OU Cave Club
1986 Expdn
Top Camp Log

Thursday 10/7/86.

Day Two of Base Conjuntao.

[Day one devoted to Carrys up by Fred, Phil, Mel, Steve, Neil, Dave, Johnx, John, Mike, Paul, Dave, Roy, Martin
Totally shattering, despite our early wake up. Started at 9.00, and took till 2pm to get here by the Aria cat-across route. Foggy at Lagar but blazing sunshine up above 500m meant that some people found their legs didn't work. Possibly their exertion on the ferry + the luxury coach from Santander had something to do with it.
John C. + Roy stayed overnight.]

Day two started with mega-eliminator walk up lead by Fred. So MEGA was it, taking longer than the Aria route + making everyone but Fred + Martin totally + utterly + unspeakably FUCKED. Fred + Martin of course went straight back down for a second carry.

Steve, Mel + Roy rigged in Ridge
Phil, Mike + John C rigged in FRO

*** THE RIDGE CAVE STORY ***

by Steve

We had left our kit at the entrance, as the mega-vile-walk up ended up so high that we descended to Ridge.

Then.....

We took quite a lot but owing to recollection of pitch lengths rather than total rope length, was all a bit short. As a result, ropes intended for Borborygmic ended up being used higher up.

Got as far as rigging rope down no-name 20m to Needle Count, in a leisurely 5½ hour trip.

What is down there:

Entrance 120m, 60m rope
Bottom of Axolotl. 15m rope
Top of 20m. 25' ladder, 25m rope,
lots of rigging gear, but only 1 R.P.

What needs doing.
Rig to Big Beluga ...

Alright 1) longer rope (20m true) on 1st pitch.
(Frees 15m rope (labelled as 20m)
2) Shorter rope (10m) as traverse line to D.D. (Frees 15m rope)
3) Short rope for Axolotl
Short rope for swing pitch (15m, 10?)
Bolt for swing pitch.
(Frees 35m rope)

Carrying the 60m in should do Bombs I + II, with the ladder - the 15m from (1) will do Bomb III, the 35m from (3) will do Weatle Station!

;; Hey Presto!! Have a nice day.

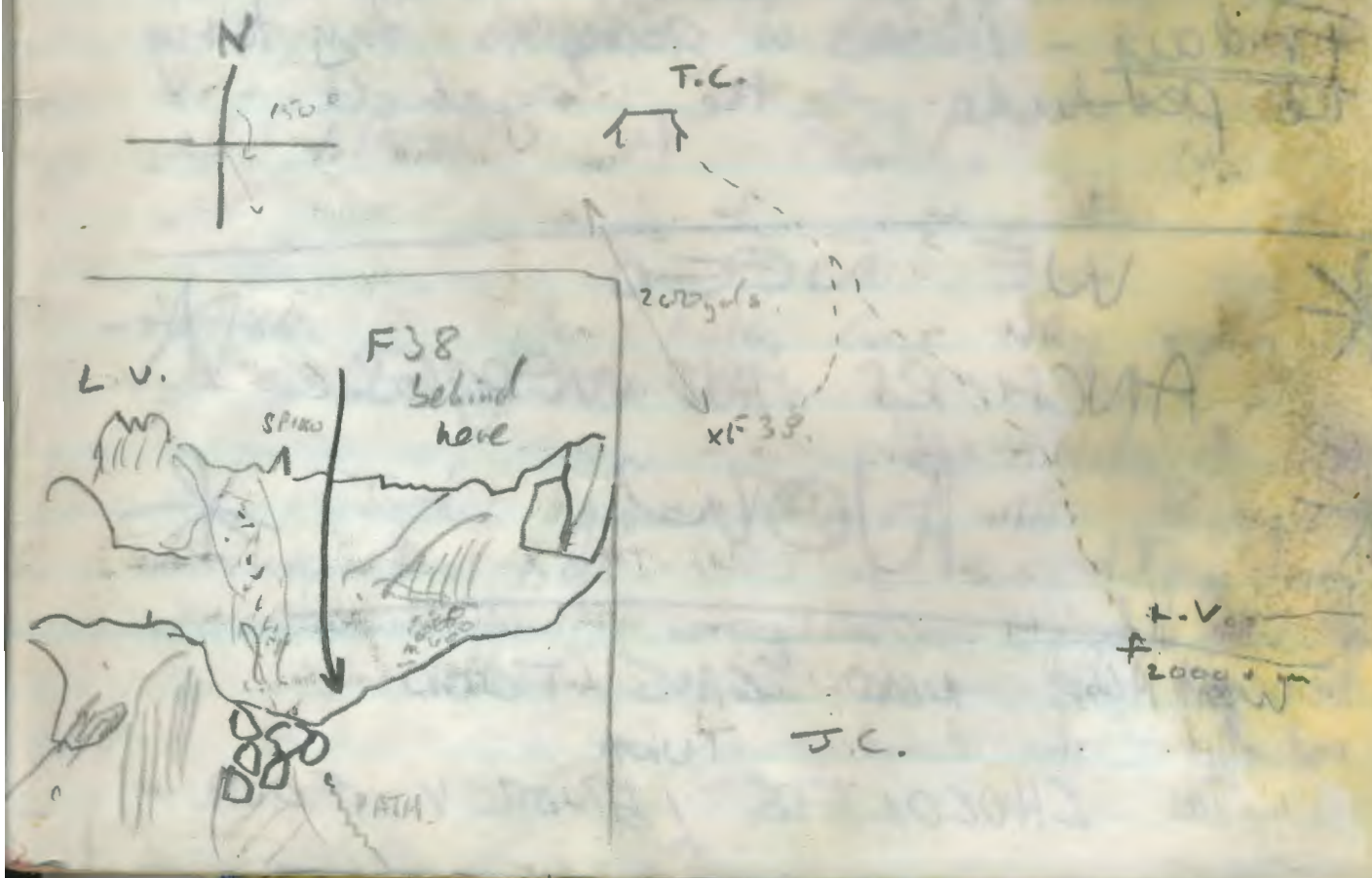
Everyone get stuck in the Axolotl on the way out. I did Di D. in 6'30" so that (OK not very good but I was knackered from the walk.)

Cheers,

Steve

For Paul, so he doesn't have to show anyone else THE LOCATION of T.OR CAMP WATER SUPPLY (F38)

Take path up to La Verdellenga. Turn right at 1st "dolin". Hole largish snowfield. F38 spilled at top of snowfield. If unsure characteristics are the column (see slideshow) + the rock [illegible] Good crap may or may not be present.



J.C.

F 20 Thursday.

The lone ranger rides again with Tonto getting deeper every year as the Ivory tower snow pillar slowly melts. The rigs for L.R and Tonto are the same as in previous but the eyehole is now about fifty feet above the top of the much diminished ivory tower. We went right to the bottom of the shaft and had a poke around. There seemed to be a way on which ought to take us into the adjacent shaft (fotfull of mallows) But after a quick look down there we found the way on blocked so we came out.

Friday - Mike is going to try to rig the pendule to the eyehole.

---

* WE NEED *

ANCHORS AND WEDGES.

* NOW. *

WE ALSO NEED CAVE FOOD

TUNA

ie. CHOCOLATE + ENERGY FOOD.

11

MANDARIN ORANGES ALONE ARE NOT ENOUGH.

FRIDAY 11/7/86.

STEVE + MEL → Ridge. Enough gear to get to ridge. Burning Rubbish. Setting off 10.30.

MIKE + J.C. to F20. (see)

We will prob. stay over + go down tomorrow.

We need scrubber for washing up + RUBBISH BAGS.

¡AND A PEN!

11/7/86 The Ridge Cave Stay again.

Steve + Melanie

Took gear to ridge to Burning Rubbish (inclusive) BUT there was no page (very nat - continued next morning + over page).

(6)

12/7/86

Ridge Cave – current situation.

– Rigged as far as Weather Station, down which there is a rope. The rig is awful (hence our non-descent) but there seems little alternative than a tape round a small sharp lump of chess unless you put a bolt in. We had only 3 anchors and had used them by ~~the~~ there.

– Tackle in cave:

at entrance – 120 m rope. Should do Fred Flintlock + Pitch into D.B.

at Weather Station. 2 × 20 m rope. (one is only abt 15!)
1 × 15 m rope
1 × 40 m rope.
One or two tapes, wires (medium/long). *
Lots of maillons, hangers + krabs.

So with what is there you should be able to rig into D.B.

You will need more wires, tapes, ~~[illegible]~~ Anchors + Wedges!

There is a bolt kit + a cardiac clamp at the building ledge for Bob. III. We tried to put a new bolt in for the ladder to replace Richard's abortion, but lost our last wedge. The hole is there if you want to use

it.

Re-rigging that needs doing:

— Head of Borborygmic. (Carefully tape + wire). This is a lot safer than it looks, but some form of Y-belay would be best.
The pitch needs a rebelay or deviation ½ way down, as it rubs on a ledge.
— Bord III — ladder is ~ 6 feet short. The longest ladders we have should just reach, or take a v. short one to add to the end.

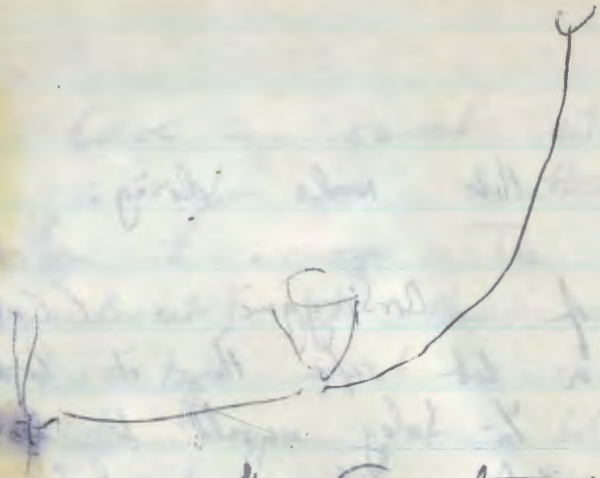
Ideally, D.i.D. could be re-rigged with a rebelay about 10 feet down. The top belay could be inside the end of the rift instead of round the corner. This would make the takeoff down 'sporting' but would avoid the need for rope protectors.

—

*** The trip ***

12/9/86 F20

Mike + Neil got through the eyhole. 2 rebelays on long wires badly rigged probably need removing, certainly need tidying up.
Gear down there: 2 tape slings @ top of tonto, 30m rope + some maillons + krabs + wire at eyhole, big rope + some rigging gear + t/b at bottom of snow plug.
Wants re-rigging on Marlow straight to eyhole! Mike



If it gets sunny — could someone spread my gear out to dry? It's by the cairn.

Ta. Steve.

11th July : F20 Mk. I Fred & Paul.

Armed with monstrous 200m of Marlow we got off down. One Tonto new rebelay No. 1 wimped out due to general BUTTAD (IT WIGGLE) (wire running block (3" × 3" × 2")) and other factors. Fred then lowered down carrying the end of the Marlow. Once he was down to the eyehole I let all the slack rope down as waited until I got v. cold then jiggered off.

3½ hrs.

F20 Mk II Fred, Dan, Martin.

I left all the rope at the eyehole and went out after Paul. As I got back to Top Camp Dave and Martin were just about to set off down, so I decided to go with them. Had a cup of coffee, got 1.05L on the way to the cave and found a new

cave on the ridge at 282° from Top Camp.
Day 1 I went to the traverse and rigged the pitch at the top with the maillons. I then abseiled down and did the same at the top side. Due to the weight of rope my bobbin would not function properly, ie it sat upside down which meant that I had to wrap the rope around my leg. This was facilitated by raising the knee, stopping the leg straighting the leg. I proceeded down the big pitch in this manner to the traverse and tried pulling myself across but with the rope weight this proved too much. With a great wee noise (heard at the top of the pitch) I shot across the shaft, this was fun I thought. Then the rope became untwisted from my leg and descent started rapidly, this produced the effect of wheel shiit! When I stopped, relying on the rope that was caught in the eyehole I pendled across to the eyehole and climbed up the last five feet or so.
Followed Martin in to the eyehole & then spent hours untangling various ropes whilst Martin had made attempts at rigging hit full of maillons. Shortwire needed.
Bottomed hit full of maillons & then rescended after mandarin stop. Great intro to Spanish caving.
Tried to rig first full of Maillons. What a bugger! We decided to go out and come back tomorrow with some short wires.

(110)

Neil & Dave Ridge Cave Rigging Trip.

Rigged very slowly to the top of Fred Flintstone, before running short of gear.

Gear needed down the cave: hangers, maillons, tapes, short & medium wires & ladders for the pitches in the Big Crunch. And the weather station pitch has a slight rub which needs sorting, on Barney Rubble the wire needs replacing with a shorter one so it isn't doubled.

```
PROCEDURE DRY
  IF {Inclemency > nice and sunny} THEN
    DO
      <PLEASE> Put my gear in INGLESROT Bag <THANKS>
    OD
  FI
  ENITUOR <MIKE>
```

ALGOL 68 phrase.

If anyone has removed something from my bag (in the caving Supplies bag), please put it back

Thanks Ray

arrived from Lost Lagoon at 8pm, 3½ hrs walk, totally drained of energy. 2 hours to the top of the X-valley, it was as if a tap had been opened, draining all the energy from my legs. Only kept going by the knowledge that it wasn't far.

PLEASE WRITE IN THE LOG WHAT YOU HAVE GONE TO DO, CLEAR + INTENT.

Otherwise people who come up what's going on. The log book should be a of day-to-day information.

Steve

we need some ~~salt + pepper~~ well more ha + ladders

13th July

E20 - Martin, Fred, Dan

Still with no short wires we F20 to rig the pendule. We took so that Dan + Fred could rig in, ok to the snowplug to recover the left there. This done & required the The top of the pendule is rigged rather than a tape and a short wire using this as they pass through?

Once again the first ladder pitch is for the ladder so could a ladder (short) the end of this. We then went on rawhide There is a traverse line down to the pitch head which is rigged on a long wire. We stopped at the bottom of rawhide since the next pitch needs a ladder or J!

(12)

Gear Down There

F20

|| anchors + wedges

length

1

7

2×30m (limit tripping) + 110m (at eyelide)

1 or 2

enough for 1 more trip. (no dick protector)

protectors

Rock up Fred.

Down pendule pitch until I got
I thought the pendule was
ing across to a narrow sloping
the opposite side of the shaft.
at the climb round the shaft.
must have been younger and
thought to myself as I
the harrowing traverse
to tie on the tackle bag
been pendulum with, to a
let out enough slack for
use. I climbed gingerly across,
I was in the wrong place
to climb up, but realised how
make it to the right place

say.
I swung back and tried again down.
I climbed across an unfamiliar ledge
which had an old tube tin on it.
must be below the right ledge. I thought
at the ledge but the rope lay a

the next pitch. "Oh Sod it!" we can go from here." Rope free!!" The trouble was that the rope from the bag still tied onto a thread above me was snagged, and there wasn't really enough rope to rig the pendule. I changed my mind and sent Dem back up the rope. I prusicked up, freed the rope and went up some more still looking for the proper way on. "There must have been a rockfall or something". I abed down and decided to go down as far as I could. Suddenly I saw a familiar way across. I climbed easily round, and there I was on the right ledge. I had also been to that ledge before, the one with the cairn on, but had approached it from a different angle.

