms. of rotten rock in Areas 1A + 1B. The downhill portion bordering base of excavation wall along SW. sides of Areas 1A + 1B Equals in time bottom portion of Layer 5 in Area 1B + upper part of Layer 6, mostly sterile, in that area.

(37) Area 1B, Layer 1 - March 23 - 6 loads dirt
March 23 A downslope continuation of Layer 1 in Area 2B, they equate in time.
Average thickness around 3 in.
Stones in westerly corner. Many fine roots towards outer part of 1A area

" Area 2B, Layer 1 - 3½ loads dirt
Sherds lay at bottom of this thin topmost dirt (1 dec shard)
Average thickness a scant 3 in
Separation followed reasonably - traceable surface, the same as followed in Area 2A. In time, this must equate with Level 1 in 1A, 2A, 3A.

(44) Area 2A Layer 2.

March 19 3rd main separation; a somewhat arbitrary divisi more or less concentric with surface, following seeming strata as exposed in the Areas 1, 2, 3 trend This lot from layer c 3 in. thick. Equals in time the third layer removed from Area 1A.

(43) Area 2A Bottom of Layer 1. - 1 load.

March 18 From slightly higher area over center of area, under Layer 1. R. thinks it overlies the yellowish, thin, clayey film, and equates it with, + should have been included with, Layer 1. J B uncertain of its relationship.

Amount removed - 1 load - yielded more flakes than any one load of Layer 1 material.

(45) Area 2A Layer 3 - 4 lots.

March 18 Lower material above sterile, rotted rock. More or less arbitrary separation 3 in. thick across area following natural strata as closely as it could be followed, as exposed in vertical section.

Will equal 2nd separation of Area 1A

(46) March 20 Area 2A Layer 4 - 2½ loads dirt, 2 of stone

Major Layer 4 equals Layer 4 in Area 1A.

Thickness of layer at down slope edge next to 1A about 3 in. It tapers to nothing about 3/4 way up slope within the area. It rests on the sterile, rotted rock

(47) March 21 Area 2A Layer 5 - 2 ~~layers~~ loads dirt, 2 of stone + clay lumps.

Starts irregularly across the unit, where it thins to nothing on the surface of underlying rotten rock, and was an average of 3+ in. thick at its downslope edge

The one oyster shell lay bedded in the surface of Layer 5.

(49) March 24 Area 2B Layer 3 6 loads dirt, ¼ of stone.

Hard, brown dirt. Layer continued in from Area 2A.

(51) March 25 Area 2B Layer 5 - 4 loads lumpy dirt - No sherds

Subdivided in Area 1B into Layers 5a + 5b, the division at the mid-point, top to bottom. This was done because in Area 1A the sherds seem to be limited to top half of Layer 5.

(52) March 25 Area 1B Layer 5A - 5 loads of dirt

Upper half of Layer 5 separated to check if any sherds occur at this depth as suggested by Layer 5, Area 1B, where some sherds ~~lay~~ imbedded in the upper portion of Layer 5, near the SW wall of cut.

(54) March 26 Area 2B Layer 6 - 6 loads dirt

An irregularly thin mixture of dirt + some burned? stones on + in the underlying light yellow-brown dirt + decomposed rock, all on a sloping surface. A portion of the same, with possibly later material on its top was taken out + sifted separately - later combined.

(56) March 18 Area 3A Layer 2. First separation: 2 loads. (+ 1/3 load from Area 2A had 1 chip only - added to this lot) - No sherd

A yellowish thin film, averaging between 2 + 3 cm some places only 1 cm thick, others perhaps 4 cm.

(57) March 18 Area 3A +

1. From depression at intersection of Areas 2, 3, 2A, 3A, extending westerly. Below thin, brownish coating taken off of Area 3A as 2" portion was removed. 1 sherd at bottom, i.e. surface of rotted underlying rock.

2. Hollow, rock-filled angularly cracked + fire-broken part used as hearth.

(58) March 19 Area 3A - Surface underlying rotten rock: the bottom of 3 separations yielding 2 loads dirt.

