

The excavation of fossil locality 642

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Introduction

As narrated in chapter 7, this volume, locality 642 was discovered in the 1989 field survey, and was the largest fossil locality found in the Pabbi Hills. As already shown in Tables 7. 5- 10, over 4,200 specimens were collected here in 1989. It was decided to excavate this site in 1990

in order to retrieve well-preserved *in-situ* remains of taxonomically important animals, to investigate the taphonomic history of this locality, and to see if hominids had been involved in its formation.

Methods

The 1990 spring field season lasted for seven weeks, work taking place on the site from the 30th January until the 24th March. The first two days were spent carrying out a systematic surface collection of the area surrounding the locality. The results are listed in Tables 9. 9 – 11. The surface collection used the same collect zones as in 1989; i.e. as zones 1A, 1B, 1C, 2A, 2B, 3A and 3B. In addition, *in-situ* bone material, or clusters of surface fragments

within these zones were given find spot numbers (Table 9. 12), the location of which was recorded (see Figure 9. 11). Measurements of specimens are given in Table 9. 13. As shown, over 1000 new specimens were found that had eroded to the surface during the year following the 1989 collection. This would imply a very fast rate of erosion for this locality, as the 4,200 specimens found in 1989 might have resulted from no more than 5 years' erosion.

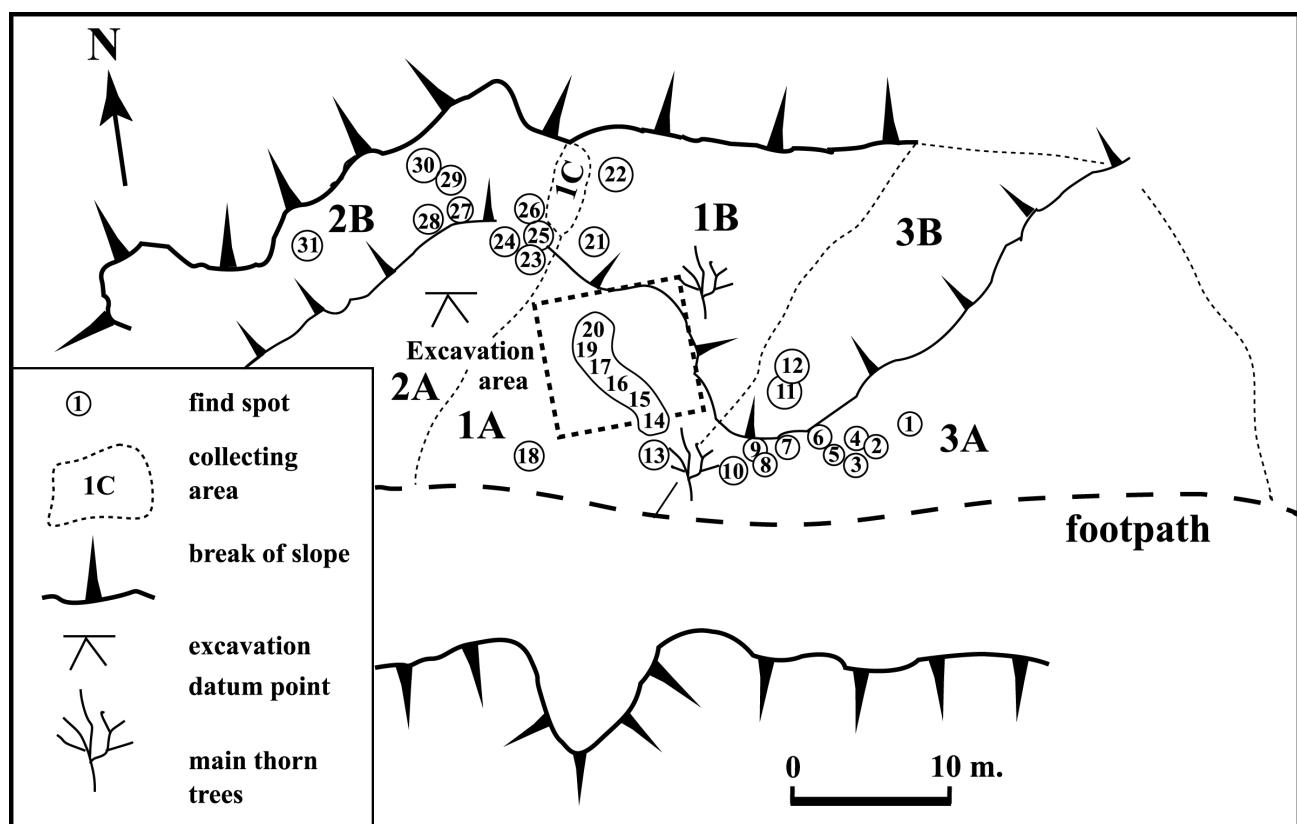


Figure 9. 11: Collecting zones, datum point, and find-spots at locality 642, 1990. The datum point here is the same as for the excavation grid, shown in Figure 9. 12. Based on field records by Mark Beech and Malik Sikander.

Figure 9. 12 shows the 8 metre square grid that was laid out on the site. The location of this grid was determined by the following factors:

- (1) there appeared to be a clear line of *in-situ* bone material eroding out of the slope.
- (2) the siting of the trench was immediately above the area where an almost complete *Equus sivalensis* skull and

many c.f. *Proamphibos lachrymans* and c.f. *Hemibos triqueticornis* horncores had been found in 1989.

(3) it appeared that a greater depth of sediment was preserved in that particular area of the site, and the adjacent areas of the site appeared more eroded, partially due to the presence of the nearby footpath. The area selected therefore was potentially less disturbed and contained a thicker fossiliferous horizon.

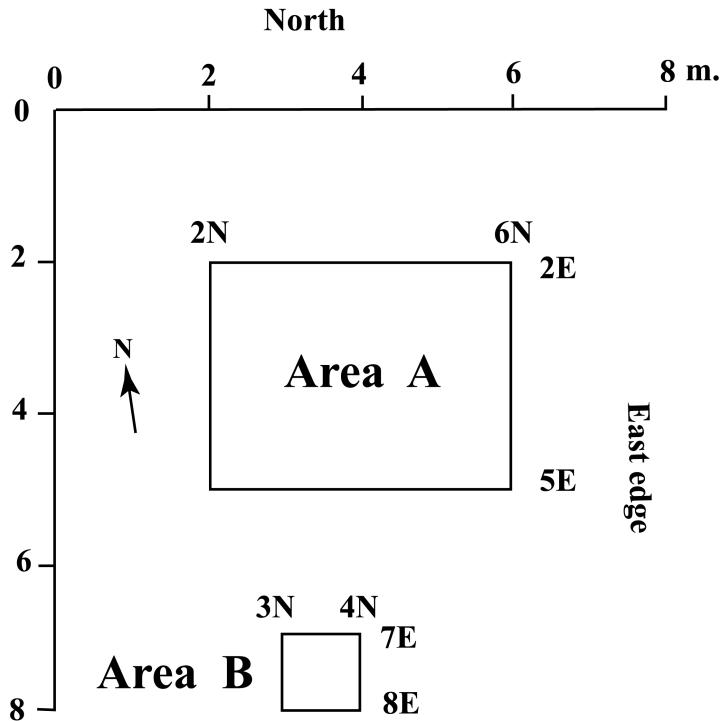


Figure 9. 12: Excavation grid and areas excavated at locality 642. The zero points are at the datum point shown in Figure 9. 11.

The area within the 8 metre square grid was firstly cleared of all loose surface material (extracting all thorn bushes, grass material and loose 1-3 cm diameter quartzite pebbles which were scattered over the general area). A 2cm spit of sediment was then removed from the entire area. It soon became apparent that due to the hardness of the sediment at the locality, it would not be possible to tackle the entire area in the time available. It was therefore decided to continue by excavating a strip one metre wide across the site (2-3 metres east/0-8 metres north), just above the line of visible *in-situ* material (running north-south) eroding out of the slope surface.

Excavation soon concentrated upon two principle areas (A and B) (see Figure 9. 12). Area A became the main area of excavation, and area B a subsidiary one. It seemed worthwhile to excavate area B because of the abundance of bones that were eroding out of this part of the site. However, the greater effort soon became concentrated on

area A when it became clear that the quality and general preservation of specimens found there were better than in area B.

All fossil specimens were recorded three dimensionally within the superimposed site grid. All grid references taken were measured from the central axis point of each bone. In addition, the orientation was noted for all bones with a long axis, as well as the angle of dip. A full catalogue of these finds is contained in Table 9. 14. Relevant measurements are shown in Table 9. 15. All specimens were planned at a scale of 1:10 (cm) at each appropriate level (if it was not possible to fit a bone onto the existing plan then a new plan was commenced). These are shown in Figures 9. 13 – 15 for area A, and Figures 9. 16 – 19 for Area B. Sections were drawn of each profile, but were generally uninformative beyond showing that fossil material was contained within brown silty-sands. The most informative section is shown in Figure 9. 20.

Results

The following were the main species were identified at site 642 in 1990:

c.f. *Hemibos triquetricornis* (Falconer, ? 1868).

The identification of this species is problematic. It has pear shaped to circular cross section in its horncores, and its horns diverge at up to 90 degrees. Further studies need to be carried out on this particular material.

c.f. *Damalops palaeindicus*: This species usually has horncores which are sub-triangular in cross section and which diverge at up to 45 degrees. Again further studies need to be carried out on this particular material. (This was initially identified as *Proamphibos lachrymans* (Pilgrim, 1939), but later revised in the light of Coard's study of the bovid material.

Pachycrocuta sivalensis (Matthew, 1929). It appears to be this species from the relative size of the teeth.

Table 9. 9: Fossil specimens from the surface of locality 642, zone 1, 1990

Zone	Specimen	W	Taxon	Element	Part	Other	N
1	88	4	Carnivora (Small)	Maxilla+Teeth	C,P2,P4 sockets		1
1A	8,17	5	Artiodactyl	Tooth	Split		2
1A	19	2b	Artio (Medium)	Humerus	Distal	Shaft	1
1A	12-16	3	Bovid	Horncore	Base		5
1A	17,18	3	Bovid	Horncore	Tine		2
1A	1	4	Bovid (Medium)	Mandible	PM3,PM4,M1 split	Worn, left	1
1A	2	3	Bovid (Medium)	Tooth, M1/2	Mod. wear	Complete, upper	1
1A	4	4	Bovid (Medium)	Tooth, Molar	Mod. wear	Split, lower	1
1A	5	5	Bovid (Medium)	M1/2	Complete	Worn, lower	1
1A	10	3	Bovid (Medium)	Mandible+Teeth	Fresh, Right	P2 fresh,P3 broken	1
1A	20	3	Bovid (Medium)	Radius	Proximal	Complete	1
1A	24,25	3	Bovid (Medium)	Metapodial	Distal barrel		2
1A	3	4	Equid	Tooth	Complete	Mod. wear; PM2 or M3	1
1A			Indeterminate	Fragments			21
1B	0		Artiodactyl	Tooth, PM	Complete	Worn	1
1B	0	5	Artiodactyl	Tooth	Split	Mod. wear	1
1B	0	5	Artiodactyl	Tooth, PM	No crowns		1
1B	0	4	Artiodactyl	Tooth	Split	Mod. wear	1
1B	3	4	Artiodactyl	Tooth, PM	Fragment	Lower	1
1B	7	5	Artiodactyl	Mandible	+ Teeth	1 broken, 1 root	1
1B	12,19,24, 28	4	Artiodactyl	Tooth	Split	No crowns	4
1B	20	5	Artiodactyl	Mandible	+ Tooth	Root	1
1B	83	4	Artiodactyl	Metatarsal	Shaft		1
1B	90	4	Artiodactyl	Tibia	Distal	Complete	1
1B	114	5	Artiodactyl	Metapodial	Distal barrel		1
1B	5	5	Artio (Large)	Mandible	+ Teeth	2 broken, 1 root	1
1B	0	4	Artio (Medium)	Tooth	Mod. wear	Crowns broken	1
1B	95,98	5	Artio (Medium)	Metapodial	Distal barrel		2
1B	94	4	Artio (Medium)	Humerus	Distal	Complete	1
1B	1	5	Bovid	Mandible	M1,M2	Worn	1
1B	4	4	Bovid	Tooth	PM Complete	Worn, Lower	1
1B	17	4	Bovid	Tooth	Complete, upper	Mod. wear, PM	1
1B	56	4	Bovid	Horncore			22
1B	77,78,84	4	Bovid	Horncore			3
1B	109	3	Bovid	Fibula	Distal		1
1B	0	4	Bovid (Large)	Tooth, PM	Complete	Mod. wear	1
1B	2	4	Bovid (Large)	Molar	Split	Worn	1

Equus sivalensis (Falconer and Cautley, 1868).