What needs to be done.

i) Rig the long wire on first hill as mainline with a short wire.
ii) Replace tape at top of pendule pitch with a wire
iii) Lengthen pendule on pendule pitch with rope from the bottom.

10.15.
14/7/86.

Martin has got the scissors.

Nice sunny day as we all sit around mending our suits. It has to be done quickly as Martin, on being asked to lend his glue, hurled the

[10:24 Dan has now got the scissors]

over the length of the campsite, whereupon it exploded, showering glue all over Dan's kit, and denting the lid so that it won't fit. Hence there is ½ can of glue to use up before it dries out.

[10:27 Martin has the scissors again]

14/9/86

John T. + Steve to Ridge to Big Couch.

We have taken ~6 tapes, lots of hangers, maillons, + some short/medium wires. Also a 40m climbing rope for Fred to have fun with.

Since there are no ladders here, we will have to take the ladders off the entrance pitches + carry them in. They will have to be replaced later.

BRING UP SOME LADDERS!

We aim this to be a short simple trip just to get the gear to Big Couch; minimal re-rigging will be done (i.e. Fred F. will prob still have a rope portaloo on it).

Steve

14/7/86
3.00pm
Mel about to follow Steve & John into Ridge & re-rig the 1st two ladder pitches. Absolutely Knackered after taking a 5hr tourist (lots of sight-seeing up & down valleys) trip from Base to top camp. Need more ladders as I've only brought up the two needed for ridge. Taking some wires & maillons in as well as 2 ladders but nothing else.

Mel

Rigged pitches but ladders on need 30' & so both ladders too short. Climbable, but should sit some time.

Mel

15/7/86
Ridge Trip (yesterday!) Steve + John T.

Fairly efficient descent to Barry Rattle. The belay as rigged looks OK to me, and you need have more long than short wires, & leave it. No real points rigging F-Flintstone esq. The last sit is still a bit of an abortion, but I can see how it might be better rigged. (Sit on the big boulder facing out. Look up to your right. There is a big 'jug' - about 3' long hole. The rope could be attached to this & belted down).

Annoyingly, losing the end of the 120'm rope

here Dino failed to hit the bottom. We had little option but to tie the one remaining rope (Jim) to the end; and get involved in the art of the knot changeover. Somewhat galling when it is only 6' from the floor!

A quick cardiac bottle & chocolate break consumed, and then we put the other two ladders down. Sorry no ropes on these - I thought there were more short ropes down the cave but they got eaten/buried/vanished by Neil & Dave somehow. The last ladder was not descended.

On the way back up, I went back down Fred F. as far as the rusty rod on the first bit & put an anchor in a lit to level with the knot on the rope protector. Putting an anchor in while swinging on a rope at an overhang is bloody tiring, and a real pain in the bum. Still it went in smoothly - unfortunately, despite driving the hole deep, the anchor sticks out ~1mm. Still, this hardly renders it unusable as a much-needed redelay. A hanger & bolt will be needed, as the one I brought up (urrgh!) from the base of the cave lost its bolt on the way.

On the way out, John found his system was much more efficient at descending than ascending. Our emergence time kept getting extended from 7-30 to 8 to 9 to --- 11pm.! (Underground at 12 noon). Epic pools with the Axolotl. On reaching the 20m above Nick's Canal, I told John it was but a mere 20m. He said "Good, urgh, urgh, gasp. Is this the last pitch then?" "No such luck."

We were greeted by Mel, here on his own.

New - at head of last ladder pitch:

40m climbing rope
25' ladder.
1 bag of maillons, hangers, short slings,
3 knots.
3 lay ones, one med-wire.

- at head of Fred the Flintstone -

Bolting kit, Short wire, 1 hanger with no bolt!
(inc. anchors & wedges).

Next team

Pass the end of the 120m rope ~~down~~ forward. It is unnecessary as a bracketing line through the first part of the night, Fred the Flintstone et al can then be wiggled all over the one rope down as far as Rassemie Beach. Make use of the anchor I put in to avoid the wind.

Needed:

Short ropes for the two ladder pitches
Longer ladders for pitches 1 + 2.
A loony to do Freds Trolley.

Steve

(18)

I will not repeat on paper the full strength of my remarks on finding Mel here alone. But is this a caving expedition or what? We have two amazing caves, that have so far occupied a week to vary in, not even to the limit. Yesterday there were enough people up here for one trip, and on emerging we find no-one here prepared to go caving the next day, or the appropriate gear to do it. Instead, everyone, bar the three up here, has swanned off to Cangas for the day. THIS IS COMPLETELY RIDICULOUS. Why the hell aren't there enough people up here, out of the huge numbers on the expedition, to sustain a continuous caving effort. Why aren't people bringing up the appropriate gear?

I am really pissed off. If we want these caves to go deep, we've got to raise the enthusiasm to put the hours in, get your act together OUCC !!

Steve

(Lt. Col. retd.).

Blowing windy night. Sleeping in Dave's tent, with goods flapping noises from outside. I dose off, and find something round under my feet, "penny" I think, & dose off again. I wake up ½ hour later to find the round thing was a tent pole - and that the tent had collapsed all apart from the bit above my head. Escaped to Mike's tent. Dave's has now

been completely brought down, pinned down by wellies and rocks as the wind continues to whistle across camp.

15/7/86 (continued) 12 noon. Steve, John T, Mel.

no-one has turned up yet.

As we have no ladders (needed for F20) and as Mel's hit it up Eg Ridge, we have taken the 100m Madar up to 2/6, with the idea of lobbing it down & having a look-see.

We've left Dave's tent down as

a) he can rig it better than us.

b) the wind is still quite strong.

Same day – ¼ past 6.

STILL NOBODY. What the hell is going on?

Now two days down F20, 2 are down Ridge gone missing. I sloudy hope some people come up tonight. I'm going down.

2/6

Ever hang at the end of a 100m rope, looked at the small dot of sky above, the black depths below thanked God for the knot in the end of your rope & started back out? I have. I thought it was supposed to be only 80m deep!?

However, I did rig it from the easiest hang, right at the top. (I thought this

was how it was done last year.).
On the way up, I noticed a web, about 60m up... twang twang. I prayed to the god of ropes & of caves as I got close & saw the rope looking furry at the web. "Come on, come on, the last 7m isn't going to be the one that kills me, is it?" I got to the furry bit & brushed off a large gobbet of spider web.

That new Marlow is fast! 5 bars, & my glove burnt through on the rope!

Then we did some shakes dancing, on walls Mel & John did while I sunbathed.

The 100m rope is in the shack with the "OUCC '80 2/6" mark. I have say if say a 30m rope were rigged to the 'bridge', the 100m would then reach the bottom. Might need a couple of volunteers using long tapes or wires.

Longest straight abseil - prusik live done!

Unnamed - just below 2/6. Over ridge past Ridge cave. Someone should take out some paint & write OUCC F40(?) etc. Went down 15m shaft only to find lower entrance will snow plug - this entrance was found by John when looking for 2/6. Found a tight crawl which led to a small pitch as proven

by throwing stones through crack. Could not passable but could be hammered out.

F26 → Explored after last one. Dead boring off. Goes down about 15m. Choked at bottom with rocks & snow. Nothing leads anywhere but at least nice & cold.

Mel

---

gear for F20

in cave,
1 x 110 m rope
2 x 30 m ropes (Blasphemy, P20, P28).
7 hangers
1 tape
2 Rope protectors
Bolting bits

To go
short ladder
2 ladders
~~1 30m rope~~
3 x 20 m ropes
ladder
4 wires, 2 spi
5 Tapes & maille

Wednesday July 16th
This is who is doing what where:

RIDGE
Climbing: Mike & Fred
Gear carrying: Dave & Neil
Follow-up & bashing?: Paul C. & Steve M.

BUGGERING OFF DOWN THE HILL
Johnny Tombs

(22)

F20

Rigging : Phil, Uno, Mel, Jonathan C.
Surveying inlet & prodding odd holes : Paul B., Roy.

p the hill and intending to bugger back down
hard, Brought up 25 + 15 = 40m of rope & my
Please don't strew the litter all over the place.
r having set out gung at record speed
top of Sod 2 — I never made it that
y pack at the end of last year's Expedition!)
finding myself utterly knackered & ate
vino ??). Spent a full hour asleep in
sun in the Vega de Aliseda before I
to attempt the final bit. Argh.

*

EYING will be done PROFESSIONALLY & Ha!
equipment by a surveying & geodesy student,
ger, from Munich during the second half
tion, so DON'T BOTHER ABOUT IT NOW.

*

sale from the Base Camp Kitty: Expedition Colour
Two views per card: Sima Conjurtao Ridge Cave Entrance
ding in the Dark. Your personal way of explaining your
as back home where you've bugged off to for 3/4/5/6
weeks (tick appropriate)! 60 ptas each, strictly limited edition,
offer only while stock lasts — an extension purchase three by
any one Expedition member (including myself).

Best Regards from the German Branch's Chief Wombat

YAWN AGAIN YAWN
but ~~tried to~~ be here again!!!

G. Wharal

(Sorry bout the handwriting)

Wed. 16 July 6pm Gerhard back off to Lagos, intending to pop in the way. Whoever is keen on seeing Calicanto tomorrow morrow?) please contact Franziska about it. Somebody whereabouts would be welcome. G.

F20: Inlet surveying.
Due to absence of instruments Grade 5 survey was not a Grade 1a survey of the passage to a very was completed. Went down out 6hrs
P.5 Using a proper is a really good idea.

16.07 19⁰⁰
For the first action-day during my holidays it was a damned hard trip. From base camp with gear into Ridge-cave down to -250 and back to base camp again. Thanks to Martin, who was as hard to be my guide. I took some pictures. And the weather is great! Good luck!
Franziska

Nag Nag please write in the base camp log what you have brought up out of the known list so the rest know what to bring. best regards Martin xxx

(24)

16/07/86 - Ridge
Dave H. Neil, Steve M., Paul C

A carrying tackle for the rest of the cave trip. Steve joined Fred & Mike in pushing on from Freds Folly down into the streamway. The rest of us went out. An uneventfull exist except for when the belay fell of the lowest hang of Fred Flintstone whilst Paul was prussiking up.
Will some one please rerig this hang from a bolt & get rid of the horrible deviation

16/7 Ridge
Mike, Fred
Down to re-climb Freds folly - fairly uneventful except for Fred falling off and handing over lead to Mike. Joined by Steve M. who had re-rigged Freds Flinstone (needs another bolt). Successfully rigged down to bottom in Great Belfry.
Lack of tackle meant the big, draughting, v. prom. rag, etc., etc. - shaft down to streamway could not be rigged. 30' ladder rigged upstream & stream reached but not pos. to negotiate progress to bottom of large drop.
Unfortunatly on the way out Fred had a large boulder hit him & he exited at high speed & in great pain to be treated by Paul Cooper (brain surgeon) with luckily only a broken tooth.

F 20 UBS, MEL, PHIL, JONATHAN

We rigged on from Rawhide the first ladder pitches (1 needs a ladder) and on to Bla great entertainment with c each. Spent some time pitch at the end and had a composite belay as I long enough wire but i work ok. Onwards and do the chamber below for a Urs rigged the rest sho a sporting take-off that Jonathan camping him and squirm in a n manner. Eventually he g I followed. Mels have Here some trouble by th we decided to go o slow, out at dawn.

F20 Rigging Points to note.

i) Pendule II rope needs to be longer.
ii) Second ladder pitch (p5) after Ra needs a ladder
iii) Pitch at the end of blasphemy needs a long wire to do the rig properly.

Tackle in the cave:
2 20m ropes 1 30m Rope 1 ladder
3 tapes 5 maillons, 4 Crabs, 10 hangers 3 tapes
3 rope Protectors

(26)

bit more rigging gear and a 10m
the ladder pitch, this tackle
us to the 28m ~~pitch~~ pitch beyond
Sore and onwards into the unknown!

very fine classic Picos Sore
unfortunate victim of unrated
by many of the expedition
The vertical series is among
in the world, with some of
advanced rigging techniques
negotiate it. The right
good fun taken in the
it, blasphemy right in
provides the modern speleologist
unique challenge. People who
F20 is a bastard (and
not giving it due credit.
(1)

I like F20 too
J.C.

I agree totally, F20 IS BRILLIANT

* The Axle-Offle's Gotta Hotta Bottle

18 July 86

Ridge – ~~Hug~~ Neil + Steve pushing in Ridge

Phil, John, Dave H, Finish Rigging and pushing in F20

Both parties down at about ~~mid~~ one pm.

17-18/7/86. Ridge. Steve R. Dan. Roy.

