

SURVEY BOOK 2

Calibration bearings at Priddy Hill Farm:

224 00	} True.
254 30	
264 30	

at Easton

039 50	True
219 50	

Coopers Hole to White Spot

STA	FS	BS	Bearing	Fore Cline	Dist.	Horiz.	Vert.	Altitude (corrected)
10-21		205 30	025 30	+8 30	66.0	65.8	+ 4.0	140.3
21-22	089 00	268 20	088 40	+3 15	98.0	97.8	+ 5.6	144.3
22-23	051 35	232 00	051 45	+5 35	98.9	98.4	+ 9.6	149.9
23-24	038 00	218 00	038 00	+2 10	99.6	99.5	+ 3.8	159.5
24-25	012 00	192 00	012 00	+4 00	97.5	97.3	+ 6.8	163.3
25-26	005 30	185 40	005 35	+6 45	82.0	81.4	+ 9.6	170.1
26-27	010 40	190 45	010 40	-0 30	34.8	34.8	- 0.3	179.7
27-28	037 45	217 10	037 30	+0 50	87.0	87.0	+ 1.3	179.4
28-29	058 50	238 20	058 35	+4 00	98.8	98.6	+ 6.9	180.7
29-30	081 40	261 30	081 35	+2 20	97.8	97.7	+ 4.0	187.6
30-31	088 30	268 50	088 40	+6 20	98.2	97.6	+ 10.8	191.5
31-32	064 00	244 00	064 00	+3 30	99.0	98.8	+ 6.0	202.3
32-33	042 10	222 30	042 20	+6 10	99.2	98.6	+ 10.7	208.3
33-34	089 00	268 10	088 30	+2 05	98.6	98.5	+ 3.6	219.0
34-35	082 00	262 00	082 00	+6 55	98.7	98.0	+ 11.8	222.6
35-36	092 20	272 20	092 20	+8 35	99.6	99.4	+ 6.2	234.4
36-37	080 00	260 00	080 00	+7 25	97.7	96.9	+ 12.6	240.5
37-38	077 00	256 50	076 55	+3 30	63.8	63.6	+ 3.9	253.1
38-39	006 10	185 45	006 00	+5 45	99.3	98.8	+ 9.9	257.0
39-40	025 20	205 30	025 25	+1 50	98.6	98.5	+ 3.2	266.9
40-41	085 10(?)	265 50	085 30	+7 30	85.5	84.7	+ 11.2	270.0
41-42	137 20	319 00	138 10	+4 40	95.6	95.3	+ 7.8	281.2
42-43	164 50	345 00	164 55	+9 50	100.0	98.7	+ 17.1	289.0
43-44	096 30	276 40	096 35	+7 20	97.6	96.8	+ 12.4	306.1
44-45	059 00	239 40	059 20	+10 00	99.6	98.0	+ 17.3	318.5
45-46	359 30	180 00	359 45	+4 00	99.2	99.0	+ 6.9	335.8
46-47	039 40	219 50	039 45	+4 20	99.2	98.9	+ 7.5	342.7
47-48	081 00	260 50	080 55	+2 20	97.2	97.1	+ 4.0	350.2
48-49	066 30	246 20	066 25	+7 40	98.6	97.7	+ 13.1	354.2
49-50	064 45	244 10	064 30	+3 20	96.8	96.6	+ 5.6	367.3
50-51	066 30	247 15	066 50	+19 05	88.6	83.8	+ 29.0	372.8
51-P	126 00		126 00	+3 40	13.8	13.8	+ 0.9	401.8
⊕ P								402.7

In Cheddar Gorge. Sept. 18th

48-52	082 00	262 00	082 00	+9 55	33.9	33.4	+ 5.8	354.2
52-53	123 20		123 20	+15 55	32.5	31.3	+ 8.9	360.0
53⊕								368.9
10⊕-54	131 45		131 45			5.5	-3.2	140.3
54								137.1
22-55	250 40	071 00	250 50	-1 10	32.8	32.8	- 0.7	149.9
55-PE⊕	306 20	128 00(?)	307 00	+19 10		143.7		149.2
PE⊕								200.1

In Cheddar Gorge. Sept. 19th 1963

30-56	028 20		028 20	+26 05		330.0	+161.7	191.5
32-56	353 00		353 00	+30 30		246.0	+145.0	208.3

STA	F.S.	B.S.	Bearing	Fore Sino	Disv.	HORIZ	Vert.	Alt.	Alt. O
34-56	311 00	/	311 00	+27 25	133.6	257.0	+133.6	222.6	
56-57	082 30	/	032 30	-20 40	8.3	7.8	- 2.9	by station	354.2
57 ⊕									351.3
48-63	/	/	/	+90 00	3.5	—	+ 3.5	354.2	
63-64	079 00	259 00	079 00	+2 40	63.4	63.3	+ 3.0	357.7	
64-65	057 50	237 40	057 45	+7 40	95.1	94.3	+12.7	360.7	
65-66	145 30	/	145 30	+39 20	55.1	42.6	+35.0	373.4	
66-67	/	016 30	196 30	+34 50	89.3	73.4 50.0	+51.0	408.4	
67-68	214 30	/	214 30	+45 40	75.5	52.9	+54.0	459.4	
68-69	/	347 30	167 30	+32 30	29.6	25.0	+15.9	513.4	
69-70	173 00	/	173 00	+51 00	95.8	60.1	+74.3	529.3	
70-71	/	307 00	127 00	+46 50	38.3	26.2	+27.9	603.6	
71-72	078 30	/	078 30	+21 10	43.7	40.8	+15.8	631.5	
72-73	/	240 30	060 30	+15 35	39.4	38.0	+10.6	647.3	
73-58	144 00	/	144 00	+35 15	22.6	18.5	+13.0	657.9	
58-59	108 00	288 30	108 15	+20 00	26.6	25.0	+ 9.1	670.9	
59-60	167 00	/	167 00	+35 50	40.7	33.0	+23.8	680.0	
60 ⊕	/	/	/					703.8	
58-61	/	349 30	169 30	+40 15	35.3	26.9	+22.8	670.9	
61-62	151 30	/	151 30	+30 20	23.5	20.3	+11.8	693.7	
62 ⊕	/	/	/					705.5	
63-74	/	150 00	330 00	+26 30	45.2	40.5	+20.2	235.2	
74-75	288 15	/	288 15	+ 3 10	71.4	71.2	+ 3.9	255.4	
75-76	/	235 00	055 00	+20 15	45.3	42.4	+15.6	259.3	
76-77	056 30	/	056 30	+ 6 20	21.0	20.8	+ 2.3	274.9	
77 ⊕	/	/	/					277.2	

Sept. 20th

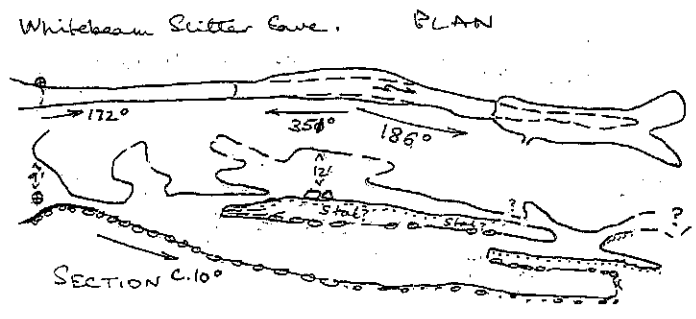
[illegible]

34 = 34 on p. 1.

57⊕ is drillmark at entrance to rift above quarry, at thigh-height on right-hand-side looking along rift.
48 = 48 on p. 1.

- ⊕ in big ash tree in Priddy Hole Slitter.
In Priddy Hole Slitter
- ⊕ in small ash tree in P.H. Slitter.
In P.H. Slitter.
- ⊕ in big ash tree in P.H. Slitter
In ash wood
- ⊕ in big ash tree.

UP PRIDDY HOLE SLITTER



TO WHITEBEAM SLITTER CAVE

60⊕ is in entrance to Whitebeam Slitter^{Cave}, at thigh-height on E. side.

TO BROCK HOLE

62⊕ is in entrance to Brock Hole, at chin height on E. wall: ⊕ ⊕

13 = 13 of Survey Bk 1 p. 37.

75 = Hawthorn Fork.

TO SUN HOLE

77⊕ is in Sun Hole entrance, at chest height in NE wall.

1963

Variation 8° 30' W.

AN = AN of Survey Bk 1 p. 35; SE corner of cottage at grove verge, RB.
Curve of rising, LB
In wall opposite Rising no. 2. LB
3' out from wall LB
Wall, RB (lake).
LB

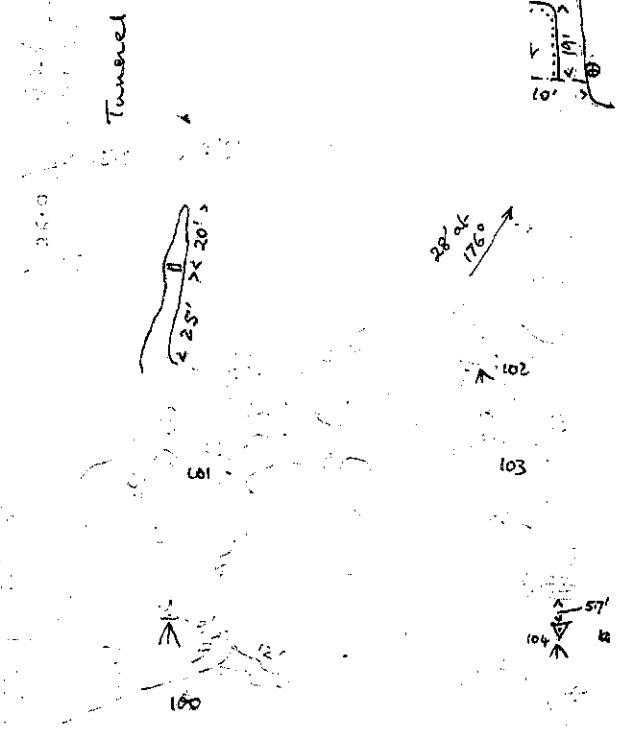
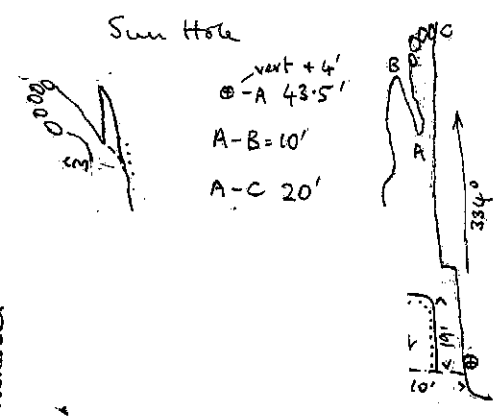
85⊕ in cliff at roadside at navel height.
Road opposite Cox's entrance

Bearings upset by presence of much ironwork.

Knob in top railing at Cox's Cave exit

TO COX'S CAVE

COX'S CAVE



COX'S CAVE

98 A

[illegible]

In Cheddar Gorge. Sept 25th 1963

97-106		115 50	295 50	+ 15 45	38.5	37.1	+ 10.4	353.6
106-107	036 00	217 20	036 40	+ 37 15	26.6	21.2	+ 16.1	364.0
107-108	313 30	136 00	314 45	+ 8 40	48.8	48.3	+ 7.4	380.1
108-109	277 30	097 50	277 40	- 6 50	37.7	37.4	- 4.5	387.5
109-110	278 00	097 00	277 30	- 18 25	50.7	48.0	- 16.0	383.0
110-111	319 40		319 40	- 23 30	24.8	22.8	- 9.9	367.0
111-112				- 90 00	1.6	0.0	- 1.6	357.1
112 ⊕								✓ 355.5

Up gorge from White Spk. July 17th 1964

[illegible]

Up gorge to Pig's Hdr. July 20th 1964

[illegible]

75 = 75 on p. 3.

Oak fork = 87

To Ivy CLIFF HALF-CAVE 10'

90 ⊕ at chin height, over entrance to low hole going in 4' at 343°

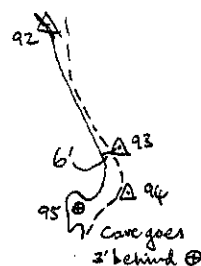
IVY CLIFF HALF-CAVE

94 = ash fork

95 ⊕ at thigh height above cave entrance

75 = 75 above.

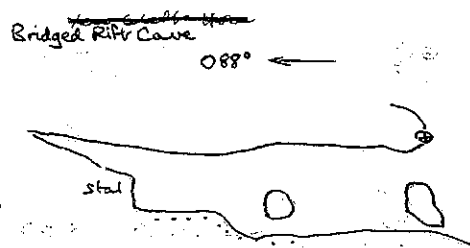
97 ⊕ is above head height in cliff facing south above yew tree.



TOWARDS ~~YEW CLIFF HOLE~~ BRIDGED RIFT CAVE

Fred. Variation 8.30 W.

To ~~Yew Cliff Hole~~
Bridged Rift Cave



112 ⊕ is at head height above entrance ~~Yew Cliff Hole~~ Bridged Rift Cave, in cliff facing west.

Angela. Variation 8° 50' W. (Luke's compass).

P = P on p. 1. Entrance to White Spot Cave.

Left verge 2' up LV = "Left" and "Right" in geographic sense, looking down valley
right verge 3' up
right verge ground level
" " 3' up.

118 ⊕ is at head height in small cliff facing road, below tiny overhang, c. 6' from road.
Variation 8° 50' W (Luke's compass).

RV 3' up.

⊕ facing up in small outcrop 6' from road + 3' higher, opposite Pittards Crows. (q.v. p. 19).

LV 3' up

LV ground level

RV 3' up

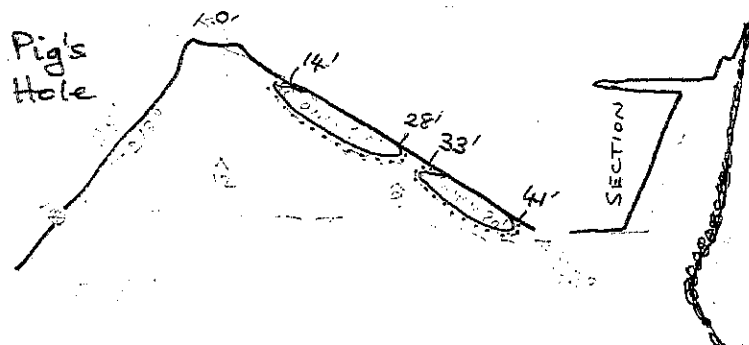
RV ground level

LV 3' up

RV ground level 4' off road

LV 3' up.

128 ⊕ is at head height on E. side of Pigs Hole, just below overhang, 5' above floor.

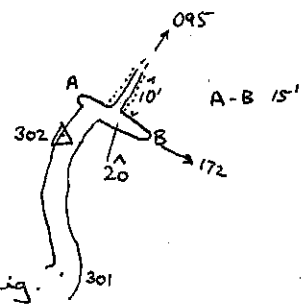


20,745	+ 1000	21,745
18,745	+ 100	18,845
19,012	+ 1000	20,012
20,108	+ 100	20,208
20,576	+ 100	20,676
20,695	+ 100	20,795
20,814	+ 100	20,914
22,606	+ 100	22,706
22,825	+ 100	22,925
23,144	+ 100	23,244
23,563	+ 100	23,663
23,982	+ 100	24,082
24,401	+ 100	24,501
24,820	+ 100	24,920
25,239	+ 100	25,339
25,658	+ 100	25,758
26,077	+ 100	26,177
26,496	+ 100	26,596
26,915	+ 100	27,015
27,334	+ 100	27,434
27,753	+ 100	27,853
28,172	+ 100	28,272
28,591	+ 100	28,691
29,010	+ 100	29,110
29,429	+ 100	29,529
29,848	+ 100	29,948
30,267	+ 100	30,367
30,686	+ 100	30,786
31,105	+ 100	31,205
31,524	+ 100	31,624
31,943	+ 100	32,043
32,362	+ 100	32,462
32,781	+ 100	32,881
33,200	+ 100	33,300
33,619	+ 100	33,719
34,038	+ 100	34,138
34,457	+ 100	34,557
34,876	+ 100	34,976
35,295	+ 100	35,395
35,714	+ 100	35,814
36,133	+ 100	36,233
36,552	+ 100	36,652
36,971	+ 100	37,071
37,390	+ 100	37,490
37,809	+ 100	37,909
38,228	+ 100	38,328
38,647	+ 100	38,747
39,066	+ 100	39,166
39,485	+ 100	39,585
39,904	+ 100	40,004
40,323	+ 100	40,423
40,742	+ 100	40,842
41,161	+ 100	41,261
41,580	+ 100	41,680
42,000	+ 100	42,100
42,419	+ 100	42,519
42,838	+ 100	42,938
43,257	+ 100	43,357
43,676	+ 100	43,776
44,095	+ 100	44,195
44,514	+ 100	44,614
44,933	+ 100	45,033
45,352	+ 100	45,452
45,771	+ 100	45,871
46,190	+ 100	46,290
46,609	+ 100	46,709
47,028	+ 100	47,128
47,447	+ 100	47,547
47,866	+ 100	47,966
48,285	+ 100	48,385
48,704	+ 100	48,804
49,123	+ 100	49,223
49,542	+ 100	49,642
49,961	+ 100	50,061
50,380	+ 100	50,480
50,799	+ 100	50,899
51,218	+ 100	51,318
51,637	+ 100	51,737
52,056	+ 100	52,156
52,475	+ 100	52,575
52,894	+ 100	52,994
53,313	+ 100	53,413
53,732	+ 100	53,832
54,151	+ 100	54,251
54,570	+ 100	54,670
54,989	+ 100	55,089
55,408	+ 100	55,508
55,827	+ 100	55,927
56,246	+ 100	56,346
56,665	+ 100	56,765
57,084	+ 100	57,184
57,503	+ 100	57,603
57,922	+ 100	58,022
58,341	+ 100	58,441
58,760	+ 100	58,860
59,179	+ 100	59,279
59,598	+ 100	59,698
60,017	+ 100	60,117
60,436	+ 100	60,536
60,855	+ 100	60,95

21-22 1963. Jim Giles & Nick Hart. Variation 8°30' W.

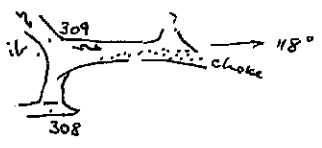
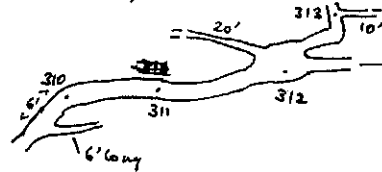
Vert	METHOD	NOTES
- 2.3	500.5	226 of Survey Bk 1 p. 75. Start of Sidcot passage.
- 2.6	500.5	Below 42' rift.
+ 0.6	500.5	Lowest point of squeeze
+ 5.9	500.5	1' beyond end of squeeze
- 5.0	500.5	Maypole aven at 11'.

SIDCOT
PASSAGE



+ 10.8	500.5	
+ 7.4	500.2	
+ 5.2	500.2	302 Δ is at chest height on left wall, 12' back from dig.
+ 19.8	400.1	215 of Survey Bk 1 p. 75. Above Shatter POT.
+ 0.7	500.3	Lip of drop down Shatter
+ 12.5	500.6	Δ 304 is at chest height in NE wall.
+ 10.4	500.1	
+ 23.6	500.5	

Dig 20' at 118°, 3' back from 309. Scaoping goes down it.

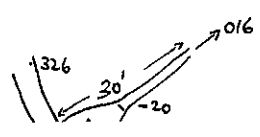


+ 4.4	500.1	
+ 5.8	500.5	
+ 6.7	500.3	
+ 6.4	500.0	
+ 3.0	500.2	
+ 1.7	500.4	

"SWINE - PUKE"
PASSAGES

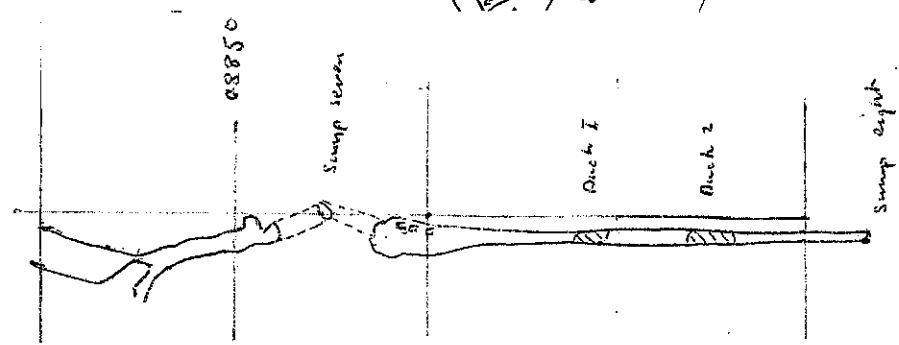
+ 7.5	500.1	Passage 20' to W.
+ 2.6	500.5	
+ 0.7	500.1	
+ 4.8	500.9	Rift down on left at 8'.
+ 6.9	500.7	
+ 2.7	500.3	
+ 7.2	500.5	
+ 3.7	500.5	
+ 10.8	500.2	
+ 5.7	500.0	
+ 3.7	500.7	
+ 11.9	500.5	
+ 9.2	500.2	

No tripod used.

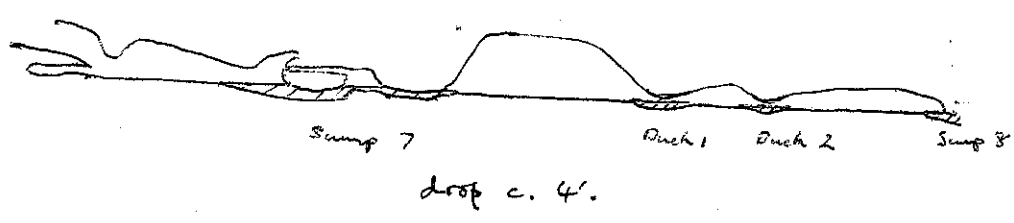


↓ in roof

corner = 327



SWILDON'S 8 by Mike Boon. Grade 1. 15.11.64



Up Cheddar Gorge from Pig's Hole.

STA	F.S.	B.S.	Bearing	Fore Clino	Dist.	Horiz	Vert	Alt	Alt c.
128-129	013 30	194 40	015 00	- 60 00	37.5	37.0	- 6.5	438.1	438.2
129-130	070 30	251 00	070 45	+ 2 35	97.6	97.5	+ 4.4	431.6	431.8
130-131	109 30	289 50	109 40	+ 4 20	99.0	98.7	+ 7.5	436.0	436.2
131-132	092 30	272 30	092 30	+ 0 45	99.6	99.6	+ 1.3	443.5	443.7
132-133	111 30	292 10	111 50	+ 4 00	98.8	98.6	+ 6.9	444.8	445.0
133-134	107 00	288 00	107 30	+ 7 30	40.3	43.9	+ 5.8	451.7	451.9
134								457.5	457.7
133-135	074 00	255 00	074 30	+ 1 10	98.2	98.2	+ 2.0	451.7	451.9
135-136	121 10	301 30	121 20	+ 4 00	97.6	97.4	+ 6.8	453.7	453.9
136-137	155 00	335 10	155 05	+ 0 20	96.0	96.0	+ 0.6	460.5	460.8
137-138	137 00	317 30	137 15	+ 4 20	97.5	97.2	+ 7.4	461.1	461.4
138-139	122 00	303 00	122 30	+ 1 20	97.6	97.6	+ 2.3	468.5	468.8
139-140	081 50	262 30	082 10	+ 3 40	97.2	97.0	+ 6.2	470.8	471.1
140-141	047 00	228 00	047 30	0 00	97.3	97.3	0.0	477.0	477.3
141-142	028 30	209 00	028 45	+ 4 00	98.0	97.8	+ 6.8	477.0	477.3
142-143	358 00	177 50	358 00	+ 0 50	97.0	97.0	+ 1.4	483.8	484.2
142-144	059 00	239 30	059 15	+ 17 50	30.2	28.8	+ 9.2		

144

143-145	034 00	210 10	034 00	+ 4 30	98.2	97.9	+ 7.7	485.2	485.6
145-146	055 10	235 10	055 10	+ 0 15	98.5	98.5	+ 0.4	492.9	493.3
146-147	082 20	263 00	082 40	+ 3 50	98.8	98.6	+ 6.6	493.3	493.7
147-148	105 00	286 00	105 30	+ 1 10	95.7	95.7	+ 1.9	499.9	500.3
148-149	145 00		145 00	+ 1 25	12.2	12.2	+ 0.3	501.8	502.3
149								502.1	502.6

Up the track to Blackbird Fissure.

150-151	163 50	344 00	163 55	+ 5 25	97.0	96.6	+ 9.2	530.0	669.0
151-152	208 30	028 00	208 15	+ 6 30	98.2	97.6	+ 11.1	530.0	
152-153	236 00	055 50	235 55	+ 10 50	98.5	96.9	+ 18.5	530.0	
153-154	270 00	090 00	270 00	+ 6 30	98.4	97.8	+ 11.2	530.0	
154-155	285 20	105 00	285 10	+ 8 10	98.5	97.5	+ 14.0	530.0	
155-156	298 50	113 30	293 40	+ 3 30	99.0	98.8	+ 6.0	530.0	
156-157	287 30	107 10	287 20	+ 6 40	96.5	95.8	+ 11.2	530.0	
157-158	294 00	113 10	293 35	+ 3 50	99.3	99.1	+ 6.7	530.0	
158-159	315 50	135 30	315 40	+ 3 25	98.3	98.1	+ 5.9	530.0	
159-160	344 40	165 00	344 50	+ 3 25	99.0	98.8	+ 5.9	530.0	
160-161	327 30	147 20	327 25	+ 5 30	99.6	99.1	+ 9.6	530.0	
161-162	359 00	179 00	359 00	+ 3 50	98.2	98.0	+ 6.6	530.0	
162-163	010 00	190 30	010 15	+ 4 20	57.1	56.9	+ 4.3	530.0	
163-164	016 40	197 00	016 50	- 12 45	18.2	17.7	- 4.0	530.0	
164								530.0	784.8

Around Blackbird Fissure and Totty Pk.

164-165	320 50	139 50	320 20	- 4 25	24.4	24.3	- 1.9	785.0	784.8
165-166	048 20	225 40	045 30	- 7 50	93.3	92.7	- 12.8	785.0	
166-167	064 20	243 30	063 55	- 18 50	97.8	92.5	- 31.5	785.0	
167-168	068 40	248 30	068 35	- 9 50	84.0	82.9	- 14.4	785.0	

July 22nd 1964. Alan and Barbara. Variation $8^{\circ}40' W$. (Luke's compass).
 N O T E S

⊕ 128 is Pig's Hole, see p. 5.

LV, 3' up.

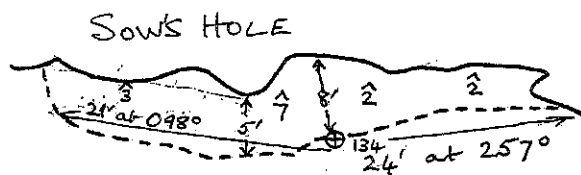
RV 1' up

LV 3' up

RV ground

LV 3' up

Sow's Hole drillmark, 6' up in cliff over centre of entrance.



RV ground

RV 3' up

LV ground

LV 3' up

LV ground

LV 3' up

LV ground

LV 3' up

Entrance to Sparry Fissure, 3' up in cliff just to right of entrance.

RV ground

RV 4' up.

RV ground

RV 4' up

LV 2' up

Benchmark 502.6

August 8th 1964. Angela & Jen. Variation $8^{\circ}40' W$ (Luke's compass).

⊕ 150 is top of south end of ^{wooden} hinge post on gate to track up to Totty Pot. Track averages 9' wide.

LV

LV

LV

LV

LV

RV

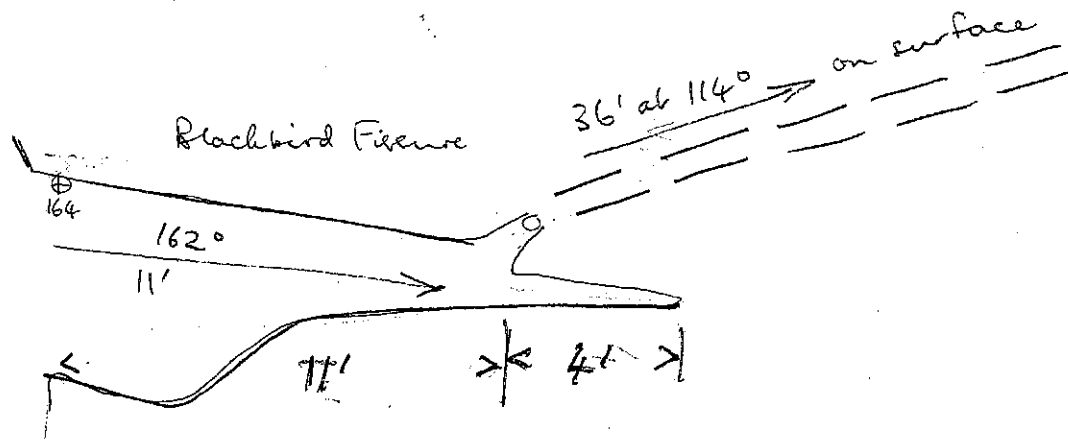
LV

LV

RV Wall crossed at 40.0'

RV

RV



In cliff at entrance to Blackbird Fissure, 5' above floor, 1' below top of cliff.

August 11th 1964. Variation $8^{\circ}50' W$. (Luke's compass).

Blackbird Fissure drillmark, see above.

STA	FS	BS	Bearing	Fore Cline.	Dist.	Horiz	Vert.	Alt.	ALT.C.
168-169	083 00	267 30	082 45	- 14 00	95.6	92.8	- 23.1	720.2	
169-170	084 50	264 30	084 40	- 20 00	64.1	60.2	- 22.0	701.5	
170-171	059 50	239 50	059 50	- 6 50	40.7	40.4	- 4.8	693.5	
171-172 F 172	067 00	247 00	067 00	- 17 35	75.6	72.1	- 22.8	674.0	651.3
164-173	174 30	355 30	175 00	+ 16 20	13.1	12.6	+ 3.7	784.8	784.8
173-174	236 30	056 30	236 30	+ 1 25	74.4	74.3	+ 1.8	783.5	
174-175	269 30	089 60	269 20	+ 1 50	86.8	86.7	+ 2.8	785.2	
175-176	313 40	133 30	313 35	+ 2 35	96.8	96.7	+ 4.4	789.6	
176-177	337 10	157 30	337 20	+ 3 50	89.1	88.9	+ 6.0	795.6	
177-178	350 10	170 00	350 05	- 0 55	71.8	71.8	- 1.1	792.5	
178-179	285 40	105 60	285 25	+ 3 50	82.5	82.3	+ 5.5	801.4	
179-180	287 00	106 40	286 50	- 0 40	65.2	65.2	- 0.8	799.6	
180-181	281 30	101 10	281 20	+ 3 00	47.8	47.7	+ 2.5	805.5	
181-182 182 ⊕	002 00	184 30	005 45	- 32 40	13.6	11.4	- 7.4	795.5	

Upgorge from near Bone Hole to near Spider Hole

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
183	149	183	040 10	220 30	040 20	+ 3 50	16.2	16.2	+ 1.1	502.6	502.6	
184	183	184	089 10	269 30	089 20	+ 1 00	89.7	89.7	+ 1.6	503.7	503.7	
185	184	185	138 00	317 50	137 55	+ 3 20	97.1	96.9	+ 5.6	505.3	505.3	
186	185	186	130 10	310 00	130 05	+ 0 25	96.7	96.7	+ 0.7	510.0	510.8	
187	186	187	159 30	339 50	159 40	+ 2 45	96.7	96.5	+ 4.6	511.6	511.5	
188	187	188	177 30	357 00	177 15	+ 0 15	95.2	95.2	+ 0.4	516.2	516.0	
189	188	189	190 50	010 40	190 45	+ 3 10	97.5	97.3	+ 5.4	516.6	516.4	
190	189	190	205 50	024 50	205 30	0 00	94.8	94.8	0.0	521.0	521.7	
191	190	191	185 10	006 00	185 40	+ 2 15	97.8	97.7	+ 3.8	521.0	521.7	
192	191	192	172 40	352 20	172 30	- 1 10	97.7	97.6	- 2.0	525.8	525.4	
193	192	193	183 00	002 50	182 55	+ 2 15	98.0	97.9	+ 3.9	533.8	523.4	
194	193	194	185 40	005 20	185 30	- 0 20	98.0	98.0	- 0.6	527.7	527.2	
195	194	195	187 00	007 00	187 00	+ 3 35	99.1	98.9	+ 6.2	527.1	526.6	
196	195	196	191 40	011 30	191 35	+ 0 10	98.5	98.5	+ 0.3	533.2	532.8	
197	196	197	204 30	024 30	204 30	+ 3 00	99.1	98.9	+ 5.2	532.6	533.0	
198	197	198	229 50	049 20	229 35	+ 0 50	98.2	98.2	+ 1.4	538.8	538.2	
199	198	199	253 30	073 20	253 25	+ 3 10	98.3	98.1	+ 5.4	540.2	539.5	
200	199	200	271 10	090 30	270 50	+ 0 15	98.8	98.8	+ 0.4	545.6	544.9	
201	200	201	245 40	065 20	245 30	+ 3 40	93.6	93.4	+ 6.0	546.0	545.2	
202	201	202	240 00	059 40	239 50	- 0 25	35.3	35.3	- 0.3	552.0	551.2	
202	202	203								551.7	550.9	

Bridged Rivr Came to Yew Clefr Here.

⊕ 112-203		121 15	301 15	- 30 40	34.5	29.7	- 17.6	355.5
203-204	292 00	110 40	291 20	- 18 40	22.4	21.2	- 7.2	337.9
204-205	002 30	183 30	003 00	- 5 45	45.4	45.2	- 4.5	330.7
205-206	093 00		093 00	+ 35 35	33.2	27.0	+ 19.4	326.2
206 ⊕								✓ 345.6
205-207	006 00	187 30	006 45	+ 7 45	92.7	91.8 ⁸	+ 12.5	326.2
207								328.7

NOTES

Hole with barbed wire through it at top of iron gatepost, hinge end, on main road. See p. 17
Blackbird Fissure drillmark, p. 9.

LV track

LV

LV

RV hill crest

4' up

Totty Pot drillmark.

August 25th 1964

Variation 10° 20' W (my old compass)

Benchmark 502.6 (p. 9).

LV 3' up

RV 1' up

LV 4' up

RV 2' up

RV 5' up

RV 2' up

RV 3' up

LV ground (opposite Black Rock Gate).

LV 3' up

RV ground

RV 3' up

RV ground

RV 4' up

RV ground

RV 3' up

RV ground

RV 3' up

LV ground

LV 3' up

Benchmark 550.93

August 26th 1964

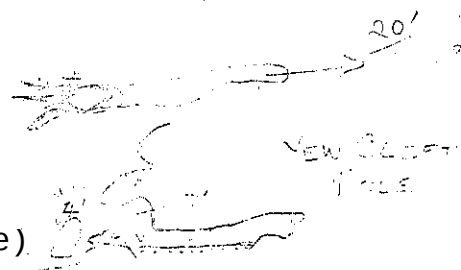
Variation 10° 00' W (my old compass)

Bridged Rift Cave drillmark (p. 5).

Yew Cleft Hole drillmark, in cliff facing south c. 4' above e

(entrance)

Sycamore fork in scree.



Around Spider Hole, Cheddar.

Upgorge to Benchmark 624.63

Upgorge to Totby Pol track

NOTES

August 27 1964. Variation $10^{\circ}10'$ W. (my old compass).

Benchmark 550.93 (p. 11).

LV 3' up

LV ground

RV 3' up

LV 1' up, 4' from verge, off road.

LV 3' up.

RV ground

LV 3' up

In ivy-covered cliff 4' above entrance to low crack.

Entrance of Spider Hole, right of roof centre, 3' above floor.

September 3rd 1964 Variation $10^{\circ}20'$ W. (my old compass).

See above.

LV 3' up.

RV ground

LV 3' up.

LV ground

LV 3' up

RV ground

RV 3' up.

RV ground

RV 3' up

RV ground

LV 3' up.

LV ground

RV 3' up.

LV ground

LV 3' up

RV ground

LV 3' up

RV ground

RV 3' up.

Benchmark 624.63 with bronze pin.

September 10th 1964

Variation $10^{\circ}10'$ W (my old compass).

Benchmark 624.63, as above.

RV 3' up.

RV ground

RV 3' up

RV ground

RV 3' up

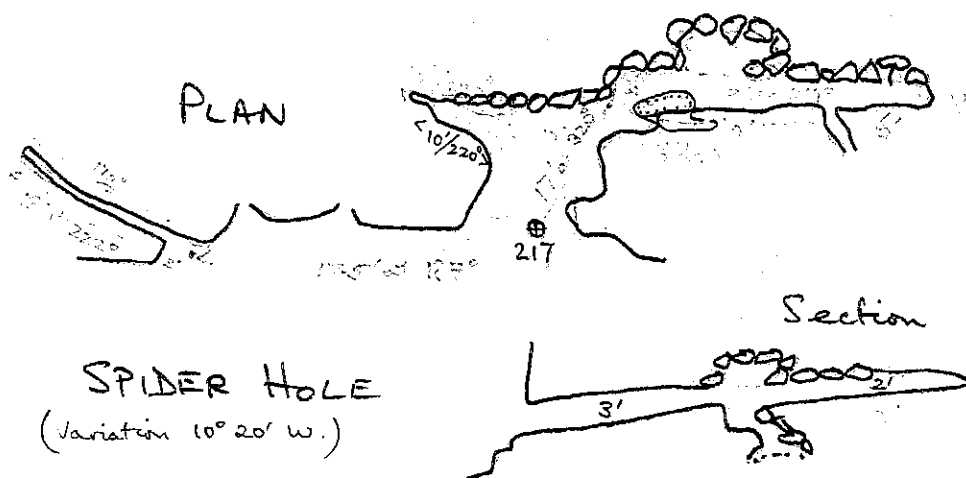
RV ground

RV 3' up

RV ground

RV 3' up

continued on p. 17.



Sta	HR	DF	WL	WR	F.S.	B.S.	Bearing	Cline	Dist.	Horiz
Reynolds' Passage, Long Hole.										
F-218						076° 00'	256 00	+ 18 00	3.9	3.7
218-219			5	0	128 00		128 00	+ 13 20	31.2	30.4
219-220	2	0.5	1.5	1	127 30		127 30	- 2 10	9.5	9.5
220-221	1	0.5	1.5	0.3				+ 90 00	1.7	0.0
221-222			0	1.5	131 00		131 00	- 4 00	7.6	7.6
222-223	3	1.5	1.5	0.5	124 00		124 00	- 19 00	7.4	7.0
223-224	4.5	0.5	3	1		322 30	142 30	- 12 10	24.7	24.1
224-225	1	5	4	3	148 30		148 30	- 13 00	29.2	28.5
225-226	1	0.3	6	5	188 00		188 00	- 14 20	9.1	8.8
226-227	1.5	0.5	5	0.5	158 00		158 00	- 17 00	12.5	12.0
227-228	1.3	0.3	2.6	3.5	189 00		189 00	- 14 10	18.4	17.8
228-end	0.8	0.9	3.5	3						
Total 160' Surveyed, + 55' business = 235'										
229-230	3	4	1	0	348 00		348 00	- 20 40	37.4	35.0
230-end	2	2	2	0	328 00		328 00			20.0
Total Long Hole = 765'										

Total 160' ^{50' 00"} sum + 55' passages = 220'.

Total Loose Hole = 767'

Totty Pot.

Chris Hawkes & Leo Holland.

[illegible]

Vicarage Passage Survey by Oliver Lloyd, Nick Hark & B&B

Line	From	To	Rate	Amount	Balance
L31-L32				023 30	- 50 11.2 7.2
L32-L33R	1.5	0	0.8	068 00	+ 25 10.7 9.7
L33-L34R	0	3		062 00	+ 25 12.0 10.9
L34-L35	0	4		020 30	0 8.3 8.3
L35-L36	2	3	10 3	061 00	- 40 16.0 12.2
L36-L37	0	2	7 3	074 00	+ 35 12.3 10.1
L37-L38	0	4	7 5	150 00	- 25 47.2 42.8
L38	0	1.5			
L37-L39				181 00	- 30 10.5 9.1
L39-L40	0	2	2 4	227 30	- 40 18.7 14.3
L40-L41	0	2	16 4	261 30	- 20 18.0 16.9
L41-L42	0.5	1.5	0 4	320 00	0 10.0 10.0
L42-L43				252 30	- 15 27.0 26.1
L43-L44	2	2	3 2	286 30	- 15 28.5 27.5
L44-L45				301 30	0 14.0 14.0
L45					

Vert. Alt. O.D.

Notes.

August 29th, 1964

Variation 10° 00' (my old compass).

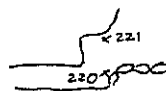
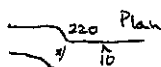
+ 1.2 283.8

F of Survey Book 1 p.7.

+ 7.2 285.0

- 0.4 292.2

Rather tight.



Section

+ 1.7 291.8

- 0.5 293.5

- 2.4 293.0

- 5.2 290.6

- 6.6 285.4

- 2.3 278.8

- 3.7 276.5

- 4.5 272.8

✓ 268.3

228 is sticky-out knob in east side of passage roof, marked with smoke.

Passage blocked by tufa 7' further on.

- 1.3 285.4

- 13.2 284.1

- 6.0 270.9

✓ 264.9

224 is small boss below charred curtain, at junction of passages, in roof.

Tube 20' long trends 009° from



S.