The diagnostic features of this species are as for *Equus* but it has a deep jaw (as contrasted with *Hipparrison*). In addition, the protocone of its premolars are very large in its 2nd molar. Generally speaking all the osteometric data appears to show a homogenous group of horses, all of which can be classified as *Equus sivalensis*.

Rhinoceros sivalensis (Falconer and Cautley, 1868).

The complete skull excavated from site 642 (specimen 1602) had the following diagnostic features characteristic of *Rhinoceros sivalensis*: a saddle shaped skull; a single horn; molars with parastyle, crochet absent, and concave ectolophs.

Further comparative data are presented in chapter 20, and Coard's assessment of the taphonomic history of 642 is presented after this report.

Table 9. 9 continued: Fossil specimens from the surface of locality 642, zone 1, 1990

1B	14	4	Bovid (Large)	Tooth, PM	Complete	Worn, Upper	1
1B	21,23	3	Bovid (Large)	Tooth	Split	Worn	2
1B	26	3	Bovid (Large)	Tooth	Complete	PM, lower	1
1B	89	5	Bovid (Medium)	Metacarpal	Distal		1
1B	78	3	Bovid (Medium)	Metatarsal	Proximal	Complete	1
1B	0	4	Bovid (Medium)	Molar	Mod. wear	Split	1
1B	0	4	Bovid/Cervid	Maxilla	+ Teeth	M1-3, mod. wear	1
1B	108	4	Carnivora	Radius	Proximal	Split	1
1B	82	3	Equid	Metacarpal	Distal	Complete	1
1B	101	5	Rhino	Tibia+Astrag	Distal		1
1B			Indeterminate	Fragments			192
1C	1	4	Artiodactyl	Mandible	+ Tooth	Split	1
1C	8,9,20, 17,44		Artiodactyl	Tooth	Split	No crowns	5
1C	13		Artiodactyl	Tooth, PM	Split, lower	Mod. wear	1
1C	0,18,32		Artiodactyl	Tooth	Split		3
1C	23,24,26,47		Artiodactyl	Tooth	Split	Worn	4
1C	71	4	Artiodactyl	Pelvis	Ichium		1
1C	73	4	Artiodactyl	Pelvis	Acetabulum		1
1C	89	5	Artio (Medium)	Metapodial	Distal barrel		1
1C	5	4	Bovid	Mandible	+ Teeth	PM split, M broken	1
1C	6	3	Bovid	Mandible	+ Tooth	Mod. wearM1/2	1
1C	22		Bovid	Tooth	Split	Mod. wear	1
1C	35	4	Bovid	Horncore			26
1C	10	4	Bovid (Large)	Tooth	Erupting	PM, Upper	1
1C	12	4	Bovid (Large)	Tooth PM	Complete	Worn, Upper	1
1C	31	4	Bovid (Large)	Tooth	Mod. wear	PM	1
1C	75	4	Bovid (Large)	Metacarpal	Proximal	Complete	1
1C	0	5	Bovid (Medium)	Radius	Proximal	Complete	1
1C	4	3	Bovid (Medium)	PM	Worn	Split, Upper	1
1C	65, 68,70,72	3	Bovid (Medium)	Humerus	Distal	Complete	4
1C	69	4	Bovid (Medium)	Radius	Proximal	Complete	1
1C	74	4	Bovid (Medium)	Metacarpal	Distal	Complete	1
1C	77	4	Bovid (Medium)	Metacarpal	Proximal	Complete	1
1C	82	4	Bovid (Medium)	Metatarsal	Shaft		1
1C	84	4	Bovid (Medium)	Metacarpal	Shaft		1
1C	96,97	4	Bovid (Medium)	1st Phalange	Proximal	Complete	2
1C	16, 27, 30	3	Bovid (Medium)	PM	Complete	Worn	3
1C	67,94	4	Carnivora	Shaft			2
1C	66	4	Cervid	Antler	Pedicel		1
1C	34	4	Hyaenid	Tooth			1
1C	100	4	<i>Rhinoceros</i>	Carpal	Complete		1
1C			Indeterminate	Fragments			113
Total							487

Notes: 1C 16 is upper, 1C 30, 65, 70 and 72 are left; 1C 68 is right.

Table 9. 10: Fossil specimens from the surface of locality 642, zone 2, 1990

Zone	Specimen	W	Taxon	Element	Part	Other	N
2B	15	3	Artiodactyl	Ulna	Proximal		1
2B	1	3	Artio (Medium)	Tooth	Complete		1
2B	2	4	Artio (Medium)	Tooth	Split		1
2B	16	3	Artio (Medium)	3rd Phalange	Proximal		1
2B	17	3	Artio (Medium)	Femur	Distal	Split	1
2B	14	4	Artio(Medium)	Radius	Proximal	Split	1
2B	12	4	Bovid	Horncore		1	1
2B	3	2b	Bovid (Large)	Tooth	Split	Fresh	1
2B	11	4	Bovid (Large)	Horncore	Tine	1	1
2B	4	4	Bovid (Medium)	PM Lower	Complete	Mod. wear	1
2B	5	4	Bovid (Medium)	PM Upper	Split	Mod. wear	1
2B	20	5	Bovid (Medium)	Metacarpal	Proximal	Complete	1
2B	22	4	Cervid	1st Phalange	Complete		1
2B	0,6,25	5	Indeterminate	Fragments			84
Total							97

Table 9. 11: Fossil specimens from the surface of locality 642, zone 3, 1990

Zone	Specimen		Taxon	Element	Part	Other	N
3B	20	4	Artio (Large)	Tooth	Split		1
3B	8, 10, 13	5	Artio (Medium)	Tooth	Split		3
3B	18	4	Artio (Medium)	Mandible	+ Tooth Split		1
3B	33	3	Artio (Medium)	Metatarsal	Shaft		1
3B	35	3	Artio (Medium)	Metatarsal	Proximal	Split	1
3B	46	4	Artio (Medium)	Humerus	Distal	Split	1
3B	91	3	Artio (Medium)	Humerus	Distal	Complete	1
3B	92	4	Artio (Medium)	3rd Phalange	Proximal		1
3B	93	4	Artio (Medium)	Radius	Proximal	Complete	1
3B	97	5	Artio (Medium)	Metapodial	Distal barrel		1
3B	23,24,30- 32,33,34	5	Bovid	Horncore			7
3B	25, 26	4	Bovid	Horncore	Tine		2
3B	28	4	Bovid	Horncore			1
3B	67-84*	3	Bovid	Horncore	Curved		18
3B	16	4	Bovid (Large)	Tooth, lower	Complete	Worn	1
3B	46	4	Bovid (Large)	Calcaneum	Shaft		1
3B	52	4	Bovid (Large)	Tooth	Molar, Upper	Complete	1
3B	56	4	Bovid (Large)	Split	Tooth		1
3B	61	4	Bovid (Large)	Tooth	Split		1
3B	96	3	Bovid (Large)	Calcaneum	Distal	Shaft	1
3B	44	3	Bovid (Medium)	Astragalus	Complete		1
3B	39	3	Bovid (Medium)	Humerus	Distal	Complete	1
3B	3	4	Bovid (Medium)	Mandible	+ Tooth	M1/2	1
3B	51	4	Bovid (Medium)	Mandible	+ M2, M3	Right	1
3B	53	5	Bovid (Medium)	Mandible	+ Tooth socket		1
3B	54	4	Bovid (Medium)	Mandible	+ M3	Right	1
3B	57	5	Bovid (Medium)	Mandible	+ Molar	Split	1
3B	1	5	Bovid (Medium)	Mandible + M3	Split		1
3B	36,37	3	Bovid (Medium)	Metatarsal	Proximal	Complete	2
3B	38	5	Bovid (Medium)	Molar Split	Worn		1
3B	62	5	Bovid (Medium)	PM, Upper	Complete	Worn	1
3B	47	4	Bovid (Medium)	Radius	Proximal	Complete	1
3B	21	4	Bovid (Medium)	Split	Worn	Molar	1
3B	64	5	Bovid (Medium)	Split M3	Right, upper	Tooth	1
3B	46	44	Bovid (Medium)	Tibia	Distal	Complete	1
3B	0, 15	3	Bovid (Medium)	Tooth	PM, Upper	Complete, worn	2
3B	11,17,59,66	5	Bovid (Medium)	Tooth	Split	Worn	4
3B	39	4	Bovid (Medium)	Tooth	Split	Mod. wear	1
3B	102	5	Bovid (Small)	2nd Phalange	Complete	Bambi?	1
3B	95	4	Bovid/Cervid	Metatarsal	Proximal	Complete	1
3B	2	5	Equid	Mandible	+ Tooth Split		1
3B	22	4	Equid	Tooth, lower	Complete, worn	Molar	1
3B	30,94	4	Equid	Metacarpal	Distal	Complete	2
3B	48	3	Rhino	Carpal	Complete		1
3B	4,60,63,65	5	Ungulata	Tooth	Split		4
3B	5	4	Ungulata/Rhino?	Tooth	Split		1
3A			Indeterminate	Fragments			133
Total							214

Note: * includes 3 tines and 2 curved pieces

Table 9. 12: Fossil specimens from find spots on the surface of locality 642, 1990

Zone	Find Spot	Specimen	W	Taxa	Element	Part	Other	N
3B	FS11	0	5	Artiodactyl	Tooth	Fragment		1
3B	FS11	5	3	Bovid (Medium)	Mandible, right	+ M1/2, erupting	Complete	1
3B	FS11	6	3	Bovid (Medium)	Mandible	+ Tooth	Split	1
3B	FS11	0		Indeterminate	Fragments			7
3B	FS12	6	5	Artio (Medium)	Maxilla	+Tooth	Worn, split	1
3B	FS12	various		Bovid	Horncore			8
3B	FS12	5	5	Bovid (Medium)	Mandible	M1/2	Worn	1
3B	FS12	4	5	Bovid (Medium)	M3, lower	Complete	Worn	1
3B	FS12	12	4	Bovid (Medium)	Molar, upper	Complete	Mod. wear	1
1A	FS13	0	5	Bovid	Horncore			4
1A	FS13	0	4	Indeterminate	Tooth	Fragments		50
1A	FS14	0	4	Bovid	Horncore			1
1A	FS14	2	4	Bovid (Medium)	Tooth	Split		1
1A	FS14	3	3	Bovid (Medium)	Maxilla	M3, mod. wear	Split	1
1A	FS14	0		Indeterminate	Fragments			8
1A	FS15	1	3	Artiodactyl	PM, lower	Complete	Worn	1
1A	FS15	2	3	Artiodactyl	Tooth			1
1A	FS15	3	4	Bovid (Small)	Maxilla	PM		1
1A	FS15	0	5	Indeterminate	Fragments			23
2A	FS17	2	4	Artio (Medium)	Tooth	PM	Fragment	1
2A	FS17	1	5	Equid	Tooth	Split	Worn	1
2A	FS17	0	4	Indeterminate	Tooth	Fragments		4
2A	FS18	1,2	3	Artiodactyl	Tooth	Fragment		2
2A	FS18	0	5	Indeterminate	Fragments			4
1A	FS19	3	4	Bovid	Horncore	Fragment		1
1A	FS19	1	4	Bovid (Medium)	Mandible	+ Teeth		1
1A	FS19	2	3	Bovid (Medium)	PM	Upper	Split	1
1A	FS19	14	5	Indeterminate	Fragments			12
1A	FS20	4	3	Artio (Medium)	Mandible	2 premolars	Erupting	1
1A	FS20	5	5	Bovid	Mandible	Tooth,split	Worn	1
1A	FS20	3	4	Indet/Carnivore	Radius	Distal		1
1A	FS20	1,2	5	Indeterminate	Fragments			2
1B	FS21	1	5	Artiodactyl	Tooth	Spall		1
1B	FS21	2	4	Bovid (Medium)	Molar, lower	Worn	Split	1
1B	FS21	3	3	Bovid	Horncore			1
1B	FS21	4,5	4	Indeterminate	Fragments			2
1B	FS22	3	3	Bovid	Horncore	Tine		1
1B	FS22	0	4	Indeterminate	Fragments			5
2B	FS23	1	5	Artio/Bovid	Mandible	+ Tooth		1
2B	FS23	3	4	Bovid (Medium)	Mandible	1 split	1 broken	1
2B	FS23	2	3	Bovid (Small)	Mandible, left	Tooth	1 split, broken	1
2B	FS23	19	4	Bovid (Small)	Metacarpal	Proximal	Complete	1
2B	FS23	0	5	Indeterminate	Fragments			140
1B	FS25	7	3	Bovid (Small)	Humerus	Distal	Complete	1
1B	FS25			Indeterminate	Fragments			6

Table 9. 12 continued: Specimens from find spots on the surface of locality 642, 1990