This was my first trip down ridge, & what better way to start than to go straight to the bottom & start pushing. Leapt down the entrance pitches at about one, & had a fairly efficient trip down. Dancing in the Dark etc, Hoo the Axle Offle? & down to ~~Nucks~~ Nucks canal where the stone that hit Fred lay (plus a few ominous blood signs) Ignoring such omens we hurtled on down to Dinosaur beach, very impressive & ~~up & over~~ down to big lunch, more impressive then up & over & down into a rather nasty rift, in which Steve attempted pass right at the bottom in a very tight nasty space. I must admit, I didn't see the bottom of the rift, but judging from the number of 'shits, ~~ass~~ offs' etc etc, it wasn't very nice. Finally arrived in big beluga, & began hammering in bolts, at the top of a pile of rubble. Steve went down this eventually, & then had under a pile of boulder while we descended the pitch. We then threw stones down the next 'pitch' & listened to them thunder down for about 10 seconds. In the distance the roar of

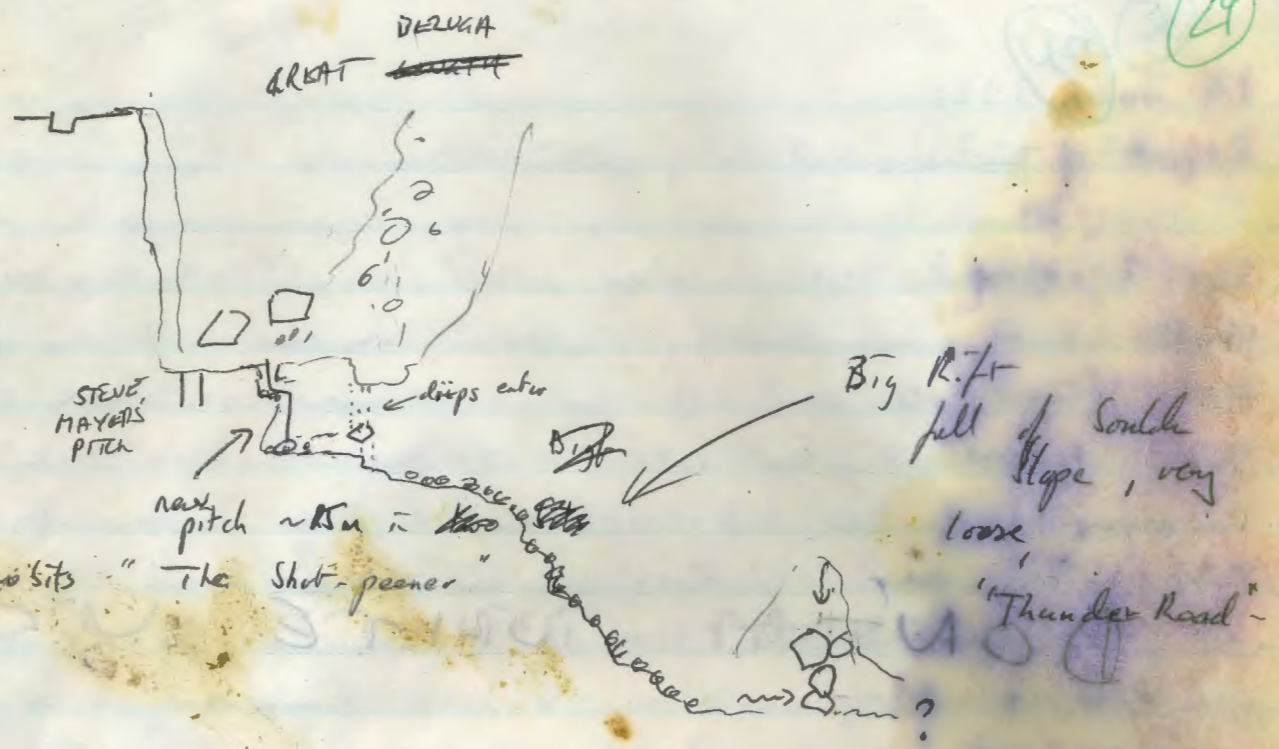
water could be heard - could this be a 500' pitch down to the streamway? I set off down the steeply sloping passage to the edge of the pitch. A few metres below was another boulder slope which I carefully jumped onto. Hundreds of boulders crashed on down the pitch. This passage continued in similar vein for about 80' steep boulder filled passages & steps of 3-6 metres. Eventually we arrived at a small chamber with a waterfall flowing into it. A second look by Steve revealed a passage carrying stream water down behind the waterfall.

By this time we realised that unless we could reascend the cave in under an hour this was not going to be the 12 hour trip it was meant to be.

The spent along time prusiking, walking, fiddling with lamps, eating hunc. mandarins etc more prusiking, making several weird & wonderful mistakes on changeovers on Fred Flintstones (that was me) & the hpally at borborygmi? prusiking became automatic, & we (I) reached the top at about half eight. A nice 20 hour trip.

Gear:

Down there:- A small amount of carbide.
Some tapes
Diver plus hammer
A bag & a bottle & anchors & wedges.
A couple of rope protectors presently on rope at Thunder alley which deperately needs rigging.

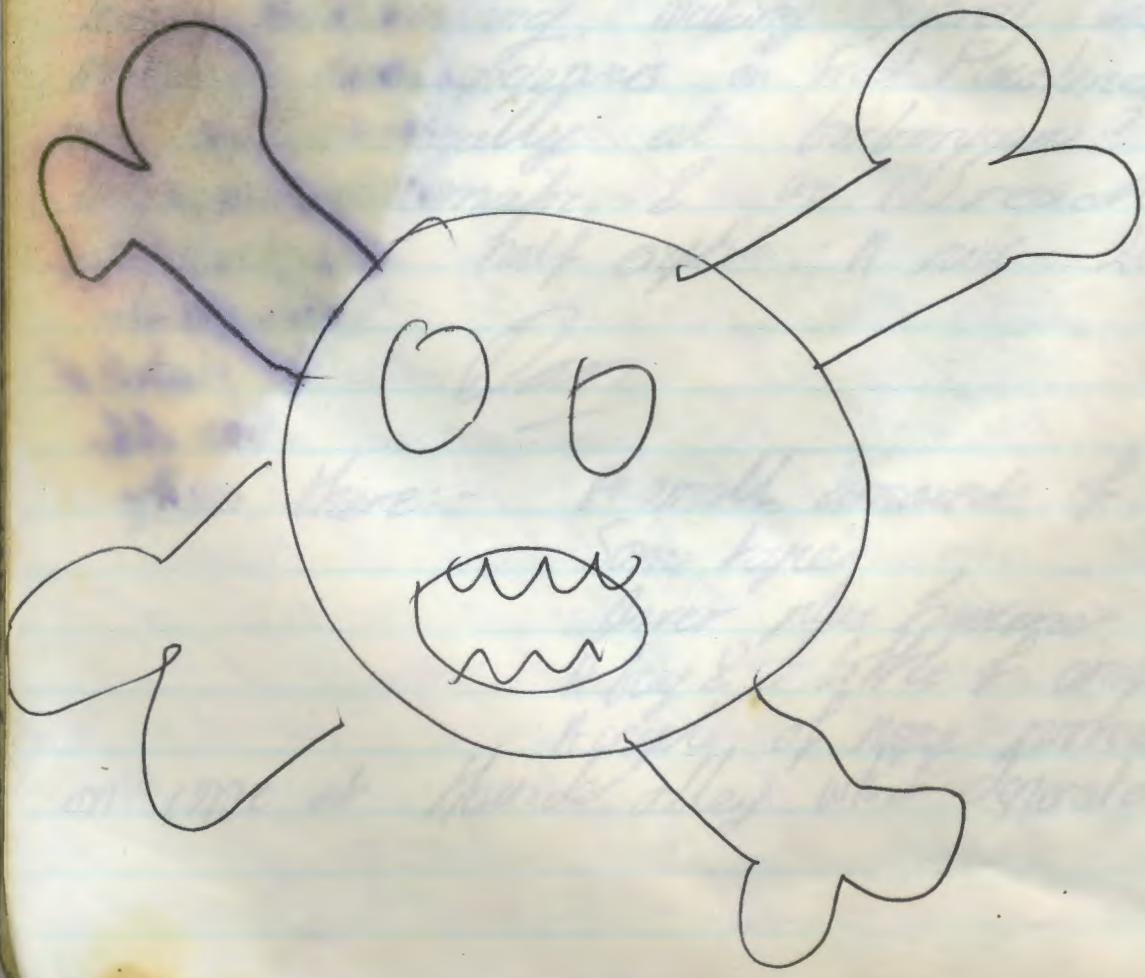

DELUGIA
GREAT ~~[illegible]~~
STEVE, MAYBE'S PITCH
drips extra
Big R.J.T full of Scottish Slope, very loose, "Thunder Road"
next pitch ~15m in ~~[illegible]~~
two bits "The Shot-peener"
?

(30)

DON'T WRITE

THEY ARE

POWERFUL



(31)

ON THESE PAGES

JINXED.

JU-JU.

(37)

18 July 1986.

Report of the expedition psychiatrist.

I arrived this evening after a stiff but pleasant walk and immediately realised the magnitude of the task ahead. I had, of course, been forewarned by those below at the lakes, but nevertheless the immensity of the difficulties and the intensity of the many and various conditions suffered by those at top camp ~~were~~ dismayed me.

Patient May, whom I had known as a jolly, carefree lad, was clearly in the throes of ~~[illegible]~~ impenetrable depression; so much so that he could hardly speak. To my inquiries as to the availability and location of alcohol — which in days of yore would have produced an immediate and positive response — I got only grunts. He knelt, in the classic attitude of the traumatised, gazing without taking in his surroundings at a pile of chopped onions.

Patient Collie was nowhere to be found. Those of her companions still able to form sentences indicated that she had gone "walkabout" during an attempt to find new cave entrances. Earlier reports had suggested a severe case of Alzheimer's syndrome; my fears were confirmed. As a preliminary diagnosis, I recalled her description of being forbidden to spread marmite thickly on her toast at age 3 by both parents. That juvenile alienation would appear now to be making itself manifest.

Patient Cooper (J) reacted with anger and

frustration at his own mistakes — failing to fry onions, dropping grit in the stew. I could see he was well on the way to deep psychosis. He wore shorts, despite the low temperature and bitter wind. In this case, there may be no hope, the duracell batteries being insufficiently powerful to drive the ECT equipment.

Patient Mace was a further cause of concern. He appeared listless and unenthusiastic, claiming that a previous "trip" into an underground cavity of 18 hours duration might be an excuse to feel tired. My impression was that he was taking the classic neurotic path of seeking for procrastination and means to defer action. Tomorrow I shall begin questioning him in earnest about his childhood sexuality — I fear an element of molestation and/or incest may be present.

In general, the group was withdrawn, quiet and uncommunicative, failing to converse with myself or among themselves. An encounter group and occupational therapy — I have brought up several easy jigsaws — will be only the first step in this arduous task.

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(34)

The Perils of Cigarette Smoking : Part III in a Series

Mike : "Shall we take a lighter down".

Dave : "No"

Mike : "Oh, why not ?"

Dave : "On account of we've got these big flames on our heads, like".

Steve M & Neil

on exploration at last trip. Quickly Road' and was horrified to see the been rigged from the previous trip ie. rights & loose boulders. Descent achieved after 1 bolt to the chamber with the into it.

followed down a 15m and then 10m pitch sporting meaning you get totally soaked stretch & mostly very fine streamway passing approx. 4 inlets coming eventually the inevitable sump.

possibilities for a by-pass most promising are:

① Crawl passage just above sump.

② Climb up into large passage under inlet at the bottom of Thunder Road followed for 300' by SM)

③ Climb up near large aven in Great Beluga.

Anyway I think possibilities very high for further progress if sufficient effort put in.

Exited from cave uneventfully after a 16 hour trip.

19/7/86 Arrive ~10pm - oh Fred, Dan, Ukey, & the MYSTERY in Gerhard's rucksack.
Hints it's orange coloured & dehydrating.
— Lovely sunset & singing, G.

THE FOOD IN THE BIG BILLY IS CONTAMINATED WITH BREAD — for use by Dave Rose only.
There's rice in the pressure cooker on the petrol stove and stew on the gas cooker.

F20 "Pushing Trip" Martin M. Son. C, Ian

My usual eventful passage down the entrance series, including turning a somersault to extract myself from a rebelay loop, getting wet a glove but my troll suit and 2 rope protectors caught in the my rucki resulted in a reappraisal of the possibilities of the trip by Ian. Diplomatically he elected to be wet yet bit for a long trip and returned to surface for another day. Ouch at the kindness of this hearty Welsh pair up with me as we made our way down to almost the limits of exploration except we couldn't find the last ladder pitch. Left our tackle bags at bottom of Calamity Jane for next party. Marked out a route through Ernest Rift - Go below not too obvious plastic markers. Needs more markers for better route marking.

The outward journey consisted of me falling asleep and Martin tapping me on the helmet to wake me up. Emerged just before seven to see brill sunrise; which no-one at trip camp saw cos you were all asleep. But you jealous. Next trip should will need much gear cos there's lots down there - Calamity Jane - 1x50m, 1x60m 1x40m 1x25, 8

P.T.O

1 Cordelet - 5 tapes, 11 anchors + wedges, 13-2 14 maillons + lots of hangers. Bolt driver

Bottom of entrance series = 50m rope + some food not much less we had breakfast on the way out

P.S. Martin didn't like look of untightened bolt on Y-hang pitch, I never noticed.

J.C.

ON SALE FROM BASE CAMP KITTY NOW:

- gloves "guantes de goma industriales"
- personal tin openers "abrelatas"

check price with Fred, approximately 250 ptas/pair and 75 ptas/tin.

G.

Book on what they found in Ridge (20.7.86):

Paul: High-level fossil passage
Ian: Mike unable to pass squeeze, could see continuing passage beyond.
Dan: Nothing at the sump, way on in the Big Beluga
Martin: Fossil passage over the top of the sump.
Gerhard: Passage stopping at a "foolhardy climb".
Urs: Nothing.

A drink at the lower bar to the nearest contender.

I am going down to Base heading North first. I may be back this evening. I will bring

Bread
Petrol
General food
Friends + stuff
Fruit.

20th July, 1986.

216 Gerhard. Ian Houghton.

Ridge. Surveying. Ukg. Paul B. Dan. Out early ish Tomorrow

20 July: Brilliant Sunday afternoon pushing trip in 216, having dragged up (supposedly) 200m of Marlow and 45m of PMII. Martin Laverty was extremely helpful with the dragging but abstained from pushing. Enter Ian at 2^45 pm spider-man fashion, Gerhard hides in the only bit of shadow to be found and drowses off. Sounds of a hammer from way below. At last a shout: "Gerhard, come down and bring the other Marlow with you!" (6^pm) Eye in the Sky is going big, and the inadequate rope lengths mean knot changeovers on tiny ledges. (Well, one knot changeover). Another bolt is knocked in while G. does some hypothermia research. At last we stand at the bottom of a large chamber. A little snow. A shimmer of daylight. Straight above us a small patch of blue sky. Next to it a yellow patch of reflected sunlight.

