

Pizzica
Summer
1981

Survey
Field Notes
Book

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STA. NO.	FS(-)	HI	BS(-)	ELEVATION
BM		.93 M		-0-
PT. A	2.13			-1.20
PT. B	2.25			-1.32
PT. C	2.22			-1.30
PT. D	2.18			-1.25
PT. E	2.24			-1.31
PT. F	2.26			-1.33
PT. G	.885			6.05
PT. H	1.93			-1.00
PT. I	1.89			-0.96

JUNE 1, 1981

GLORIA HOWELL
DEENA BERG

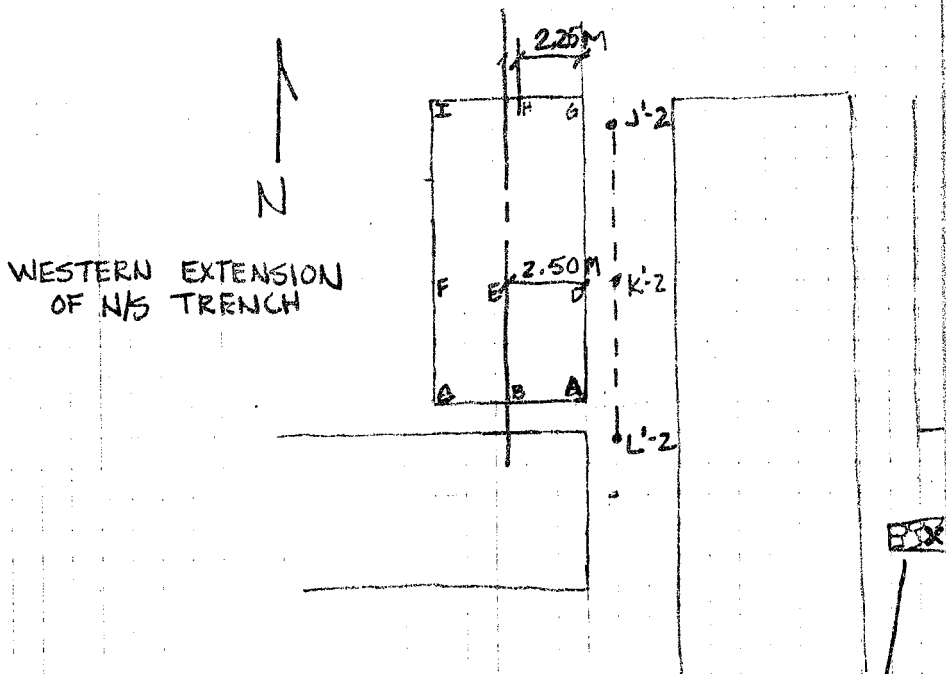
CONDITIONS: WARM, BREEZY, SUNNY
9:30 A.M.
- 12 NOON

EQUIPMENT: LEVEL, TRIPOD, STADIA. ROD

OBJECTIVES: TO SHOOT ELEVATIONS AT THIS SEASON'S 1ST
BATTUTE LEVEL * (CORNERS, MIDPOINTS)
THESE WILL BE BEGINNING ELEVATIONS.

H.I. (HEIGHT OF INSTRUMENT) WAS
MEASURED FROM BENCHMARK "JOE"
(BM JOE) TO SCOPE.

* TOP OF BATTUTE N^o 12



RED "X" PAINTED ON
ROCK FORMATION, ASSUMED
DATUM ELEV. = 0, WE ARBITRARILY
NAMED THIS BM "JOE"

BEGIN JUNE 1
CONTINUE _____

GLORIA HOWELL
DEENA BERG

CONDITIONS:

EQUIPMENT:

OBJECTIVES:

- ① CHECK POSITIONS AND ELEVATIONS OF VARIOUS WALLS LOCATED IN PREVIOUS SEASONS
- A. SETTING A NEW TEMPORARY STAKE FROM WHICH WE WILL SHOOT THE WALLS (ELEVATIONS AT TOPS, STADIA DISTANCES AND \angle FROM N)

~~BM~~ BM JOE

STA BSA HI FS(6) ELEV.
 DATUM A .22 .22 2.2 - 0. * UNTIL GIVEN

RIDGE (1/2 WAY) 2.2 .125 .095 .095
 B' .555 -.335 +3.35

C' .915 -.695 -.695

D' 1.0725 -0.8525 -8525

E' SEE P. 13 FOR ELEV. *TURNED + PLUNGED TWICE

F' 2.075 -1.855

G' 2.745 -2.525

H' 3.440 -3.22

I' SEE P. 13 FOR ELEV.

-RIDGE
 -1.5FT.

JUNE 2, 1981

PIZZICA

5.

WARM, SLIGHT BREEZE, SUNNY
7:30 A.M.

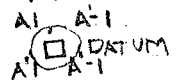
GLORIA HOWELL
DEENA BERG

TRANSIT, TRIPOD, STAKES, HAMMER
10 + 30 M TAPES, STADIA ROD.

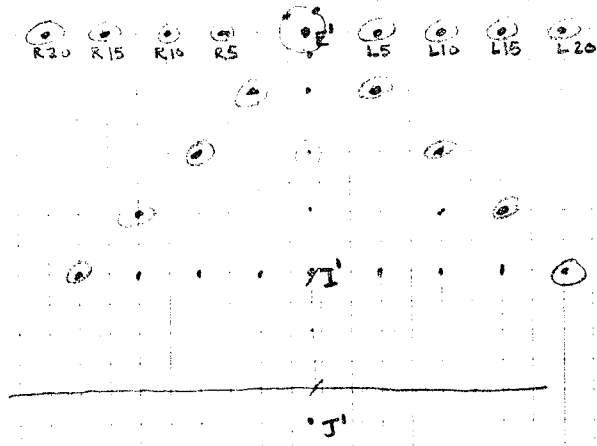
OBJECTIVES: SHOOT ELEVATIONS FOR CONTOUR MAPPING
OF HILL ABOVE PREVIOUS AND CURRENT
WORK SITE

PROCEDURE: SET UP OVER DATUM, DETERMINE
MAGNETIC N. SET PIN 20 METERS
DUE SOUTH.
MOVE TRANSIT OVER NEW STAKE
THEN SHOOT BS TO DATUM, FSs
TO SET NEW STAKES. SET SIDE
STAKES AT NEW STATIONS. SHOOT ELEVATIONS

ALL POINTS RT.



ALL PT. LEFT



⊙ ELEVATIONS SHOT 6/2/81

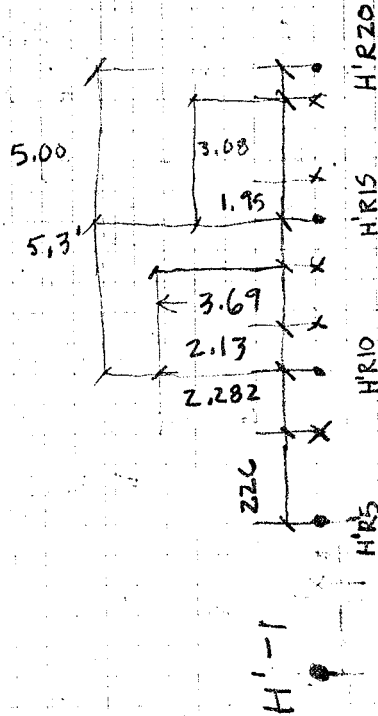
*NOT TO SCALE

<u>STA.</u>	<u>BS.</u>	<u>H.I.</u>	<u>F.S.</u>	<u>L</u>	<u>STAD.</u>	<u>ELEV.</u>	<u>DIST.</u>
H'L 5		2.2	3415	17°53'20"	3495 3.330	-3.195	16.5M
H'L 10			3.405	31°26'20"	3.50 3.305	-3.185	19.5M
H'L 15			3.50	4°34'00"	3.610 3.390		22M
H'L 20			3.625	47°51'00"	3.760 3.490	-3.28	27M
H'R 5			3.385	18°51'00"	3.460 3.310	-3.165	15M
H'R 10			2.445	36°36'00"	2.530 2.360	-2.225	17M
H'R 15			3.055	48°36'00"	3.155 2.960	-2.835	19.5M
H'R 20			3.150	59°42'00"	3.260 3.030	-2.93	23M
H'R 5			3.300	56°05'00"	3.410 3.200	-3.08	21M
H'R 4			3.350	53°43'00"	3.455 3.25	-3.13	20.5M
H'R 3			2.515	46°56'00"	2.610 2.420	-2.295	19.00M
H'R 2			2.690	42°02'20"	2.780 2.600	-2.47	18.00M
H'R 1			3.270	27°30'00"	3.350 3.195	-3.05	15.50M

L DECLINATION 00°17'00" R

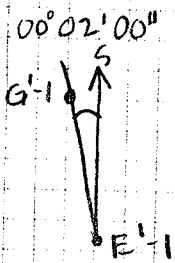
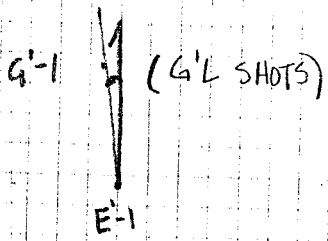


L	STAD.	ELEV.	DIST.
'53'20"	3495 3.330	-3.195	16.5M
'26'20"	3.50 3.305	-3.185	19.5M
'34'00"	3.610 3.390		22M
'51'00"	3.760 3.490	-3.28	27M
51'00"	3.460	-3.165	15M
36'00"	3.310 2.530	-2.225	17M
36'00"	2.360 3.155	-2.835	19.5M
42'00"	2.960 3.260 3.030	-2.93	23M
05'00"	3.410	-3.08	21M
32'00"	3.200 3.455 3.25	-3.13	20.5M
3000	2.410	-2.295	19.00M
62'28"	2.420 2.780	-2.47	18.00M
30'00"	2.600 3.350 3.195	-3.05	15.50M



STA.	BS.	I.I.	FS.	STADIA	L	ELEVATION
G'L5	.22	.22	28175	T 27700 -B 27600	25° 29' 40"	-2.5975
G'L10			262	(100) = 9.50 M T 270 -B 270	41° 28' 20"	-2.4000
G'L15			28250	(100) = 20 M T 292 -B 273	51° 14' 40"	-2.605
G'L20			28450	(100) = 19 M T 2950 -B 27350	59° 30' 20"	-2.625
JUNE 3, 1981						
G'R5	.24	.24	2630	T 25825 -B 2375	27° 43' 20" ?	23 -2.39 24
G'R10			2600	T 2130 -B 1995	=2.075 M 48° 22' 00"	-2.36
G'R15			2575	T 2660 -B 2490	=13.50 61° 00' 00"	-2.335
G'R20			2640	T 2745 -B 25325	=17.00 M 68° 55' 00"	-2.40
G'R1			2640	2700 25825	=21.25 M 39° 15'	-2.40

DECLINATION, 00° 15' 00"



G'R2 25275 2615 2450 60° 00' 20"

ELEVATION

- 0 -

40" -2.5975

1
20" -2.4000

10" -2.605

10" -2.625

20" 23 -2.39
24

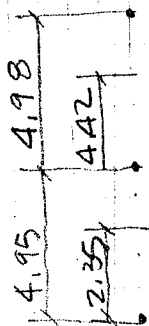
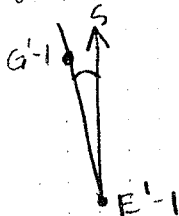
100" -2.36

10" -2.335

1
10" -2.40

1
-2.40

1
00°02'00"



0
G'-1

20"

JUNE

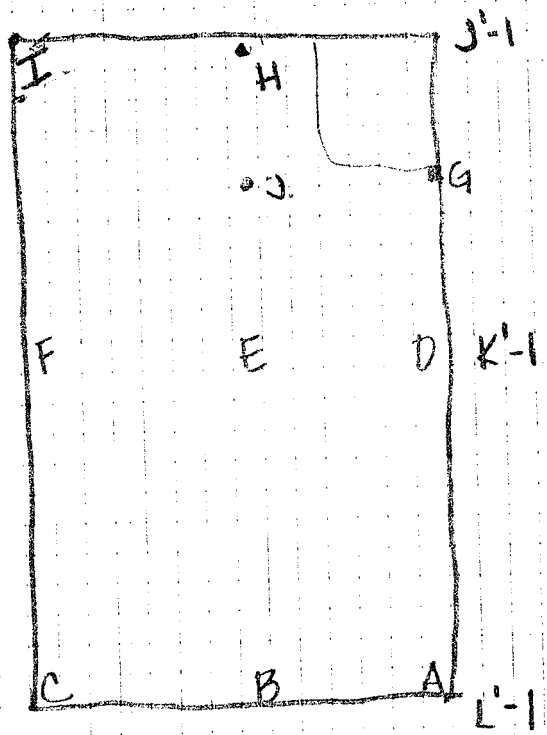
	BS.	H.I.	FS	ELEV
BM A		.79	2265	-0- -1.475
B			2275	-1.485
C			2290	-1.5
D			2255	-1.465
E			2290	-1.5
F			2290	-1.5
G			2170	-1.38
J			2280	-1.49
I			1980	-1.19
H			2045	-1.255

LEVEL

JUNE 2, 1981 - END OF WORK DAY
(BATTUTE 12 FINISHED?)

LEVEL TRIPOD, STADIA ROD
SQUARE LEVELS

WEST EXTENSION OF N/S TRENCH



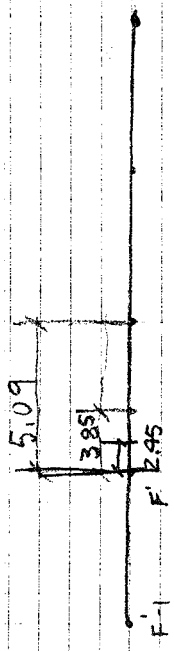
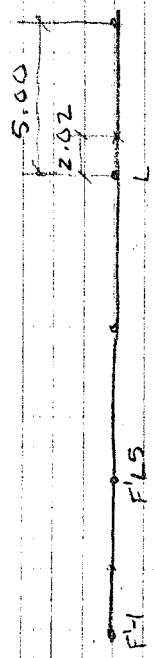
STA.	BS	HI	FS	STADIA	L	ELEV.
F'L5	.24	.24	2710	2870 2750	25° 15' 00"	-0- -2.51
F'L10			26625	2735 2590	42° 55' 00"	-2.4225
F'L15			2760	2855 2665	53° 10' 00"	-2.52
F'L20			1580	1695 14625	59° 43' 00"	-1.34
F'L1			2740	28425 26375	55° 52' 00"	-2.50
F'R5			20525	2085 2020 =6.5M	51° 00' 00"	-1.8125
F'R10			15475	1600 1495 =10.5M	72° 40' 00"	-1.3075
F'R15			1580	1655 1505 =15.00M	81° 35' 00"	-1.340
F'R20			1770	1870 1675 =19.5M	86° 25' 00"	-1.530
F'R1			1860	1900 1820 =8.00M	64° 43' 00"	-1.620
F'R2			2220	22675 21750 =9.25M	67° 03' 00"	-1.980
H.P.			1110	1175 1045 =13.00M	67° 40' 00"	-0.87

JUNE 3, 1981

9.

7:30 AM WARM, SUNNY

CONTINUATION OF HILL ELEVATION SHOOTING.
(FROM P. 7)

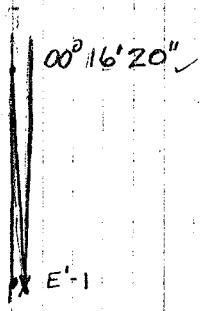


F-1

F-15

F-10

X H. PT.

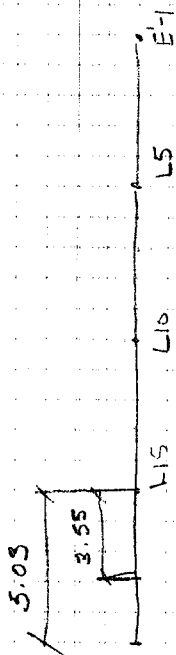


STA.	BS/HT	FS	ELEV.	STADIA	DISTANCE
E'LS	24	1550	-1.31	T 15825 B 15325	= 5.0 M.
E'10		1.750	-1.51	T 1805 B 1.705	= 10.0 M.
E'15		2.08	-1.84	T 2155 B 2.005	= 15.0 M.
E'20		2.22	-1.90	T 2320 B 2.120	= 20.0 M.
E'1		2.44	-2.22		

E'K5		15925	-1.3525	1620 1570	= 5.0 M
E'K10		14500	-1.2100	1525 1425	= 10.0 M
E'K15		15450	-1.3050	16175 14675	= 15.0 M
E'K20		18275	-1.5875	19300 17300	= 20.0 M

JUNE 3, 1901

10.0

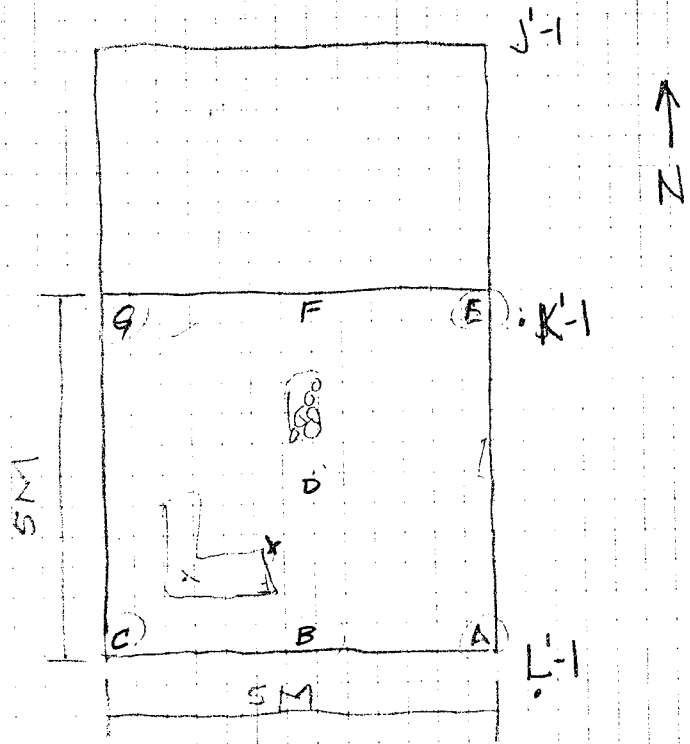


STA	HI	FS	ELEV.
A	.65	2285	-1.635
B		2315	-1.665
C		2300	-1.650
D			
E		2260	-1.610
F			
G		2290	-1.640
X		2295	-1.645

JUNE 3, 1981

TRENCH ELEVATIONS

SHOT WITH LEVEL



STA	BS	HI.	FS	STADIA	∠	ELEV.
D'L5	.24 (OVER E.L.)	.24	12775	13725 <u>12950</u> 7.75M	47°06'00"	-1.0375
D'L10			13025	1455 <u>1345</u> 11.0M	66°38'00"	-1.0625
D'L15			1475	1550 <u>1395</u> 15.5M	74°53'00"	-1.2350
D'L20			1510	1610 <u>1410</u> 20.0M	79°32'00"	-1.2700
D'R5		0.98		09175 <u>08400</u> 7.75	39°52'00"	-0.64
D'R10		0.900		0960 <u>0840</u> 12.0M	55°20'00"	-0.66
D'R15			1000	1080 <u>0915</u> 16.5M	62°26'00"	-0.76
D'R20			1305	1410 <u>1195</u> 21.5M	66°25'00"	-1.065
D'R1 (BET. E.L. & E.RS)			12025	1240 <u>1160</u> 8.0M	36°55'00"	-0.9625

CONTINUATION FROM P. 10

STA
(F'-1) OVER
F'-1

BS	HI	FS
.795	-1.06	.1925

STADIA

ANGLE	ELEV.
0°00'00"	-1.855
	-1.2525

I'L5

-1.06 2770

2830 26°00'00" -3.83
2715
= 11.5M

I'L10

2795

2870 43°14'00" -3.855
2725

I'L1

2805

2880 14.5M
45°05'00" -3.865
2730 15.00M

I'-1 ✓

.135 -1.1175 2910
(16 E'-1, -1.2525)

2860 -4.025

I'R5 ✓

2555

2820 = 10M
26125 25°55'00" -3.675
25000
= 11.25M

~~I'R10~~

I'R15 ✓

3390

3480 54°39'40" -4.505
3295
= 18.5M

~~I'R20~~

I'R1 (2.73M)
(FILL BEG.)

3075

31275 14°51'00" -4.1925
31250
= 0.25M

I'R2
(FILL END)

JUNE 3, 1981

13.

SET UP OVER PT. G-1 TO SHOOT I-1 SIDE
SHOTS PLUS BANK ELEVATION.

68CM FROM I'10 TO I'41

STA	BS	HI	ES	STADIA	∠	ELEV.
Ω 1	.795	-1.06	3565	3630 3500		-1.855 -4.625
				=13.0M		
Ω L5			3425	3495 3.355	19°50'00"	-4.985
				14M		
Ω L10			3245	3330 3.170	37°47'20"	-4.305
				16M		
Ω L1			3285	3375 3.200	40°46'00"	-4.345
				17.5M		
<hr/>						
Ω R5V	.135	-1.175	3740	38050 36675	20°35'00"	-4.855
	(AT E'72=-1.2525)			=13.75M		(-4.0625)
Ω R10						
Ω R15V			35975	38900	50°03'20"	-5.105
				?		(-4.311)
Ω R20						
Ω R1V			3490	3545 3415	12°19'40"	-4.5975
(FILL BEGINING)				=13.0M		(-3.1575)
Ω R2						
(FILL END)						

JUNE 3, 1981

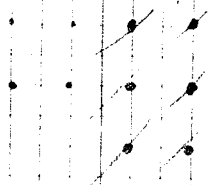
14.

* Ω IS THE EAST/WEST "ROW" BETWEEN ROW "I" AND
ROW "J", INDICATING THE CUT MADE BY THE
BULLDOZER IN A PREVIOUS SEASON.

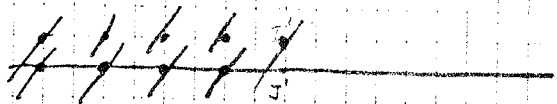
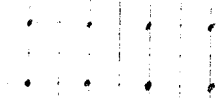
SET UP OVER "G"

JUNE 4, 1981

NOT IMPORTANT - JUST A REFERENCE
FOR WHAT WE HAVE LEFT
TO SHOOT AT THIS TIME



N
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O



(X)

JUNE 4, 1981

15

STA	BS	HI	FS	STADIA	∠	ELEV.
D-1 C'R 1	.45	.45	1.225	1.150 10.95	17°37'05"	-0.6725 -0.6725 =5.5M
C'R 5			.7250	.7650 .6875	38°34'20"	-0.275 =7.75M
C' 10			.775	.8375 .7150	53°40'00"	-0.325 =12.25
B' L 1			.9650	1.0150 .9150	4°06'20"	-0.515 =10M
B' R 5			.530	.595 .470	22°24'00"	-0.08 =12.5M
B' R 10			.600	.680 .520	36°13'00"	-0.15 =16M
A' L 1			0.595	0.670 0.520	10°18'00"	-0.145 =15.00M
A' R 5			0.39	0.520 0.360	18°19'00"	+0.6 16.00M
A' R 10			0.495	0.590 0.400	31°12'00"	-0.045 0.19M

JUNE 4, 1981

16

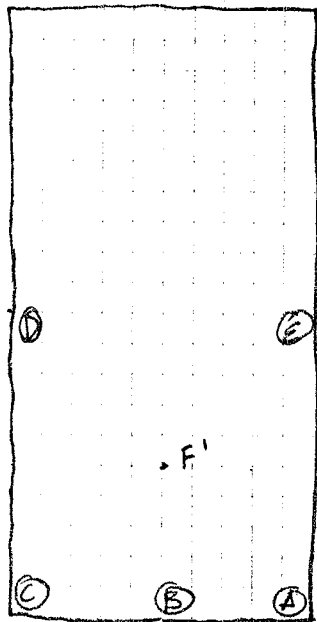
SET UP OVER STAKE "D-1"

CONTINUATION OF HILLTOP PLOTTING

STA	HI	FS	ELEV
A	.69 .65	2.500	-1.85
B		2.510	-1.86
C		2.5075	-1.8575
D		2.365	-1.715
E		2.440	-1.79
F		2.5175	-1.8675

JUNE 4
(FROM JUNE 3) TRENCH ELEVATIONS

17.



BATTUTE 14 A

STA

H.I.

F.S.

ELEV.

.69

A

2.6350

-1.945

B

2.6600

-1.970

C

2.700

-2.010

H.I.

.72

D

E

2.4625

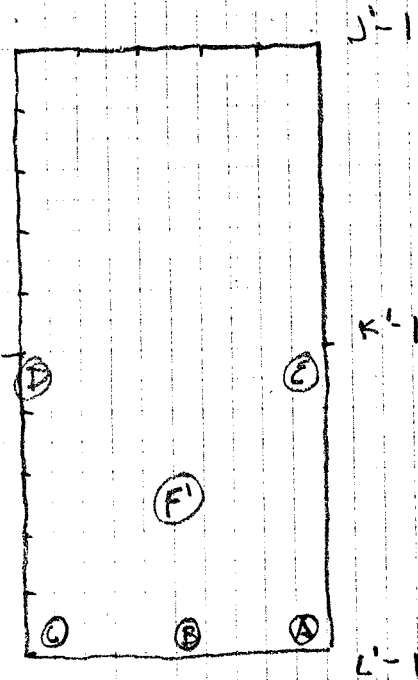
-1.725

F

JUNE 4, 1981

18.

TRENCH ELEVATIONS



BATTUTE
15 A

STA	(+BS)	HI	(-FS)	ELEV	L
H	0.3975	-2.8225		-3.22	0°00'00"

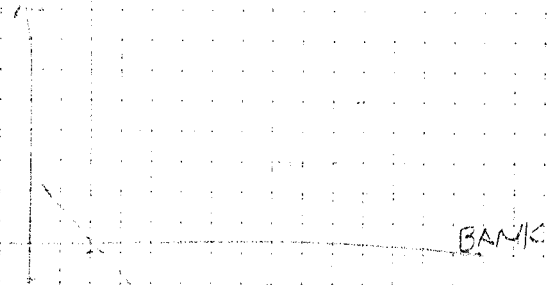
BM JOE

39325 -6.755 N 143° 45' 40" E

STATION 40325 4.025
3840

18.5M
17.25

N



BANK

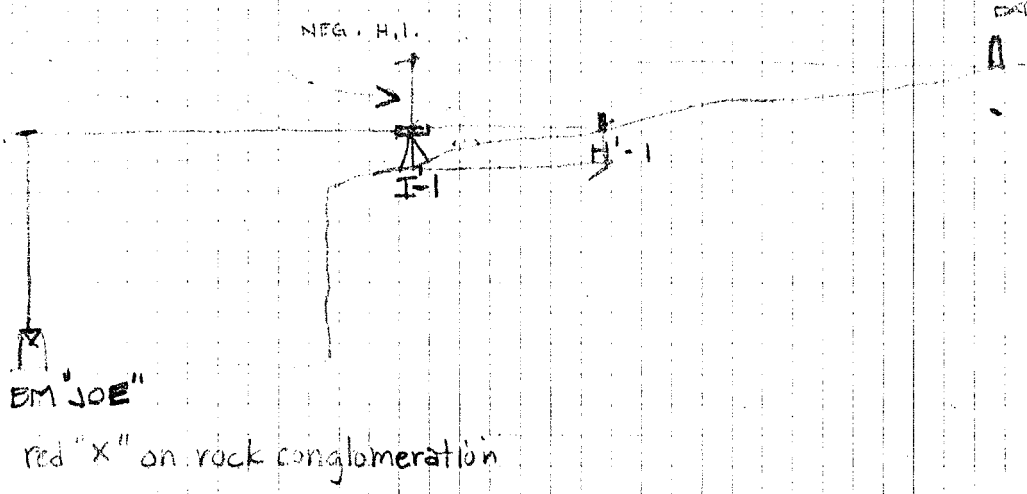
□

JUNE 4, 1981

TRANSIT, TRIPOD, ROD

OBJECTIVE: DETERMINE ELEVATION OF BM JOE IN RELATION TO DATUM A.

SHOT TO H-1, TURNED L TO THE RIGHT TO BM JOE. NO VERTICAL LS NEEDED IN THIS CASE; ALL SHOTS WERE LEVEL SHOTS.



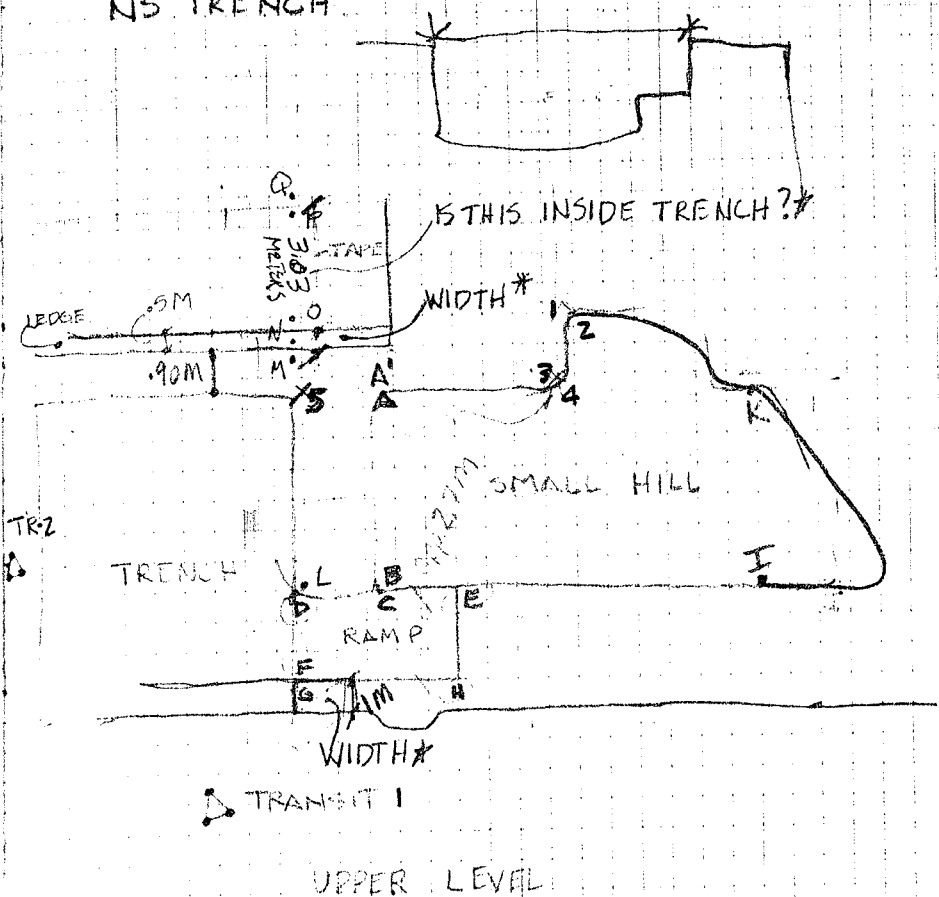
STA	BS	I.L	FS	STADIA	∠	ELEV.
A	.3975	-2.8225	3380	3440 3310 =13.M	18°23'00"	-6.2025
B	.3975	-2.8225	2700	2740 2660 =8.M	24°43'00"	-5.5225
Bm	1.1575	-5.5975	3380	3475 3440	137°35'00" W	-6.755
C	1.1575		1125	1200 1045 =15.5M	70°10'00" W	-6.7225
D			2230	2300 2165 =13.5M	67°16'00" W	-7.8275
E			945	1035 855 =18.M	70°44'20" W	-6.5425
F			1910	1985 1835 =15.M	60°17'00" W	-7.5075
G			.885	960 805 =15.5M	59°13'00" W	-6.4825
H			1060	1150 0970 =18.M	65°34'00" W	-6.6575
I	.3975	-2.8225	3355	3470 3235 =23.5M	75°16'00"	-6.1775
A'			1510	1695 1530 =16.5M	92°12'00" W	-7.1075
K	.3975	-2.8225	3530	3640 3470	61°02'00"	-6.3525

JUNE 4, 1981

TRANSIT, TRIPOD, ROD

SHOOTING BEGAN ON HILL OVER I-1, WITH SET-UP FROM PROCEDURE ON P. 19. WE THEN MOVED THE TRANSIT TO THE LOWER LEVEL AND FINISHED SHOOTING LEVELS AND ANGLES.

WE ARE SHOOTING THE BOTTOM SMALL HILL WEST OF THE WESTERN EXTENSION OF THE NS TRENCH

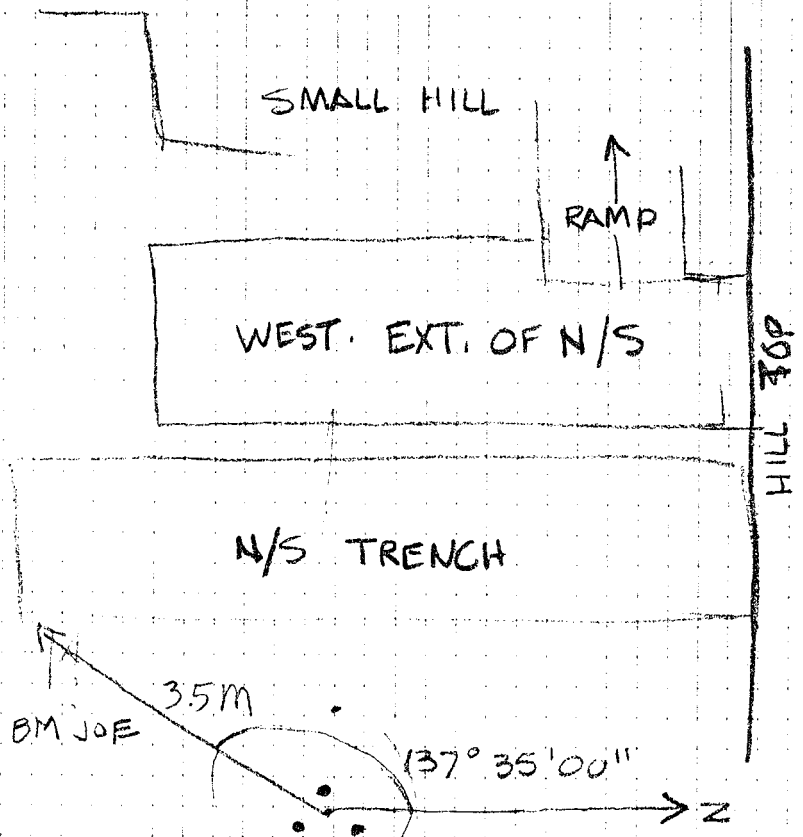


STA	BS	HI	F.S.	STADIA	L	ELEV.
1		-5.5975	2.120	2.255 1.980	108° 23' 00"	-7.7175
				= 27.5M		
2			1.715	1.855 1.570	107° 00' 00"	-7.3125
				= 28.5M		
3			1.575	1.700 1.450	90° 18' 40"	-7.1725
				= 25M		
4			.65	.775 .525	87° 57' 00"	-6.2475
				= 25M		
5			1.6625	1.730 1.5975	95° 27' 0"	-7.26
				= 13.25M		
	.67	-6.085				-6.755
L			.8675			-6.9525
M			1.2525			-7.3375
N			2.0450			-8.13
O			2.4025			-8.4875
P			2.255			-8.34
Q			1.740			-7.825

JUNE 4, 1981

CONTINUATION

-3.6175 BS
NOT HI ?



SEE P. 20, FOR ELEVATION POSITIONS

STA.

H. I.

F. S.

ELEV.

.71

A.

2.715

- 2.005

B.

2.740

- 2.03

C.

2.67

- 1.96

D.

2.38

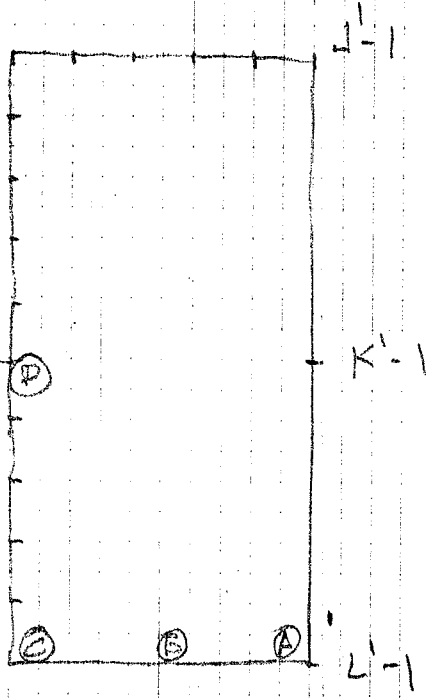
- 1.67

JUNE 4

LEVEL, TRIPOD, ROD

WESTERN EXT N/S TRENCH

BATTUTA 16 A'
LEVELS



STA	B. S.	N. I.	F. S.	STA	L	ELEV.
BM	.11	-6.645		.1675	N48°45'00"W	-6.755
	(BASED ON ACTUAL BM ELEV.)			.0525		
A			1.770	1.7175	N70°20'00"E	-8.415
				1.745		1.66
B			1.8725	1.9075	N84°56'00"E	-8.5175
				1.8375		
C			1.8425	1.8825	N77°20'48"E	-8.4875
				1.8025		
D			1.1925	1.230	N68°51'00"E	-7.8375
				1.160		
E			2.0625	2.095	N72°51'00"E	-8.7075
				2.030		
F			1.1025	1.1325	N63°57'00"E	-7.7475
				1.0700		
G			2.1625	2.195	N68°46'00"E	-8.8075
				2.1275		
I			2.0525			-8.6975
2			1.9956			-8.640
3			2.260			-8.905
4			2.420			-9.065

JUNE 5,

CONDITIONS: COOL, CLOUDY, HUMID
A.M.

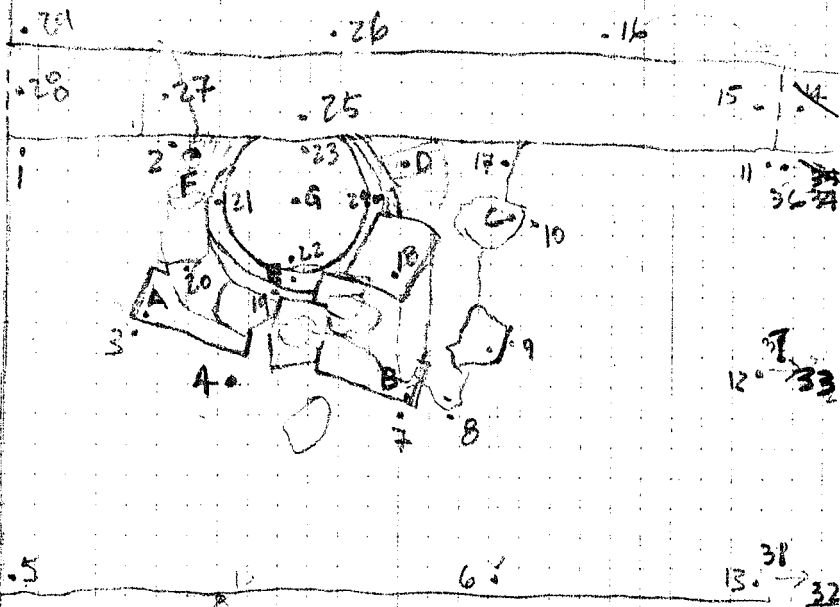
EQUIPMENT: TRANSIT, TRIPOD, ROD

SET UP AT "TR1", SIGHT B.S. TO B.M. "JOE"

WE ARE SHOOTING ELEVATIONS, ANGLES, AND STADIA DISTANCES OF THE WELLHEAD BEFORE THIS SEASON'S WORK BEGINS.

X ←
B.M.
"JOE"

N ↑



TR1

X

X

32

STA.	H.I.	F.S.	ELEVATION
5	-6.645	2.2175	-8.8625
6		2.2650	-8.91
7		2.320	-8.965
8		2.390	-9.035
9		2.4250	-9.071 (-9.07)
10		2.310	-8.955
11		2.330	-8.975
12		2.460	-9.105
13		2.2850	-8.93
14			
15		.61	-7.255
16		.9025	-7.5475

JUNE 5, 1981

A.M.

24.

Pizzica

Summer

1981

Survey

Field Notes

Book

STA	HI	FS	ELFV.
17	-6.645	2.1775	-8.8225
18		1.285	-7.93
19		1.740	-8.385
20		1.42	-8.065
21		2.000	-8.645
22		2.275	-8.92
23		1.9125	-8.5575
24		2.675	-9.32
25 T		.7825	-7.4275
26 B		1.975	-7.7425
27		1.795	-8.44
28 T		.6925	-7.3375
21 B		.9125	-7.5575

JUNE 5, 1981

AM.

25.

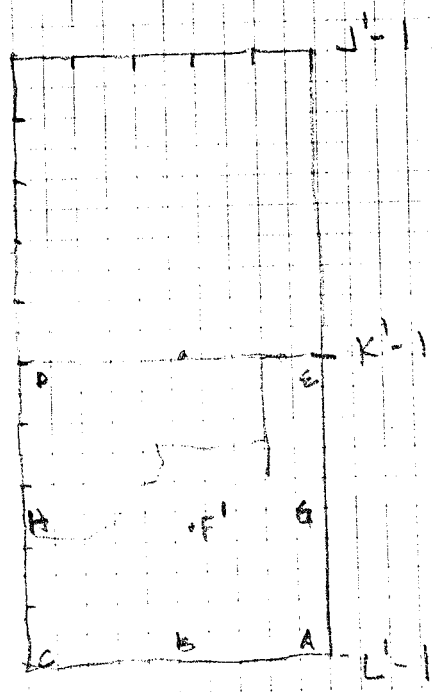
STA	H.I.	B.S.	F.S.	ELEV.
B.M.	.11	.11		
A.			2.1325	- 2.0225
B.			2.180	- 2.07
C.			2.0625	- 1.9525
D.			1.780	- 1.67
E.			1.940	- 1.83
F.			2.100	- 1.99
G.			2.1025	- 1.9925
H.			1.9725	- 1.8625

JUNE 5, 1981

WEST. EXT. N/S TRENCH

BATTUTA 16 A

TRANSIT, TRIPOD, ROD



<u>STA</u>	<u>H.I.</u>	<u>FS.</u>	<u>STADIA</u>	<u>ELEV.</u>
30	6.645			
31		246		-9.105
32		2350		-8.995
33		23525		-8.9975
34		2265		-8.91
35				
36		2350		-8.995
37		2465		-9.11

JUNE 5, 1981

A.M.

