(35816) Wt.46455/242 120,000 3/48 A.& E.W.Ltd Gp.685

O.S 355.

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse TRAVERSE C *Computer* *Date*

Total Length 39.49 *Error*

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	588.72 E. 588.05	232.64 N. 232.77
C1		-10'30"	161 30			+	−		
C6	145 45		135 15	4.14		31730	94832	589.37	228.84
C7	169 30		159 00	3.31		+ 35837	− 93358	590.55 (1.09)	225.75
C8	132 30		122 00	1.25		+ 84806	− 52992	591.61 (2.13)	225.09 (4.99)
C9	144 30		134 00	10.79		+ 71934	− 69466	599.38 (7.72)	217.59
C10	169 30		159 00	4.48		+ 35837	− 93358	600.98 (1.24)	213.41 (3.6)
C11	150 30		140 00	12.63		+ 64279	− 76604	609.10	203.14
C11a	0		0	0					
C12	178 30		168 00	2.89		+ 20791	− 97815	609.70	200.90
C13	176 30		166 00	8.31		+ 24192	− 97030		
C14	0		0	0					
C15	203 00		192 30	6.97		− 21644	− 97630		
C16	203 30		192 30	10.06		− 22495	− 97437		
C17	199 30		189 00	6.30		− 15643	− 98769		

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse TRAVERSE C. *Computer* [illegible] *Date* 6-5-49.

Total Length ..... *Error* .....

BEARINGS

1 Magnetic variation -10° 30'

2

3

4

198 5.20 1 30902 95106 997.78 998.08

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. 588.72	N. 232.64
C_1		-10, 30						~~996.57~~	993.13
C_6	172 25		135 15	4.137		+.70404	-.71019		
C_7	169 30		159 00	3.308		+.35837	-.93358		
C_8	132 30		122 00	1.252		+.84805	-.52992		
C_9	144 30		134 00	10.790		+.71934	-.69466		
C_{10}	169 30		159 00	4.486		+.35837	-.93358		
C_{11}	150 30		140 00	12.625		+.64279	-.76604		
C_{11a}	00 00		349 ~~30~~	0000		-	-		
C_{12}	178 30		168 00	2.887		+.20791	-.97815		

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TRAVERSE ABSTRACT Traverse..... Traverse C.....

Date..... Angle Book..... Sketch & Details of C. of S. Pegs on Reverse Side

Station	To		1st Round 352 25 "	2nd	Mean 172 25 "	Measured Dist. ft	R.P. Check	Vertical Angle ° ' "
c1	Stn C 6	365 B	~~325 45~~		~~45 45~~	15.75	– ↘	30 30
c6	c7	B	349 30		169 30	13.25	– ↘	35 00
c7	c8	B	312 30		132 30	7.75	– ↘	58 00
c8	▲ c9	A5 B	324 30		144 30	38.75	– ↘	24 00
c9	▲ c10	A6 B	349 30		169 30	19.50	– ↘	41 00
c10	c11	Cut to Mud Pass. B	330 30		150 30	45.00	– ↘	23 00
c11	c11a	B	0		0	1.00	+ ↑	90 00
c11a	▲ c12	△ 1ST Grotto. A8 B	358 30		178 30	9.50	+ ↑	4 30
c12	c13	B	356 30		176 30	31.50	– ↘	30 00
c13	c14	B	0		0	13.~~50~~ 25	– ↓	90 00
c14	c15	B	23 00		203 00	24.75	– ↓	22 30
c15	c16	B	23 30		203 30	36.00	– ↓	23 30
c16	c17	B	19 30		199 30	21.00	– ↓	10 00

O.S.O. 45,500 10-46

Observer..... Abstracted by..... Length of Tapes .....