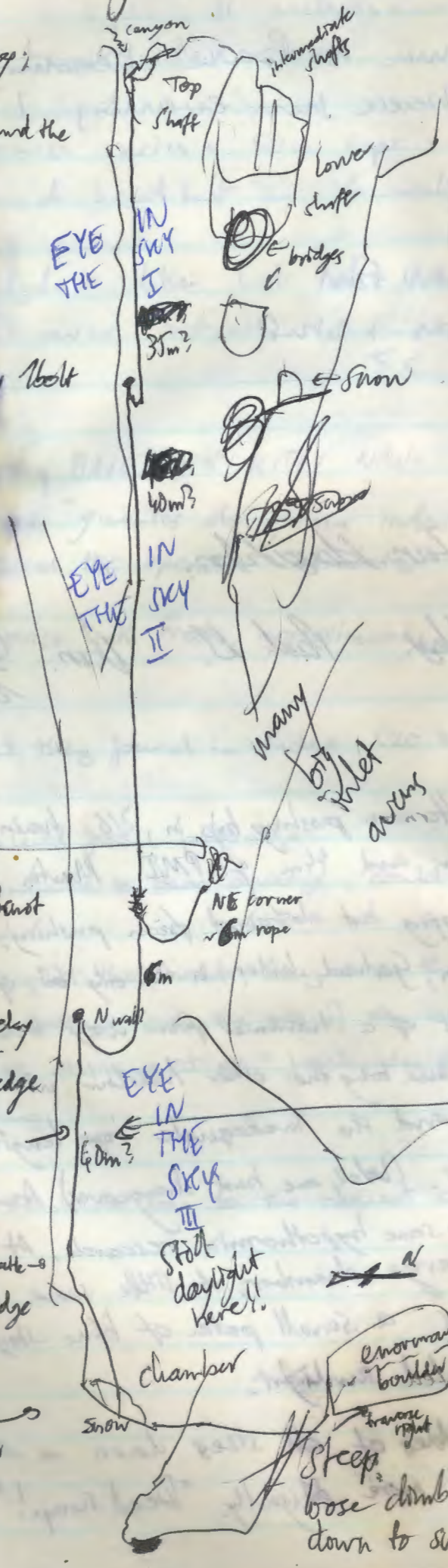
Ian kicks 16 tons of pebbles of all sizes down a steep 6m climb and then follows rather more diligently. "Dead sump!" This

Dover

216 so far:

present rigging:

90m? Marlow tied round the secondary tape as primary



to be changed to:

tape round the secondary to save 7m of rope

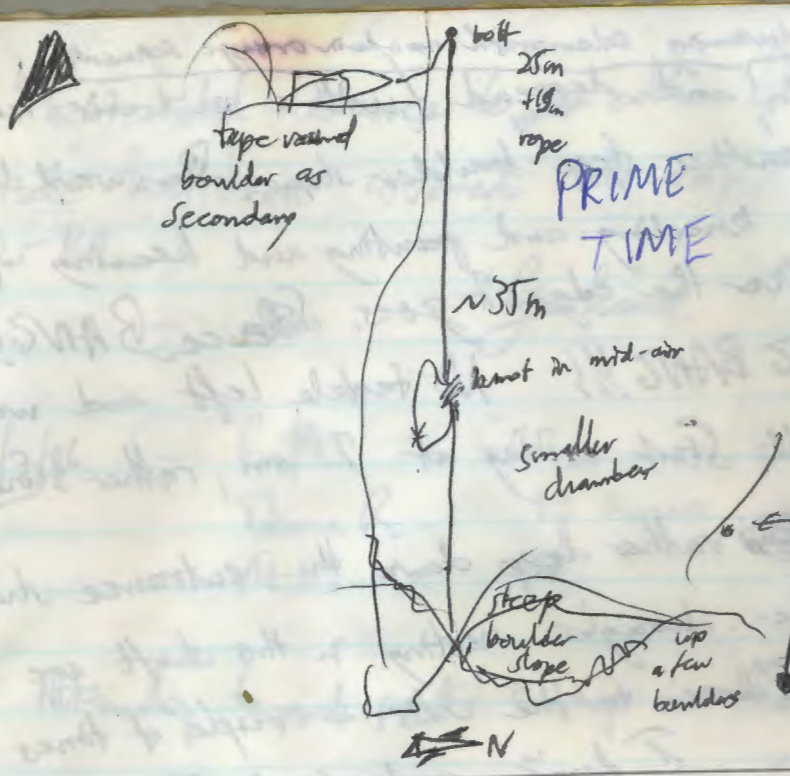
takeoff has to be simplified (traverse line 10m + 2 bolts?)

undo the "pullover"

take upper rope down to rebelay

use 65m rope for the rest of the entrance shaft

see over



use single 40m rope on this!

"Don't think sorry's easily said
Don't try turning tables instead
You've taken lots of chances before
But I'm not gonna give any more
Believe me
The Sun in your eyes
Made some of the lies worth believing."

Chorus: "I am the EYE IN THE SKY
Looking at you
I can read your mind
I am the maker of rules
Dealing with fools
I can cheat you blind
And I don't have to see any more
To know that I can read your mind."

(Alan Parsons Project, Eye in the Sky)

"And it's a PRIME TIME
Maybe the stars were right
I had a Premonition
It's gonna be my turn tonight
Gonna be my turn tonight".

(Alan Parsons Project, Ammonia Avenue)

Δover▷ can't be true – and isn't. A short traverse to the right, then up more loose boulders past one enormous piece of rock. Ian with a glint in his eye lifts the largest pepple he can find and throws it ahead. 2 seconds – BANG! We tie the 25m & 19m PMI together, jointly

Δover

(alternating with devouring calamorous mandarin orange segments)

▷ over ▷ (10) knock another bolt in, and descend (with a mid-air knot changeover) to land on another steep boulder slope. Downward chokes. Upward, and I see Ian kneeling and panting and heaving up a hundredweight boulder. Over the edge it goes. Silence. BANG! rattle rattle BANG a rattle BANG BANG !!! No tackle left and we don't fancy placing another bolt. Start exiting at 7.30 pm, rather slowly. Encounter two beetles rather deep down the entrance shaft, plus lots of cobwebs; the choughs nesting in the shaft are audible but not visible. I come too close to the walls a couple of times and some pebbles whizz down. I don't understand Ian's comment on this but gather later that one of them had hit his helmet, luckily leaving no trace. – Out just before 9 pm. Martin Good Man still around, and a brilliant view over the lowlands.

Things to be done:

— Sort out the take-off: 1 or 2 bolts & a 10m traverse line needed. Use none of the Marlow on the secondary, the end of that rope wants to be a few metres lower down. Rerig the first rebelay accordingly.

— Get rid of the knot, and the pull-over belay. Join the next rope, which wants to be ~45m long at the second rebelay. Take the second length of Marlow down. The last stage needs another bolt or a tector some 6m down.

— Hang a 40m rope on PRIME TIME and take the 25m & 19m down. Bolt and push the next pitch...

(You really want to rig the thing from the top shaft – the lower shaft ends on a snow-covered ledge some 30m down.)

The general trend of the horizontal bolts in the chambers is north – i.e. towards Ridge Cavern. More than a third of

the horizontal distance to either Dinosaur Beach or Big Crunch has been covered already. Depth at limit about 150–160m.

Gerhard

19–20/7/86. Paul C
Dave R 19 hours
Mike

Attempting to push past sump in Ridge.

Abseiled down to "Crystal chamber" at bottom end of Pinder Road – rather leisurely so far. Climb up through waterfall leads to upper chamber. Way on is low around up short slope at far end of chamber. This leads through boulder choke to medium sized chamber. At far end short climb down leads to 10m pitch down to one end of large chamber. Climb up loose slope at far end and then rope climb down in rift to a gallery in further chamber. 25m pitch of edge drops down to boulder floor. This is in the roof of a large fault line collapse rift, at the bottom of which stream can be heard – maybe now beyond sump?

We used Steve Meyers ropes from pitches in streamway to rig the 2 pitches. Therefore tackle bags + gear still at end of streamway.

Came out after meal of ham, tuna, fruit, chocolate etc... etc.

Pl

(42)

IT IS FORBIDDEN TO READ OR WRITE IN THIS LOG WHILST MAKING A CRAP. IT IS UNHYGENIC!

Schwathon please take note.

20.7.86

Mike, Dave R. Emerging at 9am took breakfast, a sleep, then tea and oranges. Walked to Ario for ham + eggs, soup, salad, nuts, pears, ~~ice~~ coffee and many beers. A beezer thing to do on a day after long trip. Julie + Vlas are married (November) + showed pix of Albert, their 5 month old son. This has ~~[illegible]~~ cured me of powerful erotic obsession with Julie. Walked back with vino for team cooking.

21.7.86

Quoth Ukie: "You never know. This might be the pushing trip of the decade." (To team F20, setting amid dejection.)

My 27th birthday. Setting off for 1/6. (That unkalistic pedant S. Gale has painted F30 at the entrance! Cono!) Previous birthday trips were good... finding Pot Iron in xite; the Mekong in FU56; last year Dinosaur Beach... what holds the future beyond the usual deontology and exhaustion? D.R.

A Simple Guide to Log-Book Write-Ups, suitable for the Beginner (with Apologies to Aristotle).

Every write-up has a beginning, a middle and an end, and I intend to deal with these three in order.

Beginning

It is acceptable for this part of the write-up to deal exclusively and at length with events occuring before the actual cave trip. Suitable topics are: a graphic account of exactly why no one got underground before 4.00pm, including blow-by-blow recollection of the previous night's piss-up; a graphic account of how cont. overleaf

Ridge Survey: 21/7/86 Paul, Ukey, Dan 19 hours

Surveyed from top of Hammerhead pitch to the bottom of Thunder Road (17 stations). This may not seem much but Thunder Road was very difficult to do with only one person moving at a time. Took 9 hours to get out. This included getting lost between Hammerhead and the pitches before Fred's Folly. Last year's route is very easy but with no rope we couldn't find it on the way back. It would be nice if someone put a rope on it. It is reached by moving horizontally from P17 to obvious place to climb down. The rope is cut to the core at the top of the Weather Stn. Can someone pull up the rope and remove this nasty thing. P.B.

P.S. Hard's hurt!! P.B.

P.P.S. Dan fell 15' down among loose boulders in the Great Beluga. Hazardous business, this surveying.

your vehicle failed to start ; a graphic account of the lamentable condition of Roy's headlice. Three pages or so here are appropriate. Caving should on no account be mentioned.

Middle

This is your chance to write down absolutely everything that happened whether it is interesting or not. A parasyntactic sentence structure may be recommended (this means loads & loads of clauses joined together with 'and' and no punctuation).

End

The novice may find that the following phrases prove useful:

"Out after xx hours to a beautiful sunrise / sunset / starry night / stew / bottle of Ricard / etc"

"I hope the next pushers have a really brilliant time"

"A classic trip" (particularly useful if, say, you have just spent 22 hours reading the wrong scale on the clinometer).

A Pitfall for the Unwary

The following style is now generally considered outmoded:

"We all went caving and it was jolly fun / boring and then we all came out again".

Note on Legibility

Your write-up should above all be completely illegible. It is impossible to attach too much importance to this point. The only permissible exception is where words or phrases of unusual significance may appear in capitals, such as "OH! ARGH!" or "DOZY PILLOCK?"

The novice who adheres to these simple principles will find that, with practice, he or she will be able to produce write-ups of a most pleasingly conventional nature.

Have gone down again. Will bring up this evening:

Tomatoes
Jam
Fruit
Cave food
Rumtakes.

2/6 – The Trip (Rerigging / Pushing) Jonathan & Paul Cooper, Gerhard

Burdened with twice 50m of Marlow and some more assorted items we set about rerigging the head. Paul tries to get a bolt in to ease the take-off but the rock is too weathered. Eventually we just streamline the existing rig. It is now: long tape round secondary hump, with rope attached to it (can be abbed / prusiked up if you don't want to climb); 10m PMI round primary hump, with a tacklebag underneath as padding and an attachment to prevent it from rotating / slipping off, main rope attached to give a free hang. The knot changeover has been shifted to the second rebelay, so it's unnoticeable from a practical point of view. The 3rd stage of Eye in the Sky has now a 50m Marlow on it. From counting prusik cycles I'd estimate pitch lengths in this shaft to be 37m, 55m, 23m. The last stage still rubs and wants a 'tector or bolt.

Prime Time was rerigged with the second 50m Marlow which is also too long for the 35-odd metres.

But I've failed to tell that Paul, upon having had a last look to check the pitchhead, suddenly turned away, green in his face, leaning on the wall, murmuring: "I'm so sick, ohh...", coughing... One out of three persons can't bear the sight of this shaft! He then broke the reflector of his electrics and stayed outside, so it was just JC & I who went down. So we had a good look at the third pitch, took a deep breath, and started bolting it. Absence of a decent natural within reach meant a bolt as a backup, plus another for the main hang. 6m down on my

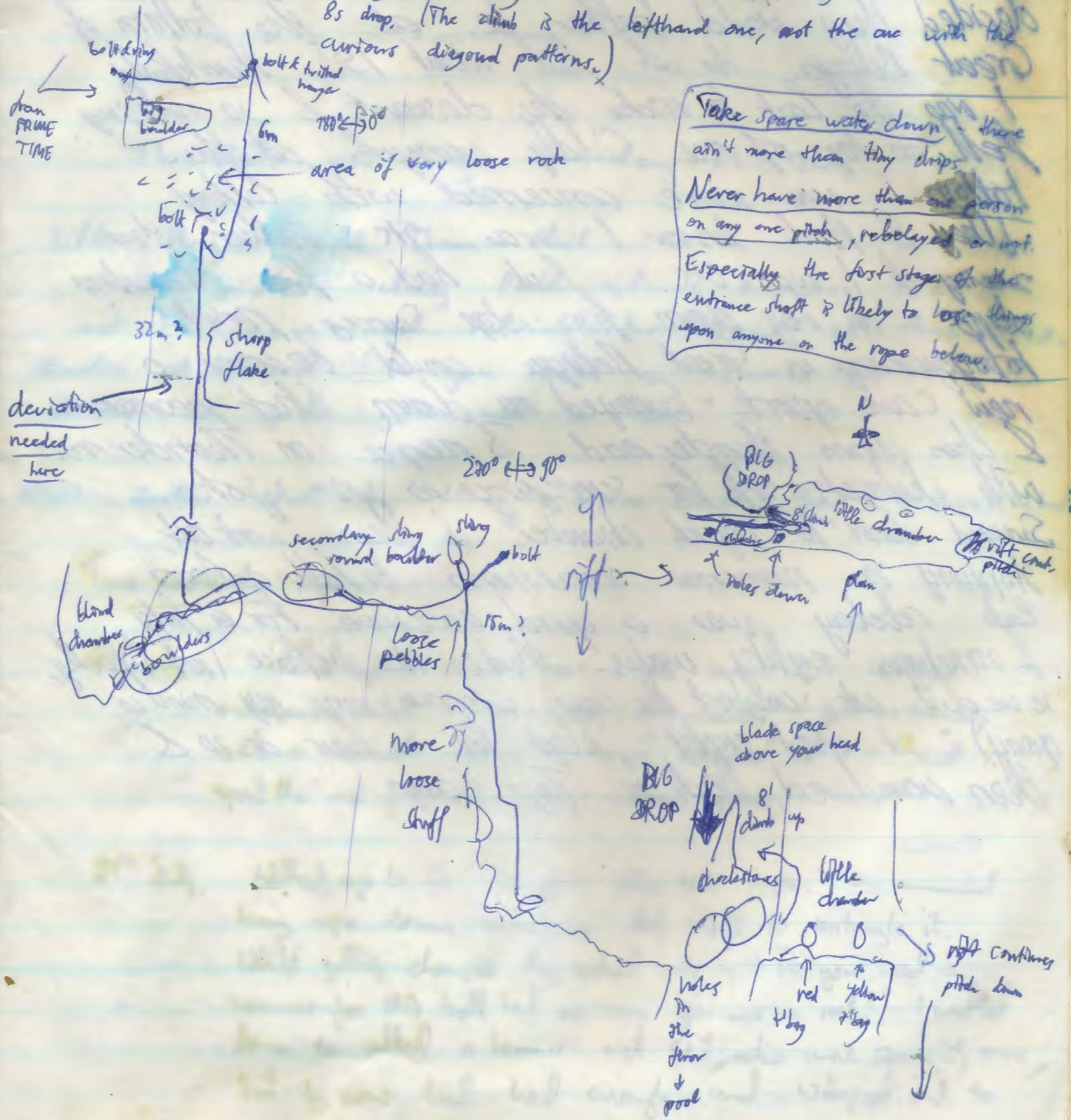
first virgin shaft descent I see the rope beginning to rub. I lock off, take out the hammer and begin tapping the rock. Immediately a rock the size of a water container falls out and whizzes past my feet. The whole area is extremely crumbly and shattered. Eventually I prusik back up 3 ft and, on a last glance, discover a slightly less dubious corner. Bolt, robolay, off down with 100m Marlow to go. I find the new hang misses a long sharp projection by a couple of inches. This wants a deviation (bolt in opposite wall which is 3ft away, sling, krab — where are all the club krabs???) because the inevitable pendulum of a prusiker does make the rope touch this flake. (Suggested name for the pitch: The Blade Runner.) ~40m.

