

ATTBOROUGH SWALLET 5/9/93.

T HUGHES
T JARRATT

L and R looking along direction of leg.

COMPASS CALIBRATION: crown of jtn. to Pen Hill
mag = 178° MAG
= 175° GRID = 174.5° TRUE

LEG	DIST	BRG	CLINO	H DIST	ΔE	ΔN	ΔZ	E	N	Z	STN	L	R	U	D	notes	
<u>stream passage</u>																	
17-16	5.20	010	-23	4.787	+0.831	+4.714	-2.032	107.261	103.849	135 (-15.603)	17	2.5	1.8	0.7	06/15	on rock centre of passage only step in floor.	
16-15	3.70	062	-31	3.172	+2.801	+1.489	-1.906	108.092	107.849	-17.635	16/8b	0	2.7	0.5	1.8	on lip of dug connection to big passage	
15-14	4.10	002	-19	3.877	+0.135	+3.875	-1.335	110.809	109.334	-19.550	15	2.0	0	1.7	0.5	R Wall	
14-13	3.85	68	-32	3.265	+3.027	+1.223	-2.040	110.940	113.197	-20.892	14	0.4	2.2	0	0.7	roof at 'silt trap' +0.9 at 15 to 15.	
13-12	3.90	19	-8	3.862	+1.257	+3.652	-0.543	113.876	114.416	-22.942	13	3.3	0	0.4	0.4	R Wall ab rift to left.	
12-11	6.45	309	+1	6.449	-5.012	+4.058	+0.112	115.095	118.057	-23.488	12	0.8	0	0.5	0.2	R Wall narrows / 0.6 high at mid leg.	
11-6	6.25	307	-30.5	5.385	-4.301	+3.241	-3.172	109.933	122.103	-23.376	11	0.9	0	0.3	0.9	sick of ch/stream passage R Wall	
<u>large lake</u>																	
6-8	7.75	172	+37	6.189	+0.861	-6.129	+4.664	105.503	125.334	-26.564	6	0.8	0.9	2.5	0.1	rock on floor ab bottom of chamber. (SURVEY STN PT)	
8-9	11.20	195	+28	9.889	-2.559	-9.552	+5.258	106.339	119.187	-21.923	8	2.3m	1.8	1.4	1.65	L wall ab annex & low passage	
9-10	3.30	181	+32	2.799	-0.049	-2.799	+1.749	103.780	109.635	-16.665	9	1.6	1.6	0.9	0.4	rock at choke in centre of passage	
8-8a	8.95	178	+24	8.176	+0.285	-8.171	+3.640	103.731	106.836	-14.916	10	1.6	0.6	1.2	0.3	rock choke (solid) (holes to +1.5 on top)	
8a-8b	3.55	154	+11	3.485	+1.528	-3.132	+0.677	106.616	110.991	-18.301	8a	1.2	4	0.4	0.3	resh ab connecting passage	
* 6-7	3.80	98	+17	3.634	+3.599	-0.506	+1.111	108.098	107.850	-17.627	8b					in streamway (16) (no close traverse)	
* 7-5	1.65	161	-1	1.650	+0.537	-1.560	-0.029	109.304	124.839	-25.376	7	0.6	chamber	2	0.7	ridge of boulder (undercut L wall)	
<u>Rocky stream crand.</u>																	
* 5-4	4.40	337	-48	2.944	-1.150	+2.710	-3.270	109.871	123.312	-25.403	5	2.8	0.4	ch edge	0.8	1.8	edge of rock ab waterfall (to close traverse)
* 4-3	2.00	337	-14	1.941	-0.758	+1.787	-0.484	108.785	126.080	-28.447	4	0.3	0.6/ passage	0.5	0	floor ledge (to 0.4 high)	
3-2	2.90	98	-25	2.628	+2.602	-0.366	-1.226	108.069	127.905	-28.898	3	1.0	0.2	0.6	0.3	Rock on floor edge of ch	
2-1	3.85	82	-21.5	3.582	+3.547	+0.499	-1.411	110.671	127.539	-30.124	2	1.0	0.2	0.6	0.3	rock on floor	
6-3	4.37	46	-30	3.784	+2.722	+2.629	-2.185	114.218	128.038	-31.535	1	0	0.5	0	0.3	stone wedged in roof. 2m to end (low) (1.2 before 1 passage known)	
5-5a	6.30	41	+15	6.085	+3.992	+4.592	-1.631	108.073	127.907	-28.900	3					br L.H. tube / sub traverse. (to close traverse)	
<u>Muddy crand</u>																	
5-5b	4.80	8	-30	4.157	+0.579	+4.117	-2.400	113.863	127.904	-27.034	5a	0.1	0.3	0.5	0.3	mud/sand above (connects to 5b-5c R wall)	
5b-5c	3.30	54	-10.5	3.245	+2.625	+1.907	-0.601	110.450		-27.803	5b	0	1.2	0.4	0.3	L wall (-connection to 4-5 leg)	
5c-5d	0.40	324	0	0.40	-0.235	+0.324	-0.9	113.075	129.336	-28.404	5c	0.8	1.0	1.0 ²	0.9	Rock on Right wall	
5d-5e	2.80	71	-8	2.773	+2.622	+0.903	-0.390	112.840	129.660	-29.304	5d	0	0.3	0.5	0	left wall / floor cur (offset + vent drop)	
5e-5f	2.30	32	-8	2.278	+1.207	+1.932	-0.320	115.462	130.563	-29.694	5e	0.4	0	0.3	0.2	R wall (muddy floor)	
5f-5g	3.30	101	-1	3.30	+3.239	-0.630	-0.058	116.669	132.495	-30.014	5f	0.5	0.9	0	0.3	roof	
5g-5h	2.40	53	-15	2.318	+1.851	+1.395	-0.621	119.908	131.865	-30.072	5g	1.0	0.7	1.0	0.6	rock on shelf on bend in chamber*	
5h-5j	1.8	27	-39	1.399	+0.635	+1.246	-1.133	121.759	133.260	-30.693	5h	0.6	0	0.4	1.0	R wall ab end of chamber	
								122.394	134.506	-31.826	5j	0.4	0.4	0.5	0	floor lip	

Survey abandoned (≈ 10m to end) to

- ① Established 6
- ② " 5 and 3

* change sign of error correction due to change in direction of traverse loop leg.