CONTINUED FROM P. 25

STA.	H.I.	<u>FS.</u>	<u>T.ELEV.</u>	<u>G.I.</u>	<u>FS'</u>	<u>R.ELEV.</u>
1	.11	1.775	-1.665	.38	1.395	-1.285
2		2.16	-2.05	.60	1.56	-1.45
3		2.25	-2.14	.59	1.66	-1.55
4						
5						

EV

JUNE 5, 1981

28.

285

A.M. - BY LATE A.M. WEATHER CONDITIONS HAD IMPROVED TO: WARM, SUNNY, BREEZY

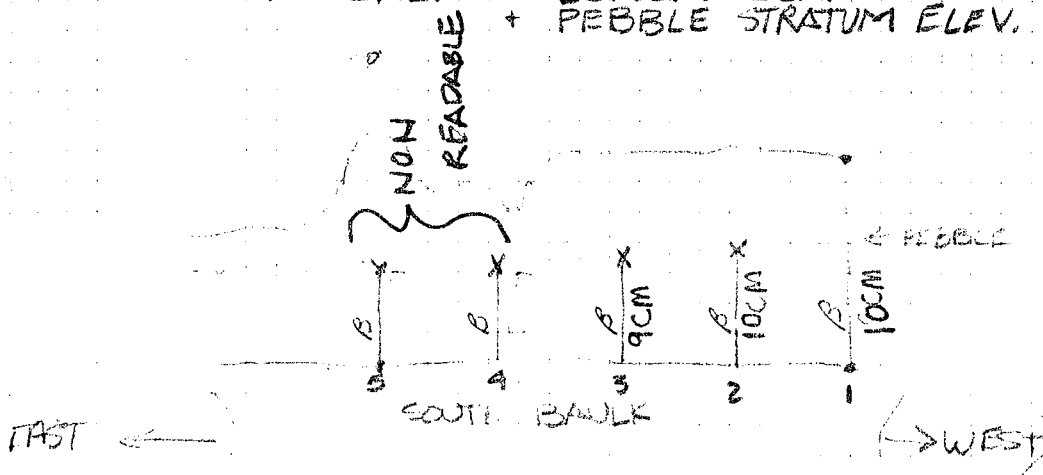
45

WE ARE SHOOTING PEBBLE CASCADE ELEVATIONS FOR DRAWING REFERENCE. THIS BALK WILL BE TAKEN DOWN JUNE 8 (MONDAY), IT IS ALREADY PARTIALLY GONE DUE TO WEATHERING FROM WATER.
 BM JOE = 0 ELEV.

55

WELL TRENCH

SOUTH BALK - BOTTOM ELEV.
 + PEBBLE STRATUM ELEV.



$$FS - \beta = FS'$$

HI - FS = TRENCH BOT. ELEV.

HI - FS' = PEBBLE STRATUM ELEV

~~ALL BY ALL~~

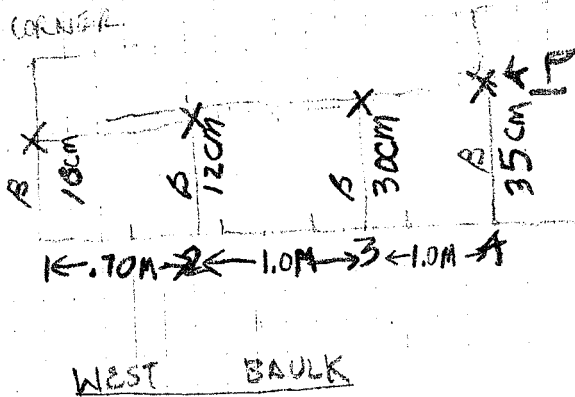
STA	H.I. .11	F.S.	T. ELEV.	- (B) (TOP)	F.S.	P. ELEV.
1.						
2.		1.795	-1.685	.52	1.275	-1.165
3.		1.760	-1.65	.78	.98	-.87
4.		2.175	-2.0075	1.01	1.1075	-.9975

JUNE 5, 1981

29

WELL TRENCH : LOCATING THE PEBBLE
STREAK

BM JOE = 0 ELEV.



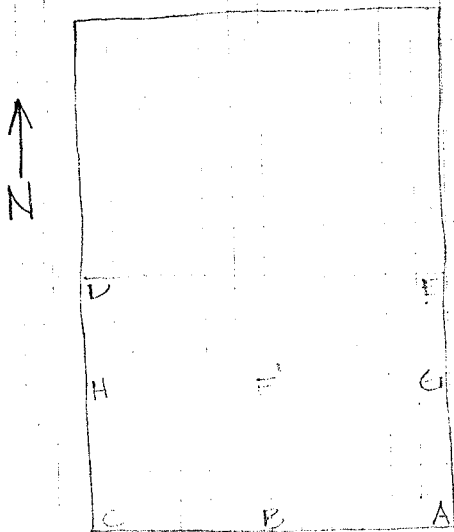
STA.	B.S.	H.I.	F.S.	LEN.
A		.67	2.785	-2.115
B			2.840	-2.17
C			2.825	-2.155
E			2.69	-2.02
F			2.82	-2.15
G			2.785	-2.115
H			2.675	-2.005
D		.59	2.50	-1.91

JUNE 5, 1981

TRENCH ELEV. - WESTERN EXT. N/S

BATTUTA # 17A.

LEVEL, TRIPOD, ROD



STA. BS HI FS ELEVATION β FS' ELEV. OF STRATUM

BM .885

1	2.03	1.00
2	2.0975	.955
3	1.9525	.82
4	2.180	.23
5	1.07	.13

$$HI = BS + ELEV.$$

$$ELEV = HI - FS$$

$$FS' = FS - \beta$$

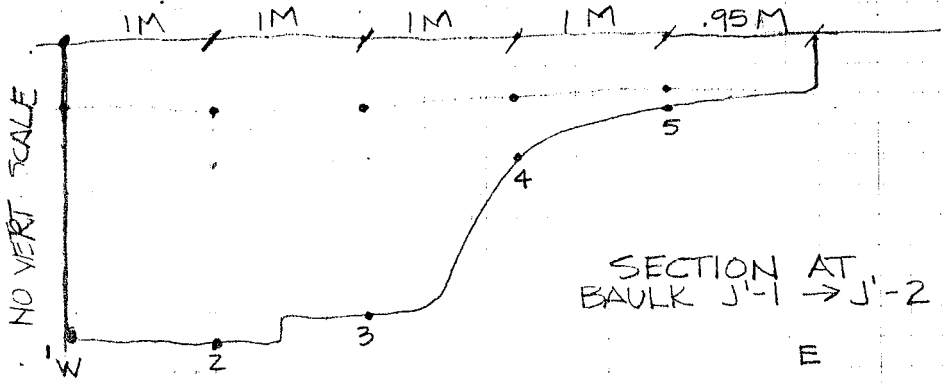
$$ELEV = HI - FS'$$

JUNE 6, 1981

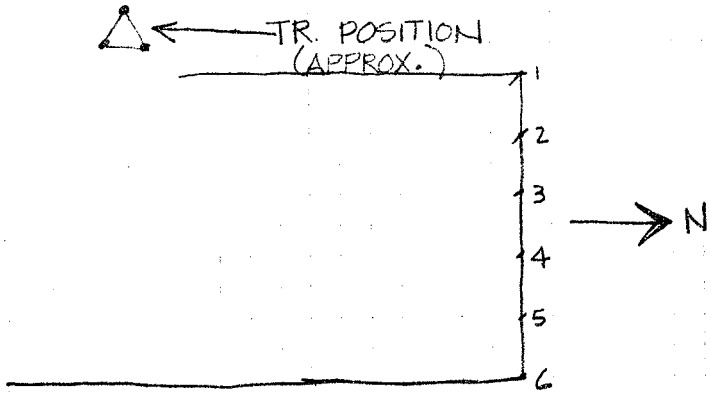
PARTLY CLOUDY, WARM, SLIGHT BREEZE
10:30 A.M.

TRANSIT, TRIPOD, ROD, TAPE

NORTH-SOUTH TRENCH, WEST BAULK



WE ARE CHECKING ELEVATIONS OF ONE STRATA TO COMPARE WITH ACCURACY OF SECTION DRAWING.



STA. BM	B.S.	I.I.	F.S.	FEL	(P)	K.S.	R. ELEV
Δ (BOSTON)	1.03	1.03	2.105				
			2.105				

ELEV = TO DATUM
 = 6.755
 HI = 5.725

-0-
 -1.075

B 1.46 - .43 (-.40)

C 2.02 - .99 (-1.00)

D 2.1075 D = -7.8825 - 1.0775 (-1.08)

E 2.3850 - 8.11 - 1.355 (-1.33)

A' 1.21 - .18 (-.14)

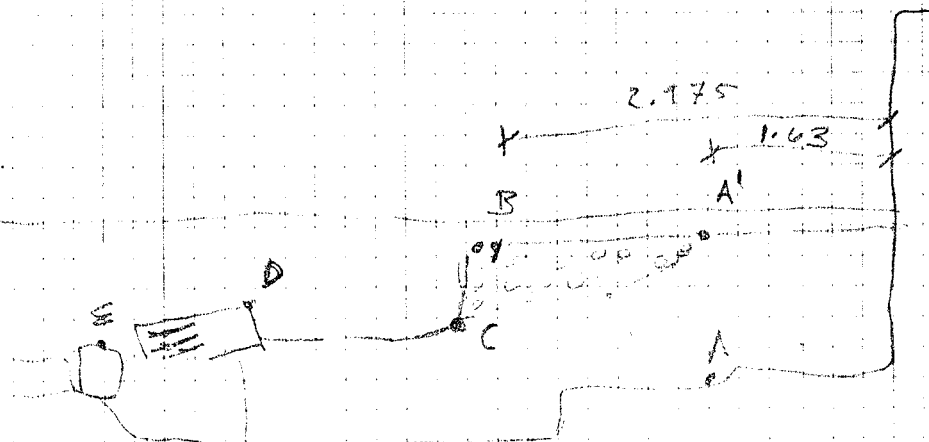
* () INDICATE PREVIOUS SEASON — SEE OBJECTIVES

JUNE 8, 1981

32.

CONDITIONS: SUNNY, BREEZY, COOL
7:30 A.M.

OBJECTIVES: SHOOT LEVELS IN N-S TRENCH,
WEST BAULK, COMPARE WITH
LEVELS SHOT IN PREVIOUS SEASON.
(FIZZICA - DEPOSITO DI CERAMICA E CAVA
D'ARGILLA" SONDAIO G)



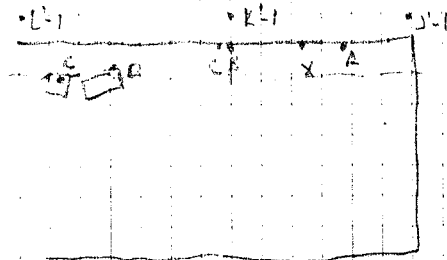
$$FS - R = FS'$$

$H_1 - FS =$ TRENCH BOTTOM ELEV.

$H_1 - FS' =$ PEBBLE STRATUM ELEV.

~~REMARKS~~

SECTION AT BAULK J'-1, K'-1, L'-1



STA	BS	HI	FS	ELEVATION
BM JOE	.77	.77	2.9825	0
				-2.2125
			3.070	-2.300

~~PREVIOUS~~
A
B

A
B

JUNE 8, 1981

33.

WELL TRENCH ELEVATIONS

3.30 PM, HOT, SUNNY

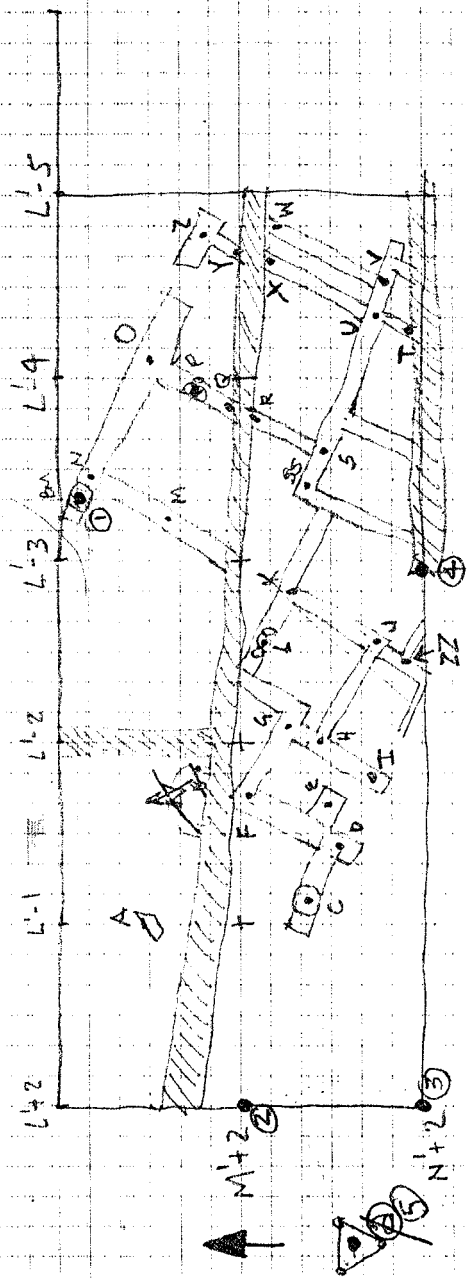


STA	BS	HI	FS	Z TURNED	STADIA	ELAY
BM	0225	-6.55		65°09'40"	0330	-6.775
A	E		1965	49°56'20"	2025 1965	-8.515
					0115	
B						
C			1870	79°35'00"	19225 18175	-3.42
					10.3M	
D			1625	83°26'40"	1705 1580	-3.1925
					12.5M	
E			1540	83°32'00"	1605 14725	-3.104
					13.25	
F			1470	72°32'00"	1540 1400	-3.102
					14M	
G			12525	76°25'00"	1330 1175	-7.8025
					15.5M	
H			19625	85°17'00"	2040 18875	-3.525
					15.1M	
I			1940	87°13'00"	2050 1870	-3.47
					18.1M	
J			16525	85°41'20"	1745 1565	-3.275
					18.1M	
K			10775	78°18'00"	1170 0980	-7.675
					19.1M	

JUNE 10, 1981

34,

9:00AM WARM, SUNNY



STA BS HI FS L STADIA ELEV.

L		1090	75° 43' 00" 43'	1175 <u>10025</u> 1002 17.25	-7.64
M		.735	69°37'00"	.8375 <u>.620</u> 21.75	-7.285 115
N		0225	66°10'20"	0.330 <u>0.115</u> 21.5	-6.775 0.005
O		.305	72°31'20"	.4325 <u>.125</u> 20.75	-6.855
P		.4425	74°49'20"	.5675 <u>.32</u> 24.75	-6.9925
Q		.7425	77°45'00"	.865 <u>.6125</u> 25.25	-7.2925 24.75
R		.91	80°08'20"	1.0275 <u>.790</u> 23.75	-7.46
S		1.155	83°01'00"	1.270 1.670 <u>1.040</u> 23.00	-7.705
TS		1.09	81° 36' 20"	1.20 <u>.9775</u>	-7.64
T		1.5525	90°17'00"	1.6325 <u>1.4250</u>	-8.1025
V		1.14	86°58'00"	1.270 <u>1.005</u> 26.50	-7.67

STA

F.S.

L

STADIA

ELEV.

35

88

1.3975 - 7.9475 - EL.

13.975

87° 32' 40"

15.450 / 28.5
12.600

V —

STA W B → HI FS L TURNED SPADIA FLEV

X	1.02	82° 4' 00"	1.1575 <u>.8825</u> 27.5
Y	.79	30° 10' 00"	.93 <u>.255</u> 27.5
Z	.49	76° 17' 40"	.6325 <u>.3475</u> 28.5
ZZ	1.63	84° 42' 00"	1.715 <u>1.545</u> 17.0

①		65 65° 10' 00"	0.370 0.115
②		45° 04' 00"	1.32 1.245
③		102° 08' 00"	1.6275 ? 1.5775?
④		92° 08' 00"	1.33 1.14

②	1.85	102 107° 26' 00"	2.0675 1.9025	16.5M
④		178° 26' 00"	1.935 1.885	10M
③	22.75	122° 09' 00"	23.695 21.85	18.25

21.5M

5.5M

5M

1.585

1.900M

ST

BS HI

STADIA

(LEFT)
L TURNED

②⑤

22.65
20.50

21.5M 114° 35' 00"

① (EM)

0.945

A
↑
N

STA

BS

H.I.

F.S.

ELEV.

A

~~.59~~

~~2.910~~

~~-2.32~~

B

~~2.955~~

~~-2.365~~

6-11-91
C

NEW .58

~~2.7950~~

D

~~2.750~~
~~2.640~~

E

F

STA

H.I.

F.S.

ELEV.

A

.58

2.845

-2.265

B

2.850

-2.27

C

2.800

-2.22

D

2.750

-2.17

E

2.6775

-2.0975

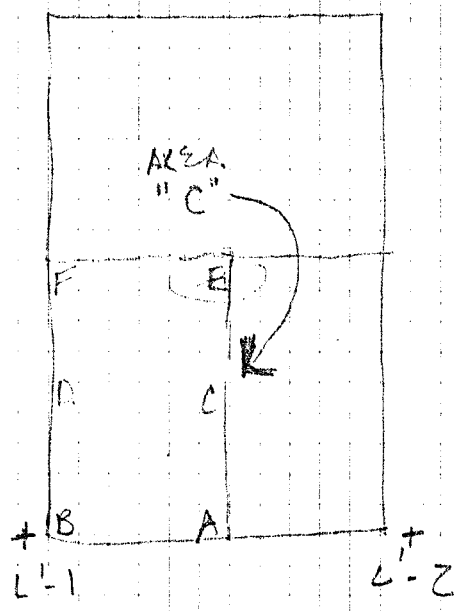
F

2.700

-2.12

JUNE 10, 1981

TRENCH ELEVATIONS
WEST EXT N/S
BATTUTA 1B C

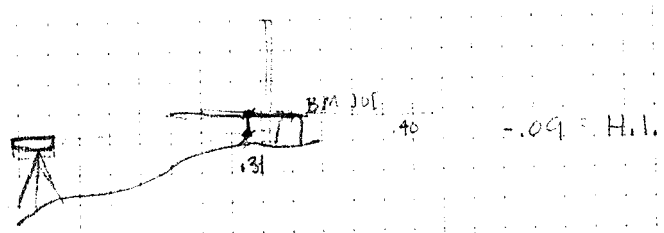
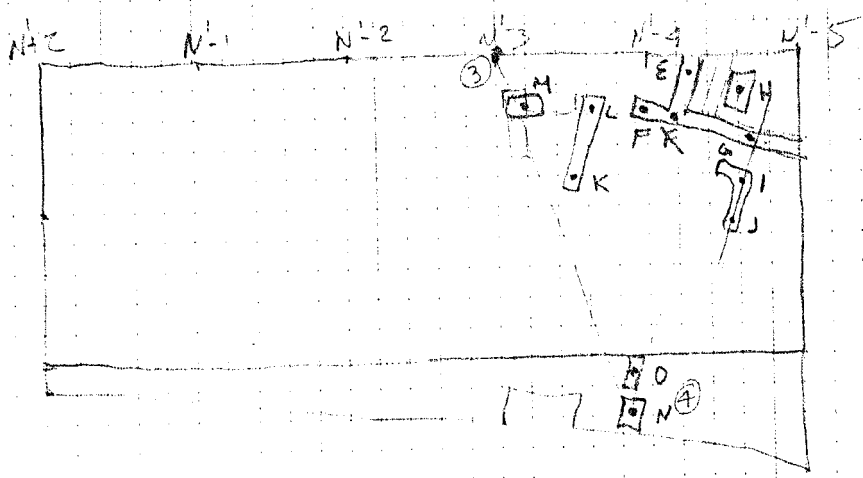
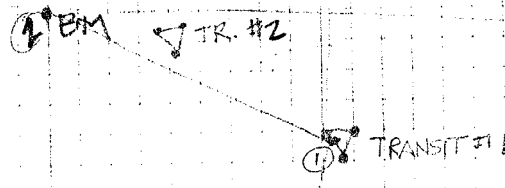
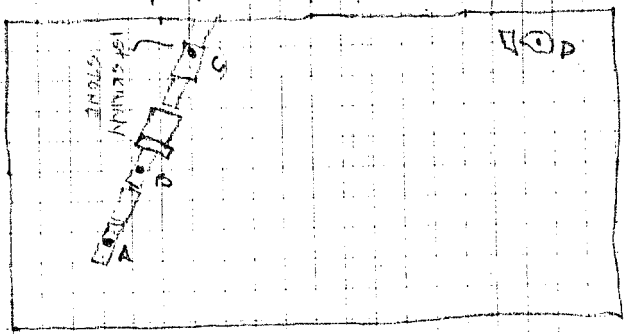


STA BM¹ (AT C) SIGHTING TO BM) BS .31 HI (-.09) FS Bm FL = 0 -6.845 TURNED STADIA ELEV. -6.755
44°00'00"

A	2190	N147°35'00"E	2225 <u>2135</u> 9.M	-2.27 -9.025
B	21625	N142°06'00"E	2205 <u>2120</u> 8.5M	-2.25 -9.0075
C	22525	N116°02'00"E	2285 <u>2210</u> 7.5	-2.34 -9.0975
D	2355	N96°16'00"E	2455 <u>22575</u> 19.75	-9.20
E	1435	N125°35'00"W	1455 <u>14175</u> 3.75	-8.28
(F)	1510	N124°31'40"W	1525 <u>1485</u> 4.M	-8.355
(G)	1675	N178°37'00"W	16925 <u>1655</u> 3.75	-8.52
H	14625	N139°02'00"W	1420 <u>1385</u> 3.5	-8.2475
(I)	1900	N175°45'00"W	1925 <u>1875</u> 5.M	-8.745
(J)	1995	N173°33'00"W	2025 <u>1965</u> 6.M	-8.84
(K)	1780	129°47'00"	1810 <u>1750</u> 6.M	-8.625

JUNE 11, 1981 7:30 AM SUNNY, WARM,

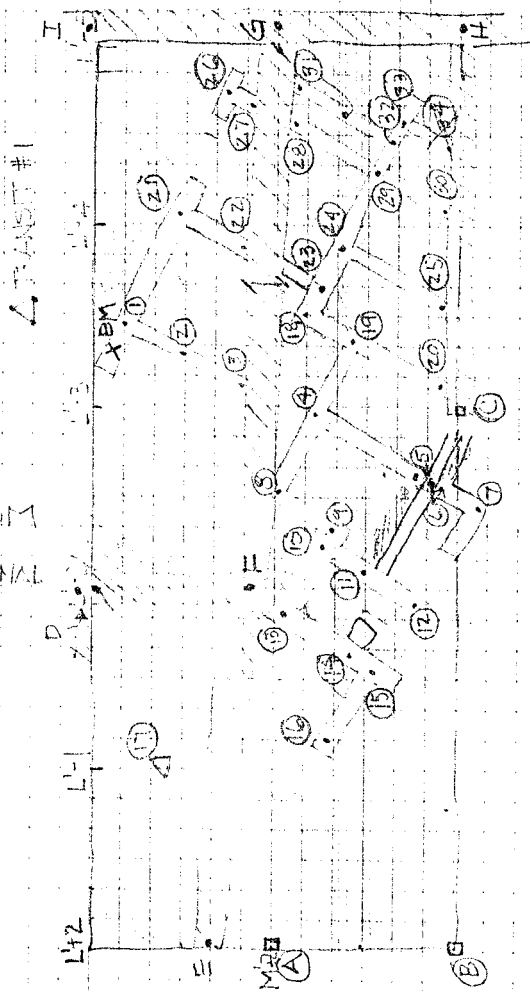
TRAMP
N-5



STA.	BS	HI	FS	Z TURNED	STADIA	ELEV.
L			1675	N 121° 57' 00" W	1709 <u>1650</u> 5.5 M	-8.52
M			1615	N 116° 10' 00" W	1645.50 <u>1505</u> 6.5 M	-8.46
O			1715	N 147° 22' 00" W	1775.25 <u>1652.5</u> 12. M	-8.56
ON ④			1950	N 149° 44' 00" W	2020 <u>1880</u> 14. M	-8.795

THIS SKETCH GOES WITH THE WORK ON THE FOLLOWING PAGES.

BOUNDARY: EM-A-B-C-BM
EAVLK INTERSECTIONS/CANAL



P

7 A

STA	BS. H.I.	F.S.	STADIA	TURNED (ALL LEFT FROM N)	FLEV.
BM	2.205.535		<u>12375</u> 12075 3M	136°11'00"	-6.755
Ⓐ		2270	<u>2300</u> 2175 19M	111°06'00"	-7.805
Ⓑ		2590	<u>2700</u> 2485 21.5M	129°42'40"	-8.125
Ⓒ		22075	<u>22675</u> 21475 12.M	164°19'00"	
H		2115	<u>22045</u> 2185 14.M	213°18'00"	
F		2175	<u>2220</u> 2135 9.5M	128°22'00"	
E		2135	<u>22045</u> 2125 18.M	106°09'00"	
G		14825	<u>1535</u> 1430 10.5M	226°57'00"	
D		1695	<u>1730</u> 1655 7.5M	121°55'00"	
X					
①		1220	<u>1235</u> 1205 3.M	148°14'00"	
②		17275	<u>1750</u> 1705 / 4.5M	153°37'00"	

JUNE 12, 1981

40.

9 AM WARM, SUNNY, BREEZY

TRANSIT, TRIPOD, STADIA ROD, TAPE

WE ARE RE-SHOOTING A PORTION OF THE SITE
WE ARE STILL CHECKING ALIGNMENTS +
ORIENTATIONS AND NOT SO MUCH ELEVATIONS.

— SEE MAP P. 37 —

STA	BS	H.I.	F.S.	STADIA	L. TURNED	ELEV.
③			1885	1915 1855 <u>6. M</u>	156° 17' 00"	
④			21225	2160 2080 <u>8. M</u>	157° 14' 40"	
⑤			23075	2360 2260 <u>10 M</u>	158° 03' 00"	
⑥			2595	26475 254 <u>10.75 M</u>	156° 11' 00"	
⑦			2695	2675 2575 <u>12. M</u>	157° 05' 50"	
⑧			28375	2885 2895 <u>8.5 M</u>	137° 37' 40"	
⑨			2210	22875 2190 <u>9.75 M</u>	(1220° 12' 00") ACT. 138° 12' 00"	
⑩			23275	2375 2475 <u>10 M</u>	137° 42' 00"	
⑪			29425	2975 2835 <u>11.25 M</u>	222° 20' 00" 133° 20' 00"	
⑫			29905	30575 297 <u>12.75</u>	144° 05' 7' 00"	
⑬			2475	2590 2420 <u>11.00</u>	129° 21' 00"	
⑭			26075	26125 154 <u>13. M</u>	136° 20' 00"	

STA	BS	H.I.	F.S	STADIA	TURNED	ELEV.
(15)			26425	27075 25775 <u>13. M</u>	136° 44' 00"	
(16)			2740	3015 2865 <u>15. M</u>	126° 57' 00"	
(17)			29525	3075 2375 <u>12.75</u>	104° 51' 00"	
(18)			19975	20375 19075 <u>8. M</u>	182° 11' 20"	
(19)			2150	2190 2110 <u>8. M</u>	181° 43' 00"	
(20)			2655	2655 11. M	175° 34' 40"	
(21)			13175	1340 1295 <u>4.5 M</u>	218° 13' 00"	
(22)			1735	1770 1705 <u>6.5 M</u>	199° 11' 00"	
(23)			2190	2235 2135 <u>8.5 M</u>	188° 33' 00"	
(24)			20225	2075 1935 <u>9. M</u>	191° 52' 00"	
(25)			27525	27575 26475 <u>11. M</u>	135° 53' 20"	
(26)			1555	15925 15125 <u>8. M</u>	211° 34' 00" 234°	

STA	BS	H.I.	FS	STADIA	Δ TURNED	ELEV.
(27)			1815	1860 1770 9.0M	221°57'00"	
(28)			20025	2050 19525 9.75M	214°16'00"	
(29)			2145	2200 2000 11.0M	205°05'00"	
(30)			253	2570 2010 12.0M	161°01'00" 199°01'00"	
(31)			22675	23225 22125 11.0M	211°52'00"	
(32)			2400	2400 2345 11.5M	208°36'00"	
(33)			24025	25225 24125 12.25M	211°41'00"	
(34)						

STA

H.I.
.65

F.S.

ELEV.

A

2.24

- 1.59

B

2.27

- 1.65

C

2.29

- 1.64

D

2.09

- 1.44

E

2.12

- 1.47

F

2.23

- 1.53

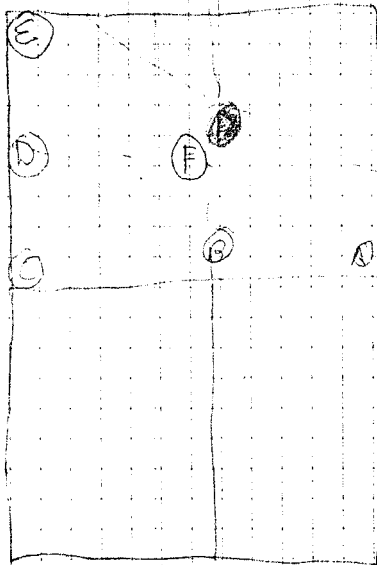
WEST TRENCH

6/12/81

44.

BATTUTA

13 B.
(FINISHED)

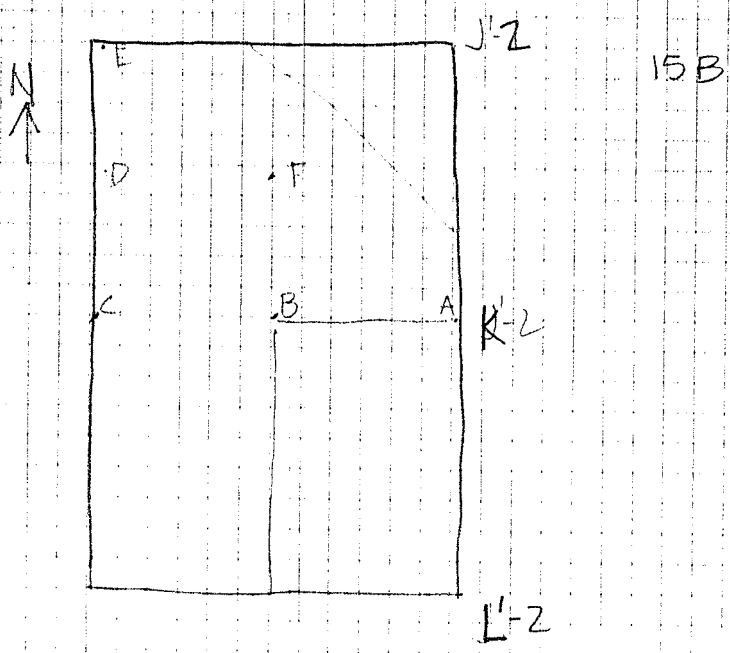


STA	H.I.	F.S.	ELEV.
E	.62	2440	-1.92
D		2355	-1.735
A		2465	-1.845
B		2158	-1.96
C		2160	-1.98
F		2475	-1.855

STA	H.I.	FS	ELEV.
A	.62	21305	-1.625
B		21405	-1.785
C		2143	-1.81
D		21335	-1.75 -1.715
X			

JUNE 12, 1931

45



FROM JUNE 12

BATTUTA 14B

STA

FS.

H. I.

ELEV.

0.62

A

2.705

-2.085

B

2.7275

-2.1075

C

2.565

-1.945

D

E

2.41

-1.99

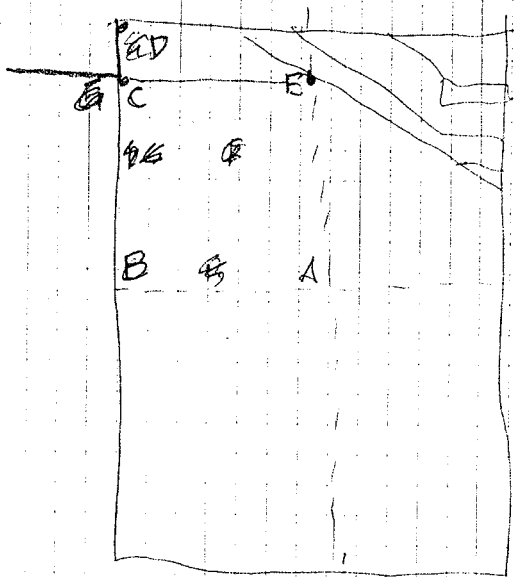
F

~~2.565~~

JUNE 15, 1981

46

WESTERN EXTENSION OF N/S TRENCH.
BATTUTA 16 D. ~~FINAL LEVELS~~



STA	H.I. = 62	F.S.	ELEV. (B.M. 10)	ELEV. (DAT. 0)
A		2.715	-2.095	-8.810 <small>-8.810 - 6.755</small>
B		2.760	-2.14	-8.85
C		2.805	-1.945	-8.7
D		2.885	-1.965	-8.72
<hr/>				
A	H.I. = 1.35	3.450	-2.10	-8.855
B		3.485	-2.135	-8.89
C		3.5725	-2.225	-8.98
D		3.640	-2.290	-9.045
E/B		3.490	-2.14	-8.895
F		3.440	-2.109	-8.845
G/C		3.270	-1.92	-8.675
H		3.155	-1.805	-8.56
I		3.140	-1.79	-8.545
J		3.160 (3.155)	-1.81 (-1.8075)	-8.565
K		3.295	-1.945	-8.7
L/D		3.325	-1.975	-8.73
M		3.16	-1.81	-8.565
N		3.28 (3.275)	-1.93 (-1.92)	-8.685
O		3.41	-2.06	-8.815
P/A		3.52	-2.17	-8.925
①		2.75	-1.4	-8.155
②		2.66	-1.31	-8.065
③		2.72	-1.37	-8.125
④		2.70	-1.35	-8.105

JUNE 15th, 1981

47.

THINGS TO DO: PIZZICA

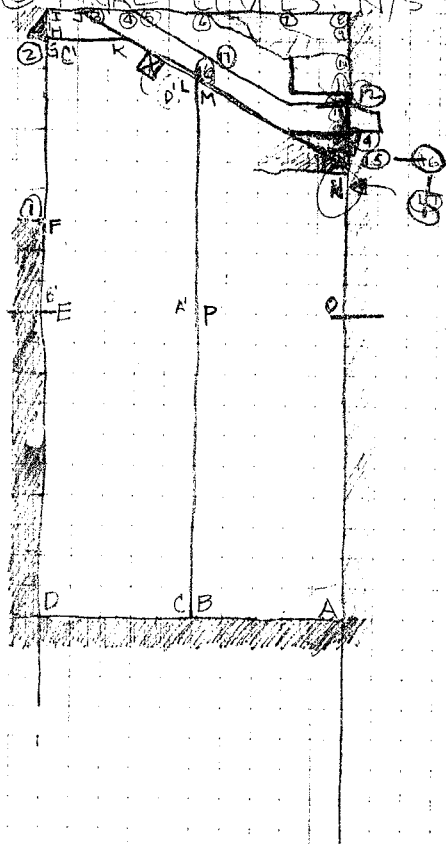
#1 ① W. TRENCH N/S EXT. N, S, E, W BAWLS

#2 ② TOP OF KILN ELEV/POSITIONS

#3 ③ STAKE NEW TRENCHES

#4 ④ WELL - BOTTOM ELEV.

#5 ⑤ FINAL LEVELS, N/S - WEST EXT.

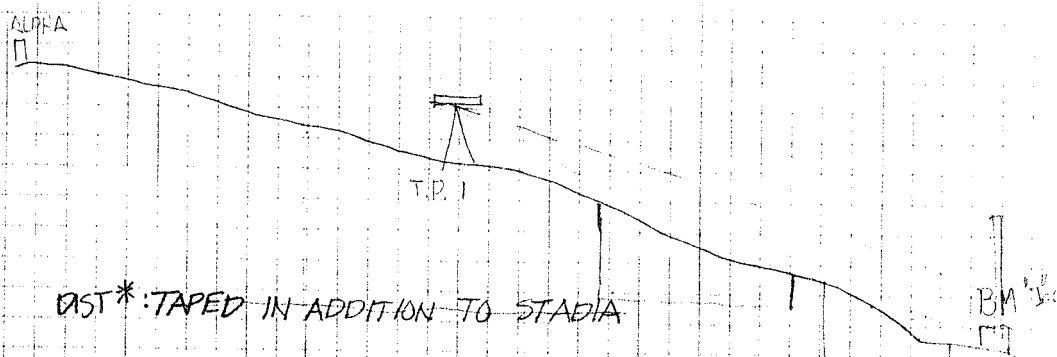


FINAL TRENCH
BATTUTA 17D
(FINAL)

STA	H.I.	FS	ELEV. (BM=0)	ELEV (DAT=0)
⑤		2.4425	-1.0925	-7.845
⑥		2.4025	-1.0525	-7.81
⑦				
⑧		1.320	0.030	-6.725
⑨		1.520	-0.17	-6.925
⑩		2.250	-0.90	-7.655
⑪		2.205	-0.855	-7.61
⑫		2.4325	-1.0825	-7.8375
⑬		2.740	-1.39	-8.145
⑭		2.9975	-1.6475	-8.4025
⑮		3.145	-1.795	-8.55
⑯		3.1625	-1.8125	-8.5675
⑰		3.270	-1.920	-8.675

STA	H.I.	BS	FS	LTURNED	STADIA	DIST*	ELEV.
ALPHA (117)			3.3	N162°45'E	3440		-0-
F-1					3165		
TP#1			3.05		3165		
F-1 (2)					2725		
D-1	2.35	4.75		45°55'00" 00°00'00"	551	.365	
					249	.105	
F-1	12.90			45°58'00"	1250		
TESTAMONIAL					1135		
TP#2				135°40' H 11°00' V			
BM							
2←							

ALPHA (35)
TP# 1
SM (F.S.)



DIST*: TAPED IN ADDITION TO STADIA

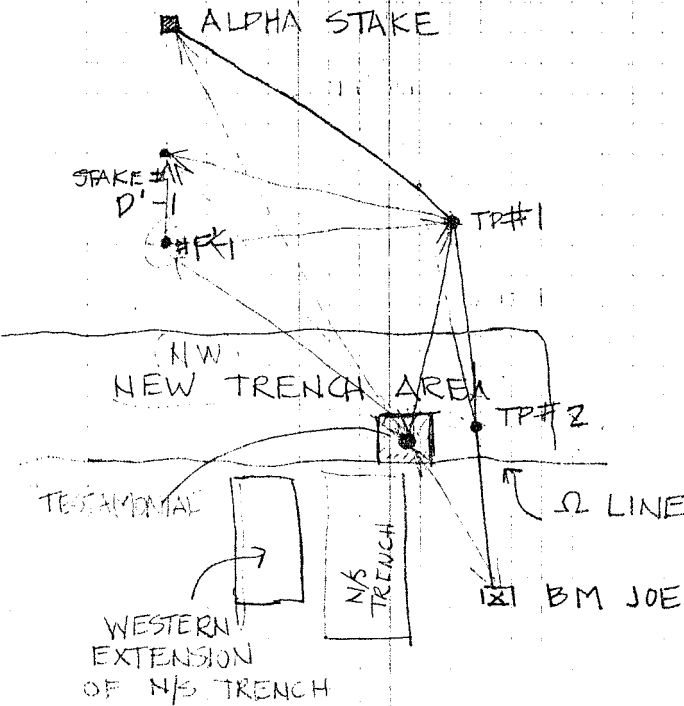
JUNE 16, 1981

49.

TRANSIT, TRIPOD, TAPE

WARM, SUNNY,

WE WILL SHOOT AN OPEN TRAVERSE FROM ALPHA DATUM TO BM JOE TO ESTABLISH AS ACCURATELY AS PERMISSIBLE (GIVEN CONDITIONS) THE RELATIVE POSITIONS OF THE TWO POINTS TO EACH OTHER.



- A → TP1
- TP1 → D'-1 -
- F'-1 -
- TEST. -
- FRZ
- F'-1 → TP1
- FRZ
- TEST.
- D'-1
- TEST. → & F'-1
- TP-1

STA	BS	HI	FS	ELEV. (TO BM)	ELEV. (TO DATUM)
BM	2.320	2.320			
1			1.22		
2			13.1		
3			12.675	1.0525	
4			0.875		
5			0.640	1.68	
6					
7			0.5625		
8			0.575	1.745	

JUNE 16, 1981

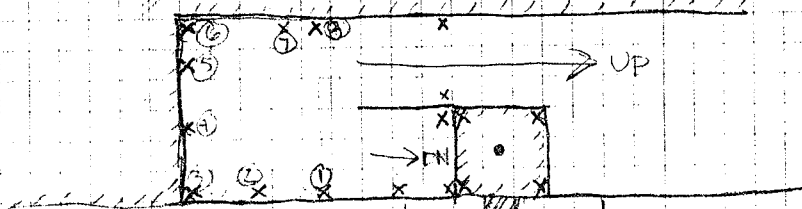
50

WE ARE STARTING THE NEW TRENCH, SO BEFORE THE TRENCH IS STAKED WE ARE GETTING ELEVATIONS OF THE FRESHLY CUT SECTION OF THE HILL AFTER THE WORKMEN HAVE CLEANED AND CLEARED OFF THE AREA.