Variation

September 5th 1964

+ 0.3 282.7

- 20.8 270.5

+ 0.5 281.7

✓ 282.2

- 9.4 280.2

- 2.9 279.7

- 0.1 279.9

- 4.2 279.3

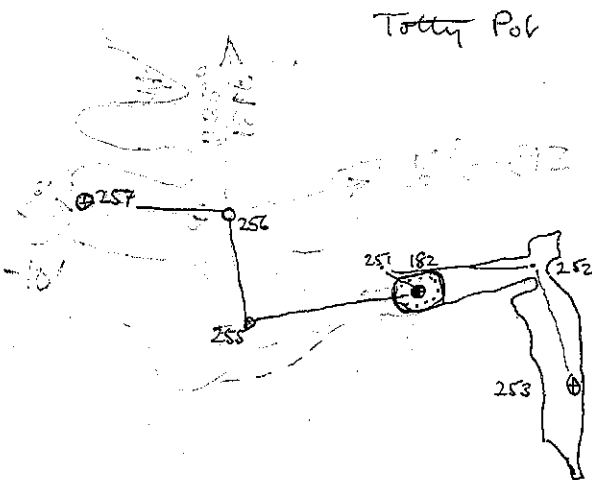
✓ 275.2

Totty Pot drillmark (p. 11). Lip

In squeeze.

End 7' on, same bearing. Drills

Totty Pot drillmark, p. 11.

Drillmark in tufa flow ^{S.} wall 2' below roof

Gannicott. Sept. 19, 1964

Compass bearings true after O.C.L.

Climo to nearest 5°.

- 8.6 270.0

+ 4.5 268.0

+ 5.1 273.0

0.0 272.0

- 10.3 270.0

+ 7.0 268.0

- 19.9 275.0

✓ 254.8

- 5.2 270.0

- 12.0 270.0

- 6.1 271.0

0.0 252.0

- 7.0 452.4

- 7.4 265.0

0.0 261.0

✓ 238.0

Survey Book 1 p. 37.

Bottom of dip under arch.

2/3 way up muddy slope, in roof on right.

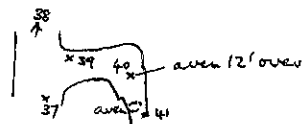
In roof, top of muddy slope.

Lip of 2' drop, but in roof.

6' beyond 8' drop, under which is hole down into hairy passage.

Middle of roof at top of slope. 4' on is passage down to right.

In roof 4' short of low arch to dip.



This leg through squeeze + into hairy passage, which leads up to 8' drop on right.

[illegible]

Around Bone Hole, Cheddar

[illegible]

Near Bone Hole to Nod's Pt.

[illegible]

Notes

Iron post, see p. 11.

continued from p. 13.

RV 3' up

RV ground

RV 3' up

LV ground

LV 3' up

LV ground

LV 3' up

Wooden gatepost to Totty Pol track, see p. 9.

Benchmark 653.51' on outcrop LV 5' from road and 2' higher. NGR ST48555352 (O.S. in lift.)

September 28th 1964. Variation 10° 20' W. (my old compass).

B.M. 502.6, p. 9.

Drillmark at head height on cliff at entrance to Bone Hole ravine, left side (west side).

Hawthorn fork

Crack in top of fence post.

September 29th 1964

Fence post.

Grass stump

Centre of top of fence post.

Centre of top of fence post.

3.5' up.

1' up.

3.5' up.

1' up, approx. at col to Nods basin.

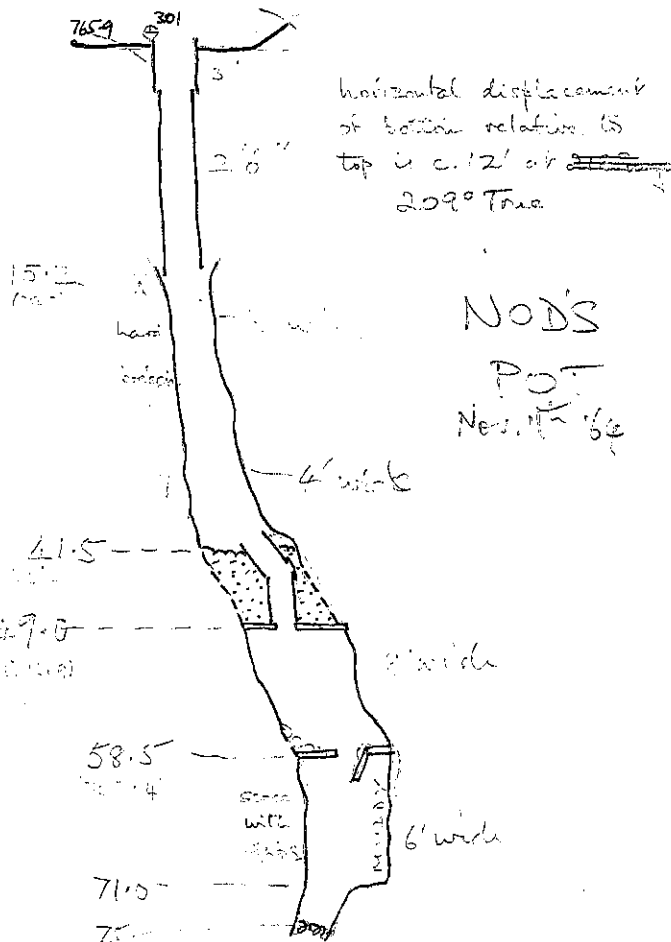
4' up.

1' up in tiny depression.

3.5' up, c. 1' below rim of Nods depression.

301 ⊕ is cold-chisel nick in rim of corrugated cylinder forming top of shaft, on north side, 0.5' west of seam.

D is D of Survey Book 1 p. 23.



STA FS BS Bearing F. Cline Dist. Horiz. Vert. Alt. Alt C

To Pittard's Crawl, Cheddar.

120-302		321 00	141 00	+ 1 20	57.9	57.9	+ 1.3	301.1
302-303	156 50		156 50	+ 36 30	47.0	37.8	+ 28.0	302.7
303-304		029 20	209 20	+ 30 45	43.1	37.1	+ 22.1	300.7
304-305	206 00		206 00	+ 25 50	4.5	4.0	+ 2.0	302.7

305 ⊕ Middle of roof of entrance of main Pittard's Crawl, 2' in from overhang, 4.8' above floor.

To Bake Hole and above Cooper's Hole, Cheddar.

207-306		174 00	354 00	+ 2 45	53.2	53.1	+ 2.6	332.7
306-307	313 50		313 50	- 0 45	26.6	26.6	- 0.3	331.2
307-308		120 00	300 00	+ 18 15	62.5	59.3	+ 19.6	301.0
308-309	271 20		271 20	+ 19 40	21.2	20.0	+ 7.1	300.6

309 ⊕ Bake Hole entrance, 6' above floor on south side.

8-310		026 00	206 00	+ 25 50	46.8	42.2	+ 20.4	182.2
310-311	199 10		199 10	+ 22 45	56.4	52.0	+ 21.8	153.2
311-312		036 10	216 10	+ 31 35	57.9	49.3	+ 30.4	178.2
312-313	119 00		119 00	+ 22 40	26.8	24.7	+ 10.3	200.0
313-314		269 20	089 20	+ 7 10	37.2	36.9	+ 4.6	219.4
314-315	149 00		149 00	- 6 10	3.8	3.8	- 0.4	203.2

315 ⊕ 3' up in cliff over floor of rift entrance

In Gough's Cave, & Check survey in Cooper's Hole

AP-316		117 00	297 00	+ 36 10	18.9	11.2	+ 8.2	181.1
316-317	359 00		359 00	+ 22 00	6.0	5.6	+ 2.2	189.2

317 ⊕

54-318	175 40	iron 353 30	175 40	- 3 00	16.4	16.4	- 0.9	157.1
318-319	120 00		122 10	- 9 00	35.0	34.5	- 5.5	123.6
319-320		338 00	158 00	+ 19 55	35.2	33.1	+ 12.0	130.7
320-321	169 20		169 20	+ 20 20	12.9	12.1	+ 4.5	140.7

321 ⊕

In Bone Hole, Cheddar.

280-322		224 00	044 00	- 5 30	12.3	12.2	- 1.2	604.1
322-323	022 00		022 00	+ 2 20	16.2	16.2	+ 0.7	602.9
323-324		187 40	007 40	- 28 40	14.7	12.9	- 7.1	603.6
324-F	001 00		001 00	- 26 15	39.2	35.1	- 17.3	576.5

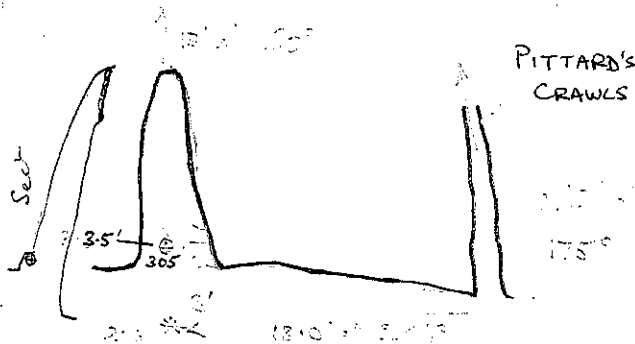
F

From near Cox's Cave to Aquarium Cave

85-325	298 30	119 40	299 05	- 4 00	58.7	58.6	- 4.1	84.3
325-326	250 00	069 00	249 30	- 5 00	82.3	82.0	- 7.2	80.2
326-327	249 40	070 00	249 50	+ 0 10	76.3	76.3	+ 0.2	73.0
327-105	151 50	333 30	152 40	+ 24 30	28.5	18.6	+ 8.5	73.3
105 ⊕								81.8
327-328	242 15	068 00	242 40	- 0 40	80.9	80.9	- 0.9	73.0
328-329	181 00	358 40	179 50	+ 0 30	45.9	45.9	+ 0.4	72.0

October

#120 of p. 5.

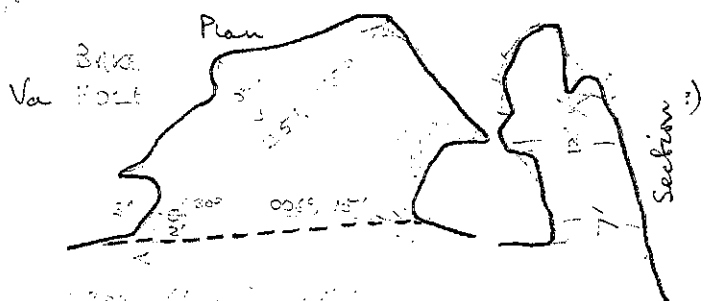


NOTES

10° 20' West (my old compass)

October 8th 1964

See p. 11, in scree of Bake Hole valley



See Survey Book 1 p. 37, drillmark on terrace by Cooper's Hole.

Rift 1' wide slopes down at 45° for c. 12', F.S. 155°.

October 9th 1964

Variation 10° 30' West (my old compass).

AP of Survey Book 1 p. 3.

3.7' above stream level in Gough's Boulder Chamber.

Hole with rawlbolt, above pit. 317 to old floor level: 14'; to roof of main arch: 22.5'; to rock floor: 29'

54 of p. 1.

Cooper's Hole, top of cement wall above door hinges.

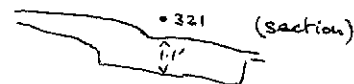
On tip



D.F. 0.7'.

D.F. 5' (solid rock floor).

In east wall of rift 0.5' over middle of entrance to Thymus squeeze.

October 12th 1964

Variation 10° 20' W. (my old compass).

See p. 17. Entrance to Bone Hole ravine.

6' up on right wall.

D.F. 3, W.L. 4, W.R. 3. c. 3' before overhang.

Below huge jammed rock. See Survey book 1 p. 21.

October 21st 1964

Variation 10° 20' W (my old compass)

See p. 3

RV 3' up.

LV ground

LV 3' up

See p. 3. Railings at exit to Cox's Cave.

Road wall in front of Aquarium Cave, bored iron spike (top of) 6' from east end (LV.) 3' up.

STA	F.S.	B.S.	Bearing	F.Climo	Dist.	Horiz.	Vert.	Alt.	Alt.C
329-330	iron 142 00		142 00	+ 1 20	51.3	51.3	+ 1.2	72.8	
330-331		iron 224 50	044 50	+ 2 40	24.7	24.7	+ 1.1	74.0	
331-332	iron 081 20		081 20	+ 4 00	17.8	17.8	+ 1.2	75.1	
332-333		220 10	040 10	- 11 45	31.0	30.4	- 6.3	76.2	
333-334	172 40		172 40	- 0 40	40.6	40.6	- 0.5	76.0	
334-end	148 00		148 00	level	18.0	18.0	0.0	✓ 62.5	
330-335		330 00	150 00	- 3 10	43.7	43.6	- 2.4	74.0	
335-336		295 40	115 40	+ 6 30	24.0	23.9	+ 2.7	71.6	
336-337	163 10		163 10	+ 1 20	16.6	16.4	+ 0.4	74.3	
337-338		340 30	160 30	+ 38 20	14.7	11.5	+ 9.1	74.7	
338-339	167 20		167 20	- 0 30	26.4	26.4	- 0.2	83.8	
339-340		041 00	221 00	+ 12 00	17.1	16.7	+ 3.6	83.6	
340					3' to end in same line			✓ 87.2	
332-341		113 20	293 20	+ 24 00	6.6	2.4	+ 1.1	76.3	
341-342	090 20		090 20	+ 22 00	22.5	20.8	+ 8.4	77.4	
342-343		279 40	099 40	+ 5 00	10.4	10.4	+ 0.9	85.8	
343-344	077 10		077 10	+ 11 50	21.7	21.2	+ 4.4	86.7	
344								✓ 92.1	

To Black Rock Cave			Oct. 25th 1964						
344-345	196 30	016 30	+ 16 20	5.4	5.2	+ 1.5	502.6		
345-346	093 00	273 30	093 15	+ 1 00	82.7	82.7	+ 1.4	502.1	
346-347	125 50	306 00	125 55	+ 3 20	92.7	92.5	+ 5.4	505.5	
347-348	152 20	332 00	152 10	+ 0 50	76.7	76.7	+ 1.1	510.2	
348-349		027 00	207 00	- 11 35	7.8	7.6	- 1.6	510.5	
349-350	224 00		224 00	+ 13 55	33.5	32.5	+ 8.0	510.4	
350								✓ 518.2	

Cowsh Avenues copied from O.C.L. Oct 22 1964

0-1						+ 46.0	100.0
1-2		348 00	level	20.0	20.0	0.0	100.0
2-3		046 00	level	33.5	33.5	0.0	100.0
3-4		049 00	level	16.0	16.0	0.0	100.0
4-5		057 00	level	16.8	16.8	0.0	100.0
5-6		036 00	-20 00 level	14.0	13.2	- 4.8	100.0
6-7						- 25.0	100.0
7-8						- 25.0	100.0
8-9		355 00	level	10.0	10.0	0.0	90.2
9-10		355 00	level	10.0	10.0	0.0	90.2
10-11		252 00	- 35 00	27.0	22.1	- 15.5	90.2
11-12		217 00	- 35 00	15.0	12.3	- 8.6	90.2
12-13		259 00	- 35 00	15.0	12.3	- 8.6	90.2
13-14		179 00	- 45 00	42.0	29.7	- 29.7	90.2
14-15		174 00	- 40 00	23.0	17.6	- 14.8	90.2
15							90.2

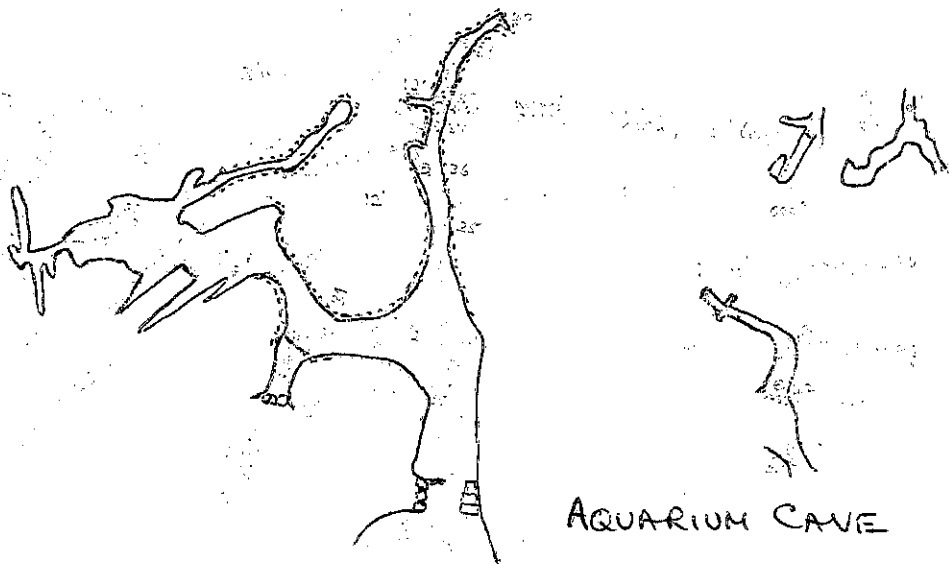
Notes

3' up.

HR 30. DF 5. WL 12. WR 15.

4	3	7	3
6	3	3	6
2	(4) 3	8	11
3	0	1.5	1.5

3	.5	3	1
2	2	3	6
(3) 3	0	2	1
2	2	1	2
4	0	.5	5
2	same bearing 2	2	5



0.2' over single hole in centre of top of brick wall, marked with chalk.

(3) 2 4 2 0.1' over hole marked with chalk in top of brick wall.
 2 2 2 2 Stone/cement wall at 15'.

Over rift down into Coxes; marked with chalk arrow.

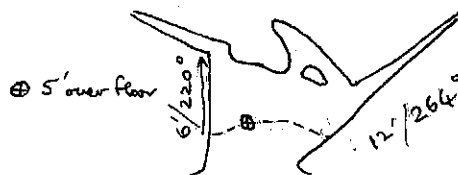
Tim Atkinson et al.

Variation $60^{\circ}20'$ W (my old compass)

B.M. 502.6, see p. 9.

LV

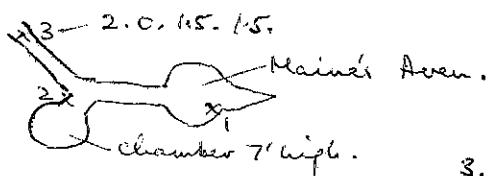
LV



BLACK ROCK RIFT

Drill mark over Black Rock Cave entrance.

CRG 3-4, no clins used

Bottom of Maine's Aven, below ladder pitch. Bearings TRUE

3.2.2.2.

Lip of Bladder Pot.

Ledge in Bladder Pot

Bottom of " "

Bottom of Boss Pot

Bottom of Little Pot

Top of 45' drop

Above hole in floor, c. 20' to streamway.

STA	FS	BS	Bearing	F. Cline	Dist	Horiz	Vert	Acc.	Act ^c
To Flint Jack's Cave. Nov. 3 rd 1964									
328-351		021 00	201 00	+ 1 00	16.0	16.0	+ 0.3		
351-352	221 40		221 40	+ 16 55	90.0	86.1	+ 2.62		
352-353		071 20	251 20	+ 0 05	100.0	100.0	+ 0.1		
353-354	245 00		245 00	+ 13 55	68.7	66.7	+ 16.5		
354-355		093 50	273 50	+ 1 15	53.3	53.3	+ 1.2		
355-356	283 45		283 45	- 12 55	48.8	47.5	- 10.9		
356-357		051 50	231 50	+ 1 50	28.5	28.5	+ 0.9		
357-358	230 40		230 40	- 14 30	25.4	24.6	- 6.4		
358 ⊕									
353-354	126 00		126 00	+ 27 15	65.3	58.2	+ 30.0		
359									

To Pavey's mines. Nov. 6 th 1964									
359-360		254 10	074 10	- 2 15	62.7	62.6	- 2.5		
360-361	071 30		071 30	- 1 35	67.4	67.4	- 1.9		
361-362		260 40	080 40	+ 17 45	82.1	78.3	+ 25.1		
362-363	205 50		205 50	- 14 20	6.4	6.2	- 1.6		
363 ⊕									
362-364	083 00		083 00	+ 24 10	36.2	33.0	+ 14.8		
364-365	123 50		123 50	+ 28 10	21.3	18.8	+ 10.0		
365-366				- 90 00	4.5	0.0	- 4.5		
366									

In Gough's Boulder Chamber. Nov. 17 th 1964									
367-367		338 00	158 00	- 56 00	2.8	1.6	- 2.3		
367-368	315 40		315 40	- 75 50	24.8	6.1	- 24.0		
368-369		222 10	042 10	+ 16 00	2.6	2.5	+ 0.7		
369-370	314 20		314 20	- 8 00	5.0	5.0	- 0.7		
370 ⊕									

Revised Cowsh Aven's survey by Oliver Lloyd.

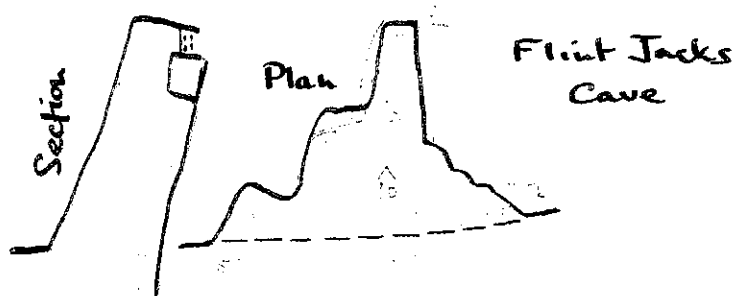
8-8aR	345	level	6.0	6.0	0.0		
8a-8bR	345	-23	13.5	12.4	- 5.3		
8b-9M		-90	21.0	0.0	- 21.0		
9							
8b-9aL	130	-75	28.0	7.3	- 27.0		
9a-10		-90	5.0	0.0	- 5.0		
10							
9a-11L	229	-15	17.0	16.4	- 4.4		
11-12L	239	-15	24.5	23.7	- 6.4		
12-13L	234	-30	18.5	16.0	- 9.3		
13-14L	263	-10	11.0	10.8	- 1.9		
14-15M	187	-55	22.5	18.5	- 11.2		
15-16R	172	-40	39.0	30.0	- 25.0		
16-17L	135	-45	14.5	10.3	- 10.3		
17-18L		-90	29.0	0.0	- 29.0		
18							

New survey points

Notes.

Variation $8^{\circ}10' W$ (my new compass)

See p. 19



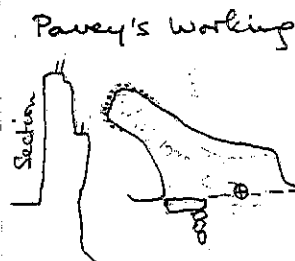
Waist high in wall facing NE.

Variation $8^{\circ}40' W$. (my ~~new~~ new compass)

Fir trunk

In cliff 2.5' over top of entrance, 6' over floor.

Yew fork



NW corner of shaft 24' deep, vertical, 5' square; S side is a vertical fault trending 242, subhoriz slickensides.

Variation $8^{\circ}30' W$ (my new compass).

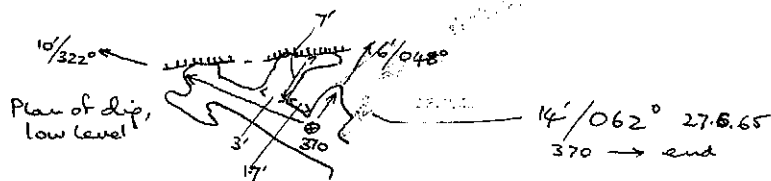
See p. 19

6. 0. 3. 2. West side of second step

3. 2. 5. 3.

2. 6.

Large diameter Φ in rib on north wall above broken curtains



Oct. 31st 1964

Bearings True

See p. 21

Steel boss in centre of splash pool of ~~Bladder~~ Bladder Pol.

Boss 1' from floor. Passage 1.3' wide; 2.5' high

On ledge. Boss Pol 4' wide, 8' long, easy climb.

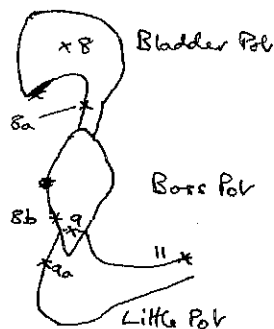
= 9 of p. 21

On lip of Boss Pol floor

5' up wall of Little Pol. 11' high, 8' diameter

= 10 of p. 21

Floor of Little Pol



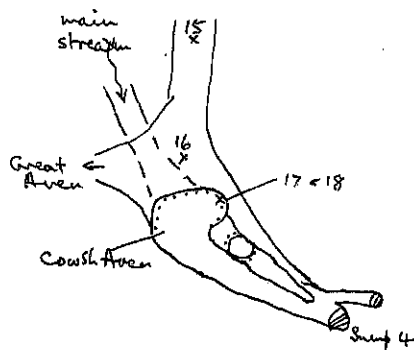
Passage 2' wide, 10' high.

Relay point of ladder

= 15 of p. 21

Head of ladder pitch

Streamway.



Sta, FS, BS, Bearing, F. Clino, Dist, Horiz, Vert, Alt, Alt^cCanyon Cave, Cheddar. Nov. 30th 1964

057-371		299 40	119 40	+4 50	11.2	11.2	+ 0.9	351.3
371-372	093 40		093 40	-17 35	99.1	94.5	-29.9	352.2
372								✓322.3
057-373		065 00	245 00	-70 45	10.7	3.5	-10.1	351.3
373-374	262 00		262 00	-37 00	36.3	29.0	-21.8	341.2
374-375		246 00	066 00	-53 20	20.4	12.5	-16.8	319.4
375-376	113 00		113 00	- 6 20	42.0	41.7	- 4.6	302.6
376-377	107 00		107 00	- one foot	25.0	25.0	- 1.0	298.0
377								✓297.0

St. Pauls, Gough's Cave. Jan. 15th 1965

BA-378				+90 00	6.3	0.0	+ 6.3	150.8
378-379		270 15	090 15	+43 10	32.3	23.5	+ 22.1	157.1
379-380	055 00		055 00	+10 25	33.2	32.6	+ 6.0	179.2
380								✓185.2
379-381	012 00		012 00	+15 50	27.2	26.2	+ 7.4	179.2
381-382		148 00	328 00	+19 40	23.8	22.4	+ 8.0	186.6
382-383	340 30		340 30	+12 50	20.3	19.8	+ 4.5	194.6
0383-384		085 20	265 20	- 8 05	20.7	20.5	- 2.9	199.1
384-385	170 10		170 10	-16 10	34.0	32.6	- 9.5	196.2
385 (looking on in same line)								✓186.7

In Cheddar Gorge. Feb 1st 1965

328-386	258	079	258 30	TRUE 250 00	100			
386-387	258	079	238 30	230 00	100			RV
387-388	264	084	264 00	255 30	100			LV
388-389	278	098	278 00	269 30	100			LV
389-390	263	085	264 00	255 30	100			RV In front of Flint Jacks
390-391	226	045	225 30	217 00	100			RV
391								RV

Superloak Rock Fissure

392		22 50	041 50	+2 35	44.7	44.7	+ 2.2	179.5
392-393	171 40		171 40	+8 20	71.3	70.8	+ 10.4	181.7
393								✓192.1

Swine's Hole. Feb. 3rd 1965

072-394		010 15	190 15	+49 50	32.1	20.7	+ 24.5	647.3
394-395	182 20		182 20	- 9 50	10.0	9.9	- 1.7	671.8
395 →	227		227 00					✓670.1

Notes

Nick Ba

See

8°30' W (my new compass)

2'

See p. 3.

- 4.2.1.

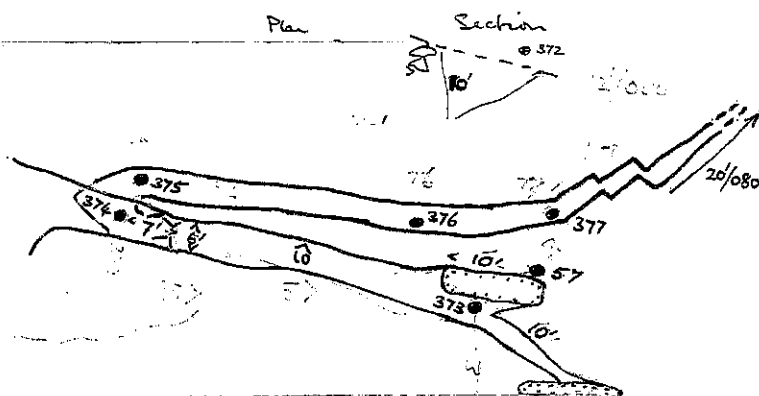
6.0.5. -

15.5.2.5 (Under

6.10.1.1.

Plan

Section



Ron Baker

Variation 8°30'

Survey Book 1 p. 3.

On wall spike 9' over floor, 8' back from gate.

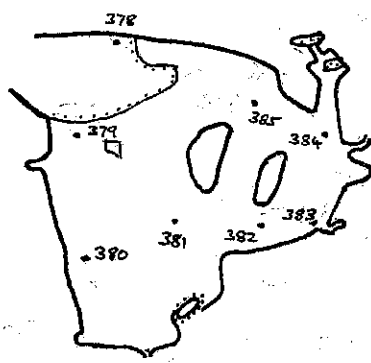
1.3.4.1.

3.0.1.1.

2.3.1.1.

1.5.0.5.1.6. & 1.5' below smoke circle & dot on roof.

1.2.1.1. Passage beyond 384, FS 260, slopes at -6°.

over
10.3.1.15.

Ten

Variation 8°30' W (my new compass)

See p. 19

Road down from Aquarium Cave.

See p. 2.

Overhang 9' back from end; open rift entrance 41' back from end.
Flat ledge 6' up at very end.

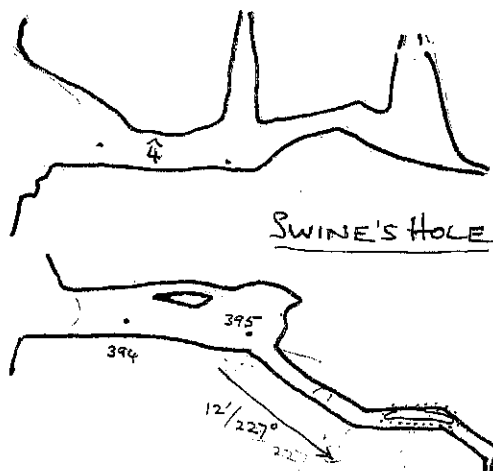
Nick Barrington

Variation 8°30' W (my new compass).

See p. 3.

10.3.4.1. 8' in from overhang

15.1.4.2.



STA , FS , BS , Bearing , F.Cino , Dist , Horiz , Vert , Acc , Alt^c{Pylon Cave}
{Box Cave}

Chelms Combe Quarry.

Feb 7th 1965

396-397		218 00	038 00	+2 30	42.9	42.9	+ 1.9	268.0
397-398	069 50	249 00	069 25	+0 45	78.1	78.1	+ 1.0	269.9
398-399		267 30	087 30	+3 40	97.3	97.1	+ 6.2	270.9
399-400	140 40		140 40	+19 30	81.3	76.8	+ 27.2	277.1
400-401		344 20	164 20	-53 40	22.2	13.2	- 17.9	304.3
401-402	121 40		121 40	-36 00	50.7	41.0	- 29.8	286.4
402-403		057 00	237 00	-20 30	13.1	12.2	- 4.6	256.6
403-404	038 30		038 30	-22 10	42.4	39.3	- 16.0	252.0
404								236.0
402-405		033 00	213 00	+15 20	18.5	17.8	+ 4.9	256.6
405-406	226 15		226 15	-36 15	36.7	29.6	- 21.7	261.5
406								239.8

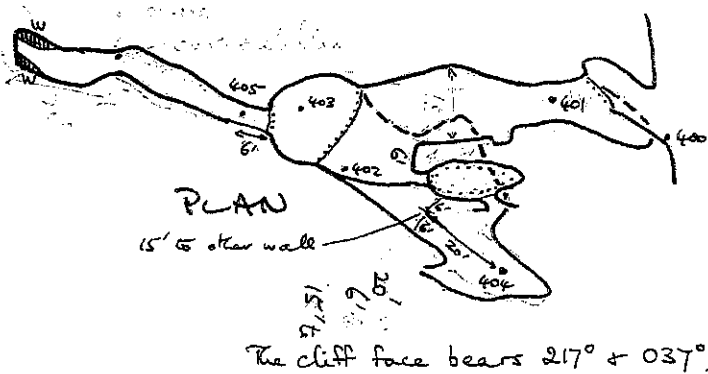
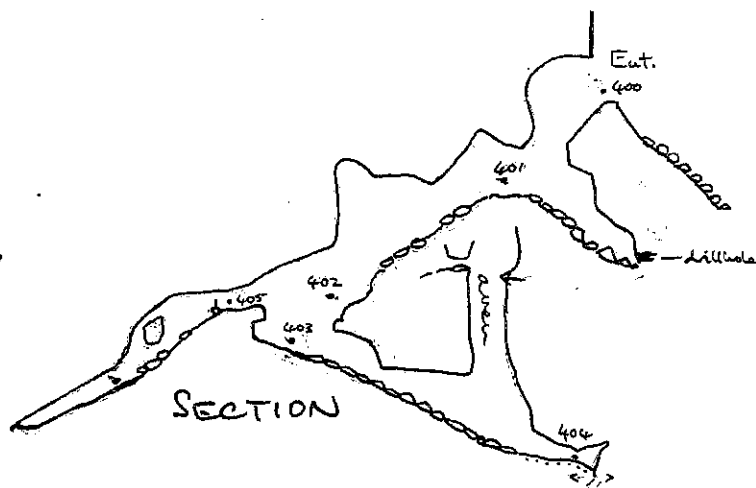
Bake Hole towards Chelms Combe Quarry. Feb 14th 1965

307-407		201 30	021 30	+16 10	76.0	67.2	+ 19.5	341.0
407-408	041 40		041 40	+20 10	76.4	71.8	+ 26.4	360.5
408-409		193 40	013 40	+21 45	96.0	89.2	+ 35.6	386.9
409-410	002 00		002 00	+22 40	80.7	74.3	+ 31.1	422.5
410-411		095 20	275 20	+5 00	97.2	96.8	+ 8.5	453.6
411-412	285 10		285 10	+14 40	91.5	88.5	+ 23.2	462.1
412-413		158 40	338 40	+17 30	90.0	86.0	+ 27.1	485.3
413-414	283 45		283 45	0 00	79.4	79.4	0.0	512.4
414-415		123 10	303 10	+0 40	95.5	95.5	+ 1.1	512.4
415-416	312 50		312 50	+2 30	86.4	86.3	+ 3.8	513.5
416-417		130 00	310 00	+4 10	95.7	95.5	+ 7.0	517.3
417-418	293 50		293 50	+4 00	77.7	77.5	+ 5.4	524.3
418-419		102 20	282 20	+2 00	95.7	95.6	+ 3.3	529.7
419-420	307 20		307 20	-5 10	86.0	85.6	- 7.8	533.0
420-421		124 00	304 00	-2 45	44.4	44.4	- 2.1	525.2
421-422				-90 00	2.9	0.0	- 2.9	523.1
422								520.2

Reservoir Hole extension. March 3rd 1965

Q-423		002 50	182 50	+21 25	5.0	4.6	+ 1.8	367.7
423-424	286 10		286 10	+17 30	18.1	17.2	+ 5.4	369.5
424-425		192 00	012 00	+36 30	19.4	15.6	+ 11.5	374.9
425-426	009 00		009 00	+11 20	33.3	32.6	+ 6.5	386.4
426					7.6			392.9

Notes

Variation $7^\circ 40' W$ (my new compass).

6.4.4.2.

10.10.1.10

12.3.6.8.

2.3.4.2

2.1.5.0.

Candle smoke marks on wall at foot of chocolate-coloured stal flow.

Variation $8^\circ 20' W$ (my new compass)

See p. 19. Hazel Park, 4' up.

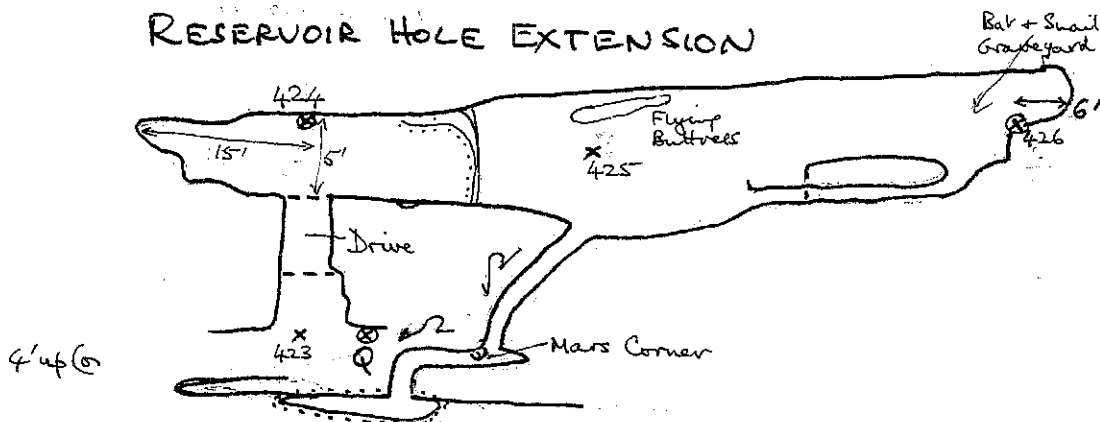
3' up

4' up

4' up

Old Hawthorn. 4' up

RESERVOIR HOLE EXTENSION



On split rock 10 yards east of yew tree.

Nick Barrington

Variation $8^\circ 10' W$ (my new compass)

Q of Survey Bk 1 p 55.

Q is in W. wall

Stanton's Drive, 8.5' long, starts at 4' from 423. Floor of drive 2' lower than 424.

15.5.3.5. 7' climb up boulders at 12'.

12.6.5.8. Little tunnel to Mars Corner starts 8' east of 425

20.5.6.5. (looking on).

STA, F.S., B.S., Bearing, F.Climo, Dist., Horiz, Vert, Alt., Alt^c

Shatter Passage Extension

April 4 1965

291-328		229 15	049 15	- 53 10	4.4	2.6	- 3.5	451.0
328-329	133 40		133 40	- 20 00	9.6	9.0	- 3.3	447.5
329-330	167 00		167 00	0 00	8.7	8.7	0.0	444.2
330-331		301 00	121 00	+ 43 50	12.2	8.8	+ 8.5	444.2
331-332	179 00		179 00	+ 18 35	11.8	11.2	+ 3.8	452.7
332-333		068 00	248 00	+ 17 40	37.4	35.6	+ 11.3	456.5
333-334	267 00		267 00	+ 8 00	14.0	13.8	+ 2.0	467.8
334								469.8

120' new passage

Shatter Caves

April 25th 1965

334-335				+ 90 00	0.5	0.0	+ 0.5	469.8
335-336	266 00		266 00	- 33 30	8.4	7.0	- 4.6	470.3
336-337		128 00	308 00	+ 10 15	9.3	9.1	+ 1.7	465.7
337-338	330 00		330 00	- 26 50	8.4	7.5	- 3.8	467.4
338-339		081 20	261 20	- 27 40	6.7	5.9	- 3.1	463.6
339-340	275 15		275 15	- 5 45	9.8	9.8	- 1.0	460.5
340-341		005 00	185 00	+ 16 20	15.3	14.7	+ 4.3	459.5
341-342	267 00		267 00	- 12 20	27.0	26.4	- 5.8	463.8
342-343		072 00	252 00	- 13 40	33.7	32.8	- 8.0	458.0
343-344	245 50		245 50	- 12 20	7.1	6.9	- 1.5	450.0
344-345		356 00	176 00	+ 67 10	13.5	5.2	+ 12.4	448.5
345-346	141 10		141 10	+ 14 20	14.3	13.8	+ 3.5	460.9
346-347		264 10	084 10	+ 14 45	21.8	21.1	+ 5.5	464.4
347-348	084 30		084 30	- 0 20	17.7	17.7	- 0.1	469.9
348-349		317 00	137 00	+ 31 40	4.5	3.8	+ 2.4	469.8
349-350	092 50		092 50	+ 2 55	30.4	30.3	+ 1.5	472.2
350-351		310 20	130 20	+ 2 40	5.3	5.3	+ 0.2	473.7
351-352	204 45		204 45	- 17 15	17.3	16.5	- 5.1	473.9
352								468.8

430' new passage

Above Chelms Combe Quarry.

April 28th 1965

422-427				+ 90 00	2.7	0.0	+ 2.7	520.2
427-428	331 00	151 30	331 15	- 10 20	96.7	95.0	- 17.3	522.9
428-429	337 30	157 20	337 25	- 2 00	84.8	84.7	- 3.0	505.6
429-430	036 30	215 50	036 10	- 14 00	58.7	56.9	- 14.2	502.6
430								488.4
								489.00

Remains of Chelms Combe Quarry Cave

April 30th 1965

396-431		162 00	342 00	- 34 50	1.5	1.2	- 0.9	268.0
431-432		222 30	042 30	+ 3 40	36.7	36.6	+ 2.3	267.1
432-433	142 00		142 00	+ 1 45	69.5	69.5	+ 2.1	269.4
433-434	179 30	359 20	179 25	+ 3 00	83.1	83.0	+ 4.4	271.5
434-435	150 40		150 40	+ 6 10	79.5	79.0	+ 8.5	275.9
435-436		056 50	236 50	+ 33 00	40.7	34.2	+ 22.2	284.4
436								306.6

Notes

Tim Atkinson, Morland Bros.

Variation $8^{\circ}20'W$ (my new compass)

1.6./, 8

6.2½.3½.7

Rift 8' high, 3½' wide, 10' long on left.

1½.0.2.3.

In duck, vile + web, liable to floods.

1.0.3.1.

Steep up passage over boulders + mud, tight.

2.2.15./.

In Chamber with rock + mud floor

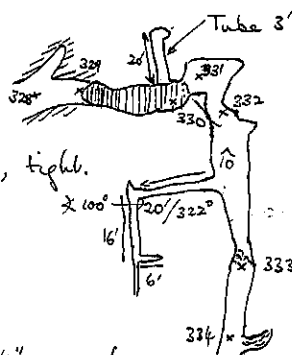
8.2½.3.8.

In second rocky + muddy ch.

3.1½.4.6.

On stal bank down 3' to E

1.1(10 in aven). 9.4. Marked by smth north on roof above; 4' over rock.



Tim Giles, Nick Hart, Pete Collins.

Variation $8^{\circ}20'W$ (my new compass)

0.6, 0.4, 1, 2.

