

for a ladder. ~~It~~ (≈ 10 feet)

② If you go behind the snow lump (a human size gap ≈ 2 Naylor's) you reach a big dead wedged in the rift. Peering down I could see a ~~ledge~~ ledge about 15 ft below which needed a ladder. Beyond this was a huge abyss! Jan came ~~went back to camp~~

down and I spent a happy few minutes hurling rocks down the 'hole'. Jan timed on his watch. ≈ 3 seconds of free drop. followed by rattling round with some quite long pauses for another 7 seconds. I then stepped back from the edge and demisted my glasses. Decided that I required a line to protect me traversing out over the hole, so due to complete lack of natural we slung a rope around the huge dead in the roof above us.

Now spent ages wondering what to do. Unfortunately it is virtually impossible to rig a free hang all the way, - the walls slope so that you touch after ≈ 40 feet. Also something is sticking out ≈ 35 ft down. Rigging the top will be tricky as there are no

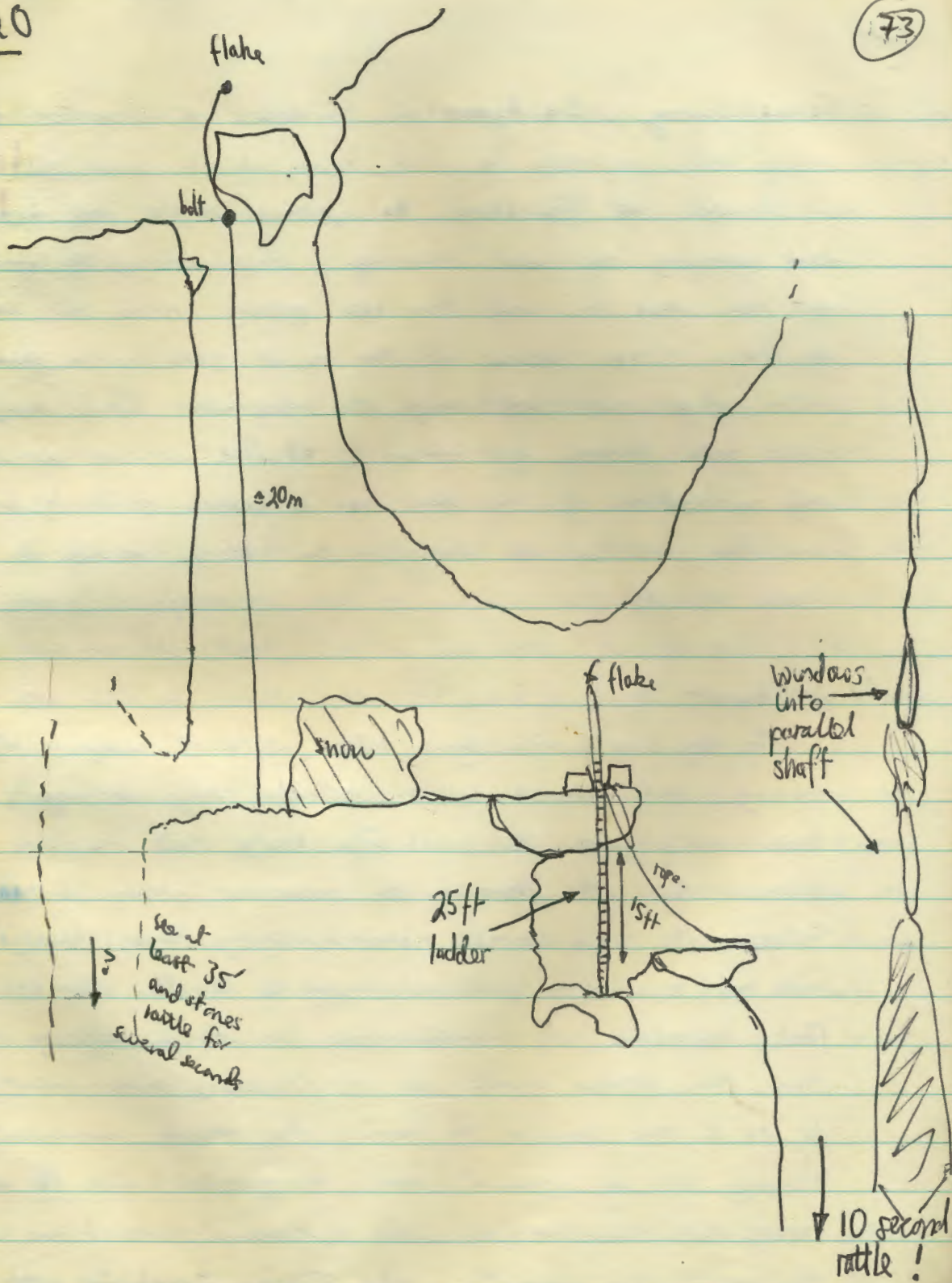
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naturals - needs bolting. The rock is not too
bill - one side covered in calcite, the other
~~is~~ veined heavily. Also in order to get the
best hang a long traverse out is required.
- not too bad as there are some small ledges,
≈ 10 feet out, the rock is better on the right
hand side, and maybe a 'Y' hang across
the rift would give the best rig. Another
poss, is to traverse right across to where
another parallel hole is visible which may
give a ~~bit~~ better hang. Rocks hurled
into the parallel shaft meet the first one
≈ 60-70 ft down, and rattle onwards
etc.