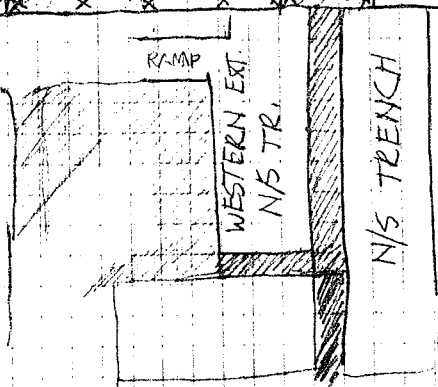
ALPHA



PLAN



TRANSIT OR LEVEL



[x] BM

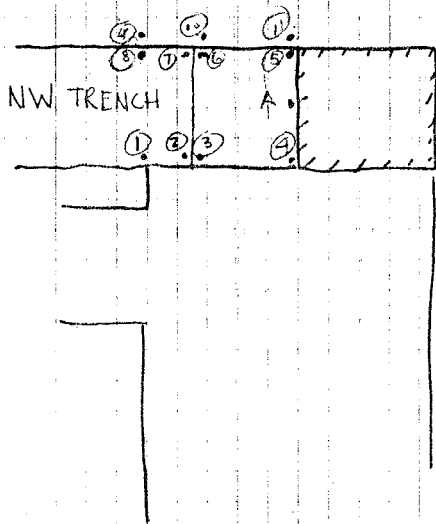
STA	H.I.	F.S.	ELEV.
1	2320	14975	
2		1400	
3		16425	
4		16200	0.70
5		1600	0.72
6		1566	
7		11800	
8	NO TABLE	1560	
9		0.7675	
10		0.8375	
11		0.660	1.66
(A)		1646	0.68

JUNE 16, 1981

51

NEW TRENCH AREA

STILL CLEARING



STA. H.I. FS. ELEV

2.32

A

1.60

0.72

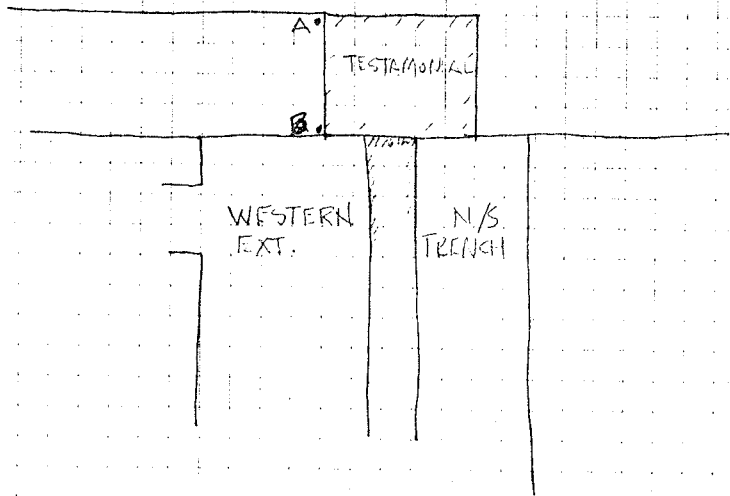
B

1.62

0.70

JUNE 16, 1981
JUNE 17, 1981

NW TRENCH BEGINNING LEVELS



BS

HI

FS

STADIA T/B

TURNED

ELEV.

TP#1

D'-1 235

0.365/0.105
26

00°00'00"

F'-1

1250

1290/1135
15.5

45°58'00" L

TEST.

3515

3.04/3.17
17 M

131°10'00" L

F'-1 10

485 385

D'-1 4625-435 4

4125 3125
640 0

00°00'00"

TP#1

1640/1650

1665/195

TEST.

3740

16825/15175
383/365
1517

96°30'00"
163°13'00"

TEST.

ALPHA .58

↗ 00°00'00"
04°30'00" ↑

D'-1

.267

.41/13
=11.10.96H

03°40'00" L ↑

F'-1

.44

.53/35
=18=17.95H

09°40'00" L ↑

TP#1

6v

.6825/175
=16.5M

18°36'40" R ↑

BM JUE

15.8

1650/1505
=14.5 10

09°40'00" ↓

0114M 18.95H
0174

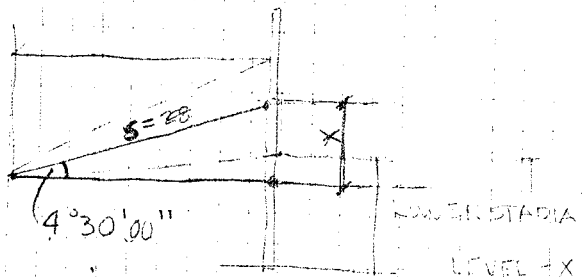
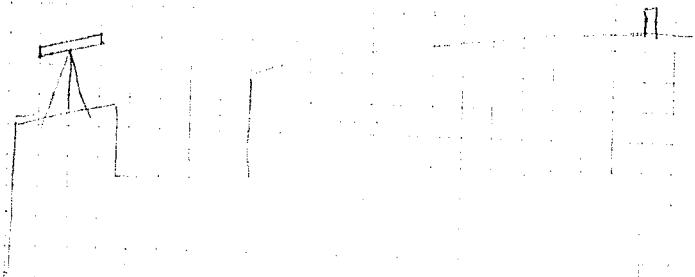
149°15'00" R

-13.99
14.077

BM
13
TEST.

F-1
13
17.6

P. 49 CONTINUED



$$\begin{aligned} \sin 4.50^\circ &= \frac{x}{28} \\ \sin 4.5^\circ &= \frac{x}{28} \\ \sin 4.5^\circ \cdot 28 &= x \\ 2.196 &= x \\ 2.2 &= x \end{aligned}$$



Pizzica

Summer

1981

Survey

Field Notes

Book

STA	Bs	FS	STADIA	TURNED	ELEV. (BM)	ELEV. (AL)
BM	216		22.3 22.4			
A-		14625	155 1375	31°53'00"	0.6975	
B		13175	13625 1215	66°40'00"	0.8375	
C		10425	1105 9325	74°14'00"	1.1120	
D-		14175	15225 133	41°32'00"	0.7425	
1)		1390			0.7700	
2)		119	1235/113		0.4750	
3)		14075 1320			0.8400	
4)		147	156		0.690	
X		5725	138			
2	2155		2275			
E		1270	2335 1315	67°13'00"		
F=I	.63		1230 74 62			
G		665	725 610	85°14'00"		
H		1115	1155 1075	87°55'00"		
I=F						

A
 B
 C
 ↓

JUNE 17, 1981

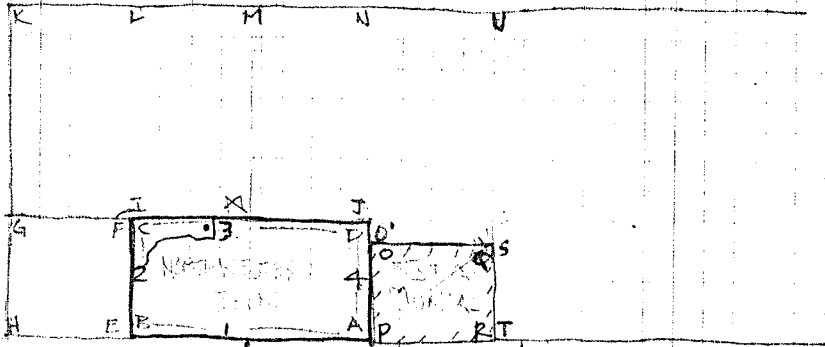
54,

NEW AREA PIZZICA : BULLDOZED AND CLEANED.

THIS INFORMATION SHOULD BE USED FOR SITE MAP CONSTRUCTION.

NEW TRENCH - NORTHWESTERN
BEGINNING ELEVATIONS

N
↑
NO SCALE

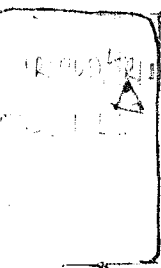


WESTERN
EXT
OF N/S
TRENCH

N/S
TRENCH

⊗
BM

EXISTING CONCRETE BEARING FOUNDATION

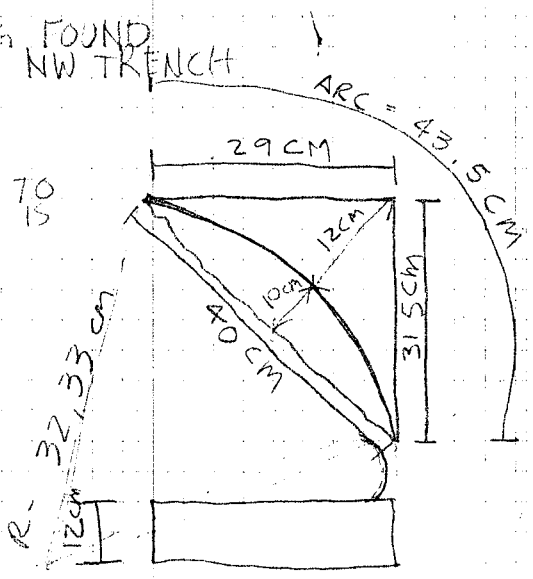
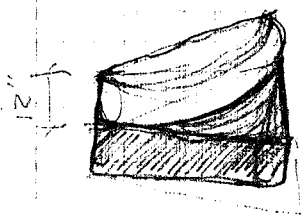


JUNE 16, 1931

CAPITAL FRAG FOUND
IN CLEARING NW TRENCH

- FROM TEMPLE?

SCALE SEEMS TO
INDICATE THIS IS
50.



T

Z
R
A = 1/2 A/C
T = 3/4 S/W/2
C = 3/4 A
5/16 1/4

F

STA	BS	FS	STADIA	TURNED	ELEV.
J		4375	5.3 3325		
K		.415	.565 .405	93°35'6"	
L		.4525	.5325 .3700	90°12'20"	
M		.4225	.515 .3425	63°43'37"	
N		.4550	.565 .345	49°37'53"	
O					
P					
Q					
R					
X ⁰		.415	.51 .32	40°07'00"	
T					
U		.4325	.5525 .3125	45°00'00"	

JUNE 17, 1981

56.

CONTINUED FROM P. 54.

BS

FS STADIA & TURNED

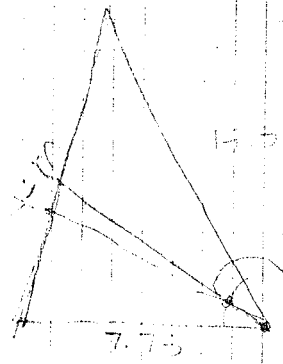
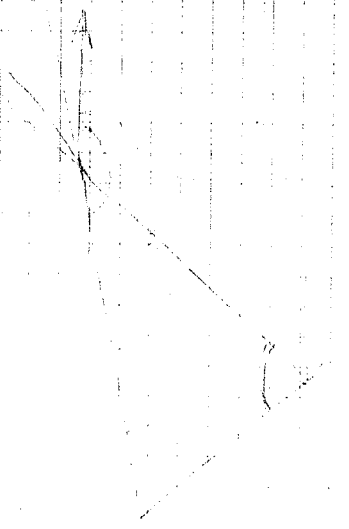
BM ~~26.75~~
26.5

27.25 →
26.75 →

7.75
15.5

① INITIAL

.15' .225' / 15.5' 58° 28' 00" R



58° 28' 00"

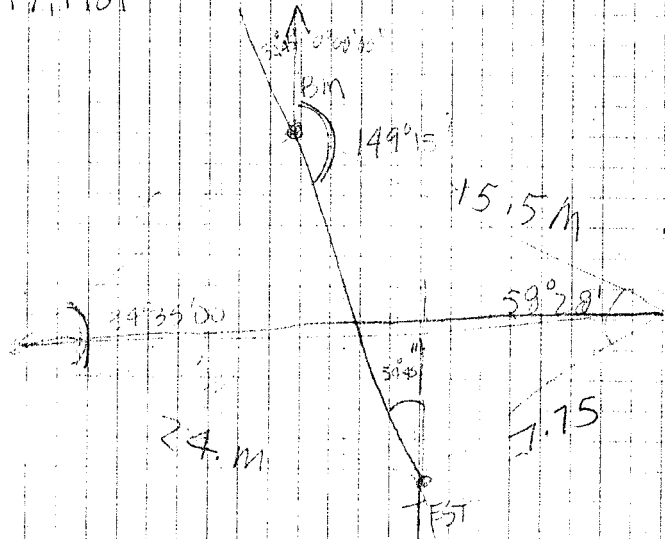
↑

3

3

JUNE 17, 1981

57.



STA	BS	HI	FS	ELEV.
BM	2.4875	2.4875		0
A			1.95	0.5375
B			1.98	0.5075
C			1.965	0.5225
D			2.00	0.4875
BM	2.52	2.52		0
E			1.9275	0.5925
F			1.98	0.5400
+				

} FROM 6/18/81

BM	2.4975			
A			1.82	0.6675
B			1.84	0.6475
C			1.685	0.8025
D			1.760	0.7275
E			1.540	0.9475
F			1.320	0.6675

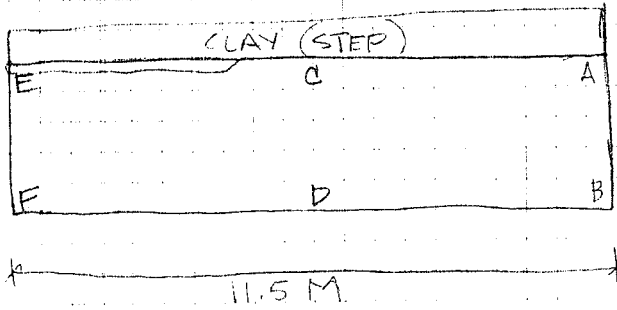
← FROM 6/18/81

JUNE 19, 1981

MORNING COOL, BREEZY, SUNNY

SHOOTING NW TRENCH LEVELS

BATTUTA 4



NO SCALE

BATTUTA 3

BM

BS/Hi
~~2.52~~
1.35

FS

ELEV. (TO
3m

F

11175 1140

0.21

G

1520

-0.17

A

18075

~~-7.25~~

-4.575

B

18525

-5.025

~~16.675~~

C

1630

-0.28

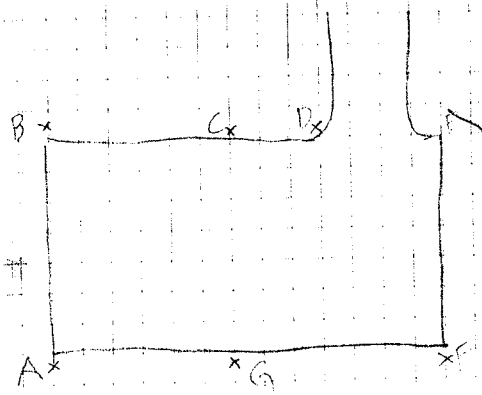
D

14175

-0.0675

JUNE 19, 1981

54.



N/W EXT. BALK
ELEV.

STA BS HI FS ELEV (To BM)

BM 2.52 252 - 0 -

A 2150 0.37

B 2225 0.295

C 2175 0.345

D 2260 0.260

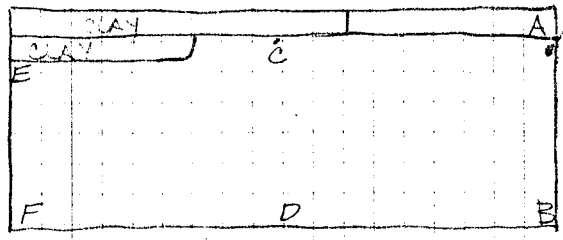
E

F

JUNE 19, 1981

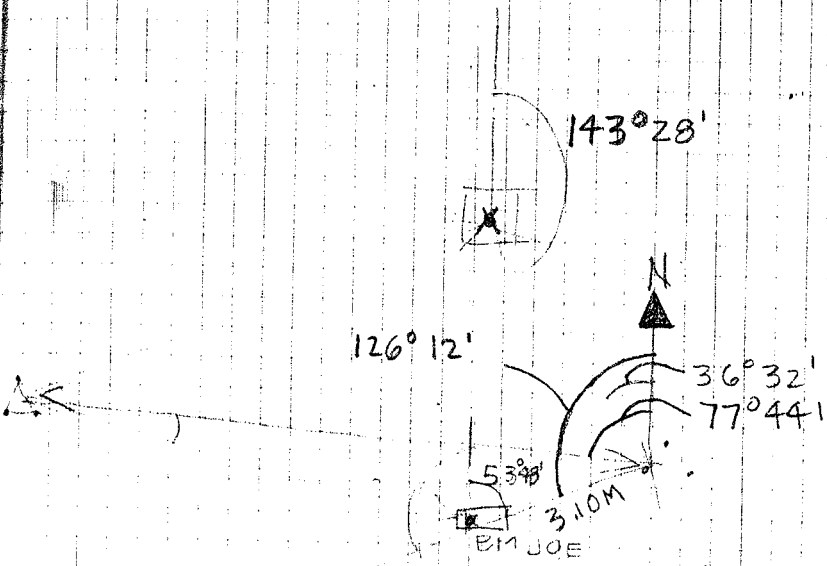
35.

AFTERNOON - HOT, SUNNY, BREEZY
N.W. TRENCH - BATTUTAS



JUNE 19, 1981

56



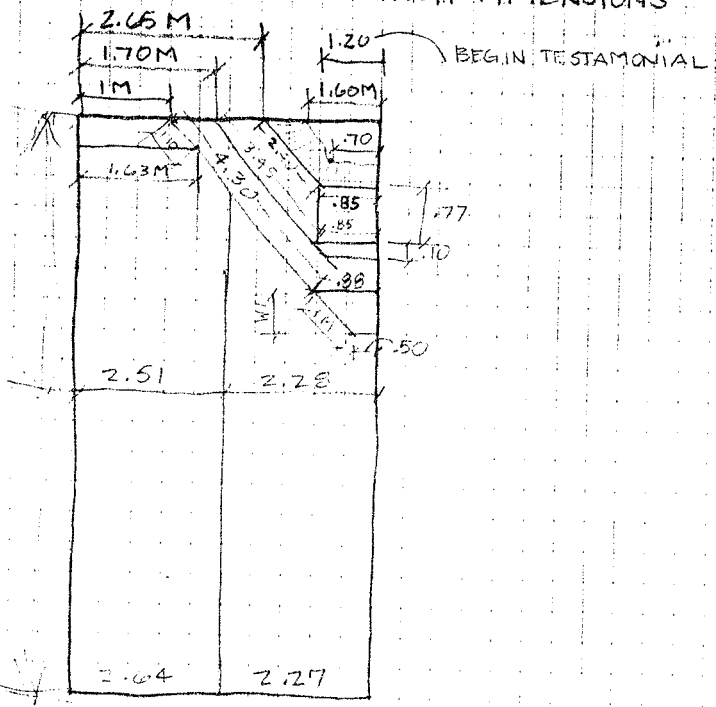
JUNE 20, 1981

57.

SAT @ A.M. WARM, SUNNY

WESTERN EXTENSION TRENCH DIMENSIONS

↑
N
NOT TO SCALE



STA

H: 1.1 (TO 13.1)

F.F.

B

1.03

1

2.82754

1.55

2

2.8525

1.56

3

2.405

1.15

4

2.1225

.84

5

2.0875

UPS

.84

6

T

.855

DOWNS

.36

7

T

.845

.33

(CORR. F.F.)

.99

18 CM

JUNE 21, 1981

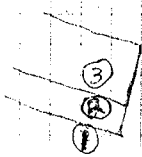
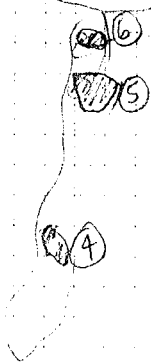
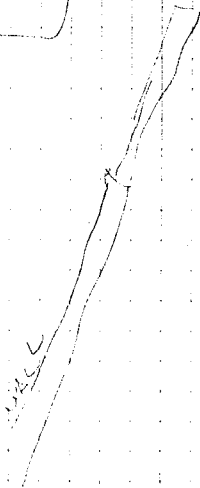
58

RECHECKING N BULK OF M. W. EXT. TRENCH
FOR UPPER STRATA LAYERS.

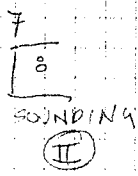
BM	BS	HI	FS	Z (RT.)	STADIA	ELEV
		004	<u>1.05</u>	00°00'00"	<u>.105</u>	0
1		304		136°40'00"		3.00 3.00
2		315				3.19 - 3.11
3		327				3.31 - 3.23
4		303				3.07 - 2.99
5		293				2.98 - 2.89
6		289				2.95 - 2.85
7		301				3.05 - 2.97
8		314		136°20'00"		- 3.10

7.01
 248
 FROM THE LEVEL

SOUNDING JULY I, II
19



SOUNDING I



Pizzica

Summer

1981

Survey

Field Notes

Book

(Lost Batt. 1980 - 2/11)

June 1 - 1-4
 2 - 4-10
 3 - 6-16
 4 - 16-22
 5 - 26-26
 6 - 26
 8 - 27-28
 9 - 28-30
 10 - 30-32
 11 - 33-37
 12 - 34-37
 15 - 37-42
 16 - 43-44
 17 - 45-47
 18 - 47-49
 19 - 49-51
 22 - 52-55
 23 - 56-61
 24 - 62-65
 25 - 66-73
 26 - 73-77
 29 - 78-81
 30 - 82-85

July 1 - 86-89
 2 - 90-93
 3 - 94-98
 4 - 99-101
 8
 8
 8

W. ext., WS Trench - 1-26, 30-42
 Batt. 12 - 1-10
 13 A - 10-13
 B - 33
 14 A - 14-16
 B - 35-36
 15 A - 17-18
 B - 37, 38
 16 A - 19-21
 B - 37, 39
 17 A - 21, 24-26
 B - 40-41

Well Trench
 Batt. 1 - 27-30, 81-93, 100-101
 2 - 84-89
 3 - 90-91, 92-93, 100-101

NW Trench
 Batt. 1 - 42-81
 2 - 42-43
 3 - 43-45
 4 - 46-47
 5 - 47-49
 6 - 50-51
 7 - 52-53
 8 - 53-55
 9 - 55-57
 10 - 57-58
 11 - 59, 61
 12 - 60-61
 13 - 60-61
 14 - 62-63
 15 - 63
 Ceramic Dep - 64-65
 66-81

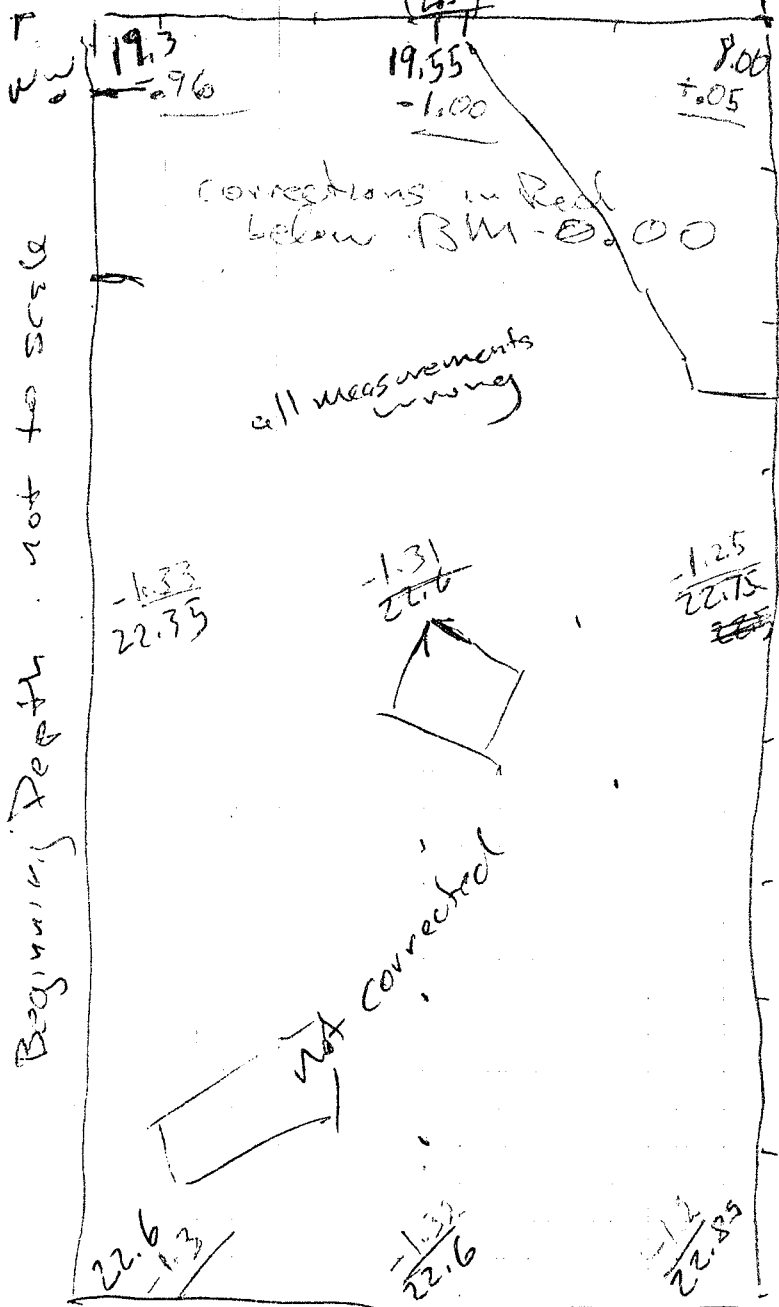
SOUNDINGS - 94 -

SUMMARIES IN BACK.)

Pizzica 1981

① ③

Western extension of WS Trench



↑ W
5'-2"

5'

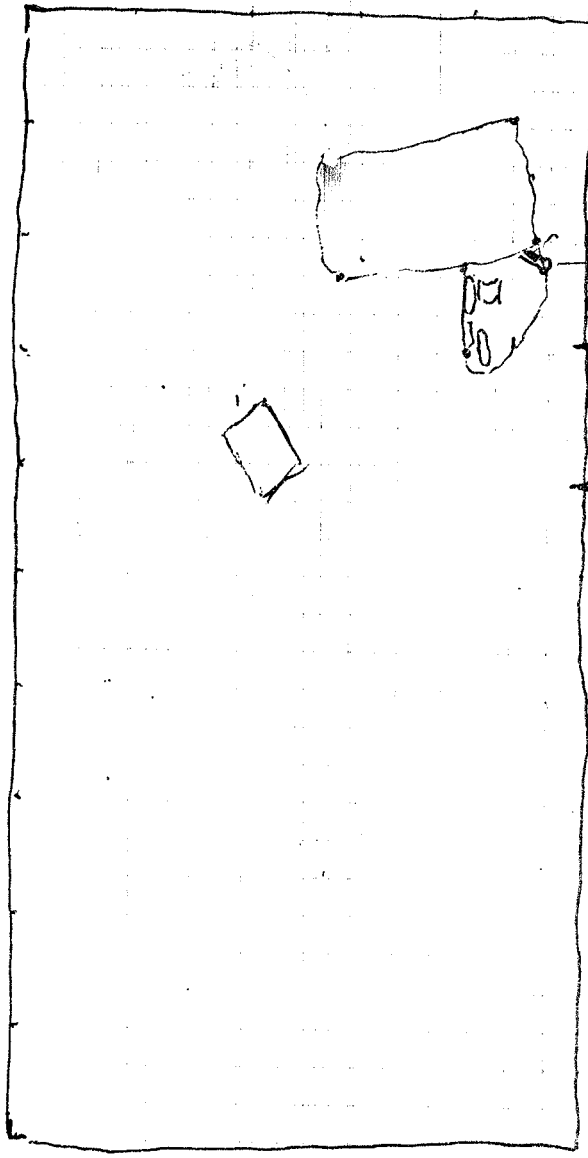
4'-2"

4'-7"

② 1-1m-1

~~end of~~ Bath. 12

→



25
25
~~1~~

Some

new level?
interface

new level

~~1~~

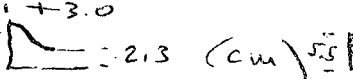
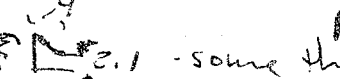
disregard

~~1~~

Battuta 12

June 1

3

- third & fourth wheelbarrow load to Boyce center east wall K¹-1
next 3rd same place
- Soil color ^{10YR} 5/3 - ^{brown} 4/3 - Munsells east side K¹-1
- fine sandy soil, close packed
- Instr. Hgt 0.93
- Within soil matrix - stones of various sizes
water worn (rounded) and lg pcs of Tile.
- Tile - interior orange w/red slip (?)
+ Tan flat tile - two types
- next wheelbarrow load to Boyce
from center trench K¹-1
- Bones center K¹-1
_{i + 3.0}
- tile ^{5.5}  2.3 (cm) ^{5.5}  - some thinner
1-2.5 cm
- Section of Brick column
- a couple of pcs at tile with Block center
Brick 4 cm high possibly 26 cm Rad.
- 3rd wheelbarrow after lunch to Boyce
center K¹-1 extended area now from last
load.
- in the center north side of Rock Pile
was a decayed tile - same orange
~~tile~~, underneath the soil a seemed more
clay like though still 10YR 4/3 munsells
15 x 20 cm, laid at angle -
behind is NS pile of rock + tile extending
70 cm

June 1

(14) Sp. f. - 4-1

PZ-81-2B

PZ-81-3S

PZ-81-4M

PZ-81-5WS

PZ-81-6WS

PZ-81-7WS

PZ-81-8A

PZ-81-9B

PZ-81-10M

- Boyle

"

"

S
C

W
W
W

- (2nd) next load to Boyce north of rock pile. 3rd load after lunch south side of pile
- in small bags one Base Amp? one Flint? Basal one Iron lump

Bone
 Tile, Coarseware, ass. pottery - together
 PZ-81-1 PL K'-1

Late start and slow with only one wheelbarrow worked early in K'-1.

- early confusion w/ levels see Gloria's notebook to decipher

Cont from yesterday June 2
 Work moving north

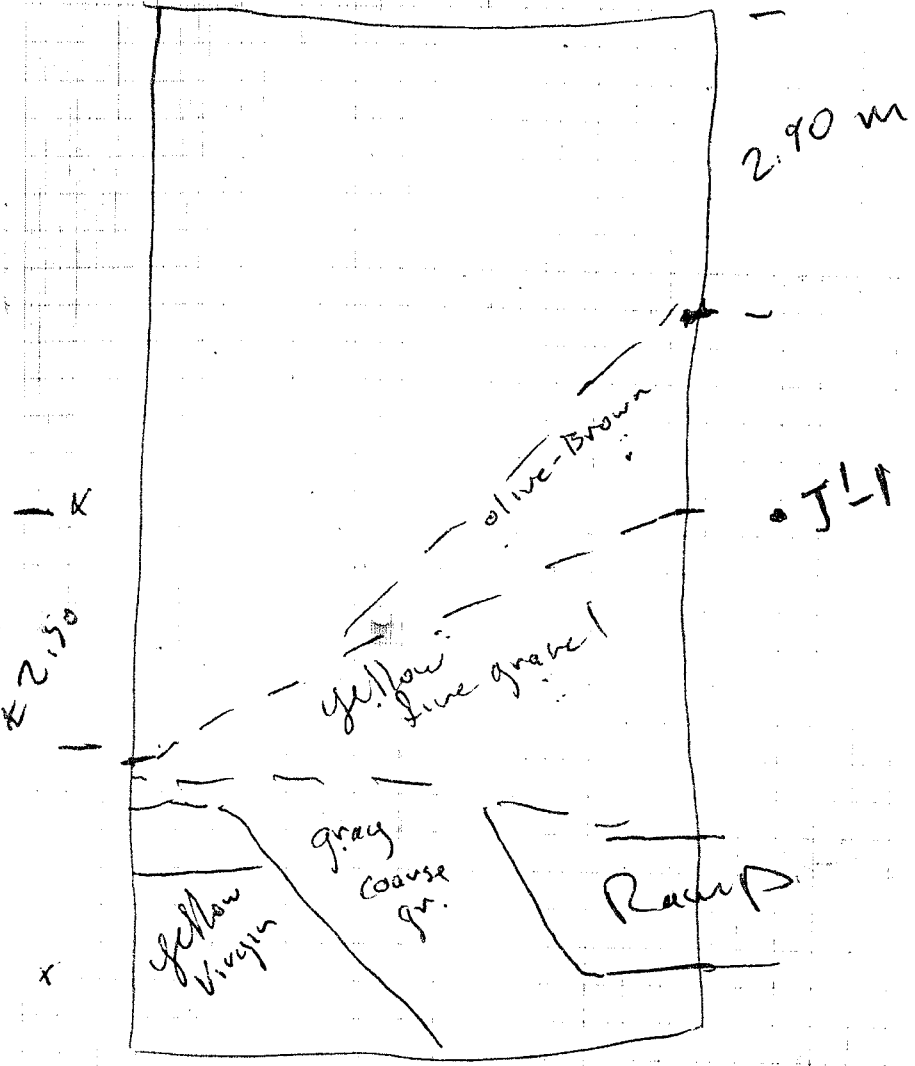
Start W end K'-1 Batt. 12
 This seems to be a new level on west side 2.90 m
 2.57-4/4 munsells fine silty sand
 One Brown

First load to Boyce just west of stone - Batt 12, K'-1

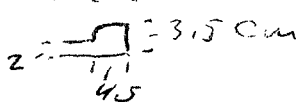
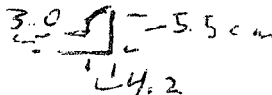
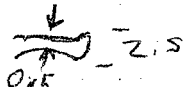
Instr. Hgt. 0.81 (0.79)

For the new level separated boxes east and west side of Trench
 The difference in color between east and west is slight but the west is sandier less clayline than east

α 46



↓ N

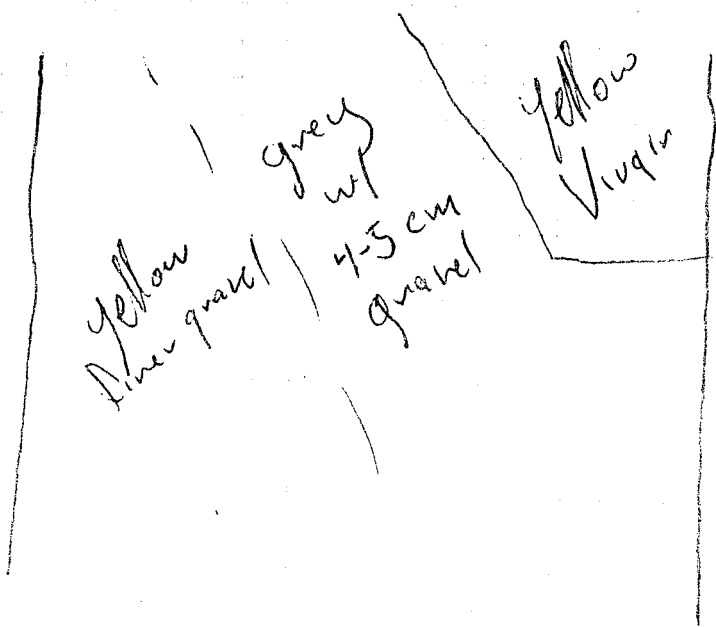
- Just at line K'-1/J'-1 much charcoal turning up in soil on east side.
- to Boyce NW of K'-1, SW of J'-1, SE J'-1
- on ~~east~~ ^{west} side, just at wall approx. K'-1/J'-1 new level color 2.5 Y 5/4 munsells fine sand/silty from above new level? maybe interface
- Connected instr. left 0079
- pic. color 102 Boyce in Canal
small w. wall
- 5:20 X 1:20 - grey painted pottery in new level
- new level appears run into J'-1 on east wall
- Chris took 1 pic looking north
- On east side immediately through new level to a grey wet clay w/ orange streaks - iron oxide 5Y 6/1 munsells grey
- two more loads to Boyce new level center J'-1
- The quantity of finds from this new level is much more than yesterday.
- two types of tile from west side a buff color  = 3.5 cm
- and a lt. orange clay  = 5.5 cm &  = 2.5

Same type of tiles from lower half of old level on east side & new level

55

not to scale

N
W



- PZ-81-17 P C yellow
- PZ-81-18 PL E Brown
- PZ-81-18 P E ~~yellow~~
- PZ-81-18 WS E
- PZ-81-18 B E Brown
- PZ-81-18 M E Brown
- PZ-81-18 SS

- PZ-81-11 PL KLI W
- PZ-81-12 WS
- PZ-81-13 WS
- PZ-81-14 WS
- PZ-81-15 PL KLI E
- PZ-81-16 B E
- PZ-81-17 M E
- PZ-81-18 P PLIS - yellow
- PZ-81-19 WS
- PZ-81-20 PL SW - olive brown
- ~~PZ~~ PZ-81-21 M "
- PZ-81-22 B "
- PZ-81-23 WS
- PZ-81-24 WS
- PZ-81-25 PL
- PZ-81-26 P.A-B yellow to grey
- PZ-81-27 PL " on grey
- PZ-81-28 BS " yellow to grey
- PZ-81-30 P on grey
- PZ-81-32 PL in grey

- yellow S w/dine
- yellow S "
- w. oak yellow S w/dine
- AB B
- 42 T AB B
- 43 WS
- 44 WS
- 45 SS
- 46 PL C yellow to grey

29, 31

- Gray clay level appearing towards center of J-1 w/ pottery, tiles, charcoal lying on or in it

- North end of J-1 near Ramp immense quantity of pottery. The pottery seems to be mixed in w/ the gray clay + charcoal more coarse wares

- Photos of pot. deposit N side of J-1

yellow - fine gravel mix to grey much lg. gravel + coarser pottery

- Very hectic + fast

- Some pottery from this zone has bone debris in it - evidence of cooking

new level? = interface = Olive Br. sand
new level = yellow # w/ fine gravel
old level = Brown
grey = grey w/ coarse gr.

26 lg plastic - pottery
Bones

18 small apr. finds - Charcoal
Bone
Pottery
iron



- PZ-81-33 B
- PZ-81-34 PL
- PZ-81-35 PL
- PZ-81-36 P
- PZ-81-37 WS
- PZ-81-38 M
- PZ-81-39 B
- PZ-81-40 PL

- In grey
- Brown
- W. yellow w grey
- In grey
- W yellow sand w/ rim
- "
- "
- "

SS 41-51
PZ-81-51 B. Brown
PZ-81-56 PL B. Yellow-grey
PZ-81-57 B
PZ-81-58 A B. Brown
PZ-81-59 A B. Yellow
PZ-81-60 PL B. Yellow
PZ-81-61 B
PZ-81-62 B
PZ-81-63 B
PZ-81-64 B
PZ-81-65 B
PZ-81-66 B
PZ-81-67 B
PZ-81-68 B
PZ-81-69 B
PZ-81-70 B
PZ-81-71 B
PZ-81-72 B
PZ-81-73 B
PZ-81-74 B
PZ-81-75 B
PZ-81-76 B
PZ-81-77 B
PZ-81-78 B
PZ-81-79 B
PZ-81-80 B
PZ-81-81 B
PZ-81-82 B
PZ-81-83 B
PZ-81-84 B
PZ-81-85 B
PZ-81-86 B
PZ-81-87 B
PZ-81-88 B
PZ-81-89 B
PZ-81-90 B
PZ-81-91 B
PZ-81-92 B
PZ-81-93 B
PZ-81-94 B
PZ-81-95 B
PZ-81-96 B
PZ-81-97 B
PZ-81-98 B
PZ-81-99 B
PZ-81-100 B

yellow
PZ-81-18-21
PZ-81-18-22
PZ-81-18-23

yellow
PZ-81-18-24
PZ-81-18-25
PZ-81-18-26
PZ-81-18-27
PZ-81-18-28
PZ-81-18-29
PZ-81-18-30
PZ-81-18-31
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PZ-81-18-91
PZ-81-18-92
PZ-81-18-93
PZ-81-18-94
PZ-81-18-95
PZ-81-18-96
PZ-81-18-97
PZ-81-18-98
PZ-81-18-99
PZ-81-18-100

Battuta 12 - finished leaving NW
corner high.

In the N. 1/2 at Trench is a complicated stratigraphy composed of a yellow silty sand w/ fine gravel over a grey clay-like soil w/ larger gravel. In these two layers was found immense quantities of pottery. Some iron slag, few bones. One pc. of pottery was a leg sherd at Roof figure wave. These layers may sit over the yellow virgin sand which appears in NE corner.