Lowest point of crystal pool crawl
Squeeze extends 6' towards 337

3, 0.5, 1.5, 2.

1, 2, 3, 2.

2, 1.5, 2, 4.

1, 0.3, 3, 1.5.

2, 3, 2, /.

3, 0.5, 3.5, 2

0.5, 2, 2, 1.5.

Drillmark in rock projection facing E, below aven, 3'
above floor, over roof of passage leading W.

4, 4, 3, 1.5. "Altitude 17,000' over Sahara Desert".

1, 0.5, 5, 2.

1(5), 1.5, 3, 2. Stal floor. N S section

4, 0, 4, 3.

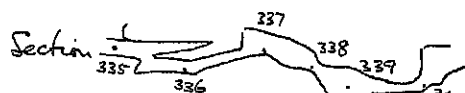
Kink

1.5, 2, 2, 4.

2, 1, 0.5, 3.

1.5, 1, 2 (15 in passage), /.

Drillmark in wall (4' above floor) facing N; 5' west of entrance to squeeze. Chamber 12' high.

aven 12' high, passage
leads 20' ESE.

340 341 342 343 344 345 346 347

S N section.

334 = 335

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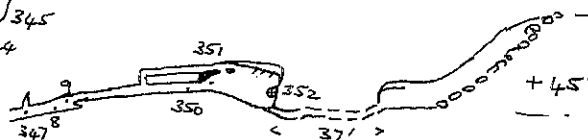
383

384

385

PLAN

210°

Variation $8^{\circ}20'W$ (my new compass)

See p. 27.

T.B.M. altitude from Chelm's Combe Quarry survey.

Chris & Les.

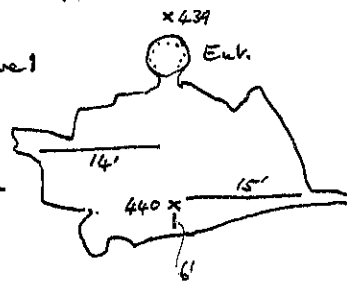
See p. 27.

T.B.M. alt. from Chelm's Combe Q. survey.

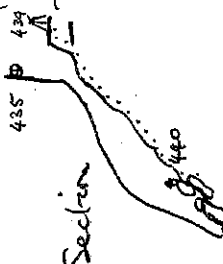
Variation $8^{\circ}20'W$ (my new compass)

Cave 1

Plan



Section

Shallow
x in 2nd Comp face 4' above Cave entrance.

STA	FS	BS	Bearing	F.Climo	Dist	Horiz	Vert	Alt	Alt ^c
436-437	167 00	167 00	167 00	+20 45	10.3	9.6	+ 3.6	306.6	
437-438	249 00	249 00	249 00	-46 20	15.3	10.5	-11.1	310.2	
438								✓299.1	
⊕ 435-439		131 00	311 00	- 9 00	12.3	12.2	- 1.9	284.4	
439-440	118 20	118 20	118 20	-41 20	31.3	23.6	-20.8	282.5	
440								✓261.7	

Shelter Series

May 2nd 1965

⊕ 344-353		179 30	359 30	-28 00	4.1	3.6	- 1.9	448.5	
353-354	242 00	242 00	242 00	-22 30	22.3	20.6	- 8.5	446.6	
354-355	254 00	254 00	254 00	- 2 50	13.3	13.3	- 0.7	438.1	
355-356		128 50	308 50	- 3 00	8.1	8.1	- 0.4	437.4	
356-357	256 45	256 45	256 45	-13 50	25.2	24.5	- 6.0	437.0	
357-358		099 30	279 30	+25 30	14.3	12.9	+ 6.2	431.0	
358-359	196 00	196 00	196 00	- 1 40	8.8	8.8	- 0.3	437.2	
359-360		196 00		- 9 00	5.2	0.0	- 5.2	436.9	
360-361		024 20	204 20	+ 1 00	7.8	7.8	+ 0.1	431.7	
361-362	192 15	192 15	192 15	-25 50	18.4	16.6	- 8.0	431.8	
362-363		100 40	280 40	+11 45	7.5	7.3	+ 1.5	423.8	
363-364	228 50	228 50	228 50	- 9 35	9.5	9.4	- 1.6	425.3	
364-365		052 00	232 00	+ 6 40	15.5	15.4	+ 1.8	423.7	
365-366		029 40	209 40	+22 20	9.3	8.6	+ 3.5	425.5	
366-367	193 50	193 50	193 50	+25 30	10.5	9.5	+ 4.5	429.0	
367-368		018 30	198 30	+18 20	7.0	6.6	+ 2.2	433.5	
368-369	182 20	182 20	182 20	-15 30	5.8	5.6	- 1.6	435.7	
369-370		317 30	137 30	+20 30	5.1	4.8	+ 1.8	434.1	
370-371	164 30	164 30	164 30	- 9 40	7.2	7.1	- 1.2	435.9	
371-372		035 20	215 20	+ 2 20	12.5	12.5	+ 0.5	434.7	
372-373	195 40	195 40	195 40	-28 40	39.6	34.8	-19.0	435.2	
⊕ 373								✓416.2	
372-374	168 20	168 20	168 20	- 6 00	46.6	46.3	- 4.9	435.2	
374-375	080 00	080 00	080 00	+20 feet	20.0	20.0	+20.0	430.3	
375								450.3	

Cancer's Calamity, distances ^{measured} in bodylengths, hand-held compass, vert & s guessed

Passage starts 27' up aven above station 361

Average ^{max.} dimensions 2' x 3'.

scallops go west.

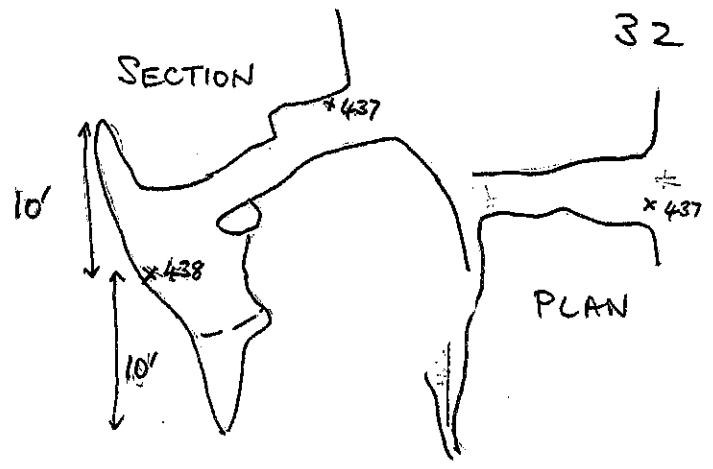
260 00	level	18.0
260 00	level	6.0
271 00	- 3 00	6.0
255 00	- 2 00	6.0
247 00	- 4 00	6.0
273 00	- 3 00	6.0
260 00	- 3 00	6.0
273 00	- 5 00	6.0
292 00	- 7 00	6.0
309 00	- 7 00	6.0
350 00	- 12 00	6.0
313 00	- 5 00	6.0
270 00	- 2 00	18.0
230 00	- 4 00	12.0
250	- 5 00	12.0

120' new passage

Notes

Stal projection in roof of entrance, marked with pencil.

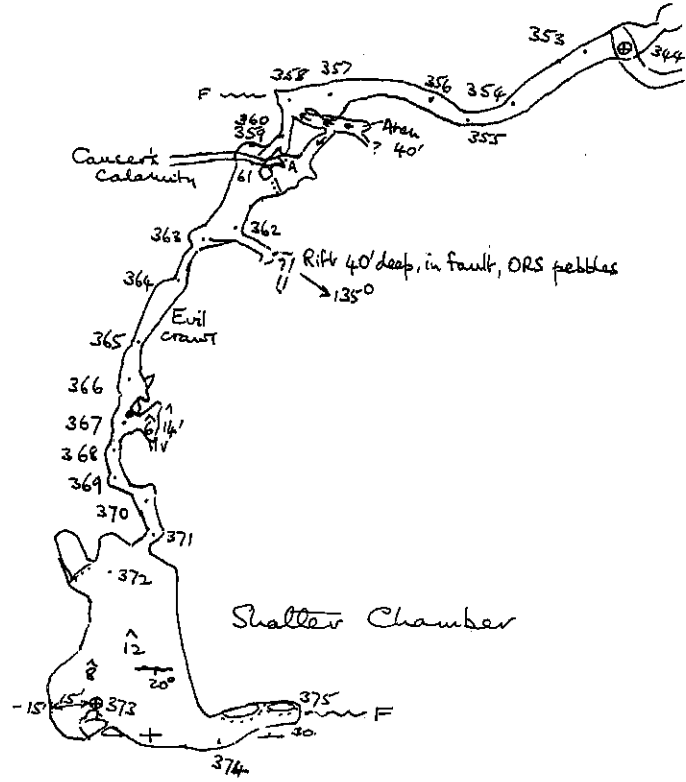
Entrance squeeze at 11'
Cave extends 5' below 440.



Jim Giles, Nick Hart, Pete Cousins, Tony Dingle
See p. 29

Variation 8°20' W (my new compass)

- 2, 1.5, 4, 3.
- 1, 0.5, 2.5, 0.5. Start of muddy wriggle.
- 1, 0.5, 1, 2. Just before end of wriggle
- 1.5, 1, 2, 2.
- 8, 1, 3, 3.
- 3, 1, 1, 3.
- 1.3, 1, 1, 1.
- 1, 0.3, 3, 1.5.
- 5, 3, 2 (Baven), 4.
- 3, 0.5, 4, 1.
- 1, 2, 2.5, 2.5. Evil crawl starts 3' on.
- 1, 0.3, 3, 1. Ugh! Ahh! Ouch! Urr!
- 1, 0.2, 2, 1. Corner in evil crawl.
- 4, 2, 3, 3. Ooh!
- 1, 1.5, 4, 1. end of evil crawl.
- 1.5, 0.2, 2, 1. Boulder passage
- 1.5, 0.2, 2.5, 0.5. " "
- 5, 2.5, 2, 2. Much faulting
- 2, 0.5, 1, 2. Squeeze
- 5 (15), 3, 11, 10. Chamber starts at 4'.



In wall (or sloping roof) 3' above boulder floor, facing N, marked TBM ↑. Lowest point, among boulders, 15' lower.

1, 0, 7, 1 Avere in roof, mud flows & gours, all in gray clay (? fault gouge?)

Kink to right

Looks too tight, inclined scalloped rift cross sect.

Notes

June 27th 1965

Variation 8°20' W (my new compass)

Rawlboth Lake, seep. 19

Top of tip.

Top edge of walling protecting Slab Passage.

Rough bearing, distance in bodylengths.

Visible bottom of slab.

Mike Thompson

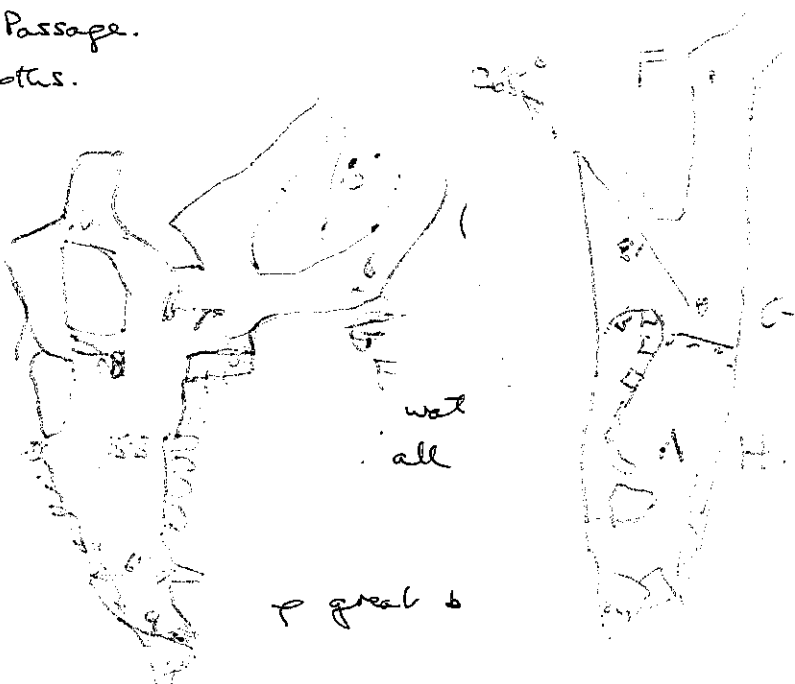
1. is northeast corner of stile step
in depression.3 is NE corner of top of wood
First (mud) ledge in shaft. E
3' above top of slab. 2.3.2.4.

15.01.2.0.5. Bottom of slab.

3.3.2.3 to tip.

Tip of point of sticky-out flake

Lowest point, 4" wide.

September 16th 1965

STA	F.Climo.	Dist	Vert	Alt	
Δ1-25	+ 320	74.4	+ 4.8	837.3+4	Corner of stile step.
25-26	+ 0 55	97.9	+ 1.6	838.2	
26-27	+ 1 45	98.1	+ 3.0	839.8	
27-28	- 1 30	97.2	- 2.5	842.8	
28-29	- 0 40	97.0	- 1.1	840.3	
29-18	- 4 20	78.1	- 5.9	839.2	
18-30	- 4 40	98.7	- 3.0	833.1	Top of gatepost, hinge end.
30-31	- 3 50	98.5	- 3.2	825.3	
31-32	- 2 35	99.2	- 4.5	819.7	
32-33	- 6 10	98.9	- 10.6	814.2	
33-34	- 2 40	98.8	- 4.2	803.6	
34-35	+ 0 40	91.3	+ 3.1	799.0	
35-36	- 0 45	98.2	- 1.3	800.1	Wall
36-10	0 00	99.1	2.0	793.8	
BM 10		798.8			BM 798.77.

N.B. Vertical Misclosure:

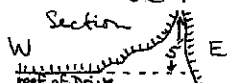
0.8' in 2,650' = 0.03%. 28 legs

Ten

Variation 8°20' W (my new compass)

Comp. 27.

1, 2.5, 1, 1.



Lip of Hdy at 3.8'

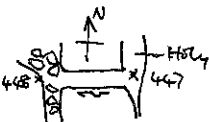
14, 1, 1, 1.

E wall of Hdy, 1' below level of roof of entrance to Hdy.

1, 0, 1, 0.5.

Pool at bottom of Hdy.

Far wall of cross rift:



Not

June 27th 1965

Railbolt hole, see p. 19

Top of Tip.

Top edge of walling protecting Slot

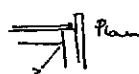
Rough bearing, distance in body lens

Visible bottom of slot.

Mike Thompson

Presumed variation 8°20' W (my new compass)

1. is northeast corner of stile step:  in wall.
In depression.

3 is NE corner of top of wooden shaft 

First (mud) ledge in shaft. Evidence of recent heavy waterflow!

3' above top of slot. 2.3.2.4. solid floor, boulders all round.

1.5.0.1.2.0.5. Bottom of slot.

3.3.2.3 to tip.

Tip of point of sticky-out flake under + supporting great boulder.

Lowest point, 4" wide.

September 16th 1965

STA	F Clin.	Dist	Vert	Alt	
Δ1-25	+ 320	74.4	+ 4.8	834.3+4	Corner of stile step.
25-26	+ 0 55	97.9	+ 1.6	838.2	
26-27	+ 1 45	98.1	+ 3.0	839.8	
27-28	- 1 30	97.2	- 2.5	842.8	
28-29	- 0 40	97.0	- 1.1	840.3	
29-18	- 4 20	78.1	- 5.9	839.2	
18-30	- 4 40	98.7	- 3.0	833.1	Top of gatepost, hinge end.
30-31	- 3 50	98.5	- 3.2	825.3	
31-32	- 2 35	99.2	- 4.5	818.7	N.B. Vertical Misclosure: 0.8' in 2,650' = 0.03%. 28 legs
32-33	- 6 10	98.9	- 10.6	814.2	
33-34	- 2 40	98.8	- 4.6	803.6	
34-35	+ 0 40	91.3	+ 1.1	799.0	
35-36	- 0 45	98.2	- 1.3	800.1	Wall
36-10	0 00	99.1	2.0	798.8	
Σ 10		Total - 35'		798.8	BM 798.77.

Ten

Variation 8°20' W (my new compass)

Q. no. 27.

1, 2.5, 1, 1.

14, 1, 1, 1.

1, 0, 1, 0.5.

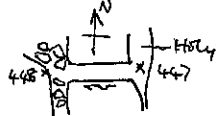
Section
W
Top of Drive
E

Lip of Holey at 3.8'

E wall of F Holey, 1' below level of roof of entrance to Holey.

Post at bottom of Holey.

Far wall of cross rib:



STA , FS , BS , BEARING , FCLINO , DIST , HORIZ , VERT , ACT , ALTC

Co-ords Bk 3 p.1.		Read's Cavern - Browne - Stewart Passage						Feb 26 th 1966	
APSP-1		136 00	316 00	- 18 00	4.3	4.1	- 1.3	486.8	
1-2	137 00		137 00	- 44 00	10.2	7.3	- 7.1	485.5	
2-3				- 90 00	5.2		- 5.2	478.4	
3-4		013 00	193 00	- 16 00	2.7	2.6	- 0.7	473.2	
4-5	117 00		117 00	- 32 00	7.0	5.9	- 3.7	472.5	
5-6				- 90 00	13.7		- 13.7	468.8	
6-7		175 00	355 00	- 10 00	5.0	4.9	- 0.9	455.1	
7-8	305 00		305 00	+ 3 30	8.7	8.7	+ 0.5	454.2	
8-9		183 00	003 00	- 36 00	6.8	5.5	- 4.0	454.7	
9-10				- 90 00	9.4		- 9.4	450.6	
10-11		026 00	206 00	- 33 00	3.9	3.3	- 2.1	441.2	
11-12	314 00		314 00	- 1 30	10.5	10.5	- 0.3	439.1	
12-13		181 00	001 00	- 24 30	8.4	7.6	- 3.5	438.8	
13-14	605 00		105 00	- 41 00	7.9	6.0	- 5.2	435.3	
14-15				- 90 00	1.7		- 1.7	430.1	
15-16		204 00	024 00	- 37 30	9.3	7.4	- 5.7	428.4	
16-17	079 00		079 00	- 11 30	9.7	9.5	- 1.9	422.7	
17-18		259 00	079 00	- 39 30	4.6	3.5	- 2.9	420.8	
18-19	134 00		134 00	- 26 30	10.1	9.0	- 4.5	417.9	
19-20		276 00	096 00	- 3 00	3.5	3.5	- 0.2	413.4	
20-21	251 00		251 00	- 24 30	9.7	8.8	- 4.1	413.2	
21-22		310 00	130 00	+ 5 00	1.5	1.5	+ 0.1	409.1	
22-23	351 00		351 00	- 40 30	8.0	6.1	- 5.2	409.2	
23-24	327 00		327 00	^{see} - 44 30	11.5	8.2	- 8.1	404.0	
24-25	018 00		018 00	- 47 00	9.3	6.3	- 6.8	394.9	
25-26	113 00		113 00	- 3 30	17.4	17.4	- 1.1	388.1	
26-27				- 90 00	8.2		- 8.2	387.0	
27							- 107.0	378.8	

		Tankard Hole, surface tie-up.				March 5 th 1966		
1-2				+ 90 00	12.0	0.0	+ 12.0	
2-3		306 30	126 30	+ 15 15	78.0	75.2	+ 20.5	
3-4	056 00		056 00	+ 0 15	107.0	107.0	+ 0.5	
4								

Co-ords Bk 3 p.2		Read's Cavern: Entrance + Main Chamber.						March 13 th 1966	
28-29		035 50	215 50	- 2 40	12.3	12.3	- 0.6	529.9	
29-30	035 40		035 40	- 44 20	21.8	15.6	- 15.2	529.3	
30-31		130 40	310 40	- 16 20	16.1	15.4	- 4.5	514.1	
31-32	095 00		095 00	- 43 20	24.1	17.5	- 16.6	509.6	
32-33		197 20	017 20	- 47 40	22.5	15.2	- 16.6	493.0	
33-34	032 30		032 30	- 18 30	21.8	20.6	- 6.9	476.4	
34 A								469.5	
33-35	298 00		298 00	+ 4 10	39.4	39.3	+ 2.9	476.4	

NOTES

Howard + Jim. No tripod, Grade 5B-C Bearings magnetic, Var 8.25° W (my new compass)
PSP is centre of 8 in 18 painted on wall in Water Ch. 18-ASP

Then squeeze into ruckle

"

"

Down long chimney among boulders

Inclined rft between boulders (Howard's Round Trip)

Ruckle

"

"

"

"

Start of Chamber in ruckle. Jim's squeeze.

" " "

" " "

Jim's way out starts above here.

"

"

"

Through

In first squeeze widened by Howard.

In small chamber between squeezes

Beyond second squeeze widened by Howard

} all in ruckle

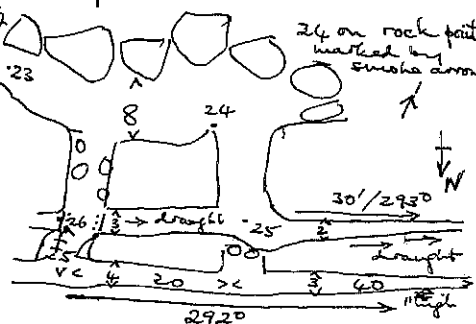
~~Readings from 1' below 23 vertically~~ ruckle

~~Readings from 1' below 23 vertically~~

Boulder Ch, solid rock on right.

Dip $c. 50^{\circ}$ N.

26 is smoked clipped rock point on S wall of upper tube.



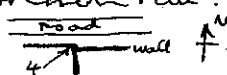
Grade 6. Var. $8^{\circ}15'$ W (my new comp.)

Top of E side of entrance shaft

Elder tree fork

3' above ground; 15' outside depression rim.

NE Field corner at field level.



① is 150.3' at 256° from ④, and 33' lower.
NGR of ④ is 55684995

Jim, Mike York, Geoff Moore, John Phillips. Grade 6

Variation $8^{\circ}15'$ W (my new compass)

T-shaped smoke mark on spur on cliff above entrance, 3.0' higher than Crickway's BM

Entrance 8' back from 30.

29

3, 1, 4, 1.

6, 3, 6, 4.

15' east of Office

43-84 painted on N. wall



STA	FS	BS	Rearing	F. Cline	Dir	Horiz	Vert	Alt	Alt ^c
35-36		108/15	288 15	+ 10 50	46.8	44.0	+ 8.4	479.3	
36-37	035 20		035 20	- 22 40	14.1	13.0	- 5.4	487.7	
37 Δ								✓ 482.3	
36-38	212 30		212 30	+ 16 20	13.9	13.3	+ 3.9	487.7	
38								491.6	
36-39	265 10		265 10	+ 7 20	29.8	29.6	+ 3.8	487.7	
39-40		072 00	252 00	- 21 10	14.8	13.8	- 5.3	491.5	
40-PSP	163 10		163 10	+ 4 00	8.9	8.9	+ 0.6	486.2	
PSP Δ								486.8	
39 40-41		172 30	352 30	- 22 25	31.1	28.7	- 11.9	491.5	
41-42	272 40		272 40	- 23 20	21.1	19.4	- 8.4	479.6	
42-43		197 30	017 30	- 29 15	7.1	6.2	- 3.5	471.2	
43-44	303 20		303 20	+ 10 20	5.7	5.6	+ 1.0	467.7	
44 Δ								468.7	

Hyaena Den.

March 17th 1966 + March 18th Jan.

1-2	074 50	074 50	074 50	- 4 40	9.9	9.9	- 0.8	206.5	
2 Δ	074 50							205.7	
1-3	034 00		034 00		12.5	12.5			
1-4	021 30		021 30		30.0	30.0			
1-5	004 00		004 00		47.0	47.0			
1-6	287 30		287 30		19.5	19.5			
1-7	269 00		269 00		11.5	11.5			
1-8	227 00		227 00	+ 7 00	13.0	12.9	+ 1.6	206.5	
8 Δ								208.1	
1-9	164 00		164 00		18.7	18.7			
1-10	104 50		104 50	- 1 20	28.8	28.8	- 0.7	206.5	
10 Δ								205.8	
2-11		091 20	271 20	+ 11 20	4.8	4.7	+ 0.9	205.7	
11-12	349 50		349 50	- 2 20	32.7	32.7	- 1.3	206.6	
12-13				+ 90 00	5.9	0.0	+ 5.9	205.3	
13 Δ								✓ 211.2	
11-14	295 30		295 30	- 7 30	34.7	34.4	- 4.5	206.6	
14								202.1	
10-15	025 00	205 00	025 00	Level	11.3	11.3	0.0	205.8	
15-16	172 00		172 00		19.0	19.0	- 1.0	205.8	
16				1' below 10				204.8	
2-17		014 10	194 10	+ 12 25	5.8	5.7	+ 1.2	205.7	
17-18	216 20		216 20	+ 38 20	34.7	27.3	+ 21.5	206.9	
18-19		004 50	184 50	- 2 45	18.4	18.4	- 0.9	228.4	
19-20	133 00		133 00	+ 4 40	4.7	4.7	+ 0.4	227.5	
20 Δ								✓ 227.9	

Reade Cavern

March 19th 1966

Howard, Mike T, Geoff.

27 45-46		256 00	076 00	+ 3 30	5.3	5.3	+ 0.3	378.8	
45-46	164 00		164 00	- 19 00	15.1	14.3	- 4.9	379.1	
46-47		312 00	132 00	+ 41 30	6.5	4.9	+ 4.3	374.2	
47-48	087 00		087 00	+ 17 00	4.0	3.8	+ 1.2	378.5	
48-49		295 00	115 00	+ 6 30	18.0	17.9	+ 2.0	379.7	

NOTES

10, 14 (max), 5, 20.

27^{Δ37} painted on N wall.

Below high rift above S. wall.

See p. 35.

5, 3, -, 10.

4, 4, 7, 9.

4, 3, 15, 3.

13⁴⁴ painted on N wall.

Grade 6

Co-ords Bk 3 p.3

Variation 8°10' W (my new compass)

1'4" above ground. (cold chisel cross)

3 on ground

4 in roof/floor angle

Canal 4' further on.

on ground.

Δ on pebble in roof, 4' above

chisel cross on wall, 1' up.

chisel cross in roof facing c

Overhang at 22'.

Canal edge (W), 1'2" above water, which is 4'5" deep. Canal 9' wide.

On floor.

Elm fork

chisel cross in cliff over Rhinoceros Hole, 3'5" up.

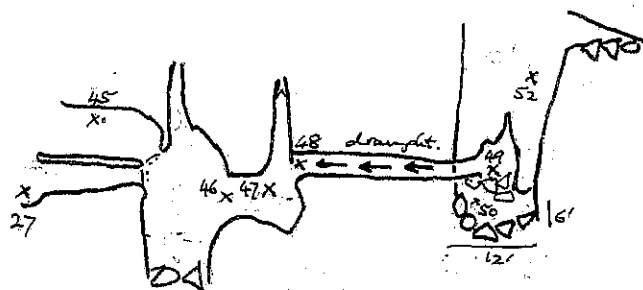
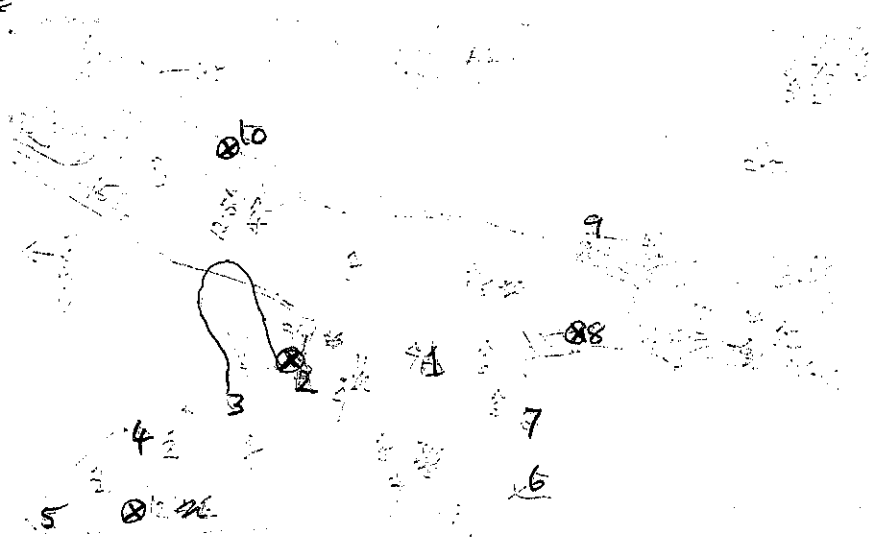
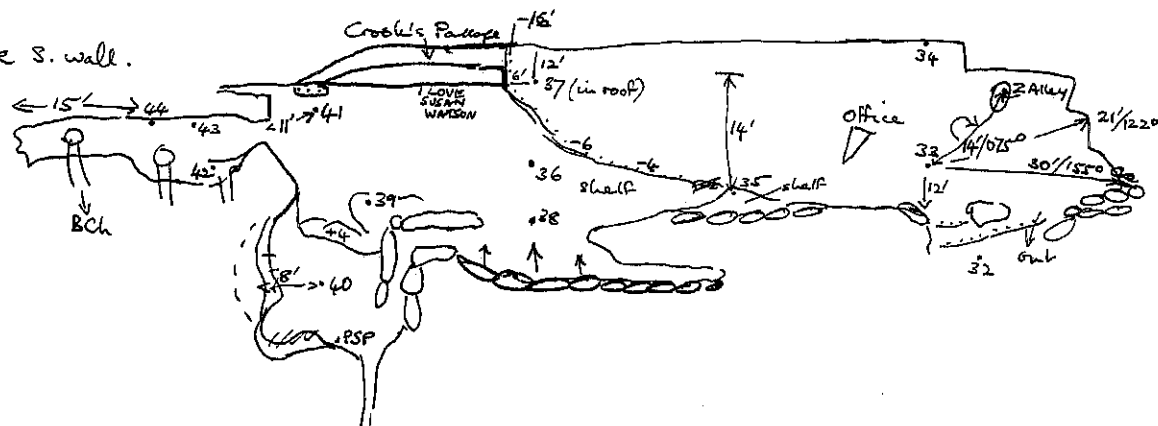
Grade 5 Co-ords Bk 3 p.3.
Bonne-Stewart Passage.

2, 2, 2, 2½. 7' drop at 7'5'.

2½, 2½, 2½. On Chattering Slope. Way over at 10' up in

15, 3, 8, 4. Small chamber.

8, 2, 2½, ½. Start of tube.



NOTES

10, 14 (max), 5, 20.

27^{Δ37} painted on N wall. 

Below high rift above S. wall.

See p. 35.

5, 3, -, 10.

4, 4, 7, 9.

4, 3, 15, 3.

13⁴⁴ painted on N wall.

Grade 6 Co.

1.4' above ground. (chisel cross)

3 on ground

4 in roof/floor angle 

Canal 4' further on.

on ground.

Δ on pebble in roof, 4' above floor. (chisel cross)

chisel cross on wall, 1' up.

chisel cross in roof facing canal.

Overhang at 22'.

Canal edge (W), 1.2' above water, which is 4.5' deep. Canal 9'

On floor.

Elm fork

chisel cross in cliff over Rhinoceros Hole, 3.5' up.

Grade 5 Co-ord Bk 3 p. 3.
Bonne-Stewart Passage.

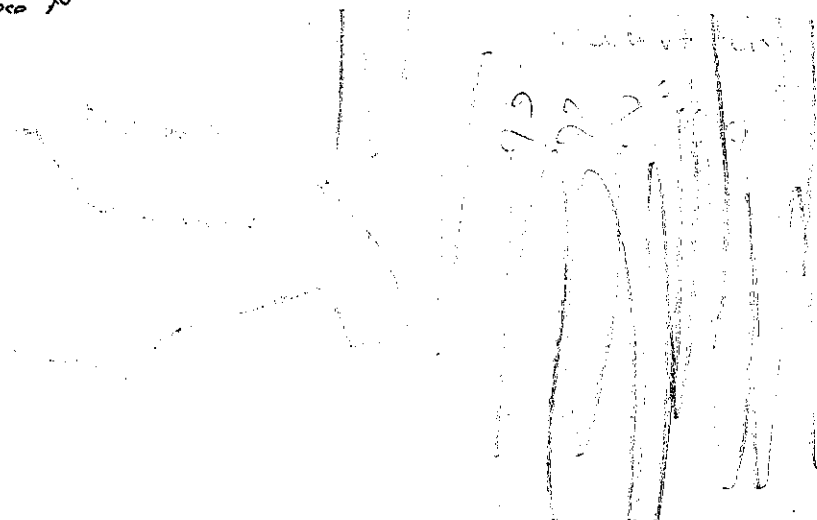
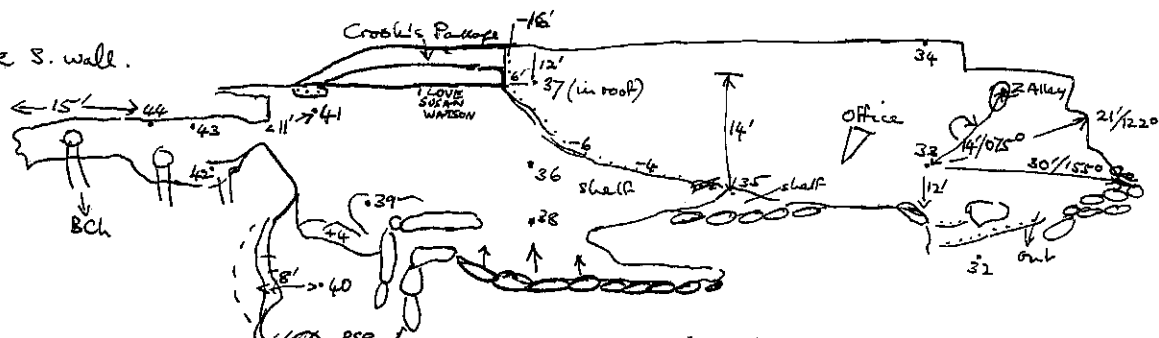
Var. 8°20' W (my new compass)

2, 2, 2, 2. 7' drop at 7.5'.

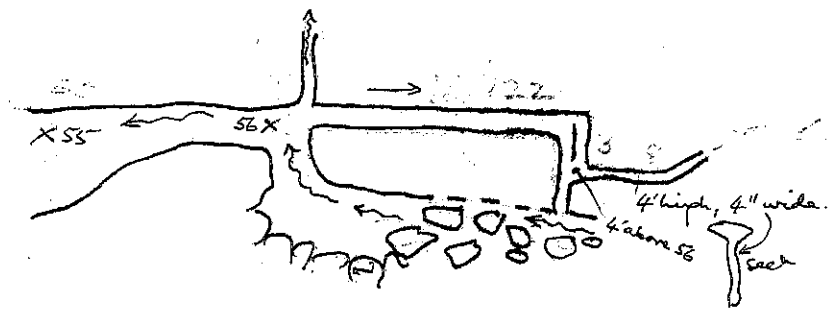
2, 1/2, 2, 1/2. On Chattering Slope. Way over at 10' up in roof.

15, 3, 8, 4. Small chamber.

8, 2, 2, 1/2. Start of tube.



8, 3 (boulder), 4, 3.



6(16), 3(10), 15, 7.

8, 2 (boulder), 4 (boulder), 10.

10, 4, 3, 6. Below flood waterfall.

On boulder in stream bed.

3, 3, 2, 4 (looking E). (Niche) in top of thin upright rock

3, 2, 3, 3.

1, 3, 3, oxbow + foot of Thompson's Loop.

2, 1, 1, 4.

4' above floor of choke, on W. wall.

Grade 6

Variation $8^{\circ}10' W$ (my new compass)

3' up.

screw in doorpost, 4' up.

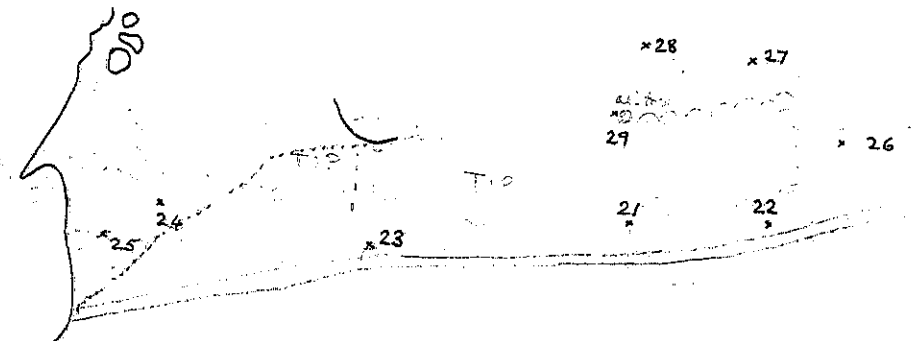
6, 3, 1, 1.

Head of Rawlbolt, 5' 8" up.

3' above centre of "jeep pit" (6' diameter) ground

3' up

Nail in ash trunk, 4' above ground.



Cross + nail in ash trunk, S. side, 5' up.

Grade 6.

Variation $7^{\circ}40' W$ (my new compass)

3' up.

Top of iron post 5' up.

3' up

Cross + nail in young elm trunk in old wall

39

Wall corner, on ground.

on ground, 2' short of wall bend.

Cross + nail in maple trunk just over wall, ~ up.

on ground.

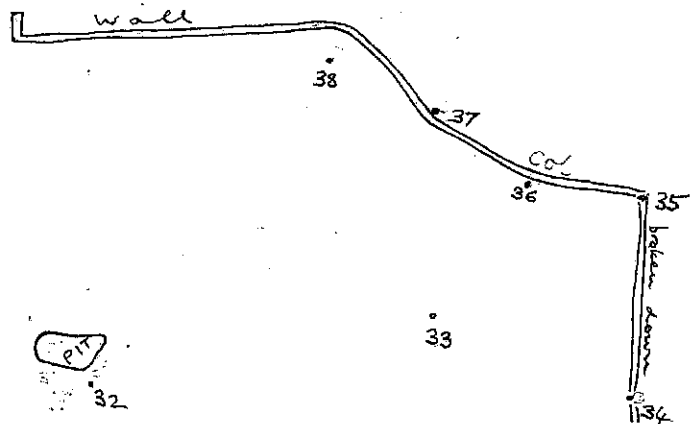
Grade 6

Variation $7^{\circ}40' W$ (my new compass)

cross on roof, facing E, 6' up.

4(10), 3, 8, 1.

Tiny ledge 1/2' under smoke mark on roof.



Notes

8, 3 (boulder), 4, 3.

6 (16), 3 (10), 15, 7.

8, 2 (boulder), 4 (boulder), 10.

10, 4, 3, 6. Below flood waterfall.

On boulder in stream bed.

3, 3, 2, 4 (looking E). (Niche) in top of thin upright rock in stream bed at corner.

3, 2, 3, 3.

1, 3, 3, oxbow + foot of Thompson's Loop.

2, 1, 1, 4.

4' above floor of choke, on W. wall.

Grade 6

Variation $8^{\circ}10'W$ (my new compass)

3' up.

screw in doorpost, 4' up.

6, 3, 1, 1.

Head of Rawlbolt, 5' 8" up.

3' above centre of "jeep pit" (6' diameter) ground

3' up

Nail in ash trunk, 4' above ground.

Cross + nail in ash trunk, S. side, 5' up

Grade 6.

3' up.

Top of iron post 5' up.

3' up

Cross + nail in young elm trunk in old wall, 3' up.

Wall corner, on ground.

on ground, 2' short of wall bend.

Cross + nail in maple trunk just over wall, 6' up.

on ground.

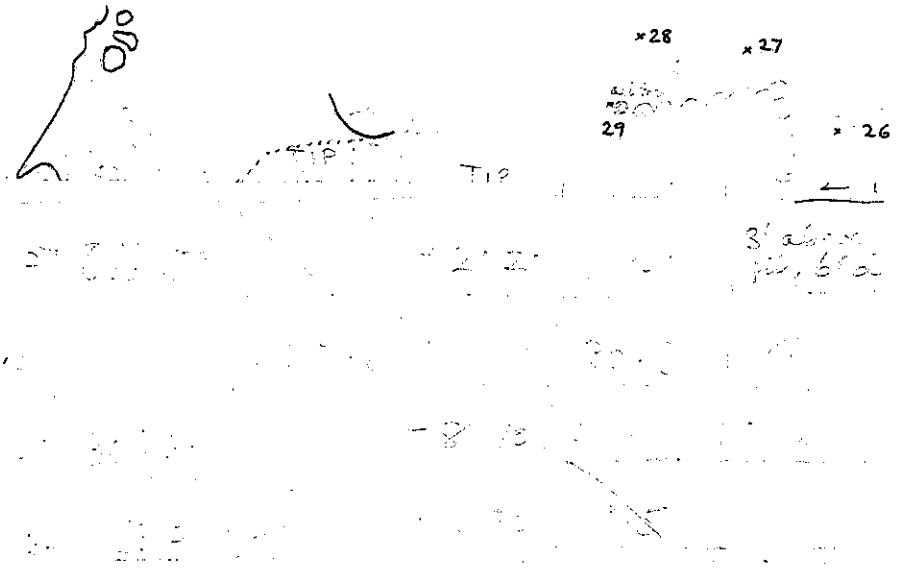
Grade 6

Variation $7^{\circ}40'W$ (my new compass)

cross on roof, facing E, 6' up.

4 (10), 3, 8, 1.

Tiny ledge $\frac{1}{2}'$ under smoke mark on roof.



Sta.	F.S.	B.S.	Bearing	F. Cline	Dist.	Horiz	Vert	Alt	Alt ^c
40-43	103 20		103 20	- 2 35	24.7	24.7	- 1.1	251.0	
43								249.9	
40-44	018 30		018 30	+ 8 40	14.8	14.8	+ 2.2	251.0	
44								253.2	
43-45		228 10	048 10	+ 13 30	16.3	15.8	+ 3.8	249.9	
45-32	054 20		054 20	+ 60 50	21.5	10.5	+ 18.8	253.7	
32								272.5	

Co-ords Bk 3 p.6.