1B	FS26	1	4	Artio (Medium)	Tooth	Split	No crowns	1
1B	FS26	2	4	Artio (Medium)	PM	Complete	Worn	1
1B	FS26	3	5	Bovid	Horncore			1
1B	FS26	4	3	Bovid (Medium)	1st Phalange	Proximal		1
1B	FS26	5	3	Bovid (Medium)	2nd Phalange	Proximal		1
1B	FS26			Indeterminate	Fragments			5
2B	FS28	16	4	Artio (Small)	Calcaneum	Distal		1
2B	FS28	10	5	Bovid	Horncore			1
2B	FS28	1	4	Bovid (Medium)	Mandible	+ Tooth	Worn, split	1
2B	FS28	4	4	Bovid (Medium)	Tooth	Split	Erupting	1
2B	FS28	5	5	Bovid (Medium)	PM	Complete	Worn	1
2B	FS28	7,8	4	Bovid (Medium)	PM, lower	Complete	Worn	2
2B	FS28	14	4	Bovid (Medium)	2nd Phalange	Complete		1
2B	FS28	18	4	Bovid (Medium)	Metatarsal	Proximal	Complete	1
2B	FS28	18		Carnivore	Foot*			1
2B	FS28	0		Indeterminate	Fragments			38
2B	FS29	4	4	Artiodactyl	Tooth	Root		1
2B	FS29	5	4	Artio (Medium)	PM, lower	Complete	Worn	1
2B	FS29	6-9	5	Bovid	Horncore	Fragment		4
2B	FS29	2	4	Bovid (Medium)	PM, lower	Complete	Worn	1
2B	FS29	3	4	Bovid (Medium)	Molar, lower	No crowns	Split	1
2B	FS29	11	3	Bovid (Medium)	Metatarsal	Proximal	Complete	1
2B	FS29	0	5	Indeterminate	Fragments			41
2B	FS30	1,3	4	Artiodactyl	Tooth	Spall		2
2B	FS30	2	5	Artio (Medium)	PM, lower	Complete	Worn	1
2B	FS30	7	3	Artio (Medium)	Calcaneum	Distal	Shaft	1
2B	FS30	4	5	Bovid (Medium)	PM2, lower	Complete	Worn	1
2B	FS30	0	5	Indeterminate	Fragments			25
3A	FS4	1,2	5	Artiodactyl	Tooth	Spall		2
3A	FS4	0	3	Bovid	Horncore			1
3A	FS4	0	5	Indeterminate	Fragments			13
3A	FS9	1	3	Artiodactyl	PM	Complete	Lower	1
3A	FS9	8	4	Bovid (Medium)	Metatarsal	Shaft		1
3A	FS9	9	4	Bovid (Medium)	Metapodial	Distal barrel		1
3A	FS9	0		Indeterminate	Fragments			26
2A	XX	3	3	Bovid	Horncore			1
2A	XX	1	4	Ungulata	Mandible	+ Tooth	No crowns	1
2A	XX	2	5	Ungulata	Tooth	Split	No crowns	1
2A	XX	0	5	Indeterminate	Fragments			8
Total								570

Notes: The following find spots had only indeterminate fragments: Find spot 6, (zone 3A), 5 fragments; find spot 12 (zone 3B), 16 fragments; find spot 16 (zone 2A), 8 fragments; find spot 24 (zone 1B, 22 fragments; find spot 31 (zone 2B), 16 fragments.

FS28/18: carnivore foot - proximal metacarpals 1-5 fused together as a block

Notes on Table 9.13 (next page): Prox = Proximal; Dist = Distal; AP = anterior-posterior, W = Width

3B/51 Bovid Medium: M3, length = 30mm; M2 = 21.0mm.; FS25 1B/7:Bovid Small: cf 642/1/275; FS26 1B/4 Bovid: cf. 26/5; FS28 2B/14: cf. 30GB16; FS28 2B/18: squashed laterally; 1C/6: cf 3B/54; IC/65 and 1C/68; these may pair 1C70 and 1C/72; 3B/44 Astragalus: L= 45.0mm.; W = 30.0 mm.; Th. = 25.0mm.

Table 9. 13: Measurements (in mm.) of specimens from the surface collection of locality 642, 1990

Zone	Specimen	Taxon	Element	Length	Prox AP	Prox W	Dist AP	Dist W
3B	91	Artio (Medium)	Humerus, distal					42.0
1B	94	Artio (Medium)	Humerus, distal					51.0
1C	89	Artio (Medium)	Metapodial distal barrel				22.0	20.0
1B	95	Artio (Medium)	Metapodial, distal barrel, unfused				21.0	13.5
1B	98	Artio (Medium)	Metapodial, distal barrel				24.0	16.0
3B	97	Artio (Medium)	Metapodial, distal barrel				22.5	17.0
3B	35	Artio (Medium)	Metatarsal, proximal, split	29.0				
3B	93	Artio (Medium)	Radius, proximal	24.0	39.0			
1B	90	Artio (Medium)	Tibia, distal				31.0	39.0
1C	75	Bovid (Large)	Metacarpal, proximal	43.0	69.0			
3B	52	Bovid (Large)	Molar, upper	26.0				
705	1	Bovid (Large)	Radius, proximal	50.0	102.0			
3B	44	Bovid (Medium)	Astragalus, complete	45.0				
1C	6	Bovid (Medium)	Mandible + M1/2, mod.wear; right	22.0				
FS11	5	Bovid (Medium)	Mandible + M1/2 erupting	25.0				
3B	1	Bovid (Medium)	Mandible + M3	32.0				
3B	3	Bovid (Medium)	Mandible + M1/2, little wear	22.0				
3B	51	Bovid (Medium)	Mandible + M2,M3 *	30.0				
3B	54	Bovid (Medium)	Mandible + M3, little wear	28.0				
1A	2	Bovid (Medium)	M1/2, upper, mod. wear	22.0				
1A	5	Bovid (Medium)	M1/2, lower, worn	21.0				
FS12	4	Bovid (Medium)	M3, complete, worn	28.0				
FS12	12	Bovid (Medium)	Molar, complete, mod.wear	22.0				
FS26	4	Bovid (Medium)	1st Phalange, proximal		26.0	18.0		
1C	96	Bovid (Medium)	1st Phalange, proximal		25.0	19.0		
1C	97	Bovid (Medium)	1st Phalange, proximal		25.0	19.0		
FS28	14	Bovid (Medium)	2nd Phalange		21.0	16.5		
1C	70	Bovid (Medium)	Humerus, distal, left					47.0
1C	72	Bovid (Medium)	Humerus, distal, left					47.0
1C	65	Bovid (Medium)	Humerus, distal, right					50.0
1C	68	Bovid (Medium)	Humerus, distal, right					48.0
3B	39	Bovid (Medium)	Humerus, distal					48.0
1C	74	Bovid (Medium)	Metacarpal, distal				24.0	36.0
705	3	Bovid (Medium)	Metacarpal, distal				26.0	38.0
1C	77	Bovid (Medium)	Metacarpal, proximal		21.0	36.0		
2B	20	Bovid (Medium)	Metacarpal, proximal		20.0	32.5		
FS23	19	Bovid (Small)	Metacarpal, proximal		14.0	21.0		
FS9	9	Bovid (Medium)	Metapodial, distal barrel				25.0	20.0
1A	24	Bovid (Medium)	Metapodial, distal barrel				26.5	21.0
FS28	18	Bovid (Medium)	Metatarsal, proximal	41.0	39.0			
FS29	11	Bovid (Medium)	Metatarsal, proximal	30.0	29.0			
1B	78	Bovid (Medium)	Metatarsal, proximal		32.0	31.0		
3B	36	Bovid (Medium)	Metatarsal, proximal		32.0	36.0		
1B	89	Bovid (Medium)	Metacarpal, distal				23.0	34.0
1C	0	Bovid (Medium)	Radius, proximal		26.0	51.0		
1C	69	Bovid (Medium)	Radius, proximal		26.0	52.0		
3B	47	Bovid (Medium)	Radius, proximal		27.0	38.5		
3B	46	Bovid (Medium)	Tibia, distal				26.5	38.0
FS25	7	Bovid (Small)	Humerus, distal				22.5	26.0
3B	102	Bovid (Small)	2nd Phalange, complete	25.0	16.5	12.0	14.0	10.0
3B	95	Bovid/Cervid	Metatarsal, proximal		28.0	28.0		
2B	22	Cervid	1st Phalange, complete	62.0	24.0	19.0		
1B	82	Equid	Metacarpal, distal				33.0	45.0
3B	30	Equid	Metacarpal, distal				28.0	43.0
3B	94	Equid	Metacarpal, distal				34.0	46.0

Table 9. 14: Catalogue of locality 642 fossil specimens, excavated in 1990

Spec No.	Description	East	North	Depth	Orientation
1001-1010*	Bovid mandible and maxilla, + various long bone fragments	458	268	99.36	
1011	c.f. <i>Damalops</i> distal metatarsal	425	220	99.32	NW/SE, horizontal
1012-1017*	vertebra centrum (MM) + fragments	448	275	99.34	N/S
1018-1028*	<i>Damalops</i> maxilla, vertebra + fragments	446	275	99.44	NW/SE
1029-1034*	Vertebra centrum (MM)+ fragments	440	279	99.44	NE/SW
1035-1040*	<i>Damalops</i> mandible+ 2 cervical vertebra fragments (MM) + lbf	425	298	99.24	E/W
1041	<i>Damalops</i> horncore	400	298	99.24	E/W; horizontal
1042	Long bone fragment (LM)	442	700	99.63	NE/SW; horizontal
1043	Rib fragment (LM)	443	685	99.61	NE/SW
1044	<i>Damalops</i> horncore	460	630	99.66	
1045	Rib fragment (MM)	461	605	99.67	N/S; horizontal
1046	c.f. <i>Damalops</i> 1st phalange + smaller one, proximal unfused	505	656	99.36	E/W; horizontal
1047	Long bone fragment (MM)	512	685	99.34	N/S; horizontal
1048	Long bone fragment (MM)	518	684	99.34	E/W
1049	<i>Damalops</i> upper molar	518	712	99.26	E/W; horizontal
1050	c.f. <i>Damalops</i> , 2nd phalange	591	733	98.76	E/W; horizontal
1051	Long bone fragment (MM)	692	730	98.36	N/S
1052	<i>Damalops</i> mandible; 3 vertebra frags. (MM) + 2 long bone fragments	702	682	98.41	
1053	Thoracic vertbra (MM)	665	650	98.46	
1054	c.f. <i>Damalops</i> distal scapula	740	618	98.51	NW/SE; horizontal
1055	<i>Damalops</i> 2 upper molars + pelvis fragment	761	615	98.48	
1056	c.f. <i>Hemibos</i> distal metacarpal	768	535	98.41	N/S; horizontal
1057	cf. <i>Damalops</i> , ?tibia shaft	750	500	98.46	E/W
1058	<i>Damalops</i> horncore	675	540	98.47	N/S; horizontal
1059	<i>Damalops</i> horncore	616	285	99.21	
1060	<i>Damalops</i> horncore	660	142	98.76	
1061	<i>Damalops</i> horncore	722	221	98.56	
1062	<i>Rhinoceros</i> mandible, juvenile	245	335	99.47	
1063	Not used				
1064	<i>Damalops</i> PM + fragments	770	300	98.88	
1065	<i>Pachycrocuta</i> PM upper + Bovid (<i>Hemibos</i> and <i>Damalops</i>) fragments	425	220	99.41	
1066	<i>Damalops</i> mandible and prox. tibia, & other fragments (MM)	410	313	99.48	
1067	Long bone fragment (MM)	410	313	99.47	N/S; horizontal
1068-1075	<i>Damalops</i> maxilla and distal radius, + long bone fragments (MM)	425	220	99.38	N/S; horizontal
1076	c.f. <i>Damalops</i> distal metatarsal	787	302	98.88	NW/SE
1077	<i>Damalops</i> mandible	785	297	98.88	N/S
1078	<i>Damalops</i> horncore and tibia, and rib (MM)	780	306	98.87	NE/SW
1079	<i>Damalops</i> horncore and tibia shaft, c.f. <i>Damalops</i>	750	313	98.91	NW/SE
1080	c.f. <i>Damalops</i> humerus shaft	755	307	98.90	NW/SE
1081	c.f. <i>Damalops</i> humerus, proximal radius-ulna, + distal tibia, atlas, axis + 2 ribs	800	301	98.84	NW/SE
1082	c.f. <i>Damalops</i> proximal ulna	783	317	98.87	N/S
1083	c.f. <i>Damalops</i> mandible	780	312	98.86	NE/SW
1084	Bovid (c.f. <i>Damalops</i>) axis	761	316	98.92	
1085	Vertebra fragment	800	307	98.86	
1086	c.f. <i>Damalops</i> mandible fragment	795	310	98.86	
1087	c.f. <i>Damalops</i> mandible fragment	799	319	98.86	
1088	c.f. <i>Damalops</i> proximal radius	793	317	98.85	
1089	Rib fragment (MM)	789	290	98.83	N/S
1090	Vertebra centrum (MM)	795	303	98.83	
1091	Bovid (c.f. <i>Damalop</i>) atlas fragment	797	315	98.36	
1092	Fragment	777	304	98.87	
1093	Vertebra fragment	791	305	98.84	E/W
1094	Vertebra centrum (MM)	788	306	98.84	E/W
1095	Vertebra centrum (MM)	785	307	98.84	E/W
1096	<i>Rhinoceros</i> mandible fragment	215	325	99.31	
1097	c.f. <i>Damalops</i> mandible fragment	796	305	98.84	N/S
1098	Vertebra centrum (MM)	743	305	98.94	
1099	Vertebra centrum (MM)	737	312	98.94	
1100	<i>Damalops</i> mandible	396	316	99.54	