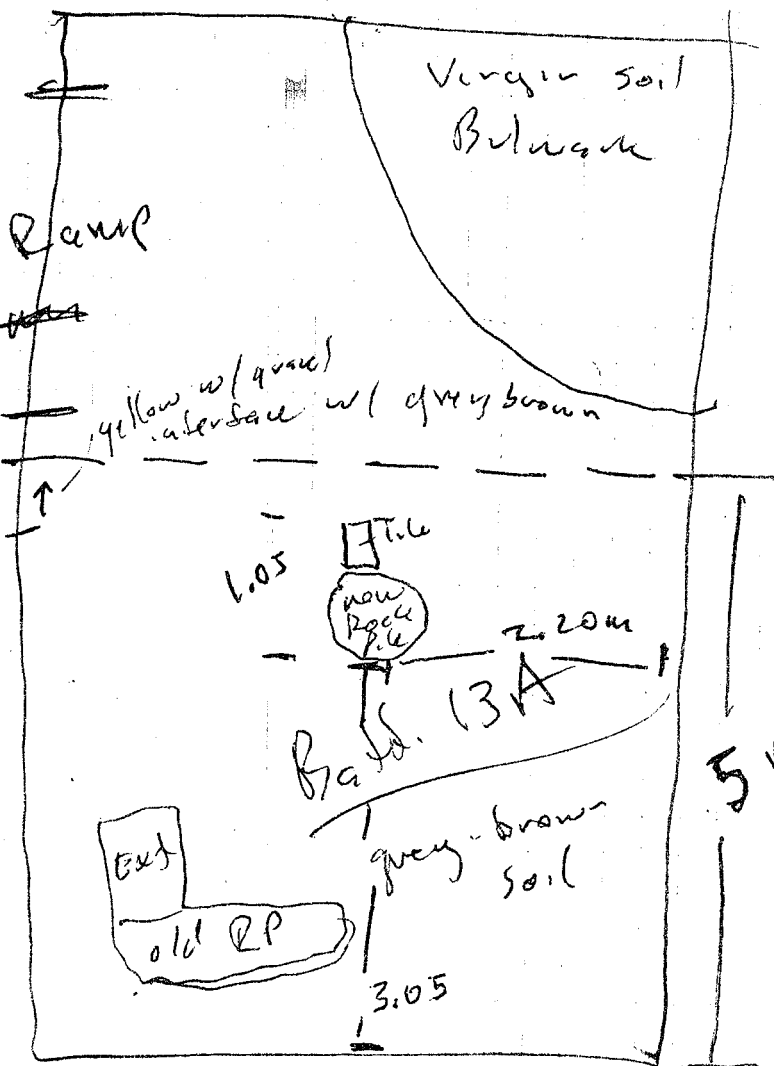
June 3

- 3 Photos at Batt. 12 Blue-looking South
- Squared Stone in Center moved out
- Batt. 13 to be dug out of the S. half of the Trench
- Soil K-1 s. 1/2 Batt. 13
10 YR 5/2 (Brown) Munsell's (grey-Brown)
Fine silty sand tending to clump - close packed
= the same as before
- very few finds S and of K-1 Batt. 13
- Soil consistency the same but color grayer
- Soil may be getting lighter in color across center of sq.
- SE corner a couple of sm. sherds of T.S.
Betw. Rock pile and west wall a greater concentration of tile than the other areas
- About 2m up from Small on east side is a small scatter of charcoal
- Soil DK grayish Brown center 10 YR 5/2
- Differences in Soil color are close enough to be natural variations
- Pottery concentration increasing as the Batt. moves W.
- Tile west side - Red-Orange Sabic - ~~with~~
w/ a yellow layer coating one side

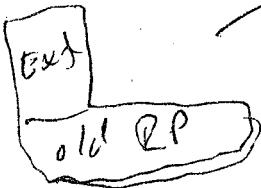
(10)

not to scale

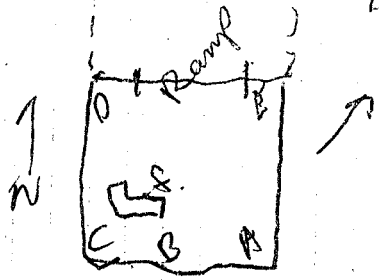
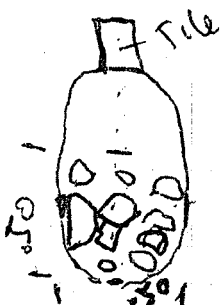
mg/gh



PZ-81-1018 qv. Bn
 PZ-81-1018-81-1030 " "
 PZ-81-1040 " "



5 M
 PZ-81-88 PL qv. Bn
 PZ-81-90 PL " "
 PZ-81-18-24 m
 PZ-81-18-24 qv. Bn
 PZ-81-18-24
 PZ-81-18-24
 PZ-81-18-24



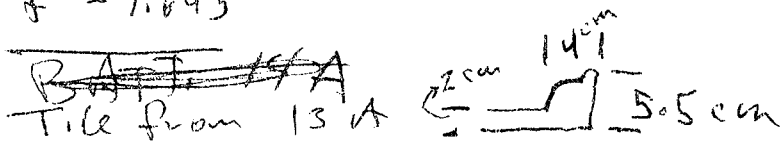
- Stamp found 3m North along west wall (12)
- The yellow w/ fine gravel begins to appear at the J-1/K-1 line on the west wall
- Calling Batt. 13 in the S. 1/2 of Trench Batt. 13A
 - 1 Br. gu. Br. to yellow west side
- 2 Bags from grey Br. in B. 13A
- Special Bag glass Bowl frag from center at line bet to J-1
- a rock & Tile pipe similar to the extension found in B. 12 has appeared in the center of the Trench about 75cm south of J-1/K-1 line in the vicinity of the dressed block removed earlier
- Jo new Rock & tile 3.05. to 4.10 far side north, major concentration .50 in K. 50. 2.20 west.

measurements B. 13A

H1 .65

- A - 1.635
- B - 1.665
- C - 1.650
- D - 1.640
- E - 1.610
- F - 1.645

3 photos Blue-South

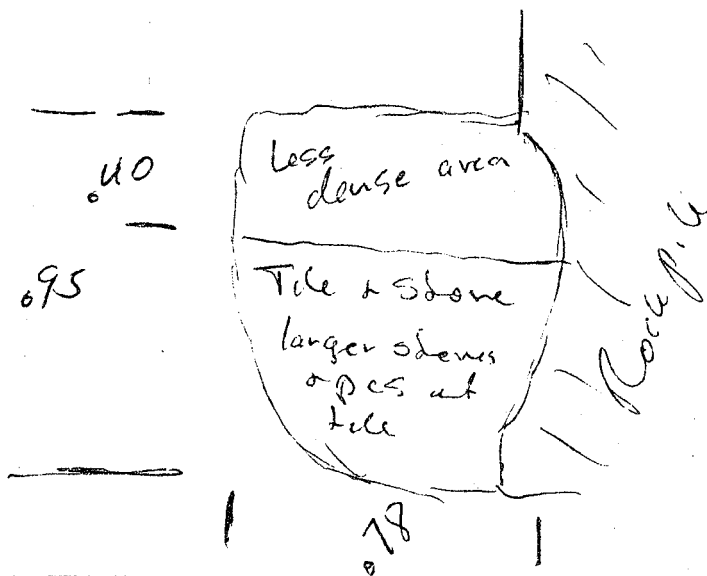


Batt. 13A continued the trends seen in the higher Battute the grey Br. soil keeps the same consistency and is at a deeper level than the other soils which appear in the N. end. The line of the yellow moves south slowly. The pottery is consistent.

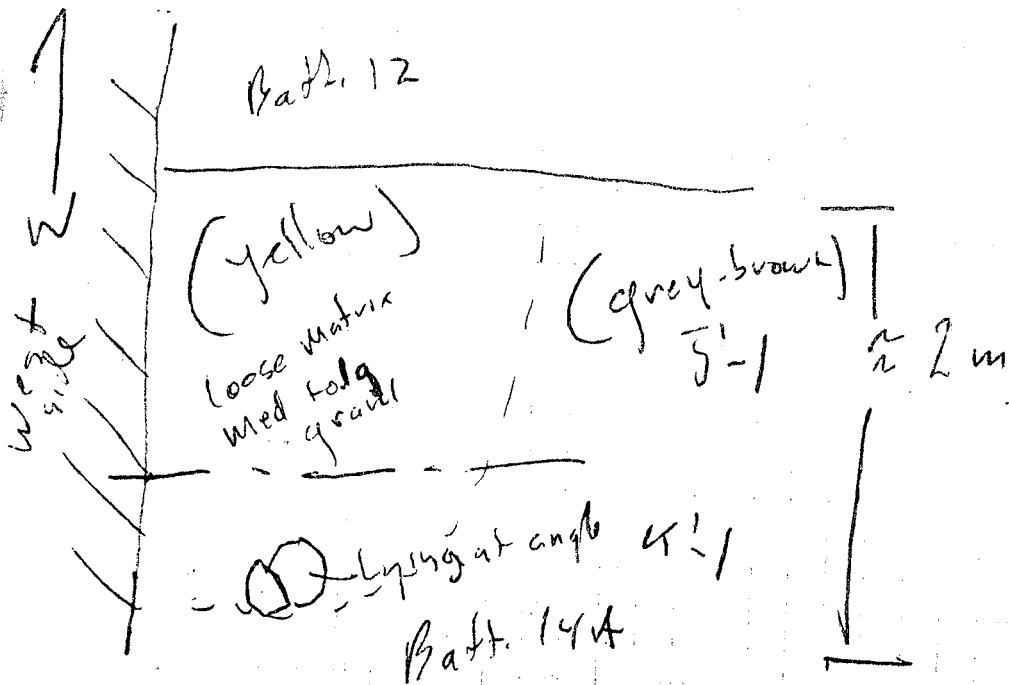
Rock pile ext. 4'-1'

13A

13



- PZ-81-106T qv. Br
- PZ-81-108T qv. Br
- PZ-81-109SS qv. Br / yell New
- PZ-81-110T qv. Br
- PZ-81-112M " = / yell
- PZ-81-115T " = / yell
- PZ-81-116m qv. Br
- PZ-81-117g " = / yell



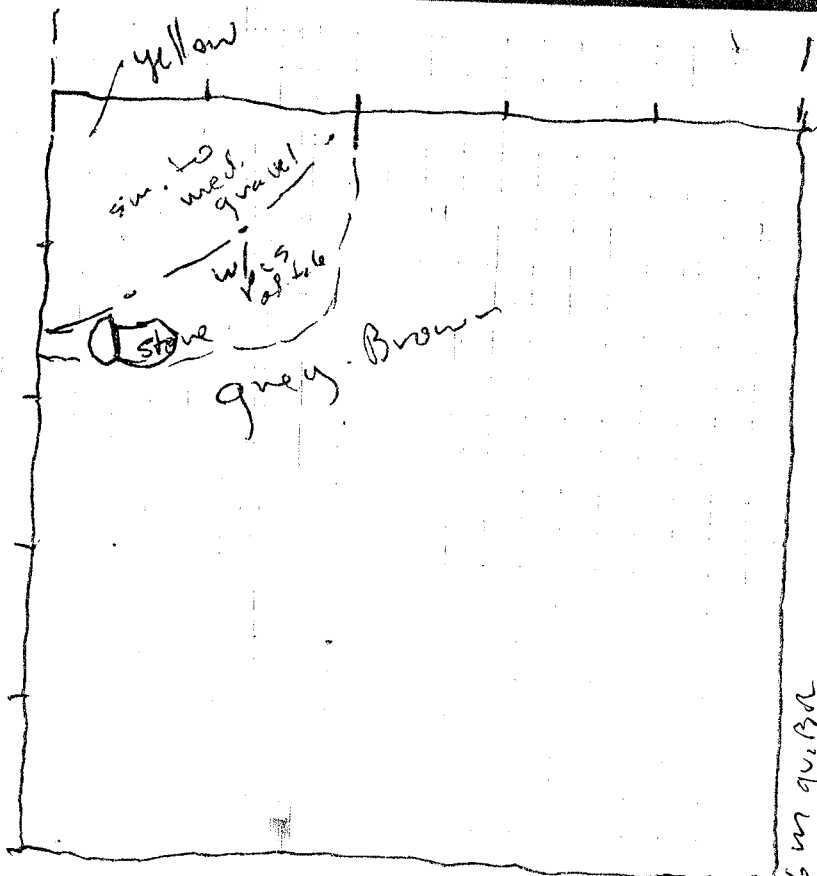
BATT. 14A

(14)

- S. end less of a tendency for the grey brown soil to clump
- Charcoal flecks continue - saved some soil in Black wash tub from SE Batt. 14A
- more and finer pottery from west side
- Many Charcoal flecks in South end.
- Tile concentration + Stone. NW old Rock pile extension, sitting on yellow?
- it was decided to remove the L-shaped pile of rock + Tile. given its own label and bag.
- a load in a Black wash tub taken to Boyce from Rock Pile - from area ad loc. bowls.
- large pcs of bone have appeared. in Rock pile.
- Concentration in Rock pile thins out quickly - very little in lower $\approx 0.20 - 0.30$ m.
 - 25x17x9 } two stones that looked as if
 - 20x15x8 } they had been squarred
- from Rock Pile (RP) - Lg. Rock + Tile very little pottery - in lower half some small pcs of coarse + fine - charcoal flecks
- 1 bag of artifacts from RP
- Batt. 14A ≈ 0.50 S. of 4'-1 / 5'-1 line another concentration - occurs - over yellow? including a round stone / tile tilted to SW
- Tile Concentration may be part of a layer w/ ~~the~~ medium sized rounded stones in NW Quad.

15

27



-- -- = limit of gravel patch
 /o -- = soil color

PZ-81-146 m qu. Br
 PZ-81-134 SS " " N.E.

not every close concentration but not

Bel. 14A

- PZ-81-84 PL qu. Br.
- PZ-81-85 PL " "
- PZ-81-86 P " "
- PZ-81-88 PL " "
- PZ-81-84 T " "
- PZ-81-95 PL Rock pile
- PZ-81-96 T " "
- PZ-81-97 T " "
- PZ-81-98 B " "
- PZ-81-99 PL qu. Br. to yellow
- PZ-81-100 B qu. Br.
- ~~PZ-81-101 B " "~~
- PZ-81-102 P qu. Br. to yellow
- ~~PZ-81-103 B qu. Br.~~
- ~~PZ-81-104 B " "~~
- PZ-81-105 T qu. Br.
- ~~PZ-81-106 T " "~~
- PZ-81-107 T Rock pile
- PZ-81-111 m qu. Br. to yellow
- PZ-81-113 m Rock pile
- PZ-81-114 m qu. Br.
- PZ-81-118 B " "
- PZ-81-130 PL " "
- PZ-81-131 T " "
- PZ-81-132 S " "

(51)

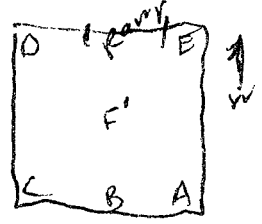
- ~~west~~ east of center Wend of U-1
a lg. Bunt patch - removed and saved
chunks of soil $\approx 0.90 \times 0.50$
- NW quad. cobble layer between
grey brown + yellow - mixed in both
approx 21.30×1.02
- in grey east side one missed plate bottom
- center Rock pile from 13A removed
- Leaving the cobble patch in NW quad
to see if it extends
- end of day not finished - two bags from
grey/brown, one from grey brown to yellow

June 4 Batt. 14A

- 2 pieces lg. gravel layer in NW quad
of section A

Measurements uncorrected

A	24.00
B	23.10
C	25.075
D	23.625
E	24.40
F'	25.175

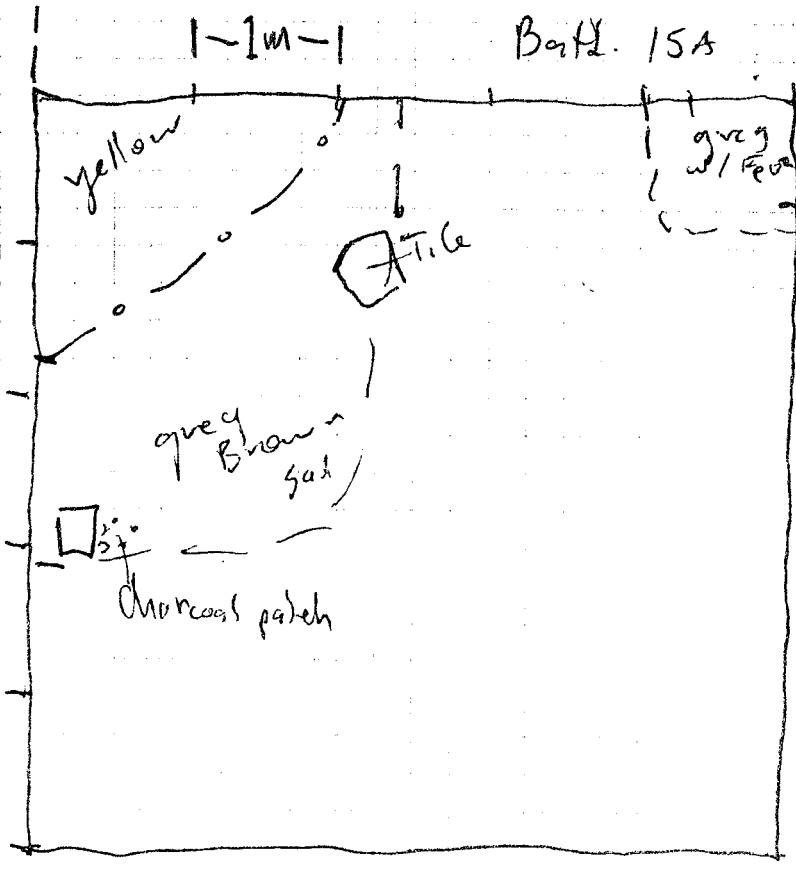


H.I. 069
-1.25
-1.88
-1.8575
1.75 -1.715
-1.79
-1.8675

- NE corner 1. x .80 grey w/ Iron oxide at Pattern
yellow does not seem to be on this side
- more pcs of pottery line blocked

(17)

BarH. 15A



bigger rocks and pcs of tile found
new part in grey Brown

- PZ-81-119B S. gn br.
- PZ-81-120B " "
- PZ-81-123B NW gn br.
- PZ-81-133PL S. gn. BR
- PZ-81-134PL NE " "
- PZ-81-135P " "
- ~~PZ-81-136P~~ " "
- PZ-81-137P NE " "
- PZ-81-138T NE " "
- PZ-81-139PL NW gn. br
- PZ-81-140T " "
- PZ-81-141PL grey
- ~~PZ-81-142PL S. gn. br~~
- ~~PZ-81-143PL gn. br to tile~~
- ~~PZ-81-144P~~
- PZ-81-147M S. gn. BR
- PZ-81-148M gn. BR
- PZ-81-149B " "
- PZ-81-152M NE gn br
- PZ-81-153T NE " "
- PZ-81-154M NW " L. Rocky
- PZ-81-155SS gn. Br to tile

Bath 15A

(18)

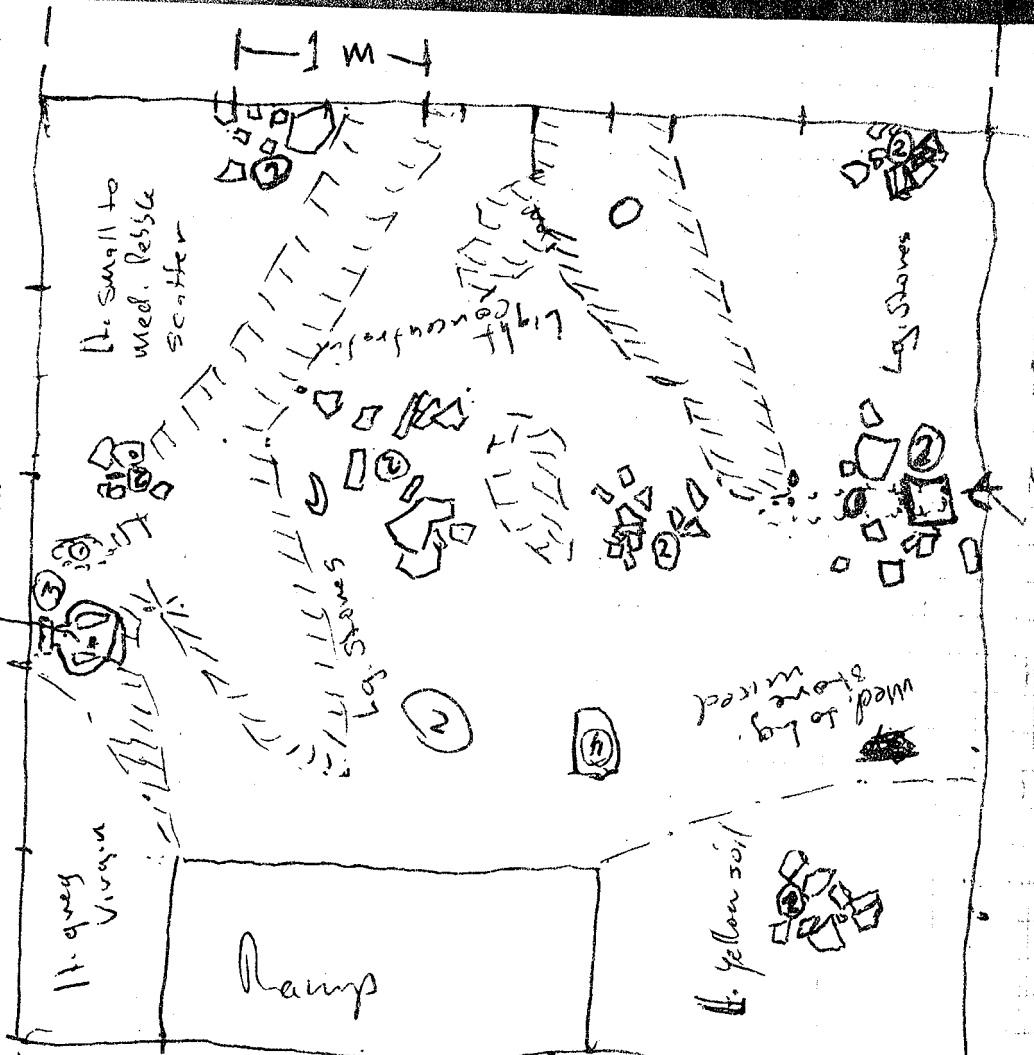
- Sand - these lower levels of the grey brown are more clay like with greater concentrations of charcoal
- Soil is much wetter in this Bath.
- Slight tile concentration SW corner
- Charcoal patch $\approx 0.30 \times 0.30$ m 2m south of K11/S1-1 line on east side
- lg patches occurring across the center of section A.
- pottery quantity increases N.
- Tile & coarseware concentration ≈ 2.5 m N. of South wall on west side
- Broken pot collected together Bag #6 was found against a rock
- In tile concentration west side was found a possible piece of mortar
- Charcoal patch S. end
- Tile and rock concentration appearing lower towards center ≈ 2 m in
- Grey w/ iron oxide stains in NE corner a couple of lg stones appear resting on it

A -1.945
B -1.970
C -2.010
D _____
E -1.7425
F _____

PZ-#1-150T Sponedie

19

Not to scale



- ① Charcoal or decayed vegetation
- ② Tile scatter and coarse
- ③ Amp. Neck
- ④ not so large dump drag



- Soil predominantly grey Brown clay
 ↑ within Cob concentrations
 ↓ without



FBW-891
 CP Roll 2
 # 7

Bath. 16A

(20)

- in South end the grey-brown is consistently wetter and more like clay, the charcoal patches may be decayed Vegetal remains - ~~found above~~ become more prevalent
- The Rock and Tile patch on west side Thins out into yellow soil. The larger pcs may have been unrecognized in the upper layer - it probably sits at the base of the grey brown soil
- The light grey layer w/ the iron oxide stains is appearing in the South end of the level
- Sitting on the grey layer is a lg. quantity of tile + coarse ware
- Columns - 6 sections 43 cm Dia.



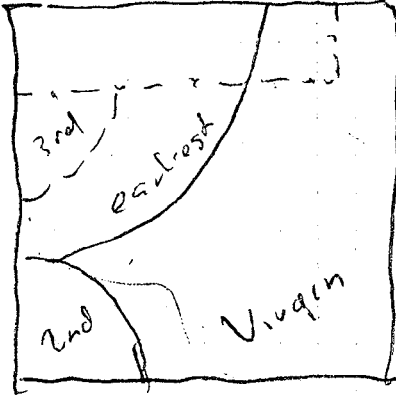
each section 20 cm Rad

1- 43 - 1

- The Base of Bath. 16A is the light grey level
- 2 wash tubs to Boyce S. end
- Tile + Rock concentration - spreading South + east
- Rock + Tile Conc. has been left since 1905 it now reaches S. wall

- PZ-81-151S Rock Concrey
- PZ-81-162 PL - Tile & Rock
- PZ-81-163 P "
- PZ-81-165 PL "
- PZ-81-166 PL "
- PZ-81-167 PL "
- PZ-81-168 P "
- PZ-81-169 P "
- PZ-81-170 S "
- ~~PZ-81-171 W S~~
- PZ-81-174 B SW Tile
- PZ-81-176 M Tile & Rock
- PZ-81-177 S "
- PZ-81-178 M "
- PZ-81-179 B "
- PZ-81-180 B "
- PZ-81-181 B "
- PZ-81-218 M NW Gravel
- PZ-81-219 S "
- PZ-81-220 P "

Seep. 25-6



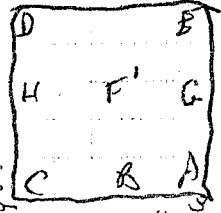
I see a seewas
 out of the
 top of the

(2)

HI. $\frac{16A}{.11}$
 A - 2.0225
 B - 2.07
 C - 1.9525
 D - 1.67
 E - 1.83
 F - 1.99
 G - 1.9925
 H - 1.8625

Bull. 17A

- PZ-81-121 B SE qm Br
- PZ-81-122 S qv Br
- PZ-81-124 B SE qm Br
- PZ-81-125 B S qm Br
- PZ-81-126 B SE " - to N grey
- PZ-81-127 B qm Br - to Rock Concrey
- PZ-81-128 B " " "
- PZ-81-129 B NE 1/4 qv.
- PZ-81-142 PL qm Br SE
- PZ-81-143 PL qv Br to Concrey
- PZ-81-144 PL qm Br to Tile Con
- PZ-81-145 PL NE 1/4 qv.
- PZ-81-156 m Cen Br
- PZ-81-157 m "
- PZ-81-158 m to tile qv
- PZ-81-159 S SW to Conc
- PZ-81-160 B, Rock + Tile
- PZ-81-161 PL to tile
- PZ-81-164 PL NE 1/4 qv



HI 071

- 16A' + Rock Feature / concent. (22)

A. 27.15

- 2.005

PZ-81-171WS

B. 27.40

- 2.03

PZ-81-172B Tile Con. in grey

C. 26.70

- 1.96

PZ-81-175WS

D. 23.80

- 1.67

PZ-81-200T gr. Br. tile

- Making Batt. 16A deeper to find limits at feature

2.67
0.71
1.96

- Color photo of Aug. Wall

- Color + BW at ~~to~~ Ex. Lumber? found in Rock Concent. - Center South Trench

- in NE of section A - grey area - stone Concentr. as well - but definitely within grey

June 5 - last night rain

Special Batt. 16A

- work continuing to find extent of Rock + Tile Concentration

- heavier staining of H. grey in NE corner of sect. A

- Batt. 16A is to the top of the Concent. etc. in NE corner where it extends into H. grey

- in the concent. of smaller stones and larger concentrations of pottery to SE

almost all coarse

- The Concentration also thins out considerably to SE

- ~~Plattered~~ photos to #16 wall #2

23

Sm Lomed
① ~~med. stony~~
stones

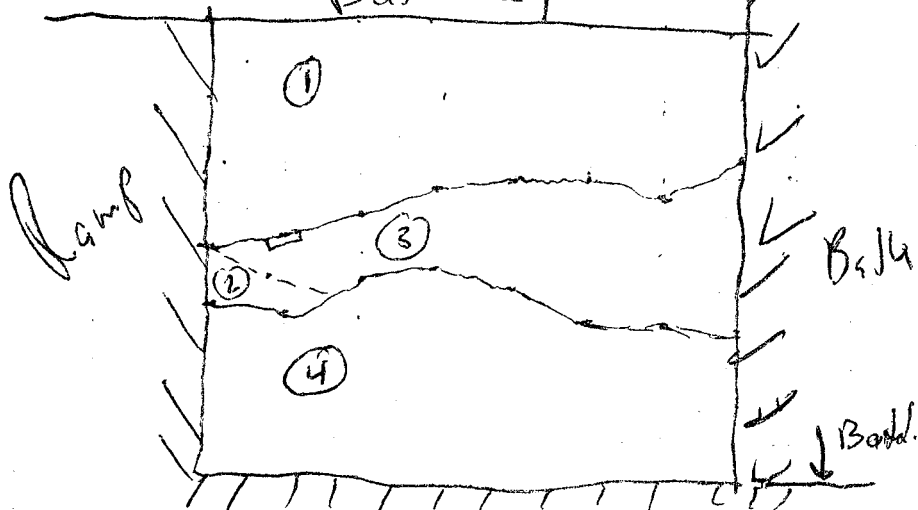
in wet lit. grey
soil (clay)

② sm. pebbles
in grey Brown

③ Lg. Stone surrounded
by med. stony

X - Bones

Profile N. wall of Sect A Eastside
Batt. 12 ↑



1) greyish Brown 2.57 5/2 unsorted
mixed charcoal, pebbles, ceramic
fine silty sand

2) 5y 6/1 - light grey to grey mottled with 10YR 5/6
yellowish Brown (thin FeO₂) fine sand

3) mixed #1 + #2 - a hole?

4) Clay same colors as #2.

Bas. 17A - Tile + Rock Content. (24)

- in Con. - generally rounded stones
some select. pcs. of conglomerate
and some flattened stones - Squared perhaps
- This is probably a dump
- mostly coarse
- Flattened stones A - 22x20x3
B - 22x22x6
C - 29x23x9
- at the base of the Tile + Rock in area
is small pebbles in SW corner 0.6 x 2.0
all wall.
- Coarseware + Tiles collected
- Virgin Soil NE corner
5Y 6/1 to 5Y 5/1 light grey to grey - Munsell's
w/ iron oxide stains
very clay-like + moist - 10 clay
- Concentration seems deeper on West side
to 1.50 ^{to} 2.10 ^{East} on SW wall grey wet soil
with lg. stones and tile - a deeper pit
or canal perhaps
- to 1.50 grey-brown w/ small gravel
- Chris taking color photos of well
- Photos BW + color of Bull horn + skull
2.10 m E by 2.0 m N
- on East side 2.10 ~~N~~ by 1 m West
latite + grinding stone
a pit within the Virgin grey
Virgin clay on East side by quantity of iron oxide
standing

25

17A

SW

Dark grayish Br.
Clay-stained
Fe Ox - Virginia



Cl. grey
lime sand & clay
with iron oxide staining

iron - Virginia

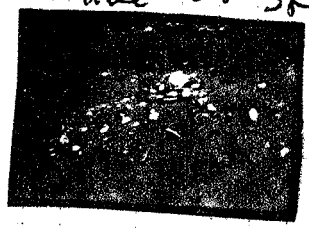
small pebbles

Coarse
X scatter

Tile
scatter

Unexc.

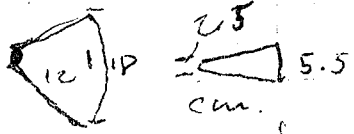
- ① lg rock surrounded by med.
- ② areas of med shales and Tile + coarse
- ③ ox skull & horn
- ④ horn
- ⑤ dig June 10 - wished thinking I saw another pit - There is however a loose line at shores there (p. 30)



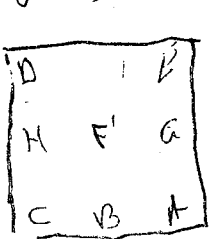
FBW-50
CP Roll 2
#22

June 10 1952-188Z

- wedge shaped brick



- Light grey in NE appears more heavily stained and as a very fine, wet sand
- Much Coarse little grey ware
- NE corner soil - fine sand - heavily mottled grey and lt. orange



.67	
A	3.455
B	3.51
C	3.495
E	3.36
F	3.46
G	3.455
H	3.345

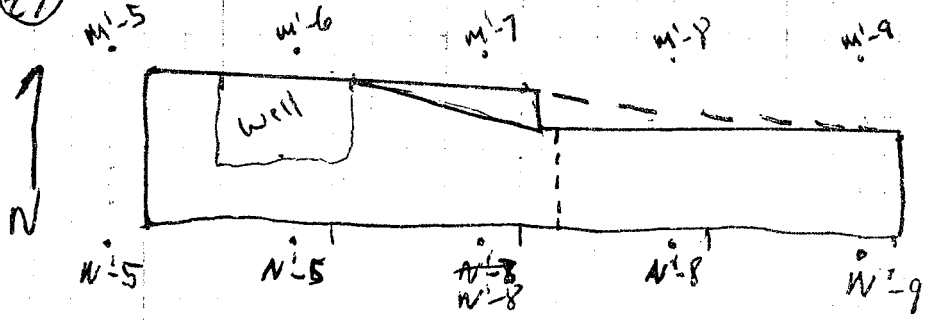
D - 7.91

A	-2.115
B	-2.17
C	-2.155
E	-2.02
F	-2.15
G	-2.115
H	-2.005

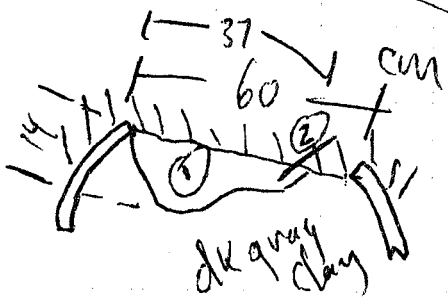
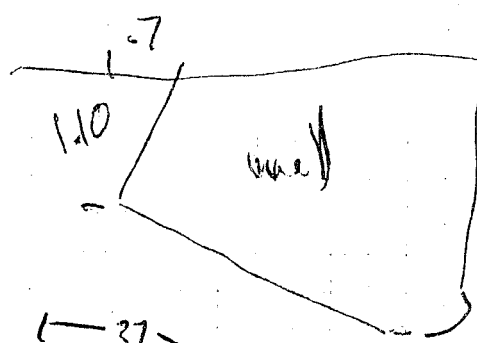
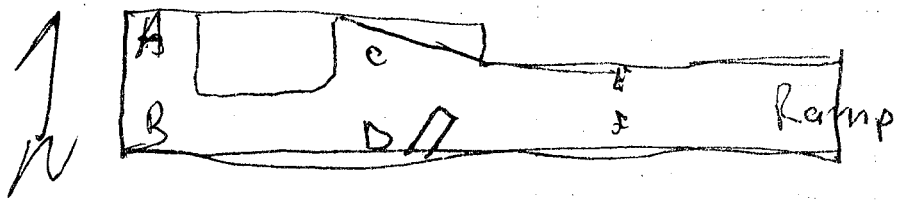
June 6 -
cleaning + sketching

- 19 pit marked "earliest" on pg. 21 seems to be just an upper level where it meets the lt. grey virgin as the bottom has left an unlevel floor - note different hgt between H & G, F & B
- however the 'grayish brown level might have some mixing of soils at this low level
- the lt. grey fine sand is either in patches over or with int. grey clay
- lowest 20% grayish brown over lt. grey also stained FeO₂
- #19-21 vol 2

27



well Trench for June 8 M'-5 to -8 + loc



- ① yellowish Brown Sand
- ② continuous up wall

See 29

- 17355 - cleaning
- ~~PZ-81-1837 Balk~~
- ~~PZ-81-184~~
- PZ-81-183B cleaning
- PZ-81-184B Balk
- PZ-81-182PL cleaning
- PZ-81-185DL Balk
- PZ-81-186B B₅14
- PZ-81-187T B₉14
- PZ-81-188M "
- PZ-81-189B "
- PZ-81-190T "
- PZ-81-191M "
- PZ-81-192B₅ "
- PZ-81-193T "
- PZ-81-195SS well
- PZ-81-186T Balk
- PZ-81-197PL Balk
- PZ-81-198S "
- PZ-81-199PL "
- ~~PZ-81-190~~

June 8

Start clearing the well trench
1st Battala cleaning level
cleaning also in well

1774

- ground is soft and moist
width was 3.20 - extended
to wall to well 2.30



- Bark being taken down as well
- 1 Red Figure etc
- Terracotta Bricks

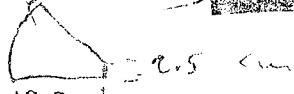
FBW-81
CP 1211 = 2
23, 26, 27

- Slow going
- Charcoal and decayed vegetation
- Bark 50 E 1.50 E approx



June 9

- Continue from yesterday
- found in well - cleaning
Brown column section



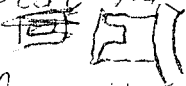
- Depth of well head 46.3 cm

- cleaned to Dugway clay
- Int. Dia. 56 cm towards center of well head

- center of well left high - stones

- in Bark most Bricks approx 1.5 to 2 m. below surface

- Six end under Bark - 2 water worn stones and spout



- photos of well - Brown color

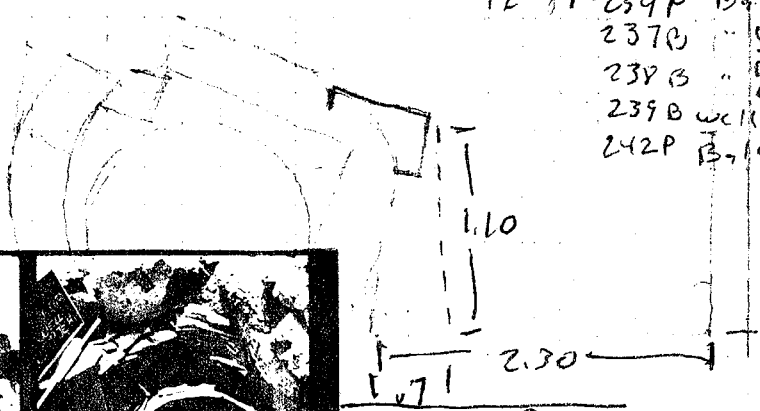
(29)

PZ-81-210 PL well
 PZ-81-211 B "
 PZ-81-212 m "
 PZ-81-213 T cleaning
 PZ-81-214 PL Bqk
 PZ-81-233 m well

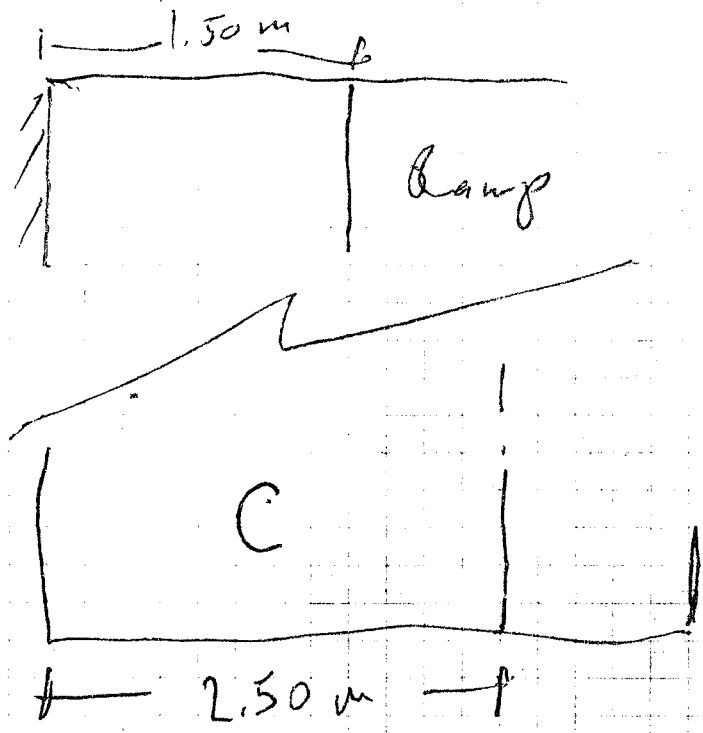
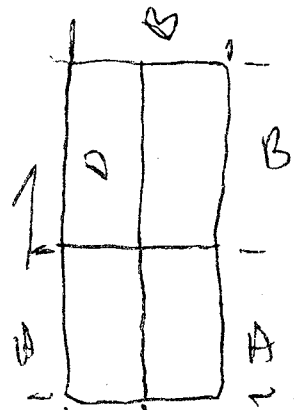
PZ-81-204B - Ditch
 PZ-81-203 PL "
 PZ-81-215S Bqk
 PZ-81-216 PL well
 PZ-81-217 PL "
~~PZ-81-218 PL~~
 PZ-81-234P Bqk

Bqk
 " "
 " "
 " "
 " "
 " "
 " "

237B " W
 238B " W
 239B well
 242P Bqk



FRW-81
 CP Roll 2 30-31



PZ-81-234 Bqk
 PZ-81-235 T Bqk
 PZ-81-236 B - D4Cr
 PZ-81-237 Bqk
 PZ-81-238 Bqk
 PZ-81-239 Bqk
 250 PL Ducting
 256-B "
 287B "
 311P "
 314P "

- (30)
- Taking the well int. down measurements below top of well head

(47.5) Beg. depth
44 46

- Just below top of second well ring
- Coin at ≈ 0.58 m W. center of well = penny
- Broken grinding, stone

June 10

Continue taking down Balk + well

- Bones in Balk lower half N-7

In well (B) A = .67 m C = .60
(C A) B = .665

Water level .79 below well head

- Very few finds - some tile + coarse fine ware - few pcs just above water

Return to 17A to finish unexcavated area - see p. 25

Lgi. Dump ~~base~~ neck on J-1 / K-1 line
 ≈ 1.50 m west

~~east~~ west side J-1 / K-1 2.5 J 5/4
light Olive Brown - but very mottled
overlying to J-1 4/2 Dark grayish Brown

- Deep Badfuda + Dump W. side

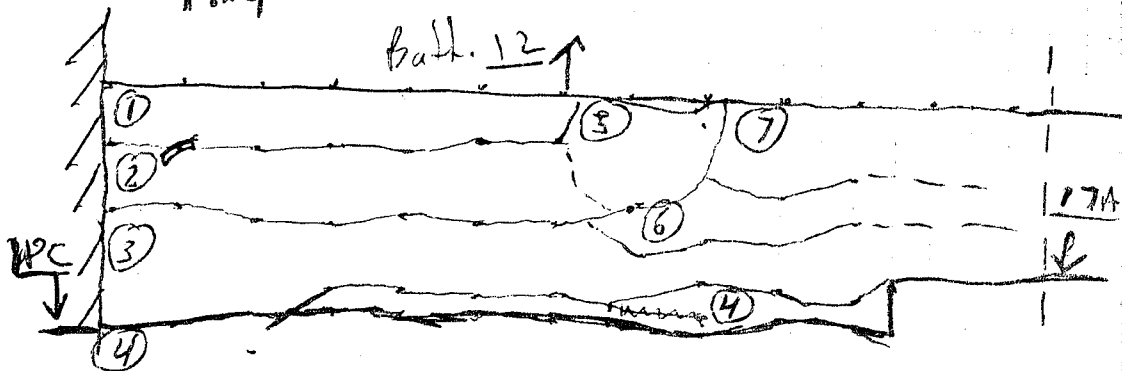
- Olive Brown appears to be a lens extending
out ≈ 1.20 - ~~west~~ east by ≈ 22 m south (NB ~~Corner~~ Corner)

- Refer to p. 26 - measurements for 17A
D - 25.00 = -1.91

(30)

1.204

ball. 12 ↑



- 1) very fine silty sand, fine gravel (possibly 2.5y 1/2), brownish grey (very dry) identified as yellow in early notes
- 2) clay / sand, less gravel (almost none), grayish brown, 2.5y 5/2 (very dry), mottled, some charcoal, mottled w/ 5YR 5/8 yellowish red (FeO₂?)
- 3) very fine clay like sand, 10YR 4/2 dark grayish brown, charcoal, TiO₂, coarse in abundance
- 4) mottled clay, 5Y 6/1 grey / H. gray, bottom layer, sandy patches
- 5) lg. concentration of lg. stones & lime
- 6) 2.5Y 4/2 dk grayish brown, heavily mottled sandy clay
- 7) 10YR 5/3 brown fine silty sand

- The difference between 1 & 2 is hard to discern
 - in conjunction with 5 it looks like a pit or filled in depression

- The differences between 3, 6 & 7 are also hard
 There is a similar matrix & kind type but ~~there~~
 there are color differences

- 18C is the area of the potential (31) pits

- grey clay inside first pot, pit sand mottled as elsewhere outside

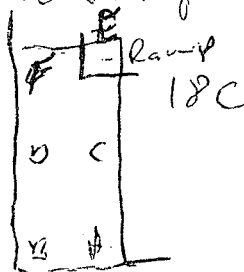
- The yellow and Olive Brown seen together seen together - Batt. 12 (p. 46) maybe another pit ~~etc~~ with yellow overlying Olive brown

- The line of Rock and Tile (#2 p. 25) is completely eliminated and the soil is down to virgin in the S. end in this Battuta

- grey clay / sand difference probably just a patch as there is sand also on side the potential pit.