The landing is on, guess what? a steep boulder slope which drops in a chamber if climbed down. Once more, the way on is up the boulders and round a corner to a tall rift leading off east. This time JC has a go at virgin exploration. A sling (which really ought to be a wire) and a bolt give a nice Y-hang. Far too sophisticated for what follows. We hang the rest of the Marlow down this & JC descends accompanied by the sound of falling rocks. We had tried to garden the area a bit before but there's such an abundance of loose pebbles... JC goes off exploring and some minutes later shouts up "Rope free". Down I go past ledges with more loose rock (Ladder would be useful as the lower half of the 15m (?) drop is awkward for prusiking) onto a steep boulder floor in the 5ft wide rift. This time the way on is down. Hole in the floor - I look down to see my light reflected in a pool 25m below. "This is not the way down", says JC from somewhere above. I climb up & traverse over some large chockstones into a little chamber. Straight ahead the rift continues and offers a decent pitch into the Thing below. However, JC beckons me back round a sharp left bend to a seemingly blind corner. "Go up this climb and look over it," he says. I try to do the 8ft but slip halfway, so I just hurl a pebble over the edge. It goes for 8 seconds.

We decide this is too big for us, and start the exit, interrupted by an orgy in the daylight patch at the foot of Eye in the Sky Out 9:30 – 8½ hours for me.

Tackle left at the entrance, ladder & spreader & maillon

— — in the chamber, yellow tacklebag containing 8m tape, 10m + 15m PMI pointing to continuation of the rift;
red tacklebag containing 25m + 19m PMI, pointing to the climb and 8s drop. (The climb is the lefthand one, not the one with the curious diagonal patterns.)



Take spare water down – there ain't more than tiny drips.
Never have more than one person on any one pitch, rebelayed or not.
Especially the first stage of the entrance shaft is likely to lose things upon anyone on the rope below.

(48)

Sunday 20th July. Surveying down Ridge. Ukey, Dan, Paul.

A rather unusual introduction to surveying, first survey point involved me poaching on, the ~~and~~ a rock at the top of hammerhead, desperately trying not to knock rocks down on Paul. Survey continued down to Great big Beluga where I clambered onto a large pile of boulders which then decided they would rather be at the bottom of Great Beluga. We all fell about 15'; thankfully I was the last to make the descent & so nothing fell on top of me. Oddly enough, at the bottom I was more concerned with letting Ukey & Paul know I was OK rather than seeing if I was OK. Paul had a few interesting slips on way down from top Survey point. Photographing in Great Beluga could become a new cave sport. Surveyed on down Shot passage & then down Thunder road. 3 people on Thunder road with helmets off for surveying is no joke. Surveyed down to crystal chamber, & then went out, stopping on numerous occasions to fall asleep. Each rebelay was a good excuse for a forty & sometimes eighty winks. Made the surface (not literally, ie we did not construct the cave entrance, sorry my mind is going) at about eight. Slept for an hour or so & then wandered back to Top Camp.

A MESSAGE FOR DAVE HORSELEY (? spelling)

Dear Dave,

since you aren't here and hence are unlikely to cave today and my helmet is knackered, and your helmet is a medium, I've borrowed it. Should be back tomorrow (Wednesday morning) if you need it. Hope you don't mind. Thanks

Jonathan xxx.

The State of Play. Tuesday 22. July.

2/6 - Roy + [illegible] Then Phil
L[illegible] [illegible] day Paul returns knowing 2/6 is not [illegible] cave and retiring for meal at Amaclares.
Quote of Expedition "Do you need a hammer for this driver or do you use a rock".

F20 Late start by Ukey, Dan and Jon.C (+Dave H helmet)

Two aborted trips.

20th July. Walked up to 2/6 c gear. On arrival re-rigged entrance pitch. Immediately afterwards I felt extremely sick & retched violently. Hence returned to T.C. and spent the rest of the day feeling rather queasy

21st July. Walked up to 2/6 c gear plus 100m rope. On arrival hung rope down entrance ~~[illegible]~~ shaft to untangle it. Whilst getting changed Roy asked me "Do you need a hammer for this bolt kit or can you use a rock?" I walked down to collect a hammer, met Phil, who was carrying one, but by now had had enough and wimped out to

Cargos for a swim and birthday feast.

Bl

Monday / Tuesday 21/22-7.86.

F20 Pushing Trip. Steve R, Mike, Ian.

Underground at 1pm. Got to the current limit in ~4½ hours, well guided by Ian and his plastic poles in Earnest Rift. The 'last' pitch, which Martin could not locate, was easily found by traversing forward beyond the end of Cataracity. Ian for rather longer than one would believe possible or necessary.

This pitch lands in the traditional roomy bit of rift, with wide traverses up, and the stream disappearing into a slot in the floor. After a food break, we solo'd up the wide traverse, and then into the rift. Soon, a short pitch presented itself. This was rigged, and descended to a traverse level about 15-20 feet lower. Round a couple of corners, it was with enough to descend further, after putting in a bolt & stringing the rope in. About 25ft feet of descent landed in another traverse level. From here, I (Steve) climbed down to the stream.

The last 20' of the climb found me bridging precariously across the rift. After my knees had stopped trembling the climb back would not be easy. An hour and a half of poor communication followed, as I

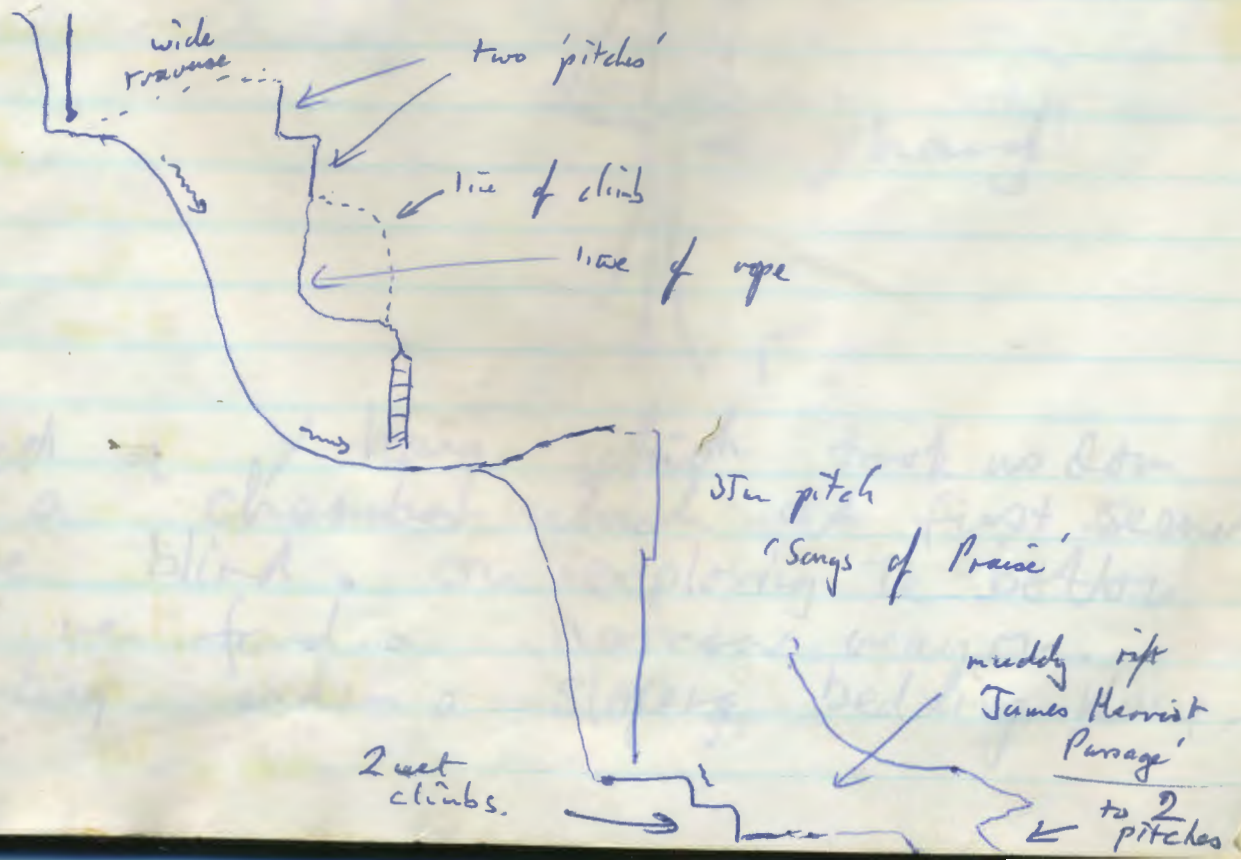
Tried to persuade Ian to sling a ladder down; aided by Mike, who climbed up & down several times. The ladder is a good thing, though.

Just round the corner from the foot of the ladder, the dry traverse level led to a sizeable pitch. Mike rigged this, and descended ~ 35m, unhooking to the last obstructive rock, which he could not hitch off.

The cave is wide at the foot of the pitch, and the stream quite big. Two Mendip-style wet climbs led to a rift, coated in mud & giving rise to thoughts of sumps. The roof was only ~ 6 feet above our heads. Ian climbed down & found another pitch into more big stuff. It was now midnight so we went out, with the odd bit of hassle in Blasphemy rift, a truly awful place. My croll kept slipping on the entrance ropes.

Out at 8am to the beginning of a hot day.

New Sit



We guess abt 70 - 80 m depth added, in very little forward distance. Thus the cave is ~ 360 + 75 = 435 m deep, and still a long way from Jorcad Blanca. The stream is cutting down very steeply. It seems likely that F20 is independent of the known sits of F2/F7.

'James Herriot Passage', because its like being 'stuffed up a cow's arse.

'Songs of Praise' - because it's before 'All creatures great + small'!

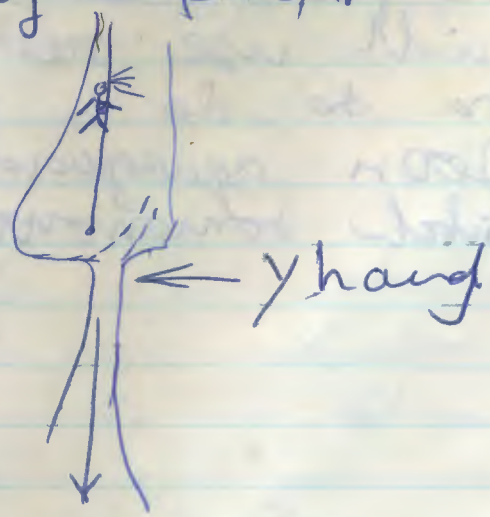
Steve

23/7

Uhey, Dave + John C. have still not returned (2.45 pm) from their trip down F20, starting at ~ 1-30 yesterday. We'll start getting organised soon. A wet + miserable day.

2/6. Phil D. Rory,

Paul Cooper and Rory set off whilst I Jarred myself bad temporarily into the day the idea of caving being totally abhorrent. Managed to avoid the F20 pushing trip and decided to do 2/6 as an "easy option" on leaving, took a bolting kit and met Paul Cooper on his way back to get the bolting hammer and carried on to the cave. Paul briefly decided to give up and go down for a meal so Rory and I decended. We soon reached the limit of vertical rigging and put a bolt in for the rest pitch. Decended to the top of another pitch ~~as~~ of the form:



Rigged a Y hang which took us down into a chamber which at first seemed to be blind. On exploring the bottom end we found a narrow rayon, crawling under a sloping bedding plane

leading to a further desperate crawl (The Crawl of the Wild) which to my delight finally yeilded a superb pitch with 4-5 second free drops, the boulders making a sound like trains coming into a London underground station as they plummeted to their doom. We spent some time lobbing rocks off in sheer delight and decided a bit further onto a ledge ≃ 5m below. We seemed to be in a massive wide rift and the ledge consists of jammed boulders. Having run out of rope, we ate, chucked a few more rocks off and went out. At the Y hang I investigated the continuation of the rift to the left hand side and found a possible crawl by pass. We will use the 110 m rope from tonto to do a rerig, and then use the 200m aquaguard to get down the big pitch tomorrow.

P.D.

Wednesday 23/7/86

Rescue Trip. Phil, Steve, Roy, Neil.

We have taken:

Food – packet soups – Bluets, chocolate, Tuna.

Medical – Suture kit, dressings, iodine, paracodol, feldene.

Cuside – 1 BPH cartridge full.

Several survival bags & pullegs also.

We have not taken the stretcher or the drip kit.

Leaving we about 6pm.

They are all OK slow due to light falures etc.

(56)

Ridge Cave 21/22 July

This is correct but out of sequence in log.

Martin M, Steve M, Dave R.

Intended to try to locate the high level route over the top of the "sump". Went to the limit of high level route dropping down into the chamber. Steve then continued down into the streamway to recover the tackle bags that were left behind. He returned looking very hot & dragging two large tackle bags behind him.

We then went back to the route above the chamber & rigged a traverse across a boulder ledge then dropped a rope over the end to try to find a obvious traverse level. Unfortunately there was no such luck & we were left dangling in space above the stream again, still on the wrong side of the "sump". I thinking I was only away for 15 mins, returned to find Dave & Steve frozen as that I had been off for 2 hrs. We then derigged back to the waterfall at the bottom of Thunder Alley, checking other possible routes as we left.

On the return I managed to kick off some boulders at the last pitch on top of Pebbles Flintstone. Be wave of this as it all fell on Steve who is now quite sore.

Martin

Please leave this page.

57

F20 Trip 22/23 July

Dan, Johnathan C, Ursula.

Having not been able to write this trip up immediately due to the medical condition "Manus Fucktelypus" many of the details may have slipped my memory. I Apologise for any mistakes, however if anyone wishes to make a formal complaint, it should be typed on headed notepaper and sent together with a stamped, addressed envelope to my address in college.

Meanwhile the cave trip :- We started at a moderate time of one o'clock, not wishing to embarress less enthusiastic cavers by setting off earlier. The entrance series was very efficient, and this general efficiency continued up to a pitch between Blueplanet and Ernest where for the 3rd time I got caught on a pebble and took an hour to get off.

From now on I was quite tender and much to my surprise found my way to the bottom of Calamity with few difficulties. Without too much difficulty the pitch the me and Johnathan couldn't find, appeared at roughly the same height in the cliff as the bottom (not the 1st place to get off) of Calamity Jane. Trotted off the ~~Calamity~~ Songs of Praise, Okay a-matchy and like moans when attempting to strangle herself on the short climb down where you don't follow the rope.