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse Traverse C *Computer* *Date*

Total Length 39 *Error*

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. 588.72	N. 232.64
C1						+	−		
C6	172 25		161 25	4.137		31868	94786	590.02	228.69
C7	169 30		158 30	3.308		36650	93042	591.21	225.59
C8	132 30		121 30	1.252		85264	52250	592.28	224.93
C9	144 30		133 30	10.790		72537	68835	600.05	217.43
C10	169 30		158 30	4.486		36650	93042	601.67	213.24
C11	150 30		139 30	12.625		64945	76041	609.81	203.54
C11a	—			0					
C12	178 30		167 30	2.887		21644	97630	610.40	200.70
								−.20	−.27

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TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1

2

3

4

Station	~~Bearing~~ Va.	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. ΔE	N. H.D.
						−		823.2	
C1 C6	-30 30			4.80	15'75'	50754	86163	815.2	4.14
						−			
C7	-35 00			4.04	13.25'	57358	81915'	807.6	3.31
						−			
C8	-58 00			2.36	7.75'	84805'	52992	801.0	1.25'
						−		2.5	
C9	-24 00			11.81	38.75'	40674	91355'	783	10.79
						−		69.7	
C10	-41 00			5.94	19.50	65606	75471	772.5	4.48
						−		2.1	
C11	-23 00			13.72	45 00	39073	92050	754.9	12.63
						+		3.1	
C12a	+90 00			0.30	1.00	1.0	0	755.9	0
						+		3.8	
C12	+4 30			2.90	9.50	07846	99692	758.6	2.89
						−			
C13	-30 00			9.60		50000	86603		8.31
						−			
C14	-90 00			4.04		1.0	0.0		0
						−			
C15'	-22 30			7.54		38268	92388		6.97
						−			
C16	-23 30			10.97		39875	91706		10.06
						−			
C17	-10 00			6.40		17365	98481		6.30

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1

2

3

4

Station	~~Bearing~~ Va'	Corr.	Corrected Bearing	Distance FEET	~~Cos.~~ V.A. Mid Ords.	Sine	Cosine	E.	~~N.~~ H.D.
						+ −	+		
C1 - C6	30° 30'			15·75	4·801	·50754	·86163		4·137m
						+ −	+		
C6 - C7	35° 00'			13·25	4·039	·57358	·81915		3·308m
						+ −	+		1·252m
C7 - C8	58° 00'			7·75	2·362	·84805	·52992		~~4·107m~~
						+ −	+		790m
C8 - C9	24° 00'			38·75	11·811	·40674	·91355		10·[illegible]m
						+ −	+		4·486m
C9 - C10	41° 00'			19·50	5·944	·65606	·75471		~~14·717m~~
						+ −	+		12·625m
C10 - C11	23° 00'			45·00	13·716	·39073	·92050		~~41·422m~~
						+	+		
C11 - C11a	90° 00'			1·00	·305	1·00000	0·0000		0·000m
						+	+		
C11a - C12	04° 30'			9·50	2·896	·07846	·99692		2·887m
						+ −	+		
C12 - C13	30° 00'			31·50	9·601	·50000	·86603		8·315m
						+ −	+		
C13 - C14	90° 00'			13·25	4·039	1·00000	0·00000		0·000m
						+ −	+		
C14 - C15	22° 30'			24·75	7·544	·38268	·92388		6·970m
						+ −	+		
C15 - C16	23° 30'			36·00	10·973	·39875	·91706		10·063m
						+ −	+		
C16 - C17	10° 00'			21·00	6·401	·17365	·98481		6·304m