18C - 1294
255 PL
262 PL
263 P
281 P

- 5/4 ^{grey} dense in SW corner under layer of small rocks & tile - corresponding to the pit seen there in the last Batt.



A)	2.320	10 Se	-2.265
B)	2.365	" Se	-2.27
C)			-2.22
D)			-2.17
E)			-2.0975
F)			-2.12

- Coarse, little fine wave

- all finds from 18C are from the same level under the tile & Rock Concentration it is hard to differentiate the different soils especially if there were a series of pits or filled in depressions

- 5/4/1 in North ~~part~~ ^{to HALF} under Olive Brown
Dk. grey

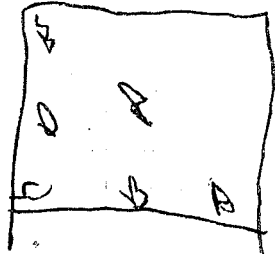
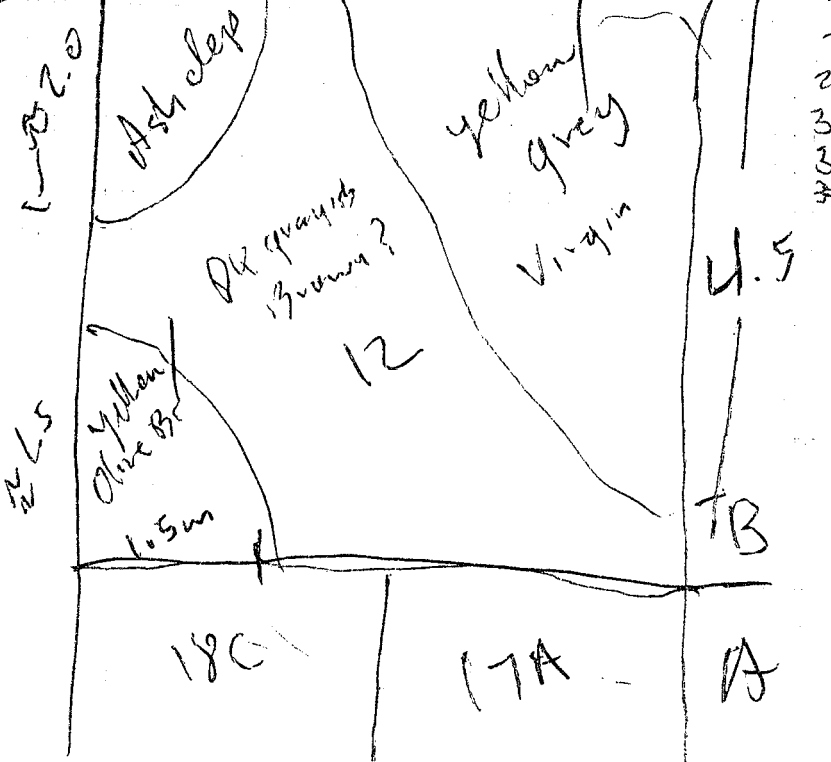
Top of BB

Not to scale
4.0

(32)

New Ramp

- 285 W
- 286 B
- 294 PL
- 313 P
- 317 T
- ~~318~~



- A) -1.465
- B) -1.495
- C) -1.485
- D) ~~1.84~~ -1.39
- E) (18.9) -1.31
- F) -1.42

30855
321 P/W

- 300 P N.
- 301 P "
- 302 P "
- 303 B "
- 304 A "

- 305 P W.
- 306 P "
- 307 P "
- 308 P "
- 309 P/W.
- 310 P Jcl. 01
- 312 P N.
- 315 P N.

189
58
1.31

- 275 PL Ash tols gr
- 276 B yel tols gr
- 277A "
- ~~278~~ 279 PL " "
- 280 P -W.
- 288 P S " "
- 289 B " "
- 290 PL " "
- 291 P " "
- 292 P " "
- 293 B " "
- 297 P W.
- 299 T W.
- 298 PL N.

June 11 341 PL 320P 260m 250P 252P 253 PL 33
 330P 250P 251 PL
 13-17
 245m
 246P
 252B

Finishing 18C - Veneil + Ramp - 322.P

- From 18C - lg. coarse wave, coarse wave Amph. shells, some grey wave + black glaze

Move to sect. B I-1/341

digging under Ramp.

- Finds from Du. grayish Brown level equivalent to Bath. 12 under Ramp
 - also from yellow

- Coarse waves are in good abundance in the Du. grayish Brown whereas the upper lighter (yellowish) level has the fine & coarse mixed

- Ramp taken down through Bath. 12
 - some mixing W & S

- What I have been calling the DK grey and DK grey Brown from the Veneil is actually a deposit of Ash, charcoal and coarse wave the coarse wave sits at the base of the pocket

- The yellow sits over a DK brown layer the Ash deposit is dk. grey

- Top of 13B

- 13B in SE 60m W DK grayish Brown

- first cultural level sits on top of grey mottled yellow - stink level (see pg. 23)

Section

266P Ramp pit / to DKar. 5

270B " " " "

290P " N. Ash & Ceramic

267 PL yellow. ol. Br to dk. Gr

268 P " " " "

269 PL yellow. ol. Br to

271 PL DK gm Br

272 B Ash - white - gr

273 PL yellow to DK Br

274 PL Ash / DK gm

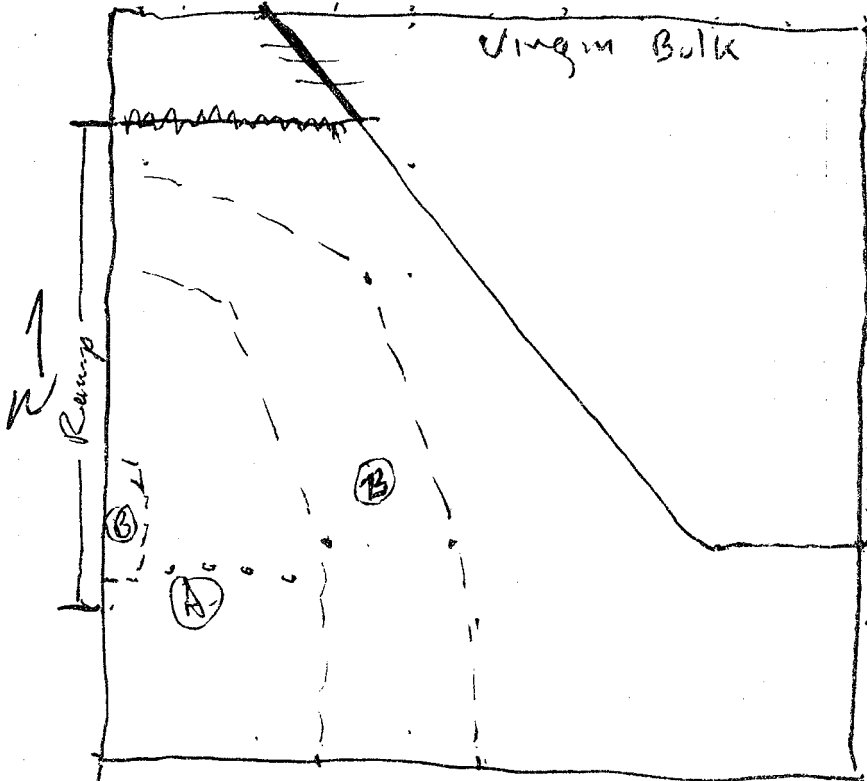
34

H 1 m - 1

Batt. 13 B

242 T
244 PL. SE.
244 P
261 B
271 B^{SE} Ditch side
316 T East
320 B west
325 B
338 P ground / west
339 PL " "
340 P " "
341 P " "
359 P " "
356 P " "
375 P SW side
380 m " "

Virgin Bulk



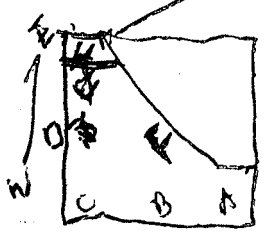
A) 2.51 5/2 - mottled

Charcoal

B) Coarse, rock deposits, fine wave
- Ceramic Deposits -

clayey sand

H. 1.0.62



- A) -1.59
- B) -1.65
- C) -1.64
- D) -1.44
- E) -1.47
- F) -1.58

June 12 - 335P, 409 PL, 416 P, 415 PL, 418 P
520 P

(35)

Batt. 13B

- West $\frac{1}{2}$ 7.5 y $\frac{5}{2}$ greyish brown
predominant - mixed
- Ceramic deposit turning up $\approx 2m$ Ex
.60 W
- 107R $\frac{4}{2}$ - dk greyish brown - mixed up
soil around deposit
- Many finds found on 5 y 6/1 - grey
layer (not uniform - mixed slightly)

Batt. 14B

- East side another ceramic deposit.
- Taking out ceramic under 13B separate
(see B) p. 34)
- new deposit in SE in dk grey Br.
- From these last two levels there is
some really poorly fired grey ware
- Bags labelled west $\frac{1}{2}$ are primarily from
area of deposit (13B)
- new labels dk grey are from deposit
There may be mixing however
- New Deposit (B) p. 36) sits on virgin
see p. 23.
- west side center $\frac{1}{2}$ 1.5 East is articulated
leg bones - part of old deposit
- Bones - incl sloping to west
- Destroyed by Dumper

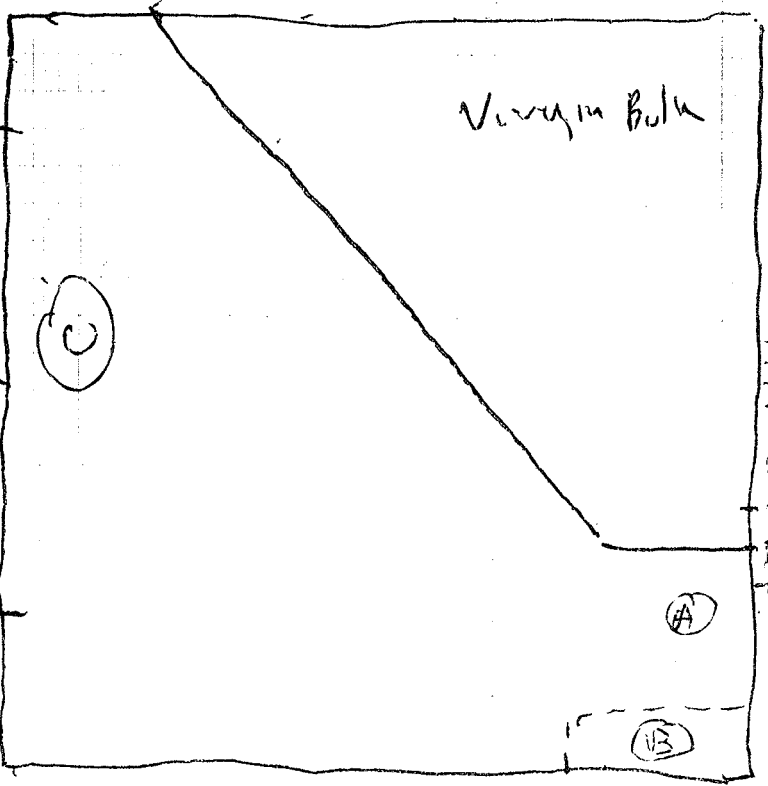
285B PL 4 (west)
~~320 PL~~
511 P W IN

36

Batt. 14B

1-1m +

381 PL Pe. qu. Dep w 1/2
 382 PL " " " "
 388 P Cer. Dep
 393 P SE. Dep.
 394 D w. Dep./De qu
 396 w. qu. Br/De qu.
 397 M w. Cer. Dep.
 399 w. new Dep
 405 P old Dep (uncer.)
 499 P Cer. Dep
 499 P Cer. Dep



- A) Virgin
- B) - new deposit of Ceramic
- C) Continuation of pit + articulated Bones



A) 23.05 - ?	-1.685
B) 24.05	-1.785
C) 24.30	-1.81
D) 23.35	-1.715

336 P w. 1/2 qu. Br
 361 P Cer. Dep
 362 T " "
 363 T " "
 359 PL " "
 366 B w 1/2 qu. Br
 367 M " "
 368 P Cer. Dep
 369 PL 1/2 qu. Br to 1/4 qu
 370 B " "

372 M 1/2
 373 D Cer. Dep
 374 P 1/2
 376 P Cer. Dep
 377 PL w. 1/2
 378 D 1/2
 379 M "

Batt. 15B S19P (14B-15B)

(3)

SE - Virgin
SW - DK grey Brown

- Deep on west side
- Bathing condensed in Ramps area
- Ceramic deposit (west deposit) continues through 14 + 15 on west side

June 15

Batt. 16 D

above Concentration 2.5y 5/2 grayish
Brown - mixed slanting south in trench
well SA/clay

within Concentr. 2.5y 4/ Dark grey st/clay

Under is 5y 6/2 the olive grey - Virgin or
almost virgin - clayish

- 15B T60 ~~Coarse~~ Can = (1)

- 16D Siene grey to Virg = (2)

- Send 10 J12 5/1 grey in Send at 16D
- over the grayish soil (?) - soil standing
to south 5 Clayish - silt

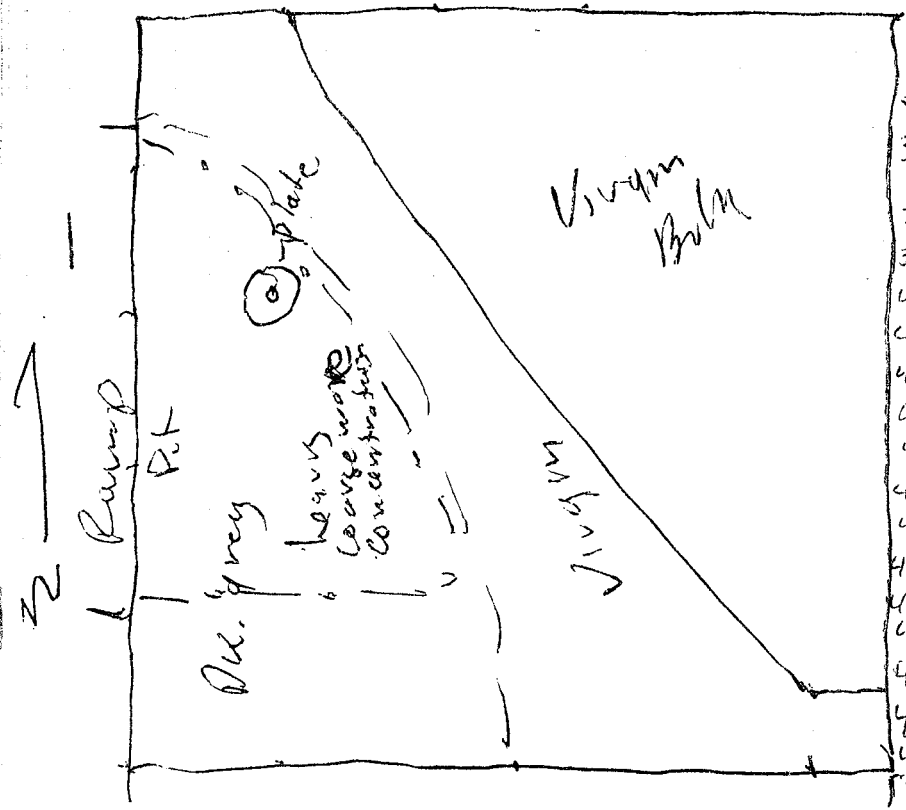
- Trench corrected C + D 2.30 from East
well on Base of Batt. 16D Sand lg. Rocks & Stones

- 16D trench w/ 18c

- 16D mid - W. end (burn edge of q. Br.) gr. Br. to Virg (3)

- (4) ~~to~~ Ceramic Concent.

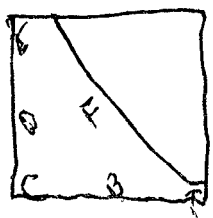
1 m



- 332 B gr or Dugr
- 337 P w. cer
- 343 PL " "
- 371 P w. cer. Dep.
- 389 m w 1/2
- 390^B w. cer. Dep.
- 391 B New Dep.
- 392 B gr. Br/Dugr
- 402 B wdep
- 406 PL w. cer. D.
- 407 P " "
- 408 T " "
- 400 T w 1/2
- 411 m " "
- 412 PL gr. Br/Dugr
- 413 PL w. dep
- 414 PL w. cer. Dep.
- 414 PL " "
- 417 P w 1/2
- 477 B
- 419 PL
- 532 P w 1/2
- 602 P
- 613 T w. cer. Dep.

clayey sand

11.10.02



- D) 24.65
- B) 25.80
- 26.00
- A) 24.75

- 1.845
- 1.96
- 1.98
- ~~1.82~~ -1.735
- 1.82
- 1.855

2.4165
 .62
 1.845
 25.8
 .62

Je

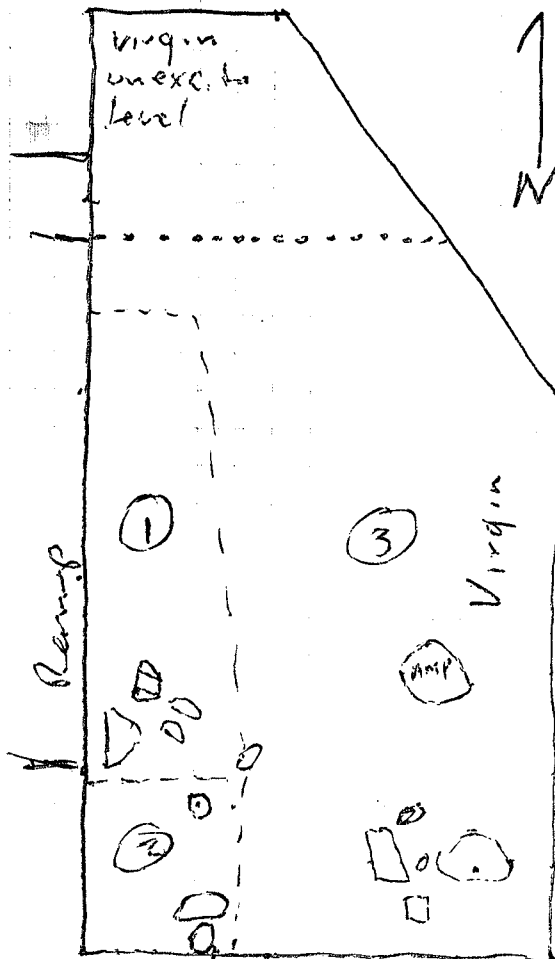
Batt. 160

1 km

15-Je

35

332 B qn or
w. cer
337 P w. cer
343 PL " "
371 P w. cer
Cer. Dep.
389 m w 1/2
390 B w. cer. Dep
391 B New Dep
392 B qn Br / Dep
402 B w. dep
406 PL new D
407 P " "
408 T " "
410 T w 1/2
411 M " "
412 PL qn Br / Dep
413 PL w. dep
414 PL w. cer. Dep
414 A PL " "
417 P w 1/2
477 B
419 PL
532 P w 1/2
602 P
613 T w. cer.
Dep



- ① Ceramic Conc.
- DK qn. - clay like
- ② qn. Soil & clay like
- ③ Virgin slands SW

12-Je
J-1 w. Ceram. 286 B
~~Arg. Br 287 B~~
319 B

327 P w. cer.
328 B cer. Dep
329 B " "
331 B " "
342 B south qn to Virgin
344 PL w. cer (labeled)
16 B
345 P " "
346 P " "
347 P " "
348 P " "
349 P " "
350 P " "
351 P " "
352 P " "
353 P " "
354 P " "
357 P " "
358 P " "
420 PL Sand
421 PL " "
422 PL w 1/2 qn Br to Virgin
423 PL Cer. Conc.
424 PL " "
426 PL " "
444 P " "
454 P " "
588 B qn Br to Virgin

735



A) -2.085
B) -2.1075
C) -1.945
D)
E) -1.89

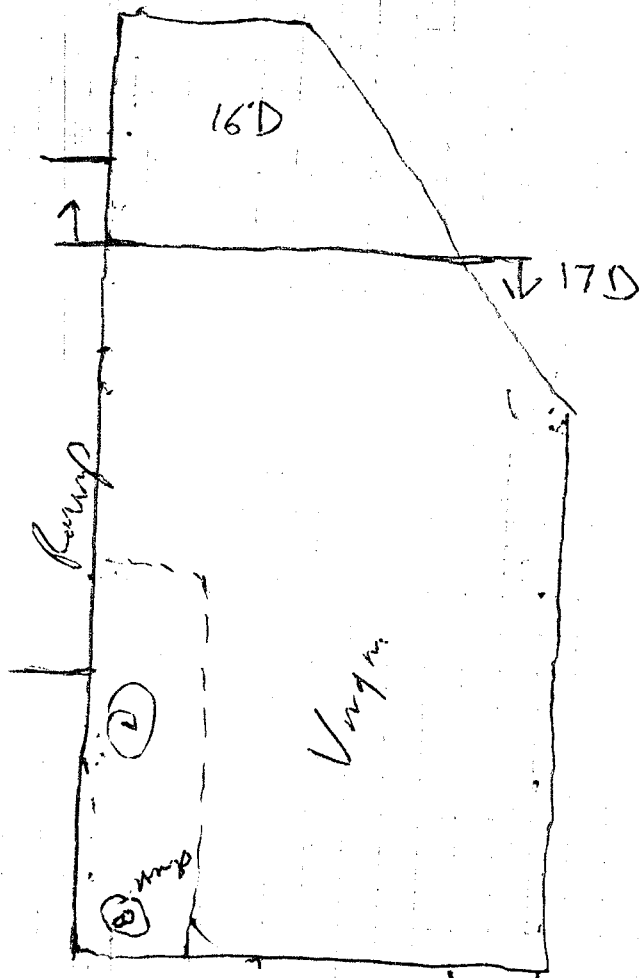
651 P J-1 Cer. Conc

(40) Bath 17D

15-2

A	-2.093
B	-2.114
C	-1.943
D	-1.965

427PL
4801B



1) Most material from here
Base soil SY S11 clay above Virgin

- 1.116
Rem

- (5)

- 17D

- 2nd
on 16
- Dk
to

Volcan

west wall

(1)

(2)

(3)

1/4 = M

- Clean
For

Pizzica

Summer

1981

Survey

Field Notes

Book

- 2.093
- 2.119
- 1.443
- 1.965

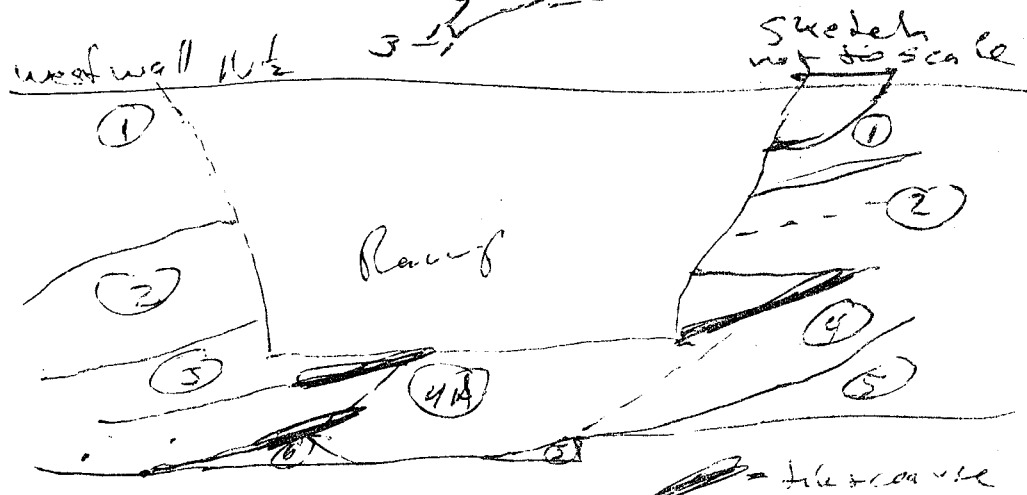
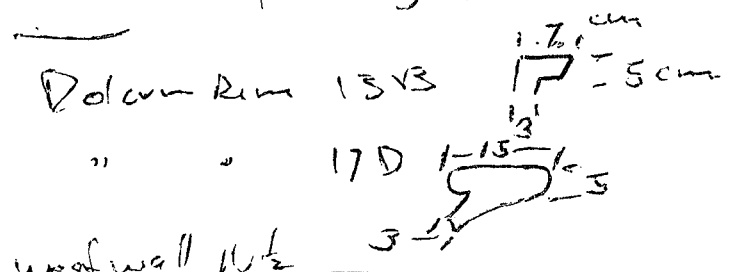
- Little fine mostly stoppage reason
Rem tiles

- (5) Bath. 170 to Virgin

- 170 is to Virgin - not complete even depth

- 2nd small concentration noticed S level
on 16 → 170 west side

- DK grayish Brown soil to Virgin
to DK gr. Sy S/I



4A = Major Concentration

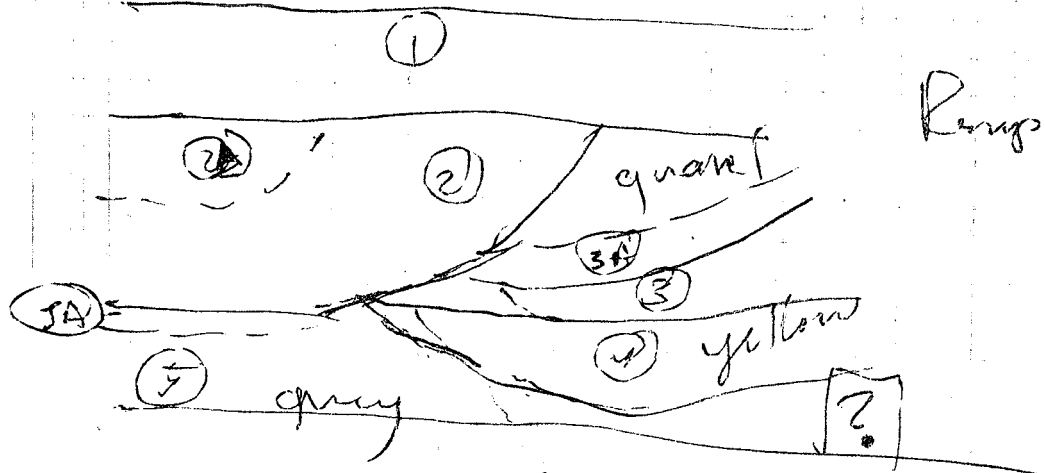
- Cleaning new course No W ad Trench
For new Trench

Jim

(112)

3 cicles not for scale

Center west



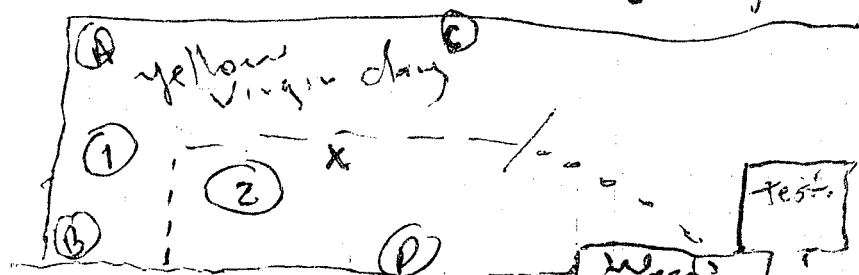
Bill 1

hill

x = long bridge

not for scale

1 clay / sand
2 sand + gravel



road

ramp

test

West
ext
W-S
Trench

(1) 2.54 6/6 blue yellow
 (2) 7.05 yr 4/4 brown
 dk. Br.

- (A) 1.48
- (B) 1.0525
- (C) 1.745
- (D) 1.40

2.32
 1.22

 1.10

June 16

(43)

cleaning area NW of Trench (W. ex.)

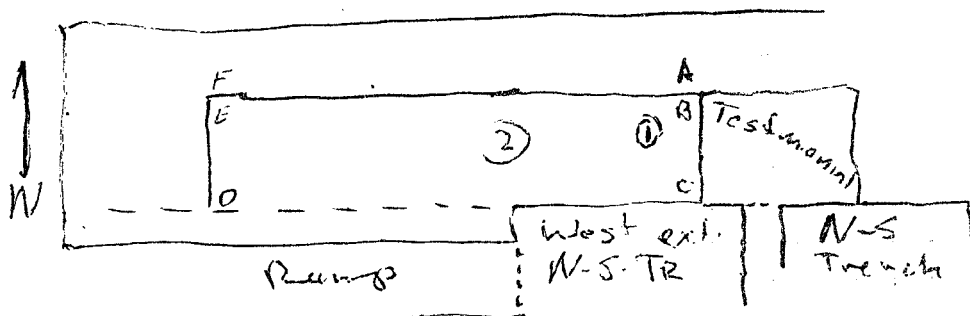
First Battuta - cleaning to find
Archaeological level

431 PL
476 T
555 M
646 M

Some material in gravelly layer

Battuta 2 to Arch. level

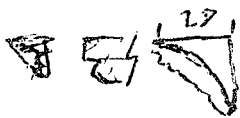
Not to scale NW Trench



- A) 0.66
- B) 0.72 (Some BM)
- C) 0.70
- D) .8375
- E) 1.1125
- F) ~~1.370~~ 1.48

- ~~431~~ 432 PL
- 643 B
- 644 B
- 645 BM

- Column Capital Ionic

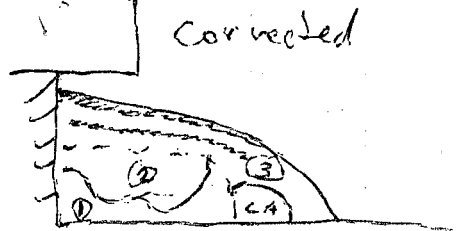
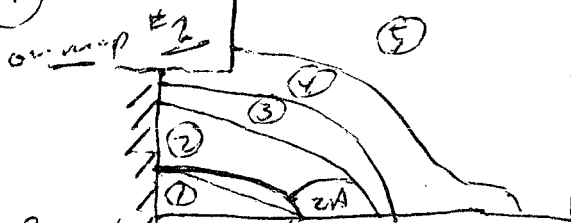


- ① ~~1.48~~ yellow sand relay
- ~~1.48~~ BK brown str
- ~~1.48~~ Brown str & gravel

- in NW corner - pocket 40x30 mottled yellow & BK Br. soft, sand and small gravel

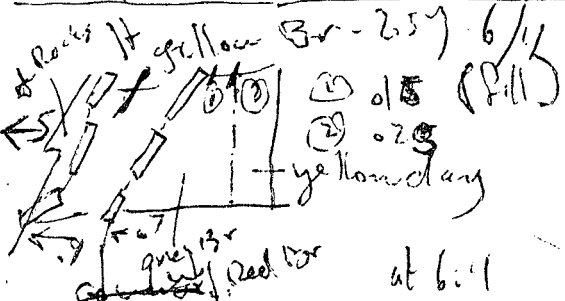
- ② ~~1.48~~ yellow
 - ~~1.48~~ grey br
 - ~~1.48~~ Br.
 - ~~1.48~~ Br w/ gravel
- } culture's materials
mostly here

(14) ~~East~~ West side at Testimonial



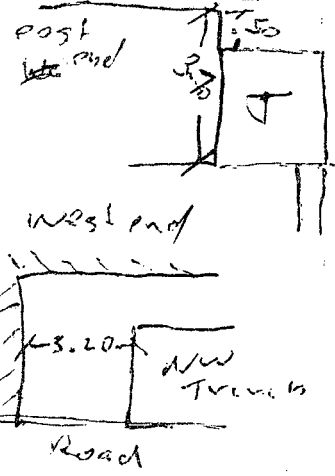
- ① yellow sand virgin - .8
- ② mottled yellow, grey
- 2A Di Brown - same seen in floor (#1 p43) - 1.2
- ③ grey & Ash - 1.4
- ④ Br. w/ gravel - 2.5
- ⑤ qu. Br w/ gravel - wash - 3.7

- grey Br. #2 (p. 43)
is rich Br. red brown patches



① 5yr 5/8
Corrected yellowish red
SA

on wrap #1
Tile Fall



- grey ware, coarse & Tile, 2 grinding Stone drag
- I think the tile fall means the line at the Dumping
- At the edge of the tile fall (west end) a mottled yellow curves down to SW

June 17

(the guy handed
name to Cavell)

45

Finish Butt. 2 W. Trench



(2)

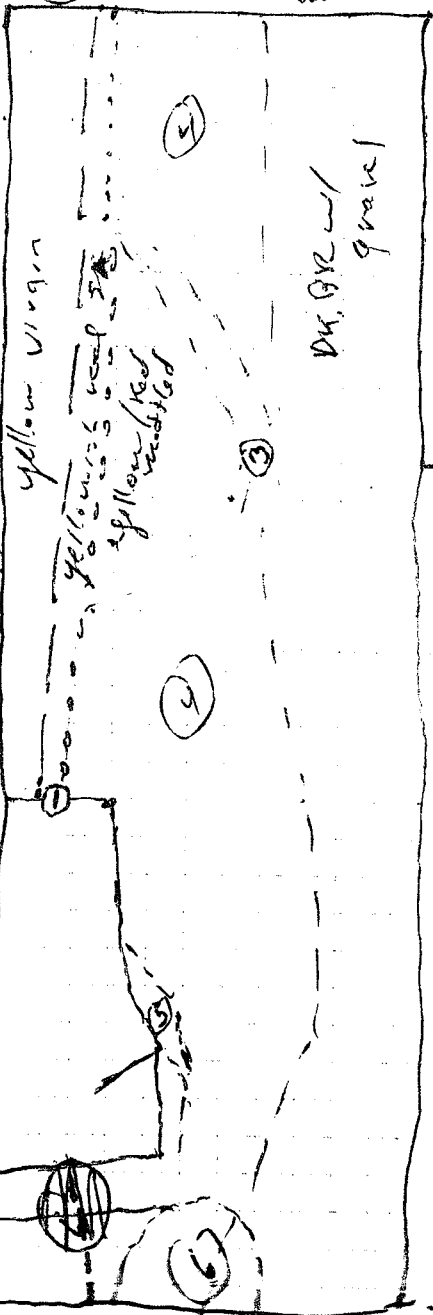
1-10m

- (1) p. 44
- (2) p. 44

(p. 43)

W. ext
W.S. Trench

(3) yellow & brown
mixed/mottled
lt. gravel



(4) BR. SW
some gravel
yellow &
mottled yellow
w/ brown - some
as from Behind Ding 16 yr old Tiles

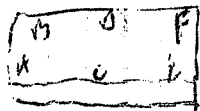
(6) - area of compacted by stone & tile

- 434 PL - (6) on imp
- 435 PL - Tile fall
- 436 PL - "
- 438 PL - on deep Tile fall
- 452 T (6)
- 453 T - in fr. Tile fall
- 647 B - Tile fall
- 648 M - intr. Tile f.
- 649 T
- 650 M - Tile fall
- 653 S

46

Ball 3

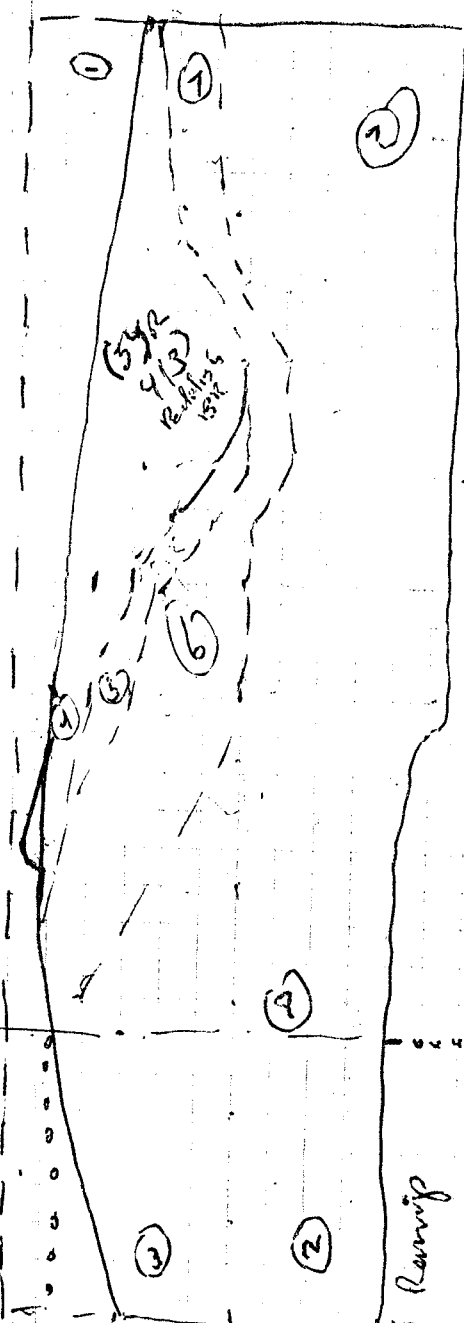
← N



- A) 18.2 .6675
- B) 18.4 .6475
- C) .8025
- D) .7275
- E) .9175
- F) .6655

[w. exd.
N.S. Str.]

- ① yellow Viny m
- ② BR SA w/ gravel
- ③ yellow / brown
mottled
- ④ Red BR ft
- ⑤ BR SA - 7.57 5/4 BR
- ⑥ yellow BR
- ⑦ many levels - mottled
- ⑧ burnt area cooled. Hard to



- 437 PL Br. SA. w/ grav. w 1/2
- ~~438 PL~~
- 440 PL S 1/2 BR SA
- ~~441 PL~~
- 441 PL W 1/2 Red Br.
- 442 PL W 1/2 Yel / Red SA
- 443 PL N 1/2 Lt. Yel.
- ~~446 P~~
- 652 M w. exd. Dh. SA
- 654 M S 1/2 BR SA
- 655 B3 Red BR
- 656 P Yel. Soil
- 657 B BR. SA
- 662 T " "
- 663 B N 1/2 Red Br
- 664 B W 1/2
- 668 B Yel. N 1/2
- 673 M Red Br
- 676 T BR SA
- 677 SS
- 683 M W 1/2

- Brick from column 21.5 cm. Red
4.5 thick

- Tile fall + Stone concentration removed
separately - see collectibles

Batt. 3

Start at west end Dow Drwyer
- BR. SW w/ gravel

June 18^{439 PL} - Batt. 3

- BR SW w/ gravel S. 1/2 [10712 4/4 On yellowish BR

- yellow sd + Red BR SW w 1/2
2.5y 6/4 LL yellowish BR

- on map #6 & #3 maybe related
4 & 5 as well

- as it moves east the Red Brown becomes
progressively browner

- Red Brown - darkening out under this Batt.