Eventually ran out of time so didn't whang
a bolt in, but left it rigid waiting for
a suitable loony to descend.

F20

(73)



(24)

Ground Survey 3rd August S. Coale H. Winchester A. Riley

Arrived at Top Camp the previous night and hoped to start surveying the next morning. Unfortunately, the mist and rain closed in and there was nothing to do but hunker in the tents. I was pleased at this as it gave me a chance to catch up on sleep lost during the mega-drive down through France with Richard and Sarah. El Tefe was not pleased; the only achievement of the day was a cairn built by himself and Jan late in the evening - this became known as Steve's Cairn or C2.

Sat. 4th August

The day was marginally better, at least early in the morning, and for a respite in the early evening. We built another cairn (C4), El Tefe having built one some time immediately after dawn. We measured sloping distances between the main cairns, which involved Steve chugging off with a 50m tape and me hanging on to the other end. Took declinations and inclinations in a web of confusing readings. Steve then bombed around the F7 (Perdices) area shouting for me to take readings to him. This became somewhat amusing as he appeared and disappeared with the mist swirling round us. Gave up when I found I couldn't see him at all; could only hear the oaths drifting through the mist.

Went out for one last barbarous session at about 5pm-7pm and measured two more sets of distances, took a few bearings. El Tepe, in enthusiastic mood, bombed off to F14, 15, 16 to do likewise.

Sun 5th August.

El Tepe went down to see the action at Ario, leaving me to carry on. Started off by building a new cairn (C5) which fell down once and is now extremely wide at the base, narrow at the top, and critically unstable. It overlooks bog alley and the base of the depression and so provides a basepoint for that area to the West; it is also visible from the other 4 cairns.

Took lots of readings from C5, and was then joined by Andy. We measured three legs from C5 to C3, C4 and C1.

Andy plomped a straight furrow between cairns, leaving me in progressively more precarious positions on slabs of limestone. It was a session of meticulous measurement, with inclinations taken on each someke leg to overcome the problems of the irregular terrain.

I then started working out bits of information, which involved selecting bearings and back-bearings and doing a quick sprint round the cairns.

Mon 6th August

Under instructions from Andy, calculated horizontal distances from sloping distances, then vertical distances. I coped with the

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right-angled triangles but had forgotten the existence of the sine rule for other triangles, so calculation of distances from points other than eastern had to wait until 2 engineers and a physicist could remember it between them. Teshya ventured off into the cosine rule before being shouted down by popular opinion. I spent many happy hours drawing triangles, while enjoying the first day of sunshine up here in the mountains. Attempted to put points on paper but only a rough job as yet, until X and Y coordinates can be calculated.

Tues 7th August

Another day of sunshine, but had to hide from it this time because of sunburn. On to the X, Y, Z coordinates until interrupted by Andy and Jan, when we went off to explore F20, and I took yet more bearings and inclinations from Andy's new caves. Still got lots more calculations to do, and need to redraw points on to a more appropriate scale on the graph paper. I have no bearings/inclinations for F3, F4, F9, F17 (bearings but no incs), F18, F19, F21, F23, F27.