In Jane's Hermit passage the first sign of future problems surfaced, the my cabide needing a good poke before working again, splashed along the stream, having packed our gear into tackle bags and found lots of exploration, which is like a cows backside. Intrepid as ever I squeezed down the rift in search of the pitches which we were informed about. A ladder was fixed to make the ascent easier than as Dan Lottrach I looked for a less tight route through the cliff. A dark wide space beckoned and I slid down it to find no more rift. Instead a pitch whose bottom I couldn't see

Please leave this bag.

58

Pressed against the walls, the way back seemed incredibly hard, so when Dom offered his Donkeys back for support I grabbed it and swinged to a narrower but where I could traverse down. If I'd gone up where the hole was, I probably (50% chance) would have fallen and made life very hard for Dom and Ukey. As it was I was trapped for an hour on a fairly large ledge, adequately supplied with food so bloody cold, whilst the pitch was rigged. By the time the next pitch was rigged it was time to get out, the obvious way on a 30m overhang I had hung. Got off back out about two at night.

We took 16 hours to get out, for numerous reasons which will be listed.

- My bicycle light and spare generator getting blocked and not being cleared, so had to get lit at someone else before whenever it came out
- the getting lost in cliff before Colombia, and battle carbide electric going out.
* - Ukey getting stuck in climb where you don't follow rope.
- Ukey losing carbide generator bottom pain cliff which Dom found again. Very long hood strap.
- Ukeys light going between Ernest and Blasphemy so had to be guided through cliffs.
- My electric battery running out.
* - Ukey lost in wire cliff before entrance series, Dom went back along it twice, she had gone up label which Paul surveyed without instruments due to failing light. & no contact lenses
- 2/3 people going up entrance series with no light.
- 1 fall

I got out at 5.30 and after 5 minutes the rescue party arrived, looking very worried - THANK YOU. The other two emerged in the next hour, Ukey with broken footloops.

- I won't go down R20 again this expedition. Will the rest of the expedition kindly hollow it before I come back

J. C.

* due to mud in contact lenses argh!

24 July.

Dave H, Phil D, Roy T.
Surveying trip down 2/6.

Martin M, Steve M
Trying to find route through Ridge cave at stream level, have taken survey gear to use it unsuccessful.

24 July RIDGE CAVE Martin M, St

Intended to go to bottom of Ridge to try pass-through boulder choke. On the way down put a bolt in on the pitch into big beluga so that the majority of pitch is now clear of the crud. The bolt hammer & anchors are at the top of thunder alley. Slipped into the traverse line have taken the diver to base to put a new thread on.

Once down into big beluga we regaged the streamway at the bottom I remembered I had left the tape in crystal chamber so returned. In doing this I noticed that a very sharp rub point had gone to the core so replaced the 20m 9mil with 20 10.5mil plus rope protector. Unfortunately the rope was too short so there is a knot dangerous at the bottom of the pitch so rerig with a 25m rope. In the stream we tried pushing the choke & removing some boulders. This proved unsuccessful.

On the way out we surveyed through from

the sump to crystal chamber. Unfortunately we had no Idea of where the last team survey station was so someone has to climb up. The station in crystal chamber is the wall opposite thunder alley and about up the wall. There are prominent S's marking it.

At the other end the survey station is before the "sump" on the downstream looking left wall, again marked with the S.

After 20 survey legs we exited the very cold but managed to climb up.

Let it be known that although the was good it was just one of those for me

1) left helmet in camp, had to walk back to camp from ridge
2) got totally stuck in mucky canal so Steve rescued me
3) left half of hand on wall when putting bolt in
4) left tape in chamber so had to return up wet pitches
5) had to bring wet pitches due to rubbish rope.

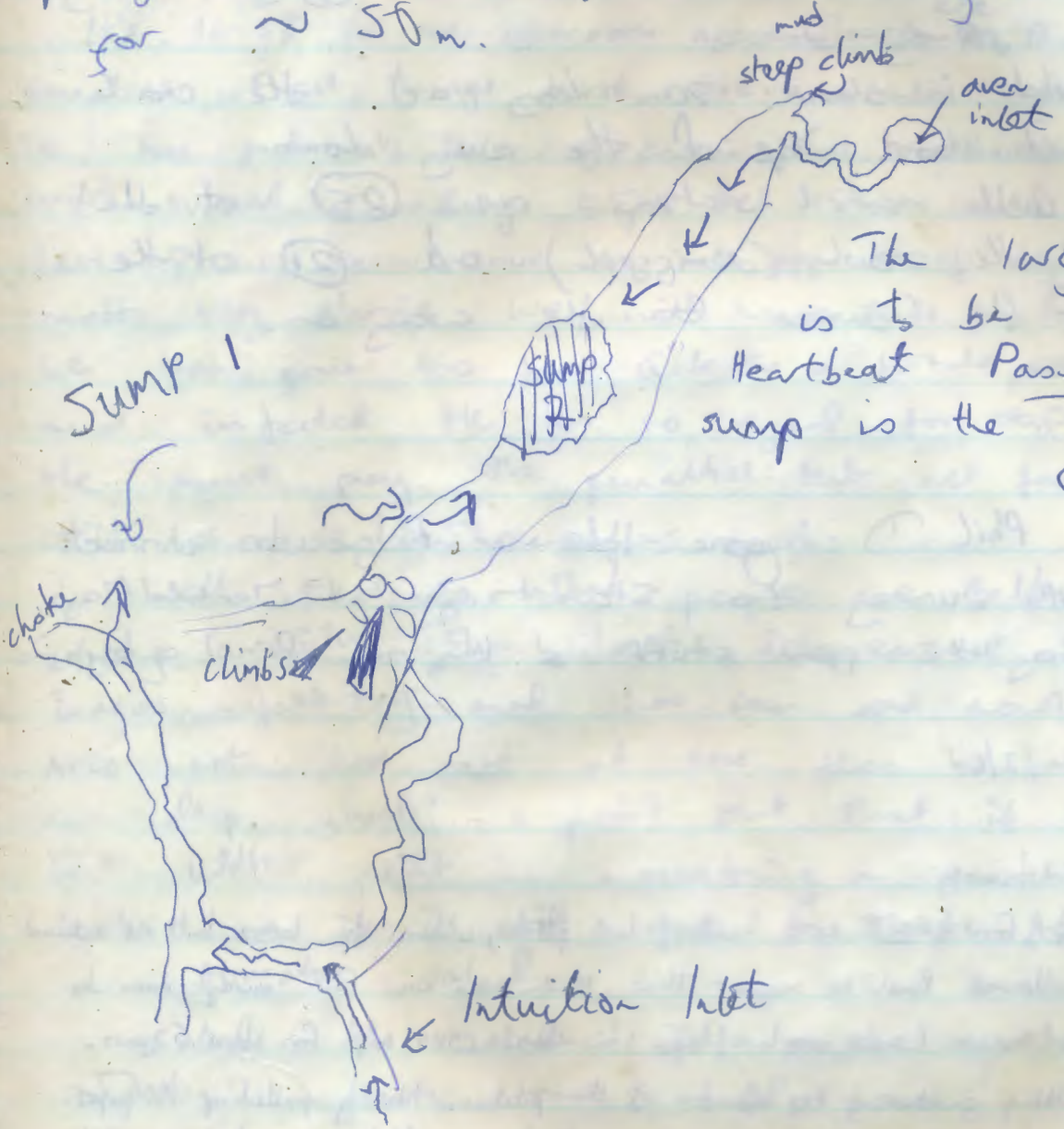
It was quite surprising. It was such a good trip actually.

[signature]

25th July: Paul B. & Graham. Ridge Cave
16 hours. Pushing.

Got to the bottom rerigging one of the streamway pitches as we went down. Spent a couple of hours hammering and trying to insert ourselves into the hole. We got bored and so we buggered off to look for a high level bypass. We climb up the last inlet

before the sump. About 15m up is a fossil passage off to the left. We followed this down into a large chamber with the stream at the bottom. After 50m of large passage there is a large sump pool but the large passage continues with an inlet flowing along it for ~ 50m.



The large passage is to be known as Heartbeat Passage. The sump is the Topographic Ocean.

24th July 2/6
Dave H. Phil D. Ray - Surveying & pushing trip

Interesting surveying down the big entrance pitch, hanging for hours at all the rebelays. The rest of the cave was easy to survey most of the legs being vertical. At the bottom of the pitch rigged with old Marlow

There is an obvious survey station marked with a cross and an 'S'. The next pitch is gained by traversing around the corner to the left. Originally, the cave continued down a 7 hang pitch to a tight crawl. We surveyed down to here as well before derigging, leaving another obvious survey station.

The new pitch is about 70m long and the crawl connects into it about 3/4 of the way down.

The two well marked stations are (25) at the beginning of the crawl (derigged) and (21) at the beginning of the traverse to the way on.

26th July 1980

Dave H. & Phil D gone down Ridge to connect Uhay's, Doris & Paul's survey to Steve Mayo's & Martin May's and to survey the new stuff & try to find a bypass

25th July 2/6.

Paul Cooper & Martin Laverty.

Took new 9mm rope, food & cowlside to head of last pitch, where the loose bolt & awkward takeoff & lack of bolts allowed Paul to suggest that Martin was now fair enough down to begin practising sit stand (sanity at last!) on his first SRT trip for about 5 years. ~ 6hrs in all, including gardening top of one of the pitches & having pulled up the rope.

Dave Rose, Ian Houghton 25-6 July. F20 17½ hours

A NIGHT IN AMNESIA

It's 14-38 in the afternoon now. There are Ricard, tomatoes. First things first: STEVE GALE IS A PSYCHOPATH. He has put 4½ kilos of carcinogenic rhodamine in Orcadi and turned Covadonga bright red. This could be our last Picos season: ICONA do not approve of dyeing Spain's most holy shrine. We will have this prick. This time he has gone too far. Gale is a fistula, festering and infected. He has no regard for the human race. He must pay the penalties: but all fear that it will be we who suffer most.

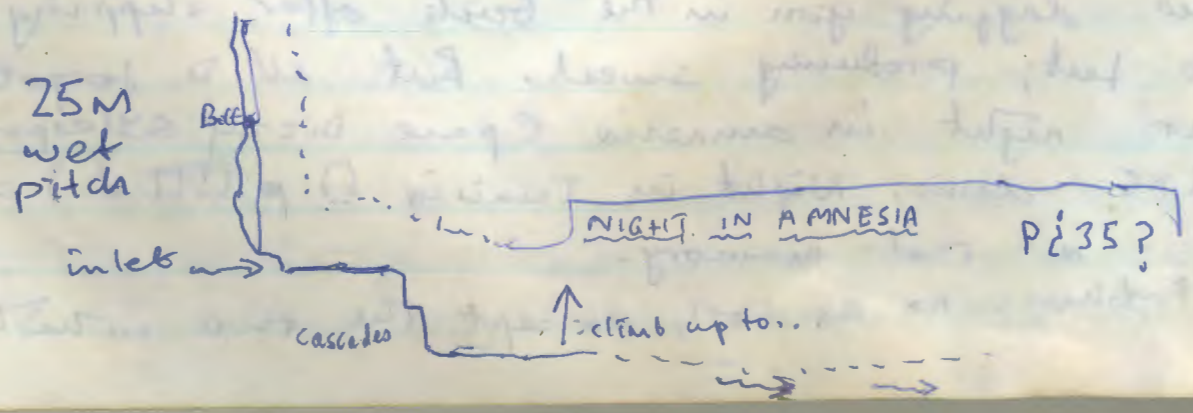
Well. That is what people are talking about, along with John Wilcock's disappearance. He left Lagos yesterday and has been seen nowhere: not at Ario, not here, not at base. Has he fallen down a deep shaft? I point out that if he has, there is little point in mounting a search. But it looks as if it will come to that. After I make a tomato salad.

Salads. Ah, salads. Life, on the surface. Last night I know we had no salad, but I recall little else. F20 is a cave. It has an entrance series, then many ruts. They pass: dagging you in the back after slipping a few feet, producing sweat. But all is forgotten. Our night in amnesia (pace Dizzy Gillespie's 1945 classic, Night in Tunisia [illegible]) is not a real memory.

Problem: no anchors, except the two which

Ian had secreted about his person. So we could not do very much. We went down the wet pitch, ignoring the v. poor bolt of the previous team, Ian using his anchors speedily and judiciously. It was about 25 m, to a big wet chamber with an inlet. Cascades: comfy, exciting: perhaps some roomy streamway to a series of big pitches riggable from naturals? Alas, no. The worst rift yet: tightest, and covered with lacerating crystals. Worse than Hammer Pot. After tearing off the leg off my overall it allowed his access to the top of a pitch, below which things looked bigger again.

Here I espied a climb up and after 10 m hit the roof — a larger, easier tube leading to the top of the same pitch... needing bolts. We followed it back to the end of the cascades and climbed a long way down to the stream — a handline would be useful. This will be the route to be used. Then exit: many squares of chocolate, Greathers, Thrutches. Did the entrance series in 75 minutes. 7 hours out from the bottom — still reasonable for the party free of cock-ups. Got, too too. There is a lot of rope at the bottom which we could have used. If F20 goes into FU56 I will be astonished.



Ian added a further name. The long and devious passage between Blasphemy and Earnest is to be known as THE LAND OF SPIKES.

26/7 Quotation of the Day:

Paul "... 'cos it's a scrofulous little hole!!" Cooper

(Your doctor advises you to avoid F20.)

27/7 Dave "If ever there was a Beam-me-up-Scottie place its the bottom of F20" Rose

---

24/7 John Wilcock and Graham Naylor arrived at Base Camp from the ferry after traffic jams at Torrelavega and St Vicente de la Barquera. At Cangas had large shopping trip after customary visit to the Bar Rio Grande for tortillas and wine. On the way up in the mist met five coaches coming down all at the most hair-raising corniche bends with us on the outside – quite a driving experience with the van. Brought out from Oxford Graham + kit + remaining food (1 box Mayflakes, 3 John West fruit), + large box of rope and other gear from Lyon Ladders). This rope was immediately set upon and transported up to top camp by Ian, Dave & others, since rope was at a premium. Graham also went to top camp.

John W.

24/25.7 Found everybody subdued and listless at base camp. The reasons for this are obvious from reading this log – three major pots c. 500m in progress, and trips of long duration and great severity. Also some near disasters – Fred and his boulder, stitches, X-rays, cut hands, overdue trips and "rescue" trips, not to mention lack of transport due to the demise of the Yellow

Van — my compliments and respect to you, ladies and gentlemen. Keep up the exploration pressure!

There does seem to have been a long delay from the start of the expedition in laddering (oops — you can see my age showing!), or tackling these pots, however, and there is a notable reluctance to mount trips, especially to F20, until 11am or 12 noon.