Batt. 4

in this Batt. east end Red Brown
really slanted east to south
and yellow reached under gravel at the
edge of Trench - south

(48)

Bed 4

K 60

general
at 11/2 50's

- ① Red Br
- ② yellow w/
gravel
- ③ patch on top of
Red Br - 2.5 y
E/W 10 olive Br.
- change 1309's

- marked ~~knobby~~ yellow
- patches of
deeper yellow
- ④ Tile Contact on
yellow = (Tile Fall)
angle almost
horizontal slight to
East & South
- underneath -
mottled soil
- grey clay patches

A	5375
B	5075
C	5225
D	4875
E	5925
F	54

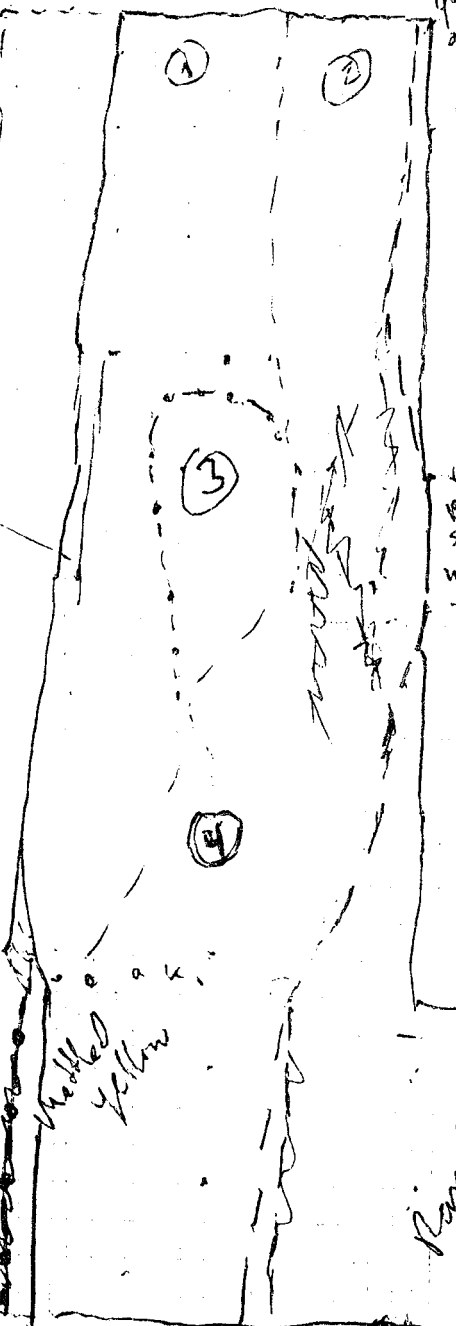
- 548 B w end
- 580 B w end
- 587 M
- 584 T w end
- 607 M
- 611 M
- 446 PL E. end Red Br.
- 447 PL BR SA w/ gr
- 658 B Red Br
- 658 B -11
- 665 S BR SA
- 666 M Gel. Br, w end
- 667 B BR SA
- 669 M Gel. w/gr

deeper
end

slope

west end

ramp



Ung

mottled
yellow

BR
SA
w/gravel

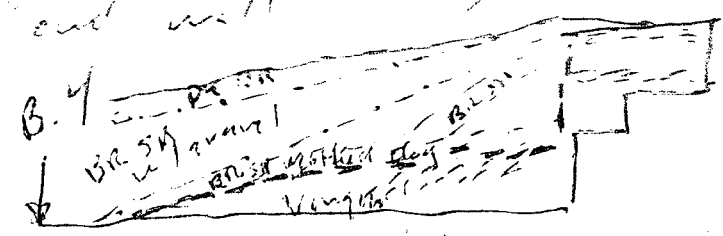
- Red Br - redder near interface
PCS at channeled wood
- grey wave only line
- under red Br at changeover almost
end to mottled yellow - grey clay
patches - mottled burnt areas
to 3-4 meters east
- in gravelly layers - less gravel at
west than east
- most finds in bag marked mottled yellow
brown from east edge of west end
of changeover - area mentioned above



June 19 - B. 4. 4 - end 2825
GPS

- west end of B. 5. 1. in gravel - couple
meters
- = 1 = 2.5 m of ... - variable
- = 2 = 2.5 m of ... - variable
- center to west under
- at west end the mottled yellow
has patches of grey clay

west end well



- Geop. 46 # 8 - reddish patch 1 per under
clearly defined - photo

couple Brs found
- mostly grey wave

50) Badd. 5

Test. K km

- ① Red Br
 - ② yellow SA
 - ③ BR SA, w/ gravel
 - ④ Mottled Bunt
 - ⑤ mottled yellow
- w. ex. N. S. Tz

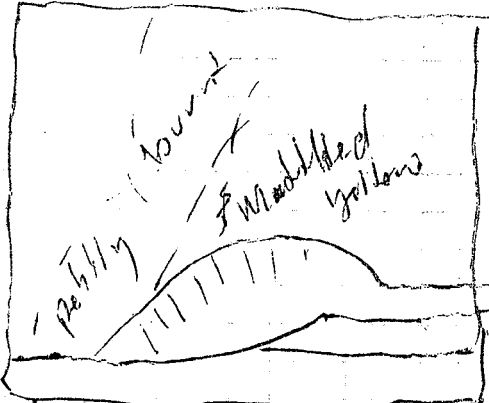
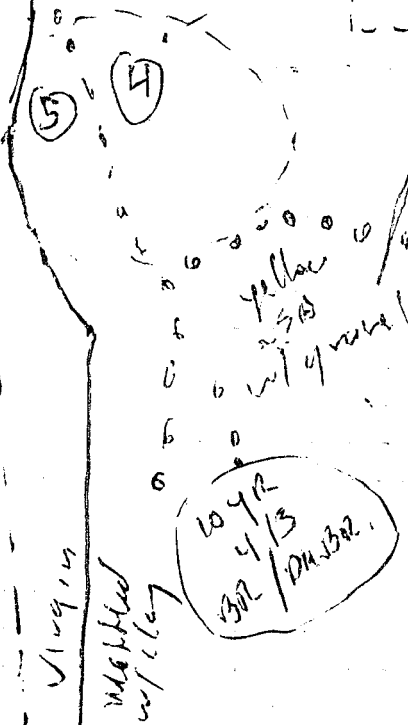
AS
C D
E F

384 m mottled Bunt
 386 B " "
 399 m Red Br.
 403 B " " 0325
 472 m yell SA 4/0
 473 B " "

- A) .37
- B) .295
- C) .345
- D) .26
- E) 21.35
- F) 21.2

- ③ 474 B Red Br.
- 475 P mott. Bunt
- 482 T " "
- 483 A Yel SA
- 551 m
- 461 PL
- 601 m Yel SA
- 609 m Red Br
- 681 B

520
 2.135
 385



686 BS Red Br. east
 687 BS Bunt

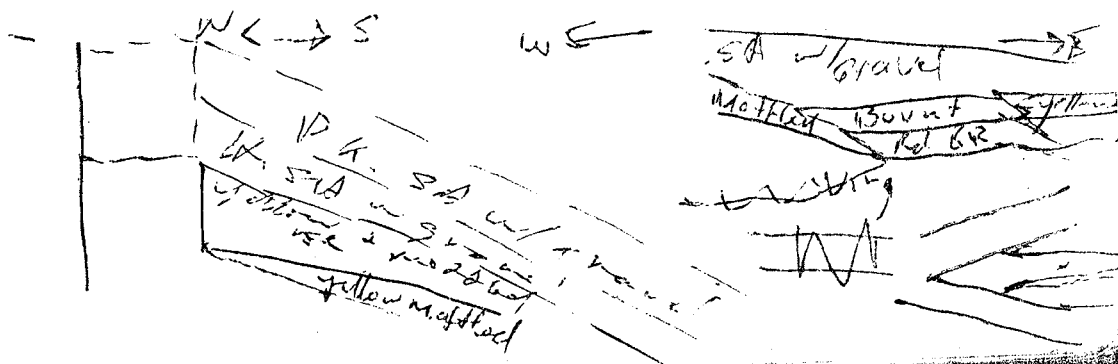
west end

Ramp



Batt. 5

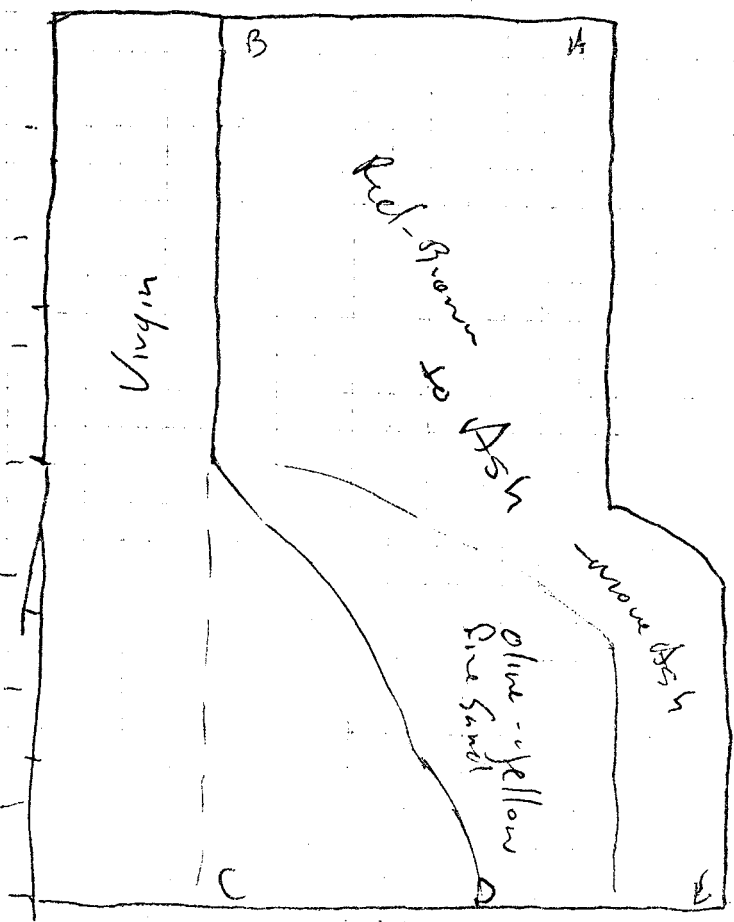
- much coarse + fine brown yellow
- Red BR soil becomes lighter more ash-y
- corresponds to ash. It grey area seen in W. profile of w. ex. trench
- Center of Trench - burnt patch & mottled soil - red, yellow
- Red Brown as it reaches this area appears as layers of different shades - burning?
- The BR (Red BR) maybe under the burnt patch - this patch appeared slightly in 3rd Batt.
- patches of grey clay
- Burnt patch may sit on yellow as well
- mottled yellow which appears on west end in upper Battoles - seen here standing west-trench (E B)
- the mottled yellow appears against yellow virgin - maybe in area where the soil slumped as in that area the yellow appears to slope out
Center trench ?



52

60_{mt} BATH. 6

not Covered Dist.



7.5 m

PM - 2.38

333 B Red Br	2.36	- 0.02
479 m "	2.35	- 0.03
481 B " / olive Y	2.235	- 0.145
596 m Red Br	2.355	- 0.025
608 m Red Br - olive Y	2.41	+ 0.09

Batt. 6

June 22

53

East end of soil red brown
with charcoal flecks - darker in W
- South end - Ashy

- Trench shortened 4m from west side
- Soil Matrix - sand w/ small gravel
- Much more unconsolidated today
- Fine wires, Bones

- West end of now abbreviated Trench
- Some parts still reminiscent of
Burnt area - to Virgin? - no
it is a fine yellow SA ~~with fine gravel~~
in id. 205 6/6 Olive yellow
- 684 P Red Br
- 698 m "
- 700 P "
- 701 m "

Batt. 7

SW-corner - Sand/clay much gravel
10 yr 4/3 - our old friend

Immediately thru Br. SA to a yellow
underneath

BR SA may be same level as Red Br

at the west end the difference in color & texture
between the Virgin & non virg. yellow is
hard to discern - pebble content

Batt 7.

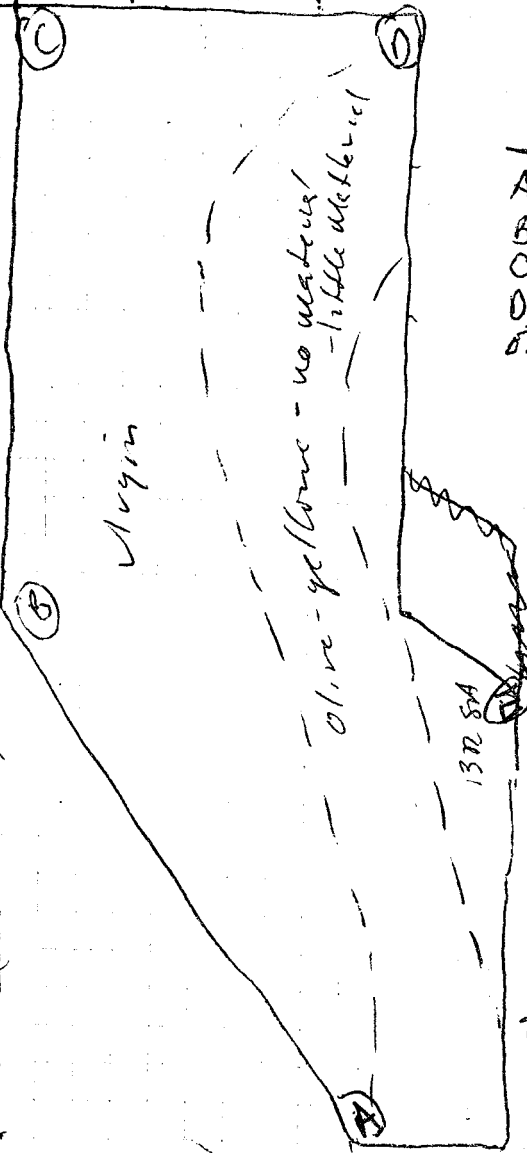
H7 - 2.38

(6)

1-1-1

- A) 2.635
- B) 2.56
- C) 2.47
- D) 2.57
- E) 2.715

- ~~450B~~
- 478M Presat w/g.
- 480M " "
- 537B " "
- 571T " "
- 575T " "
- 576T " "
- 577T " "
- 578T " "
- 6799S SW Corn.
- 687M BRSA
- 688B "



- A) .255
- B) .18
- C) +.09
- D) .20
- E) .335

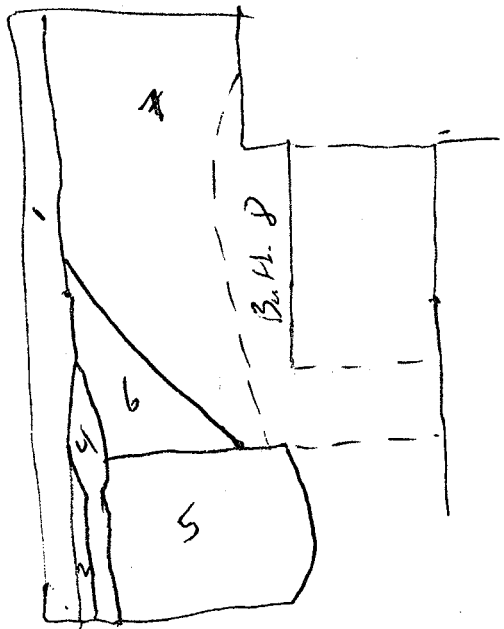
~~13R SA~~
~~area~~

Point Area

The BR-SA w/ gravel is the same as the so called Red-Brown at the east end - Dist tendency to clump

This Bathala sees it finished to virgin and olive yellow
- it is more gravelly at Bottom than in the upper levels

- Luigi - clay & sand virgin - Pliocene oceanic human habitation after cutting of river valley, flooding over human hab. & hill slumps & erosion



56

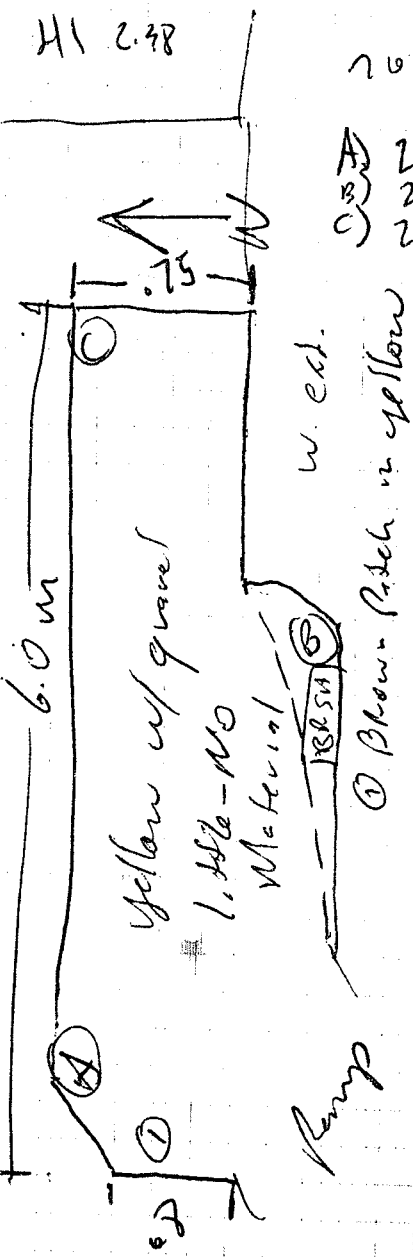
HI 2.48

not to scale

6.8

A)	2.90	-0.42
B)	2.16	-0.48
C)	2.76	-0.38

334 B 33.5A w/yra
 553 M " "



① Show Pitch in yellow

Buff. 8 - June 23

- West end - Brown patch under yellow - no finds
- BR SA - Charcoal - gravel material level. - mottled yellow and brown

Buff. 9

Finds from BR SA - heavy charcoal at bottom of level - East

West - 10 qR 4/4 Dk. yellowish Br. charcoal, Bones, clay like

- The rest of the bones of an animal some of which was found yesterday found today - edge of yell. Br. - Deer Patch
- some Pottery tile

- 7.5 qR 4/4 NW corner - Brown pottery tile opposite also stone sloping S and E.

The Yellow Brown sits over the Dark Brown layer which may be the upper part of the Ceramic layers in the West trench

- Ramp being put in old Ramp area

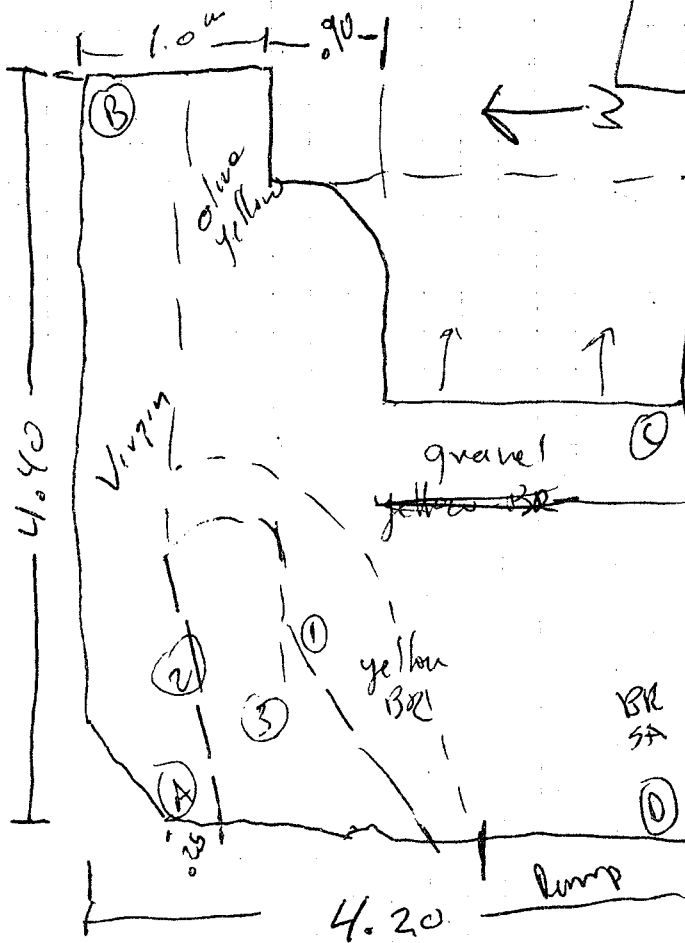
(59)

butth. 9

old
H.L. 2.38

new station

A) 2.77
B) 2.85
C) 1.4225
D) 1.435



connected
A) = 6.525
B) = 6.05
C) = 6.9

337 m	yel. Br - Coen
401 m	" " / vsn.
536 B	yel Br / Br.
548	
538 B	"
539 B	Ramp
540 P	"
554 m	E 1/2
692 P	
693 T	
696 m	

① Animal Bones & Tile + Pottery

② Soil - yellow, calcium dep, brown - mixed clay, silt

③ BR soil - Ceramic & Stone deposit

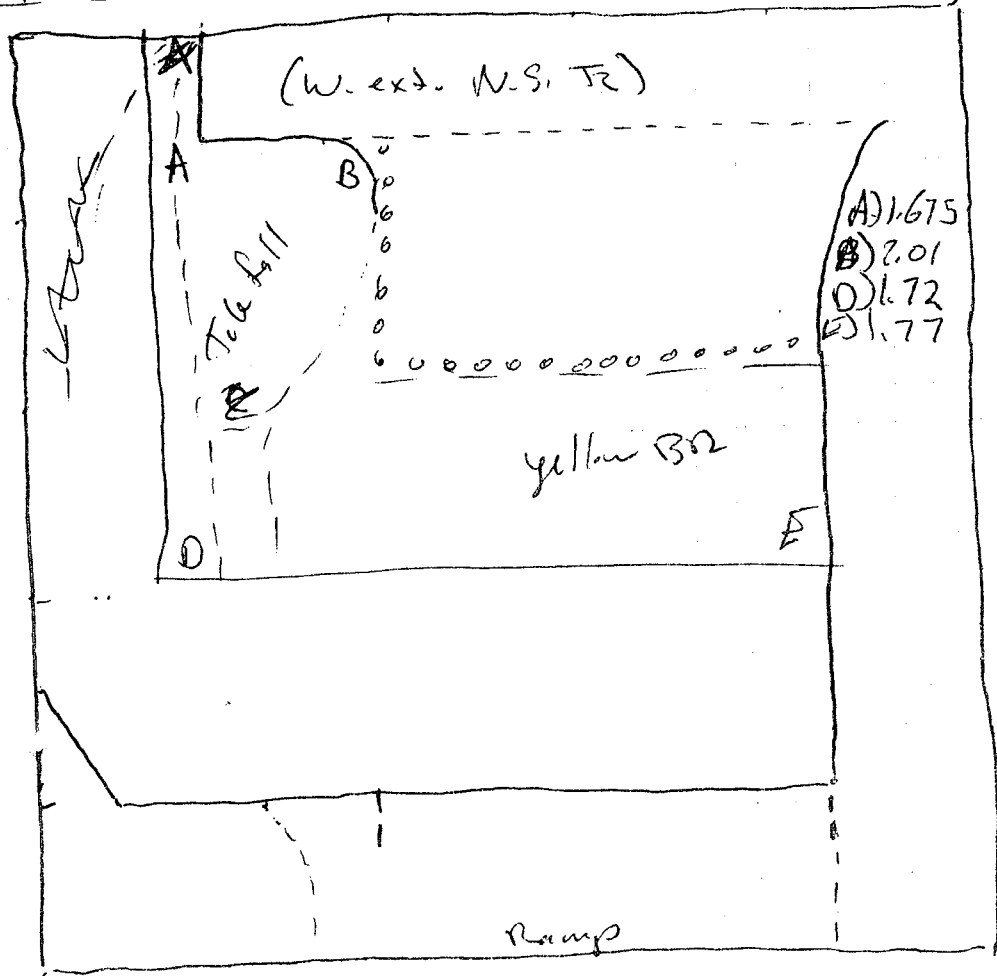
- yellow-Br - charcoal unch

Baff. 10

1-1

← N

(59)



- 7.5 ^{Brown} yr (14) - soil w/ Ponds W. side extends across trench where it connects with the top of the tile deposit in the west profile of W. ext TR

= to Tile Fall

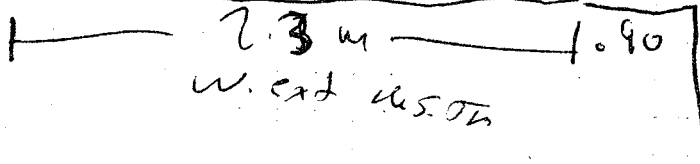
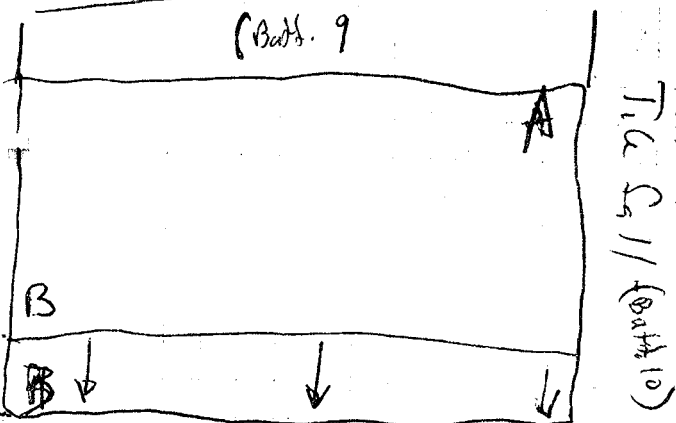
- 404 B W. side.
- 497 P " "
- 587 B " "

60

Bath 11 \xrightarrow{N}

(Bath. 9)

A) 1.83 | -1.00
B) 1.90 | -1.07



New H.I. 0.83

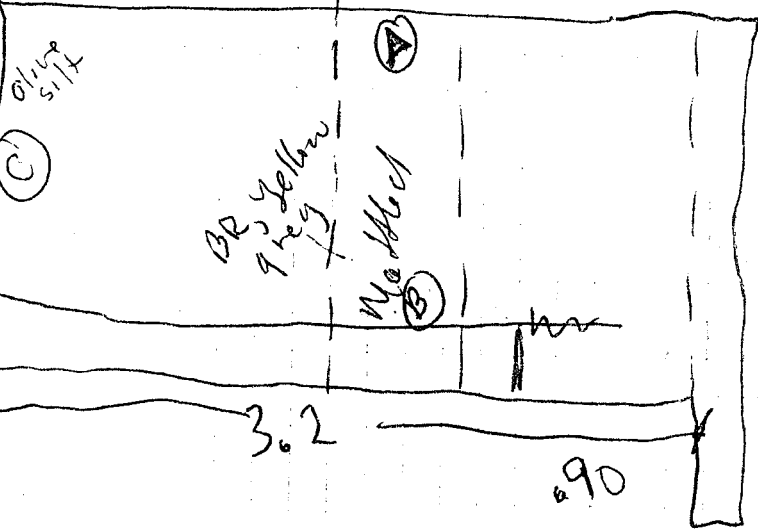
connected

A) -1.115
B) -1.23
C) -1.17

B. 12



A) 1.945
B) 2.05
C) 2.00



0
1.545

- it was decided to take the area down to the level of the tile or ceramic

- Soil just above tile fall - heavily mottled

- Soil of T. U. All - Dk grey w/ charcoal

Bath 11 - yellow-br - Darker S. end

- no photos

547 B - 2nd A

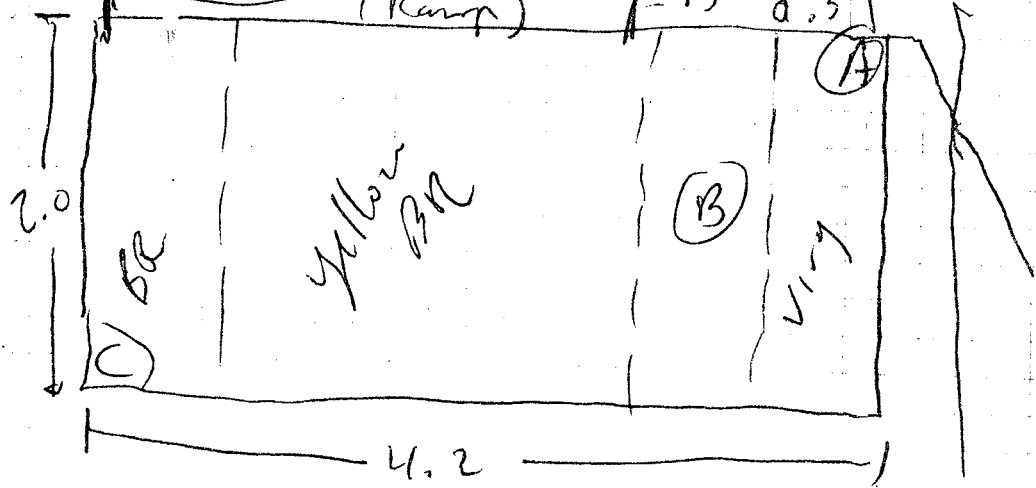
Bath 12

53 6/4 pale olive - sand
- on top of tile fall yellow / gray
+ charcoal

- Mottled is Ash layer

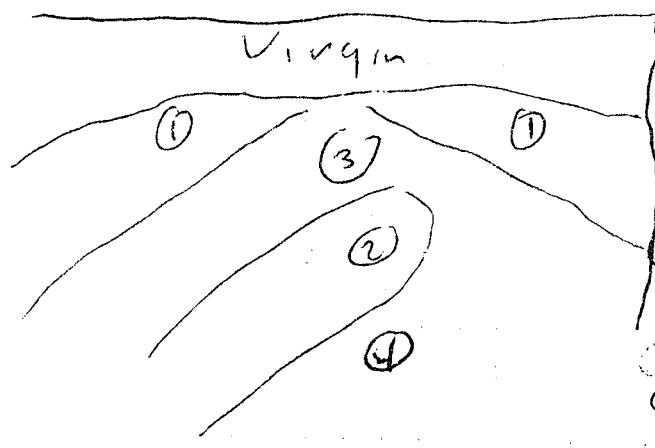
(62)

Batt. 13 (Ramp) \xrightarrow{N} west to str 4
- .3 - .3 -



(Batts 10-12)

- A) 1.665
 - B) 1.70
 - C) 1.77
- .75
 - .785
 - .855



- ① deposit smaller pcs
 - ② deposit larger
 - ③ closely compacted gravel
 - ④ heavily mixed & wuffed. Charco.
- ① - grey soil
 - ② - Brown

Beff. 13

June 24

535 B yellow Br (63)
 585 M "
 593 M "
 500 PL "
 501 PL "
 694 B "
 695 M "
 720 A "

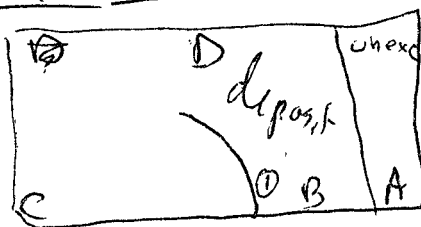
HI - 0.915

Just W of 12 - yellow Br N to B South
to tile

Cleaning & Photographing - 592 M
Ceramic Deposit 595 T

The soil just above and mixing into
the deposit is heavily mottled and contains
small gravel

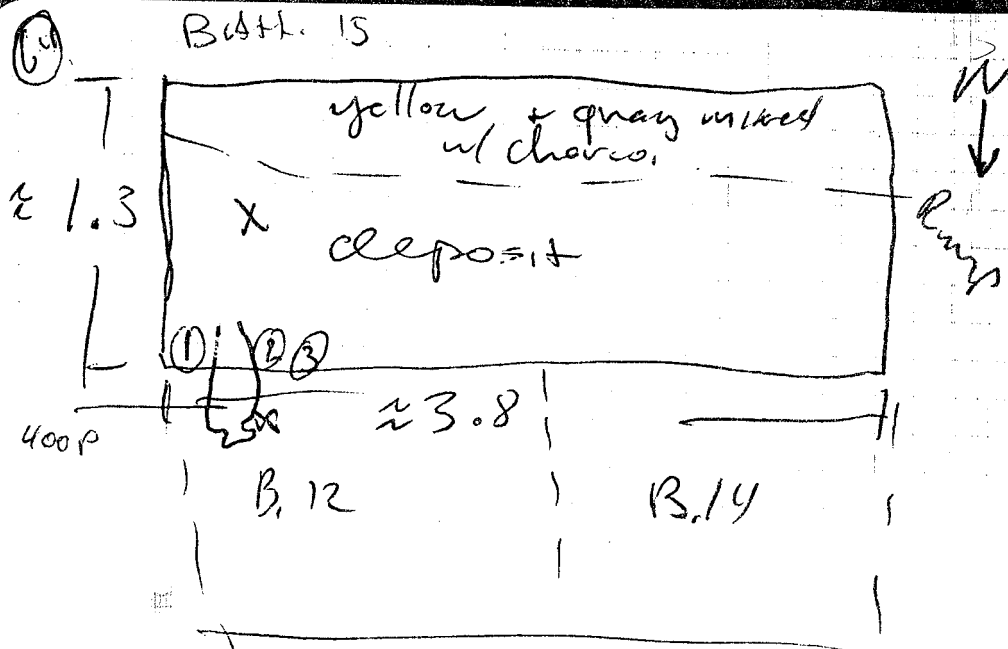
Beff. 14



articulated cow leg
 A) 1.6825 - 7675
 B) 1.785 - .87
 C) 2.065 - 1.15
 D) 1.88 - .965

556 P yellow Br to Dogs
 502 PL "
 503 PL "
 736 B "

Bath. 15



X - Charcoal Sample

1-3 - Soil samples

- 1 - yellow
- 2 - Yel. Br.
- 3 - grey



A) 2.09	- 1.275
B) 2.11	- 1.195
C) 2.15	- 1.243
D) 2.145	- 1.24

- 529 B
- 581 B
- 586 m
- 599 B
- 504 PL
- 505 PL
- 506 PL
- 507 PL Yel. Br.
- 737 B

Batt. 15

(65)

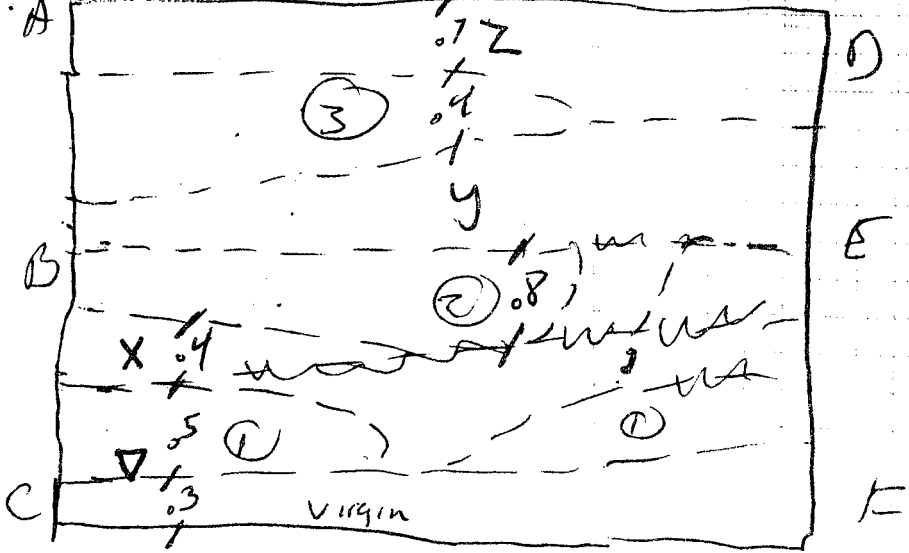
perpendicular across 12 + 14 do tile

- charcoal samples taken East edge at ceramic deposit
- over deposit ~~to~~ SE side DK grey Brown w/ charcoal

cleaning level 2 south side
- DK grey over 11 grey + yellow
both days

(16)

ceramic levels



HI 1.03

A)	2.38	-1.35
B)	2.29	-1.26
C)	1.79	-0.76
D)	2.025	-0.995
E)	2.173	-1.145
F)	1.6425	-0.6125

*DAMOKRATHS (SB 52)

Δ - Demarcates Amphora

- compl. Amps	400 P	lev. 2	513 PL	cle ^{ing} 2.1
	455 SS		514 PL	" "
	462 B	lv. 2	515 PL	" "
	469 P	cleaning level I		to dep
	522 P	lv. 3	516 PL	" "
	542 B	lv. 2	678 SS	" "
	544 B	lv. 3	732 B	" "
	583 B	lv. 1	770 P	" "
	610 B	Win corner	557 PL	L. 2
	508 PL	L. 2	790 P	L. 1
	509 PL	L. 1	873 T	"
	510 PL	L. 1		
	511 PL	L. 2		
	512 PL	L. 2		

$$\begin{array}{r} 2.225 \\ 1.03 \\ \hline 4.15 \end{array}$$

June 25

Deposit
~~Analysis~~
Ceramic Analysis

(67)

- Level I - 2.54 5/4 (H. olive Br
silt)

- ~~578~~ 5/1 grey mottled with yellow/Br
& Charcoal = X silt

- Level 2 - 10 yr 5/2 grayish Brown
fine sand and small gravel

Level 3 10 yr 6/2 dk grayish Br fine
mottled w/ Brown fine sand and gravel

- Z = mottled 2.54 7/8 yellow and 2.54 N6/grey
silt & fine gravel

323 SS

525 sm

517 PL

533 PL

867 P

868 P

869 P

- Ramp

"

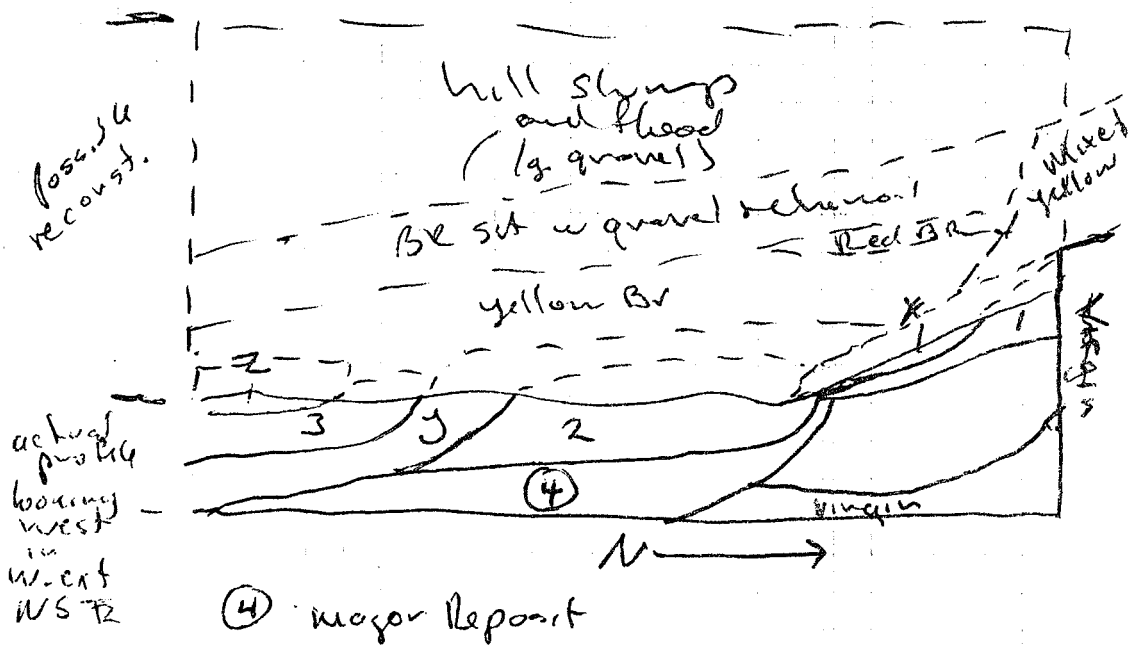
"

"

"

"

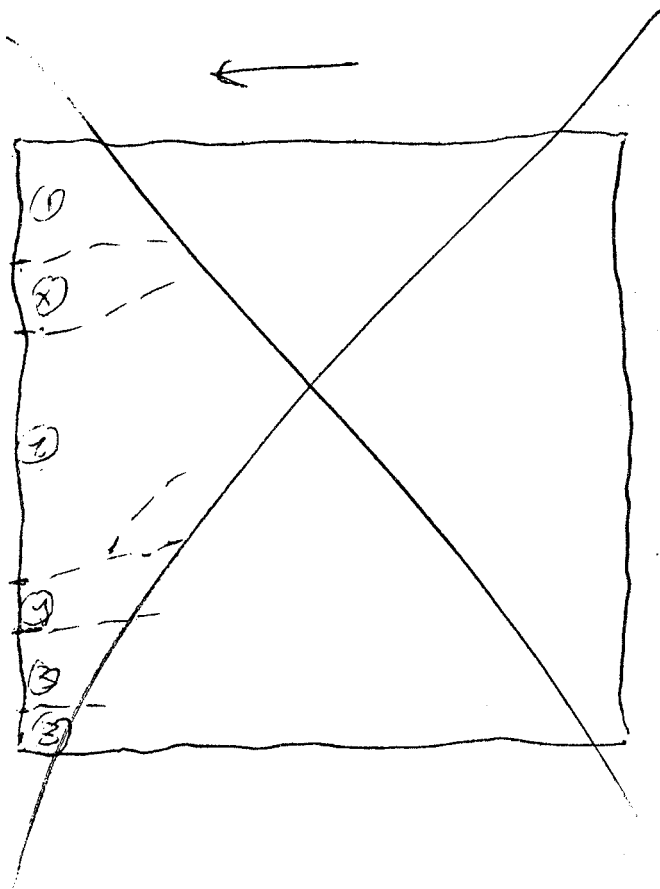
68



Level I includes "X", 2-"Y" and 3-"Z" (69)

Calling Butt the today starting at 2
i.e. before second set of photographs
and measuring.

level
low
1
2
3
4
5



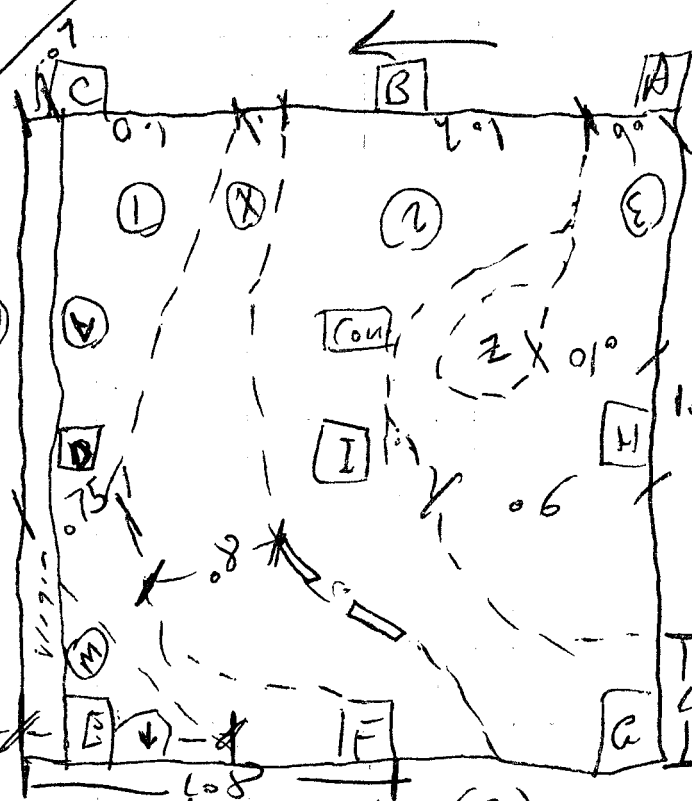
70

B. 2

A. 1 .915

1.03

dump (M)