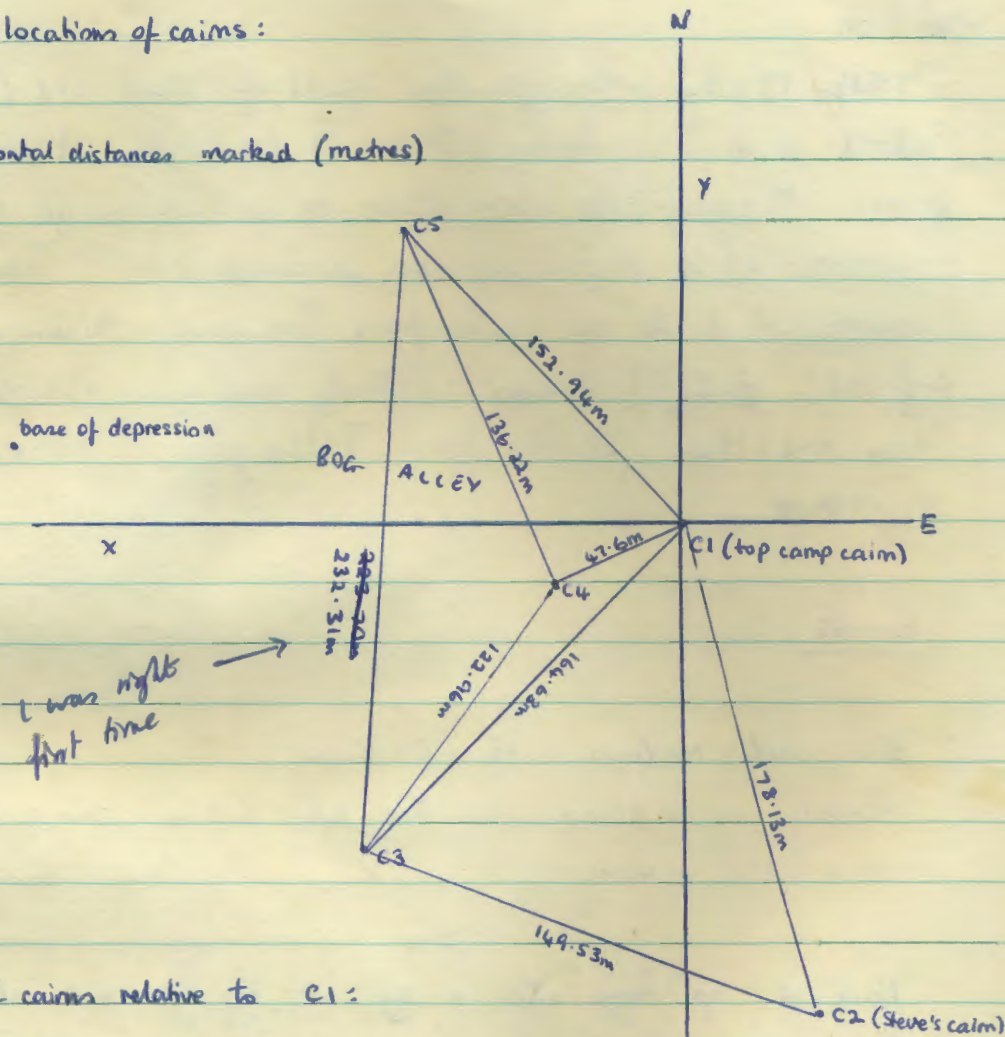
I have only one set for ~~F10~~, F13, so cannot locate them. I have adequate info for all other caves F1 - F28. I am going rapidly through B1 Tife's notebook.

I understand from Ian that F3 and F4 are two holes about 50 metres down dog alley which were never painted; of not significant dimensions; can be considered lost and numbers reallocated.

These are
Parker's markings
on log book

Approx locations of cairns:

Horizontal distances marked (metres)



Location of cairns relative to C1:

	X	Y	Z
C2	26.79	-176.4	+57.88
C3	-110.82	-118.84	+20.24
C4	-43.48	-19.37	-0.5
C5	-112.76	103.32	-15.27

(78)

Wed 8th.

~~Misty~~ Misty with periodic burst of rain and (rare) sunshine
Fostered a.m. Andy retreated to Los Lagos. I survey leg at lunchtime
p.m. Magnificent solo attack on La Verdelluenga culminated in
success. It is, in fact, an easy scramble for the Tascadero, the
young col to its W visible from Top Camp. View was about 20 yds
but that's plenty for snails. Actually I did get a glimpse down towards
Ciri and I think the new form Taltajo was probably much more
impressive.

Fri 9th.