1101	Vertebra fragment	245	564	99.71	
1102	Bovid horncore (large)	255	562	99.81	N/S; horizontal
1103	Bovid horncore fragment	254	557	99.84	
1104	Fragment	249	550	99.84	N/S; horizontal
1105	c.f. <i>Damalops</i> proximal radius	285	553	99.82	N/S; horizontal
1106	<i>Damalops</i> horncore	295	556	99.82	N/S; horizontal
1107	Long bone fragment)	287	548	99.82	
1108	Long bone fragment (LM)	290	547	99.82	
1109	<i>Damalops</i> mandible	305	545	99.79	N/S; horizontal
1110	<i>Equus</i> maxilla	295	512	99.76	N/S; horizontal
1111	<i>Damalops</i> horncore	305	530	99.78	E/W; horizontal
1112	Fragment	236	487	99.90	
1113	<i>Rhinoceros</i> tibia shaft	815	322	98.80	NW/SE
1114	Rib fragment (SM)	818	320	98.79	NW/SE
1115	c.f. <i>Damalops</i> radius-ulna fragment	824	317	98.82	NW/SE
1116	<i>Damalops</i> skull & horncore	775	285	98.86	N/S
1117	<i>Damalops</i> maxilla	773	302	98.86	N/S
1118	Proximal rib fragment (MM)	762	297	98.24	NE/SW
1119	<i>Damalops</i> mandible	295	525	99.78	NW/SE; horizontal
1120	Fragment	304	532	99.79	
1121	<i>Damalops</i> horncore	295	530	99.81	E/W; horizontal
1122	Fragment	755	325	98.87	NW/SE
1123	<i>Damalops</i> horncore	307	536	99.82	E/W; horizontal
1124	<i>Damalops</i> horncore	314	540	99.82	E/W; horizontal
1125	<i>Damalops</i> horncore	320	530	99.80	N/S; horizontal
1126	Rib fragment (MM)	346	521	99.73	NW/SE; horizontal
1127	Bovid tooth fragment	353	518	99.72	
1128	Rib fragment (MM)	355	507	99.71	N/S; horizontal
1129	Fragment	352	502	99.70	
1130	<i>Pachycrocuta</i> 1st phalange	356	498	99.70	E/W; horizontal
1131	<i>Damalops</i> horncore	355	595	99.74	E/W; horizontal
1132	Bovid atlas, c.f. <i>Damalops</i>	822	320	98.80	
1133	Rib fragment (LM)	818	315	98.76	NW/SE
1134	c.f. <i>Damalops</i> distal metapodial	800	316	98.81	E/W
1135	c.f. <i>Damalops</i> metatarsal	827	317	98.82	NNE/SSW
1136	<i>Damalops</i> mandible	884	320	98.83	E/W
1137	Fragment	230	490	99.61	
1138	c.f. <i>Damalops</i> distal metapodial	270	437	99.67	
1139	Fragment	273	435	99.66	
1140	Long bone fragment (LM)	256	553	99.84	
1141	Bovid mandible + molar fragment	289	436	99.62	
1142	Tooth fragment	335	365	99.51	
1143	c.f. <i>Damalops</i> 2nd phalange	786	312	98.84	
1144	Fragments	774	315	98.85	
1145	c.f. <i>Damalops</i> horncore	271	256	99.54	NW/SE
1146	c.f. <i>Damalops</i> horncores (pair)	345	365	99.53	E/W
1147	Bovid horncore	445	294	99.40	E/W; horizontal
1148	Long bone fragments (MM)	345	368	99.51	
1149	Rib and long bone	400	288	99.50	E/W; horizontal
1150	Fragments	412	295	99.50	
1151	Bovid horncore tip	287	272	99.48	N/S; horizontal
1152-1161*		831	312	98.72	
1152-1154	3 articulated cervical vertebrae (MM)				
1155	<i>Damalops</i> mandible				
1156	c.f. <i>Damalops</i> metapodial				
1157	c.f. <i>Damalops</i> humerus				
1158-1161	Fragments				
1162	Bovid (large) carpal	430	295	99.36	
1163	c.f. <i>Hemibos</i> humerus	410	375	99.57	E/W; horizontal
1164	c.f. <i>Hemibos</i> horncore	246	560	99.87	E/W; horizontal
1165	c.f. <i>Hemibos</i> distal humerus	287	338	99.85	NW/SE; dip 30°
1166	Fragment	301	503	99.78	
1167	Long bone fragment (MM)	305	607	99.78	E/W
1168	c.f. <i>Damalops</i> metapodial fragment	307	607	99.78	E/W
1169	Bovid (medium) horncore	262	538	99.80	

1170	Bovid humerus & femur shafts	976	303	98.84	
1171	Bovid atlas	763	312	98.88	NW/SE
1172	Bovid 1st cervical vertebra	762	317	98.88	NW/SE
1173	Bovid 2nd cervical vertebra	758	323	98.89	NW/SE
1174	Bovid 3rd cervical vertebra	754	328	98.90	NW/SE
1175	Bovid 4th cervical vertebra	753	335	98.91	NW/SE
1176	Bovid 5th cervical vertebra	752	340	98.91	NW/SE
1177	Rib fragment (MM)	748	317	98.91	NW/SE
1178	Rib fragment (MM)	747	322	98.93	NW/SE
1179	Rib fragment (MM)	745	325	98.91	NW/SE
1180	Rib fragment (MM)	745	330	98.89	NW/SE
1181	<i>Hemibos</i> horncore & skull	772	310	98.86	NE/SW
1182	Rib fragments (SM)	425	298	99.28	
1183	Rib fragments (SM)	440	299	99.28	N/S
1184	c.f. <i>Damalops</i> humerus shaft	764	327	98.91	N/S
1185	c.f. <i>Damalops</i> distal radius	773	320	98.95	E/W
1186	Rib fragment (MM)	764	333	98.91	NE/SW
1187	c.f. <i>Damalops</i> carpal	783	313	98.90	
1188	Fragments	232	488	99.69	
1189	c.f. <i>Hemibos</i> astragalus	227	429	99.64	NW/SE; horizontal
1190	Fragment	250	464	99.60	
1191	Bovid tooth fragment	263	472	99.60	
1192	Fragment	265	453	99.56	
1193	Fragment	276	472	99.57	
1194	Fragment	277	482	99.57	
1195	Fragment	289	446	99.58	
1196	<i>Rhinoceros</i> tooth fragments	375	240	99.38	
1197	Long bone fragment (SM)	757	312	98.81	
1198	c.f. <i>Damalops</i> lower incisor	749	312	98.82	
1199	Vertebra fragment (MM)	790	295	98.81	NW/SE
1200	Rib fragment (MM)	772	293	98.83	N/S
1201	Fragment	770	332	98.82	
1202	Fragment	771	333	98.82	
1203	Rib fragment (SM)	737	325	99.91	
1204	c.f. <i>Damalops</i> tooth fragment	737	327	99.91	
1205	c.f. <i>Damalops</i> metacarpal	770	335	98.84	NE/SW
1206	<i>Damalops</i> mandible	380	298	99.43	NE/SW; horizontal
1207	c.f. <i>Hemibos</i> scapula	372	375	99.46	NE/SW; horizontal
1208	Vertebra fragment	385	389	99.46	
1209	Mandible	372	375	99.46	
1210	Scapula fragment (part of 1207)	372	375	99.46	
1211	Mandible fragment (part of 1209)	372	377	99.47	
1212	<i>Damalops</i> mandible	380	375	99.39	
1213	Rib fragment	774	327	98.88	
1214	c.f. <i>Damalops</i> carpal/tarsal	788	312	98.82	NW/SE
1215	<i>Equus</i> mandible	367	307	99.44	NW/SE; horizontal
1216	c.f. <i>Damalops</i> mandible	340	390	99.53	
1217	<i>Damalops</i> mandible	385	387	99.48	N/S; horizontal
1218	<i>Damalops</i> mandible	387	380	99.48	N/S; horizontal
1219	Long bone fragment (MM)	362	398	99.51	
1220	Bovid horncore (tip)	302	388	99.48	
1221	Fragments	422	299	99.30	
1222	Fragments	231	413	99.50	
1223	c.f. <i>Damalops</i> distal metapodial	265	420	99.55	E/W; horizontal
1224	Number cancelled				
1225	Proximal rib (MM)	782	321	98.86	E/W
1226	Bovid (med.) sesamoid	782	341	98.93	
1227	Fragment	782	342	98.83	
1228	Rib fragment (SM)	379	416	99.81	N/S
1229	Long bone fragment (MM)	435	388	99.59	
1230	c.f. <i>Damalops</i> distal femur	500	492	99.58	N/S; horizontal
1231	<i>Damalops</i> mandible	286	238	99.56	E/W; horizontal
1232-1237*	c.f. <i>Damalops</i> mandible	282	238	99.51	E/W; horizontal
1238	c.f. <i>Damalops</i> prox. radio-ulna	800	333	98.80	E/W
1239	c.f. <i>Damalops</i> distal humerus	800	340	98.80	E/W

1240	?Carnivore (small) femur shaft	790	325	98.81	N/S
1241	c.f. <i>Damalops</i> lower incisor	793	329	98.80	
1242-1246*	c.f. <i>Damalops</i> tibia + fragments	265	229	99.57	NE/SW; horizontal
1247	Metapodial fragment	270	241	99.47	
1248	c.f. <i>Damalops</i> 3rd phalange	272	239	99.42	
1249	Cervical vertebra (MM)	276	255	99.50	
1250	c.f. <i>Damalops</i> lower premolar	370	248	99.14	
1251	<i>Damalops</i> mandible	274	234	99.37	
1252	Proximal rib (MM)	350	380	99.47	
1253	c.f. <i>Damalops</i> distal metapodial	305	380	99.48	
1254	c.f. <i>Hemibos</i> navicular-cuboid	258	238	99.44	Horizontal
1255	c.f. <i>Damalops</i> metatarsal	270	242	99.47	NE/SW; horizontal
1256	Rib fragment (SM)	330	278	99.47	
1257	c.f. <i>Damalops</i> distal scapula	345	246	99.44	
1258	c.f. <i>Damalops</i> upper molar	345	240	99.43	
1259	Fragment	350	240	99.65	
1260	Mandible fragment	396	468	99.65	NE/SW
1261	Scapula fragment (MM)	396	479	99.69	E/W
1262	Long bone fragment (SM)	382	474	99.66	E/W
1263	Fragment (assoc. with 1255)	270	242	99.47	
1264	<i>Pachycrocuta</i> canine	442	388	99.56	
1265	c.f. <i>Damalops</i> upper premolar	447	379	99.53	
1266	<i>Rhinoceros</i> tooth fragment	355	265	99.39	
1267	Fragment	337	272	99.39	
1268-1270	Rib fragments (MM)	270	238	99.37	Horizontal
1271	c.f. <i>Damalops</i> metacarpal	772	322	98.81	NE/SW
1272	Long bone fragment	781	323	98.82	N/S
1273	Cervical vertebra	786	322	98.78	NNE/SSW
1274	Cervical vertebra	787	327	98.79	NNE/SSW
1275	Cervical vertebra	788	333	98.80	NNE/SSW
1276	Cervical vertebra	791	339	98.81	NNE/SSW
1277	Vertebra	800	327	98.84	
1278	Vertebra	798	337	98.82	
1279	Metapodial	800	320	98.78	E/W
1280	Thoracic vertebra	792	316	98.79	
1281	Fragment	797	319	98.79	
1282	Vertebra	794	306	98.79	
1283	Fragment	790	314	98.80	
1284	<i>Equus</i> distal scapula	350	390	99.49	
1285	Rib	397	345	99.43	N/S; horizontal
1286	Tooth	387	345	99.42	
1287**	<i>Pachycrocuta</i> mandible	390	305	99.46	N/S; horizontal
1288	c.f. <i>Damalops</i> mandible Fragment (ramus)	380	315	99.42	
1289	Teeth	355	260	99.45	
1290	Tooth	368	280	99.49	
1291	Vertebra	795	331	98.80	
1292	Vertebra	797	326	98.82	N/S
1293	Vertebra	798	330	98.78	N/S
1294	Long bone fragment	800	336	98.79	NW/SE
1295	c.f. <i>Damalops</i> mandible fragment				
1296	Rib	385	287	99.74	
1297	Horncore	432	349	99.53	
1298	3rd molar	452	356	99.50	
1299	Tooth fragment	453	356	99.50	
1300	Metapodial	448	374	99.52	NE/SW; horizontal
1301	Tooth fragment	345	285	99.49	
1302	Vertebra	796	335	98.82	
1303	Rib	279	241	99.43	
1304	Fragment	375	323	99.45	
1305	Fragment	460	360	99.50	Horizontal
1306	Tooth	290	260	99.48	
1307	Vertebra	800	313	98.81	
1308-1310*	2 vertebrae + ribs	800	306	98.83	N/S
1311	Vertebra	800	300	98.80	
1312	Rib	800	295	98.80	NW/SE