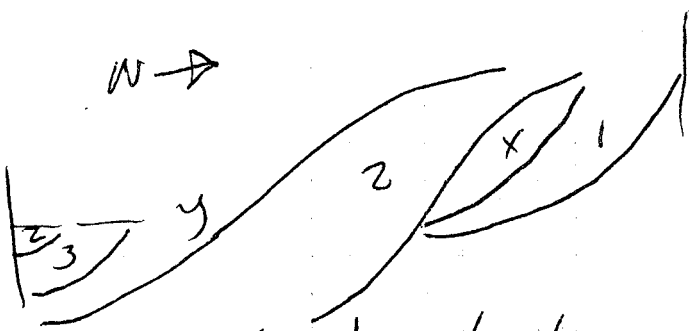


~~7~~
~~27~~
~~4~~

- urban
- A) 2.3375
 - B) 2.225
 - C) 1.875
 - D) 1.80
 - E) 1.75
 - F) 2.02
 - G) 2.155
 - H) 2.285
 - I) 2.15

- Corrected D.
- A) 6.3075
 - B) 1.195
 - C) 0.845
 - D) 0.77
 - E) 0.72
 - F) 0.99
 - G) 1.125
 - H) 1.255
 - I) 1.12

(M) - Red Br soil (?)
 ↓ Burnt area



center trench bearing west
Hypothetical

1.8
3.6

(1)

It appears that level 3 or 3 covered
and level 2 covered most of I

N-W corner 5 yr 3/2 DK reddish
brown - layer over deposit

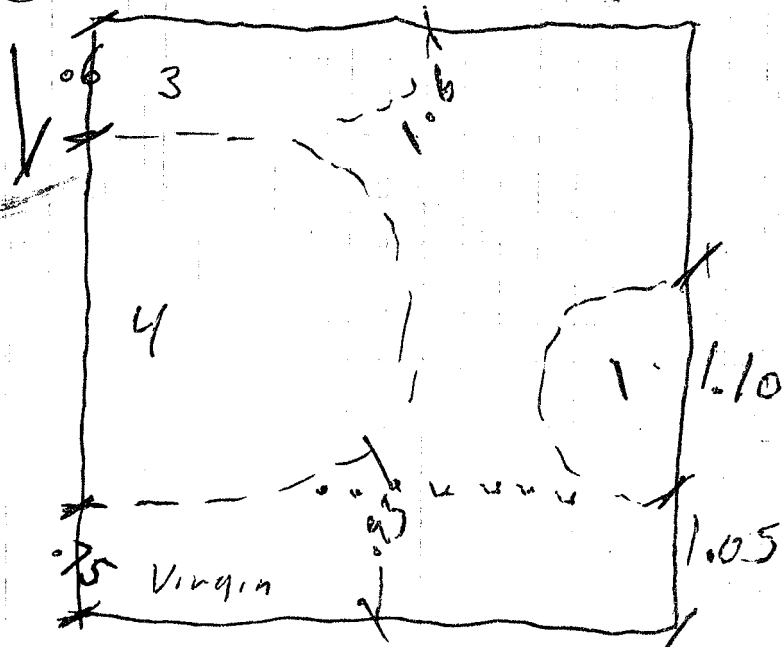
Burnt area - level 1 nest wall
Soil sample

B. 2
600 P L. 3
612 M L. 7
534 PL NW corner Yel. Br / red.

(72)

B.3

not to scale



in between zones left out

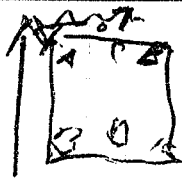
B. 3
Prove

level 4 appears East and West
end and level 2 is finished

Base level 1 by field stones

- ~~522 P L. 3~~
- 524 P L. 1
- 530 P L. 1
- 543 B L. 2
- 549 B L. 1
- 579 B L. 3
- 582 B L. 2
- 589 P L. 3
- 590 P L. 4
- 606 B L. 2
- 626 B L. 1
- 661 B L. 1
- 703 B L. 1
- 523 PL L. 4
- 526 PL L. 1
- 527 PL L. 1
- 531 PL L. 1
- 802 P L. 2
- 864 P L. 2
- 866 B L. 1
- 870 P L. 1
- 871 P L. 1

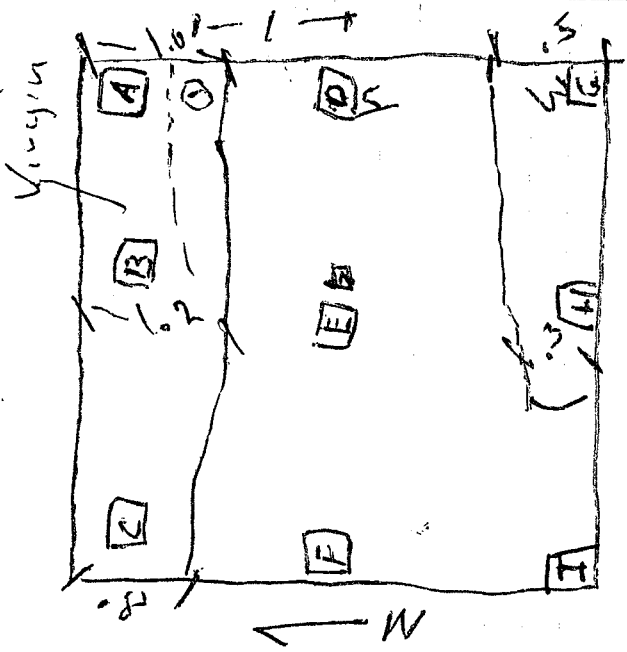
(74) N - 3.4 / 4.1
 E 3.35
 S 3.9
 W 3.45



A)	2.0325	- 6.1175
B)	2.395	- 6.49
C)	2.09	- 1.173
D)	2.1015	- 1.43
E)	1.955	- 1.048
F)	2.205	- 1.29

B.3

of Kennedy
 edge of trench
 and readings A, C, E



B.4

A)	2.20
B)	2.13
C)	2.035 2.035
D)	2.42
E)	2.33
F)	2.205
G)	2.49
H)	2.43
I)	2.325

A)	-1.285
B)	-1.215
C)	-1.12
D)	-1.505
E)	-1.415
F)	-1.29
G)	-1.575
H)	-1.515
I)	-1.41

⊙ - yellow w/ material
 - interface

in between zones left out

June 26 659 B ¹²⁰⁰ ¹²¹³ ¹²

(75)

HI 0915

Corrected C B. 2 1.76
must correct readings as no BM reading
taking

B. 3 - clean + photos

- Buried Bone - patch at level 1

B. 4

Level 4 is the bottom most layer
it sits in a grey clay soil with
much charcoal

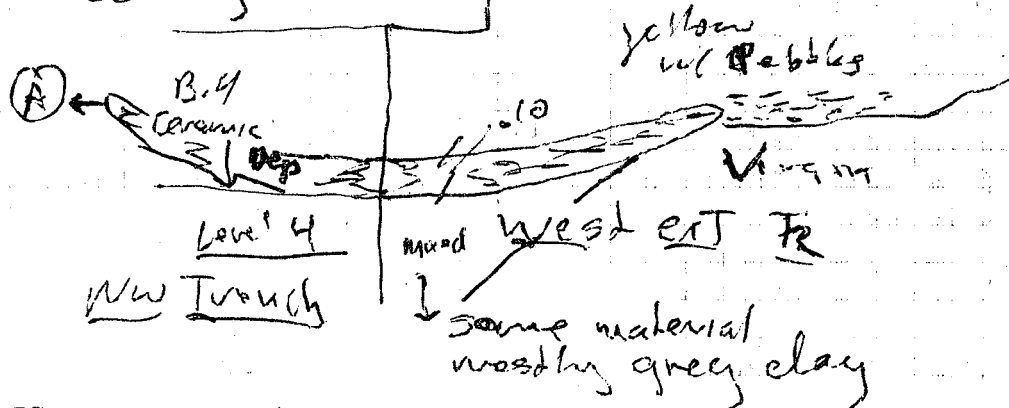
- The material thrown out the
deposit seems rather consistent
though it did appear that the
larger fragments of coarse waves
came from level 2.

- Log shows in 4 + Terracotta Brick

545 B	L. 2	G.W.	734 P	L. 4	896 T
680 B	L. 4	"	735 P	"	897 P
702 B	L. 1 west	"	739 P	"	
704 B	L. 4		741 T	"	
705 B	"		760 P	"	
706 B	L. 3	G.W.	788 P	"	
714 B	L. 4		815 P	"	- DAWD KRAITHS APR 4-25th
733 B	"		872 P	"	Stamp

76

Looking North



- (A) - small pebbles, FeO₂ stains & deposits
- Dix grey wet clay
- Top of Level 4?

(77)
- In that patch - level 1 of the nest
wall with the burnt area is
coming up fragments of the
Calcareous di. Aranea (?)

- Level 1 nest side maybe its own
deposit above level 1

B. 5

remains. level 3

Some material (W. side) mixed in
yellow - will stamp material bagged
w/ 4

- many large Bones in level 4 in
this Batt.

425 B

707 B L. 4

708 B

711 B

767 B

779 P

782 P

783 P

797 T

803 P

804 P

812 P

813 T

842 P

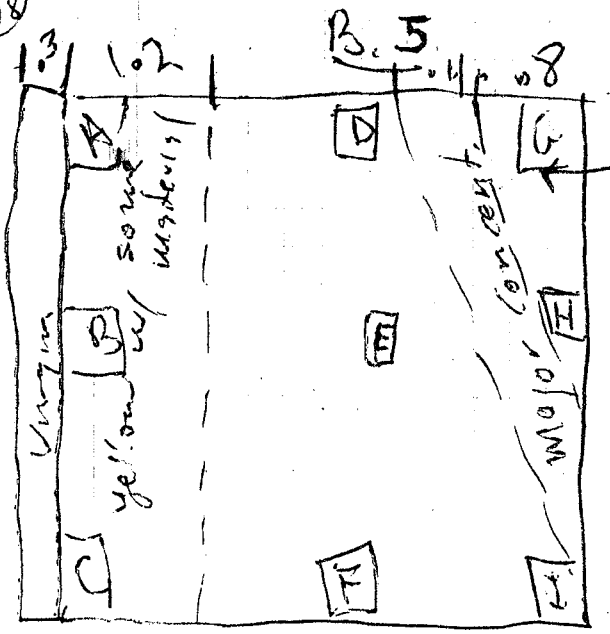
843 P

847 P

865 P

(78)

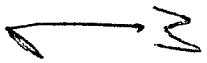
H I - 0.93



no materials
 from 1 or 3
 soil layer
 every w/ charcoal
 line 4
 (29 - 2e)

A)	2.37	-1.44
B)	2.25	-1.32
C)	2.19	-1.26
D)	2.59	-1.66
E)	2.44	-1.51
F)	2.31	-1.38
G)	2.61	-1.68
H)	2.54	-1.61
I)	2.43	-1.50

all level 4



June 29

(74)

- Cow skeleton uncovered in B. 5 + B. 6 for detailed description and diagrams see Boyce p. - 5 on post Boyce
- Ditching B. 3

B. 6 - Level 4

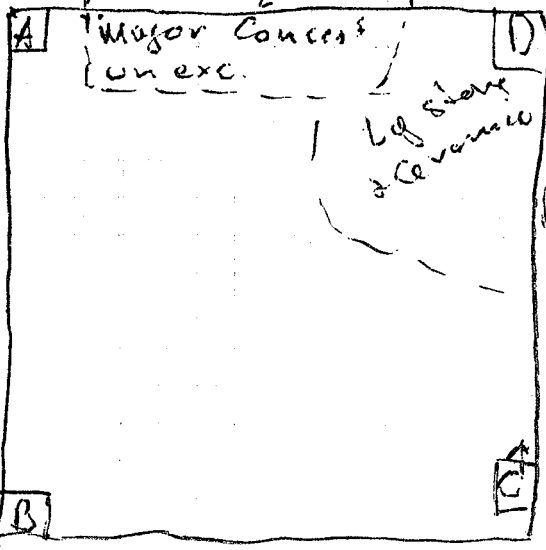
to Virgin

- Some ceramic in this B. 6. Shows signs of burning (non-cookware)
 - Major deposit of ceramic - 5y 5/1
green clay - wet
- mass of pottery and clay
 - note lg. rounded field stones
 - Bones - see Boyce
- | | |
|-------|-------|
| 521 B | 851 P |
| 660 B | 852 P |
| 768 P | 853 P |
| 769 P | 854 P |
| 848 P | 924 M |
| 849 P | |
| 850 P | |

(80)

B. 6

2.0



A)	2.91	-1.98
B)	2.41	-1.48
C)	2.76	-1.43
D)	2.53	-1.60

[water bene - Boyce & Bones Bath. 7]
 June 29, 30

Charcoal sample area of Bone (87)
- See Boyce
→ 1.0-2.0 m. w along south wall

B.7
450 B
857 P

Back to well Trench - see pp. 27-30
- cleaning
new H.L. 0.00
cleaning Bolt. 2.

710 B

82 Well Trench

Map to scale

① 10 ft 5/6 yellowish br. mixed w/ 10 ft 6/1 grey - sand

② 5 ft 4/1 dark grey silt/mud - wet

③ gray-brown w/ gravel

④ dk gr. clay w/ ceramic and charcoal

* 360 P M-5 (spring)

* 364 P " "

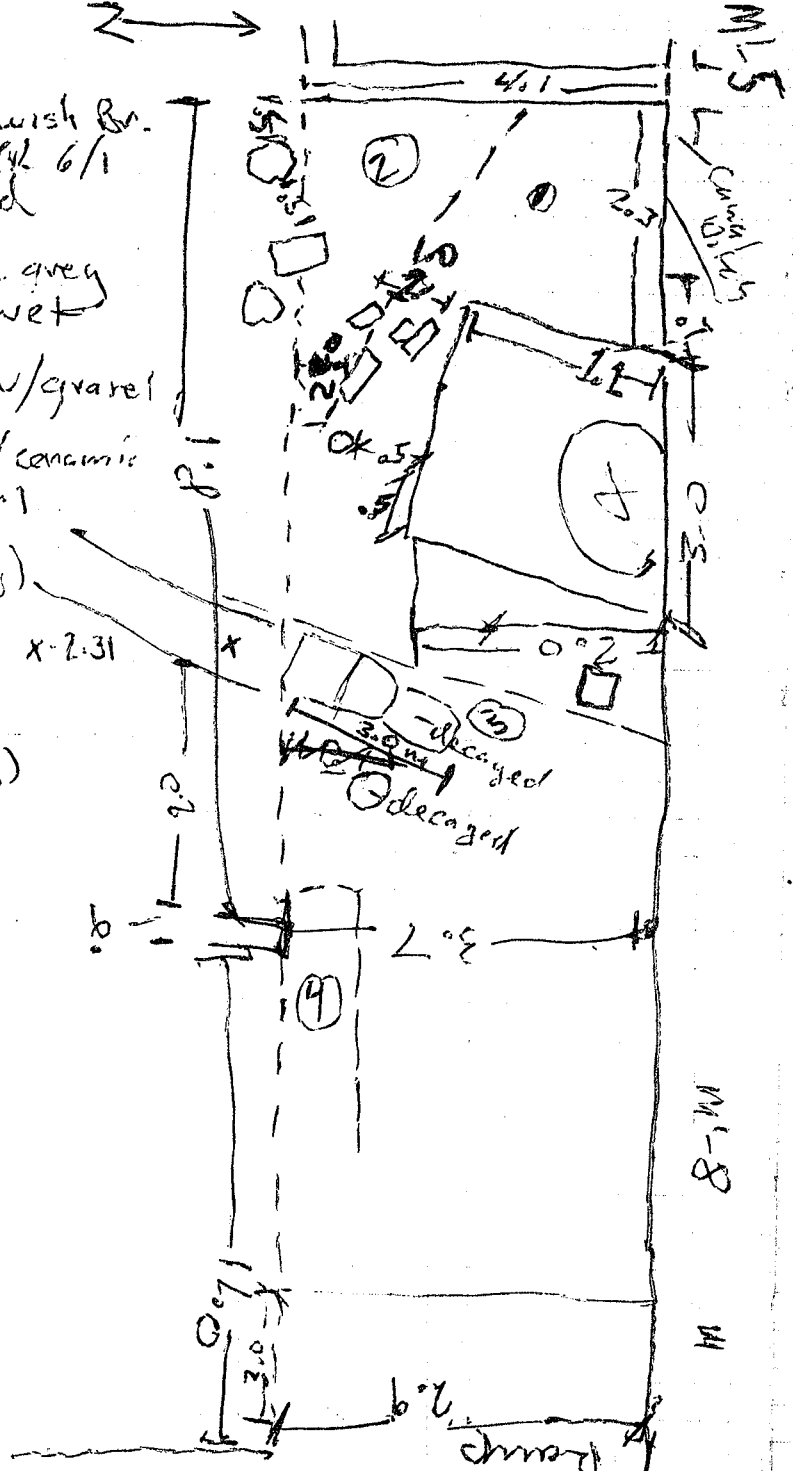
713 B M-7

715 B M-7

716 B to M-8

717 B M-5 (spring)

x-2.31



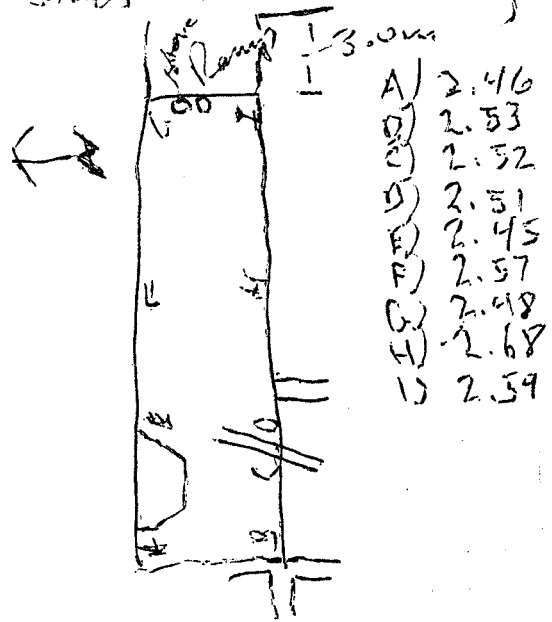
June 30

Well Trench - continuing
Cleaning B.H. 2.

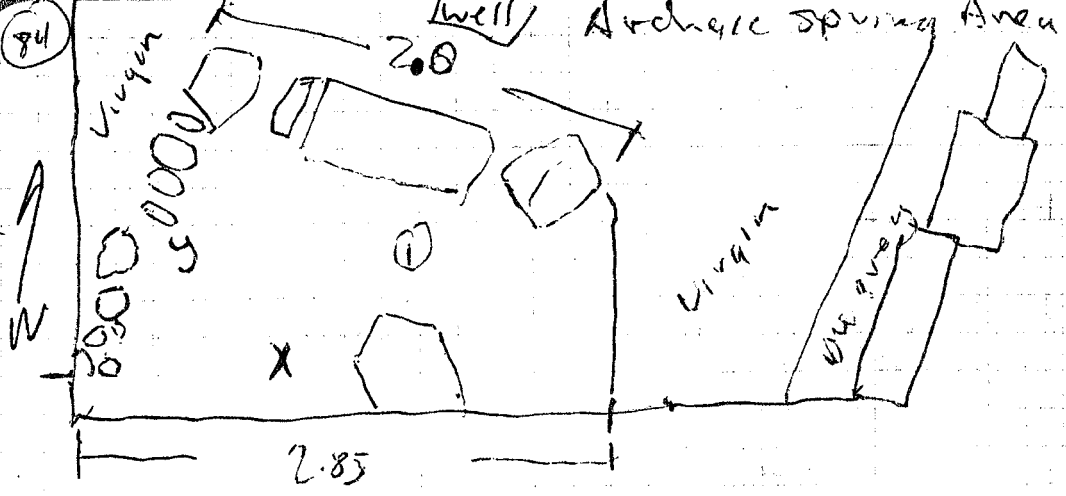
HI - .105

Beyond the line of lg. cut blocks is a
greater concentration of stone, tile
and pottery

- Some ~~water~~ ^{water} worn greyware
Flood deposit? or wet soil
- two decaying conglomerates
- grey Brown soil w/ gravel overlies
Dk grey clay
- more greyware M-7
- Sands diminishing to East



84

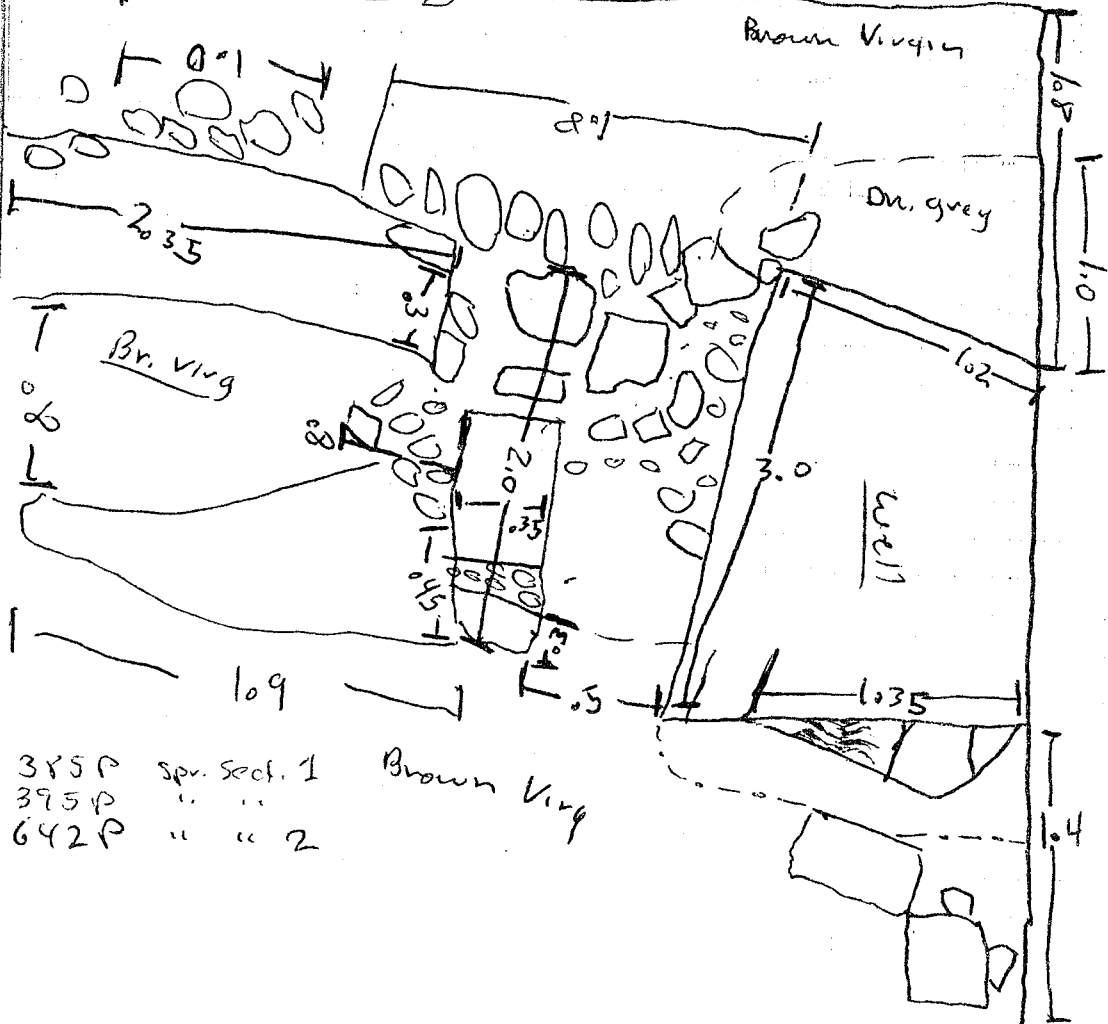


① Archaic spring - native vessels
 on grey med. SA.

X - area of shells
 y - red. fig frag

86 Spring + well

Apr 14



- 385P sep. sect. 1
- 395P " " "
- 642P " " 2

Brown Vireg

not to scale

- second line of stone - decaying congl. (pudding stone) to south.
- stones usually rounded river stones
- cut blocks - one center front others right side

July 1

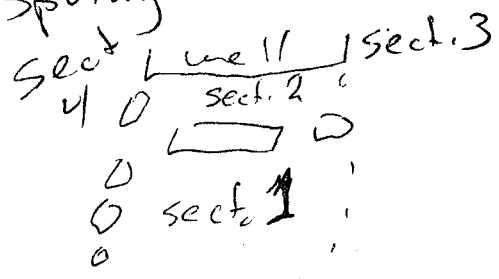
HI-09

Bath. 1 - well Trench

- grey sd similar to spring - part of spring - directly in front of well within rectangle framed by well and stones - one votive vessel

- Bulk removed to right of well

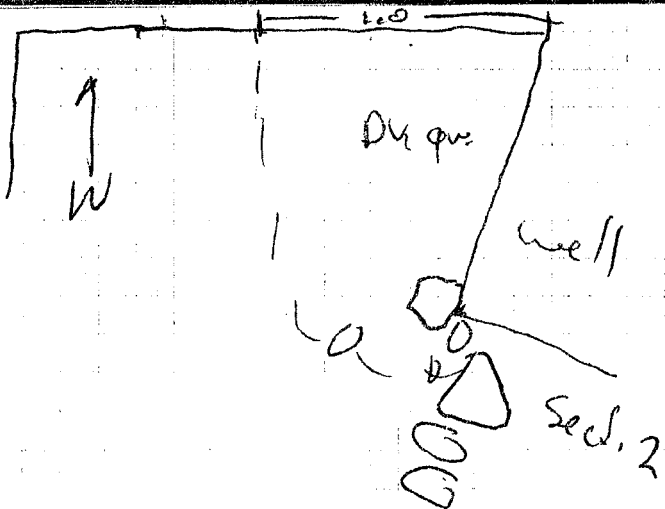
- Spring sect. 1 + sect. 2



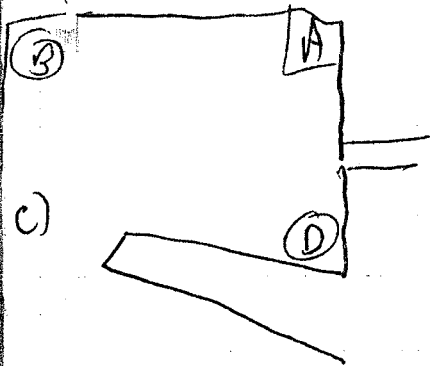
- in area of Spring B. 1 to base of grey

- 832 ws Spr. Sect. 1
- 861 P " } votives
- 862 P " }
- 923 ss " }

(88) Sect. 4
 defined only
 by color

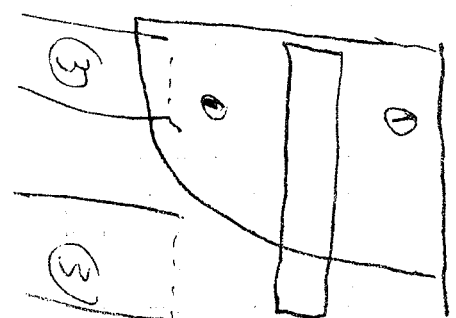


B. 1 East of wall



- A) 2.79
- B) 2.77
- C) 2.67
- D) 2.68

Schematic - Spring



- (1) area of rounded stones
- (2) 1/4 way and 1/5 way cut
- (3) canals

(89)

- From Bulk removal
- an area of DK gr. SA like in spring
capped by lg stones from this area
much terracot plaques - sect. 3

- From the Spring sect. 1 the DK. gr.
was removed to Virgin - two channels
were exposed

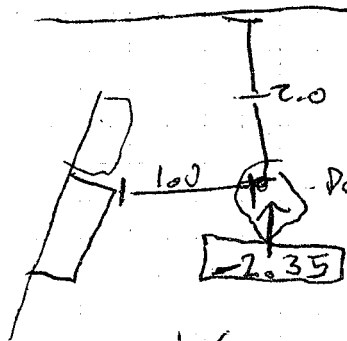
- Bath. 1 deep east of retaining wall
Same DK. gr. - much Ceramic

- ending Bath. 1 1.6 m. into M-7
- DK gr mixed ceramic, charcoal

(west to east)
718 charcoal DK. gr.
719 B " "

Beginning B.2 (east to west)

2.91

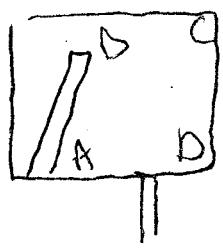


Decayed Congl.

sitting on Dk qv

M-6

B. 2



- A) 2.94
- B) 2.89
- C) 2.86
- D) 2.895

July 2 Bass. 2

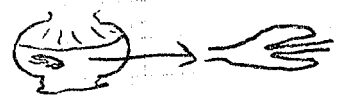
Same dk gr, wet SA
- Starting in NE corner of this short
sq to about a meter south on
west side by 5/2 Olive grey SA
little to no material

- little decorated Black gloze jug
by low corast.

- Convection Olive grey just in NW
overlies Virgin

- HI - .065

- Basil deco Siding



M²-6
429 BS olive gr
627 P Dn gr
721 P
829 WS
831 WS
841 SS

M¹-7
5241 P Dn gr (v. 1)
831 WS

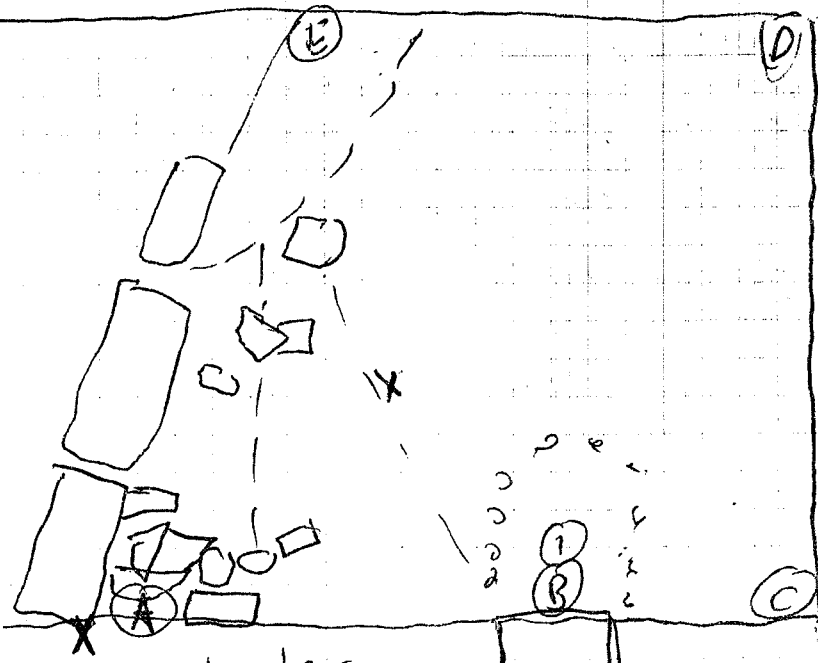
830 WS
840 WS

Spring sect. 2
641 P
~~832 WS sect. 1~~
839 WS

M¹-5 B.1
828 WS Dk. gr

B. 3

92



water
 (E) - ceramic Deposit
 X - new Bm
 H/L - .955

- A) 1.55
- B) 1.70
- C) 1.67
- D) 1.67
- E) 1.58

Batt-3

(97)

4 wash tubs to be floated over
stones

- among the rocks at the bottom
of the Batt. 5 y 2.5/2 - Block
clay - one bucket

- 5BA 5/1 greenish grey over
virgin by wall - also over Block

- Dk gr silt over green gr
material in Dk gr.

- Soil Sample - 1 pot from Block

- one from among ceramic dep.

for flotation See Boyce

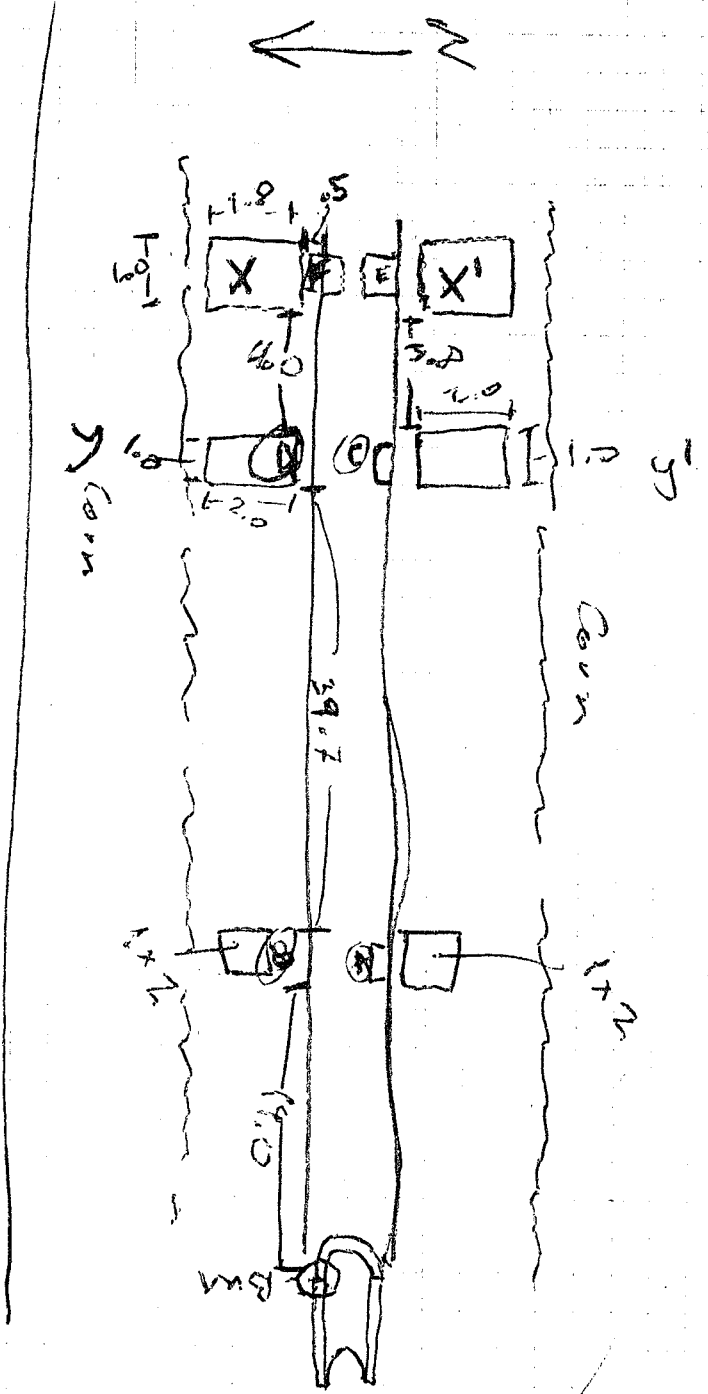
7/2 wood

8/7 weed

~~8/8 "~~

- Dk gr. / Olive gr.

~~BA under 1st gr.~~



+ Level

July 3

(95)

left well Trench

Sounding south of irrigation
Canal

- 3 sets of stones noticed in
canal in cornfield

HI (to Canelletha) B

1.82

A) 2.23

B) 1.31

C) 2.32

D) 1.4

E) 2.17

F) 1.44

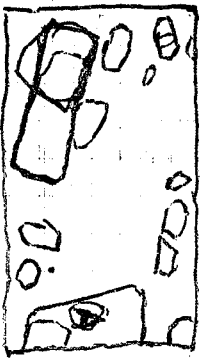
Soil wet, claylike

- Stones sit in 5y 4/1 DK. grey
clay - no material

- odd pc of Congl + calcarenite occasion
seen in field to west

- Stone - Calcarenite + Congl.
does not appear worked

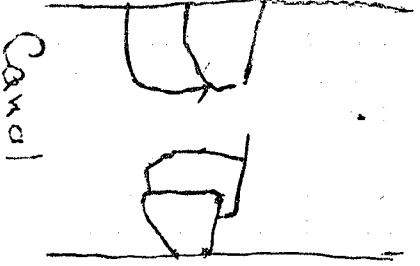
11.0 +



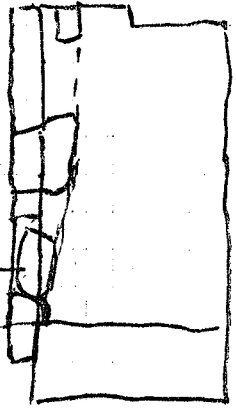
← N
X

- almost a pavement

A) 7.30
along to water level



Canal



X
③

③ - 2.24

direction of line

(47)

from X - X' 2-3 pcs of very much
damaged, weathered ceramic
non-collected

- More Material from Y in DM area

- Y - stone & Tile

Y' - dressed stones

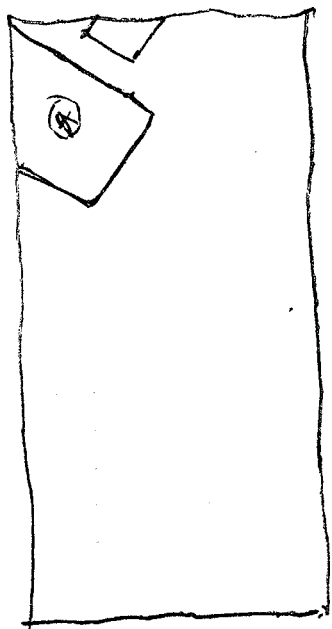
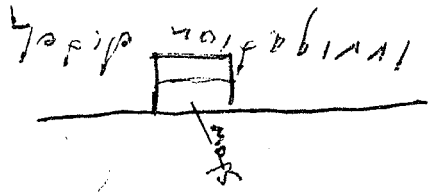
- The material in Y looks as if
it were in a pit at some sort

- from Y have Brick column sections
0.20 m in Radius (Same dimensions as
ones from w. ext. trench)

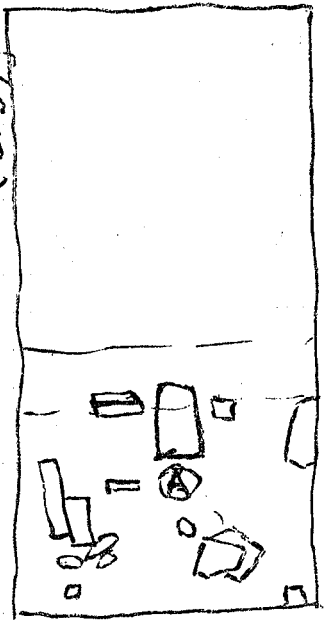
- also one part of Basalt grind stone
left on site

- from X' - small abused pc of black glaze
- lost

N → (H. 7 1.965)
⊙ 2.52



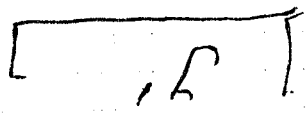
(H. 1.182)
⊙ 2.50
(2.52)



H. 5.1

Investigation Ditch

1.31



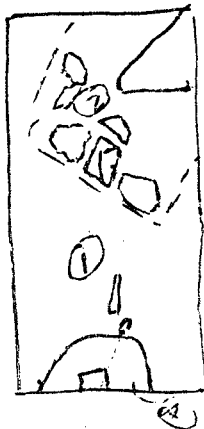
July 6

99

Continue soundings - ones from Friday near under water

Z

if it is a column it is very abused



(A) - Column?

(B) curved



(1) 2.37

(2) 2.31

- Calcareous

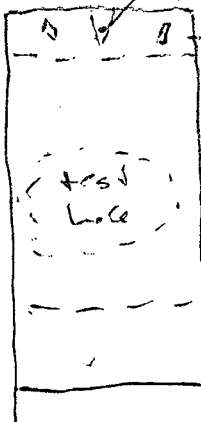
H 7. 1. 25



irrigation ditch

Z'

A) 2.45



concentration

709 B

well R

818 wood m-6 Br. under Blu. gr.

819 SS

833 WS

834 WS

835 WS

836 WS

837 WS

838 WS

} See Boyer

~~839~~
922 SS M-7 Bath 3

RI 1 1965

100

Back to well Trench

- taking wood samples - Brown layer under sand west side of retaining wall under tile & stone
- digging deep Bath. M-7 - beyond and dug July 2
- blue-grey mud over Brown organic layer - relatively sterile
- Leaves from under-tiles
- grey - semi sterile - 506 5/1
- brown - organic material + tile
- 1042 3/2 Very Dk grayish Br.

- Br level w/ organic material sits on Br. clay
organic level thin - ~~se~~ cease to function
as spring

July 18 - JCC

(102)

Well Trench

Soundings in the area to the east of the monumental wall.

Collection of soil samples for analysis by Constantini

Two soundings were made

Sounding I - about a meter to the east of the rough bones which rest on virgin sandy yellow soil which divide the well and channels with archaic material from the large basin lined with fieldstone to the east.

In the final days of excavation in the well trench it was noted that a layer of yellow brown soil just

820 SS	- organic level	SI
821 P	" "	"
822 SS	grey soil above Br.	SI
823 P	" "	"
824 SS	organic	"
825 SS	upper layer of Br. Org.	SII
827 SS	lower qm. Br over gravel	"

25-38

See + Giuseppe di Taranto
digging in Spring Sect ~~1~~ 2
Notes.