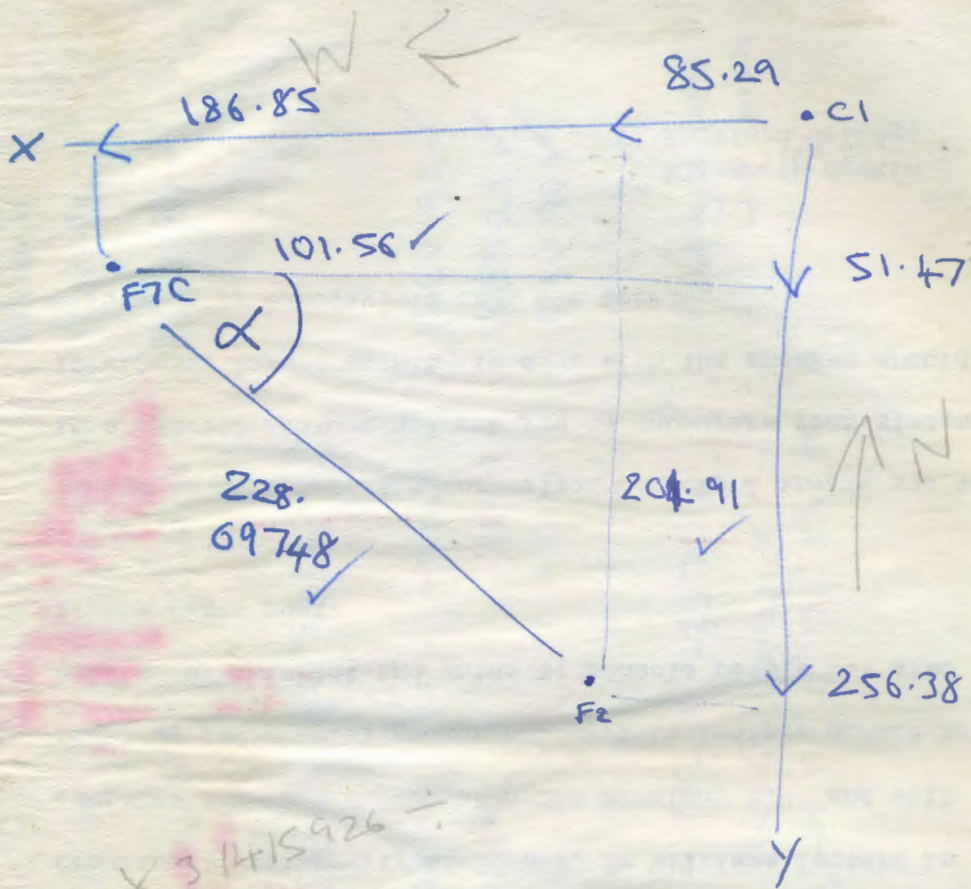
Ario met readings at 0935 am

Rainfall = 0.20mm Min temp 6.9°C Max 10.3°C

Mist. Vis ~ 40m.

Back at top camp after a day at Los Lagos and into Lagos
for a large shopping trip. Intended to get back last night
but, not having left Lagos until 8pm, I wimped out and
stayed at Ario. Saw nothing of it as I arrived by moonlight
and left with visibility at ~20m, although Steve kindly
pointed out the sights behind the mist. Joined fairly soon
at top camp by Jan who picked up his gear and went back
off to Ario with Steve to descend the great pit. Ian and
Phil Duncan arrived early afternoon 'Where's the cave?' said

Phi? It's easy to point out from camp but looks totally different in the mist-filled gullies. Three of us, laden with ropes and gear, took an hoer to find the wretched thing. I then went back via F7A-0 to check bearings because I can't get F7 to work at the moment. I couldn't take bearings from mischievous caves on the ridge because of poor visibility. Lestyn picked up his camp gear, and I nixed life and limb with the petrol bomb, some stove, to prepare a meal for hungry caves.

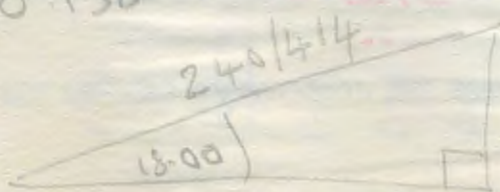


$$180 \times 3 \div 15926 \div$$

$$\alpha = \sin^{-1} \frac{204.91}{228.69748}$$

$$= 63.635507^\circ$$

80.138



$$\cos \alpha = \frac{H}{L}$$

$$\cos^{-1} \frac{L}{H} = \alpha$$

E N metres

F2 X Y
 -85.29 -256.38

Z
 +51.94

Altitude
 1939.94 ✓

F7C -186.85 -51.47

-22.19

1865.81 ✓

Rel to c1 (at an altitude of 1888 m)

F7A -208.31 -28.80

-37.08

1850.92 ✓

F7B -193.40 -44.06

-28.79

1859.21 ✓

F7D -180.92 -56.24

-21.14

1866.86 ✓

Horizontal distance F2 - F7C = 228.70 m ✓

Sloping distance =

Bearing F7C → F2 = 153.64 degrees ✓

Vertical distance F7C → F2 = 74.13 m ✓

240.4111
 360
 154
 206

3 legs
 F7C → F2 } L = 80.138 m
 I = 19.00°

D = 153.64°

(80)

11/8/84

F 20 continued
(5)

Phil Dancer, Jan Haythorn

The short ladder pitch rigged by Andy and Jan places you in a rift which is traversed to a give a ≈ 35 M free hang down to a "saddle" shaped piece of rock with drops on either side. A rebelay gave another free hang over the ~~other~~ side of the saddle of ≈ 55 m down a spectacular shaft into a snow plug. (The other side of the saddle may be explored by future parties.) From the snow plug we explored 2 routes, one ending in a ≈ 12 M drop onto another snow plug with a route ^{apparently} leading off. Strong draughting in was noted. The other route led through a wide crack to the head of a long shaft estimated at ≈ 60 m - this route didn't appear to be snow plugged. Incidentally, how does one plait a 180 M rope to give 10 strands? ~~a~~ without wearing another rope into it? an interesting mathematical puzzle, even more