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TRAVERSE ABSTRACT

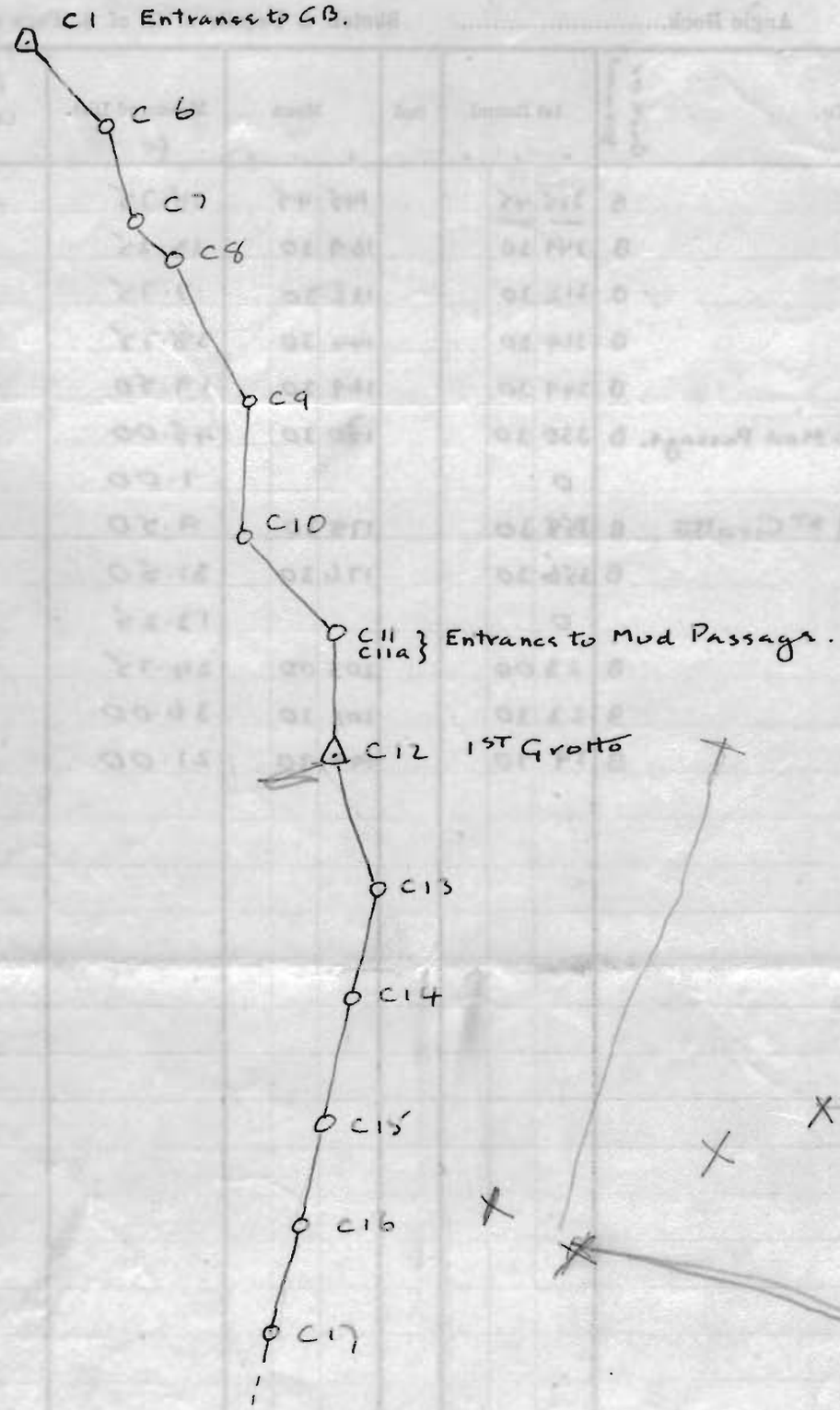
Traverse GBC

Date..... Angle Book..... Sketch & Details of C. of S. Pegs on Reverse Side

Station	To		Back or forward	1st Round ° ′ ″	2nd	Mean ° ′ ″	Measured Dist. ft	R.P. Check	Vertical Angle ° ′ ″	
C 1	C 6		B	325 45		145 45	15.75	— *	30 30	
C 6	C 7		B	349 30		169 30	13.25	—	35 00	
C 7	C 8		B	312 30		132 30	7.75	—	58 00	
C 8	C 9		B	324 30		144 30	38.75	—	24 00	
C 9	C 10		B	349 30		169 30	19.50	—	41 00	
C 10	C 11	Ent to Mod Passage.	B	330 30		150 30	45.00	—	23 00	
C 11	C 11 a			0			1.00	+	90 00	
C 11a	C 12	△ 1ST Grotto	B	358 30		178 30	9.50	+	04 30	
C 12	C 13		B	356 30		176 30	31.50	—	30 00	✓
C 13	C 14			0			13.25	—	90 00	
C 14	C 15		B	23 00		203 00	24.75	—	22 30	✓
C 15	C 16		B	23 30		203 30	36.00	—	23 30	✓
C 16	C 17		B	19 30		199 30	21.00	—	10 00	✓

O.S.O. 45,500 10-46

Observer..... Abstracted by..... Length of Tapes .....


C1 Entrance to GB.
C6
C7
C8
C9
C10
C11
C11a
Entrance to Mud Passage.
C12 1ST Grotto
C13
C14
C15
C16
C17