1313	Vertebra	812	307	98.88	
1314	<i>c.f. Damalops</i> mandible	803	323	98.78	
1315	Fragment	789	306	98.81	
1316	Fragment	793	350	98.84	
1317	Rib	387	476	99.64	
1318-1323*	Vertebrae	810	305	98.76	
1324	<i>Equus</i> upper molar	281	295	99.46	
1325	Fragments	340	270	99.44	
1326	Rib	365	280	99.40	
1327	Fragment	366	280	99.57	
1328	Sesamoid	795	331	98.80	
1329	Bovid horncore	439	385	99.55	N/S; horizontal
1330	Long bone fragment	279	302	99.43	N/S; horizontal
1331	<i>Hemibos</i> humerus (attached to 1472, 1473)	275	555	99.89	E/W; horizontal
1332-1335*	Teeth	255	306	99.43	N/S
1336	Rib	226	212	99.41	
1337-1347*	<i>Damalops</i> mandible Contents unclear	235	225	99.49	NE/SW
1348	Long bone fragments	326	371	99.39	
1349	Fragments	325	345	99.38	
1350	Rib	369	403	99.55	NW/SE
1351	<i>Damalops</i> mandible	355	435	99.56	E/W; horizontal
1352	Rib	394	447	99.57	E/W
1353	Long bone fragment	391	444	99.55	E/W
1354	Atlas	409	384	99.50	
1355	Tooth fragment	411	386	99.51	
1356	Long bone fragment	258	557	99.84	
1357	Long bone fragment	252	557	99.84	
1358	Long bone fragment	259	553	99.84	
1359	Long bone fragment	258	548	99.83	
1360	Scapula fragment	257	543	99.80	N/S; horizontal
1361	Fragment	265	532	99.81	
1362	Bovid horncore	266	526	99.93	N/S; horizontal
1363	Bovid horncore	268	524	99.84	NE/SW; horizontal
1364	Fragment	270	517	99.81	
1365	Long bone fragment	274	519	99.79	N/S
1366	Vertebra	274	525	99.82	
1367	Fragment	235	564	99.82	
1368	Fragment	235	558	99.80	
1369	Pelvis fragment	236	552	99.78	N/S; horizontal
1370	Fragment	233	550	99.79	
1371	Long bone fragment	227	552	99.80	E/W; horizontal
1372	Fragment	289	510	99.78	
1373	Long bone fragment	322	383	99.44	E/W; horizontal
1374	Rib	340	385	99.45	
1375	Rib	377	375	99.33	
1376	<i>Rhinoceros</i> tooth	249	284	99.43	
1377	Bovid horncore	253	276	99.42	NE/SW; horizontal
1378	Long bone fragment	375	382	99.32	E/W
1379	Long bone fragment	244	556	99.77	N/S; horizontal
1380	Vertebra fragments	258	547	99.78	Horizontal
1381	Fragments	268	546	99.78	
1382	Fragment	296	542	99.78	
1383	Fragments	296	505	99.78	
1384	Fragment	274	509	99.74	
1385	Fragment	276	510	99.74	
1386	Fragment	280	512	99.73	
1387	Fragment	286	509	99.72	
1388	Fragment	277	520	99.77	
1389	<i>Damalops</i> horncore	265	287	99.45	NW/SE; horizontal
1390**	<i>Pachycrocuta</i> maxilla	272	285	99.42	NW/SE; horizontal
1391-1393*	Part of horncore	265	287	99.45	
1394	Long bone fragment	280	280	99.47	E/W; horizontal
1395	Teeth	287	292	99.43	
1396	Tibia	262	260	99.45	NW/SW; horizontal
1397-1400	Maxilla and teeth	267	275	99.53	E/W; horizontal

1401	Fragment	310	406	99.49	
1402	<i>Damalops</i> mandible	350	443	99.55	NE/SW; horizontal
1403	Rib	370	470	99.52	E/W
1404	<i>Damalops</i> mandible	385	479	99.48	NE/SW; horizontal
1405	Rib	350	450	99.50	N/S
1406	Rib	351	448	99.51	NE/SW
1407	Radius fragment	205	579	99.91	NE/SW; horizontal
1408	Long bone fragment	257	581	99.90	NE/SW
1409	Fragment	263	562	99.79	NE/SW
1410	<i>Equus</i> scapula fragment	254	535	99.72	NW/SE; horizontal
1411	Fragment	225	565	99.73	N/S
1412	Long bone fragment	355	345	99.68	E/W
1413	c.f. <i>Hemibos</i> distal humerus	242	543	99.63	
1414	Fragment	238	545	99.61	
1415	<i>Damalops</i> mandible fragment	346	378	99.33	N/S; horizontal
1416	<i>Damalops</i> mandible fragment	280	270	99.44	NNW/SSE; horizontal
1417	<i>Damalops palaeindicus</i> complete skull				
1418	<i>Damalops</i> mandible	444	360	99.65	N/S; horizontal
1419	Scapula fragment	335	370	99.34	E/W; horizontal
1420	Rib	315	368	99.33	E/W; horizontal
1421	Rib	322	380	99.31	NE/SW; horizontal
1422	Rib	332	380	99.32	NW/SE; horizontal
1423	Rib	331	379	99.35	N/S; horizontal
1424	Long bone fragment	315	373	99.33	E/W; horizontal
1425	Rib	345	385	99.31	E/W; horizontal
1426	Rib	345	382	99.32	NE/SW; horizontal
1427	Rib	340	363	99.32	E/W; horizontal
1428	Rib	334	360	99.29	N/S; horizontal
1429	Scapula fragment	355	353	99.32	E/W; horizontal
1430	Maxilla	338	348	99.34	N/S; horizontal
1431	c.f. <i>Damalops</i> mandible	300	525	99.84	NE/SW; horizontal
1432	Fragment	205	561	99.68	E/W
1433	Fragment	209	562	99.67	
1434	Fragment	340	370	99.32	E/W; horizontal
1435	Rib	353	540	99.74	
1436	Bovid horncore	344	588	99.76	
1437	Rib	292	502	99.75	E/W; horizontal
1438	Fragment	285	516	99.70	
1439-1441	Fragments	235	523	99.60	
1442	Tibia	282	253	99.48	NW/SE; horizontal
1443	Bovid horncore	292	282	99.39	N/S; horizontal
1444	Bovid, pair of horns	285	283	99.42	N/S; horizontal
1445	Fragment	285	553	99.85	E/W
1446	Bovid horncore	275	536	99.76	NW/SE; horizontal
1447	Vertebra	313	380	99.25	N/S
1448	Bovid horncore	266	555	99.72	N/S
1449	Fragment	271	541	99.70	N/S; horizontal
1450	c.f. <i>Hemibos</i> proximal metatarsal	267	533	99.68	E/W; dips west 30°
1451	Fragment	276	288	99.43	E/W; horizontal
1452	Fragment	308	589	99.75	
1453	Rib	310	572	99.72	NE/SW
1454	Skull fragment	308	576	99.73	
1455	Long bone fragment	315	550	99.74	E/W
1456	Canine fragment	316	571	99.72	E/W; horizontal
1457	Scapula fragment	322	571	99.72	E/W; horizontal
1458	Vertebra	320	559	99.75	
1459	Metatarsal	328	570	99.72	NE/SW; horizontal
1460	Pelvis fragment	327	580	99.73	N/S; horizontal
1461	Humerus fragment	332	570	99.75	NE/SW; horizontal
1462	Rib	336	589	99.74	
1463	Rib	345	577	99.73	NW/SE; horizontal
1464	Rib	347	584	99.71	N/S; horizontal
1465	Rib	348	582	99.70	N/S; horizontal
1467-1471*	Block	280	275	99.47	
1472	Rib (attached to 1331)	292	554	99.87	E/W; horizontal

1473	Bovid horncore (attached to 1331)	292	556	99.87	E/W; horizontal
1474	<i>Damalops</i> mandible	360	285	99.20	E/W; horizontal
1475	Vertebra	347	278	99.10	
1476	Bovid teeth	357	283	99.30	
1477	Rib	348	283	99.05	E/W; horizontal
1478	Tibia	355	286	99.05	E/W; horizontal
1479	Humerus	357	284	99.05	E/W; horizontal
1480	Rib	367	282	99.05	
1481	Maxilla	365	292	99.40	E/W; horizontal
1482	Fragment	360	287	99.05	
1483	Tooth fragment	353	292	99.20	
1484	Long bone fragment	233	237	99.37	N/S
1485	Rib	270	250	99.33	E/W; horizontal
1486	<i>Equus</i> distal metapodial	417	330	99.52	E/W; horizontal
1487	<i>Damalops</i> mandible	436	336	99.51	
1488	<i>Damalops</i> mandible	435	337	99.48	NW/SE; horizontal
1489	Rib	437	327	99.50	E/W
1490	Rib	327	592	99.76	NE/SW; dips 15°
1491	<i>Damalops</i> mandible	322	576	99.73	NE/SW
1492	Vertebra	323	588	99.75	NE/SW; horizontal
1493	Vertebra	324	589	99.73	Horizontal
1494	Distal femur	333	567	99.77	NW/SE; dips 10°
1495	Distal femur	334	562	99.74	NW/SE; horizontal
1496	Rib	333	569	99.77	NW/SE; dips NW 10°
1497	Metatarsal	336	575	99.74	NW/SE; horizontal
1498	Rib	335	556	99.76	N/S; horizontal
1499	Scapula	327	511	99.72	E/W; horizontal
1500	Long bone fragment	370	540	99.75	NE/SW; horizontal
1501	Rib	324	589	99.75	NE/SW; horizontal
1501	Rib	324	589	99.76	NW/SE; dips 20°
1502	Metapodial fragment	440	344	99.66	NE/SW
1503	Rib	330	365	99.28	NE/SW; horizontal
1504	Rib	335	345	99.26	E/W; horizontal
1505	Rib	343	588	99.74	NW/SE; horizontal
1506	Fragment	339	578	99.72	NW/SE; horizontal
1507	<i>Damalops</i> mandible	275	260	99.46	NW/SE; horizontal
1508	Metapodial fragment	292	255	99.53	E/W; horizontal
1509	Rib	290	252	99.51	N/S; horizontal
1510	Bovid horncore	274	543	99.83	NW/SE; horizontal
1511-1515*	?Vertebra	335	383	99.25	
1516	Rib	324	592	99.73	NW/SE; horizontal
1517	Rib	340	355	99.28	N/S; horizontal
1518	Rib	338	355	99.25	NE/SW; dips E. 10°
1519	Rib	317	357	99.22	E/W; dips E. 10°
1520	Bovid tooth	337	567	99.74	NE/SW; horizontal
1521	Rib	315	365	99.25	E/W; horizontal
1522	<i>Damalops</i> mandible	292	260	99.41	E/W; dips W. 18°
1523	Long bone fragment	285	267	99.41	NW/SE; dips NW 30°
1524	Metapodial fragment	295	263	99.40	E/W; dips W. 45°
1525	<i>Damalops</i> mandible	280	270	99.42	NNW/SSE; horizontal
1526	Fragment	290	554	99.83	
1527	Bovid horncore	285	549	99.85	E/W; horizontal
1528	<i>Rhinoceros</i> metapodial	288	540	99.87	NNW/SSE; dips 30°
1529	Bovid metatarsal	280	540	99.84	E/W; horizontal
1530	<i>Rhinoceros</i> ulna	295	535	99.85	N/S; horizontal
1531	Metapodial	298	542	99.84	NNW/SSE; horizontal
1532	<i>Equus</i> mandible	285	537	99.82	N/S; horizontal
1533	Rib	363	362	99.23	E/W; horizontal
1534	c.f. <i>Damalops</i> mandible	368	340	99.24	N/S; horizontal
1535	Scapula fragment	375	355	99.28	E/W; horizontal
1536	Scapula fragment	360	375	99.25	N/S; horizontal
1537	<i>Equus</i> tooth	323	355	99.19	N/S; horizontal
1538	Long bone fragment	328	355	99.20	NW/SE; horizontal
1539	Rib	325	590	99.73	E/W; horizontal
1540	Long bone + rib fragments	330	340	99.26	