Badger Hole

March 25th 1966

43-46		212 15	032 15	+ 7 20	16.4	16.3	+ 2.1	249.9	
46-47	336 30		336 30	+ 16 40	15.8	15.1	+ 4.5	252.0	
47 Δ								256.5	
46-48	256 00		256 00	- 21 00	17.5	16.3	- 6.3	252.0	
48								245.7	
46-49	140 45		140 45	+ 2 10	21.6	21.6	+ 0.8	252.0	
49-50		225 20	045 20	+ 10 30	19.2	18.9	+ 3.5	252.8	
50								✓256.3	
47-51		267 30	087 30	- 18 20	4.2	4.0	- 1.3	256.5	
51-52	046 00		046 00	+ 5 50	10.4	10.4	+ 1.1	255.2	
52-53		197 00	017 00	+ 7 25	10.6	10.5	+ 1.4	256.3	
53- end of trench	005 00		005 00		7.0	7.0		✓257.7	

Co-ords Bk 3 p.6

Hyasna Den to Wookley Hole

March 30th 1966

Angela, Susan.

13-54		127 20	307 20	- 15 45	21.7	20.9	- 5.9	211.2	
54-55	012 10		012 10	+ 1 20	87.6	87.6	+ 2.0	205.3	
55-56		168 25	348 25	- 5 45	23.2	23.1	- 2.3	207.3	
56-57	340 40		340 40	- 1 40	58.7	58.7	- 1.7	205.0	
57-59		160 20	340 20	+ 2 20	28.4	28.4	+ 1.2	203.3	203.4
59-60	352 55		352 55	- 2 15	26.9	26.9	- 1.1	204.5	204.6
60 Δ								✓203.4	203.5
56-58	100 45		100 45	+ 32 10	45.8	38.8	+ 24.4	205.0	
58 Δ								229.4	

Levelling to Wookley Hole canal

March 31 1966

BM-61		- 7 30	15.6	- 2.0	179.8	
61-62		0 00	117.130		177.8	
62-63		0 00	—		177.8	
63-64		+ 1 30	70.5	+ 1.8	177.8	
64-65		+ 2 10	90.5	+ 3.4	179.6	
65-66		+ 23 20	46.8	+ 18.5	183.0	

Today water level is 1.3' below 14 (p.37) and 2.7' below 60 (above) 201.5 ✓

Co-ords Bk 3 pp 6-7

Reads Cavern - Boulder Ch + Tim's Loop.

6th April 1966

44-61			297 40	- 90 00	2.9	0.0	- 2.9	468.7
61-62		117 40	109 10	- 10 30	11.7	11.5	- 2.1	465.8
62-63			178 00	- 90 00	2.6	0.0	- 2.6	463.7
63-64		358 00	349 30	- 14 30	4.3	4.2	- 1.1	461.1
64-65	128 00		128 00	- 38 00	11.2	8.8	- 6.9	460.0
65-66		074 00	254 00 065 130	- 10 00	14.8	14.6	- 2.6	453.1

Notes.

2.5' ^{vertically} below chisel cross on wall (+252.4)

on ground 2' short of wall.

4, 1 1/2, 1, 1/2.

up shaft.

p. 39

Grade 6

6, 2, 1, 3. Foot of slope up to shaft.

chisel cross at angle of roof + wall

on ground, in sand, end of dug passage.

0.9' vertically below big smoke cross on roof. (+253.7)

3, 3, 3, 3 (looking on). All in hard stones + earth, no solid.

1, 4, 1, 1.

3, 3, 2, 6.

6, 2, 4, 1. Only lower left wall is solid, all else is hard stony earth with roots.

3, 3, 2, 7. 2.9' vertically below big smoke cross on roof. (+260.6)

Grade 6.

Variation 7° 50' W (my new compass)

see p. 37.

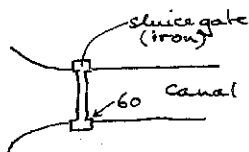
3' from canal. 50' from 55 canal is 6' away.

2' from canal

3' from canal

5' from canal

corner of iron plate over water



Marble pebble at point of large rock nose at ent. of

BM 179.78 on Woolley Hole Church.

On wall

Bottom of top iron hinge on stone gatepost to Paper Mill.

Just outside arch

Edge of canal near outlet, 0.7' above water level. Water level 200.8' A.D.

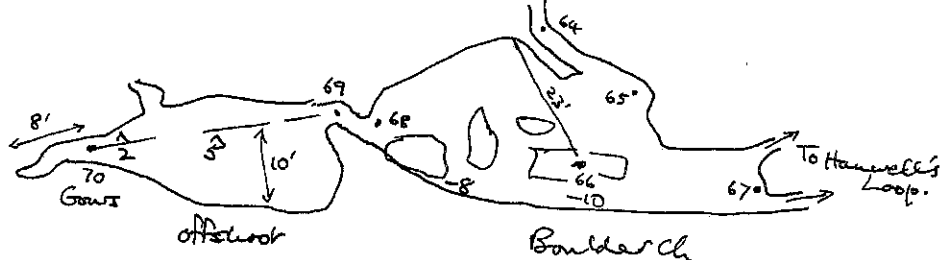
Jun. Grade 5.5

see p. 37

1/2, 3, 1, 1.

1, 2, 1, 2

Variation 8° 30' W (my new compass)



offshoot

Boulder ch

Note

2.5' ^{vertically} below chisel cross on wall (+252.4)

on ground 2' short of wall.

4, 1 1/2, 1, 1/2.

up shaft.

p. 39

Grade 6

Variation 7° 50' W (my new compass)

6, 2, 1, 3. Foot of slope up to shaft.

chisel cross at angle of roof + wall



on ground, in sand, end of dug passage.

0.9' vertically below big smoke cross on roof. (+253.7)

3, 3, 3, 3 (looking on). All in hard stones + earth, no soil

1, 4, 1, 1.

3, 3, 2, 6.

6, 2, 4, 1. Only lower left wall is solid, all else is hard.

3, 3, 2, 7. 2.9' vertically below big smoke cross on

Grade 6.

Variation 7

see p. 37.

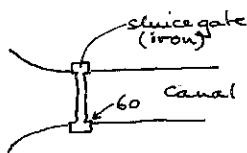
3' from canal. 50' from 55 canal is 6' away.

2' from canal

3' from canal

5' from canal

corner of iron plate over water



Marble pebble at point of large rock nose at ent. of Fissure Cave, marked by chisel groove.

BM 179.78 on Woolley Hill Church.

On wall

Bottom of top iron hinge on stone gatepost to Paper Mill.

Just outside arch

Edge of canal near outlet, 0.7' above water level. Water level 200.8' OD.

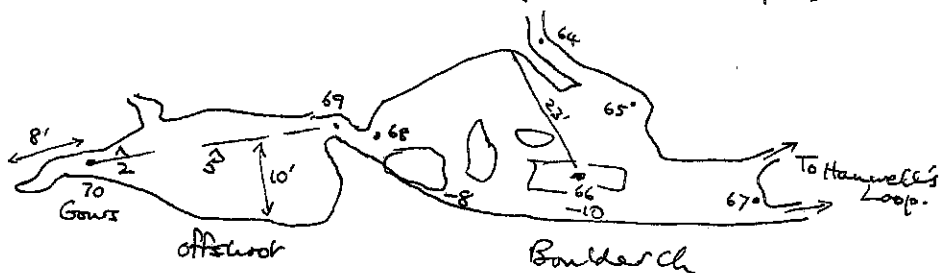
Tim. Grade 5

see p. 37

1/2, 3, 1, 1.

1, 2, 1, 2

Variation 8° 30' W (my new compass)



Sta	FS	BS	Beang	F.Climo	Dist	Horiz	Vert	Act	Attc
66-67	139 00		139 00	- 1 00	18.8	18.8	- 0.3	450.5	
67								450.2	
66-68	332 30		332 30	+ 9 30	20.1	19.8	+ 3.3	450.5	
68-69		171 00	351 00 162 130	- 30 00	4.3	3.7	- 2.2	453.8	
69-70	290 30		290 30	- 11 00	25.0	24.5	- 4.8	451.6	
70								446.8	
44-71		044 00	224 00 228 130	- 16 00	5.2	5.0	- 1.4	468.7	
71-72	166 00		166 00	- 33 00	13.6	11.4	- 7.4	467.3	
72-73		325 00	145 00 316 130	+ 12 00	7.7	7.5	+ 1.6	459.9	
73-74	121 00		121 00	- 29 00	6.3	5.5	- 3.1	461.5	
74-75		280 30	100 30 272 100	+ 6 00	6.3	6.3	+ 0.7	458.4	
75-76	070 00		070 00	- 39 00	7.5	5.8	- 4.7	459.1	
76-77		300 00	120 00	+ 19 00	11.5	10.9	+ 3.7	454.4	
77-78	200 00		200 00	- 41 30	7.9	5.9	- 5.2	458.2	
78-79				- 90 00	2.7	0.0	- 2.7	453.0	
79-80		152 00	332 00	- 37 30	4.3	3.4	- 2.6	450.3	
80-81	275 00		275 00	- 31 00	5.8	5.0	- 3.0	447.7	
81-82				- 90 00	13.6	0.0	- 13.6	444.8	
82-14		071 00	251 00	- 9 00	7.2	7.1	- 1.1	431.2	
14								430.1	

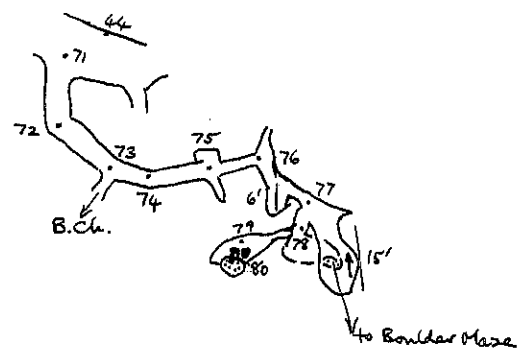
Z-Alley Read's Cavern				April 10 th 1966		Howard, Ian Standup			
34-83		011 40	191 40	- 1 00	15.1	15.1	- 0.3	469.5	
83-84	071 00		071 00	- 43 00	15.5	11.3	- 10.6	469.2	
84-85				- 90 00	2.1	0.0	- 2.1	458.6	
85-86		286 10	106 10	- 21 00	8.0	7.5	- 2.9	456.5	
86-87	197 40		197 40	+ 2 00	25.4	25.4	+ 0.9	453.6	
87-88		229 00	049 00	- 21 00	3.6	3.4	- 1.3	454.5	
88-89	252 00		252 00	- 38 30	6.7	5.2	- 4.2	453.2	
89-90				- 90 00	3.3	0.0	- 3.3	449.0	
90-91		152 00	332 00	- 22 00	7.9	7.3	- 3.0	445.7	
91-92	193 00		193 00	- 43 00	21.2	15.5	- 14.4	442.7	
92-93				- 90 00	1.8	0.0	- 1.8	428.3	
93-94		319 00	139 00	- 24 00	7.0	6.4	- 2.8	426.5	
94-95	078 00		078 00	- 13 30	13.2	12.8	- 3.1	423.7	
95-96				- 90 00	11.3	0.0	- 11.3	420.6	
96-97		191 00	011 00	0 00	1.4	1.4	0.0	409.3	
97-98				- 90 00	9.8	0.0	- 9.8	409.3	
98-99		043 00	223 00	- 15 00	3.5	3.4	- 0.9	399.5	
99-100	117 00		117 00	- 35 30	12.0	9.8	- 7.0	398.6	
100-101				- 90 00	3.0	0.0	- 3.0	391.6	
101-102	140 00		140 00	- 19 00	6.8	6.4	- 2.2	388.6	
102-end	050 00		0.050 00	- 8 Feet	12.0	12.0	- 8.0	386.4	
end								378.4	
98-103		119 00	299 00	+ 12 00	12.6	12.3	+ 2.6	399.5	
103-104	034 30		034 30	- 32 30	11.5	9.7	- 6.2	402.1	
104-105				- 90 00	3.0	0.0	- 3.0	395.9	

Notes.

2, 3(10), 23, 7. Boulder Ch

1, 1, 2, 2. Extension
 8' to end in narrow tunnel.
 see p. 37. Start of Jim's Loop

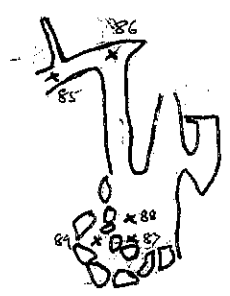
3, 0, 2 1/2, 1 1/2.
 2, 3, 5, 2.
~~2, 2, 2, 2~~
~~2, 2, 2, 2~~ 3, 2, 2, 6.
 2, 1/2, 2, 1.



head of final drop.

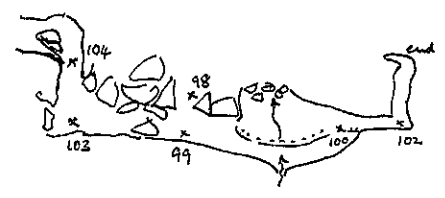
see p. 35. Vertical measurement 0.3' in 222.5' = 0.1%
 Grade 5 Variation 8°30' W (my new compass)
 see p. 35.
 Entrance to 2 Alley at 5'.

/, /, 2 (15 in rift), 3.
 1, 2, 4 (gravel), /.
 boulders
 "
 "
 "



6, 3, 2, 6. Picturesque drift.
 boulders
 solid rock on right
 4, 3, 2, 3. Solid rock on right
 boulder chamber
 /, boulder, 15 (rubble) 4. Leg line continues 10' in rubble.
 boulder ch
 "

1, 3, 3, 2. Ent. to Waterfall Ch. Stream enters 8' on right halfway along leg.



Waterfall Ch.

see above
 1, 2, 3, /.

[illegible]

end

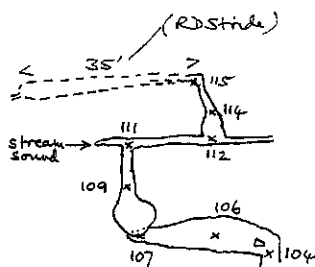
④

Notes

7, 2, 2, 6. Solid rock walls & floor.

Splash pot.

14, 5, 2, 2.



Sound of big stream thru crack to W.

1/2, 6 1/2, 1, 1.

6 1/2, 2, 2, 3.

4, 3, 2, 1.

corner in 'sump', v. tight tube with 6" pool.

Grade 5

p. 35

Variation 8.30° W (my new compass)

E. End of cliff

cliff overhangs 7.5'

Near side of Foxholes entrance.

→ cliff overhangs 3.5'. 119 is 8' higher than lowest point of depression, under cliff, 15' away.

W. end of cliff.

p. 35

10' on in same line is 90° bend to left, starting upper way into Grotto.

Entrance to Grotto passage

1/1, 1, 2.

2, 3, 3, 2. Upper way enters 6' back & 6' higher than 125, above 10' hole away boulders in floor.

15, 0, 3, 4. Stal boss on top of mound 13' 125' 4' 124 Section.

14, 5, 3, -.

boulder maze with vert. range of c. 20'.



March 8th 1967

All bearings magnetic, Variation 7° 55' W (my new compass)

Bracelet Cave. Drillmark 6' up on North wall at entrance.

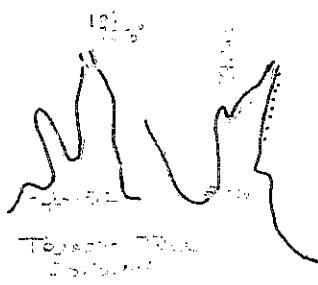
On tip

'Triassic Tube.' Drillmark over centre of entrance, 3' up.

Drillmark on

Drillmark on

Cook's Hill



ink

15' from hole.

Drillmark in cliff over cen

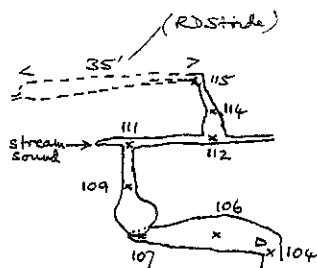
up.

Notes

7, 2, 2, 6. Solid rock walls & floor.

Splash pot.

14, 5, 2, 2.



Sound of big stream thru crack to W.

$\frac{1}{2}$, $6\frac{1}{2}$, 1, 1.

$6\frac{1}{2}$, 2, 2, 3.

4, 3, 2, 1.

corner in 'sump', v. tight tube with 6" pool.

Grade S

Variation $8.30^\circ W$ (my new compass)

p. 35

E. End of cliff

cliff overhangs 7.5'

Near side of Foxholes entrance.

→ cliff overhangs 3.5'. 119 is 8' higher than lowest point of depression, under cliff, 15' away.

W. end of cliff.

p. 35

10' on in same line is 90° bend to left, starting upper way into Grotto.

Entrance to Grotto passage

1, 1, 1, 2.

2, 3, 3, 2. Upper way enters 6' back & 6' higher than 125, above 10' hole among boulders in floor.

15, 0, 3, 4. Stal boss on top of mound



14, 5, 3, -.

boulder maze with vert. range of c. 20'.

March 8th 1967

All bearings magnetic, Variation $7.55^\circ W$ (my new compass)

Bracelet Cave. Drillmark 6' up on North wall at entrance.

On tip

"Triassic Tube"

: of entrance, 3' up.

drillmark on west side of ash trunk

drillmark on east side of ash trunk, 15' from hole.

Cook's ^{Hill} Wood Hole, south entrance. Drillmark in cliff over centre of entrance, 4' up.

Sta	FS	BS	Beamp	F Cline	Dist	Horiz	Vert	Alt	Alt ^c
Co-ords Bk 3 p.10 EBBOR GORGE - Primrose Valley. Cook's ^{Hill} Hole to reservoir									
11-14	182 10		182 10	+14 20	15.1	14.6	+ 3.7	508.2	
14 Δ								511.9	
13-15		204 50	024 50	-14 20	13.1	12.7	- 3.2	512.2	
15-16	308 30		308 30	+ 8 00	11.5	11.4	+ 1.6	509.0	
16-17		127 40	307 40	+16 30	20.1	19.3	+ 5.7	510.6	
17-18	190 30		190 30	+ 15 40	14.8	14.3	+ 4.0	516.4	
18 Δ								520.4	
17-19	015 25		015 25	-25 05	37.1	33.6	- 15.7	516.4	
19-20	318 30	137 20	317 55	- 2 10	50.7	50.8	- 1.9	500.7	
20-21	009 00	189 00	009 00	- 16 30	74.8	90.9	- 26.9	498.8	
21-22		191 20	011 20	- 20 20	25.3	23.7	- 8.8	472.0	
22-23	035 50	216 00	035 55	- 12 40	41.8	40.8	- 9.2	463.2	
23 Δ								454.0	
Co-ords Bk 3 p.10-11 EBBOR GORGE - Primrose Valley. Downstream from Reservoir									
23-24		249 15	069 15	- 15 05	16.9	16.3	- 4.4	454.0	
24-25	030 00	209 40	029 50	- 5 30	59.2	58.9	- 5.7	449.7	
25-26	108 15	287 50	108 00	- 11 10	81.4	79.8	- 15.8	444.0	
26-27	132 00	312 00	132 00	- 6 30	59.6	59.2	- 6.8	428.2	
27-28	134 15	314 05	134 10	- 7 15	91.0	90.3	- 11.5	421.5	
28-29	118 00		118 00	- 5 00	43.8	43.6	- 3.8	410.0	
29-30	136 00	316 00	136 00	- 7 15	97.7	96.9	- 12.3	406.2	
30-31	152 05	332 35	152 20	- 5 30	98.1	97.6	- 9.4	394.0	
31-32	126 25	306 00	126 10	- 6 00	98.7	98.1	- 10.3	384.6	
32-33	108 00	288 40	108 20	- 3 20	93.5	93.3	- 5.4	374.2	
33 Δ								369.0	
Co-ords Bk 3 p.11 EBBOR GORGE - Primrose Valley down to Ebbor junction									
33-34	15 10	330 50	151 00	- 7 55	76.0	75.3	- 10.5	369.0	
34-35	138 30	318 40	138 35	- 4 10	96.4	96.1	- 7.0	358.5	
35-36	147 00	326 20	146 40	- 5 55	97.6	97.1	- 10.1	351.5	
36-37	153 10	333 00	153 05	- 4 10	94.3	94.0	- 6.9	341.4	
37-38	140 20	320 00	140 10	- 6 35	98.2	97.5	- 11.3	334.5	
38-39	134 25	314 40	134 30	- 6 20	91.9	91.3	- 10.1	323.2	
39-40	108 10	288 15	108 10	- 7 15	77.4	76.8	- 9.8	313.1	
40-41	118 00	292 40	112 50	- 3 10	59.7	59.6	- 3.3	303.3	
41-42	118 20	298 00	118 10	- 6 10	92.4	91.8	- 4.9	300.0	
42-43	359 10	179 00	359 05	+ 4 25	94.1	93.8	+ 7.3	290.1	
43 Δ								297.4	
42-44	154 15	334 30	154 25	- 1 10	96.0	96.0	- 2.0	290.1	
44 Δ								288.1	
Co-ords Bk 3 p.11 EBBOR GORGE - Upgorge to near Tower Rock.									
43-45									

Notes

March 16th 1967All bearings magnetic, Variation $8^{\circ}10'W$ (my new compass)

p. 45

Twin C

Twin C



centre of entrance of south crack, 4' up.

Cook's ^{Hill} ~~tree~~ hole, main entrance. Drillmark in cliff on E side of entrance, 6' up.

Drillmark in oak trunk.

East corner of reservoir, east tip of corrugated iron roof, corner bent up in loop.

March 13th 1967Variation $8^{\circ}10'W$ (my new compass)

Drillmark in ash trunk by stream, 6' up.

6' SW of stream, 2' up.

Over stream, 2' up.

6' SW of stream, 4' up.

Drillmark in elm trunk over stream, 5' up.

10' SW of stream, 3' up.

c. 55' SW of stream, 3' up on valley flat.

c. 50' SW of stream, 3' up.

Drillmark on SW side of big elm trunk, 4' up. 10' over incised stream.

March 14th 1967Variation $8^{\circ}15'W$ (my new compass)

see above.

8' SW of stream, 3' up.

Drillmark in NE side of hazel trunk, 30' SW of stream, 5' up.

3' NE of stream, 4' up. At 12' the leg crosses an old wall, 6' from stream.

Drillmark in semiprune hornbeam(?) trunk, 22' NE of stream, 4' up. Leg crosses stream at 77.0.

6' SW of stream, 6' up.

Drillmark in top of 2' hazel stump, 8' SW of stream, 6' up. Leg crosses stream at 22.0.

20' NE of stream, 3' up.

Drillmark in S side of straight elm trunk by path, 6' up. 25' N of stream, 6' up.

Elbow thalweg (ET), 3' up, 45' NE of stream.

Drillmark in E side of ash trunk, 10' E of ET, 6' up.

Drillmark on E side of forked ash trunk in ET, by path, 6' up, 45' east of stream.

March 17th 1967Variation $8^{\circ}10'W$ (my new compass)

see above

Elbow Thalweg, 3' up

Drillmark in east side of elm trunk in ET, 6' up.

ET, 3' up.

Peacock Tube. Drillmark just above centre of c

Peacock
Tube
27.10.1967

Notes

Marc

All bearings magnetic, Variation $8^{\circ}10'W$ (my new compass)

p. 45

"Twin Cocks". Drillmark over centre of entrance of south cock, 4' up.

Cook's ^{Hill} Wood Hole, main entrance. Drillmark in cliff on E side of entrance, 6' up.

Drillmark in oak trunk.

East corner of reservoir, east tip of corrugated iron roof, corner bent up in loop.

March 13th 1967Variation $8^{\circ}10'W$ (my new compass)

Drillmark in ash trunk by stream, 6' up.

6' SW of stream, 2' up.

Over stream, 2' up.

6' SW of stream, 4' up.

Drillmark in elm trunk over stream, 5' up.

10' SW of stream, 3' up.

c. 55' SW of stream, 3' up on valley flat.

c. 50' SW of stream, 3' up.

Drillmark on SW side of big elm trunk, 4' up, 10' over incised stream.

March 14th 1967Variation $8^{\circ}15'W$ (my new compass)

see above.

8' SW of stream, 3' up.

Drillmark in NE side of hazel trunk, 30' SW of stream, 5' up.

3' NE of stream, 4' up. At 12' the leg crosses an old wall, 6' from stream.

Drillmark in semiprone hornbeam(?) trunk, 22' NE of stream, 4' up. Leg crosses stream at 77.0.

6' SW of stream, 6' up.

Drillmark in top of 2' hazel stump, 8' SW of stream, 6' up. Leg crosses stream at 22.0.

20' NE of stream, 3' up.

Drillmark in S side of straight elm trunk by path, 6' up. 25' N of stream, 6' up.

Ebbor thalweg (ET), 3' up, 45' NE of stream.

Drillmark in E side of ash trunk, 10' E of ET, 6' up.

Drillmark on E side of forked ash trunk in ET, by path, 6' up, 45' east of stream.

March 17th 1967Variation $8^{\circ}10'W$ (my new compass)

see above

Ebbor thalweg, 3' up

Drillmark in east side of elm trunk in ET, 6' up.

ET, 3' up.

Peacock Tube. Drillmark just above centre of entrance, 2' up.

Sta	FS	BS	Beang	F Clin	Dist	Horiz	Vert	Alt	Alt ^c
Co-ords Bk 3 p. 12									
47-49	008 00	187 40	007 50	+ 6 10	85.2	84.7	+ 9.1	311.8	
49-50	007 50	187 30	007 40	+ 2 30	96.6	96.5	+ 4.2	320.9	
50-51	015 50	195 40	015 45	+ 4 25	82.7	82.4	+ 6.4	325.1	
51-52	020 00	200 00	020 00	+ 11 10	84.1	82.5	+ 16.3	331.5	
52-53	012 10	192 30	012 20	+ 20 10	61.7	57.9	+ 21.2	347.9	
53 Δ								369.1	

Co-ords Bk 3 p. 12

RESERVOIR HOLE - South Passage

March 18th 1967

Q-449	007 20	182 20	+ 25 30	23.2	20.9	+ 10.0	367.7
449-450	189 55	189 55	+ 2 35	20.5	20.5	+ 0.9	377.7
450-451	017 50	197 50	- 18 05	17.6	16.7	- 5.5	378.6
451-452	191 05	191 05	- 6 00	12.3	12.2	- 1.3	373.1
452 ⊕				73.6			✓ 371.8

Read's Cavern - levelling from Bos Sw. to entrance.

127-128	+ 25 15	16.4	+ 7.0	584.8
128-129	+ 11 50	40.5	+ 8.3	591.8
129-130	- 1 20	99.3	- 2.3	600.1
130-131	+ 0 05	100.0	+ 0.1	597.8
131-132	- 4 40	97.6	- 8.0	597.9
132-133	- 2 55	98.4	- 5.0	589.9
133-134	- 5 15	96.0	- 8.8	584.9
134-135	- 3 45	97.9	- 6.4	576.1
135-136	- 3 10	97.0	- 5.4	569.7
136-137	- 0 15	97.6	- 0.4	564.3
137-138	- 8 20	48.5	- 7.0	563.9
138-139	- 20 10	36.9	- 12.7	556.9
139-140	- 23 10	44.0	- 17.3	544.2
140 Δ				✓ 526.9

Co-ords Bk 3 p. 12

EBBOR GORGE - closure to Bracelet Cave.

March 20th 1967

41-54		272 50	092 50	- 6 25	21.2	21.1	- 2.4	448.7
54-55	056 50	236 30	056 40	- 23 25	99.3	91.1	- 39.5	446.3
55-56	c. 091 30	270 30	090 30	- 23 40	97.8	89.6	- 39.3	406.8
56-57	048 45	228 30	048 35	- 11 00	96.6	94.8	- 18.4	367.4
57-58	049 50	229 10	049 30	- 0 05	80.5	80.5	- 0.1	349.0
58-35	329 00		329 00	+ 9 50	16.1	15.9	+ 2.7	348.8
35								351.5

Co-ords Bk 3 p. 12

EBBOR GORGE - closure Primrose Valley to Ebbor across ridge

35-59	113 40	293 30	113 35	+ 0 25	99.2	99.2	+ 0.7	351.5
59-60	058 55	c.239 00	058 55	+ 16 10	62.1	59.6	+ 17.3	352.2
60-61	039 50	220 40	040 15	+ 10 40	75.4	74.1	+ 14.0	369.5
61-62	044 40		044 40	- 2 45	49.8	49.7	- 2.4	383.5
62-63	c.099 00	278 15	098 30	- 25 10	81.1	73.4	- 34.5	381.1
63-49	113 00	293 00	113 00	- 19 50	75.8	71.4	- 25.7	346.6
49								320.9

Notes

see p. 48

ET. sharpened hazel sapling 4' up ? on scree.

ET. 4' up.

Carb. Ls. starts here. ET. Drillmark 6' up on W side of ash trunk. Leg crosses wall at 29.5, just after start of scree.

ET. 3' up, on scree.

ET. 6' up, on scree. Drillmark 6' up on west side of small twin ash trunk at bottom of path up to Tower Rock.

Tony Fardon

All bearings magnetic, Variation $8^{\circ}10' W$ (my new compass)

Q of p. 27.

Middle of First Chamber, 3' up.

3, 4, 0, 2. 6' beyond top of stal boss.

2, 3, 1.5, 1.5. Roof goes up to 10' high at 5.0.

Drillmark in E. wall. 10, 1.5, 0, 3 (looking south).

March 19th 1967. Ten.

Bos Swallow, Crickmay's B.M. 584.76

3' up

3' up

1' up

3' up

1' up

3' up

1' up

3' up

1' up

3' up

1' up

3' up

Read's entrance, Crickmay's B.M.c.

see p. 35

Variation $8^{\circ}10' W$ (my new compass)

Page 45. Bracelet Cave drillmark.

On tip, 3' up.

Drillmark in hazel trunk, 3' up. Middle of path at 85.0.

3' up.

0.5' up.

3' up.

see p. 47.

March 21st 1967 Ten

Variation $8^{\circ}10' W$ (my new compass)

see p. 47.

~~Drillmark~~ 3' up.

Drillmark 2' up in ivy-covered elm trunk, in wall.

3' up, 4' SE of wall.

Ash trunk drillmark, 4' up.

3' up.

see above.

[illegible]

Co-ords	BBOR	GORGE	- upgorge	past the Narrows	March 30 th	1967
78-79	096 50	277 00	096 55	+ 18 00	281.5	28.1 + 9.1 468.1
79-80	312 30	c. 133 15	312 40	+ 11 50	64.8	63.5 + 13.3 477.2
80 Δ						490.5
79-81	035 15	c. 216 10	035 30	+ 21 50	92.3	85.7 + 34.4 477.2
81-82		223 40	043 40	+ 48 45	24.1	15.9 + 18.1 511.7
82-83	146 00		146 00	+ 14 30	20.1	19.5 + 5.0 529.8
83 Δ						534.8
82-84	058 20	238 30	058 25	+ 16 30	56.2	53.9 + 16.0 529.8
84						545.8

Co-ords Blk 2 p.14		EBBER GORGE - upgarage towards Savary's Hole							April 1 st 1967
84-85	07(20)	25(40)	071 30	+ 4 25	92.5	92.2	+ 7.1	545.8	
85-86	073(45)	253(30)	073 40	+ 6 00	89.8	89.3	+ 9.4	552.9 562.3	

Notes

All bearings magnetic, Variation $8^{\circ}10'$ West (my new compass)

p. 33.

rim of top concrete pipe, south side. Very bottom is 3' further SW + 8' lower (than station 12)

1, 0, 2, 2. On steep slope just above Luke's drillhole.

10, 8, 1, 5 to Giant's Arms. Mid-air at entrance to feeding plane.

2.5, 2.5, 8 (inlet), 0. On wall at hairpin, a few inches from lip of drop. *Climo reading from 0.8' below 14.

1.5, 1, 2, 2. Sharp corner of huge flake in floor.

Rollered yellow bucket in constriction, passage continues v. tight + bears slightly ~~left~~ right.

Variation $8^{\circ}20'$ W (my new compass)

5' up, on scree.

Step Hole. Drillmark 5' above entrance step, facing west.

ET. 3' up, on scree.

ET. Drillmark in lone ash trunk, 6' up on west side.

see above.

ET. 4' up, on old wall.

3' up in prone dead ash trunk.

26.3.69

Section

in south wall at entrance, 3' up.

prone old dead trunk.

Drillmark in roof of entrance, N. central, facing W, 5' up.

prone dead trunk 6' up.

Variation 8.00 W (my new compass)

see above

10' east of ET, 7' up.

Lion Cave? Drillmark 5' up on north side of entrance, facing south.

Little spring and solid rock 15' back from 81.

In Narrows, 1' up. "Narrows Cleft", 5' long trending 278° , starts 7' from 81 at 278°

Top of cliff above ET trench, c. 10' up.

Drillmark in large flat face facing west above little hole, 5' up.

Barked twig on elm trunk, 6' up in ET.

Variation $8^{\circ}20'$ W (my new compass)

see above.

ET, 3' up, 10' E of wall.

Notes

All bearings magnetic, Variation $8^{\circ}10'$ West (my new compass)

p. 33.

rim of top concrete pipe, south side. Very bottom is 3' further SW + 8' lower (than station 12)
 1, 0, 2, 2. On steep slope just above Luke's drillhole.

Mid-air at entrance to feeding plane.

at hairpin, a few inches from lip of drop. *Climo reading from 0.8' below 14.

sl

tight + heart slightly ~~left~~ right.

Variation $8^{\circ}20'$ W (my new compass)

p. 49

ET, 5' up on scree.

Smoky ^{Shelter} Hole. Drillmark 3' up on south side of entrance, facing east.

ET. 3' up, on scree.

5' up, on scree.

Step Hole. Drillmark 5' above entrance step, facing west.

ET. 3' up, on scree.

ET. Drillmark in lone ash trunk, 6' up on we

see above.

ET. 4' up, on old wall.

ET. on scree. Drillmark 3' up in prone dead ash,

ET. on scree, 4' up.

High Rift Cave. Drillmark in south wall at entrance

ET. Drillmark 3' up in prone old dead trunk.

ET. 3' up.

Curry Creek ^{Kids Hole} Cave. Drillmark in roof of entrance, N. central, facing W, 5' up.

ET. Drillmark in prone dead trunk 6' up.

Variation 8.00 W (my new compass)

see above

10' east of ET, 7' up.

Lion Cave? Drillmark 5' up on north side of entrance, facing south.

Little spring and solid rock 15' back from 81.

In Narrows, 1' up. "Narrows Cleft", 5' long trending 278° , starts 7' from 81 at 278°

Top of cliff above ET trench, c. 10' up.

Drillmark in large flat face facing west above little hole, 5' up.

Barked twig on elm trunk, 6' up in ET.

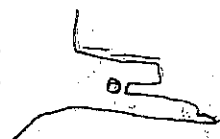
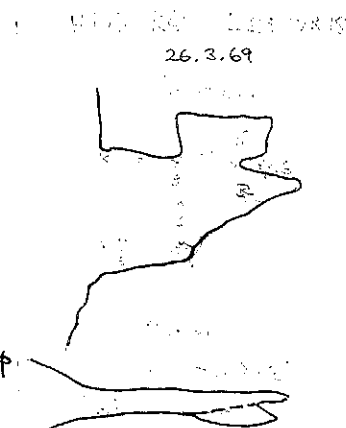
Variation $8^{\circ}20'$ W (my new compass)

see above.

ET, 3' up, 10' E of wall.

3.15	13.4
3.15	20.5
3.20	17.5
3.01	10.0
3.22	7.5
3.15	20.5
3.15	20.5
3.15	20.5

Variation $8^{\circ}30'$ W (my new compass)



Notes

Drillmark in prone dead ash trunk 3' south of wall, 5' up in ET

10' south of ET, 6'

ET, 2' up. Leg 1

ET, 3' up. Leg 5

ET. Drillmark sh trunk, 5' up.

ET. 3' up.

ET. Drillmark sh trunk, 5' up.

see above

ET, 3' up.

ET, drillmark on west side of gnarled ash trunk, 6' up.

ET, 3' up.

Savory's Hb. Drillmark in cliff in middle of entrance, facing east, 7' up.

October 13th 1967.

^{Shelter} Smoky Hole drillmark, p. 51

Bearings magnetic, variation $8^{\circ}00'W$.

Museum: vertical 0.3' in 849' = 0.00036, error, 12 legs

see p. 49

Will R, Ian Forthling

Variation $8^{\circ}25'W$

p. 27 Drillmark in Moonwalk Ch.

Lip of shaft, S. side.

Level with floor of Will's passage.

Level with middle of lower big block (with iron support)

On floor of steep slope down into final passage.

Final passage, 1, 1, 1.5, 1.5

2.6, 0.3, -, -, Final passage, on boulder floor, above draught-emitting couch.

Drillmark on roof.

Oct. 18th 1967

Grade 6

Variation $8^{\circ}10'W$

^{Kids Hole} Smoky Hole Cave, p. 51

② Railhill hole 5' up in battered knob on W side of big ash trunk

^{Shelter} Smoky Hole drillmark, p. 51

Grade 6.

Variation $8^{\circ}10'W$ (my new compass)

Savory's Hole drillmark, see above.

Co-ords Bk 2 p 70	NORTH HILL SWALLET				Surface & underground			October 22 nd 1967
A 1-17	258 50	071 50	- 0 45	33.5	33.5	- 0.4	834.3	
17-18	010 20	190 20	- 1 35	28.7	25.7	- 0.7	833.9	
A 18	Nick in rim of concrete shaft, S. side, c. 2" above drill mark.						833.2	
17-19	165 00	345 10	+ 10 10	30.2	29.7	+ 5.3	833.9	
19-20	122 20	301 50	- 1 20	36.8	36.8	- 0.9	839.2	
A 20-21	124 50	304 30	- 1 05	26.8	26.8	- 0.5	838.3	
21							837.8	
A 18-22	007 40	007 40	- 83 00	56.7	6.9	- 56.3	833.2	
22-23	112 15	292 15	- 35 00	4.4	3.6	- 2.5	776.9	
23-24	177 00	177 00	- 45 35	9.8	6.9	- 7.0	774.4	
24-25	007 00	187 00	- 2 25	8.4	8.4	- 0.4	767.4	
25-26	172 00	172 00	- 42 00	11.5	8.5	- 7.7	767.0	
26-27	137 40	137 40	+ 7 10	4.3	4.3	+ 0.5	759.3	
27-28	265 00	085 00	- 10 50	18.2	17.9	- 3.4	759.8	
28-29	089 00	089 00	- 28 40	15.8	13.9	- 7.6	756.4	
29	Passage continues 6' in same line, then c. 8' (unbanged) 30° further S.						748.8	

Co-ords Bk 3 p15 EBBOR GORGE closure to Flat Face.						October 25 th 1967		
4	120-121	259 00	079 20	259 10 - 7 10	48.7	48.3	- 6.1	562.3
4	121-122	237 00	057 00	237 00 - 5 40	15.2	15.1	- 1.5	556.3
B	122-123	249 30	069 30	249 30 - 7 00	97.3	96.6	- 11.9	554.8
'	123-124	268 00	062 00	268 00 + 7 10	20.9	20.7	+ 2.6	542.9
@	124-125	241 30	062 00	241 45 - 18 20	40.1	38.1	- 12.6	545.5
!	125-83	183 00	062 00	183 00 + 4 05	26.7	26.6	+ 1.9	532.9
!	83 @							534.8

[illegible]

452.2

C Co-ords Bk 3 p 16-17 EBBOR GORGE. Start of Bridged Pot Loop. April 18th 1968 Jen

99	83-131	049 50	229 50	+ 3 30	241	21.1	+	1.3	534.8
111	131-132	211 40	211 40	+ 18 20	170	10.4	+	3.5	536.1
111	132-133	154 00	154 00	+ 2 feet	147.5	19.5	+	2.0	539.5
	133	entrance of bedding plane 6" high going in c. 6' at 130° mag.						541.5	

Notes

Rawdrill hole on W side of Hawthorn trunk, 5' up.

approx = 86, in prone dead ash trunk, p. 53
Mike Thompson, Dave Caneer Grade 6
p. 33

Resins magnetic, variation $8^{\circ}10'W$

Drillmark in sycamore trunk

Drillmark in top of wooden post, SW corner of

Near top of Lukes drill hole
midair above bottom of dry stone wall.
corner in low creep.

1, 6, 2, 2. just beyond lip of pothole
floor

on RH wall, 1' up.

Drillmark in knob on N. wall, c. 1.5' below roof.

Grade 6

see above

L170 VR90

Variation $8^{\circ}10'W$

= 84 on p. 51

Flat Face drillmark, p. 51 Variation $8^{\circ}00'W$
Grade 6

Flat Face, p. 51.

Kids Hye
Curry Creek Cave

Grade 6

Variation $7^{\circ}50'W$

Flat Face, p. 51
path, 3' up.

Notes

Rawkill hole on w side of Hawthorn trunk

approx = 86, in prone dead ash trunk, p.
Mike Thompson, Dave Canler Grade 6
p. 33

hollowed in sycamore trunk

drillmark in top of wooden post, SW corner of fence.

Near top of Lukes drill hole
midair above bottom of dry stone wall.
corner in low creep.

1, 6, 2, 2. just beyond lip of pothole floor

on RH wall, 1' up.

Drillmark in knob on N. wall, c. 1.5' below roof.

Grade 6

see above

L170 VR90

Variation $8^{\circ}10'W$

= 84 on p. 51

Flat Face drillmark, p. 57 Disclosure Medical Definition
Grade 6

Flat Face, p. 51.

Variation $8^{\circ}00'W$

Kids Home
~~Swampy Creek Cave~~

Grade 6

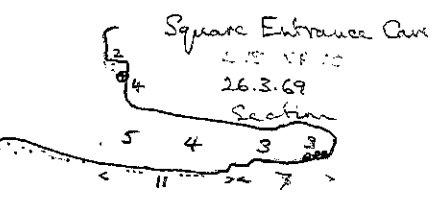
Variation $7^{\circ}50' W$

Flat Face, p. 51
path, 3' up.

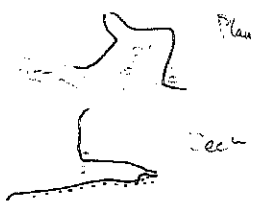
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Notes

entrance arch.