Pizzica

Summer

1981

Survey
Field Notes

Book

Field note Summaries

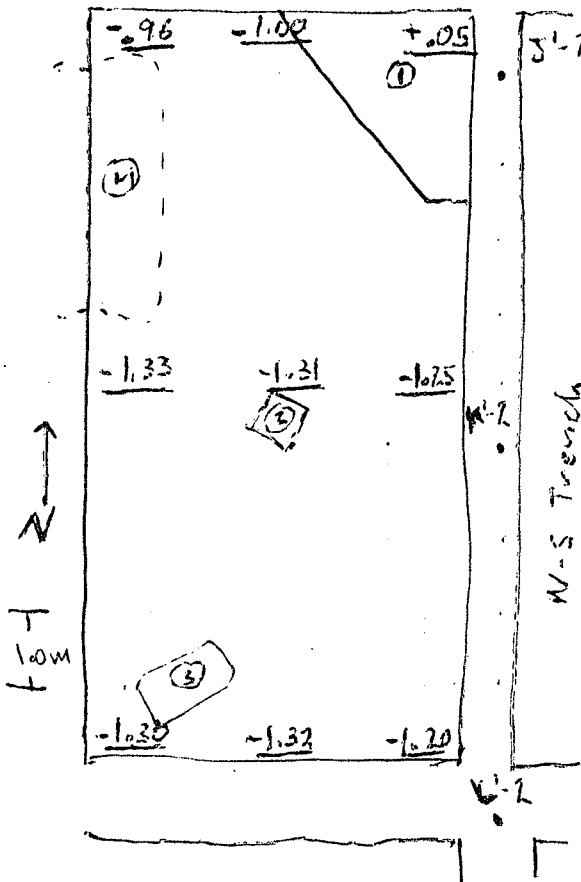
1981

Pizzica 1981

①

Work was continued and finished from last year in the West Extension at the North-South Trench. June 1 through 5 and 9 to 13.

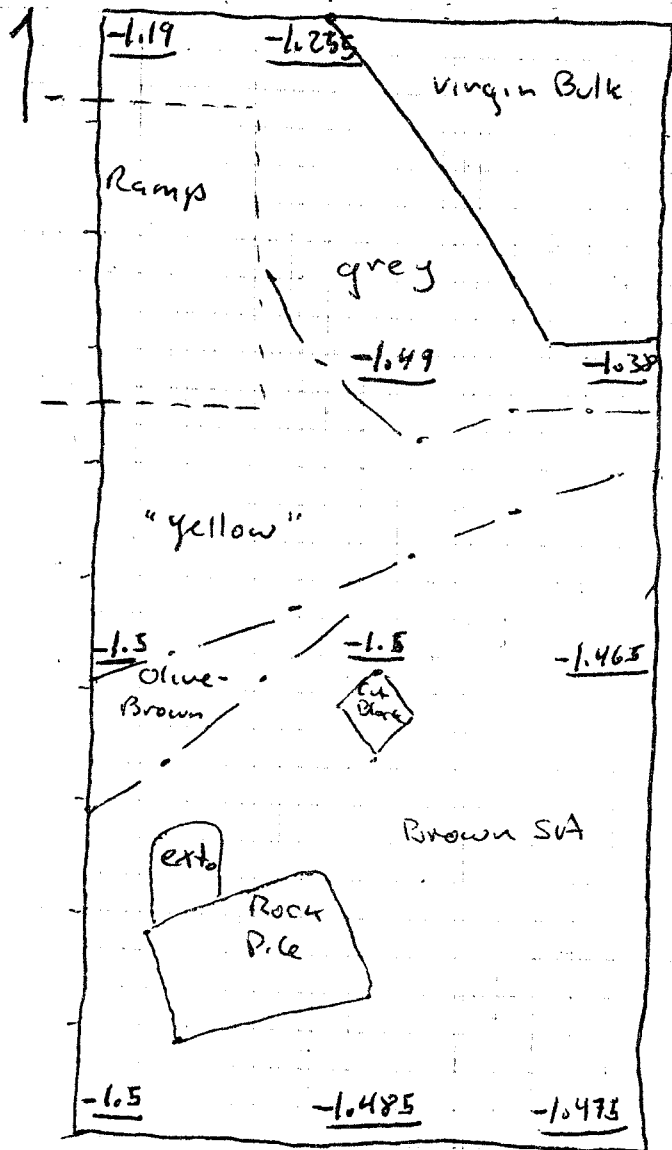
Trench before excavation '81



- ① Virgin soil - Bulk unexcavated.
- ② cut block
- ③ Rock pile
- ④ access ramp for dumper.

The first Battuta this season was Batt. 12.

Batt. 12 - finished
- 60M-1



• J-2

• K-2

The next discernible soil type was a sandy, Olive Brown (2.5 y 4/4) appearing at about 2.90 m. north on the west side just beyond the Rock pile extension. It was not clearly defined and caused some confusion, first referred to as a new level and then as an interface to the level beyond. The texture of the soil was however sandier. The patch about a meter wide at the wall extended, tapering to a point, NE into the center of the trench.

PZ-81-11 PL

and three water separation samples

PZ-81-12 → 14 WS

Just to the North of the Olive Brown, commencing at about the 5'-1/4" border was a soil which I first called yellow, it was probably dried out for when I checked the color with a freshly dug sample it was Olive Brown 2.5 y 4/4. It should be considered as a unit with the previous soil type.

It was a fine ~~st~~ sand with fine gravel. The texture of the previously mentioned soil was coarser.

One piece of Red figure pottery was from this level. There was also more material from this soil. Grey ware & coarse.

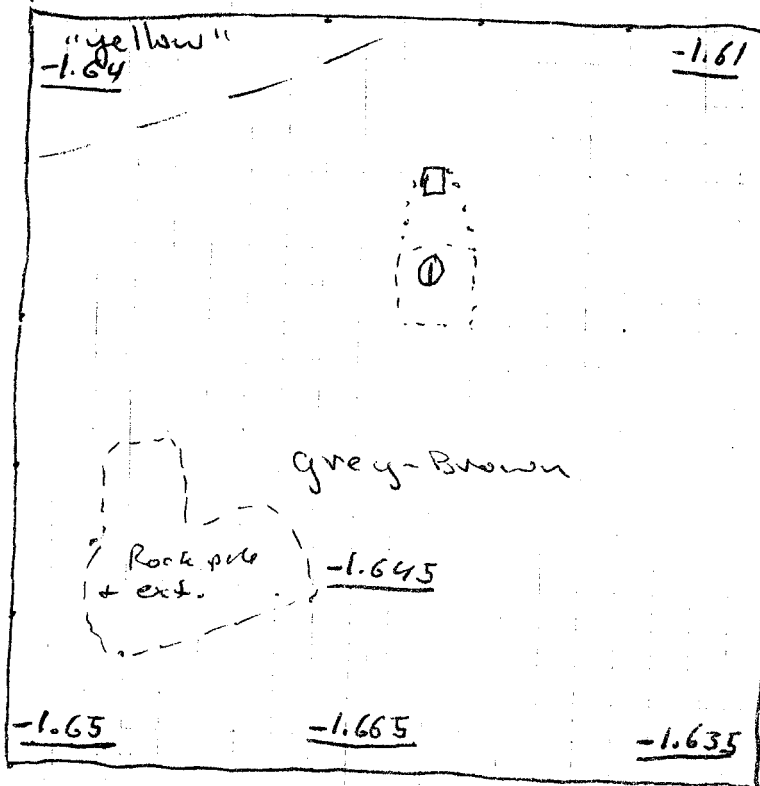
It extended NE across the square appearing briefly about two meters NE of where it appeared on west wall.

North and East of the "yellow" soil appearing against the Bulk and extending west under the Ramp. The color was grey 5y 6/1 with orange streaks (FeO₂?). It was a wet clay with some large pieces of gravel and much large pieces of pottery especially in area of Ramp and at interface with the "Yellow". The material was mostly coarse.

Moving from South to North was moving from the highest level to the lowest on account of the slope.

Batt. 1
13A

(Batt. 12)



① Small rock and tile concentration in area of cut block which had been removed.

Batt. 13A - June 3

(11)

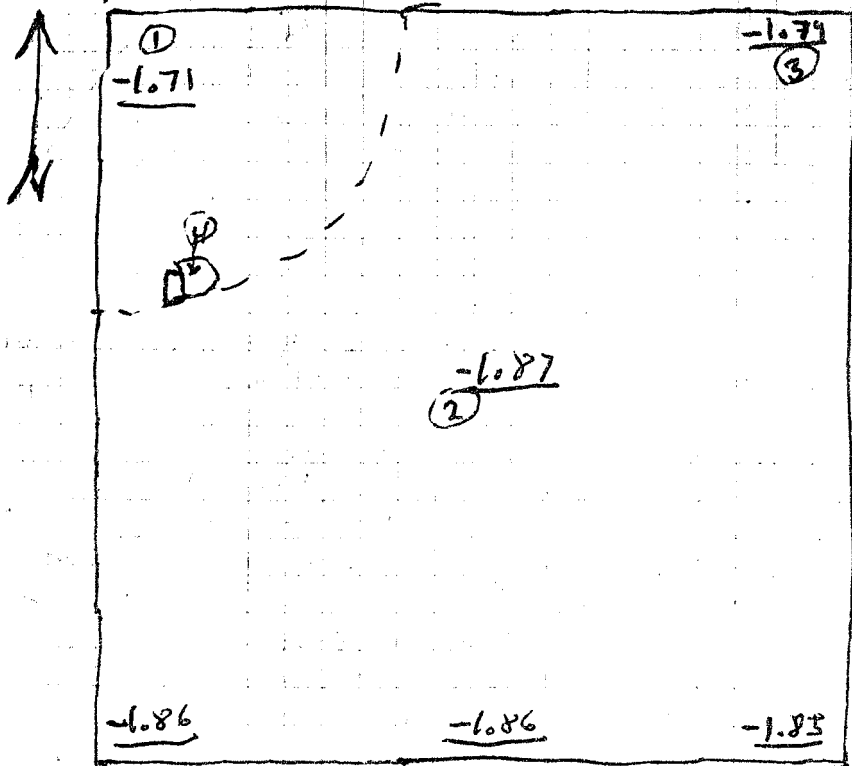
Because of the problem with the ramp encroaching on the deposit, decided to divide the trench into two parts and dig the south half first calling it section A.

The soil was consistent throughout most of the Battuta, the exception being the NW corner. 10 GR 5/2 grayish brown. It was a fine silty sand tending to clump.

The density of material increased moving north and west. The type of material was consistent with the upper Battuta. OR note one or two pieces of arneline from the SE corner PZ-21- and a stamped piece of clay found three meters north along west wall - PZ-81-

Batt. 14A

1.0m



- ① yellow SA w/ small to med. sized gravel
- ② Gray-brown silt/sand
- ③ small patch grey with iron oxide stains
- ④ 2 stones lying angled south

Batt. 14A - June 3 & 4

13

The rock and tile concentrations left in the last Battute were removed to level. The "Rock Pile" was bogged separately -

In the Battute itself the Grey-brown soil continued to predominate with a concentration of Charcoal appearing in the South braid with patches of burnt material or perhaps decayed vegetation being seen on the east side.

In the NE corner a grey patch appeared (#3 on map) and with it the first distinct grey ware slate.

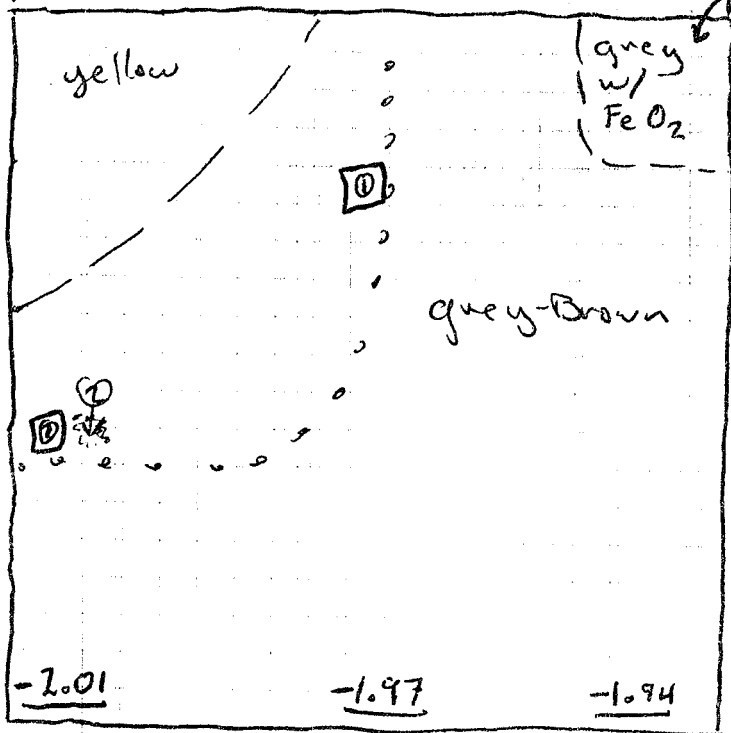
In NW quadrant the yellow patch of soil was better defined demarcated by a concentration of tile and medium sized rounded stones (note # 4 on map). The yellow had medium to small gravel. It was decided to leave the NW quadrant to see how far the patch extended to the south and east.

Water Separation samples given to Boyce

Bath. 15A

10m

-1.74



- ① Tile
- ② Charcoal patch

Batt. 15A - June 4

This Battuta continued the trends of the last battuta. The grey-Brown soil predominated with increased charcoal flecks and concentrations. Also in the SW corner a slight concentration of tiles occurred.

From the NW quadrant the gravel layer with the demarcating tile and stone concentration extended outward.

Also from the NE corner the grey patch with the iron oxide stains became more clearly defined.

Batt. 16A - June 4 & 5

(19)

It was decided to take this Battuta down to find the extent of the tile and stone concentration which had appeared in the upper Battuta in the NW quad.

The grey-brown soil was still covering the largest area, mostly in the south half where it was wetter and more clay like.

The stone and tile concentration on the west side thins out in the North to the yellow soil. If it once covered the yellow it was unrecognizable. The concentration probably sits at the base of the grey-brown level. In this Battuta the concentration is seen to extend all the way to the South end of the Trench.

The light grey level with the iron oxide stains which appeared in the NW corner is now appearing in spots all along the east wall. We have reached the very top of it. Just within it are scattered concentrations of Ceramic.

The material from this Bottle is mostly coarseware especially in the areas of concentration.

Batt. 17A - June 5, 6, 10

(13)

In this Battuta on the west side the stone and tile concentrations became further defined as a series of concentrations. I called them "pits" though they were much ~~to~~ shallow

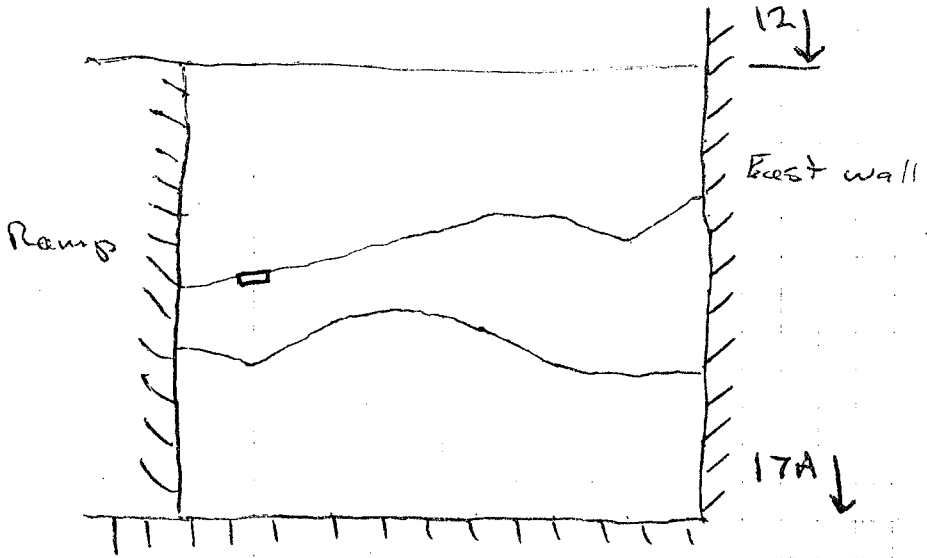
The material was mostly coarseware and tiles and found in what would have been the ~~parameters~~ of these pits.

~~On~~
In the west side the material came to an end and it was decided that we had reached the bottom of the archaeological level.

On the path to the trench a
couple of days in the well trench
we returned to Battle 17A and
took out the ramp and the
unexcavated NW quad.

A lense of light Olive Brown 2.5y 5/4
(my "yellow") overlying a Dark grayish
Brown 10yR 4/2.

Did a sketch profile of the North wall
at Section A at the east side. (P. 23)



Batt. 18C - June 10, 11

(27)

As the material was no longer coming from the East side of the trench, we cut it in half and took down the South west quadrant of the West extension Trench as a unit - Section C. This area was the area of the "pits".

The pits proved to be very shallow overlying layer of grey clay-like soil
by 4/11 - 5/11

Batt. 13B - June 11, 12

(29)

Having dug section A down to Virgin we returned to the N. half of the Trench, section B.

The old ramp was removed and a new one put in.

Under the ramps were finds from the DK grayish Brown and yellow levels.

The Dark grayish Brown and Dark grey from the west side is part of an ash and Ceramic deposit.

From the NE we ~~eat~~ continued to follow the Virgin Bulk down.

In the SE corner a small deposit of ceramic appeared in the 10^{yr} 1/2 DK grayish Brown extending N to Bulk.

The west half of the section had the major deposit of material in a very mixed matrix of soil and ash 2.5 y ~~4~~ 5/2 greyish Brown.



FBW-81-9
#12

In the SW corner was the "yellow" soil deposit. This level sits over the ash and ceramic but not directly.

In the NW corner was 5y 6/1 grey soil/clay. Not consistent color. This area also contained some finds. This would be the lower most layer of finds.

Batt. 14B - June 12

(38)

This Battuta is a continuation of the last Battuta.

The Ash and Ceramic Deposit on the west side continued, and the small ceramic deposit in the SE corner was seen to be resting on virgin soil.



FBW81-9
#14

Batt. 15B - June 12

(35)

The archaeological levels continue on the west side, otherwise the area of virgin soil continues to expand to the SW. The major soil color is Dk. grey brown.



FBW81-9
15

Batt. 16D - June 13

37

As we excavated only the west half at section B or the NW quadrant of the trench it was labeled "D".

The layers within the Deposit (and all the levels of the trench) slant to the south. And the layers of the Deposit were into the west wall suggesting an east slant as well.

At the base of the Battuta were large stones sitting on level within the virgin level



FBW 81-9
23



28

Batt. 17D - June 15

(39)

This is the last Battuta at the west extension trench. It was not complete Battuta and consisted of cleaning down to virgin across the section.

(11)

The most important part of the trench was the west half where there were a series of deposits or dumps. Especially in the NW quadrant where the major deposit seemed to occur. Much of the material from this area included unfinished pieces of pottery which suggests that it may have been a dump from the kilns.

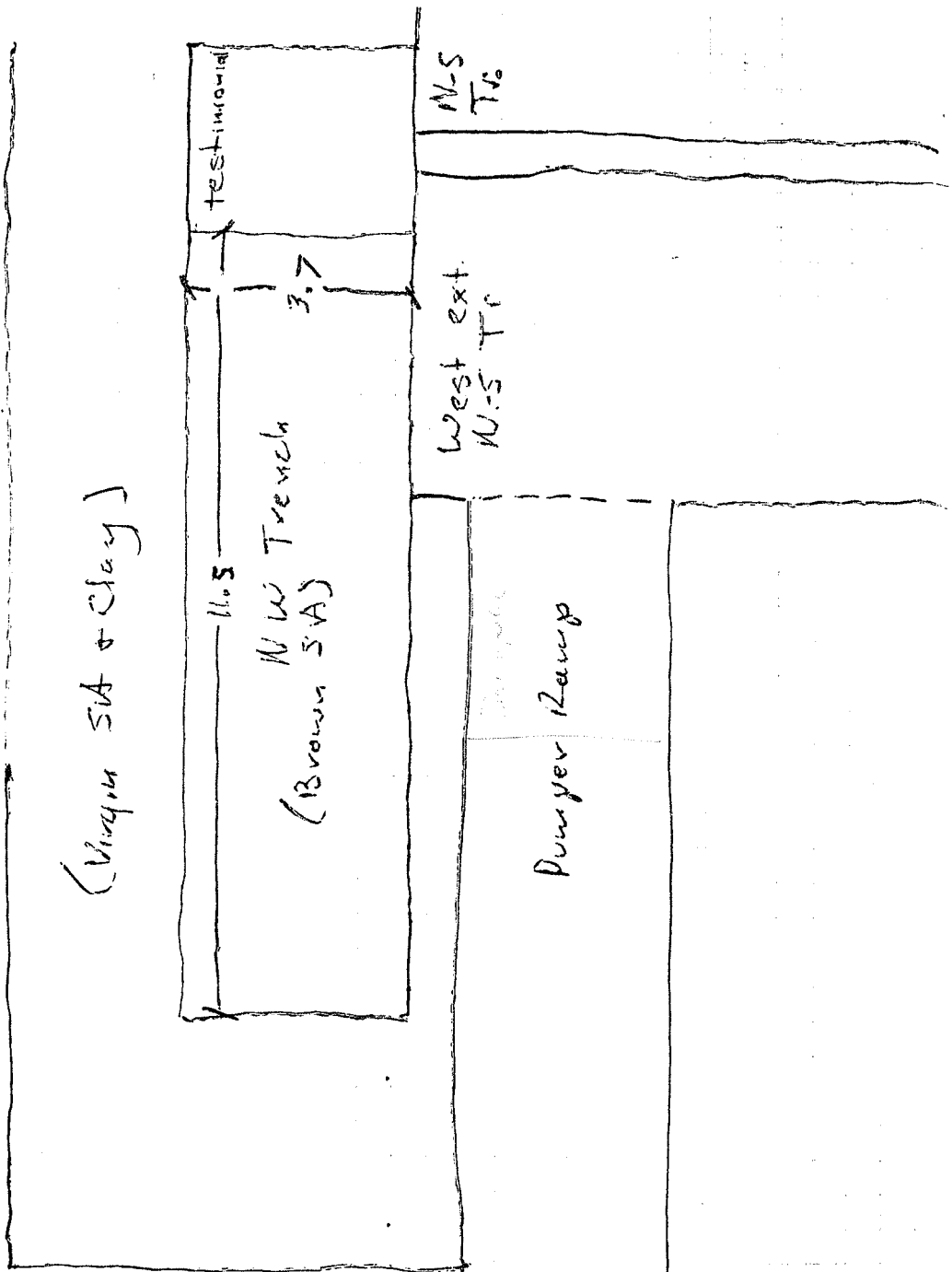
The deposit in the NW seems only to have been an edge of it as it slanted down south and east.

In order to further explore the area an area was cleared to the North and West of the Trench (June 8-12). The new area called the NW Trench, to include the area of the Dumper Ramp under which most of the material seemed to lie.

Northwest Trench

June 16-29

43



Batt. 1 - June 16

(45)

The first Battuta was a cleaning Battuta of the Bulldozer cut to find the extent of the archaeological zone and so mark out the trench to cover it.

Batt. 2 - June 17, 16

(47)

This Batt. defined the actual trench. The ~~method~~ strategy for this trench was to follow the Virgin silt & clay to find the original contours as the archaeological levels lay directly on the Virgin.

The levels were easy to see sandwiched between the Virgin and the Dk. Brown SA with gravel which is post archaeological being hill slump, river deposit and plow zone - geologic rather than cultural.

All the levels slant south. Immediately overlying the Virgin was a yellowish-red SA. It was very distinct but at about a meter and half west it bowed out to the south and became very mottled.

Overlying it was a Brown soil with some gravel overl then the Dk. Br. SA with gravel.

At about 7 meters west there was the area of a tile fall, 2 sets of tiles lying at a steep angle. a yellow-Brown soil separated the two sets - 2.5y 6/4. The interior set sat on the red-Brown soil - 5yR 5/8 yellowish red. This set over the virgin.



FBW 81-9 # 35-36

This was photographed and removed, little collectable material.

Batt. 3 - June 17, 19

(51)

All the virgin is left unexcavated
The yellowish-red is darker - a red-brown
S. Yr. 4/3.

overlying that is $7/5$ $4/3$ $5/4$ Brown
and over that a yellow Br.

all these levels bow out in the area
as it did before now extending to
the area where the tile fell was

Batt. 4 - June 18, 19

53

The red-brown flattens out in this
Bathuta and at the east end covers
half the trench

At the west end of the trench
was a mottled yellow soil underlying
the BR-SM with gravel which had
a denser gravel concentration at this end.

At about 4 meters east from the west
edge the changeover from red-BR
in east to mottled yellow in west
occurred. This was about the area
of the tile fall and also where
the virgin, which in the east to this
point had an almost vertical interface
with the overlying soils, sloped out
as if it had slumped at one point.

The overlying soils at this point were
confusing. At this change over point
the soils were mottled at various hues
Brown, yellow, grey. And types - Sand
and Clay.

The red Brown was redder and there
were pieces of charcoal and obviously
burnt patches. - We collected some burnt
mud Brick



FBW81-12
#10

Bath. 5 - June 19

(55)

The burnt patch around in the center of the trench is clearly defined, and seems to sit over or within the Red Brown of the east side. The Red Brown as it nears this area, acquires layers of different shades which may suggest a burning in place.

In the west end it was clay to Virginia or the mottled yellow which overlies it. Mottled yellow had little or no material except near Burnt area and may represent natural stumping and churning up of a ground surface.

Batt. 6 June 22

First major change in the shape of the trench. As the west end was down to virgin we cut the trench short 4 meters from the west edge.

The trench was almost completely of the Red Brown soil which started to take on an Ashy hue with flecks of charcoal appearing and an increase in the density of coal quantity at points.

The west edge (new edge) was still reminiscent of the burnt patch and made up mostly of a lt. Olive yellow SA. 205y 6/6

Batt. 7 - June 22

(59)

In this Batt. we are through the red Brown which sits over that Olive yellow patch noticed in the last Batt.

This Olive yellow sits over the Virgin and has little to no material

In SW portion a Brown sat - 10 yr 4/3
- Its connection with the Red Brown is hard to discern but it is the same color as the BR sat from the West end trench

Batt. P - June 23

(11)

This Battute was less than a meter
to finish off this section of the
New Trench. It covered the area of
the Brown SA along the south edge



FBS 81-12
= 24

Batt. 9 - June 23

This Batt. extends the NW Trench across the access ramp to the west ext. Trench under which the major deposit at that Trench seemed to lie. We are still following the line of the Virgin.

In the NW corner was a Dk. Br. 7 to 5 gr. 4/4 with a concentration of pottery and stone. Perhaps the top of the deposit.

Overlying it was a yellow Br. 10 yr 4/4 which had charcoal and bones mixed in.

Batt. 10 - June 23

In this Battuta the top of the Ceramic deposit (called "The Fe" at that time) became visible all along the North edge of this section of the trench.

The Yellow Brown was also seen to cover the whole deposit

The ceramic deposit was traced to the edge of the west ext. trench where it could be followed in the west Profile.
It should then be noted here that there may be some connection between the Yellow Br noted here and the "Yellow" or "Olive Br" which was seen as an upper layer over the Deposit in that trench.

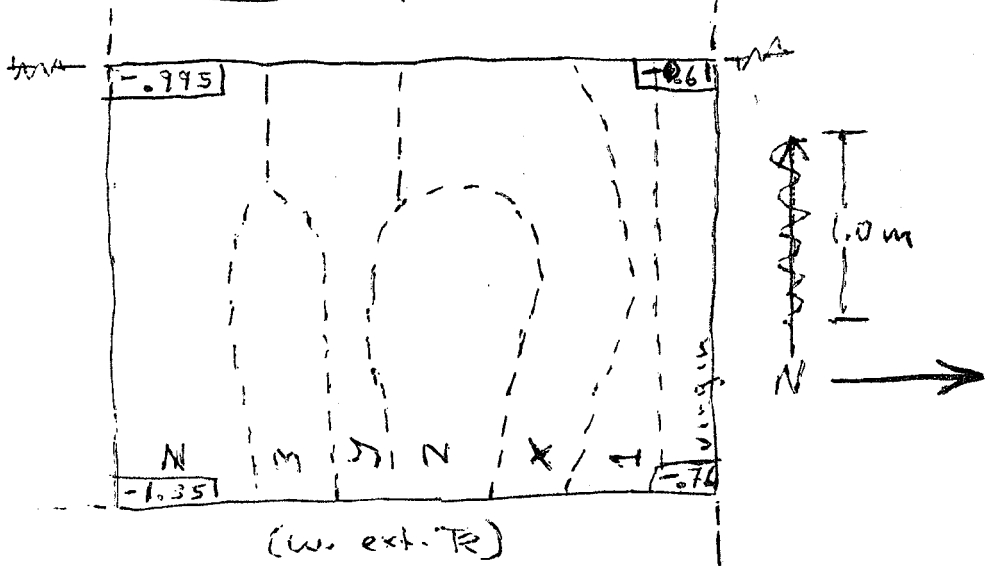
Berthote 11-15 - June 23, 24

These were a series small Berthote in area and depth to find and define the top of the ceramic deposit.

The numerical order is chronological in the way dug and not always positional

The soil above the definable ceramic deposit is very mottled and contains ash and ceramic

Ceramic Deposit - June 25-29



after cleaning I could see three major areas of concentration, which I referred to as levels. There were also three discernible intermediate zones.

Ceramic Level 1 - soil 2.5 y 5/4

lt. olive brown, silty

Intermediate level X - 5 y 5/1 grey, heavy charcoal concentration. Some mixing with level 1.

level 2 - 10 yr 5/2 grayish Brown, fine sand and gravel.

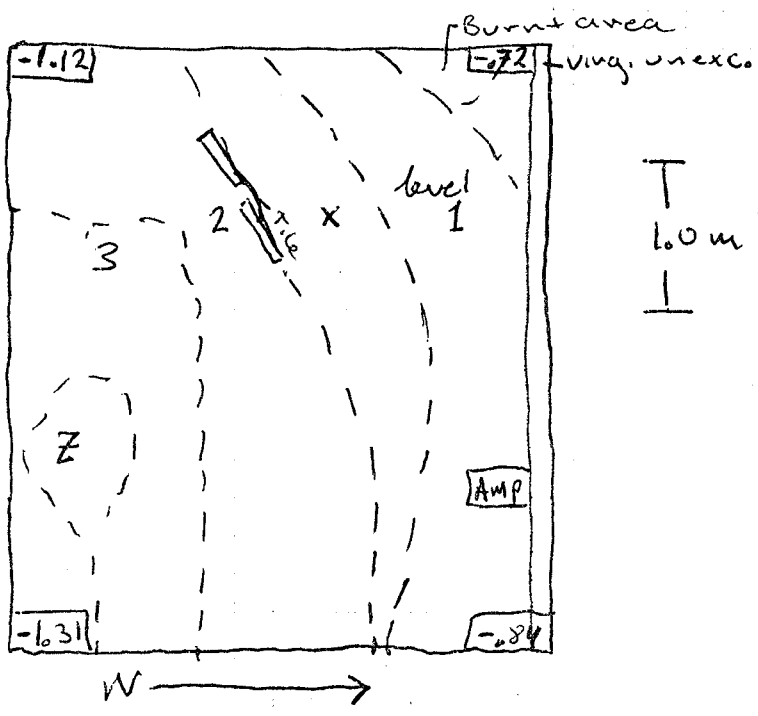
Y - close to matrix of level 2 but few or no ceramic material.

3 - 10 yr 6/2 Dark grayish Brown, mottled w/ Brown. fine sand and gravel.

Z - 2.5 y 7/8 yellow mottled w/ 2.5 y W6/ grey. silt and fine gravel.

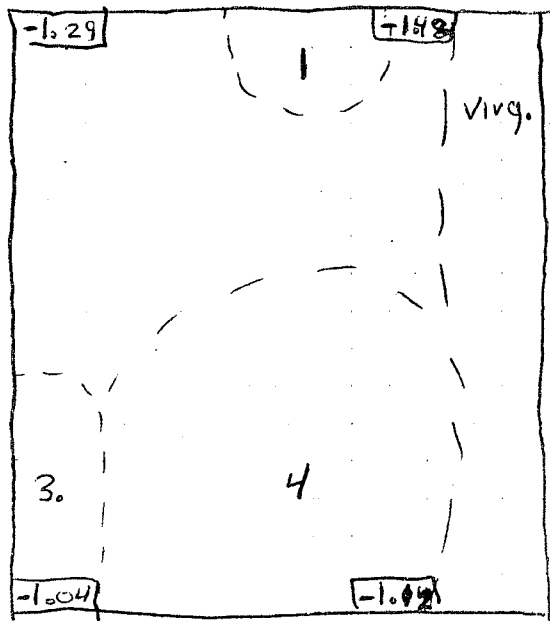
Z was the uppermost and 3 under it and so on with one being the earliest deposits.

Batt. 2



Batt. 3

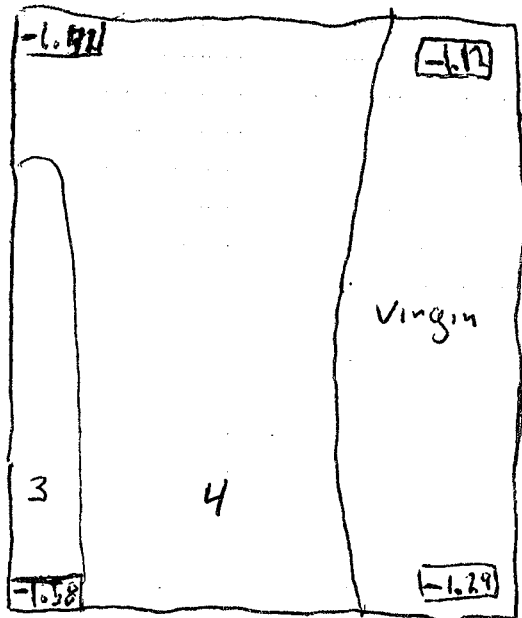
75



Level 4 is the level of the major concentration.
Level 1 on the west side may be its own deposit.

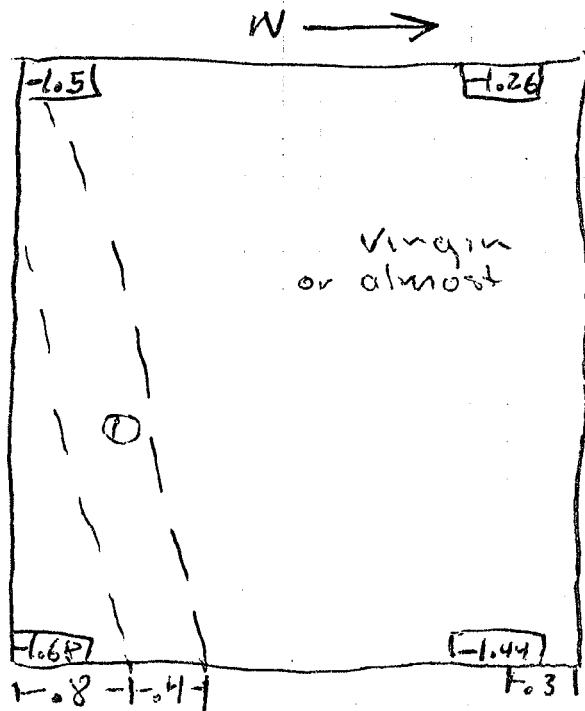
Batt. 4

77



1.0m

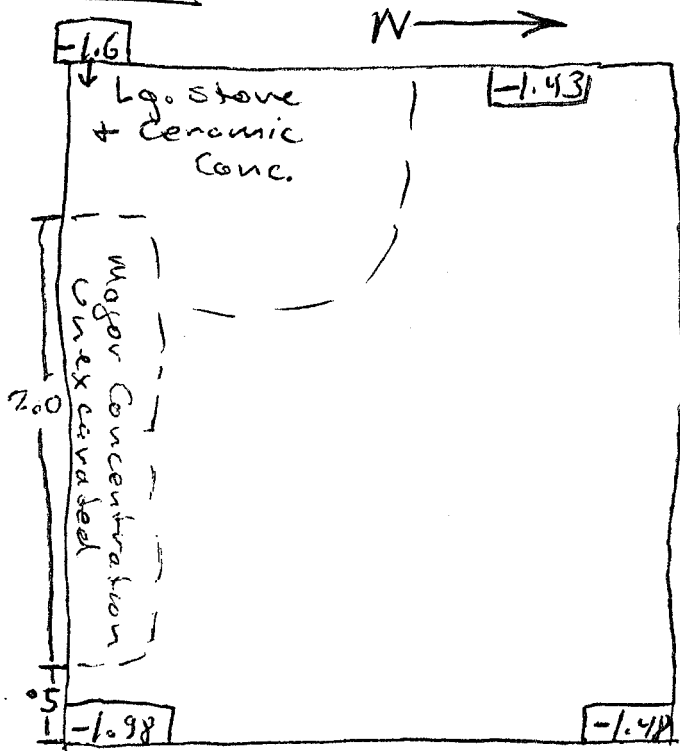
N →



① area of major concentration

large concentration of bones in this
and the next Battuta for details
see Boyce Cabanis

Batt. 6



Soil color of the ceramic deposit
 5/1 grey clay. wet with much
 ash - some non-ceramic vessels
 showing signs of burning.

Also noticed in this Battuta was the
 area of lg field stones which were also
 noticed on Batt. 160 at the West ext.
 trench and in the other deposits at
 that trench.

Batt. 7

Boyce Cabaniss dug part of
Battuta 7 due to the major
concentration of Bones

The Ceramic Material seemed rather
consistent throughout the Deposit
but the soils associated with each
ceramic level show the different
depositional episodes associated within
the deposit.

Well Trench

(87)

There were four separate periods of excavation in the "Well Trench" this season.

The "Well Trench" is the E-W Trench M¹-5 thru M⁶9

June 8 - 10

The well itself was excavated and cleaned to 0.79 below the top of the highest ceramic well ring - water level.

There was some cleaning of the Trench floor in the area of the well.

The balk - South Balk was very much decayed (washed out) and was removed at this time.

(87)

June 29 - July 2, 6

The major work was done in this period

Work began in the area at the well I divided it into sections.

Two channels - parallel - leading South were discovered and excavated to Virgin. - Section 1

Section 2 - area directly in front of (south of well) appeared as a stone lined basin - tiny native vessels were discovered there.

Same kind of soil overlying in Basin and channels - $N\frac{1}{2}$ munsell's dk grey fine sand - wet.

(81)

Section 3 was an area to the right
of the well - an area of large
stones forming a basin and many
remains of ~~the~~ Terracotta Plaques.
This deposit seems to have been
partially sealed by later building.

This area to the retaining wall
was dug to virgin - not far below
this years initial surface.

Spring section 2 excavated more on
July 25

The major area of interest this year was the area east of the retaining wall. It had been found in earlier years that there was a sealed organic deposit very well preserved

This area was very wet and difficult to work in.

The uppermost level was a Dark grey silty sand. There was a lot of ceramic material and charcoal from this level. The majority of the material was black glaze.

Under this lay a greenish gray sand 5 B& 5/10 almost sterile deposit. Boyce Carbaniss says the color may be due to an anaerobic environment.

Underlying this level among the stones at the base of the retaining wall was a black soil-clay
5y 2.5/2

In the major part of the area however under the sterile level was a Brown Sand filled with organic material and associated tiles.

This Sand in some parts overlies a Brown clay.

Samples from all these levels ~~are~~ ^{were} taken for water separation and seed analysis - more on July 18

T

July 3, 6

On these two days 3 sets of two soundings, a piece ~~area~~ were made in the Corn field to the South across the irrigation Canal from the Farm site at Azteca.

The soundings were base on the presence of stones discovered in the irrigation ditch in an otherwise stone less field (Alfredo Gallitelli told me that 30 yrs. ago this area was all under water)

The soundings revealed in the first set (X, X') a line of stones possibly a wall running slightly east of North. No Ceramic material

The second set had a deposit of material in Y and in Y' a cut block angled approx. 45° west of North.

The third set revealed the edge of a possible wall and column drum in Z in Z' practically nothing

All the finds were approx. 0.60 to 0.70 m. below surface.

Soil 5y 4/1 dk. gray clay.

This site was met in the archaeological level.

INDEX TO LAYERS PZ - B1
 WEST EXTENSION OF NORTH-SOUTH TRENCH
INDICATES CHARCOAL

TOPSOIL

DUG
'80

- (B) GREY ASH & TILES
- (C) ASH, SMALL GRAVEL, CHARCOAL STREAKS
- (D) SILTY SAND & GRAVEL - OLIVE BROWN
2.5 Y ~~5/2~~ 4/4
- (E) GREYISH BROWN ASHY SOIL
2.5 Y 5/2
LAYER OF TILE, ~~FRAGS~~ CONTAINING CERAMIC DEPOSIT
- (F) PEBBLE WASH
- (G) TILE FRAG, LARGE FIELD STONES
10 YR 4/3 - 5/3
- (H) GREY FILL - XDRCE MATERIAL
MIXING ON EDGES WITH LAYER (C)
10 YR 4/2
- (I) ~~DENSE~~ AREA OF DENSER CHARCOAL CONTENT
- (J) GREY BROWN - ASH/CHARCOAL
10 YR 4/2
- (K) LENSE OF TILE FRAGS, PEBBLES
- (L) LT. GREY SAND
~~GREEN LAYERS~~ 5 Y 6/1
MIX W/ CLAY ~~FRAGS~~ SOME CERAMIC MIXER
- (M) VIRGIN SAND OR SAND/CLAY INTERFACE

CERAMIC DEPOSIT, TILE
10 YR 4/2

Q
GREY PEBBLY SOIL W/ FeO₂ STAIN
5Y 6/1

P
WHITE-GREY ASH .
TILE FRAGS

Q
O
DRK. GREY
5Y 4/1

R
YELLOW

S

CLAY

- (A) BROWN SOIL w/ GRAVEL WASHES - PERIODIC FLOODING (!)
- (B) SOIL DISTURBED BY IRRIGATION PIPE
- (C) LIGHT BROWN SOIL & GRAVEL
- (D) CONCENTRATION OF TILE, CERAMIC MATERIAL
- (E) GREY-BROWN SOIL - LITTLE MATERIALS
- (F) SAND - YELLOW
- (G) DARK GREY CLAY / SOIL WITH AREAS OF DARK BROWN SOIL (ORGANIC MATERIAL) LYING OVER ~~AREAS~~ TILES, STONES

(4) (TO BE BODIED) SANDS

(I) BROWN ORGANIC MATERIAL - DEBR

GREY / SAND - SPRING DEPOSIT