On the morning of 25/7 the diving expedition arrived (Danny + Co), but without decompression tables! A visit was made to the upper bar, which was crowded because it was the Fiesta del Pastor in Vega Enol + holy day in Covadonga (the Rhodamine B carcinogenic "Blood of Christ" episode was highly irresponsible, especially since the through connection was already proved). The whole of the Vega de Enol, Ercina and intervening roads were jampacked with cars and many coaches — most depressing. I walked round lake Enol to the Enol refuge (1961 Expedition Base) for old time's sake and found things much changed. There were no such crowds in 1961 — there was no metalled road above the farms at the second Z-bend out of Covadonga, and no road to the Enol refuge. The large crowds were watching horse races, and there a few, obviously artificial folk groups in traditional dress + bagpipes, and many beer tents. Quite spoilt from 1961, when it was a simple feast for the shepherds, who came with their sheep, played bagpipes, danced and got drunk!

John W.

"A Silver Return"

25/26.7 Random meanderings in the Picos — a comedy of errors with a much-travelled pack.

Left 2.30 pm from Lagos for a trip to Top Camp. This was my first attempted post direct from Base Camp to Top Camp. All went well until BC3, although it was extremely hot

and legs were weak due to lack of altitude acclimatisation. Left Ario path near top of BC3 where the Central Massif peaks come into view (later than the approved point at the base of BC3 by the sheepfolds, I now know).

I had remembered from my two previous visits to top camp, albeit from Ario, to "keep high", and keep high I did, but confused El Joon for Jorcada Blanca. I soon found myself looking down on the pass at El Joon, the large snowfield / scree slope of which looks remarkably similar to the one behind top camp. Mistaking this for Joos de Pena Blanca I then went lower, expecting to find top camp "just round the corner". As the light faded I pitched camp on a grassy knoll below what I now know to be El Regallon, about 1 km from top camp and 100 m lower. Actually I spent a good night, since I had tent, airbed, two sleeping bags (inner & outer), water and iron rations with me. Earlier I had seen two large groups of rebecca, and the night was very still, with half moon and rebecca grazing around my tent later on. I had a superb sleep.

Arising at 7.30 am on the 26th I persisted with my quest for top camp. Believing myself to be east of top camp (the view of La Verdelluenga + Spike was not yet correct) I went west over extremely arduous country. By the time the view of La Verdelluenga + Spike became correct, I was on Conjurtao ridge, but north of the pots 1/6 and Ridge. There was still no view of top camp (I was too low). Before long it became obvious that the ground was falling away to the north west, obviously wrong, and to compound it all mist descended. Later on it cleared momentarily to give me a surprisingly dramatic view of Santa Maria de Enol which of course I recognised. I got a compass fix on this before mist descended yet again. I decided that the best plan would be to make for the Ario path and Ario itself, where I guessed I would be looked for. So I descended to Vega las Fuentes (the water was beautifully sweet to my parched throat

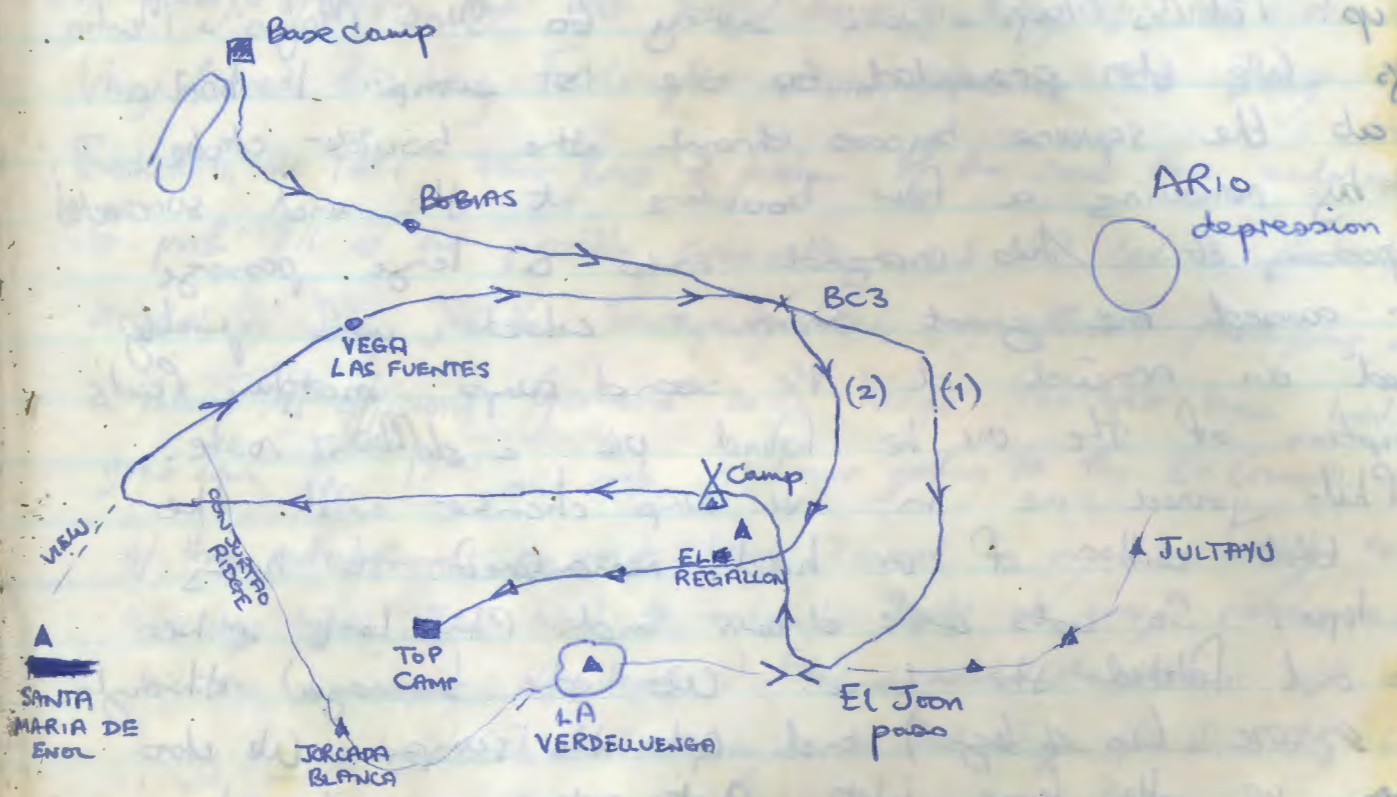
and lips) from where there is an easy track to the base of BC3 on the Atio path. I was sitting there resting to see if anybody came up or down, when Jonathan C. arrived. He gave me some Tuna, then showed me the first stages of the direct top camp route (a winding gorge up the hill) but then left to contact other members of the expedition we could see en route from top Camp to Atio. Actually I might still have not found top Camp, since this was becoming very much like last time round, had not I shouted and been contacted by two other members out looking in Vega Aliseda. Gerhard was very kind in giving me some Bobias water and carrying my pack in the last stages. Bravo, gentlemen, and thanks for putting up with my inadequacies. It could so easily have been worse. Top camp was like an oasis in the stony wastes. What a way to treat a pair of boots, and I am not 24 any longer!

The lesson (moral) to be learnt from this exercise is that everybody not completely sure of the route to top camp must be accompanied by somebody who does, even in good weather conditions. Unaccompanied persons could easily break a leg, or worse fall down a pot, and nobody would be any the wiser.

This was a record 30 hour trip Base to Top Camp (excluding Ukey's 3 day effort).

Approximate map of John's tour of the Picos (estimated at 25 km) plus pack:

(Not to scale)



Well, I hope you all have a good laugh! I saw many shafts en route (wish I could remember exactly where they were), rebecca, Millenkarren and Kamenitzas of superbe forms, etc. I also know much more about the topography of the top camp area! PS the German 1938 map of the Picos is awful and the Xeroxed one not much better. John

27/7 Take note — food tent has now been cleared out and reorganised. Lets hope it stays that way for a while!

Bog rolls have all been moved to green tent near bog path — more convenient & more hygienic.

John

(70)

26/7/86

Phil D & Dave H. surveying & pushing in Ridge.

Arrived at crystal chamber and surveyed one leg to link up Pat B's Uhey's & Dan's survey to Steve Mayes & Martin Mays. We then proceeded to the 1st sump. I had a look at the squeeze bypass through the boulder choke and by removing a few boulders at the end, succeeded in passing it. This emerged into a large passage which caused me great excitement which was quickly damped on arrival at the second sump matching Pauls description of the one he found via a different route.

Phil joined me in the sump chamber with the news that neither of us had remembered to bring the tape. So lots were drawn and Phil lost & he went and fetched the tape. We then surveyed through the squeeze (in 4 legs) and onto the sump. We also survey up the large inlet that enters opposite to the water from Ridge

The sump is very impressive, a beautifull translucent green with an obvious descending passage (ó to be a cave diver!) the inlet draughts strongly inwards as does ridge in the Big Belugas so there may be a sump bypass?

27/7/88 – 28/7/88 Triumph & Tragedy in Sistema Conjurtao

First Sequel (by Gerhard)

On Sunday afternoon the last Ridge Cave pushing trip set out: Ukey & Fred, this being Fred's first caving trip since his Being Bashed In the Face, Dave Rose & Graham at the same time undertook to push 2/6 to the possible connection, and Neil led a photo-trip assisted by Dan, Jonathan Townley, Gerhard's very efficient flashguns and a rather less efficient Gerhard down Ridge. The latter team had gone down by 12^{30} and took 4½ hours getting to the Big Crunch, most of the entertainment en route being caused by my top-heavy tackle bag and my tripod, which tried to entangle itself at every rebelay (not to mention backsaps). Goodness, I didn't remember the various rifts as being so narrow! I must apologize to Paul Cooper for discarding his view that 2/6 was far too big to break into 1/6; Ridge Cave is indeed a rabbit warren compared to the Shaft. I crashed down Nick's Canal rather to speedily, spraining a finger joint and spoiling my good humour in the process. The improved rigging of Fred Flintstone cheered me up again, and landing in Dinosaur Beach again after nearly a year made me positively euphoric. However, when we were at the Big Crunch at last and Neil had taken shots of JT worming his way up Fred's Folly I felt too tired to go on safely. So Team Photo split, Neil & Dan continuing to the Big Beluga and Johnny coming back to join me. We spent an entertaining hour taking pictures (with a magnesium volcano) and collecting drip water and measured the air temperature to be less than 2.5°C. After this we moved on to D. Beach... I stepped round the corner and shouted and jumped with joy! There was the white 9mm Beal dangling down right in the middle of the chamber! Unfortunately we had missed the

[redacted] (Got Pooper on this one, after all!) big breakthrough, Dave R & Graham having landed around 6pm. Well, we took another string of pictures, measured the air temperature to be 2.0°C, and decided to continue the photo-trip up 216. Both caves photographed in one trip! But fate would have it otherwise.

J prusiked up the Beal, swore at the rub points, asked Jonny to bring up an empty tackle bag (he also found some 'tectors), and we padded the thing a bit more. Fun to look across to the rope on Fred Flintstone. We were about to look for the way on when we heard Dan shouting something from below. The echo made it quite hard to understand his words. What? an accident? Ukey? Go out as fast as possible - get Paul Cooper down? Oh shit. We dumped the photo stuff and ran along the one obvious route off, while Dan went up Ridge Cave. After some slim traversing at high level in what seemed to be Upper Lower Streamway Upstream, unfortunately damaging some of the fossil stal in our haste, until the right looked like it was about to close down. Getting lost in newly found passage was definitely not on, so we beat our retreat to Dinosaur Beach and followed Dan, not very fast although without luggage. Met Martin, Mary & Jonny Cooper going in above the Axolotl (aargh) and surfaced 3^30 am. Lovely warm starry night, though very windy. —

What happened elsewhere? Richard had arrived at T.C. at nightfall and set out to descend 216 after a short stay. Ukey, Fred & Neil were making slow headway outwards, taking the 216 route. Dave H & Ian H enter the following morning via 216 with sleeping bags, food, carbide and water. Fred had got out that way already by 7am reporting Martin, J. Cooper, Neil & Ukey to have reached Dinosaur Beach. Dave Rose, Graham & I are to go up to 216 entrance shortly to prepare a hauling system if necessary... (28/7/86 10am)

PS. Neil & J Cooper arrive around 11^am, Dave R & Gr. set out (without me), Graham returning 12^45 with the relieving news that Ukey is back to surface. Thank Goodness.

27. July. Dave R, Graham.

Connected 2/6 to Ridge via 25m pitch into Dinosaur Beach. Should make system c. 650m deep but not the deepest in the world. Pausing for thought I remarked to Graham: "well it should make a rescue more feasible..."

27 July Ridge Pushing Fred + Ukey.

I walked up early from Base, and as usual we took hours doing little things before getting down the cave just after 12.

We headed down to the crystal chamber, where we picked up some tackle, wires, tapes, crabs, hangars, 20m marlow and an humanlike thigh speleotope ~ 50m.

The "great big" streamway was not all that big. We hurtched along it with the tackle bags to an inlet on the right hand side with earbiece marks in it. Martin and Steve must have had a heroic trip surveying on this! We thought that this was probably the way on, so we left the bags to look at the sump which was slightly reminiscent of the streamway deep down Cebega mine, but nowhere near as pretty or spectacular.

We went back to the inlet, had a fettle and started to look for the way up. However the eminently gur rather bared, and signs of human presence began to fade.

We went down to another inlet lower down, but it was rather nondescript, and

again there were no signs of people ~~we were~~ ~~both climb~~

We were both climbing up and looking around when I heard Mikey slipping and swearing. She hit the ground, and I shouted, but there was no reply. About five seconds later I shouted again and she's replied.

She was lying on here back in the stream, unconscious and coherent. She said that she couldn't feel her left hand side, and that she was deaf in her left ear, and dizzy. Her back was not sure, she didn't have any internal injuries, and there was no blood coming out of her ears. She said that she had fallen 15 ft onto her head. She mentioned something from Tuni's notes saying that if you were bleeding inside the skull you would die in 2 hours.

I tried to sit her up, but she went very dizzy, and had to sit down again, so I put a load of rope and tackle bags underneath her, generators inside her furry suit, a space blanket over her, and cuddled up as close as I could.

Still she was getting colder and colder, and eventually started to shiver uncontrollably. I was very scared, stuck 600 m down a cave with somebody who couldn't even sit up, and was rapidly getting hypothermia. I thought that in hell an hour I would be lying beside a dead body.

"I had better sit up" she says, so I hauled her up and we sat back to back for a while, supporting and warming each other. Gradually she began to feel less dizzy. It was OK!

We sat for a while, and ate some pineapple and fish, and then tried to stand. She couldn't stand by herself, but ~~I hugge~~ unwrapped the space blanket around her and hugged her to keep her warm, and held her up. Eventually we were ready to start moving.

She couldn't put any weight on her left arm. We made our way slowly along the streamway, using climbing tactics to overcome the obstacles. At the pitches we met Dan and Nick coming down. I sent out Dan with details of what had happened, and Nick stayed to help.

Times.

Fall ~ ~~8~~ 6oc.

~~Slet~~ Set off ~ 7oc

Meet Dan and Nick ~ 8oc

Nick was a tower of strength, and we made our way steadily but very slowly to the Big Chamber, me in front, backing the unbelt, Nick behind.