26.3.69



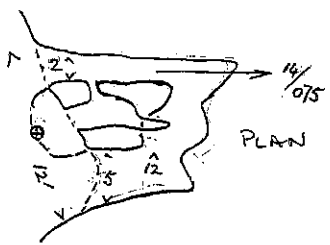
096° msk.

Variation 8°10' W

26.3.69 L40 VR14

⊕ ash trunk 2' up.

⊕ 5' up in Hawthorn branch
Grade 6



Variation 8°10' W

Bridged Pot
23.4.1969



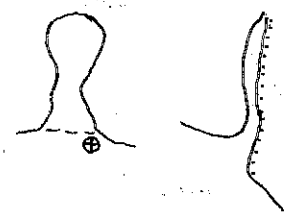
On tip.

p.53

Blackburne Vertical 0.5' in 622' ...
Grade 6

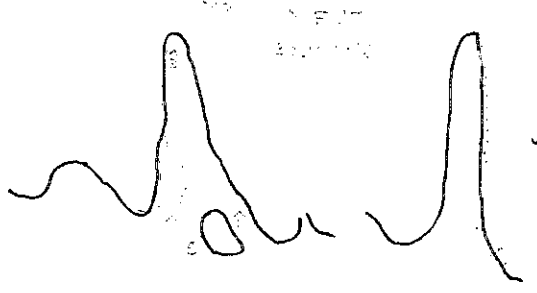
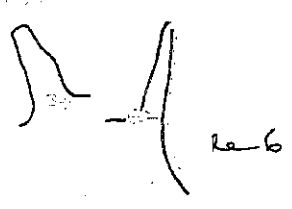
Variation 8°00' W

p.53



re 6

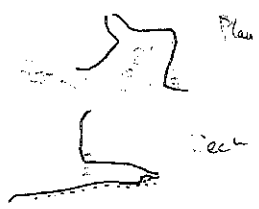
~ 8°10' W



Notes

entrance arch.

26.3.69

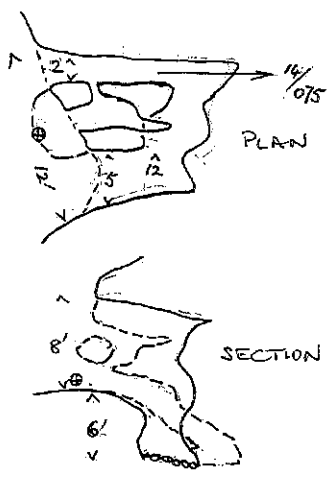


~~No~~

Dillmeth 5' up in oak trunk.
Grade 6

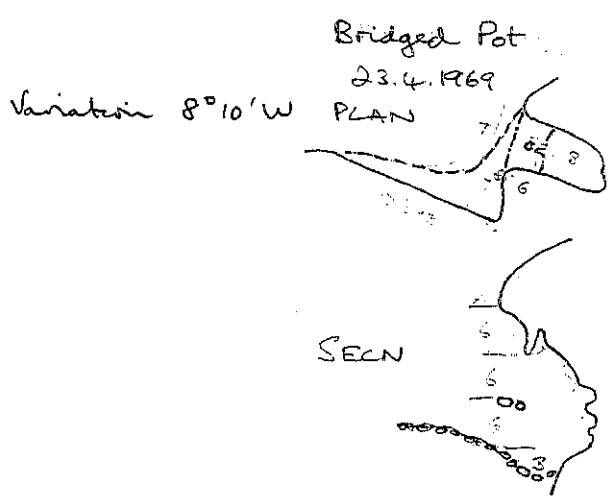
Variation 8°10' W

26.3.69 L40 VR14



⊕ ash trunk 2' up.

⊕ 5' up in hawthorn branch
Grade 6



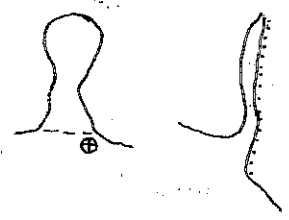
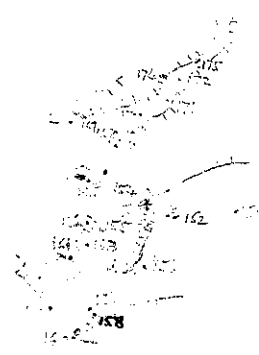
On tip.

p.53

Vertical 0.5' in 2.5' -
Grade 6

Variation 8°00' W

p.53

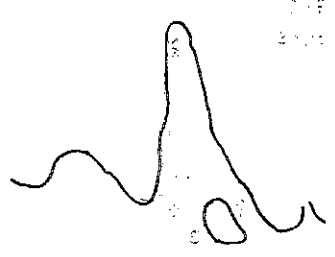


Grade 6

Variation 8°10' W

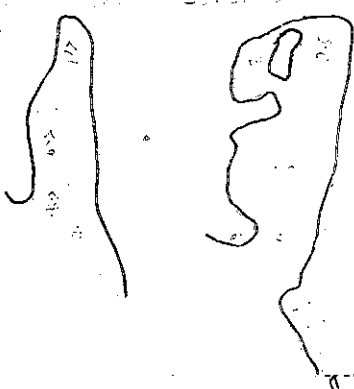
Grade 6

Variation 8°10' W



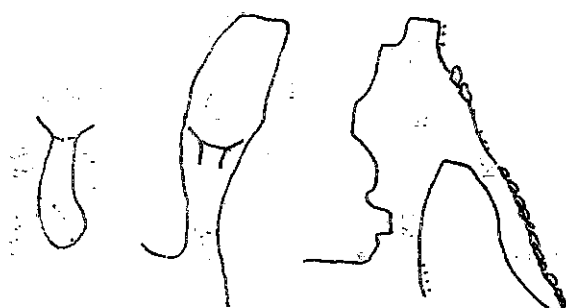
Sta	FS	BS	Bearing	FCline	Dist.	Horiz	Vert	Alt	AltC
161-163	068 40		068 40	+ 1 00	15.0	15.0	+ 0.3	544.5	
163-164		184 20	004 20	+ 7 10	23.6	23.4	+ 2.9	544.8	
164-165	001 20	181 00	001 10	+ 5 05	60.6	60.4	+ 5.4	547.8	
165 ⊕	Little Shelter Upstairs Cave (cleaned out) Drillmark 5' up in crown of arch, facing SE.								553.2
165-166		255 45	075 45	- 8 30	27.5	27.2	- 4.1	553.2	
166-167	027 00	206 10	026 35	+ 21 50	52.3	48.5	+ 19.5	549.2	
Co-ords Bk 3 p 17 EBBOR GORGE Outlook Cave and Primrose Shelter. May 6 th 1968									
167-168		182 30	002 30	+ 11 05	13.2	13.0	+ 2.5	568.7	
168-169	324 40	144 40	324 40	+ 26 10	61.2	54.9	+ 27.0	571.8	
169 ⊕	Outlook Cave. Drillmark 4' up, just N. of top of entrance arch, facing SE.								598.3
168-170	058 00	237 10	057 35	- 1 30	64.1	64.1	- 1.7	571.3	
170-171	081 10	260 40	080 55	- 13 30	59.0	57.4	- 13.8	569.6	
171-172	042 30	222 00	042 15	- 1 25	48.0	48.0	- 1.2	555.9	
172-173		151 00	331 00	+ 0 20	11.8	11.8	+ 0.1	554.7	
173-174	337 30		337 30	- 3 20	7.1	7.1	- 0.4	554.8	
174 ⊕	? Primrose Shelter. L10, VR4. Drillmark just above entrance to larger passage,								554.4
172-175	046 40	226 40	046 40	- 18 40	51.0	48.3	- 16.3	554.7	
175-176	100 00	279 50	099 55	- 13 30	61.1	59.4	- 14.3	538.5	
176-177	040 20	219 40	040 00	- 2 00	23.6	23.6	- 0.8	524.2	
177-178	072 20	252 20	072 20	- 15 45	49.2	47.4	- 13.4	523.5	
178	Drillmark in mossy wiggly ash trunk.								570.1
Co-ords Bk 3 p 18 EBBOR GORGE Closure of Tower Rock Loop; to Rabbit Hole. May 9 th 1968									
178-179	045 30	225 10	045 20	- 16 40	47.2	45.2	- 13.5	510.1	
179-180	104 20		104 20	- 0 35	28.2	28.2	- 0.3	496.7	
180-181		226 00	046 00	- 15 20	32.2	31.1	- 8.5	496.4	
181-80	320 00		320 00	+ 10 40	13.3	13.1	+ 2.5	488.0	
80 ⊕									490.5
Co-ords Bk 3 p 19									
105-182		199 00	019 00	- 9 30	8.7	8.6	- 1.4	401.8	
182-183	106 00	285 30	105 45	+ 24 40	77.5	70.4	+ 32.3	400.4	
183-184	114 15	296 00	114 08	+ 28 10	45.4	40.0	+ 21.4	432.7	
184-185	077 50		077 50	+ 36 15	37.0	29.8	+ 21.9	454.1	
185 ⊕									476.0
EBBOR GORGE Leveling to 300' contour May 11 th 1968									
44-186				- 3 25	98.0		- 5.7	288.1	
186-187				- 3 25	93.6		- 5.6	282.4	
187-188				- 1 50	66.6		- 2.1	276.8	
188-189				+ 1 20	76.4		+ 1.8	274.7	
189-190				+ 5 40	72.5		+ 7.2	276.5	
190-191				+ 6 40	86.8		+ 10.0	283.7	
191-192				+ 3 50	94.3		+ 6.3	293.7	
192								300.0	
Co-ords Bk 3 p 19 EBBOR GORGE Savory's Hole to Hawk's Nest Cave May 12 th 1968									
96-193	066 30	245 50	066 10	- 1 35	57.7	57.1	- 1.6		
193-194	017 50	197 30	017 40	+ 3 20	80.8	80.7	+ 4.7		
194-195	022 00	202 10	022 05	+ 1 30	91.3	91.3	+ 2.4		
195-196	017 00	197 00	017 00	+ 1 40	74.6	74.6	+ 2.2		

Notes

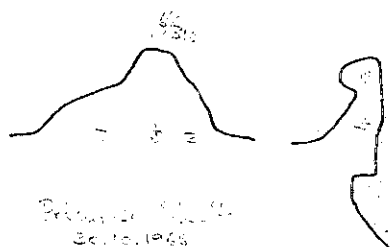


Grade 6

in ash trunk.



Facing east.



Grade 6

Variation $8^{\circ}00' W$

Site name: Vertical hole in 'SS' = 1/2" 1/2" legs. (not visible in photo)

Lion Cave drillmarks, p. 51.

p. 53



23.4.1969

Plan



Rabbit Hole (LS, VR2). Drillmark 1' above entrance of longest tube, facing W.

Sect

Rabbit
Hole

p. 47

300' contour on 6" O.S. map, $\pm 2'-3'$.

Grade 6

Savory's Hole, p. 53.

ET, 4' up.

ET 4' up.

ET 3' up

Variation $8^{\circ}10' W$

Sta	FS	BS	Bearing	F.Chino	Dist	Horiz	Vert	Alt	Alt C
196-197	025 00	205 00	025 00 025 00	+6 50	76.8	76.3	+ 9.1	619.8	
197-198	031 20	211 00	031 10	+2 40	66.7	66.6	+ 3.1	628.9	
198-199	026 30	206 30	026 30	+0 40	71.8	71.8	+ 0.8	632.0	
199-200	006 40	186 50	006 45	+7 20	61.1	60.7	+ 7.8	632.8	
200-201	336 00	156 10	336 05	+1 50	62.2	62.2	+ 2.0	640.6	
201-202	309 40	129 40	309 40	+5 20	78.0	77.7	+ 7.3	642.6	
202-203	201 50	021 10	201 30	+22 15	67.1	62.1	+25.4	649.9	
203-204	270 00		270 00	+12 30	8.2	8.0	+ 1.8	675.3	
204	Hawk's Nest Cave. L30, VR15. Drillmark in rock knob 6' up on E side of								677.1

Co-ords Bk 3 p20 EBBOR GORGE To Savory's Hole and Chest Shelter. Oct 24 1968

196-205	197 20	017 20	197 20	-1 40	81.5	81.5	- 2.4	619.8	
205-206	200 40	021 00	200 50	-1 05	96.3	96.3	- 1.8	617.3	
206-207	199 20	019 00	199 10	- 4 20	68.0	67.8	- 5.1	615.5	
207-96	245 40	c. 066	245 40	+1 40	58.0	58.0	+ 1.7	610.4	

196 612.1

204-208	055 00		055 00	+20 30	5.3	5.0	+ 1.9	677.1	
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208-209	316 50	137 00	316 55	+ 1 00	68.5	68.5	+ 1.2	679.0	
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209 680.2

Co-ords Bk 3 p21 Fissure Cave, Wookley. March 27th 1969 Tim Atkinson

58-67		257 15	077 15	-26 40	6.2	3.8	- 1.9	229.4	
67-68	126 40		126 40	+ 0 45	16.7	16.7	+ 0.2	227.5	
68-69		308 30	128 30	+ 5 30	25.4	25.3	+ 2.4	227.7	
69-70		302 00	122 00	- 3 00	16.3	16.3	- 0.9	230.1	
70-71	071 00		071 00	- 8 40	12.5	12.4	- 1.9	229.2	

71 227.3

Co-ords Bk 2 p71 Reservoir Hole. April 12th 1969 Main Dig continued

459-460				- 90 00	8.5		- 8.5	334.5	
460-461		095 30	275 30	- 44 00	3.2	2.3	- 2.2	326.0	
461-462	038 00		038 00	- 46 20	8.0	5.5	- 5.8	323.8	
462-463		174 30	354 30	- 48 40	11.1	7.3	- 8.3	318.0	
463-464	006 00		006 00	- 23 35	7.7	7.1	- 3.1	309.7	

464 306.6

Co-ords Bk 3 p20 EBBOR GORGE Codes Hill Hole and Bracelet Cave April 14th 1969 Jen

218-210		142 00	322 00	- 4 00	4.0	4.0	- 0.3	520.4	
210-211	163 00		163 00	- 47 30	19.2	13.0	- 14.2	520.1	
211-212		201 00	021 00	+ 13 00	1.9	1.9	+ 0.4	505.9	
212-213	160 00		160 00	- 39 00	14.1	11.0	- 8.9	506.3	
213-214		010 00	190 00	- 14 30	13.3	12.9	- 3.3	497.4	

214 494.1

21-215		279 00	099 00	- 17 30	8.0	7.6	- 2.4	448.7	
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215-216	264 00		264 00	- 9 20	20.5	20.2	- 3.3	446.3	
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216-217		030 00	210 00	- 80 00	8.4	1.5	- 8.3	443.0	
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217-218	210 00		210 00	- 55 00	12.5	7.2	- 10.2	434.7	
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218-219		300 00	120 00	+ 7 00	4.8	4.8	+ 0.6	424.5	
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219-220	245 00		245 00	+ 25 00	6.0	5.4	+ 2.5	425.1	
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220 427.6

All bearings magnetic.

ET, 1' up. Top of thin vertical crack in big rock, 6' at 325° from wall corner.

10' W of ET, 6' up.

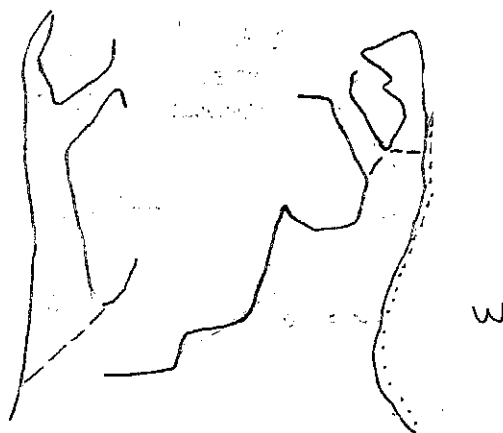
ET, 5' up.

ET, 3' up.

ET, 5' up.

ET, 4' up.

ET 6' up



W

main entrance, facing S.

Grade 6

see above

24.10.68

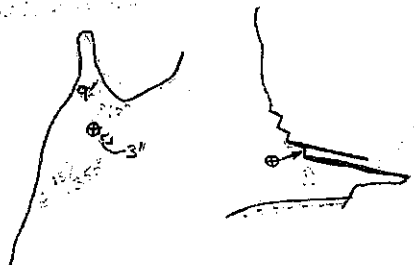
30.10.68

Savoy's H6

Hawth's N1

Second c

Chert Shells



49' back from 209, 2' to W of line & 2' lower.

massive of entrance, facing SE, 4' up, between 2 chert beds

Grade 5-6 (Compass, Fibron, Abney, tripod or hand held)

Variation $8^\circ 55' W$.

see p. 41

2.5, 2, 1, 0.

5, 0, 0.5, 1.

2, 2, 0, 1.5.

8, 6, 2, 0.

4, 1.5, 1, 1.

Eyeball distance out from

Point of signed scratched & pencilled arrow: $\downarrow$ 6' up on S wall.Centre of large cross & circle battered on face: $\oplus$

Grade 6 (compass, tripod, Abney, Fibron)

Variation $8^\circ 20' W$

15, 2.5, 1, 4.

3, 2, 2, 2. Entrance to squeeze at 5.0

2, 0, 2, 0. Top of big jammed block

6, 2, 4, 2. 3' before squeeze 1.5' x 1.5'.

1, 1, 5, 2. Drillmark facing back up passage in nose on W. wall.

Grade 4-5 (Compass, Fibron, Watkins clinometer)

Variation $8^\circ 20' W$.

Cook's Hill Hole, p. 47.

Bearing into uph

Passage to S. entro

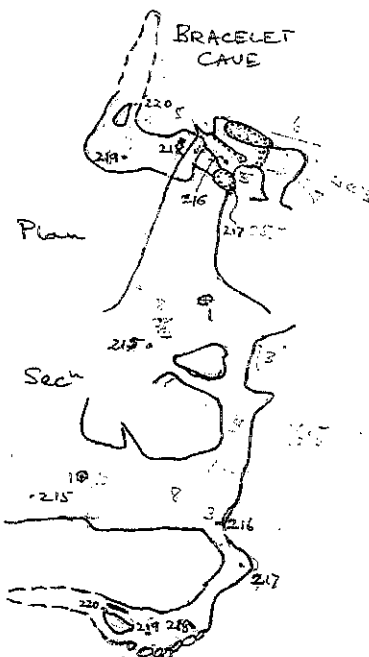
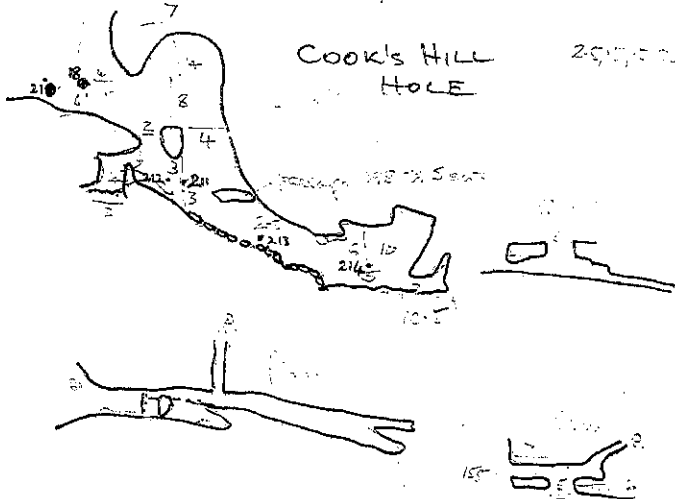
2.5, 5, 5, 2.5.

N end of stal k

Bracelet Cave p. 45

COOK'S HILL
HOLE

25/35/20



Upper entrance into Muddy grotto.

All bearings magnetic.

ET, 1' up. Top of thin vertical crack in big rock, 6' at 325° from wall corner.

10' W of ET, 6' up.

ET, 5' up.

ET, 3' up.

ET, 5' up.

ET, 4' up.

ET 6' up

main entrance $\frac{90.3}{95.612}$

Gv

see above

Variation $8^\circ 20' W$

Savoy's Hole, p. 53.

Hawk's Nest Cave drillmark, see above.

Second entrance to Hawk's Nest Cave is 49' back from dog, 2' to W of line & 2' lower.

Chert Shelter. Drillmark in roof, middle of entrance, facing SE, 4' up, between 2 chert beds.

Grade 5-6 (Compass, Fibron, Abney, tripod or hand held)

Variation $8^\circ 55' W$.

see p. 41

2.5, 2, 1, 0.

5, 0, 0.5, 1.

2, 2, 0, 1.5.

8, 6, 2, 0.

4, 1.5, 1, 1.

Eyeball distance out from

Point of signed scratched & pencilled arrow: $\downarrow$ 6' up on S wall.

Centre

Grade 6 (ca)

15, 2.5, 1, 4.

3, 2, 2, 2. Entrance

2, 0, 2, 0. Top of b

6, 2, 4, 2. 3' before

1, 1, 1.5, 2. Drillmark

Grade 4-5 (C)

Cooks Hill Hole, p. 47.

Bearing into upper cave 183° . Ent. at 4'.

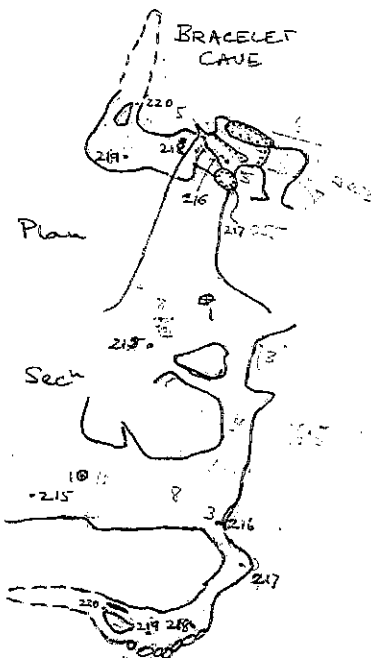
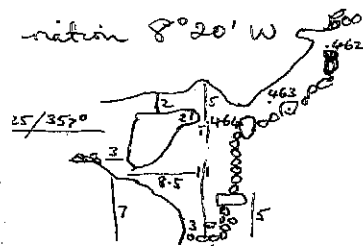
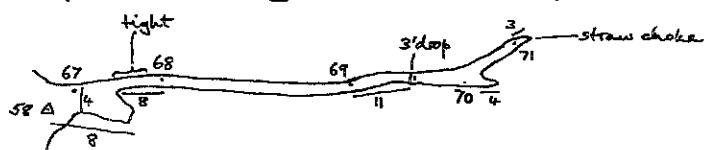
Passage to S. entrance at 4.5'

2.5, 1.5, 1.5, 2.5.

N end of stal knob in centre of chamber, 5' up.

Bracelet Cave p. 45

Upper entrance into Muddy grotto.



Sta FS BS Bearing F. Clino Dist Horiz Vert Alt AltC
~~185-221~~ Co-ords Bk 3 p20 ~~EBBOR Gorge. Rabbit Hole to Windy Hole.~~ April 24th 1969

185-221		055 15	235 15	- 22 05	5.6	5.2	- 2.1	476.0
221-222	209 30	030 00	209 45	- 22 45	44.4	40.9	- 17.2	473.9
222-223	173 50	353 20	173 35	+ 13 20	53.9	52.4	+ 12.4	456.7
223-224	252 00	071 40	251 50	- 9 00	55.2	54.5	- 8.6	469.1
224-225	252 00	071 30	251 45	- 10 30	31.0	30.5	- 5.6	460.5
225-226	189 30	009 40	189 35	+ 25 05	21.9	19.8	+ 9.3	454.9
226-227	107 30	287 00	107 15	+ 32 45	33.5	33.2	+ 21.4	464.2
227-228	056 40		056 40	+ 31 00	16.0	13.7	+ 8.2	485.6
228 ⊕								✓493.8
226-229	205 30	024 40	205 05	+ 0 20	44.2	44.2	+ 0.3	464.2
229-230	215 30	035 00	215 15	+ 18 30	34.6	32.8	+ 11.0	464.5
230								475.5

Co-ords Bk 3 p21 ~~EBBOR GORGE. to Gully Cave.~~ May 1st 1969

230-231	231 00	050 20	230 40	+ 0 10	16.1	16.1	+ 0.0	475.5
231-232	184 30	004 00	184 15	- 3 35	24.8	24.3	- 1.5	475.5
232-233	181 40	001 10	181 25	+ 15 00	4.6	4.4	+ 1.2	474.0
233-234	167 30		167 30	+ 35 40	5.7	4.6	+ 3.3	475.2
234 ⊕								✓478.5

Co-ords Bk 2 p71 ~~RESERVOIR HOLE~~ Concrete Shaft. May 16th 1969

464-465				- 90 00	10.5	—	- 10.5	306.6
465-466				+ 90 00	2.8	—	+ 2.8	296.1
466-467	273 20		273 20	- 56 30	16.1	8.9	- 13.4	298.9
467-468		155 30	335 30	- 31 30	14.7	12.5	- 7.7	285.5
468-469	309 50		309 50	- 46 00	15.6	10.8	- 11.2	277.8
469-470		146 30	326 30	+ 13 00	9.4	9.2	+ 2.1	266.6
470-471	342 40		342 40	- 4 30	5.3	5.3	- 0.4	268.7
471 ⊕								✓268.3

Co-ords Bk 2 p71-73 ~~RESERVOIR HOLE~~ To Pulsation Aven & the chain. Oct. 15 1969

471-472		109 20	289 20	- 27 00	7.0	6.2	- 3.2	268.3
472-473	284 40		284 40	+ 0 30	10.4	10.4	+ 0.1	265.1
473-474		081 20	261 20	- 8 30	20.2	20.0	- 3.0	265.2
474-475	257 00		257 00	- 25 45	12.8	11.7	- 5.2	262.2
475-476		349 30	169 30	- 30 20	23.5	20.3	- 11.9	257.0
476-477	216 40		216 40	- 28 00	25.3	22.3	- 11.9	245.1
477-478		014 50	194 50	- 12 40	32.6	31.8	- 7.1	233.2
478-479	186 50		186 50	- 16 50	40.5	40.7	- 12.3	226.1
479-480		358 10	178 10	- 12 00	40.5	39.6	- 8.4	213.8
480-481	264 20		264 20	- 16 20	24.6	23.6	- 6.9	205.4
481-482		009 30	189 30	- 05 15	24.3	24.2	- 2.2	198.5
482-483	142 50		142 50	+ 12 30	24.2	23.6	+ 5.2	196.3
483 ⊕	Drill mark 5' up on E wall, below Moonmilk Aven, 4' back from foot of end climb.							✓201.5
482-484	221 40		221 40	- 37 30	20.3	16.1	- 12.4	196.3
484-485		007 00	187 00	- 20 30	18.3	17.1	- 6.4	183.9
485-486	219 40		219 40	- 14 40	17.0	16.4	- 4.3	177.5
486 Δ	Centre of head of upper bolt holding chain.							✓173.2

Notes

Grade 6 (compass, (F+B), tripod, Abney, Fibron)

Variation $8^{\circ}10'W$ (new compass)

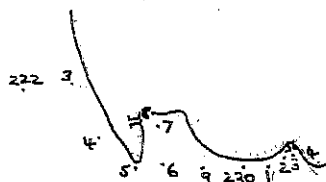
p. 59 Rabbit Hole

crossing scree slope
nail in ash branch

10' from foot of cliff

hazel trunk (nail)

nail in hazel trunk

Windy Hole
24.4.1969

Windy Hole. Shallow drillmark facing S & up, on rock knob in top W. corner of S. entrance, 3' up.

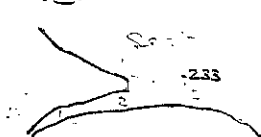
see above

~~nail in ash trunk.~~

nail in ash trunk.

Grade 6 (as above).

as above.

Gully Cave
1.5.1969Variation $8^{\circ}00'W$ (my new compass)

drillmark in fallen ash trunk.

6' in front of Gully Cave entrance.

Gully Cave $\oplus$, in blunt nose of cliff facing N, 6' up, 8' SW of cave entrance.

George Brown.

Grade 6 (compass, tripod, Abney, Fibron)

Variation $8^{\circ}10'W$ (m.n.c.)

p. 61

7, 2, 8, 2, 4.

2, 2, 5, 1, 6. On boulder slope 2' before arch.

20, 2, 5, 1 2' over tip wall.

2, 5, 1, 5, 4, 7. Foot of steps, by grotto.

3 (5 in arch), 2, 5, 1, 5.

Drillmark on E wall 4' up, 2' below roof. Cave continues 25', c. 312°

Richard, Peter Field, Howard.

Grade 6 (c, t, A, F)

Variation $8^{\circ}10'W$ (m.n.c.)

see above

2, 2, 3, 2.

2, 2, 0, 2.

1, 3, 4, 6B. (boulders)

2, 1, 1. 475 $\rightarrow$ end: 15' at 340°

2, 2B, 3, 17.

8, 1B, 7, 6.

4, 3B, 9, 5 (15P).

5 (20A), 3B, 8, 8.

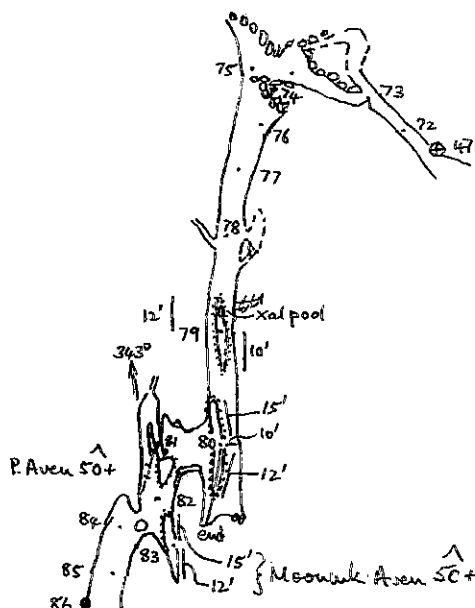
5 (30A), 3B, 1. 480 $\rightarrow$ end: 35' at 160°

3, 3, 1, 2.

6, 2B, 8, 7.

3, 2B, 10, 6.

4, 2B (6B), 5, 9.



Sta Co-ords	F.S.	B.S.	Bearing	F.Chino	Dist.	Horiz	Vert	Alt	Alt ^c
P-73	RESERVOIR HOLE		Inkwell's Passage.		Oct. 17th 1969				
486-487	126 00	006 50	186 50	-29 00	23.7	20.7	- 11.5	173.2	
487-488	126 00	126 00	- 1 50	17.7	17.7	- 0.6	161.7	161.1	
488 Δ	Candle 1" high on top of larger stalagmite in middle of entrance to Potter's Heaven								
487-489	197 30	197 30	- 14 30	20.9	20.2	- 5.2	161.7		
489-490	355 00	175 00	- 22 30	14.8	13.7	- 5.7	156.5		
490-491	237 40	237 40	- 37 10	8.4	6.7	- 5.1	150.8		
491-492	031 20	211 20	- 20 00	14.9	14.0	- 5.1	145.7		
492-493	158 30	158 30	- 10 30	17.3	17.0	- 3.2	140.6		
493-494	011 40	191 40	- 27 20	11.8	10.0	- 5.2	137.4		
494-495	160 30	160 30	- 12 45	38.2	37.3	- 8.4	132.2		
495 $\oplus$	Drillmark at bottom of S. end of small aven: ^{167' + 35' passages} _{Total to date 1,208'}							$\checkmark$ 123.8	

Co-ords Bk 2 p 75 CHEDDAR GORGE — B.W.W. reservoir

February 10th 1970

P-496	140 00	320 00	+ 1 40	4.6		+			
496-497	009 00	009 00	- 15 15	99.0		-			
497-498	030 40	030 40	+ 5 00	13.7		+			
498 Δ									

Co-ords Bk 2 p 75 RESERVOIR HOLE Potter's Heaven Feb 27th 1970

488-499	142 10	322 10	+ 13 15	5.0	4.9	+	1.1	161.1	
499-500	138 10	138 10	- 4 40	17.9	17.8	-	1.5	162.2	
500-501	345 10	165 10	- 16 10	40.3	38.7	-	11.2	160.7	
501-502	159 00	159 00	- 8 40	11.8	11.7	-	1.8	149.5	
502-503	046 10	226 10	- 26 30	28.7	25.7	-	12.8	147.7	
503-504	202 55	202 55	- 19 15	15.8	14.9	-	5.2	134.9	
504-505	356 30	176 30	- 16 30	16.7	16.0	-	4.7	129.7	
505-506	193 00	193 00	- 14 50	10.9	10.5	-	2.8	125.0	
506 Δ				^{127'} Total to date 1257'				$\checkmark$ 122.2	

Co-ords Bk 2 p 75 RESERVOIR HOLE Topless Aven March 17th 1970

481-507	264 40	084 40	+ 18 10	24.0	22.8	+	7.5	198.5	
507-508	147 50	147 50	+ 3 50	33.1	33.0	+	2.2	206.0	
508-509	292 00	112 00	+ 56 45	7.6	4.2	+	6.4	208.2	
509-510	159 10	159 10	+ 28 00	5.2	4.6	+	2.4	214.6	
510-511	340 00	160 00	+ 33 50	65.0	54.0	+	36.2	217.0	
511-512	301 20	301 20	+ 2 45	5.5	5.5	+	0.3	253.2	
512 Δ								253.5	
511-513	132 20	132 20	+ 6 20	21.5	21.4	+	2.4	253.2	
513-514	020 20	200 20	+ 15 30	6.0	5.8	+	1.6	255.6	
514-515	180 00	180 00	- 13 00	33.6	32.7	-	7.6	257.2	
515				^{136'} Total to date 1,403'				$\checkmark$ 249.6	

LIONEL'S HOLE		Entrance to Boulder Ch.		June 16 th 1970				
1-2	074 00	254 00	+ 5 30	1.6	1.6	+ 0.2	450.0	442.0
2-3	354 30	354 30	- 26 30	15.4	13.8	- 6.9	450.2	442.2
3-4	142 30	322 30	- 34 45	33.9	27.9	- 19.3	443.3	435.3
4-5	200 30	200 30	- 3 10	9.2	9.2	- 5.1	424.0	416.0

Notes

Richard, Alan T.

Grade 6 (c.t. A.F.)

Variation $8^{\circ}10'W$ (m.n.c.)

1, 5B, 10, 0.

4, 2B, /, 9.

1, 1B, 6, 2.

2, 3B, 6, /.

4, 1, 3, 5.

3, 2, 3, 5.

1, 2, 6, /.

0.5, 2, 1, 3.

0(2A), 2, 1, 5. (looking on). Passag.

White Spot entrance, p. 1.

ground level

Bottom outside corner of thin stone, third up on reservoir corner, 1.4' above road level.

Richard, Alan

Grade 6 (c.t. A.F.)

Variation $8^{\circ}00'W$ (m.n.c.)

2, 0.5, 3, 2.

1, 2, 2, 00.

1, 0.5, -, 4.

1, 2, 1, 2.

-, 4, 3, 3. 2' beyond lip

2, 3, 2, 3.

3, 2, 2, 4.

1, 2.5, 5, 5.

-, 1.5. Point of short smoked stalactite on roof pendant in centre of passage.

Will, Frank R.

Grade 6 (c.t. A.F.)

Variation $8^{\circ}10'W$ (m.n.c.)

p. 63

0.5, 2.5, 4, 2

50, 9, 2.5, 2.5 mid-air over dig

50, 0, 2, 3 boulders

9, 3, 3, 6 boulders, edge of grotto

Tip of embedded chain link (2 loose links) holding rope.

7, 3, 5, 7

7, 4, 8, 3

1, 1, 2, 5. Too-tight 3' further on.

Frank R.

Grade 6 (c.t. A.F.)

Variation $8^{\circ}00'W$ (m.n.c.)

Drillmark on face just east of entrance, 2' up. 5000.0 5000.0

1' outside entrance, 2' up. 4998.5 4999.4

1.5, 5, 9, 2. 1' beyond lip (breakthrough point).

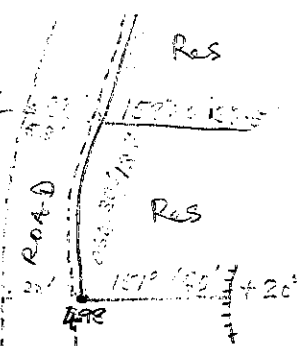
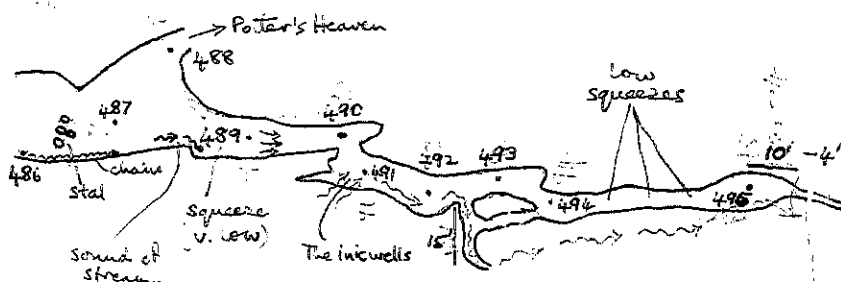
4995.3 5012.8

3, 1, 12, 5 At entrance to crevice.

4975.5 5032.3

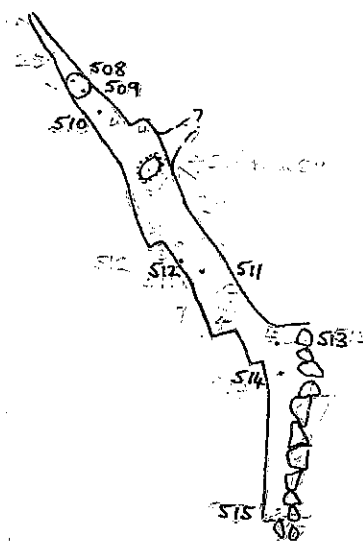
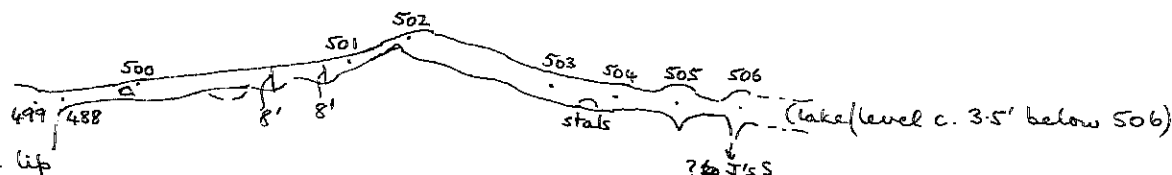
E

N



ible 10' further, dropping steadily, floor liquid mud.

(c.t. A.F.)

Variation $7^{\circ}50'W$ (m.n.c.)

by computer!

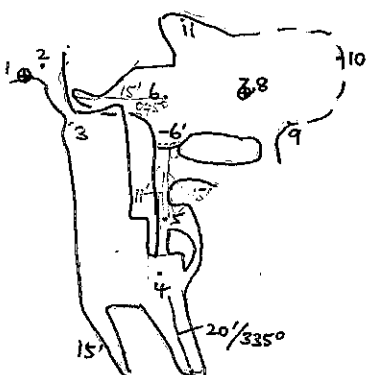
Sta	F.S.	B.S.	Bearing	F.Chino	Dist	Horiz	Vert	E	N	Alt	Alt C
5-6		028 00	203 00	- 22 00	26.9	24.9	-10.1	4973.5	5023.3	423.5	415.5
6-7	292 40		292 40	- 34 40	16.6	13.7	-9.4	4967.0	4999.2	413.4	405.4
7-8				+ 90 00	2.9		+ 2.9	4953.8	5002.7	403.9	395.9
⊕ 8								4953.8	5002.7	403.8	398.8
7-9	310 00		310 00		9.5		9 =	4945.8	5007.7		
7-10	235 00		235 00		15.0		10 =	4942.8	4992.4		
7-11	170 00		170 00		21.0		11 =	4960.3	4982.7		

LIONEL'S HOLE					Boulder Chamber to Traverse			June 24 th 1970			
⊕ 8-12				- 90 00	2.7	0.0	- 2.7	4953.8	5002.7	406.8	398.8
12-13	174 30	354 30	- 21 15		21.8	20.3	- 7.9	4953.8	5002.7	404.1	396.1
13-14	329 40	329 40	- 27 10		11.0	9.8	- 5.0	4949.0	5022.4	396.2	388.2
14-15	100 50	280 50	+ 6 30		12.1	12.0	+ 1.4	4942.9	5030.1	391.2	383.2
15-16	249 10	249 10	- 22 40		2.8	2.6	- 1.1	4930.9	5030.7	392.5	384.5
16-17	044 30	224 30	- 43 20		6.1	4.4	- 4.2	4928.6	5029.4	391.5	383.5
17-18	044 00	044 00	- 4 30		2.3	2.3	- 0.2	4926.0	5025.8	387.3	379.3
18 ⊕								4927.4	5027.7	387.1	379.1
⊕ 8-19			- 90 00		2.8	0.0	- 2.8	4953.8	5002.7	406.8	398.8
19-20	057	237 00	- 36		12.8	10.4	- 7.5	4953.8	5002.7		
20-21	201	201 00	- 59		16.4	8.4	- 14.1	4946.0	4995.9	404.0	396.0
21-22	080	260 00	- 3		9.2	9.2	- 0.5	4944.1	4987.6	396.5	388.5
22-23	275	275 00	+ 16		18.0	17.3	+ 5.0	4935.4	4984.8	382.4	374.4
23								4918.1	4983.8	381.9	373.9

LIONEL'S HOLE					East Low Labyrinth, Traverse			June 30 th 1970			
⊕ 18-24	042	222 00	- 34		15.4			4927.4	5027.7	387.1	379.1
24-25	208	208 00	+ 1		6.2			4920.3	5017.1	378.5	370.5
25-26	146 30	326 30	- 17		5.4			4918.2	5011.2	378.6	370.6
26-27	336	336 00	- 61		9.1			4914.8	5015.1	377.0	369.0
27-28			- 90		6.6			4912.4	5018.8	369.1	361.1
28-29	064	244 00	- 18		5.9			4912.4	5018.8	362.5	354.5
29-30	333	333 00	- 74 30		22.8			4907.8	5015.6	360.6	352.6
30					71 + 350'			4904.3	5020.6	338.7	330.7
⊕ 18-31	135 10	315 10	- 35 30		22.6			4927.4	5027.7	387.1	379.1
31-32	268 10	268 10	- 26 40		4.6			4912.7	5038.7	370.0	366.0
32-33	080 00	260 00	+ 30 40		12.1			4908.6	5038.0	371.9	363.9
33-34	289 40	289 40	+ 4 00		31.4			4898.7	5034.7	370.1	370.1
34 ⊕								4868.0	5040.9	380.3	372.3

LIONEL'S HOLE					West Low Labyrinth, Far Traverse			July 7 th 1970			
⊕ 34-35	268 00	088 00	+ 7 00		2.5			4868.0	5040.9	380.3	372.3
35-36	256 00	256 00	- 12 30		11.5			4870.4	5041.3	380.6	372.6
36-37	022 00	202 00	- 1 30		6.7			4860.0	5037.1	378.1	370.1
37-38			- 90 00		9.9			4858.4	5030.6	377.9	369.9
38-39	338 30	158 30	- 31 30		10.0			4858.4	5030.6	368.0	360.0
39-40	206 00	206 00	- 38 30		9.1			4862.7	5023.2	362.8	354.8
40-41	231 00	051 00	- 59 00		6.3			4860.5	5016.4	357.2	349.2
41-42	025 00	025 00	- 54 30		11.3			4862.7	5018.8	351.8	343.8
42-43	195 00	195 00	- 36 00		8.6			4864.6	5025.1	342.6	334.6
43 ⊕								4863.8	5018.2	337.5	329.5

Total 1100' + 65' + 1350' = 2515'



1, 2.5, 2, 3.5.