1541	Rib fragments	362	348	99.28	NE/SW; dips SW 20°
1542	Metatarsal block	290	273	99.42	NE/SW; dips 45°
1543-1548*	No data				
1542	<i>Rhinoceros</i> tooth fragment				
1549	Fragment	333	372	99.24	
1550	Long bone fragment	345	364	99.21	E/W; horizontal
1551	Long bone fragment	365	385	99.22	E/W; horizontal
1552	Rib	378	377	99.27	NE/SW; dips SW 10°
1553-1557*	Block				
1554	<i>Equus</i> distal metapodial				
1558 + 1559-1561*	1558 = c.f. <i>Damalops</i> mandible 1559-61 = Metapodial, teeth etc.	263	265	99.39	
1562	Bovid horncore	285	528	99.81	E/W; horizontal
1563	Bovid horncore	278	542	99.82	N/S; horizontal
1564	<i>Equus</i> incisor	284	543	99.80	N/S; horizontal
1565	Fragment	263	255	99.40	Horizontal
1566	Fragment	263	255	99.40	
1567	c.f. <i>Hemibos</i> prox. metacarpal	407	310	99.54	E/W; dips E. 10°
1568	Bovid metatarsal	395	305	99.53	NE/SW; horizontal
1569	Long bone fragment	415	310	99.52	E/W; dips E. 10°
1570	?Metatarsal	415	323	99.54	E/W; horizontal
1571	Cervical vertebra	430	329	99.54	
1572	Bovid molar	402	302	99.50	NE/SW; horizontal
1573	Tooth fragment	410	308	99.51	
1574	Bovid horncore	326	547	99.75	NE/SW; horizontal
1575	Bovid tooth	308	504	99.56	E/W; horizontal
1576	<i>Damalops</i> mandible	275	535	99.77	E/W; dips 30°
1577	Long bone fragment	405	323	99.58	
1578	Fragment	260	218	99.45	N/S; horizontal
1579	Atlas	402	291	99.51	Bovid
1580	Fragment	283	535	99.72	Horizontal
1581	Long bone fragment	261	536	99.72	E/W; horizontal
1582	<i>Equus</i> incisor	280	540	99.71	E/W; horizontal
1583	Long bone fragment	275	534	99.72	E/W; horizontal
1584	Long bone fragment	273	537	99.72	E/W; horizontal
1585	Rib	406	289	99.50	
1586	Long bone fragment	282	539	99.71	E/W; horizontal
1587	Bovid humerus	299	558	99.80	N/S; horizontal
1588	Metapodial	301	564	99.77	N/S; horizontal
1589	<i>Damalops</i> mandible	406	312	99.49	
1590	Bovid atlas	270	542	99.68	NW/SE; horizontal
1591	Fragment	295	550	99.66	Horizontal
1592*	c.f. <i>Hemibos</i> radius				
1593	Fragment	298	261	99.40	NE/SW; horizontal
1594	<i>Equus</i> incisor	305	255	99.34	N/S; horizontal
1595-1596*	No details				
1598	Rib	392	310	99.44	NE/SW; dips SW 15°
1599	Rib	392	310	99.44	NE/SW; dips SW 15°
1600	Rib	392	310	99.44	NE/SW; dips SW 15°
1601	Bovid metatarsal				
1602	<i>Rhinoceros</i> , complete skull	330	525	99.62	NW/SE, slight dip
1603	Rib	392	310	99.44	NE/SW; dips SW 15°
1604	Fragment	330	236	99.43	E/W; horizontal
1605	Fragment	343	547	99.57	Horizontal
1606	Vertebra fragment	328	566	99.64	N/S; horizontal
1607	Bovid teeth	304	528	99.50	N/S; horizontal
1608	Rib	385	298	99.44	E/W; horizontal
1609	<i>Equus</i> , complete skull	400	300	99.42	Dips SW 10°
1610	Fragment	299	247	99.34	Horizontal
1611	Scapula fragment	342	568	99.59	E/W; horizontal
1612	Long bone fragment	353	577	99.66	NE/SW; dips SW 15°
1613	<i>Rhinoceros</i> , prox. humerus unfused epiphysis	361	558	99.71	Horizontal
1614	Distal humerus	284	270	99.39	ENE/WSW; horizontal
1615	Incisor	292	270	99.40	

1616	Fragments	202	564	99.69	
1617	Rib	290	263	99.40	ENE/WSW; horiz.
1618	Rib	275	272	99.45	ENE/WSW; horiz.
1619	Not identified	435	380	99.64	NNW/SSE; dips SSE 10°
1620	Metapodial	297	265	99.38	E/W; horizontal
1621	Rib	297	265	99.38	E/W; horizontal
1622	Rib	297	265	99.38	E/W; horizontal
1623-1626*	Contents unclear	254	255	99.39	Horizontal
1627	Bovid pelvis	382	581	99.70	NE/SW; dips SW 10°
1628	<i>Rhinoceros</i> radius	406	565	99.65	NW/SE; dips 10°
1629	<i>Rhinoceros</i> metapodial	385	550	99.69	NW/SE; horizontal
1630	Bovid horncore	392	567	99.67	E/W; horizontal
1631	Bovid tooth	351	589	99.67	E/W; horizontal
1632-1636*	<i>Rhinoceros</i> mandible (juvenile)	430	410	99.65	NE/SW; horizontal
1637	Part of 1632				NW/SE; dips NW 10°
1638	Rib	426	380	99.63	E/W; dips W. 10°
1639-1644*	Scapula	255	255	99.36	NW/SE; dips 30°
1645-1649*	Long bone fragment	450	345	99.51	NE/SW; horizontal
1650-1652*	Scapula block	250	248	99.39	NW/SE; dips 20°
1653	Fragments	440	330	99.52	
1654	Fragment	249	244	99.38	NW/SE; horizontal
1655	Metatarsal	440	350	99.58	NE/SW; dips SW 5°
1656	? Metapodial	445	350	99.58	Dips SW 5°
1657	Vertebral column	390	600	99.68	NE/SW; horizontal
1658	?Vertebra	405	467	99.27	E/W; horizontal
1659-1664*	<i>Damalops</i> mandible	450	405	99.63	NE/SW; horizontal
1665	Tooth	416	457	99.76	N/S; horizontal
1666	Fragment	413	457	99.76	N/S; horizontal
1667	Bovid maxilla	226	220	99.41	NW/SE; dips SE
1668	<i>Pachycrocuta</i> canine	440	381	99.64	
1669	Rib	405	458	99.77	E/W; horizontal
1670	Rib	404	455	99.74	E/W; horizontal
1671	Rib	406	464	99.73	E/W; horizontal
1672	Bovid incisor	408	464	99.73	E/W; horizontal
1673	Rib	405	475	99.73	NE/SW; horizontal
1674	Rib	410	473	99.73	N/S; horizontal
1675	Rib	411	474	99.73	N/S; horizontal
1676	? Skull fragment	413	459	99.74	Horizontal
1677	Rib	420	465	99.72	E/W; horizontal
1678	Rib	421	460	99.72	E/W; horizontal
1679	Rib	407	468	99.72	NW/SE; horizontal
1680	Bovid radius	375	513	99.61	NE/SW; dips 15°
1681	Rib	393	559	99.62	NW/SE; horizontal
1682	Rib	390	586	99.57	E/W; dips E. 10°
1683	Scapula fragment	387	556	99.64	N/S; horizontal
1684	<i>Damalops</i> mandible	388	530	99.59	NE/SW; dips 15°
1685	Long bone fragment	392	524	99.51	NE/SW; dips NE 15°
1686	Bovid tooth	379	527	99.61	NE/SW; horizontal
1687	Bovid horncore	379	527	99.64	NE/SW; dips NE 10°
1688	Bovid horncore	383	518	99.69	E/W; dips W. 15°
1689	Bovid horncore	333	512	99.64	N/S; horizontal
1690	Bovid horncore	366	516	99.62	NE/SW; horizontal
1691	Bovid (small) maxilla	313	539	99.47	N/S; horizontal
1692-1696*	Metapodial	300	524	99.43	NW/SE; horizontal
1697	Bovid horncore (medium twist)	382	510	99.60	NE/SW horizontal
1698	Rib (SM)	424	460	99.69	NW/SE horizontal
1699	Bovid tooth	434	340	99.56	NW/SE horizontal
1700	Bovid (small) mandible	433	725	99.83	E-W horizontal
1701	Bovid atlas	405	395	99.64	
1702	Bovid (small) upper molar	415	398	99.62	N/S horizontal

1703	Rib (MM)	425	325	99.56	NE/SW horizontal
1704	Bone fragments concreted to 1703	420	325	99.56	
1705	Indeterminate fragment	403	330	99.57	
1706	Rib (MM)	400	442	99.62	E/W horizontal
1707	Bovid horncore	570	540	99.77	E/W, dips 5°
1708	Bovid horncore (medium twist)	589	538	99.72	E/W horizontal
1709	Bovid, pair of horncores + skull fragment, medium twist	563	525	99.75	N/S horizontal
1710	Rib (MM)	405	345	99.56	
1711	Rib (MM)	407	345	99.57	NW/SE horizontal
1712	Rib (MM)	400	346	99.56	N/S horizontal
1713	Rib (MM)	420	343	99.55	E/W horizontal
1714	Indeterminate mandible	423	355	99.62	N/S horizontal
1715	Bovid (small) proximal metapodial	415	435	99.57	NE/SW horizontal
1716	Bovid (small) proximal metatarsal	430	360	99.61	NNW/SSE, horizontal
1717	Bovid (small) proximal metapodial	420	360	99.61	E/W, horizontal
1718	Bovid (small) metapodial	428	356	99.60	NNW/SSE, horizontal
1719	Rib (MM)	422	346	99.61	N/S horizontal
1720	Rib (MM)	419	345	99.61	N/S horizontal
1721	Bovid (small) scapula	415	372	99.63	E/W horizontal
1722	Bovid (small) scapula	418	355	99.62	N/S horizontal
1723	Rib	408	367	99.58	E/W horizontal
1724	Bovid metacarpal, complete	312	524	99.49	NW/SE horizontal
1725	Long bone fragment	325	538	99.54	NE/SW, dips 10°
1726	Rib	326	535	99.56	NE/SW horizontal
1727	Rib	332	570	99.61	NE/SW horizontal
1728	Bovid (small) mandible (possible carnivore damage)	345	525	99.57	NW/SE, dips 5°
1729	Ulna fragment, LM	350	527	99.58	E/W horizontal
1730	Small carnivore (? Hyaenid) femur fragment	365	542	99.69	NE/SW horizontal
1731	Long bone fragment	367	524	99.68	N/S, dips 5°
1732	Bovid horncore, medium twist	367	533	99.65	NW/SE horizontal
1733	<i>Rhinoceros</i> tooth fragment	366	530	99.61	NW/SE horizontal
1734-1737*	Block; bovid horncore, ribs etc.	387	520	99.65	Horizontal
1738	Indeterminate fragment	327	530	99.48	NW/SE horizontal
1739	Bovid (small) mandible	415	450	99.75	E/W horizontal
1740	Metatarsal	410	377	99.63	NNW/ESE horizontal
1741	Bovid distal metatarsal; section cleaning in Area B	845	345	99.88	
1742	Indeterminate vertebra	845	342	98.86	
1743	Indeterminate atlas	845	338	98.84	
1744-1747	Fragments with 1741-1743				
1748	<i>Rhinoceros</i> humerus	378	522	99.49	NE/SW; horizontal
1749	Bovid horncore	556	542	99.77	E/W; horizontal
1750	Bovid horncore	570	542	99.76	E/W; horizontal
1751	Indeterminate fragment	573	542	99.75	Horizontal
1752	Bovid (small) atlas fragment	584	542	99.70	Horizontal
1753	Bovid (small) tibia fragment	580	534	99.73	E/W, dips 15°
1754	Rib	575	575	99.72	E/W; horizontal
1755	Bovid (small) mandible	583	537	99.70	NE/SW; horizontal
1756	<i>Rhinoceros</i> tooth fragment	388	530	99.51	NW/SE; horizontal
1757	<i>Equus</i> metapodial, complete	580	534	99.71	E/W; horizontal
1758	Indeterminate tibia fragment; part of block 1207	386	385	99.46	E/W; horizontal
1759	Indeterminate rib; attached to 1209; part of block 1207	372	375	99.44	

Notes: Specimen numbers marked by * were removed as plastered blocks. MM = medium mammal; LM = large mammal. Lbf = long bone fragment. Most indeterminate fragments are probably bovid, given that this is the commonest taxon in the assemblage. *Pachycrocuta*** = discussed in AT's report. The other *Pachycrocuta* specimens are extrapolated from these. Identifications of *Damalops* and *Hemibos* are based primarily on cranial, dental and horn-core specimens. Post-cranial identifications of each are primarily on the basis of size, and indicated as c.f. *Damalops* or *Hemibos*. Specimen 1700 was found eroding to the surface outside the main area of excavation.