This marks beginning of occupation on top of what is now rotten rock

(59) March 27 Area O Layer 1 (arbitrary division, 3-4 in. thick)

The surface of this, at the entrance to the barrow path, was, in places, eroded below its undisturbed original profile. All loose material swept up + sifted yielding 1 flake + 1 small sherd - both added to position uncertain lot

(60) March 27 Area 0 Layer 2

This area is on drip line, with many small pieces of stone + some larger pieces fallen from above. No freshly-fallen ones on surface. Accretion rate seemingly quite slow. Digging difficult.

(71) April 2 Area 01 Layer 3 9 loads of dirt.

Continuing fairly loose, dry, greyish-brown earth with stones noticeably more frequent by volume than in Layers 1+2, especially in lower (southern) end.

(72) Ap. 2+3. Area 01 Layer 4 - 8 loads.

Sherds nearly all in northern, east ¼.

Continuing soft, dry, dusty and fairly strong soil.

(74) Ap. 3 Area 01 Layers 1-4 7 loads

This represents material dragged to base of large boulder in Area 01, Level 1+2.; loose material from shape down of walls and material dug loose around boulder, to west of west wall. (J.B. - Upper material loosened to remove large rock? Layers 1+2, 3+ perhaps top of 4) Surface dirt 8 in. thick around stone, which had to be removed.

(78) Ap. 4+5 Area 01 Layer 9. 7 loads dirt, 2 stone

Material seems to be at least half small stones,

(76) Area 01 Layer 7 - 1 sherd at top of Layer 7, SE quadrant of the unit, i.e. near 9 m. mark on the 14.75 excavation wall face. Either the layer above this point was cut too Dpm, or the sherd had worked down some root or animal hole p. higher up.

by volume. - golf ball-size or less - all fallen from above shelter. Separates quite easily on what seems to have been original slope surface, [illegible] by position of rare, flat rock pieces.

(81) Area 01 Layer 10C. - 4 loads dirt, 1 of stone.
ap. 5 & 6 ("dirt" has many small stones by volume - well over half.)
Compact material has to be loosened with pick.

(82A) Area 01 Layer 11 5 loads dirt, 1 of stone.
ap. 6

(82B) Area 01 Layer 11 7½ loads dirt, 2 of stone
ap. 6 Hard, stony material resting on brown subsoil

(84) Area 11 Layer 1 6 small loads.

Ap 16 Soft, compacted dust, irregular in level, yellowish in color. Various lenses of fire activity. Varies in depth from c. 10 cm. to less than 1 cm. Peters out as 2 m. line is approached.

(85) Area 11 Layer 2

Ap. 16 Irregular layer of compacted hard dust. Dips according to placement of roots.

(86) Area 12 Layer 1 12 loads dirt, 9 loads sterile.

Ap. 2 All artifacts are from 3-4 m. area, from the yellowish, humic earth on top of the mottled clay, which slopes down between the clay + the wall. There were no artifacts in the harder soil which grades down onto the rock (c.f. Layer 2 in Area 11) The cultural material stops at c. 2 m. (i.e. the soft + compacted dirt, Layer 1 of Area 11, of cave floor)

(87) Area 13, Layer 1. 5 small loads.

Ap. 17 An irregular layer of loose dust, fire lenses + hollows left by roots, from ~~1 to~~ c. 1 in to 6 in. thick.

Cultural material sparse.

(88) Area 13, Layer 2 5 loads.

Ap 1 Hard + compacted soil plus stones overlying bedrock.

(89) Area 14 Layer 1 7 loads.

Ap. 17 Only artifacts are fr. Layer 1 - dust + stones etc. - c. 0-10 cm. Distinction bet. Layers 1+2 is difficult.

Information on Temperature.