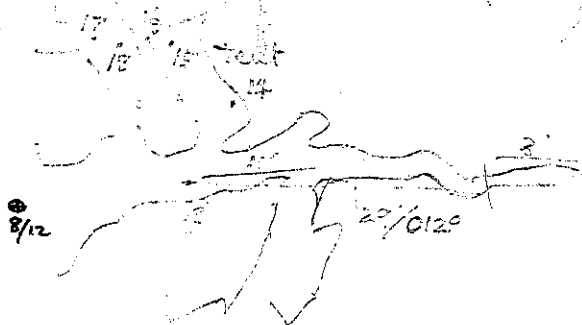
2, 3, 20, 00

on boulder

Drillmark in roof step facing E, 3' up.

Frank, Brian?

Variation 8°10' W (m.u.c.)



3, 2, 4, 3

4, 0.5, 4, 1

1.5, 2, 2, 2

3, 3, 5, 0

4, 5, 00, 20

Drillmark on N. wall, 5' up below chink into tent.

Grade 5 (c.A.F.)

1, 2(R), 3, 1

2, 1, 3, 5

Frank, Will

Grade 5 (c.A.F.)

Variation 8°20' W (m.u.c.)

1, 3, 3, 1

3, 2, 1, 3

3, 2, 4, 3

1, 5, 5, 1

3, 2, 1, 1

Bottom of cup-sized circular depression in solid rock, 1' above pebble floor. by 3" bedding plane dropping c. 10' after.

1, 3, 3, 1

2, 1, 8, 5

1, 3, 3, 3

2, 2, 5, 8

Grade 6 (c.t.A.F.)

Drillmark on upper surface of giant block, at S. edge

Frank, Will

Grade 5 (c.A.F.)

Variation 8°20' W (m.u.c.)

2, 1, 3, 5

2, 1, 1, 1

1, 1, 4, 4

10, 2, 2, 5

10, 2, 10, 2

3, 4, 8, 10

On S. wall at top of final chimney 8' down to floor of Alan's sand dip.

Sta, FS, B.S., Bearing, F.Chino, Dist, E True, N True, Alt, Act C
 Swilson's Hole - Wright's Aven to Cowch Aven. July 19th 1970

376-377		307	127	- 45	25.0	9996.4	9,355.1	422.5
377-378	119		119	- 25	10.4	10,011.9	9,346.5	404.8
378-379		258	078	- 7	30.0	10,020.7	9,343.2	400.4
379-380		224	044	- 8	4.2	10,048.7	9,353.5	396.8
380-381	145		145	- 3	4.4	10,051.1	9,356.8	396.2
381-382		230	050	+ 11	5.7	10,054.1	9,353.6	395.9
382-383	117		117	- 33	6.8	10,057.9	9,357.8	397.0
383-384		214	034	- 8	8.0	10,063.3	9,355.9	393.3
384-385	116		116	- 17	11.0	10,066.7	9,363.1	392.2
385-386	077		077	- 11 feet	18.0	10,076.7	9,359.9	389.0
386						10,090.0	9,365.0	378.0
385-387	178		178	Level	12.0			389.0
387								389.0
385-388	062		062	+ 10 feet	32.0			389.0
388								399.0

LIONEL'S HOLE Levelling to entrance from East Twin Swallet
 (11 legs. Taking the bottom of the concrete beam above the lower entrance
 Lionel's Hole entrance drillmark, station 1, is 442.0' O.D., by computer

RESERVOIR HOLE Ragbolt Ledge October 7 th 1970								
Δ								
512-516		305 00	125 00	- 14 00	3.4	7,403.2	6,608.4	253.5
516-517	348 00		348 00	+ 25 40	44.7	7406.1	6,606.9	252.7
517-518		198 00	018 00	+ 33 20	11.7	7393.0	6,644.9	272.0
518-519	355 00		355 00	+ 10 20	9.7	7394.9	6,654.5	278.5
519-520				+ 90 00	21.9	7392.9	6,663.9	280.2
520-521		173 00	353 00	+ 2 00	5.3	7392.9	6,663.9	302.1
521-522	258 00		258 00	- 14 00	5.9	7391.6	6,669.0	302.3
522-523	200 00		200 00	- 10 30	11.9	7386.2	6,667.2	300.9
523								

107' + 72' passage = 179'
 Total Res. H.L. = 1693. + 187383.6 = 187383.6
 107' + 72' passage = 179'
 Total Res. H.L. = 1493 + 182 = 1675'

NORTH HILL SWALLET to Rumble Pitch June 20 th 1971								
⊙								
29-30	116 00		116 00	- 19 00	10.6	1065.7	1028.6	748.8
30-31	094 00		094 00	- 10 30	8.9	1075.2	1025.5	745.3
31-32		005 00	185 00	+ 35 00	1.8	1084.0	1026.2	743.7
32-33	136 00		136 00	- 5 30	14.0	1084.0	1024.7	744.8
33-34	139 00		139 00	- 36 00	9.8	1095.1	1016.1	743.4
34-35		341 00	161 00	+ 3 00	5.2	1101.1	1011.0	737.7
35-36		351 00	171 00	- 37 00	12.8	1103.4	1006.3	737.9
36-37		316 00	136 00	- 27 00	7.9	1106.4	996.6	730.2
37-38	210 00		210 00	- 17 30	12.8	1112.0	992.3	726.6
38-39		314 30	134 30	- 4 40	15.0	1107.5	980.9	722.8
39-40		306 00	126 00	+ 3 30	2.6	1119.5	972.1	721.6
40-41	211 00		211 00	- 20 00	5.7	1121.8	970.9	721.7
41-42		343 30	163 30	- 50 20	26.0	1119.7	965.9	719.8
42-43	013 00		013 00	+ 18 30	3.6	1126.6	950.8	699.8
43 ⊕						1126.9	954.2	700.9

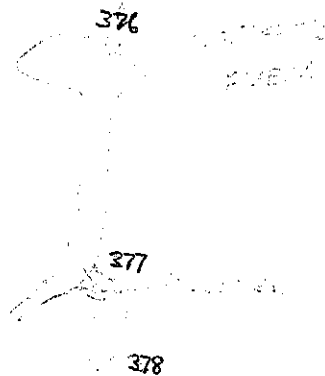
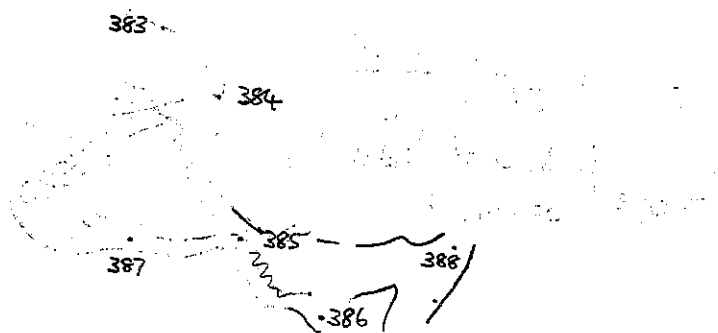
Notes

Fred Davies, Ray Mansfield

Grade 4 (c.A.F.)

Variation 8°W (m.n.c.)

Bottom of Wright's Aven



Top of Cowell Aven.



August 27 1970 Jim

to be 466.5' O.D., according to the 1969 BEC survey of East Twin, the

Frank, Alan

Grade 5 (c.A.F.)

Variation 7°40'W (m.n.c.)

p. 65

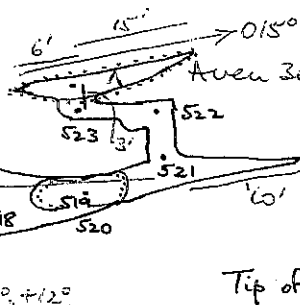
9, 2, 10, 5.

21, 0, 1, 1.

4, 1, 3, 0.

0.5, 2, 2, 1.

0, 2, 3, 1.



On small stalagmite under big stalactite.

On floor at foot of 20' climb

Smaller of 2 stalagmites by roof below

Tip of infant stalactite in roof at bend.

On small stalagmite under low roof

James, Fred

Grade 4-5 (c.A.F.)

Variation 8°10'W (m.n.c.)

2, 2, 1, 2

p. 55.

2, 1, 3, 0 Start of Board Crawl.

3, 0.3, 0, 1, Marcus' Aven

2, 1, 2, 1.

18, 0, 5, 2. Floor of The Aven. Passage off for 4' at c.090 map.

2, 5, 2, 1.

1, 8, 2.5, 1. Top of rift (drop).

1, 2, 2, 1. In The Rift

5, 2, 2 to choke, ∞. The Corner.

1, 3, ∞, 0 Bend in crawl.

1, 1, 2, 1.

1, 2, 1, ∞. Below crowbar.

Head of Rumble

12, 3 (ledge), 10, 2. 4' above bottom of Rumble, 12' from foot of waterfall, all in line.

Drillmark on rock face, facing S, 6' above floor of Rumble, directly over Plunk.

STA	FS	BS	Beang	FC	Dist	E _{true}	N _{true}	Alt	Alt ^c
NORTH HILL SWALLET Plank Pitch to Crossroad June 27									
43-44		096 00	270 00	-55 00	4.6	1126.9	954.2	700.9	
44-45	103 00		103 00	-69 00	17.6	1124.3	953.8	697.1	
45-46		029 00	209 00	-14 00	9.2	1130.6	953.3	680.7	
46-47	124 30		124 30	-13 00	20.5	1127.5	945.0	678.5	
47-48	135 30		135 30	-10 00	12.4	1145.4	936.2	673.9	
48-49		110 00	290 00	+36 00	0.8	1155.2	928.8	671.7	
49-50	153 00		153 00	-16 00	13.3	1154.5	929.0	672.2	
50-51	140 30		140 30	-9 30	14.1	1161.9	918.6	668.5	
51-52		265 00	085 00	+61 00	4.8	1172.3	909.3	666.2	
52-53	175 00		175 00	-8 30	2.3	1174.5	909.8	670.4	
53-54		306 00	126 00	-19 40	16.9	1175.1	907.6	670.0	668.6
54-55	110 00		110 00	-25 10	9.2 (P)	1189.2	900.2	664.4	
55-56		308 00	128 00	-15 45	14.5	1197.4	898.6	660.4	
56-57	277 00		277 00	-46 00	1.5	1209.5	891.7	656.5	
57 Δ						1208.5	891.7	655.4	

NORTH HILL SWALLET The Master's Cave Sept 12 th									
57-58		188 00	003 00	+18 10	18.8	1208.5	891.7	655.4	
58-59	011 00		011 00	+43 30	17.9	1206.9	909.5	661.3	
59-60		138 00	318 00	+38 20	26.7	1207.5	922.5	673.6	
60-61	319 00		319 00	+27 30	11.7	1191.5	935.9	690.1	
61 ○						1183.6	942.7	695.5	694.1
57-62		230 00	050 00	-10 00	2.6	1208.5	891.7	655.4	
62-63	146 00		146 00	-26 30	17.6	1210.2	893.6	654.9	
63-64		276 00	096 00	-33 40	12.4	1220.8	881.9	647.1	
64-65	140 00		140 00	-12 00	23.1	1231.1	882.3	640.2	
65-66		172 00	352 00	-19 40	8.1	1247.9	867.3	635.4	
66-67	043 00		043 00	-1 00	8.6	1245.8	874.6	632.7	
67-68		301 00	121 00	-9 40	18.3	1250.7	881.6	632.5	
68-69	159 00		159 00	-10 30	9.9	1267.3	874.6	629.5	
69-70		318 00	138 00	-18 20	22.4	1272.1	866.1	627.7	
70-71	174 00		174 00	-27 00	24.7	1288.4	852.5	620.6	
71-72		110 00	290 00	+0.4'	1.0	1293.8	831.2	609.4	
72 ○						1292.9	831.4	609.8	608.4

RHINO RIFT From the bottom to the top of First Pitch Sept 26 1971									
1-2	165 00		165 00	+56 00	21.9	5000.0	5000.0	241.0	
2-3		233 00	053 00	+21 15	15.6	5004.7	4988.7	300.2	
3-4	096 00		096 00	+60 40	30.4	5015.1	4998.9	259.2	
4-5	104 00		104 00	+28 40	5.7	5029.9	4999.3	264.8	
5-6		178 00	358 00	+38 20	26.3	5034.9	4998.7	323.8	
6-7	003 00		003 00	+45 00	13.8	5031.5	5019.0	291.3	
7-8		352 00	172 00	+54 50	6.0	5030.7	5028.8	350.2	
8-9	356 00		356 00	+19 20	24.3	5031.7	5025.4	310.4	

Notes.

1971 James, Himself. Grade 4-5 (c, a, F) Var 8°30' (m.n.c.)

1, 1, 4, 4,

5, 2.5, 4.5, 4. Bottom of Plank,
candles won't burn.

3, 1, 3, 1. Corner at start of Steps Rift

1, 1, 2, 0. Davestop.

Start of small chamber

6, 1, 1, 1.

3, 1, 1.5, 1. Start of Mills bang passage

Beginning of main passage

8 (grotto), 4, 4, 3.

8, 5, 3, 0. Drillmark 5' up right wall on/
flowstone.

2, 3, 9, 3.

2.5, 7, 2, 0.5. narrow canyon

1, 10, ∞, 6.

Crossroads, top of only stalagmite on right wall, (2" high).

1971 James & the Master Grade 4-5 (c, a, F) Var 8°10' W (m.n.c.)

13, 2, 1, 2. 2' to boulder 6' thick, 5' to roof.

8, 3, 3, 0. By slickensides in E wall (horiz)

3, 3, 1, 3.

1, 1.5, 0, 3 Drillmark 10' back from squeeze, on W wall 1' below roof on projecting corner of rock.

2, 9, 2, 5

2, 8, 1, 2

2, 3, 1, 2 Strike passage, S 45° W

2.5, 3, 1, 3 Hairpin meanders. 8' before 65 a tributary comes in from W, 9' long, sloping up, + heavy drip enters opposite down tube.

3, 3, 2, 2

0, 3, 0, 4 (alcove)

3, 3, 1, 2

1.5, 4.5, 1, 1 Pothole at 14'

2, 4, 1, 2

1, 2, 0, 3.5

0, 3, 2, 2.

Drillmark in centre of roof 6' after sharp bend to right. Passage continues at 200° changing to 240° after 13', further 12' to end on gravel crawl. End 5' lower than 72

Fred, Tim R, Glyn Bolt, Greg.

Grade 5 (c, a, F) Var 7°30' W (m.n.c.)

80, 6, 4, 3

On boulder choke

60, 19, 10, 8 (+10' passage) Rawlbolt head above 15' drop

50, 2, 1, 6

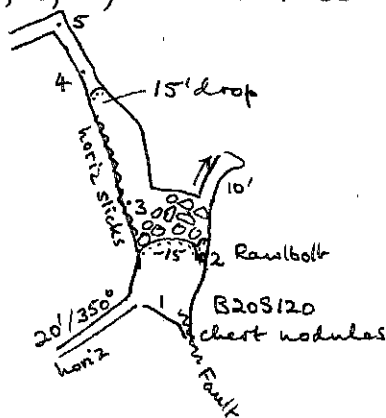
5, 2, -, 1.5 4' beyond tight drop in fault.

6, -, ∞, 3 Corner, fault goes on.

6, 3, 1, 1

10, 6, 5, 5 7 is 6' up tight drop.

6, 10, 1, 1 Passage continues 8' south from 8



STA	F.S.	B.S.	Bearing	F.C.	Dist.	E true	N true	Alt	Alt c
9-10	350 00	186 00	006 00	+42 00	21.6	5027.1	5047.9	333.1 392.1	
10-12	350 00	186 00	350 00	+54 50	15.5	5026.7	5063.9	347.6 406.6	
12-13	021 00	171 00	351 00	+35 00	30.5	5024.0	5072.5	360.2 419.2	
13-14	021 00	171 00	021 00	+67 30	85.8	5016.9	5096.4	377.7 436.7	
14-15	328 00	257 00	077 00	+35 56	29.0	5024.6	5128.3	457.0 516.0	
15-16	328 00	257 00	328 00	+73 00	45.9	5046.6	5136.6	474.0 533.0	
16-17	082 00	122 00	302 00	+43 10	35.4	5038.0	5146.9	517.9 576.9	
17-18	082 00	122 00	082 00	+73 00	88.5	5014.6	5157.6	542.1 601.1	
18-19	082 00	285 00	105 00	+40 40	11.6	5039.5	5164.5	626.7 685.7	
19						5048.2	5163.4	634.3 693.3	

RHINO RIFT Top of First Pitch to entrance Dec 12th 1971

19-20	253 00	073 00	+24 20	11.1	5048.2	5163.4	634.3 693.3
20-21	174 00	354 00	+37 00	18.3	5057.4	5167.7	638.9 697.9
21					5053.8	5181.9	649.9 708.9
20-22	277 00	097 00	+16 00	32.1	5057.4	5167.7	638.9 697.9
22-23	338 30	338 30	+33 20	7.6	5088.2	5168.2	647.7 706.7
23-24	177 00	357 00	+19 00	20.2	5085.1	5173.7	651.9 710.9
24-25	024 00	024 00	+32 00	11.6	5081.4	5192.5	658.5 717.5
25-26	216 00	036 00	+39 00	3.8	5084.2	5201.9	664.6 723.6
26-27	000 30	000 30	+16 00	25.5	5085.5	5204.6	667.0 726.0
27-28	177 50	357 50	+32 50	45.1	5082.3	5228.9	674.0 733.0
28-29	207 20	207 20	+2 40	3.1	5075.7	5266.2	698.5 757.5
29 A					5074.6	5263.2	698.6 757.6

FLOOD SWALLET NB. Metres surface to entrance

April 13 1972

1-2	113 00	293 00	+90 00	0.30m			243.83
2-3	277 00	277 00	+1 50	18.60			
3-4	108 00	288 00	-0 20	30.09			
4-5	264 40	264 40	+5 30	29.51			
5-6	078 20	258 20	+1 20	28.62			
6-7	351 10	351 10	+2 10	28.20			
7-8	343 50	343 45	-6 30	18.69	50590.00	55693.50	249.11
8-9	012 30	012 30	-9 00	29.11			
9-10	349 50	349 50	-2 20	13.91	573.07	737.59	242.44
10-11	342 30	342 22	-3 00	17.05			
11-12	162 15	162 15	-12 30	8.38			
12					50565.53	55776.05	239.17

FAIRY CAVE QUARRY

Windyhill Cave

April 19th 1972

1-2	125 0	305	100'	5000.0 4900.0	5000.0
2-3	293	293	214	4910.9	5045.4
3-4	232	232	258	4704.2	5100.8
4-5	345	165	32	4525.0	4915.2
5-6	195	195	14	4537.5	4885.7
6-7	105	105	10	4535.8	4871.8

Roof Floor left right
Station data

Notes

3, 2, 1, 2

2, 6, 3, 1

2, 3, 3, 2

50, 4, 1, 12

10, 6, - , 14

50, 6, 25, 7

30, 3, 6, 1

100, 3, 4, 12

10, 101, 5, 1

4, 2, 5, 1

Pitch 73' deep

Rawbolt at head of 3rd Pitch in W wall.

19' to ladder foot, 7' to 6' rift the opposite way.

chisel notch in top of projecting rock on S side.

Jeremy Hawkes

see above.

 $4, 1, (\infty), (4)$

~~Stretch~~. Squeeze
In groin below
Squeeze at 4'

6, 2, 5, 3

2,0,0,3

1, 2, 2, 3

7, 1, 2, 4

6, 2, 3, 3

3, 0, 1.5, 1.5

Gate at 7.7'

Grade 5 (C A F)

Mag Var $8^{\circ}00' W$ (m.n.c.)

A698.6 aft Pete Cousins, relative to A700 Top of Longwood Swallow blockhouse (in litt). Entrance, 4' up on wall facing NE. Vertical scratch intersects etched bedding plane: 

Grade 6 (C A F tripod) Mag var. $7^{\circ}40'$ W (m.n.c.) [TO GRID N]

800' contour crossing wall on 6" map

1 m over centre of limekiln chimney base ("Shaft" on 6" map)

Ry track (W side)

Dispersa

⊥ in pencil on west corner fence support post at ground level.

Terry, Rex, Bob

Grade 3 (compass, tape) Map var $8^{\circ}00$ to True N. (m.m.c.)

Entrance of Shatter Cave

Entrance at 20'

Roof Floor left right
Station data

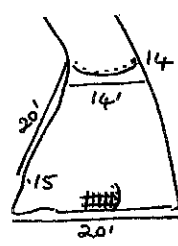
- 3, 2, 1, 2
- 2, 6, 3, 1
- 2, 3, 3, 2
- 50, 4, 1, 12
- 10, 6, -, 14
- 50, 6, 25, 7
- 30, 3, 6, 1
- 100, 3, 4, 12
- 10, 101, 5, 1
- 4, 2, 5, 1

Pitch 73' deep
Rawlbolt at head
19' to ladder f
chisel notch in

Notes



wall.



2 opposite way.

rock on S side.



Jeremy Hawkes

see above.

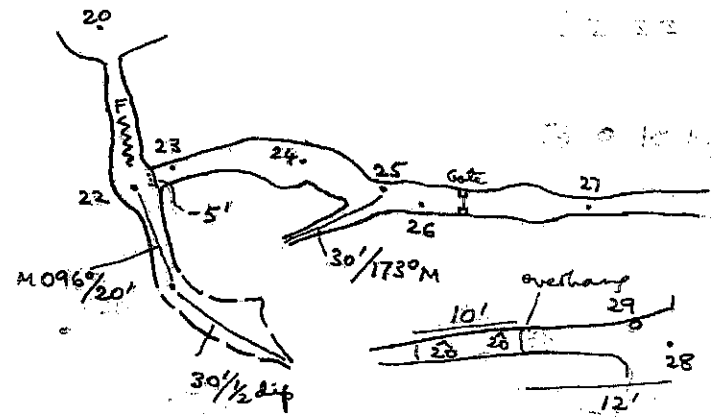
- 4, 1, (00), (4)
- 6, 2, 5, 3
- 2, 0, 0, 3
- 1, 2, 2, 3
- 7, 1, 2, 4
- 6, 2, 3, 3
- 3, 0, 15, 15

~~Butter~~. Squeeze at 10'
In grotto below stal curtain.
Squeeze at 4'.

Gate at 7.7'

C A F)

Map Var 8°00' W (m.n.c.)



A698.6 ofc Pete Cousins, relative to A700 Top of Longwood Swallowat blackhouse (in litt).
Entrance, 4' up on wall facing NE. Vertical scratch intersects etched bedding plane:

Grade 6 (C A F tripod) Map var. 7°40' W (m.n.c.) [To GRID N]
800' contour crossing wall on 6" map

1 m over centre of limekiln chimney base ("Shaft" on 6" map)

By track (W side)

~~Shutter~~

⊥ in pencil on west corner fence support post at ground

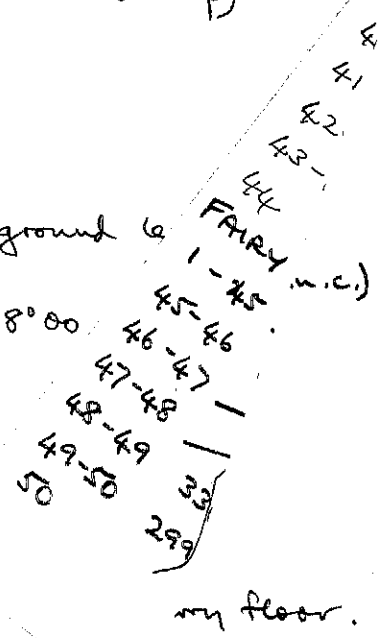
Terry, Rex, Bob

Grade 3 (compass, tape)

Map var 8°00'

Entrance of Shutter Cave

Entrance at 20'



STA	F.S.	R.S.	BEARING	F.C.	DIST	E	N	ALT	ALTC
7-8		350	170		23'	4545.7	4870.6		
8-9	115		115		26	4552.8	4848.8		
9-10		055	235		14	4577.7	4841.1		
10-11	160		160		26	4567.4	4831.6		
11-12		285	105		30	4579.6	4808.6		
12-13	110		110		51	4609.4	4804.9		
13-14		353	173		22	4659.3	4794.4		
14-15	188		188		35	4664.9	4773.1		
15-16		320	140		25	4665.0	4738.1		
16-17	165		165		33	4683.6	4721.4		
17-18		318	138		36	4696.5	4691.0		
18-19	145		145		14	4724.0	4667.9		
19-20		070	250		11	4733.6	4657.7		
20-21	194		194		34	4723.9	4652.5		
21-22		305	125		16	4720.3	4618.7		
22-23	185		185		14	4734.6	4611.4		
23-24		298	118		16	4735.3	4597.4		
24-25	185		185		33	4750.3	4592.0		
25-26		320	140		16	4752.0	4559.0		
26-27	235		235		21	4763.9	4548.3		
27-28		340	160		26	4748.6	4533.9		
28-29	200		200		34	4760.8	4511.0		
29-30		050	230		23	4753.7	4477.8		
30-31	175		175		11	4738.3	4460.7		
31-32		090	270		34	4740.8	4449.9		
32-33	295		295		15	4707.1	4445.2		
33-34		120	300		12	4692.8	4449.6		
34-35		070	250		6	4681.7	4454.0		
35-36		050	230		21	4676.4	4451.3		
36-37	157		157		61	4662.3	4435.7		
37-38		025	205		31	4693.8	4383.4		
38-39	255		255		18	4684.7	4353.7		
39-40	230		230		14	4668.1	4346.7		
40-41	270		270		7	4658.8	4336.3		
41-42	205		205		10	4651.8	4335.3		
42-43	140		140		20	4648.9	4325.8		
43-44		340	160		59	4663.8	4312.4		
44						4691.5	4260.3		

FAIRY CAVE QUARRY

1-45	172.30	352.30	17.5	5000.0	5000.0
45-46	293.00	293.00	70.5		
46-47	113.00	293.00	100.0		
47-48	122.00	302.00	100.0		
48-49	336.30	336.30	100.0		
49-50	299.00	299.00	60.0		
50					

4631.0 5208.4

April 22nd 1972

Strong draught in, scalloping out.

Cross rift up into chamber.

same chamber

Down to chamber end

Streamway

Helictite corner

chamber

Z Rift in streamway

Scalloping out

Draught in

up stal barrier, goes

small chamber

down to streamway.

Y Fork, streamway to right, goes up + straight on.

Grade 3 (compass, tape)

Var. $8^{\circ}00' W$ (m.m.c.)

Ent. of Shatter Cave. p70

Rift in joint trending 008° mag, L60 VR40 (ladder pitel), 8' above quarry floor.
bottom of rift is muddy boulder pile with pool.

STA	F.S.	B.S.	BEARING	F.C.	DIST	E	N	ALT	ALT ^c
48-51	263 00	080 00	260 00		100.0				
51-52	263 00	079 30	259 30		100.0				
52-53	263 00	079 30	263 00		51.0				
53						4500.1	5025.8		
52-54	247 00	079 30	247 00		64.0				
54						4494.5	5006.1		

Flood Swallet

surface survey

April 25th 1972

					METRES				
12-13	214 10	034 20	214 15	+ 3 00	21.55m	50565.53	55776.05	239.17	
13-14	270 30	089 50	270 10	- 13 45	22.03	555.84	755.82	240.30	
14-15	232 00	053 00	232 30	+ 9 30	23.48	534.62	753.09	235.06	
15-16	257 00	053 00	257 00	+ 13 15	7.02	518.24	736.72	238.94	
16						50511.84	55736.00	240.55	

FAIRY CAVE QUARRY

Hillwithy Cave

April 28 1972

53-55	133	313 00	8.0	4500.1	5025.8		
55-56	022	022 00	20.1	4493.5	5030.4		
56-57	123	303 00	31.1	4498.4	5049.9		
57-58	332	332 00	15.7	4470.2	5063.0		
58-59	207	027 00	18.9	4461.0	5075.7		
59-60	347	347 00	33.5	4467.1	5093.6		
60-61	142	322 00	15.8	4455.1	5124.9		
61-62	001	001 00	31.8	4443.8	5135.9		
62-63	010	010 00	15 (est)	4439.9	5167.4		
63-64	002	002 00	13.4	4440.4	5182.4		
64-65	250	070 00	56.1	4439.0	5195.7		
65-66	073	073 00	15.4	4488.6	5222.1		
66-67	252	072 00	29.1	4502.5	5228.6		
67-68	341	341 00	15.0	4528.7	5241.3		
68-69	105	285 00	11.0	4521.9	5254.7		
69-70	008	008 00	10.0	4510.9	5256.0		
70-71	210 est.	030 00	55 (est)	4510.9	5266.0		
71				4531.5	5317.0		

FLOOD SWALLET

Entrance to sump

May 24th 1972

					METRES				
12-17	302 10	122 10	+ 13 00	2.20	50565.53	55776.05	239.17		
17-18	106 00	106 00	- 30 15	4.57	567.47	775.14	239.66		
18-19	334 10	154 10	- 90 00	2.71	571.37	774.52	237.36		
19-20	150 40	150 40	- 21 30	3.35	571.37	774.52	234.65		
20-21	150 40	150 40	- 23 25	2.32	573.06	771.90	233.42		
21-22	265 30	085 30	- 90 00	2.57	574.32	770.19	232.50		
22-23	097 50	097 50	- 24 10	2.26	574.32	770.19	229.93		
23-24	152 40	097 50	- 10 00	8.82	576.34	770.60	229.01		
24-25	087 00	332 40	- 21 00	2.32	585.03	770.47	227.48		
25-26	289 20	087 00	- 34 15	3.31	583.80	772.26	226.64		
26-27	097 10	109 20	+ 4 30	6.49	586.50	772.74	224.78		
27-28	097 10	097 10	- 5 30	7.31	592.82	771.35	225.29		
28					50600.10	55771.33	224.59		

NOTES

p.71

Cave entrance 4' above quarry floor. Hillworthy Cave.

Entrance to descending tube 5' above quarry floor.

Grade 6 (C A F tripod)

Var 7°30' (m.n.c.) (GRID N)

p.70

centre of valley floor, ground level.

S.E. corner of ruined building or enclosure.

Tom Davies Grade 3 (compass, tape)

Var 8°00' W (m.n.c.)

See above. Entrance of "short" new cave

3, 1, 3, 1

6, 3, 3, 4

10, 0, 1, 3

10, 6, 5, 1 Gours on ORS pebbled-banks.

15, 3, 3, 3

15, 3, 2, 3 Muddy walls to 4' above floor; ORS pebbles

3, 0, 0.5, 1 Mud wriggle recently sumped, ^{ends at 10'; then 4' climb up.} Below massive stal blockage; flood-muddled stal 10' high

3 (20 ft), 3 (12 ft), 3, 2. 63 is 6' higher than 62. Clean walls

10, 4, 0, 3 Grotto, clean stal

4, 3, 6, 3 Muddy, iridescent films (oil?).

4, 6, 3, 2 On block

10, 3, 00, 15 [1, 10 looking back to 66] Chert Chamber

1, 2, 3, 1 8' lower than 67

Flat squeeze.

Long mud crawl with 2 mud pits 5' deep near end. Then turns 90° left & rises, getting larger & skinnier for 20', then bears right & smaller, not entered by us!

Tom Davies

Grade 6 (C, A, F, tripod)

Var 7°00' W (m.n.c., GRID N)

see above

2' above edge of pit

N edge of top concrete ring

FEET

00, 1, 2, 2 second step down

5, 2, 2, 10 4' back from lip

2, 8, -, - 3' above shotholes

10, 0, 2, 2 On steps

5, 3, 3, 2 Bottom of steps, entrance of Foul Crawl.

2, 3, 3, 5 Large shallow drillmark on stal corbel on S wall of half-way-house.

4, 3, 8, 4 Over second step up in half-way-house

5, 5, 1, 2 Floor of main passage

4, 3, 2, 1 Main passage by my seat

5, 2, 1, 3 Drillmark in ^E wall above spring, at old sump. Side rift starts 3.5m back towards 27.

117.0
212.8
VR 22.8 W
C 235°

STA	F.S.	R.S.	Bearing	F.C.	DIST	E	N	ALT	ACT ^c
Flood Swallet. Side passages in old cave June 21 1972									
24-29		146 00	326 00	-20 30	3.34	50585.03	55770.47	227.48	
29-30	322 30		322 30	+ 1 00	5.18	582.96	772.82	226.31	
30-31		139 00	319 00	+ 19 00	5.33	579.31	776.49	226.40	
31-32		147 00	327 00	+ 24 00	3.34	575.55	779.84	228.14	
32-33	282 30		282 30	+ 31 00	5.94	573.57	782.17	229.49	
33						50568.50	55782.63	232.55	
31-34		208 00	028 00	+ 0 30	3.19	575.55	779.84	228.14	
34-35	101 00		101 00	+ 9 00	2.13	576.67	782.83	228.16	
35-36	009 30		009 30	+ 6 20	5.25	578.77	782.69	228.50	
36-37		282 00	102 00	- 9 00	1.74	578.97	787.91	229.08	
37-38	046 00		046 00	- 2 00	3.04	580.68	787.77	228.80	
38-39	340 00		340 00	+ 5 00	7.50	582.58	790.14	228.70	
39						50579.15	55796.78	229.35	

Flood Swallet main passage to Inlet Chamber August 23 rd 1972									
28-40		073 00	253 00	- 0 30	1.15	50,600.10	55,771.33	224.59	
40-41	109 20		109 20	- 4 40	10.38	599.05	770.87	224.58	
41-42		314 50	134 50	- 4 10	6.03	609.14	768.61	223.74	
42-43	141 30		141 30	- 8 25	4.72	613.88	764.90	223.30	
43-44		342 30	162 30	- 18 40	1.26	617.19	761.62	222.61	
44-45	148 20		148 20	- 21 25	4.38	617.68	760.53	222.20	
45-46		354 20	174 20	+ 5 30	3.21	620.22	757.33	220.60	
46-47	229 45		229 45	- 3 10	6.20	620.91	754.21	220.91	
47-48		014 30	194 30	- 1 00	4.40	616.68	749.69	220.57	
48-49	120 10		120 10	+ 11 20	0.95	616.09	745.33	220.49	
49-50	111 00		111 00	+ 74 00	0.76	616.94	744.96	220.68	
50-51	036 00		036 00	+ 25 30	5.15	617.15	744.90	221.41	
51-52	025 00		025 00	+ 10 00	2.25	619.42	748.96	223.63	
52						50,620.11	55,751.06	224.02	

FLOOD SWALLET to Second Chamber Nov 29 th 1972									
50-53		104 00	284 00	- 47 00	1.28	50,617.15	55,744.90	221.41	
53-54	136 00		136 00	- 13 30	2.94	616.28	745.01	220.47	
54-55		312 00	132 00	+ 5 00	9.28	618.51	743.21	219.79	
55-56	124 30		124 30	- 1 00	4.60	626.08	737.90	220.60	
56-57		336 30	156 30	- 8 10	1.73	630.16	735.78	220.52	
57-58	137 00		137 00	- 12 40	4.27	631.03	734.31	220.27	
58-59		298 00	118 00	+ 1 20	7.45	634.22	731.63	219.33	
59-60	107 50		107 50	- 2 10	8.55	641.17	728.96	219.51	
60 A						50,649.56	55,727.35	219.18	

FLOOD SWALLET to SR4 Jan 14 1973									
60-61				- 90 00	1.59	50,649.56	55,727.35	219.18	
61-62		310 00	130 00	- 0 30	3.25	649.56	727.35	217.59	
62-63	111 30		111 30	- 15 15	7.58	652.29	725.58	217.56	
63-64		280 10	100 10	+ 1 00	2.89	659.37	723.75	215.57	
64-65	123 30		123 30	+ 19 35	1.76	662.25	723.59	215.62	
65 A						50,663.73	55,722.85	216.21	

Notes

Tom

Grade 5 (C, A, F)

Var 7°20' W (m.n.c., GRID N.)

See p. 72.

FEET

- 2, 2, 2, 2
 2, 1, 4, 1/2 Squeeze over boss at 2m, then 8' wide & 5' high
 1, 4, 2, 6 3' wide after 2m. Δ-Smoke mark on roof projection opposite side passage
 2, 2, 7, 5 Steep rock slope in chamber, which is 8' high 2m before 33.
 2, 1/2, 4, 5 Among boulders. Passage ^(low) turns half right & continues 3m ^{horiz} to wide ^{low} choke.
 see above
 3, 2, 1/2, 1/2 Corner, phreatic roof tube, both passages follow vert joints/minor faults.
 2, 3, 1/2, 1 Corner, 3' step up.
 1, 4, 1, 2 Corner + 4' drop, stal bridge at station level. Vert joint.
 3, 4, 2, 9 to sump Station 37 is tip of second longest stalactite.
 2, 4, 1, 1 Phreatic roof tubes
 1, 6, 1/2, 1 Stal blockage in high thin rfr, stream below in fine tailings.
 Will, Tom Grade 6 (C, A, F, tripod) Var. 7°15' W (m.n.c. GRID N)

see p. 72

METERS

- 1.5, .6, .9, .3 Dam at 2.8m, creep starts at 4.7m
 .9, .6, .3, .9
 2.7, .9, 1.2, 1.2 Chamber entrance.
 1.2, .9, .9, 1.8 Top of sharp rock.
 (6) 1.5, .9, 1.2 End of chamber.
 .6, .1, .1, .6
 .9, 1.2, .3, .3
 .9, .6, .6, 0
 .3, .56 (.49 to water), .3, 1.2

~~see above~~

- 1.5, 1.5, .9, .9 Drillmark 1.5m up on base of big stal column.
 3.0, .0, .3, .3 On Tip wall
 3.0, .0, .3, .3 Foot of flow, on tip. 3' under tip is connection mousehole.

Alan Clark Grade 6 (C, A, F, tripod)

Var 7°00' W (m.n.c. GRID N)

see above

Inlet chamber

- .6, .05, .3, .5 on floor in low point of ex-wriggle
 1, 1, .7, .8 2m beyond start of tip, 3-4m beyond removed boss
 .6, 1, .1, 1 by tip. 1.5m beyond start of "terminal" stal flow.
 .5, .6, .6, .8 end of tip.
 .8, 1, .5, 0. 1m beyond end of flow, .3m below old ooze floor. Aven 3m high is 1m beyond station.
 1.2, .7, 1.4, 1 Start of Second Chamber.
 0, 2, 1, 3. Smoked broken stal in roof just before downstep of 0.6m. End of chamber, which is 4m high and 4m wide in middle, with tight central aven to 7m high.

Tom, Bob

Grade 6 (Verschoyle transit, Fibron, tripod)

Var 7°00' W GRID N

see above

Mud bank LB of stream, 2' up.

- 1, 1, 1.2, 1.6 Tip on LB starts 2m before 62, ends 4m beyond 62.
 .6, .3, .9, .3 Trickle enters on LB 1m before 63.
 .9, .6, .9, .6
 0(.9), 1.5, 1.2, .6 Drillmark in middle of roof in niche facing up passage, in stal.

Sta	F.S.	B.S.	Bearing	F.C.	Dist	E	N	Alt	Alt ^C
Withyhill Cave East Passage.						February 2nd 1973			
44-72	152			152	+30°	17.0'	4691.5	4260.3	
72-73		008		188		4.2	4700.0	4248.3	
73-74	129			129		10.7	4700.0	4244.1	
74-75		348		168	-10°	16.6	4709.1	4238.5	
75-76	133			133	+20°	7.9	4714.6	4223.1	
76-77		327		147		8.6	4720.6	4218.8	
77-78	150			150		22.7	4726.2	4212.3	
78-79		318		138		8.1	4740.0	4194.2	
79-80	092			092		29.0	4746.2	4189.0	
80-81		272		092		9.5	4775.1	4191.8	
81-82	145			145		19.8	4784.5	4192.7	
82-83		322		142		10.2	4797.9	4178.1	
83-84	151			151		21.8	4805.2	4170.9	
84-85		335		155		43.0	4818.1	4153.4	
85-86	221			221	+20°	7.5	4841.2	4117.1	
86-87		335		155		6.2	4837.4	4111.3	
87-88	203			203		17.7	4840.7	4106.0	
88-89		021		201		14.2	4836.0	4089.0	
89-90	230			230		17.3	4832.6	4075.2	
90-91		139		319		7.5	4821.0	4062.4	
91-92	244			244		17.4	4815.3	4067.4	
92-93		348		168		18.0	4800.8	4057.8	
93							4806.8	4040.8	

Withyhill Cave West Passage						March 25th 1973			
44-94		085		265		9.5	4691.5	4260.3	
94-95	196			196		20.7	4682.4	4257.4	
95-96		017		197		10.8	4681.2	4236.8	
96-97	204			204		27.7	4680.3	4226.0	
97-98		061		241		5.6	4674.8	4198.9	
98-99	186			186		33.0	4670.6	4195.2	
99-100		082		262		11.0	4674.3	4162.4	
100-101	184			184		24.7	4664.0	4158.5	
101-102		335		155		3.4	4667.7	4124.1	
102-103	208			208		26.7	4669.8	4131.4	
103-104		326		146		3.8	4662.6	4105.7	
104-105	255			255		14.7	4665.4	4103.1	
105-106		118		298		5.3	4652.3	4096.3	
106-107	207			207		5.9	4647.2	4097.7	
107-108		063		243		21.7	4645.8	4092.0	
108-109	218			218	+20	10.9	4629.0	4078.2	
109-110		328		148		5.0	4624.6	4068.9	
110-111	266			266	-10	9.7	4628.1	4065.4	
111-112		348		168	-10	10.4	4619.0	4062.6	
112-113	178			178		10.8	4623.2	4053.3	
113-114		037		217		16.3	4625.9	4042.9	

NOTES

Bob Elliott & Wintaker

Grade 3 (compass, tape)

Var 7°30' E m.s.

p71 up boulder slope in rlv
 On boulder, start of small chamber
 In chamber
 Narrow bit after chamber

Grotto

Grotto 10' wide

3' wide 8' high, beyond is squeeze 1' wide but high

2' wide 10' high scalloping out.