Table 9. 15: Measurements (in mm.) of specimens from the excavation of locality 642, 1990

N.	Taxa	Element	Details	Length	ProxAP	ProxW	DistAP	DW
1011	Bovid	Metatarsal	Distal					39.6
1042	c.f. Damalops	1st phalange		59.2		20.0		
1050	Bovid	2nd phalange		33.0				
1065	Bovid	Tibia	Distal					38.3
1065	Bovid	Astragalus		46.0		29.1		
1076	Bovid	Metacarpal	Distal					36.6
1078	Bovid	Tibia		304				37.9
1081	c.f. Damalops	Radius	Proximal			52.3		
1081	cf. Damalops	Tibia	Distal					39.0
1088	Bovid	Radius	Proximal			50.8		
1135	Bovid	Metatarsal		254				
1205	Bovid	Metacarpal	BT 39.5?	261		39.7		
1223	Bovid	Distal	Metapodial					34.5
1253	Bovid	Metapodial	Distal					33.2
1255	Bovid	Metatarsal		258				
1724	Bovid	Metacarpal	Complete	265		40.0		39.8

Notes: ProxAP = proximal anterior-posterior; ProxW = proximal width; DistAP = distal anterior-posterior; DW = distal width. MM = medium-sized mammal; LM = large mammal.

1046: Two 1st phalanges of c.f. *Damalops*; larger one – Length = 59.2mm.; proximal breadth = 20.0; smaller one, unfused, proximal

1054: Bovid distal scapula: glenoid length = 52.3; possible carnivore damage.

1056: possible carnivore puncture mark.

1065: group of bones including maxillary premolar (*Pachycrocuta*); two horncores, mandible, four tooth fragments; distal tibia; astragalus (lateral length = 46.0, medial length = 44.7, distal breadth = 29.1) c.f. *Damalops*; calcaneum c.f. *Hemibos tricicornis*; and, four vertebra fragments, long bone fragment (large mammal) and fragments.

1066: group of bones incl. mandible and proximal tibia c.f. *Damalops*; vertebra centrum fragment (MM), two rib fragments (MM) and fragments.

1079: possible carnivore damage to horncore

1081: Articulated distal humerus, proximal radio-ulna, c.f. *Damalops* (prox. radius) and, distal tibia, c.f. *Damalops*; and, atlas, axis and two ribs (MM)

1096: mandible fragment (belongs with 1062), *Rhinoceros sivalensis*

1134: Bovid distal metapodial, possible carnivore damage

1135: Bovid metatarsal; possible carnivore damage; GL = 254.0

1155: Bovid mandible; possible carnivore puncture mark

1171: atlas, articulated with vertebrae 1172-1176*

1205: Bovid metacarpal GL = 261.0, Bp = 39.7, BT = 39.5mm.

1217: Bovid mandible. Tooth row GL = 98.1mm.

1223: Bovid distal metapodial; BT (est) = 34.5mm.

1238: Bovid proximal radio-ulna; possible carnivore damage; articulated with 1239*

1239: Bovid distal humerus; articulated with 1238*

1271: Bovid metacarpal; BT = 36.9, BT = 37.6mm.

1273: cervical vertebrae articulated with 1274-1276

1472: rib (attached to proximal humerus no.1331)

1473: horncore (attached to proximal humerus no.1331)

1525: mandible under 1416

1540: long bone and rib fragments. Disturbed by goat.

1616: fragments from section cleaning

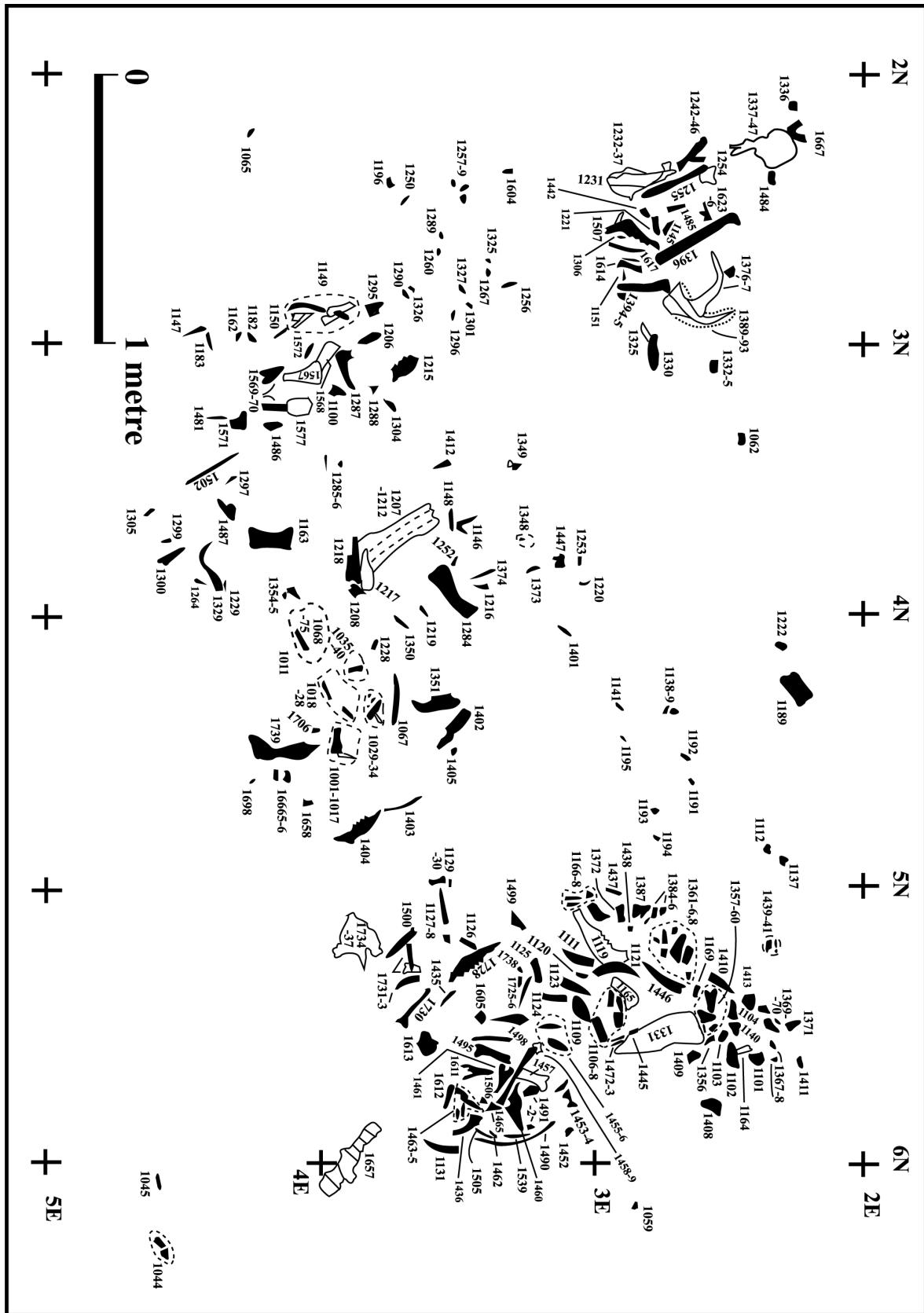


Figure 9. 13: Plan of excavation of locality 642, area A, level 1 (redrawn from original by Mark Beech and team).

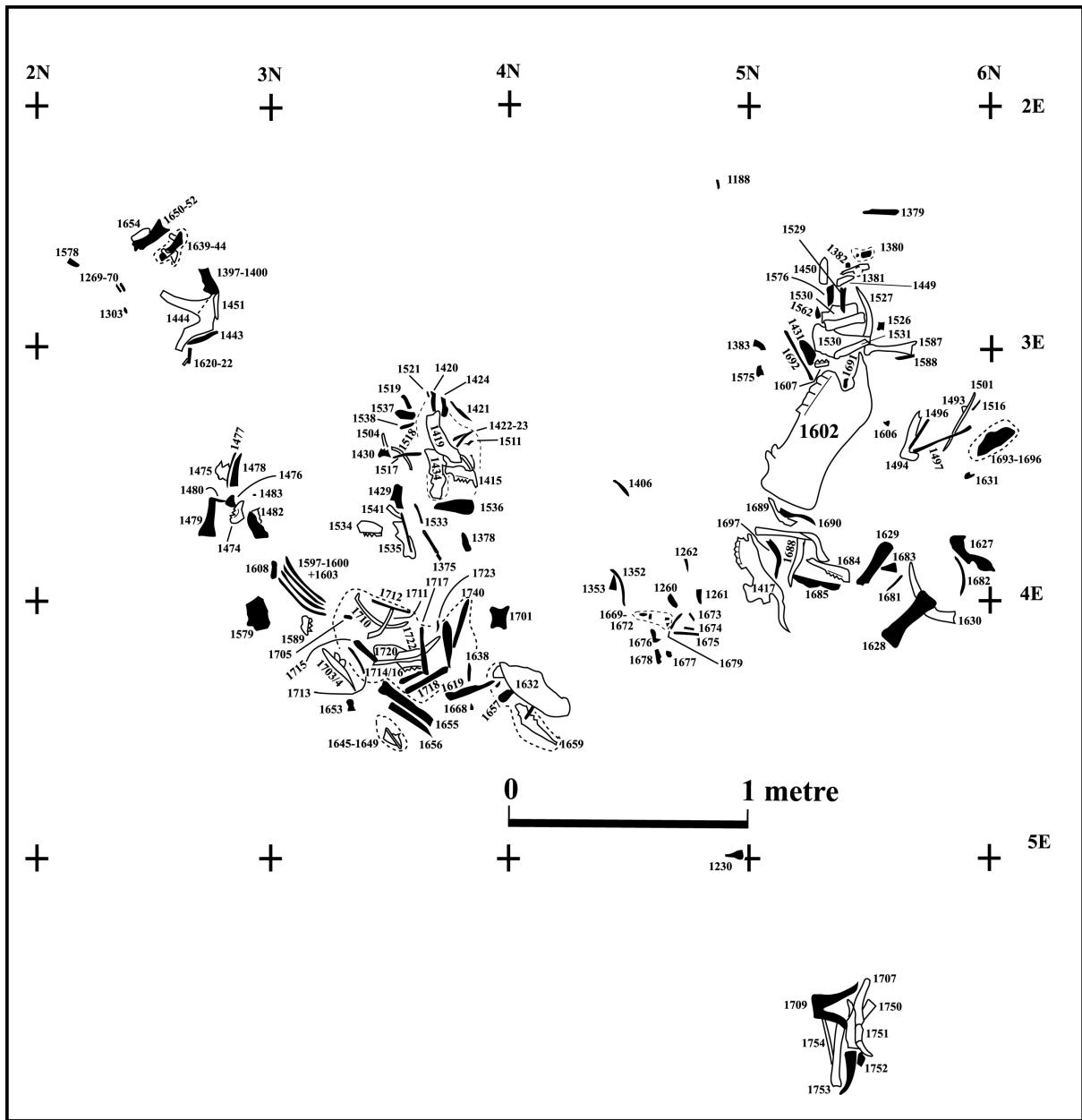


Figure 9. 14: Plan of excavation of locality 642, area A, level 2 (redrawn from original by Mark Beech and team).