Copied p. (32) tag: "March 20, 6:30 A.M. air temp. in shelter 72°F.
Max. since arrival 92°; min. 71°. (In PM has been in sun briefly)

" from notes, April 13: "The max.-min. thermometer registers 85° as maximum, 73° as minimum during the past 3 weeks. It has hung about 18 in. above ground over a hollow in the shady protected side of a tree trunk within the shelter, where the wind blows across the floor. Used it to check temperature in the Lister

(90) Area 15 Layer 1 2 loads
Ap 18 All artifacts are from Layer 1. (humic material, roots &

(92)
Ap 18 Area 16 Layer 1. - 5 loads
Loose, humic material with roots, stones. In this unit grades directly onto bedrock without layer of compacted dirt (Layer 2).

Netting record

7/4/74 a.m. (1) Swainson's Thrush
Swainson's Thrush
p.m. (2) Lance-tailed Manakin ♂
Lance-tailed Manakin ♀
" Swainson's Thrush
(3) Rose-breasted Grosbeak ♂
Rose-breasted Grosbeak ♀
(4) Delattre Warbler
Delattre Warbler

8/4/74 Nook (3) Tennessee Warbler (6) Eucl. White-t. Dove

16/4/74 Eve. Swainson's Thrush
Swainson's Thrush

17/4/74 Eve. Swainson's Thrush (6)

On 7/4/74, a male ~~Summer~~ Scarlet Tanager and male Blackburnian warbler visited camp. The Scarlet Tanager was present the day before, also. Two Blackburnian warblers (males) were present on 15/4/74, eating with their Bellied Euphonias within the cage.

19/4/74 A.M. Lance-tailed Manakin
1 m. ♂
(7) Tropical Kingbird
(8) P.M. Yellow-bellied Elaenia
5/5/74 Blackburnian Warbler ♀. 2 instances
6/5/74 Two Yellow-bellied Cuckoos
half-way up Guacamayo
9/5/74 Yellow-bellied Elaenia (2)
(9) Empidonax sp ~~Rose-colored Flycatcher~~ (2)
(10) (?Eastern) Wood Pewee
Delattre Warbler (2)
(11) ? sp. Hummingbird ♀
11/5/74 Yellow-bellied Elaenia (4)
Empidonax sp. (4)
Delattre Warbler
Dickcissel ~~Delattre's~~ Hummingbird ♂ ♀
(12) Modest Wren.
15/5/74 Yellow-bellied Elaenia (2)

	Sfu.	Lev. 1	Lev. 2	Box.
14.00	20.5	24		33
13.75	21	30		33
13.50	24	27		39
13.25	23	28		40
13.00	23	28	31	40
12.75	22	25	32	41
12.50	24			28.5
12.25	24			26
12.00	24			26
11.75	23			27
11.50	21.5			22.5
11.25	18			24
11.00	15	24		37
10.75	12	c.21		41.5
10.50	10.5	c.13		42
10.25	9	c.4		38
10.00	8	c.12		38
9.75	7	10		30
9.50	5	15		33
9.25	6	9		26
9.00	4	11	——	11
8.75	3	6		25
8.50	3.5	8		18
8.25	3	6		11

	2	7	
8.00	~~7~~	~~2~~	25
7.75	2	11	16
7.50	2	—	15
7.25	1	—	25
7.00	1	—	28
6.75	1	—	15
6.50	1	—	6
	1	—	5
	1	—	5

Notes to copy:
Area 18 loads out Layer 1-14 My 10 + 3-4 frame shifted.

2	11	"	"
3	10½	"	11
4	10	"	"
5	10	"	13
6	11	"	"
7	8	"	"
8	5	"	"
9	7	"	"
10	7	"	"
11	5¼	"	14
12	6	"	"
13	4	"	"
14	4	"	"
15	0		18" deep

Birds, Cueva de los Chadones

Cathartes aura
Buteo albicaudatus
Columba fasciata albilinea
Zenaida macroura
Columbina rufipennis
Leptotila (white-tipped dove)
Aratinga ocularis
Nychdromus albicollis
Siptochalcis sp? rufus [Caprimulgus]
Manacus manacus
Chiroxiphia lanceolata
Elaenia flavogaster
Stelgidopteryx ruficollis
Basileuterus delattrii (rubrifrons)
Sporophila nigricollis
Arremonops chloronotus