White curtains near floor

Wet low corner

15' high 3' wide scalloping out

up into Pillar Chamber

Beside big pillar 10' high 15' wide

4' high 4' wide

Corner before decorated gallery

White carrots

Blasted squeeze

Bob Elliott, Terry Tooth.

Grade 3 (compass, tape)

Var 12°30' W (m.o.c.)

1,1,6,6

10,1,4,2

5,2,1,2 Strong indraught; scalloping out.

5,1,3,4

6,2,1,4 Start of pretty grotto.

10,1,20,3 Boulder chamber up on left.

4,2,4 (boulders), 3 Chamber goes on 10'

4,3,2,1

4,2,2,3

8,0,12,10 Bouldery corner

1,1,3,4 Scalloping out, draught in.

6,1,1,4

5,2,∞,6

4,2,3,8

10,5,15 (Snowy chamber), 3. Squeeze 3' on.

2,0,6,3

1,2,6,∞ Gorgeous white shark's fin stalactites

3,4,20,2

1,2,2,8

3,1,4,6 Scalloping out, draught in

Sta	F.S.	B.S.	Bearing	F.C.	Dist.	E	N	Alt	Attc
114-115	221		221		18.4	4619.1	4028.0		
115-116		078	258		18.9	4610.4	4011.9		
116-117	218		218		30.0	4593.2	4004.0		
117-118	240		240		50.0	4580.3	3976.9		
118						4543.4	3943.2		

WOOKEY HOLE CAVE			Charon's Chamber		July 28 1973				
				metres					
72-73		310 30	130 30	+ 3 30	11.45	100.0	100.0	100.0	
73-74	135 00		135 00	+ 16 40	10.20	109.53	93.69	100.70	
74-75		319 00	139 00	+ 44 45	4.32	117.23	87.68	103.62	
75-76	136 30		136 30	+ 28 50	9.68	119.51	85.62	106.67	
76-77		346 30	166 30	- 1 00	2.87	126.05	80.23	111.33	
77-78	180 30		180 30	- 21 10	4.74	127.06	77.54	111.28	
78-79		001 30	181 30	+ 43 50	3.59	127.56	73.15	109.57	
79						127.81	70.57	112.06	
72-A	319 00	138 00	319 00						

WOOKEY HOLE CAVE			New entrance to Wookey Nine		Aug 8 1973				
				metres					
80-81		167 30	347 30	- 36 00	7.19	500.00	500.00	100.00	- add 7.9m
81-82	031 00		031 00	- 29 30	2.05	498.04	505.48	95.77	
82-83		162 30	342 30	+ 14 50	12.08	498.76	507.11	94.76	
83-84	347 30		347 30	+ 4 30	2.77	493.89	507.72	97.86	
84-85		157 00	337 00	- 0 30	7.98	492.96	520.32	98.07	
85-86	338 00		338 00	- 22 45	9.02	488.95	527.22	98.01	
86-87		187 00	007 00	+ 10 30	4.21	484.90	534.48	94.52	
87-88	333 30		333 30	+ 15 30	9.60	484.89	538.62	95.28	
88-89		157 00	337 00	- 30 00	1.84	479.76	546.32	97.85	
89-90	330 00		330 00	- 52 20	11.02	478.96	547.70	96.93	
90-91		199 00	019 00	- 48 00	8.73	474.89	553.07	88.21	
91-92	312 00		312 00	- 10 20	8.04	476.09	558.78	81.72	
92						469.59	563.30	80.28	

WOOKEY HOLE CAVE			Wookey Nine and back		August 11 1973				
				metres					
92-93	open 310 00	prism 132 00	312 00	- 60 00 BC	28.05	469.59	563.30	80.28	- add 7.9m
93						458.06	571.22	55.97	
92-94		323 00	143 00	+ 8 00	2.20	469.59	563.30	80.28	
94-95	125 00		125 00	+ 9 30	4.97	471.12	561.75	80.59	
95-96		014 00	194 00	+ 47 10	10.33	475.47	559.48	81.41	
96-97	145 20		145 20	+ 49 20	12.18	474.67	552.51	88.98	
97-98		002 00	182 00	+ 13 10	1.25	480.00	546.62	98.22	
98-99	144 30		144 30	- 24 20	7.81	480.12	545.41	98.51	
99-100		020 00	200 00	+ 5 00	1.45	484.97	540.21	95.29	
100-101	180 00		180 00	- 9 20	5.00	484.66	538.80	95.41	
101-102		332 00	152 00	+ 30 40	5.76	485.30	533.90	94.60	
102-103	159 30		159 30	+ 11 00	3.38	488.18	529.87	97.54	
103-104		336 00	156 00	- 0 50	9.61	489.73	526.94	98.19	
104-105	169 30		169 30	- 19 40	7.86	494.76	518.75	98.05	
105-106		331 00	151 00	- 0 40	4.36	497.04	511.71	95.40	
106-107	229 00		229 00	+ 5 30	2.55	499.64	508.20	95.35	

Notes

- 2, 2, 3, 3 End of fine grotto
- 4, 3, 3, 8 Scallop out, draught in
- 2, 3, 7, 2 Boulder passage
- c. 10, 10, 10, 10 In rubble showing recent movement
- 5, 3, 3, 3 Approx end, passage seems blocked by collapse.
- Tom, Bob Grade 6 (Verschoyle, Fibron, Tripod) Var $7^{\circ}00' W$ True N.
 $\hat{A}$ 3.0 back from 73
- Metres
 5, 1, 1, 2 $\hat{A}$ 2.5 back from 74
- 2, 2, .5, .5 On stal'd rocks postbanged bit
- 5, 1, .8, .9 Joint on R at 2.7 4 deep 3 long, width 3. Joint on L at 5.7 4 deep 5 long, width 2
- 10 to hds, 0.5, 1.5, 2. Square end of chamber. Joint on L 3 long
- 2, .5, .5, .5
- 2.5, -, .4, .4
- 4, .8, .4, .3 End of rift 2.1 beyond 79: boulder, stal & earth in ~~E~~ narrow crack.
 A 4 fixed stud near Witch, near electric cables.
- Will, Brian Grade 5 (Compass, Abney, Fibron) Var $7^{\circ}10' W$ m.n.c. True
 Chipped dent in corner of rock on S side of ent shaft 1m below door.

Candle stuck on E wall of head of big pitch, by chalk circle.

Bob, Tom, Terry Grade 5 (Compass, Abney, Fibron) Var. $7^{\circ}30' W$ m.n.c. True N.

Head of stake stuck in sandbank, floor of Nine.

STA	FS	BS	Bearing	F.C.	Dist	E	N	Alt	Alt ^c
107-108	173 00	300 30	120 30	+ 23 10	1.25	497.95	506.30	95.59	
108- 109 80 A	173 00	300 30	173 00	+ 36 20	6.60	499.01	505.85	96.09	
						500.34	500.71	100.00	

WOOKEY HOLE CAVE

Raying Wookey 9

Ken White

93-109	111 00	300 30	120 30	+ 1 40	10.80	497.95	506.30	95.59	63.87
93-109									
93-110	131 00	300 30	120 30	+ 17 00	17.17	497.95	506.30	95.59	
110									
93-111	142 30	300 30	120 30	+ 11 40	10.56	497.95	506.30	95.59	
111									
93-112	156 30	300 30	120 30	+ 14 50	8.29	497.95	506.30	95.59	
112									
93-113	171 00	300 30	120 30	+ 17 20	5.78	497.95	506.30	95.59	
113									
93-114	311 30	300 30	120 30	+ 7 10	3.61	497.95	506.30	95.59	
114									
93-115	321 30	300 30	120 30	+ 9 50	6.28	497.95	506.30	95.59	
115									
93-116	040 30	300 30	120 30	- 27 10	5.87	497.95	506.30	95.59	
116									
93-117	092 00	300 30	120 30	- 11 30	9.07	497.95	506.30	95.59	
117									

WOOKEY HOLE CAVE

Up bypass to main pitch in Nine

August 19 1973

93-118	135 30	300 30	135 30	+ 32 40	19.97	457.89	570.87	95.59	
118-119	135 30	061 00	241 00	+ 54 30	4.15	471.14	560.52	95.59	
119-120	152 30	300 30	152 30	+ 0 10	1.57	469.20	559.09	95.59	
120-121	152 30	300 30	152 30	+ 90 00	4.53	470.10	557.80	95.59	
121-122	152 30	050 10	230 10	+ 17 30	1.80	470.10	557.80	95.59	
122-123	176 00	300 30	176 00	- 3 40	4.13	468.94	556.54	95.59	
123-124	157 00	300 30	157 00	+ 0 20	10.73	469.76	552.50	95.59	
124						475.21	543.25	95.59	
123-125	143 20	300 30	143 20	+ 1 20	7.42	469.76	552.50	95.59	
125						474.93	547.18	95.59	

MANOR FARM SWALLET

Entrance positioning; down to first pitch

October 5 1973

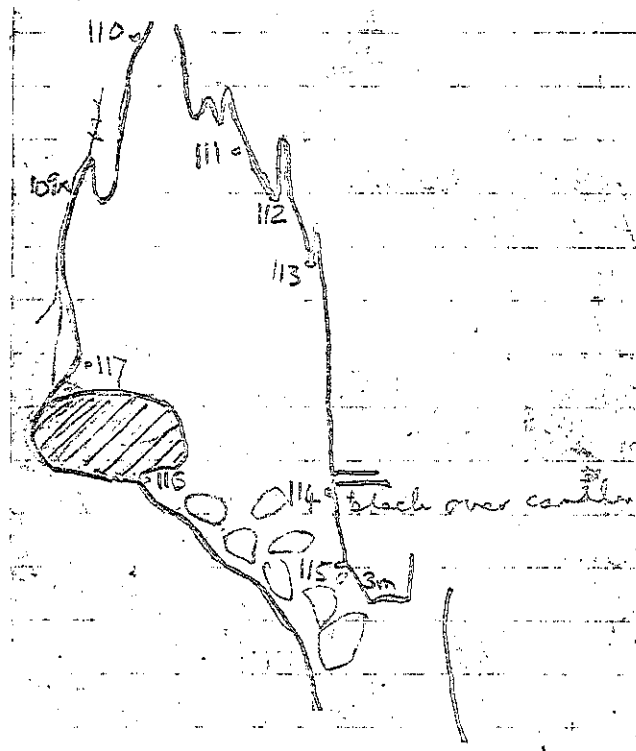
1-2	173 00	300 30	120 30	- 3 45	20.52m			243.83	
2-3	173 00	300 30	120 30	- 13 15	16.28			242.49	
3-4	173 00	300 30	120 30	- 8 40	17.13			239.76	
4-5	173 00	300 30	120 30	- 11 20	10.73			237.18	
5-6	173 00	029 30	209 30	- 0 40	12.50	49805.00	55644.00	235.06	
6-7	266 30	300 30	266 30	- 6 45	11.46	800.15	632.48	234.92	
7-8	173 00	300 30	120 30	- 90 00	15.24	788.95	630.47	233.57	
8-9	173 00	343 00	163 00	- 9 10	5.01	788.95	630.47	218.33	
9-10	186 00	300 30	186 00	- 28 30	4.63	790.93	625.94	217.53	
10-11	173 00	070 30	250 30	- 15 00	1.70	790.98	621.87	215.32	
11-12	173 00	300 30	173 00	- 25 20	4.90	789.51	621.15	214.88	
12-13	173 00	267 00	087 00	+ 2 20	3.25	790.55	616.85	212.78	

See p 75

August 14 1973

Grade 5 (C, A, F)

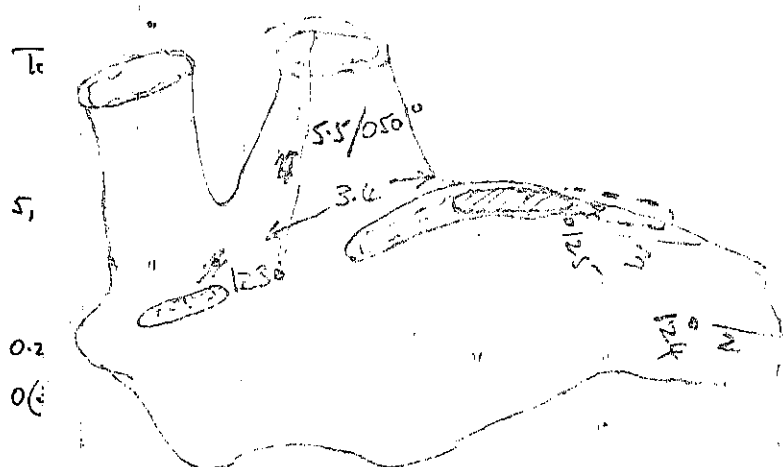
Var 7°20' W (True m.n.c.)



x flood level as shown by a heap of candles.

p pebble

in sump.



Var 7°30' W (True, m.n.c.)

root flat, 3m below 118.

of/wall.

actite below root rlv.

123 in opp direction

End 3m beyond 125. Floor rlv ends 0.5m beyond 125. Rlv with sandy mud floor. 10m deep below 125

Will, Terry, Alan T Grade 5 (C, A, F) Var 6°40' W (GRID N, m.n.c.)

1 is 800' contour crossing wall.

Wall corner (part demolished) at NE edge of active swallet def.

1, 9, 1, 1 m

N edge of shaft, on blackhouse roof

2m

Bottom of shaft

2, 1, 3, 6 m

In tunnel

9, 1, 5, 4

At corner, breakthrough point at 1m (squeeze with drop 6m).

3, 7, 5, 2

Next corner

1, 1, 8, 2

Corner. Railway passage starts on Right at 1.5m.

See p 75
August 14 1973

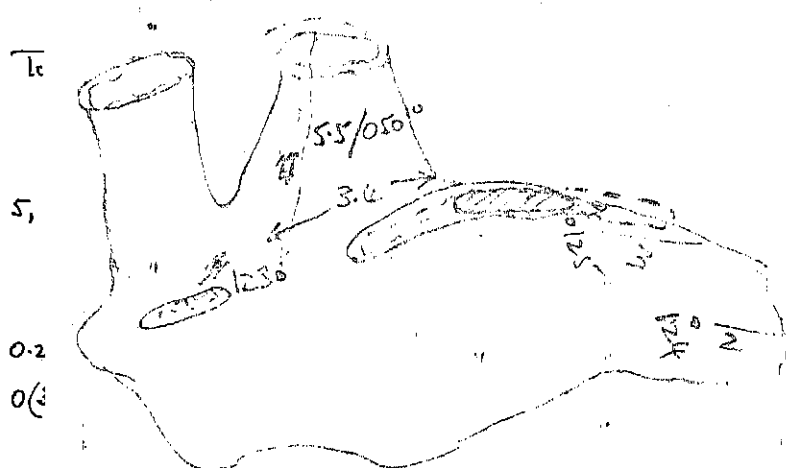
Grade 5 (C, A, F)

Var 7°20' W (True m.n.c.)

114 is apparently ^{just} above max flood level as shown by a heap of cinders.

Smoke-blackened projecting pebble

Water level in upstream sump.



Var 7°30' W (True, m.n.c.)

Foot flat, 3m below 118.

of wall.

actite below roof rlt.

123 in opp direction

End 3m beyond 125. Floor rlt ends 0.5m beyond 125. Rlt 10m deep below 125 with sandy mud floor.

Well, Terry, Alan T Grade 5 (C, A, F) Var 6°40' W (GRID N, m.n.c.)

1 is 800' contour crossing wall.

Wall corner (part demolished) at NE edge of active swallet dept.

1, 9, 1, 1 m

N edge of shaft, on blackhouse roof

2m

Bottom of shaft

2, 1, 3, 6 m

In tunnel

9, 1, 5, 4

At corner, breakthrough point at 1m (squeeze with drop 6m).

3, 7, 5, 2

Next corner

1, 1, 8, 2

Corner. Railway passage starts on Right at 1.5m.

See p 75

August 14 1973

Grade 5 (C, A, F)

Var 7°20' W (True m.n.c.)



L as shown by a heap of candles.

Tom, Bob, Terry

Grade 5 (C, A, F)

Var 7°30' W (True, m.n.c.)

Rift 1m wide continues 4.4m at 156°. Foot flat, 3m below 118.

5, 1, 0.5, 0.5

Foot of chimney

Side of chimney

Smoke mark above chimney, on roof/wall.

0.2, 0.2, 2, 1

0(3 in rift), 0.5(8 in rift), 6, 3. 123 is smoke-blackened stalactite below roof rift.

End 2m beyond 124

Floor rift 3m long extends back from 123 in opp direction

End 3m beyond 125. Floor rift ends 0.5m beyond 125. Rift 10m deep below 125 with sandy mud floor.

Well, Terry, Alan T

Grade 5 (C, A, F)

Var 6°40' W (GRID N, m.n.c.)

1 is 800' contour crossing wall.

Wall corner (part demolished) at NE edge of active swallowt dep.

1, 9, 1, 1 m

N edge of shaft, on blackhouse roof

2m

Bottom of shaft

2, 1, 3, 6 m

In tunnel

9, 1, 5, 4

At corner, breakthrough point at 1m (squeeze with drop 6m).

3, 7, 5, 2

Next corner

1, 1, 8, 2

Corner. Railway passage starts on Right at 1.5m.

STA	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt ^c
13-14	132 20	/	132 20	- 6 30	2.34	793.75	617.39	212.92	
14-15	/	007 40	187 40	- 24 40	9.70	795.64	616.04	212.65	
15-16	355 30	/	355 30	- 11 20	1.42	795.49	607.22	208.60	
Δ 16						49795.22	55608.59	208.32	

MANOR FARM SWALLET To Curtain Chamber October 19th 1973

Δ 13-17	228 30	/	228 30	- 19 20	2.05m	793.75	617.39	212.92	
17-18	/	031 00	211 00	- 6 40	5.50	792.46	615.95	212.24	
18-19	223 00	/	223 00	- 12 10	5.79	790.23	610.96	211.60	
19						786.89	606.39	210.38	
Δ 16-20	/	/	/	- 90 00	5.75	795.22	608.59	208.32	
20-21	/	009 00	189 00	- 23 40	10.17	795.22	608.59	202.57	
21-22	188 00	/	188 00	- 27 20	11.69	794.87	599.28	198.49	
22-23	/	026 00	206 00	- 31 20	4.47	794.66	588.90	193.12	
23-24	110 00	/	110 00	- 31 40	0.90	793.40	585.29	190.80	
24-25	/	016 30	196 30	- 30 50	12.70	794.15	585.12	190.32	
25-26	193 00	/	193 00	- 26 40	10.23	792.32	574.37	183.81	
26-27	/	355 00	175 00	- 35 30	6.80	791.34	565.28	179.22	
27-28	217 00	/	217 00	- 46 50	4.68	792.47	559.86	175.27	
28						49790.86	55557.09	171.86	

MANOR FARM SWALLET Alberts Eye + Stream Junction Oct 31st 1973

28-29	/	015 00	195 00	- 28 40	9.95m	790.86	557.09	171.86	
29-30	174 00	/	174 00	- 21 50	5.50	789.65	548.45	167.09	
30-31	/	013 00	193 00	- 32 50	14.94	790.79	543.47	165.04	
31-32	173 30	/	173 30	- 15 00	3.96	789.48	530.99	156.94	
32-33	/	032 00	212 00	+ 6 45	2.78	790.37	527.27	155.92	
33-34	193 00	/	193 00	- 1 10	5.94	789.21	524.76	156.24	
34-35	/	019 00	199 00	- 9 50	7.81	788.59	518.86	156.12	
35-36	218 00	/	218 00	- 23 15	5.70	786.99	511.33	154.79	
36-37	/	019 00	199 00	- 51 00	5.42	784.29	506.84	152.54	
37-38	252 00	/	252 00	- 11 00	4.74	783.58	503.51	148.33	
38-39	/	095 00	275 00	- 5 10	1.56	779.36	501.54	147.42	
39-40	184 40	/	184 40	+ 5 20	1.97	777.81	501.48	147.28	
Δ 40-41	/	058 30	238 30	- 19 00	4.35	777.89	499.53	147.46	
41-42	120 00	/	120 00	- 35 40	13.17	774.67	496.96	146.05	
42-43	/	337 10	157 10	- 8 40	5.50	784.52	492.78	138.37	
43-44	109 30	/	109 30	- 19 30	9.09	787.23	488.07	137.54	
44 Δ						49795.59	55486.21	134.51	

MANOR FARM SWALLET To near NHASA Gallery November 16th 1973

Δ 44-45	/	346 00	166 00	- 11 10	9.79	795.59	486.21	134.51	
45-46	130 20	/	130 20	- 11 40	15.55	799.01	477.23	132.61	
46-47	/	350 00	170 00	- 5 00	4.86	811.71	468.83	129.47	
47-48	144 20	/	144 20	- 10 40	6.15	813.11	464.19	129.05	
48-49	/	005 00	185 00	- 10 00	5.05	817.19	459.74	127.91	
49-50	271 30	/	271 30	- 29 30	3.49	817.35	454.77	127.03	
50-51	/	345 00	165 00	- 27 00	8.01	814.33	454.49	125.31	
51-52	185 30	/	185 30	- 12 10	11.47	816.98	447.86	121.68	

Hammered cross in roof 0.2m over 13

Sound of stream below.

2, 6, 3, 2 m } ~~Passage up to beyond 14. Passage up to~~ Stone wall on left all way to beyond 14. Passage up to tip on left at 1m.

1.2, 1, 2, 8 at top of old tramway.

5, 1, 3, 2 End of rift, beyond pitch. "15' Pitch"

Hammered dent in W wall, 3m below wooden stemple holding ladder.

Will, Terry, Tom

Grade 5 (C, A, F)

Var. 6°50'W (m.n.c., GRID N)

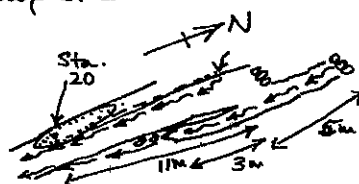
See above

8, 3, 3, 8 m

5, 1, 3, 7

1(4), 2, 1, 5

Passage ends 2m on. Ruckle above + on left see above.



low passage up dip from below pitch, separated from upper passage by closed rift.

6, 4, 2, 3

7, 1, 1.5, 5 Start of tip on right. Roof rises from 1.5m 2m back; drops to 1.5m 2m on. Stream

2, 6, 0, 1 In dig. tip on right. stream

3, 6, 7, 5 In dip. stream.

Stream vanishes into rocks on floor 1m on.

8, 1, 1.5, 1 2m before first curtain, where enters "Curtain Chamber"; widens 3m on left + 4

2(7), 4, 4, 1.8 In chamber on rock by stream, just before start of pitch 20'

3, 5, 2, 2. E edge of N-S pit 2m wide, 6m deep, in Shales at base, in small fault.

Projection in lower N end of unstable stal bridge. V. wet!

Will, Terry, Tom

Grade 5 (C, A, F)

Var 7°00'W (m.n.c., GRID N)

2, 3, 6, 4 m

3, 1.7, 1.2, 3 Bypass starts in roof above. First Pot (1.3m). Second Pot (0.6m) 1m on. 3rd Pot (2.5m), 4th + 5th Pots (2.5 + 2m) are composite.

2, 8, 4, 1.2 } 2m beyond 6th Pot (1m). All pots have fluted stal fillings.

1.5, 1, 5, 3 } Albert's Eye 2.5m on, body size. Stream flows thru choke .7m lower.

5, 3, 0, 6

7, 1, 2, 1 High roomy rift going back over the Eye, which is in stal'd chokestuff.

6, 2, 2, 1

4, 2, 1.5, 1 False stal floor at hip level. Opposite helictites

8, 8, 2, 1.3 Lip of 15' Pot (steep, not sheer).

2, 2, 1.5, 1 False floor at chair level starts 1m on.

1, 2(2), 1.5, 1.5 At end of false floor.

8, 1.5, 5, 1.2 Corner.

6, 2, 0, 2 Screw in left wall .5m above start of false floor at neck level.

6, 2, 2, 1 Stream Junction. Steep descent just beyond.

2.5, 2, 5, 2 On stal bank on left wall.

2, 2, 2.5, 5 Opposite giant titty of many nipples! Pot (1.5m) 2m beyond.

4, 1.4, 0, 2 Screw in left wall.

Tom, Alan T

Grade 5 (C, A, F)

Var 6°50'W (m.n.c., GRID N)

See above. Brown inlet 5m up on right at 6.7m.

4, 2, 1, 0.5

4, 2, 0, 1.5

5, 2, 5 (alcove), 0.5 Brown inlet on left at 2m.

5, 2, 1, 1

5 (cross rift), 2, 1.5, 1.5

7, 2, 1, 2 Candle on lip of 2m drop. John Han's Corner (collapsed false floor).

8 (v. narrow), 1, 0.5, 1 Boulder jams in rift.

STA	F.S.	B.S.	Bearing	F.C.	Dist	E	N	Alt	Alt ^c
52-53		349 30	169 30	- 2 50	m 2.06	817.24	436.65	119.26	
53-54	205 00		205 00	- 31 00	4.07	817.85	434.69	119.16	
54-55		387 20	177 20	+ 4 15	11.96	816.77	431.37	117.06	
55-56	146 00		146 00	+ 11 45	2.36	818.73	419.61	117.95	
56-57		010 30	190 30	- 18 30	3.39	820.25	417.86	118.43	
57-58	176 00		176 00	- 12 20	4.77	820.04	414.65	117.35	
58 Δ						49,820.92	55,410.08	116.33	

RESERVOIR HOLE Topless Avenue to Sanna Bath Chamber Nov. 21st 1973

Δ									
512-524		306 30	126 30	+ 4 40	At. 19.4'	7,403.2	6,608.4	253.5	
524-525	167 30		167 30	+ 21 00	8.7	420.1	599.0	255.1	
525-526		261 30	081 30	+ 37 20	8.5	422.9	591.4	258.2	
526-527	171 30		171 30	+ 33 30	7.7	429.4	593.3	263.4	
527-528				+ 90 00	16.7	431.2	587.1	267.6	
528-529		206 30	026 30	+ 22 10	9.1	431.2	587.1	284.3	
529-530	137 00		137 00	+ 3 20	11.7	433.9	595.1	287.7	
530-531		040 00	220 00	+ 72 30	29.0	442.9	587.6	288.4	
531-532	074 00		074 00	- 27 10	2.2	438.2	580.3	316.1	
532-533		027 00	207 00	+ 5 15	9.2	440.0	581.0	315.1	
533-534	262 30		262 30	+ 11 00	9.6	437.0	572.4	315.9	
534 Δ						7,427.9	6,570.0	317.7	
532-535		309 00	129 00	+ 17 00	7.5	440.0	581.0	315.1	
535-536	005 00		005 00	+ 49 00	34.0	446.1	577.3	317.3	
536						7,445.2	6,599.6	342.9	

MANOR FARM SWALLET. NHASA Gallery to end Dec. 28th 1973

Δ									
58-59		016 00	196 00	- 4 30	3.18m	49,820.92	55,410.08	116.33	
59-60	182 00		182 00	- 15 20	15.65	820.41	406.95	116.08	
60									
59-61	156 00		156 00	+ 34 30	5.39	820.41	406.95	116.08	
61-62		193 00	013 00	+ 33 30	12.63	822.67	403.13	119.13	
62									
61-63		328 00	148 00	+ 32 40	2.03	822.67	403.13	119.13	
63-64	171 00		171 00	+ 5 20	9.44	823.74	401.80	120.23	
64-65		018 30 108.30	198 30	- 20 45	13.34	826.28	392.75	121.11	
65-66	192 00		192 00	- 38 10	19.94	823.72	380.54	116.38	
66-67		005 00	185 00	- 10 50	10.50	822.26	364.93	104.06	
67-68	192 00		192 00	- 19 20	29.28	822.56	354.62	102.09	
68-69		024 00	204 00	- 12 40	6.71	819.99	327.11	92.39	
69-70	142 00		142 00	- 11 40	8.25	818.04	320.86	90.92	
70-71		016 00	196 00	- 2 10	15.70	823.72	315.11	89.25	
71-72	230 00		230 00	- 11 50	9.60	821.18	299.63	88.66	
Δ									
72-73	150 00		150 00	+ 0 00	c. 11.0	814.73	292.80	86.69	
73						821.30	283.98	86.69	

Notes

- 2(8), 1, 1, 0.4 On rock jam. Holes connect with rift above
 0.5 (more), 2, 0.5, 0.5 Start of inclined rift, v. high but too narrow, with jams at head ^{height}
 8, 0, 1, 0.3 Start of pool in inclined rift.
 6, 2, 1, 0.5 Big roof inlet on left 2m before sta. 56.
 2, 3 (rock bridge), 0.2, 1.4 Curve in inclined rift, which is narrower at stream level.
 5, 2, 0.5, 0.5 Inclined rift below grottoes.
 5 (under chockstone), 2, 2 (high level) 0.5 Nail in left wall, eye level, 1m beyond big roof curtain.
 Will Grade 5 (C, A, F) Var. $7^{\circ}30'W$ (m.n.c., TRUE N)
 See p. 65

- 3, 2, 1, 2 (feet) Corner in inclined shaft.
 -, 0, 1, 1 Bottom of shaft
 5, -, 1, 1 Top of shaft, at floor level Chamber of Horrors.
 2, 4, 5, 5 Below mammoth, on wall seat.
 -, 0, 1, 2 Base of shaft. 9th step up, 2nd down.
 Above shaft top.
 8, 1, 0.10, 1 Candle on shaft edge, Sauna Bath Chamber.
 4, 3, 4 (choke), 8

Top of stumpy stalagmite on west wall 3' below roof.

- 8, 3, -, 1 Beside east wall below mighty flake.
 Top of "South Passage".

Will, Tom, Terry, Bob. Grade 5 (C, A, F) Var. $6^{\circ}40'W$ (mnc GRIDN)
 see above

3, 1, 2, 5m

- 1.5 (rocks), 3, 0, 2 Below ruckle: 8m on + ^{3m} down to squeeze in stream, then 6m to end, in roughly same line.

- 4, 0, 4, 2 Top of squeeze in floor of NASA Gallery.

- 3, 7, 3, 2 Near top choke of NASA Gallery, gets low here. 5m on to wide low end. Shitty low inlet on W side.

- 2.5, 1.5, 3, 3 Grottoes on W.

- 1, 1, 4, 5 Roof steps up 2m at sta. 64. Small grotto on left of passage with fault debris.

- 1, 2, 4, 3 Roof steps down 3m at 5m on, with flood debris (grass) reaching lower part of step.

- 4, 1, 3, 5 Stream at floor level in E wall.

- 1.5, 1, 4, 4.5 Tom's grotto on E of 67, in fault, 10m long, 8m high, 2m wide.

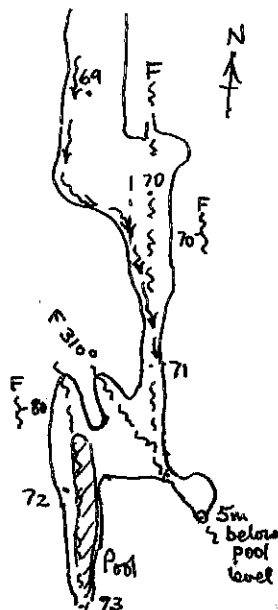
- 7, 6, 3, 4

- 2, 5, 3, 3 Corner to E at 4m. Fault entered at 7m

- 1, 0, 3, 1 In fault. phreatic passage.

- 1.5, 3, 1, 1.5 Fault ends at corner 6m on. Stream sinks under boulders.

- 4.5, 4, 1.5, 1 Pool (perched) in echelon fault passage. Sta on W. wall.
 Passage closes down at end of pool



STA, FS, B.S., Bearing, FC, Dist, E, N, Alt, Alt C

RESERVOIR HOLE Sauna Bath Chamber to Herbert's. Feb 13th 1964

Δ									
534-537		207°	027	+ 8 20	3.4'	7,427.9	6,570.0	317.7	
537-538	177°		177	+ 6 15	9.6	429.0	573.2	318.2	
538-539				+ 90 00	8.7	430.7	563.8	319.2	
539-540		284	104	+ 12 40	2.6	430.7	563.8	327.9	
540-541	172		172	+ 27 50	18.4	433.3	563.5	328.5	
541-542		229	049	+ 21 15	5.5	437.6	547.8	337.1	
542-543	201		201	+ 30 10	22.6	441.0	551.6	339.1	
543-544		009	189	+ 25 20	10.4	436.4	532.6	350.4	
544-545	203		203	+ 30 30	76.7	436.1	523.2	354.9	
545-546		109	289	+ 53 20	4.8	418.2	459.6	393.8	
546-547	179		179	+ 58 40	34.4	415.4	460.2	397.7	
547-548		102	282	+ 3 50	11.8	418.0	442.5	427.1	
548-549	162		162	+ 21 20	23.9	406.3	443.4	427.8	
549-550		188	008	+ 30 30	1.7	415.8	423.3	436.5	
550-551	213		213	+ 58 50	50.1	415.8	424.8	437.4	
551-552		027	207	+ 24 20	20.2	404.6	401.4	480.3	
552-553	199		199	- 16 00	22.3	398.4	384.1	488.6	
553						7,394.1	6,363.1	482.5	

RESERVOIR HOLE To end of Herbert's February 16th 1974

553-554		354	174 00	+ 1 20	20.1	7,394.1	6,363.1	482.5	
554-555	173 30		173 30	- 9 20	18.1	398.8	343.6	483.0	
555-556		223	043 00	+ 23 20	11.2	403.1	326.2	480.0	
556-557	065		065 00	+ 17 30	c.25.0	409.1	334.6	484.5	
557						7,429.2	6,347.4	492.0	

MANOR FARM SWALLET Passage off Curtain Chamber Feb 27 1974

28-74		206 00	026 00	+ 46 20	10.19m	49,790.86	55,557.09	171.86	
74-75	026 00		026 00	+ 36 00	10.26	793.13	563.75	179.23	
75-76		223 00	043 00	+ 3 40	5.26	795.81	571.60	185.26	
76-77	037 30		037 30	+ 4 10	7.74	798.88	575.86	185.60	
77-78		216 00	036 00	+ 17 20	7.68	802.78	582.52	186.16	
78-79	024 30		024 30	+ 13 20	10.05	806.32	588.95	188.45	
79-80		208 00	028 00	+ 41 50	8.07	809.23	598.28	190.77	
80-81	036 30		036 30	+ 22 30	6.04	811.37	603.90	196.15	
81-83		173 30	353 30	+ 10 20	11.02	814.10	608.77	198.46	
83-84	358 00		358 00	- 8 15	2.93	811.54	619.30	200.44	
84-85		204 00	024 00	+ 72 30	1.80	811.08	622.16	200.02	
85-86	003 00		003 00	+ 31 30	8.07	811.23	622.68	201.73	
86-87		225 00	045 00	+ 33 10	4.01	810.74	629.54	205.95	
87-88	007 00		007 00	+ 29 30	16.03	812.80	632.19	208.14	
88-89	020 00		020 00	+ 18 00	10.00	812.76	646.15	216.04	
89						814.87	655.42	219.13	
88-90	323 00		323 00	+ 60 00	8.00	812.76	646.15	216.04	
90-91	020 00		020 00	+ 15 00	10.00	809.97	649.01	222.96	
91						49,812.11	55,658.43	225.55	

NOTES

Terry, Brian.

Grade 5 (C, A, F)

Variation 7°20'W (m.m.c. TRUE N.)

See p. 78

Knob on N Wall 1' above shaft top, smoothed.

6, 2, 10, 8, 4 (feet)

On boulder projecting from middle of slope.

50, 6, 1, 10

This leg passes under chockstone. Rift continues 30' North of 542 to choke.

35, 18, 3, 4

Boulder at head of steep slope.

30, 6, 1, 4

Boulder slope starts 23' on and 6' lower.

3, 4 (9), 9, 1

Sta 545 is ^{on flat slab} at level of roof over 544. Roof rise (at 90°) begins 13' S of 544.

24, 7, 8, 0, 13

On steep bit, 6' below lip of rope climb, above jammed slab.

6, 4, 8, 12, 1

In niche on E wall (fault plane).

By W wall, under overhang.

60, 38, 1, 12

550 is 8' lower than roof 20' back, where it starts to rise at 60°, the apex being over 550. Huge chockstone 10' thick starts 5' on.

10, 0, 9, 7

Lip of pitch. Herbert, 3' high, at 7'.

10, 3, 8, 7

Highest point of path.

8 (20 rft), 3, 10, 5

Top of broken stalagmite on W edge of path, by pseudo-cave-pearls.

Tom, Bob, Will

Grade 5 (C, A, F)

Variation 7°30' (m.m.c. TRUE N.)

see above

3, 3, 2, 8 (dip)

1, 5, 5, 5

Bottom of Robert's Folly

1 (3), 5, 3, 1

Too tight at 10'.

In low bedding plane beyond constriction.

Tom, Alan T, Terry, Brian

Grade 5 (C, A, F)

Variation 7°10'W (m.m.c. GRID N.)

See p. 77

11/15/83

By tape S of Curtain, above pitch.

1, 1, 5, 1 (m)

Entrance to side passage.

1/15/83 (1/15) 1, 6, 5, 5

Entrance to side passage. Lowest point of roof, ^{-3m} 2m high to each side. Hole in floor at 4m.

5, 0, 3, 1

Inclined squeeze past stal flow, scalloped.

1 (3 rft), 5 (gour), 1, 3

Roof is cemented fill.

2.5, 0, 5, 7

Up 2.5m at 4m, under false floor. ~~Start of chamber~~

1.5, 2.5, 1.5, 1

Start of chamber.

6, 18, 3, 5

Centre of chamber. Passage goes 16m ^{from 81} at 023° to choke (Sta 82). ^{6m along 81-83.} Chamber ends

5, 8, 7, 3

2m before roof drops to 4m above floor.

2, 2, 8, 6

Just beyond muddy crawl. ~~After 2m step up~~ ^{deep} before sta 86.

5, 1.8, 1, 4

1m before 2m step up, followed by short crawl. Alcove on left 6m x 4m just

2.5, 1.8, 0, 1.5

Boulder-floored passage, small stream.

3, 1, 5, 1

Start of chamber with boulder floor in shaly ls.

8, 2, 6 (rft), 3

Passage rising to boulder choke, rocky floor.

Boulder choke.

High narrow rift with small stream.

Narrow rift, floor rises to meet roof

End.

STA	F.S.	B.S.	Bearing	FC	Dist	E	N	Alt	AGC
WOOKEY HOLE CAVE Tunnel to Nine to Seven. April 3 1974									
93-126		338 00	158 00	+21 20	9.36m	457.89	570.87		63.87
126-127	214 40		214 40	+5 45	6.37	462.14	563.26		
127						459.21	557.64		
93-128		153 00	333 00	+21 50	18.05	457.89	570.87		63.87
128-129	260 30		260 30	-14 00	9.77	448.42	584.73		
128-130	254 00		254 00	-17 00	13.32	448.42	584.73		
129						439.40	582.52		
130						436.77	579.72		

On leg 128-130, lip of Eight is 4.25m back from sta. 130, lip of Nine is 9.50m back from sta. 130. Sta 129 to south end of arch: 4.25m.

Sta 129 to water surface vertically below: 7.25m; Sta 130 to water surface vert. below: 5.70m

Sta 129 to water at S end of Eight: 10.70m Sta 130* to water at S end of Seven: 6.74m

WOOKEY HOLE CAVE Across Seven to probe hole April 29 1974									
129-131		054 00	234 00	-10 40	4.39				
131-132	204 00		204 00	-5 00	c.4.60				

MANOR FARM SWALLET Aven Passage June 5th 1974									
40-92		067 00	247 00	-14 10	4.58m			147.46	
92-93	357 00		357 00	+7 00	9.20			113.33	
93-94		107 00	287 00	+19 20	6.88			113.33	
94-95	310 00		310 00	+17 45	8.93			113.33	
95-96		047 00	227 00	+27 00	2.42			113.33	
96-97	096 00		096 00	+51 50	6.71			113.33	
97-98		220 00	040 00	+34 00	1.76			113.33	
98-99	356 00		356 00	+16 30	1.34			113.33	
99-100		133 00	313 00	+10 00	20.50			113.33	
100-101	223 00		223 00	level	0.60			113.33	
101-102	320 00		320 00	+4 00	6.4			113.33	
102-103	038 00		038 00	(average) +7 00	12.0			113.33	
103								113.33	

BLACKMOOR FLOOD SWALLET SB4 to end May 19th 1976									
65-66				-90 00	0.00 0.97			216.21	
66-67		287 00	107 00	-3 30	10.83			215.24	
67-68	097 30		097 30	-9 30	5.20 6.02			214.58	
68-69		289 00	109 00	+6 45	7.47 7.52			213.59	
69-70	109 00		109 00	horiz	5.4			214.48	
70					28.5m			214.48	

WATER WHEEL SWALLET surface tie-up March 29th 1978									
16-71		043 30	223 30	+0 40	29.19	50511.84	55736.00	240.55	
71-72	212 20		212 20	-2 20	27.72	494.34	712.64	240.88	
72-73		032 20	212 20	+0 40	28.42	482.35	687.67	239.76	
73-74	175 40		175 40	+1 10	20.26	470.04	662.06	240.09	
74						50, 473.90	55, 640.36 642.48	241.28 240.50	241.28
74-75		108 20	288 20	+7 40	29.87	473.90	642.18		
75-76	258 30		258 30	+7 20	28.11	444.91	648.16		

Notes

Terry, Bob, Prew.
See p 76

Grade 5 (C, A, F)

Variation $7^{\circ}10'W$ (MNC) True N

Centre of breakthru of tunnel into wall of Nine
Turning point 4. peg in roof of tunnel.

metres
6+, .78, .00, 3. On E end of boulder bridge, against rock wall. Sta 129 is ^{candle} 1.3m from N end of arch, on lip of drop down into Eight. Sta 130 is top of tiny upper rock bridge in rent in wall, 1m thick, between Eight and Seven.