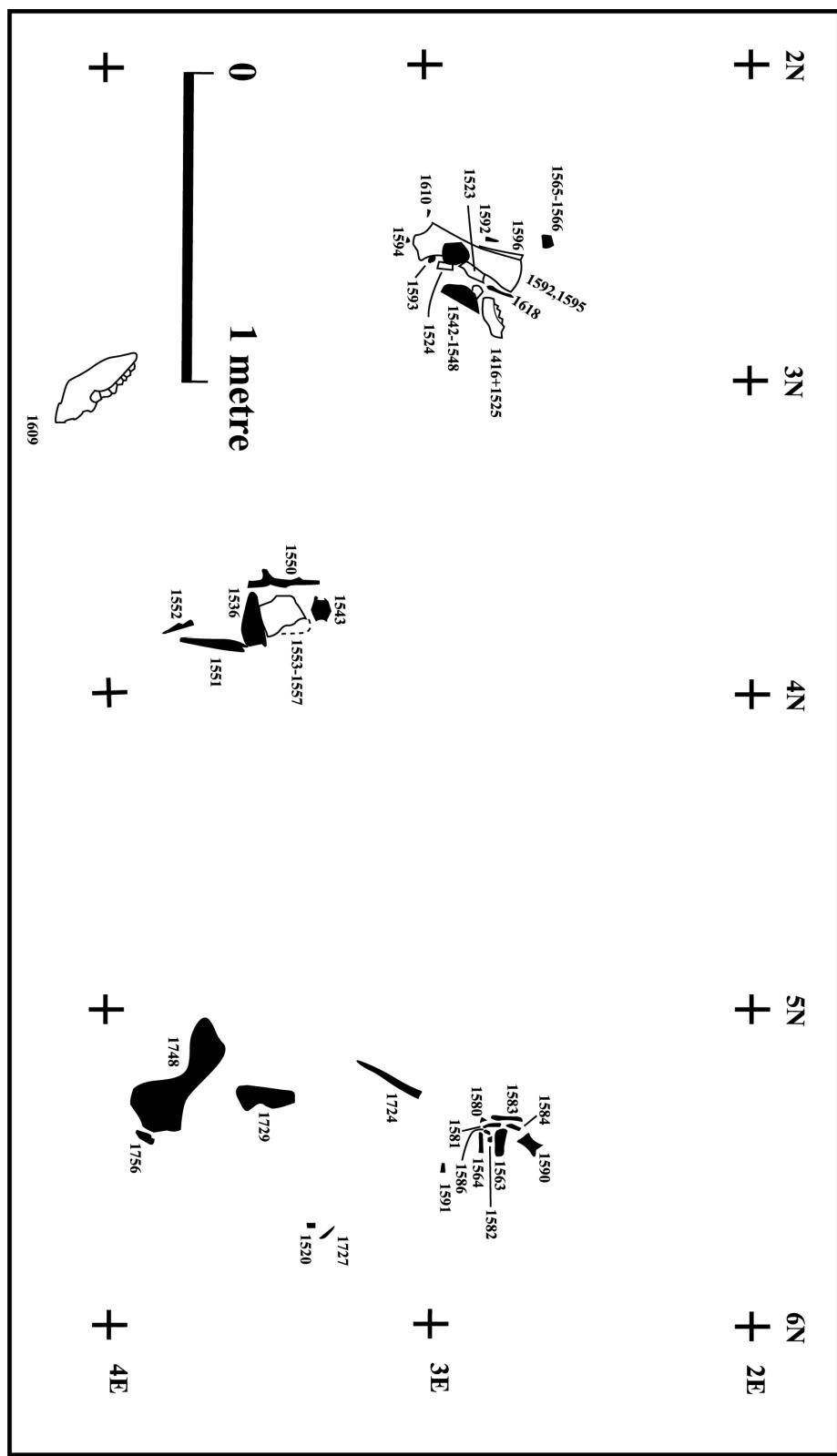


Figure 9. 15: Plan of excavation of locality 642, area A, level 3 (redrawn from original by Mark Beech and team).

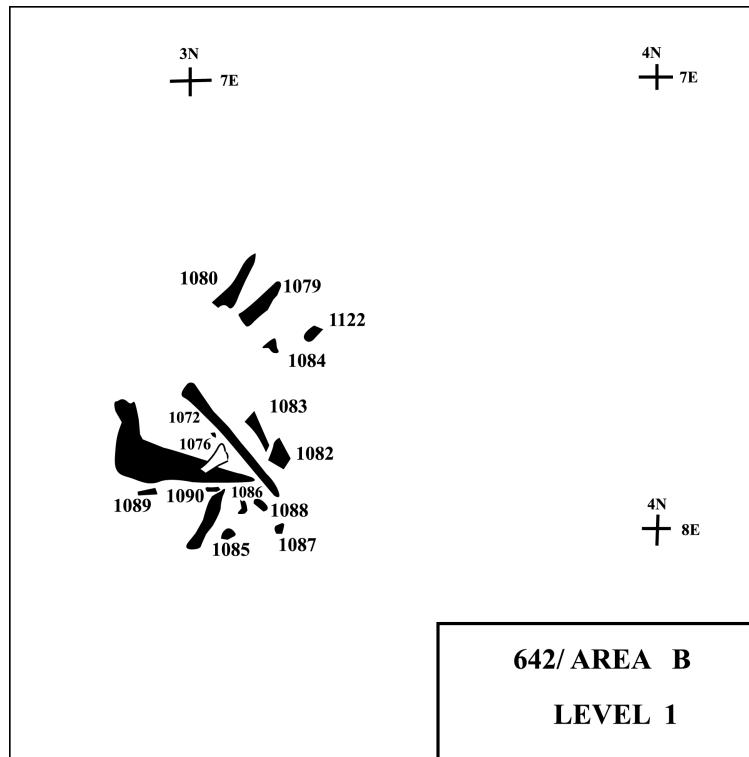


Figure 9. 16: Plan of excavation of locality 642, area B, level 1 (redrawn from original by Mark Beech and team).

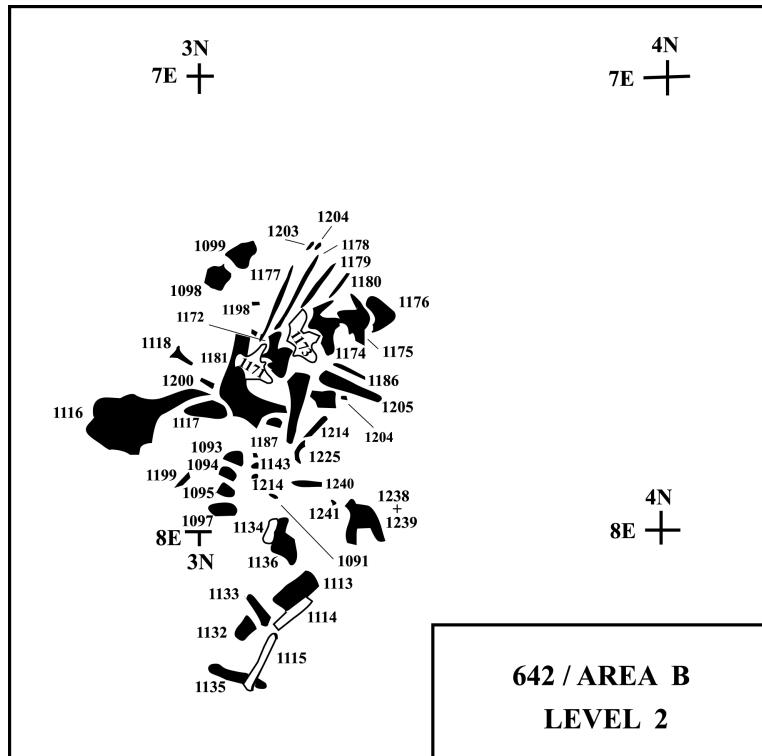


Figure 9. 17: Plan of excavation of locality 642, area B, level 2 (redrawn from original by Mark Beech and team).

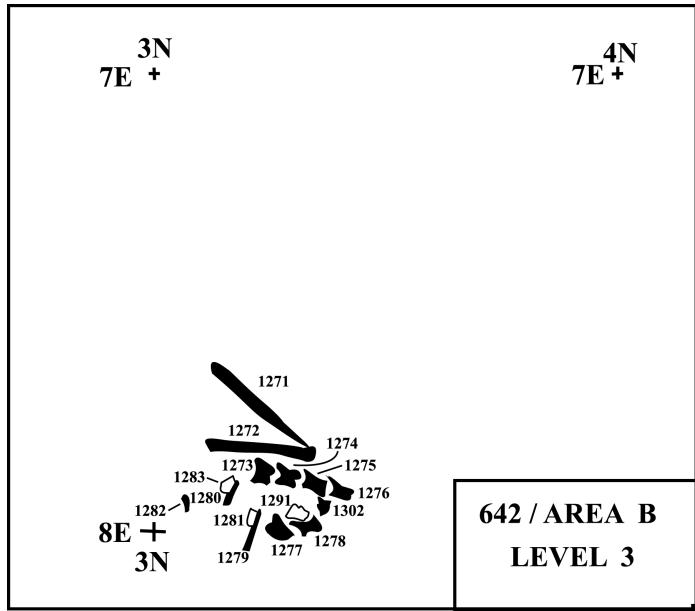


Figure 9. 18: Plan of excavation of locality 642, area B, level 3 (redrawn from original by Mark Beech and team).

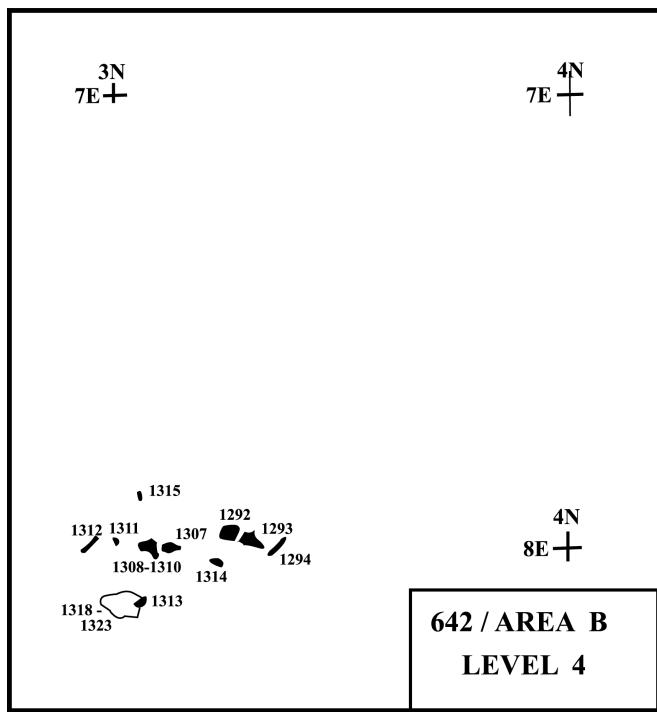


Figure 9. 19: Plan of excavation of locality 642, area B, level 4 (redrawn from original by Mark Beech and team).

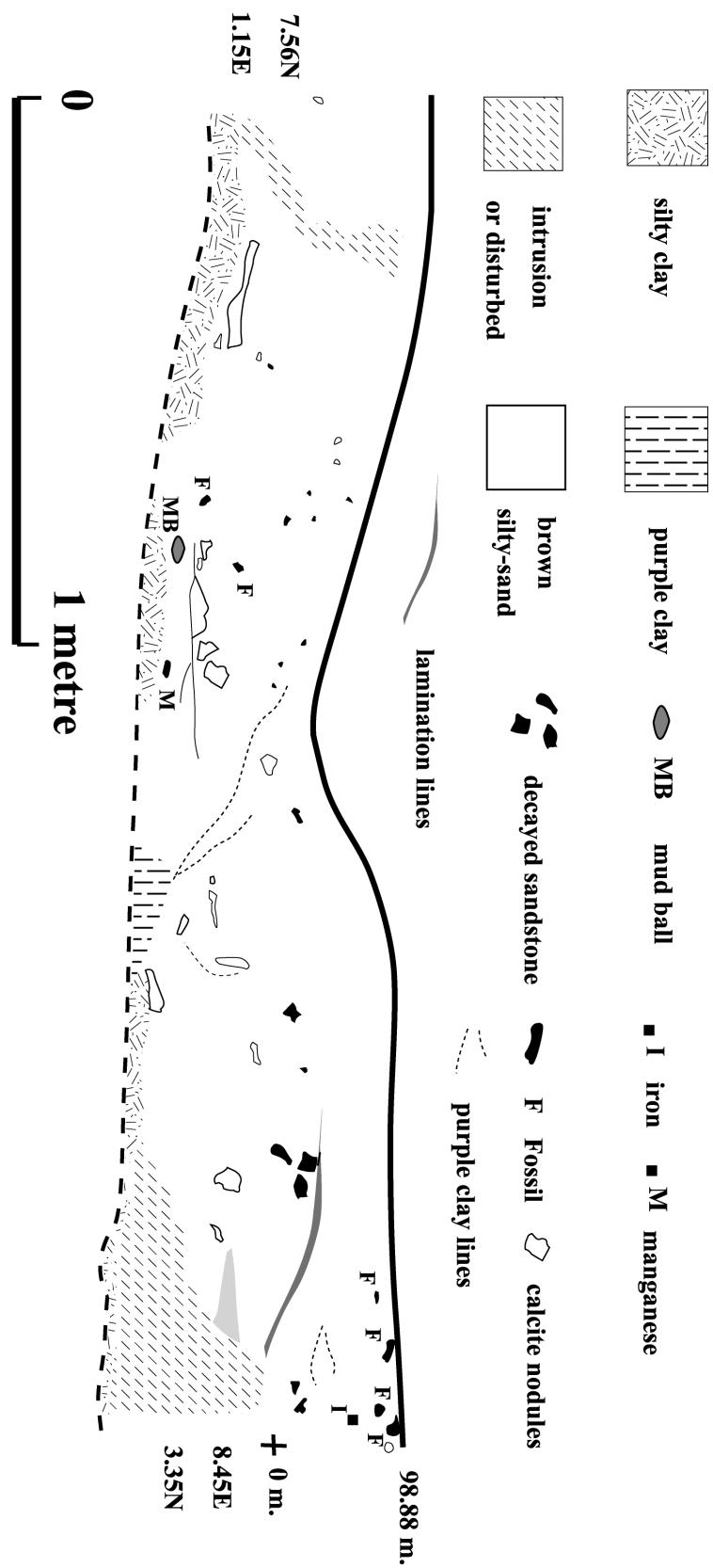


Figure 9. 20: East section of locality 642, Area B (redrawn from an original by Ros Coard)