Station 130* is 1m beyond sta 130, at same level, above lake in Seven.

Harold ?

Var. $7^{\circ}10'W$ (MNC) True N

Will, Terry, Brian
see p 77.

Grade 5 (C A F)

Variation $6^{\circ}50'W$ (MNC) GRID N

1, 1.3, 1, .00 m 1m before aven 7m high, 4m wide.

3, 0, 1.5, .5 Corner, 4m beyond aven.

1.2, 1, .3, .7 1m beyond climb of 1.5m
2m short of aven end.

Against aven wall

2, 1, 1.5, 0 Stal boss against wall

~~1.5, 1.2, 1, .3~~ On stal at corner, narrow for 3m beyond

.5, 1.2, 1, .3 On stal at corner, narrow for 3m beyond

2, 1, .5, .5 Start of wiggle at end of long narrow rift 3m high.

.5, 1, .5, 1 This section mostly 1m high.

1, 1, .5, .00 Squeeze at floor level after 6m. Measured in body lengths. ^{rift 3m high.} End: stal choke in.

Will, Sue

Grade 5 (C, A, F)

Variation $6^{\circ}30'W$ (MNC) GRID N.

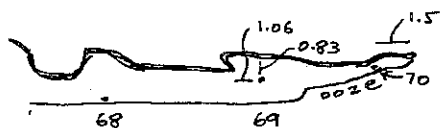
see p 73

D/S End of SB4 at 3.5m

.6, .8, .6, .3

1(1.5), 0, .2, .5

.83, 1, .6, .4



Sue

Grade 5 (C, A, F)

Variation $6^{\circ}40'W$ (MNC) GRID N.

See page 72

Abney
Alt of 74 is 242.05m according to levelling from spot height 772' (ST 503555). Mean
Nail head on fence post by track by WWS compensated merthing of 240.50 and 242.05 is 241.28

STA	F.S.	B.S.	Bearing	FC	Dist	E	N	Alt	Alt C
76-77		098 40	278 40	+ 6 20	25.23	50,418.41	55,639.47		
77-78	259 00		259 00	+ 3 40	27.06	393.36	640.35		
78						367.50 367.63	628.50 632.15		
74-79	111 30		111 30	- 18 20	11.90	473.90	640.36	241.28	
79						50,484.82	55,637.46	237.54	

Waterwheel Swallet

Entrance to end April 8th 1978

79-80				- 90 00	4.36	50,484.82	55,637.46	237.54	
80-81		327 40	147 40	- 4 20	3.33	484.82	637.46	233.18	
81-82	118 00		118 00	+ 8 35	7.82	486.92	634.88	232.92	
82						494.13	632.09	234.09	
81-83	265 00		265 00	- 59 35	3.80	486.92	634.88	232.92	
83-84		326 30	146 30	- 12 15	3.20	485.03	634.49	229.65	
84-85				- 90 00	1.52	487.05	632.11	228.97	
85-86		001 00	181 00	+ 9 00	0.70	487.05	632.11	227.45	
86-87	206 00		206 00	- 45 00	3.99	487.12	631.42	227.56	
87						50,486.20	55,628.75	224.74	

Waterwheel Swallet

To Peaty Aven

August 13 1978

87-88				- 90 00	1.88	50,486.20	55,628.75	224.74	
88-89		026 00	206 00	- 17 40	3.52	486.20	628.75	222.86	
89-90	144 00		144 00	+ 7 10	2.29	485.10	625.58	221.79	
90-91	110		110	+ 60	9.1	486.64	623.92	222.08	
91						50,491.07	55,622.88	229.96	

Waterwheel Swallet

Surface and end

July 25 1978

74-92		332 30	152 30	+ 2 35	26.10	50,473.90	55,640.36	241.28	
92-93	052 00		052 00	- 30 20	2.31	488.54	618.79	242.46	
93						50,489.96	55,620.19	241.29	
90-94				- 90 00	2.13	50,486.64	55,622.92	222.08	
94-95		326 00	146 00	+ 11 10	3.41	486.64	623.92	219.95	
95-96	139 00		139 00	+ 10 55	3.82	488.82	621.38	220.61	
96-97				+ 90 00	0.81	491.59	618.86	221.33	
97						50,491.59	55,618.86	222.14	

L=57.0

Waterwheel Swallet

Surface

August 17 1979

93-98		335 00	155 00	- 9 30	17.45			241.29	
98-99	101 00		101 00	- 20 20	9.71			238.42	
99-100		042 00	222 00	+ 5 40	15.12			235.05	
100-101	121 30		121 30	- 10 40	11.81			236.54	
101								234.35	
100-102	092 00		092 00	- 26 50	7.50			236.54	
102								233.15	
100-103	208 00		208 00	level	30.00			236.54	
103								236.54	
100-104	342 00		342 00	- 20 10	5.00			236.54	
104								234.82	

Waterwheel Swallet

To new end

Sept. 17 1979

97-105		302 00	122 00	+ 7 10	2.23	50,491.59	55,618.86	222.14	
105-106	141 00		141 00	+ 27 00	2.82	493.60	617.92	222.42	

Notes

Wall corner, 1m above ground level (map co-ordinates 50,367.50; 55,628.50)

Centre of lid of Waterwheel Swallet entrance shaft. ~~0.5m above floor~~

Steve, Pete Grade 5 (C, A, F) Variation 6°50' W (m.n.c.) Grid N

As above. Centre of top of entrance shaft.

1m below shaft bottom, 1.3m above platform. 80 is on masonry wall, projecting stone.

- 3, 3, -, -. 82 is half way up bottom rim of sloping iron barrel.
 1.5, 1.7, 2.5, 1.5 81 is 0.5m above edge of cement-mixing board. Floor is stony path around funnel.
 5, 1, 3, 1 83 is point of rock in floor of squeeze
 1, 1.5, 1, 2.5 (station data looking back from 85 to 84)
 85 is on floor, boulder slope.

6, 5, 1.5, 4 (beyond pillar at .7)

Nail cemented into roof of Black Passage, facing N, 1.7m above present floor.

Sue Grade 5 (C, A, F) Variation 6°50' W (m.n.c.) Grid N

1, 0, 2, 1 On step.

5, 1.1, 1.5, 1 Corner.

1, 2.1, -, 2 Point of 5cm stalactite on N wall. Below Peaty Aven. Present end is 3.4m beyond at 140°.
 Top of Peaty Aven. Ruckle. Approx sighting only.

Bob & Will Grade 5 (C, A, F) Variation 6°40' W (m.n.c.) Grid N.

Nail head on fence post. See p 80.

Sitting on high point of tip.

93 is centre of top of stake near top of E face of tip, driven in to ground level.

Point of stal, see above.

Peaty Aven ends at 1m.

1, 1.5, 4, 1 Above lake. 0.5m before "6" □ hole. Roy's rift 1.5m on left. Walling begins on left at 2m.

8, 1.4, 2, 1.3

Head of nail in cement in masonry roof, below overhead tip.

Sue Grade 5 (C, A, F) Variation 6°30' W (m.n.c.) Grid N.

Head of stake - see above.

1m above incline/path, south verge, at top of ramp, incline trends 041 mag and 247 mag.
 At path junction.

On path, 1.73m above ground, at junction with small path up NW corner of tip.

Middle of breached culvert, 0.5m above floor and 0.05m above roof.

Floor of depression (? buddle.)

Start of bend in path (? tramway) between tips.

Foot of tip slope in back of small bay.

Will, Bob. Grade 5 (C, A, F) Variation 7°00' W (m.n.c.) Grid N.

See above.

1.3, 1, 2, 4 On second step down, ^{which is} 0.5m above floor level of Ruckle Passage.
 continued on p 83.

STA	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt C
WOOKEY HOLE		CAVE		Wookey 20		1978			
133-134	270 00		270 00	+32	10				
134-135	020		020 00	+50	8				
135-136	065		065 00	+14	24				
136-137	323		323 00	+20	49				
137-138	326		326 00	+19	31.5				
138-139	266		266 00	-27	65				
139-140	287		287 00	-10	100				
140-141	022		022 00	+31	47				
141-142	353		353 00	-4	69				
142-143	042		042 00	+18	35				
143-144	066 30		066 30	+16	26				
144-145	084		084 00	+13	54				
145-146	001		001 00	+11	55				
146-147	054		054 00	+15	45				
147-148	081		081 00	+22	70				
148-149	357		357 00	+11	38				
149-150	357		357 00	-3	36.5				
150-151	046		046 00	+10	26				
151-152	346		346 00	-18	30				
152-153	307		307 00	-12	27				
153-154	341		341 00	-17	24				
154-155	004		004 00	-20	22				
155-156	001		001 00	-4	28				
156-157	043		043 00	+18	41				
157-158	019		019 00	+18	80				
158-159	349		349 00	+1	73				
159-160	004 30		004 30	+10	54				
160-161	003		003 00	+9	53				
161-162	045		045 00	+43	44				
162-163	002		002 00	+19	17.5				
163-164	241		241 00	-31	18				
164-165	336		336 00	-10	20.5				
165-166	275		275 00	-67	28				
166-167	288		288 00	-36	29				
167-168	330 30		330 30	-22 30	46				
168-169	341 30		341 30	+6	31.5				
169-170	295		295 00	-25	24				
170-171	303		303 00	-30	13.5				
171									
160-172		134	314 00	-24	37				
172-173		166	346 00	-8	36				
173-174		185	005 00	+5	60				
174									
163-175		179	359 00	0	9				
175-176		278	098 00	0	12.5				
176-177		250	070 00	-40	39				
177-178		265	085 00	-10	22				
178					feet				

Notes

Copied and adapted from survey by Messrs Teadon + ~~Shattuck~~ ^{Supposed Grade 4-5. Est. mag. var. 7° W.}, sent by Oliver Lloyd Teandle

Water level in pool in 19 ("20")

STA	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt C
106-107				+ 90 00	0.79	495.40	616.18	223.70	
107 0						495.40	616.18	224.49	
105-108	064 00		064 00	level	4.00	493.60	617.92	222.42	
108						496.95	620.10	222.42	

L = 60.0

Waterwheel Swallet

to present end

January 23rd 1980

1980

0 107-109				- 90 00	0.77	50,495.40	55,616.18	224.49	
109-110	149 00		149 00	- 4 10	2.97	495.40	616.18	223.72	
110-111				+ 90 00	0.73	497.18	613.81	223.50	
0 111-112				- 90 00	4.18	497.18	613.81	224.23	
112-113				+ 90 00	0.52	497.18	613.81	220.05	
113-114	120 30		120 30	- 31 30	1.59	497.18	613.81	220.57	
114-115				+ 90 00	0.09	498.42	613.25	219.74	
0 115						50,498.42	55,613.25	219.83	

Wookay Hle Cave

Wookay 24

Feb 2 1980

179-180		124 00	304	0 00	15	1,000.00	1,000.00	200.00	
180-181		152 00	332	0 00	53	986.61	1006.75	200.00	
181-182		142 00	322	+ 3 00	83	956.02	1050.03	200.00	
182-183		155 00	335	- 6 00	18	897.15	1108.39	204.34	
183-184		154 00	334	+ 5 00	50	887.60	1123.53	202.50	
184-185		123 00	303	+ 5 00	100	860.29	1165.18	206.82	
185-186		118 00	298	- 19 00	37	770.56	1208.46	215.54	
186-187		132 00	312	+ 6 00	43	737.85	1220.85	203.49	
187-188		237 00	057	+ 6 00	54	702.71	1245.23	207.98	
188-189		253 00	073	+ 9 00	56	743.70	1279.93	213.63	
189-190		262 00	082	+ 3 00	30	794.13	1302.65	222.39	
190-191		184 00	004	+ 35 00	43	823.03	1310.53	223.96	
191-192		242 00	062	+ 1 00	100	821.03	1345.69	248.62	
192-193		261 00	081	+ 2 00	100	902.69	1403.40	250.37	
193-194		279 00	099	- 25 00	27	998.63	1431.37	253.86	
194-195		347 00	167	- 16 00	35	1023.09	1430.62	242.45	
195-196	090 30		090 30	+ 0 30	44	1034.74	1399.05	232.80	
196-197	094 00		094 00	0 00	100	1078.43	1404.22	233.18	
197						1178.27	1409.89	233.18	

Waterwheel Swallet

to new end

April 3 1980

0 115-116				- 90 00	2.94	50,498.42	55,613.25	219.83	
116-117		013 00	193 00	- 45 20	3.04	498.42	613.25	216.89	
117-118	146 00		146 00	+ 7 00	3.47	498.16	611.13	214.73	
118-119		309 00	129 00	+ 62 00	1.90	500.37	608.49	215.15	
119-120	053 00		053 00	+ 61 00	5.65	501.12	608.00	216.83	
120						503.12	609.87	221.77	
116-121		022 30	202 30	- 53 30	5.14	498.42	613.25	216.89	
121-122	320 00		320 00	- 57 30	0.76	497.55	610.32	212.76	
122-123		348 00	168 00	- 58 50	3.71	497.25	610.60	212.12	
123-124	244 00		244 00	- 46 00	0.72	497.85	608.78	208.95	
124-125				- 90 00	3.00	497.42	608.51	208.43	
125-126		320 30	140 30	+ 15 30	2.51	50,497.42	55,608.51	205.43	

Notes

N.B. continued from page 81

(nicks)
2, 1.9, .2, .3. Cave continues 4m along line 105-106. Head of nail in cement, in niche in roof.

Middle of end of Ruckle Passage, 1-1.5 m wide, ending in stony clay.
Will Grade 5 (C, A, F) Variation 6°50' W (m.n.c.) GRID N.

.3, 4.3, 1, 1.5 Wall, end of chamber, 1m on along line of last F.S. Top of det wire loop cemented in.

-, -, .6, .6

0, 3.25, .8, .1 looking along line of last F.S. Head of nail in cement, in niche in roof.

Copied & adapted from survey by Geoff Yeardon & Dave Yeandle, supplied by O.H.

Arbitrary co-ords and alt.

Variation 7°15' W True North

Stream sinks 15' beyond 185

Strip Corner

High level bypass crosses river

Start of lake

End of lake

Will, Bob Grade 5 (C, A, F)

Variation 6°00' W (m.n.c.) GRID N.

∞, .5, 2, .5 Top of steps

2, 1.5, .5, 1.2 Junction chamber

1m beyond Alan's Dip

Rift goes 2m at 190°/horizontally from 119.

Top of Red Curtain Rift, by red curtain.

1, 2, 3, 5

1 (Will's Lobbing Hole), 3, 1, 2 among rocks.

4, 0, 1, 2. Alan's other dip ends in rocks 4m at 310° mag

STA	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt c
126-127	222 00		222 00	-26 10	3.94	499.15	606.82	206.10	
127-128		006 00	186 00	-17 20	6.44	497.07	603.96	204.36	
128-129				+90 00	0.30	497.07	597.81	202.44	
0 129						50,497.07	55,597.81	202.74	

Waterwheel Swallet

Gour Slope and Bony Crawl

April 29th 1980

0 129-130				-90 00	0.49	50,497.07	55,597.81	202.74	
130-131		073 00	253 00	-25 15	2.32	497.07	597.81	202.25	
131-132	197 00		197 00	-65 40	4.98	495.15	596.96	201.26	
132-133		357 30	177 30	+1 30	5.33	494.80	594.94	196.72	
133-134	232 00		232 00	-31 10	5.59	495.68	589.68	196.86	
134-135		102 30	282 30	+4 50	3.47	492.29	586.30	193.97	
135-136	065 00		065 00	-56 00	0.70	488.85	586.63	194.26	
0 136-137		107 00	287 00	+25 05	5.08	489.18	586.84	193.68	
137-138	270 00		270 00	+7 30	6.28	484.65	587.64	195.83	
138-139		112 00	292 00	+7 40	6.44	478.47	586.88	196.65	
139-140	287 30		287 30	+0 40	9.67	472.31	588.53	197.51	
140-141		133 00	313 00	-32 10	2.25	462.80	590.29	197.63	
141-142	287 00		287 00	-27 45	3.23	461.26	591.41	196.43	
142-143		209 00	029 00	-42 30	4.38	458.44	591.91	194.92	
143-144	326 00		326 00	-22 20	5.23	459.65	594.90	191.97	
144						50,456.48	55,598.55	189.98	

Wooley Hole Cave

Side passage in 24.

13 July 1980

198-199	285	25'
199-200	270	40'
200-201	275	25'
201-202	270	45'
202-203	310	15'
203-204	290	40'
204-205	300	10'
205-206	295	10'
206-207	300	30'
207-208	305	15'
208-209	275	40'
209-210	275	20'

Waterwheel Swallet

The Gours to 22' Drop.

Jan 25th 1981

0 136-145	024 00	204 00	+22 40	0.61m	50,489.18	55,586.84	193.68	
145-146	041 00	041 00	-44 20	2.94	489.02	586.30	193.92	
146-147	103 30	283 30	+0 30	12.76	490.19	588.05	191.86	
147-148	177 30	177 30	-19 45	2.32	477.51	589.49	191.97	
148-149	005 30	185 30	+15 00	2.53	477.87	587.34	191.19	
149-150	279 00	279 00	-6 40	7.96	477.94	584.89	191.84	
150-151	106 00	286 00	+0 15	6.59	470.04	585.17	190.92	
151-152	211 30	211 30	-36 25	2.43	463.53	586.20	190.95	
152-153	357 00	177 00	-30 00	11.42	462.72	584.42	189.50	
153-154	199 00	199 00	-30 15	4.06	464.43	574.68	183.79	
0 154					50,463.70	55,571.25	181.75	

Notes

5, 1, 1.5, 6 East wall of passage ends in boulders 3.5m at 012 mag

5, 1.5, 7, 1 Little stal boss on floor of "over" route

3, 2, 2.5, 1 (looking back to 127)

Loop of det wire cemented into roof on corner.

Will, Bob

Grade 5 (C, A, F)

Variation 7°00' W (mnc) GRID N

Top of flow 4m at 186° from 129

1(4), 1, 2.5, 0.5 Top of 2.5m climb down (old dig).

1, 0.4 (WL, dam open), 0.5, 0.4

6, 8, 2 (+inlet), 2.5. 2m beyond dam. 133 to inlet Top 6.6m/+60°/125°

7, 2 (pour rim), 2.8, 3.5.

2, 1.5, .5, 2.5

136 is head of nail cemented into crack in rock shelf above sump.

2, .1, 2, 1. Squeeze at 2.5m Corner on right 0.5m on

1, 2, 1.5, .8

3, 8, 2.5, .6 2m past middle of R.H. bay ("rabbit" bones). B5-10S

1.8, 1, 1.5, 1. 140 is top of steel fence post. 1m beyond 140 is skull rift 5m/345°.

5, 1, 1.5, 5 (rift). Monochinal axis, B.50S.100

1, 5, 2.5, 1. On boulder at head of 3m drop.

4, 5, .00, .5 Edge of chamber. Discontinuous Trias dyke above 143 trends 110° B 10S. Rift begins at 2m.

4, .1, .5, .5 (looking on). Mud floor at end of rift. Passage from 143 8m/+25°/265°.

by Bob Cork, Dany Bradshaw of CEG. Grade 2-3

Variation c. 7° W (divers' compass)

Widths + lengths estimated.

Chamber

3' wide

2' wide

2' wide

6' wide First Choke

6' wide

2' wide

3' wide

4' wide

4' wide

2' wide

4' wide stops at top of 50' ladder pitch

Alan, Pete, Bob M. Grade 5 (C, A, F) Var. 7°00' W (mnc) GRID N down to 15' passage ending in choke

Nail, see above

2, 2, .8, 1.5 Floor in old sump pool. Gour 1 was at 7.5m.

7, .5, 1 (to gour 2), 1.5 In filled pothole on bend.

1.6, .1, .4, .7

3, 1.2, .5, .7

Alcove 1.5m deep E of 149. Lowest point (end of blasted sump roof) 3m on.

1, .05, .3, .4

1, 1, 1.3, .4

1m beyond gour 4, above top of 1.5m waterfall

1.8, 1, 1, 2.5 (to top of rift 6.4m deep). On top of stalagmite (below big stalactite) 1m over lip of 1.3m waterfall.

2, 1, .5, 1.5

2m beyond 1.5m smooth drop, at start of rift down to lake.

1.7, drop, 1.5, wall (looking S).

Nail head, cemented into W wall above ladder climb.

Sta	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt c
Waterwheel Swallet				22' drop to Fall Floors				Feb 8th 1981	
154-155				- 90 00	6.82	50,463.70	55,571.25	181.75	
155-156	327 00		327 00	0 00	6.65	463.70	571.25	174.93	
156									
155-157				+ 90 00	2.06	463.70	571.25	174.93	
157-158		005 30	185 30	- 18 45	6.38	463.70	571.25	176.99	
158-159	170 40		170 40	- 5 50	10.56	463.96	565.21	174.94	
159-160		335 00	155 00	+ 53 00	1.46	467.09	555.19	173.87	
160-161	176 50		176 50	- 1 00	5.73	467.57	554.45	175.03	
161						50,468.68	55,548.83	174.93	

Waterwheel Swallet to Grebe Swallet (surface)				July 1st 1981					
162-163	176 30	005 30	185 30	- 0 50	28.43m	50,473.90	55,640.36	241.28	
162-163	176 30	005 30	185 30	- 0 25	28.49	474.73	611.94	240.87	
163-164		023 10	203 10	- 1 30	24.60	480.00	583.94	240.66	
164-165	224 00		224 00	- 0 40	23.70	473.22	560.30	240.02	
165-166		016 00	196 00	- 10 40	23.50	459.01	541.33	239.74	
166-167		020 00	200 00	- 22 10	10.65	50,455.46	55,518.51	235.39	
167						453.27	508.89	231.37	

Cheddar Gorge levelling (Bore Hole valley to Piney Straight basin) August 18 1981

Rise (w)	Horiz	Horiz Σ	Notes	Rise	Horiz	Σ Horiz	Notes
1	4.85	0	Road	28	7.60	122.56	
2	4.70	4.85		29	7.43	130.16	
3	4.10	9.55		30	6.85	137.59	
4	4.09	13.65		31	6.55	144.44	
5	3.55	17.74		32	6.40	150.99	
6	3.63	21.29		33	6.25	157.39	
7	3.80	24.92		34	6.00	163.64	
8	3.45	28.72		35	5.77	169.64	5m up side of valley
9	2.95	32.17		36	5.62	175.41	
10	3.35	35.12		37	4.74	181.03	
11	3.07	38.47		38	5.70	185.77	1m up side of valley
12	3.27	41.54		39	5.70	191.47	
13	3.03	44.81		40	4.80	197.17	1.5m up side of opposite valley
14	3.94	47.84		41	4.15	201.97	confluence
15	2.86	51.78		42	3.80	206.12	
16	3.94	54.64		43	4.38	209.92	
17	3.85	58.58		44	3.70	214.30	
18	4.15	62.43		45	3.85	218.00	
19	4.26	66.58		46	3.40	221.85	
20	6.65	70.84		47	2.90	225.25	
21	5.70	77.49		48	2.30	228.15	
22	6.40	83.19		49	2.60	230.45	
23	5.65	89.59		50	2.65	233.05	
24	6.25	95.24		51	2.80	235.70	enters track here.
25	6.37	101.49		52	3.00	238.50	
26	6.75	107.86	Fence in this leg	53	3.20	241.50	
27	7.95	114.61		54	3.15	244.70	

Notes

Alan, Pete

Grade 5 (c, A, F)

Var 8°00' W (m.n.c. GRID NORTH)

/, .1, 3.2, .2

N end of chamber, waterfall.

Dam at 3.8m

1.5, .8, .3, .6

3, .3, .3, .3 On weir 1.

False floors begin at 1.5

(look down)

1, .3, .4, .2 On stal boss in floor (candle 2cm high only) by Bob's checkstones.

Bob, Will

Grade 5 (c, A, F)

Var ~~8~~ 7°10' W (m.n.c. GRID N)

see p 80.

Edge of track, W side.

Edge of track, E side.

Edge of track, E side.

Middle of top of large round corner fence post, E side of track.

Middle of top of large fence post round Grebe Sw. depression, N corner.

S edge of entrance shaft, 2.5 m above squeeze.

Pue

Abney level & 2 poles.

Rise	Horiz	Σ Horiz	Notes	Rise	Horiz	Σ Horiz	Notes
55	4.30	247.85		82	19.05	432.40	
56	4.12	252.15		83	15.10	451.45	
57	4.80	256.27		84	18.20	466.55	
58	4.70	261.07		85	20.00	484.75	
59	4.35	265.77		86	20.25	504.75	
60	3.90	270.12		87	20.85	525.00	
61	4.00	274.02		88	41.00	545.85	Col of P.S. basin.
62	3.15	278.02				586.85	
63	3.82	281.17					
64	3.45	284.99					
65	4.45	288.44					
66	5.00	292.89					
67	5.30	297.89					
68	7.05	303.19					
69	8.20	310.24					
70	7.80	318.44					
71	6.85	326.24					
72	6.80	333.09					
73	5.70	339.89					
74	5.95	345.59					
75	8.00	357.54					
76	6.90	359.54					
77	9.45	366.44					
78	12.45	375.89					
79	11.85	388.34					
80	15.10	400.19					
81	17.10	415.30					

Sta	FS	BS	Bearing	FC	Dist	E	N	Alt	Alt ^C
Grebe Swallet		entrance to dig end			October 7 1981				
166-168		020 00	200 00	- 18 00	11.05	50,455.46	55,518.51	235.39	
168-169	004 00		004 00	- 46 20	2.35	452.98	508.30	231.98	
169-170				- 90 00	2.26	452.91	509.92	230.28	
170-171		341 00	161 00	- 30 00	3.84	452.91	509.92	228.02	
171-172	152 00		152 00	- 14 30	1.83	454.33	506.91	226.10	
172-173				+ 90 00	0.82	455.33	505.45	225.64	
173-174				- 90 00	4.24	455.33	505.45	226.46	
174-175		015 00	195 00	+ 50 00	0.60	455.33	505.45	222.22	
175-176	155 00		155 00	+ 8 20	4.34	455.27	505.07	222.68	
176						50,457.51	55,501.40	223.31	

Grebe Swallet		T ₄ to other side			June 12 1982				
176-177		287 00	107 00	- 37 20	4.48	50,457.51	55,501.40	223.31	
177-178	154 00		154 00	- 19 30	3.22	461.03	500.84	220.59	
178-179		252 00	072 00	- 10 00	1.72	462.73	498.33	219.52	
179-180	158 00		158 00	- 12 20	2.59	464.25	499.07	219.22	
180-181		267 00	087 00	- 18 10	1.82	465.51	496.88	218.67	
181-182	201 00		201 00	- 24 10	2.17	467.21	497.21	218.10	
182-183		181 00	001 00	+ 28 30	1.20	466.75	495.22	217.35	
183-184	141 00		141 00	+ 7 50	5.67	466.62	496.27	217.92	
184-185		141 00	321 00	+ 7 00	1.14	470.73	492.44	218.70	
185-186	157 00		157 00	- 43 30	3.98	469.90	493.21	218.84	
186-187		268 00	088 00	+ 5 20	3.77	471.39	490.74	216.10	
187-188	260 00		260 00	+ 36 00	0.50	475.09	491.39	216.45	
188-189		277 00	097 00	+ 36 20	3.00	474.70	491.26	216.74	
189-190	002 00		002 00	+ 50 20	5.38	477.12	491.30	218.52	
190						50,476.76	494.72	222.66	

Grebe Swallet		To bottom of 30' pitch			September 26 th 1982				
Grade 5 (C, A, F)		Var. 7°30' W (m.w.c.)			Grid North.				
182-191		185 00	005 00	+ 35 30	0.55	50,466.75	55,495.22	217.35	
191-192	148 00		148 00	- 68 30	3.96	466.73	495.67	217.67	
192-193	260 00		260 00	- 37 30	2.69	467.65	494.55	213.98	
193-194		048 00	228 00	- 4 20	1.00	465.62	493.91	212.35	
194-195	134 00		134 00	- 73 40	4.24	464.97	493.15	212.27	
195-196		112 00	292 00	- 3 30	1.46	465.93	492.43	208.20	
196-197	357 00		357 00	- 49 20	2.55	464.52	492.80	208.11	
197-198		083 00	263 00	+ 10 50	1.70	464.22	494.44	206.18	
198-199	317 00		317 00	- 24 30	2.89	462.60	494.02	206.50	
199-200		052 00	232 00	+ 45 50	0.87	460.57	495.69	205.30	
200-201	235 00		235 00	- 78.40	5.61	460.14	495.26	205.92	
201-202				- 90 00	3.50	459.33	494.51	200.42	
202-203	162 00		162 00	- 22 00	2.17	459.33	494.51	196.92	
203						50,460.20	55,492.70	196.11	

Grebe Swallet		To Sidcot Shafts + YC Passage			October 2 nd 1982				
203-204		335 00	155 00	- 25 30	3.32	50,460.20	55,492.70	196.11	
204-205	149 00		149 00	- 6 50	5.44	461.79	490.16	194.68	

Notes

Bob, Will

Grade 5 (c, A, F)

Var. 6°20' W (m.u.c.) Grid North

See p 85

Rim of crater

South corner of hole in lid on entrance shaft

∞, 0.1, 0.2, 0.8

Foot of entrance shaft

3(.2), 1.5, .4, .4

Foot of steps down upper T₂ tip

Beside pulley. knot in string holding plumb-bob

.4, 1.9, .2, .3

Loop of yellow det wire cemented into roof over shaft

1.3 (S.S.1), 1.0, .1, .5

Step at foot of shaft

Below SS1 (first stone stemple)

Smoked drip point, base of last stone stemple in T₃ tip.

Alan, Pete

Grade 5 (c, A, F)

(Var 8°00' W (m.u.c.) Grid N.)

3, .5, .5, .3

Corner below T₅

Pete's Rift starts 1m on, same line.

4, .6, .7, 1

.4, 1, .3, .4

below ruckle

1, 1.3, .4, 0

corner, start of main ruckle.

1, 1, 2.5 (in ruckle), .6

between key rocks

1.5, 1.2, 2 (offshoot), 1.3

chiselled cross on S wall

.2, 1, 1.5, .3

banged squeeze is 2.15m back from sta. 184

.3, 1, 1, 1.5

.5, 1, 1.3, 1

lip of 1.5m drop at 1.3m.

2.5, 0, .6, .6

start of sand passage

1.5, .4, .6(2), .2(3.5).

Cross-rift trends 335° Mag.

scratched cross on wall at cross rift.

.2, .5 (boulders), 0, 1.

many stemple holes. Complex ruckle above, rift (unsurveyed) leads back/

1.5m up wall of deads, E side. Rift goes up 6m to N at c + 80°, too unsafe to climb, roomy.

Alan, Pete

see above.

on wall 1.5m above floor

1, .6, .5, 2 (boulder slope)

Far end of mud pool.

.5, .8, 1.5, .3

∞, .4, .5, .7

Rift 4m/080° (2nd prospect).

.4, 1, .4, .6

1.2, -, .5, .4.

.5 (ruckle), .7, .3, .3.

2.3, -, ∞, .2

Rift/drop extends 6.7m/160°, 4m/340°. Lip of 30' pitch.

Det wire loop on W. wall

Rift extends 5.7m S, 4m N. Rift 1.3m wide.

∞, 1.2, .8, .5.

Top of S end of large block on rift floor.

Alan, Pete

Grade 5 (c, A, F)

Var. 7°50' W (m.u.c.) Grid N

4 (rock jam), .5, .4, .2

roof angle passed at 0.7m.

.4, .7, 2.5 (tip wall 1.2), .3

On opposite tip wall.

STA	FS	BS	BEARING	F.C.	DIST	E	N	ALT	ALT ^c
205-206		095 00	275 00	+ 14 20	1.34	465.13	485.92	194.04	
206-207	163 00		163 00	+ 20 30	3.86	463.83	485.87	194.37	
207-208		322 00	142 00	+ 1 20	4.43	465.31	482.57	195.72	
208-209	214 30		214 30	+ 6 50	10.77	468.45	479.44	195.82	
209-210		032 00	212 00	- 15 30	3.48	463.54	469.95	197.10	
210-211	329 30		329 30	+ 13 50	17.68	462.14	466.90	196.17	
211						451.65	480.49	200.40	
204-212	020 00		020 00	- 4 00	4.30				
212-213		167 00	347 00	+ 0.97m	2.27				
213-214	310 00		310 00	+ 1.5m	1.3				
214-215	321 00		321 00	+ 27 00	7.7				
215									

Wooley Hole Cave

Link Passage, 22-23

Feb 26th 1983

211-212 R	356°	0.00	10.8m
212-213 R	022°	28 00	13.5
213-214 L	079°	27 00	8.2
214-215 R	032°	28 00	8.0
215-216 R	331°	8 00	3.0
216-217 L	002°	4 00	13.6
217-218 L	356°	9 00	11.7
218-219 L	356°	2 00	3.4
219-220 L	062°	44 00	7.0
220-221 R	056°	38 00	6.0
221-222 R	045°	12 00	1.9
222-223 R	140°	0 00	3.8
223-224 R	082°	0 00	5.4
224-225 R	112°	0 00	2.9
225-226 R	100°	0 00	9.1
226-227 L	105°	0 00	7.3
227-228	079°	0 00	3.9
228-229	050°	0 00	3.7

229

Goche Swallet

First and second deep digs

October 1st 1983

205-216	164 00	344 00	- 29 30	0.48			
216-217	121 30	121 30	- 19 00	1.36			
217-218			- 90 00	3.86			
218-219	010 30	190 30	- 18 40	3.55			
219-220	229 00	229 00	- 27 30	1.56			
220-221			- 90 00	5.35			
221							
210-222	328 30	148 30	- 18 40	4.52	462.14	466.90	
222-223	119 00	119 00	- 22 40	3.95	464.81	463.55	
223-224			- 90 00	1.27	468.18	462.18	

NOTES

Drill hole above stream sink

4, 1, 1.3, (3.5), .2

6(10), .4 (top of tip slope), 1.2, .2 (widens to 1).

4.5, 1.3, /, /. VC passage starts abt 2. 208 is on middle boulder in wall round boots

208 - middle SS1 = 1.6m SS1 is 5.9m deep, bottom 7.3m below 208

208 to near edge SS2 = 5.6m, 7.2m to far side. SS2 is 14.5m deep below lip of near edge

.6, .3 (boulders), .9, .6.

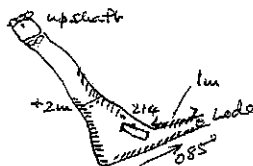
1.5, 1, 1.5, 1

210 is top of large high rock. Large mud-crack pit starts at 1, ends at 4, 2m deep.

211 on end wall above choke, 1.5m up, marked by scratches.

210 to offshoot end 6.05m / 134° / -22°. Rift extends 2m further.

Tria dyke



3, -, 2, .2 Entry into Lode Chamber.

4, .5, .5, .5 Below old collapsing shaft

Copied from survey by P. Glanville & J. Dutton, sent by Oliver Lloyd.

2, 0, ?, 15

211 is line below on edge of sump pool, downstream 22

2, 1, ?, 15

Edge of sump pool still.

.5, .5, 1, 3

Caion on boulder slope

.5, .5, 1, 2

Caion on boulder slope. Passage turns L into inclined bedding.

2, 1, .5, 3

Small caion. Roof is Ch Ls, floor is Dol Cong.

216 is cross on roof. Inclined rift continues in same line as before

217 is cross on roof. Inclined rift continues.

Inclined rift continues.

219 is cross on roof. Inclined rift continues c. 40m in same line.

220 is caion halfway up slope.

221 is caion at unconformity. Passage levels off.

.2, .3, 1.5, .5

222 is caion

1, 1, 2, 0.

223 is rock on R on a ledge. Just beyond is a squeeze in a small rift.

.5, 1, 1, .5

.2, .5, 1.5, .5

225 is boulder stuck in mud.

Muddy crawl.

Crawl continues as above

Crawl continues as above, but over boulders instead of mud.

Caion

229 is small pocket above tip of boulder (15cm) at head of pitch.

Alan, Pete

Grade 5 (c, a, F)

Var. 7°00' W (w.m.c.) GRID N

see above

.8, .7 (dam), /, /.

.1, /, /, / cemented wire loop in roof over shaft.

1, .3, .4, .3 Narrow bit & 1m drop at 1.5.

.5, 1, .2, .8. In rubble.

.5, /, .5, .5 On W wall over final shaft, end of sloping stal crust mark

/, .3, /, / 1.5m going E to end.

see above

.2, 1, .7 (to wall, 2 to rock), .2

1.5, /, .2, .2 Wire loop cemented to overhead stal floor.

Notes

/, .3, .1, .4.

2, .1, .5, .1 1m alcove at bend, just beyond end of overhead stal floor

3.5, .1, .7, .3, .6 (looking S). Tributary rift 3.0/285°, rising at 10°.

Alan, Pete

Grade 5 (C, A, F)

Variation 7°00'W (m.n.c) GRID N.

see above

-, .1, .3, .6 Pool starts at 1m, finishes at 2.7m Station is 0.1m above floor.

1, .1, .3, .1, .6. Station is at old mud floor level, at start of "bedding plane".

.5, .6, .2, .5. Climb up starts at 1m.

1, .8, -, -. On rock, later removed.

-, -, 1, 1. On rock pile by "line of 4"

3, .1, .5, .3, .2.5 On path in chamber

2.5, .1, .2, 0, .9 (looking on) 1m to nose of sapped block, 3m to end of peephole. ^{⊙ is drillhole in E wall.}

Alan, Pete

Grade 5 (C, Watkins, F)

Variation 8°00'W (m.n.c) GRID N

Top of drop

-, .1, 0, .7 on step

.5, .8, .2, .3 in alcove

4, -, .9, 0 (looking S) candle stuck to wall below shaft up to Pete's Peephole

-, 0, 1, .4 on ledge

.4, 1, .5, .5

on rock point on W wall, in old ruckle

1, 0, 0, 1 1m back from top of former 10' drop

2.5, 1, .3, .2 just beyond Showerbath

on rock point (boulder) beneath little grotto.

1, 2, .4, .3 mid-air (knot on plumb line)

.6, .1, .8, 0, .4 wall of thin rift.

1.5, 1.2, 3.5 (Sag Rift), .3 at junction

Wire loop in cement over rift end.

Bob W, Pete W.

Grade 5 (C, Watkins, F)

Variation 8°30'W (m.n.c) GRID N

Drillmark on cliff face

2m from rock face

On floor 1m inside entrance

Near base of slope up to gate 2.

0.5m before start of creep

Top point of taped block

From 127 passage goes c 5m at 039 and drops 2.5m approx. End is accessible from entrance via low passage!

129 = 125

131 = 123

133 = 121

135 = 119

Waterwheel Swallet

False floors to sump pool

27 Nov 88

STA	FS	BS	Bearing	FC	Dist	E	N	ALT	Alt C
161-247		351 00	161 00 171 00	-0.47 -5 00	5.33 5.35			174.96 (+3cm candle!)	
247-248	175 00		165 00 175 00	-1.86 -12 20	8.49 8.69			174.49	
248-249	166 00		156 00 166 00	level	4.35 c. 4.5			172.63	
249					18.3m			172.63	

WWS: L 1180' VR 216' (vic. Bony C)

L = 329m + 30 in sump Total length WWS is 360m = 1180', depth 65.74m

min 171.8 in sump

Grebe Swallet

Sag Ritr to current end

6 June 1990

246-250		335 10	149 40 155 10	+0.26 +3 30	4.30 4.30			180.08	
250-251	126 00		120 30 126 00	-0.46 -25 00	0.99 1.09			180.34	
251-252				-0.41 -90 00	0.41 0.41			179.88	
252-253	151 40		146 10 151 40	-0.72 -7 30	5.59 5.64			179.47	
253-254				-1.33 -90 00	1.33 1.33			178.73	
254-255		327 30	142 00 147 30	-0.95 -1 30	2.10 2.10			177.40	
255-256	161 00		155 30 161 00	+0.14 +7 00	1.11 1.12			177.35	
256					21m (incl. sump passages)			177.49	

Total Grebe is 310m = 1017'

Will

Grade 5 (c, Watkins, F)

Variation 10°00'W (m.c.)
GRID N.

Notes

page 85

1.6, .9, ~~1.2~~ (dam top, dam 0.6 high), .3, .6. Overhead tip begins at 2.4 (0.3 below 247), ends at 6.6. Vertically over dam 3, 0.3 beyond end of floors.

1, .1, .2, .2. On stone in water at bend

= 215.7'

End of Piggott sump pool. Narrow fissure continues 0.6 m, same line.

Will

Grade 5 (c, Watkins, F)

Variation 5°30'W (m.c.)
GRID N.

see page 88

.3, 2, 1, .2

Lip of 1.5m drop onto gravel washing pool

.8, 2, .8, .7

Above soakaway into 14' rift. Det wire loop.

(drippy ch)

2.5, -, .1, .5

Det wire loop on edge of roof rock, 0.5m beyond + 0.05m above the end of the cement floor
On 3rd step down

.2, 1.5, .3, .2

Above bottom step.

0, 1.2, .4, .7

Det wire loop cemented into crack between roof rocks, above face.

Passage continues 3m at ¹³⁰135° mag to choke.