I waited for hours in the Big Chamber while they did something at the top of Fred's Folly. By now it was 2 am. We were running out of food and candles, likely oversight was the tapers, and I was getting very cold and tired. We received another hour ~~wait~~ until help arrived

We made our way to the Dinosaur Beach where there was a load of carbine and a new rope hanging down from the roof. The 2/6 connection!

We decided to go our by 2/6, and left the tattered remains of the space blanket in a sort of arrow pointing towards the rope. I went up the rope and Mercy started to follow. I stood at the top and heard the distant rumblings of people approaching. Mercy by this time was very slow, falling asleep on the pitch, and taking 10 minutes just to take off a rope protector.

As she reached the top of the pitch Paul C and Richard arrived looking full of beans and carrying warm clothes and food.

I was feeling very cold and tired, and felt that if I stayed I would be more of a liability than an help, so I headed out with messages for people at Top Camp.

I struggled pathetically slowly up seemingly endless shafts, occasionally stumbling around trying to find the bottom of the bits of black rope. I was absolutely shattered when I got out top a wide windy down on the stage at 6:30. I got back to camp, told people the news and went to bed.

If anyone who happens to go down to F20 near the limit of exploration and sees a tape with two knots in a donkey's dick tape arrangement which may or may not be attached to a rope of ~ 15m length, then please bring it to the surface and arrange for it to be returned to me, eg. By putting it in the bag of my stuff which I will leave behind, then I shall be eternally grateful. If not I shall be eternally ungrateful and short of two knots.

Yours affectionately Jonathan Cooper XX

what do these mean - Dr Dr ?

My many thanks to Fred & Neil, without whom I would never have made it to Dinosaur Beach (and who got uncomplainingly stood on and cold); to Dan for going out as fast as he could and announcing to a sleeping Top Camp at midnight: "You'd better all get up again"; to Paul & Richard, team Medic, whom I was very glad to see; to Dave & Graham who'd earlier that day connected 2/b and Ridge, making everyone's life a lot easier; to Martin who made my light work by the simple expedient of taking it away at intervals and giving me another one; and to everyone who carried stuff down and fed me chocolate and fruit and told me that I would be OK.

Upen

Dave "I know the technique of fire walking" Horsley

29/7/86 7.30am Gerhard rolling off downhill with empty bottles, empty BDH, rubbish. Hope to be back tonight. Have fun in Ridge - see you there. G.

(78)

29th July

To Bottom of Ridge to push, take photos & bring out Neil's camera gear:
Martin, Dan, Roy.
To detachable Ridge from Dinosaur Beach:
Paul B, Johnathan C., Johnny T., Dave H., Martin L.
(2 Johns & Dave going down 2/6)

Gerhard arrives at a lonely Lagos 10 am-ish. Everyone bar Marcus gone to the beach. We leave one diver to guard camp and drive to Cangas to go shopping. The Bar Rio Grande is closed till 1st August and is changing ownership! Had lunch at the Puente Romano. Met Everyone on their way to the beach in between. Phil D & Paul C. asked us to buy some contraceptives but I left this responsibility with our doctors!

Stopped in Covadonga and went up to the Cueva Santa and to the Cathedral - maybe as a Thanksgiving for Fred's recovery and Uhey's rescue - for those who care about such things. The pool is still unhealthily red.

Afterwards we packed, had a brief swim in Enol (resp. a short sunbathe for Marcus) and ran uphill, 4½ hrs, quite good for an out-of-practice Marcus with a heavy pack. Met Sno robeca in the Jou los Cuevos. Blazing heat most of the way up. Argh. Graham receives us with a brew - worthy man. Now I'm off to Ridge to help hauling...

9 pm Gerhard

29th July 86: Ridge Derigging.

Martin L and I went down Ridge and met the others at the top of Fred Flintstone. From here derigging was fairly efficient with the only problem being caused by the mega-heavy bag containing the 120 m rope. Jonathon C. blasphemed a lot and was v. tired and so went out early. Gerhard came in at 11 pm and hauled the heavy bag up Dancing in the Dark. Out at 3.30 am after 13½ hours of good stuff.

Paul

P.S. The handwriting is much better as the festered fingers have now recovered.

Additions - a) Nobody seems to have noticed that once more I carefully avoided passing the Axolotl... hehe...

b) Martin L came out of the cave with a 3m long tail of Marlow, which Jonny T was using as a lead!

Gerhard

Who said of what (at the entrance to Ridge):
"Actually, mine is pretty distinctive". ?

Who said of what (at Top Camp):
"I know it's easy, it's just not my idea of fun".

Answers on a postcard ....

(80)

At last the time approaches to say Adios to Hop camp. Fond memories I shall savour from this humble dwelling place which I shall not have bought by repeating. In case I forget 5 trips down F10 ripped the heart and soul out of me, but having participated in one of the 4 trips which pushed 2/6 to Ridge this gave some relief. My one claim to fame is that in Ukeys rescue and the Ridge derigging I may be the only person ever to do the 2/6, 1/6 connection both ways. Unless you know better as they say on That's Life.

Anyway it been great t'up here and I hope next year, there will be more grass (and if possible F10 pushed into FU 5/6.

Jonathan Cooper

P.S. My gear still at Hop camp includes 4 krabs, two down F10 + two down 2/6 and one furry. I hope they come home. FOUND

P.S. I may also have left my Yellow Vam Sweat shirt behind as well so please don't take it with you.

Ridge 29-30 July. Dan, Martin M Roy

An amateur photography trip/pushing trip. Went down 2/6 following the ridge detailing trip. Fairly efficient, down to Triple Chamber, & then, into the streamway. My 4th trip down Ridge & I might actually get to the sumps. Picked up photography gear & made our way thro' the squeeze to the final chamber. Explored an inlet & climbed over a rock that was so thin light could shine thro' it. Explored

an inlet to a small chamber but air & water both going wrong way for a sump bypass. Found a 15-20m pitch that drops down into large inlet from ~~sump~~ sump I to sump II. Took photos - I don't suppose they will come out but you never know. Yorkie Sponsorship shots were fun to do. Came out v. slowly - I think we managed to wear Ray out. Why we didn't find a sump by pass but a brilliant last trip.

Now for the boring bits. -

On expedition I HAVE LOST

1. Whitish sun hat
2. Swiss Army knife (6 blades marked black & white)
3. Silva compass on red string

& for the even more tedious part: -

I WILL LEAVE A LIST OF PEOPLE WHO OWE THE CLUB MONEY AT BASE CAMP. PLEASE GIVE CHEQUES TO PAUL B.

Sorry. Ian

Best of luck with the rest of the expedition. Wish I could stay, honest.

See you all sometime

Ian

(82)

30/7/86 Tourist walk of the Spanish Branch (Carlos & Marco), ½ of the Dutch Branch (Paula), the German Branch (Marcus & Gerhard) and the one and only Martin Laverty representing OUCC itself to the one and only Ridge Cave. Picked up and brought to Top Camp the four remaining tackelbags for which many thanks for the efficient help of the Spanish Branch; left the anchor grease at the entrance to be taken up to 2/6 (the tin is quite empty though)

G.

~~Hoeda~~ We have had a good time here! A bit cold ~~[illegible]~~, but good food! Thanks for all!

(When you are in Holland you're welcome)

PAULA

Netty

Okanjestraat 45
Arnhem
Holland

Netty Nop.
Kraatsweg 25
6732 EV Harskamp.
Holland.

my parents adress
course on this mo-
ment I have no home.
letters are welcome to.

31/7/86 Dave Rose & Spanish Branch to Ridge Cave via 2/6

Geoff, Ian & Fred : F20 pushing

Phil D & Paul C : pushing alternative route in 2/6 below 5th pitch

Marcus & Gerhard surveying & tidying camp

Richard, Graham & Dutch Branch to desperate enterprise in the Valle Extremero...

Martin Laverty off to Base Camp.

Dave Rose: a) When you go down to Base, please take Martin Lowerty's survival bag with you. It's in Paul C's blue tent.

b) Please leave us your London address:

90 Lady Margaret Rd
London N19
01 607 1290
278 2332 ext 3306 (work)

Manuel Cañameras, Carlos Galan, Dave Rose
31/7/86

Tourist trip in 2/6 → Dinosaur Beach.
A very good time had by all. Carlos + Manuel took photographs + we discussed possible projects: USSR, Turkey, cooperation to get sponsorship.
Long live international collaboration among speleos!
Muy contentos por conoceros!. Los 400 mts primeros de la sima Conjurtao, divinos; ojalá todos fuesen iguales.
Esperamos que este primer contacto sirva de precedente de futuras expediciones mixtas.

Richard "Infidelity comes to me so naturally" Gregson

Phil "In fact I think I'm going to take all my clothes off in a minute" Duncan
(referring to the lack of central heating in a cold-ish Top Camp)

(94)

The Ridge cave alternative 31/7/86

Paul cooper, Phil Duncan

Now that Sima contortas has a sensible entrance series totally untainted by tight amphibia, and which adds a good few metres onto the total depth of the cave, ~~[illegible]~~ all is well and good. But not only is our entrance to this fine system facilitated, there is also an alternative way down via a bag of shit, (Richards) and a blind pot with a nasty scrofulous crawl at the bottom to another pitch which is leading AWAY from the route to ridge cave. Paul and I have rigged part of the way into this fine shaft and somebody needs to go down with more rope to finish it off. We had a good leisurely trip out come out in the fortea and sunset. ~~[illegible]~~ watch this space!!

The situation is that the pitch is rigged but needs a deviation or rebolay about 40 m down. a tackebag with ~~[illegible]~~ 30m rope in it is hanging on the end of the pitch rope. Maillons and hangers + a bit of food and carbide (1 stinky fill) are at the end of the crawl.

P.D.

POEM

So
Farewell
Picos again.

They say FZO
Is going.
Fuck. I would have
To go to work at just the wrong moment.
And also
I appear to have missed out
On the Dutch branch.

Keith's mum says life
Is often like that.
But still
Coming to the Picos
Is a good crack.

Oh god.
I'll have to come back
Again.

D. Rose (aged 27) (too old)

P.S. Good luck hombres. You can do it. Make FZO prove the Gale hypothesis wrong!

(86)

E20 Trip

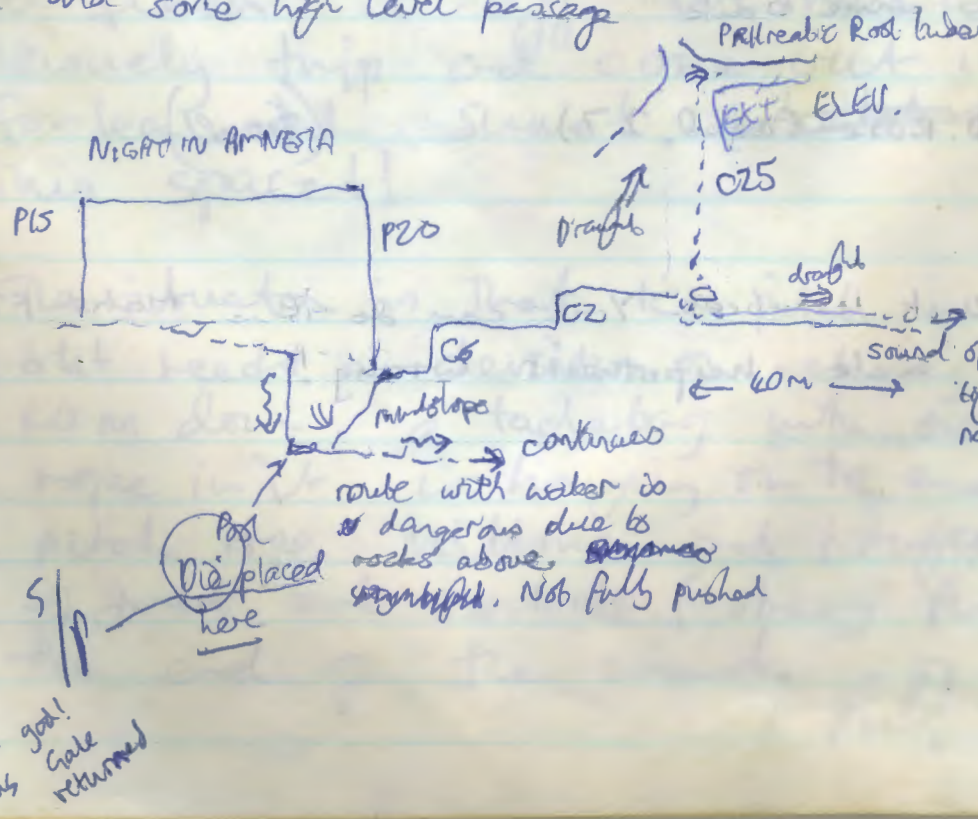
Thurs 31st July and Fri 1st Aug
Merantine Flavine · B583 Die

Ian H., Fred W, Geoff.

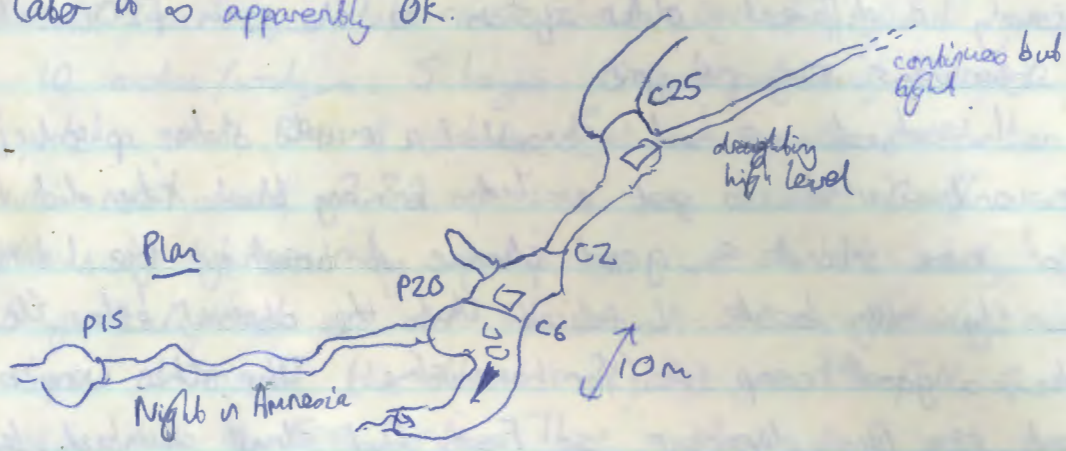
At last the long awaited pushing trip materialised. The team were well prepared for the occasion, Ian with lack of sleep, Fred walking up from Aria after the previous nights excesses with Bloos + Julian, and Geoff wanting a gentle warm up first trip.

We got down at 12:00, after Fred + Geoff had glued up their suits - while wearing them! We had only anchors + wedges to carry so were able to reach the limit of exploration by 4:15. Fred climbed up to a 'night in amnesia', rigged it as a pitch, placing 2 bolts. It's about 15m long we used a 20m rope.

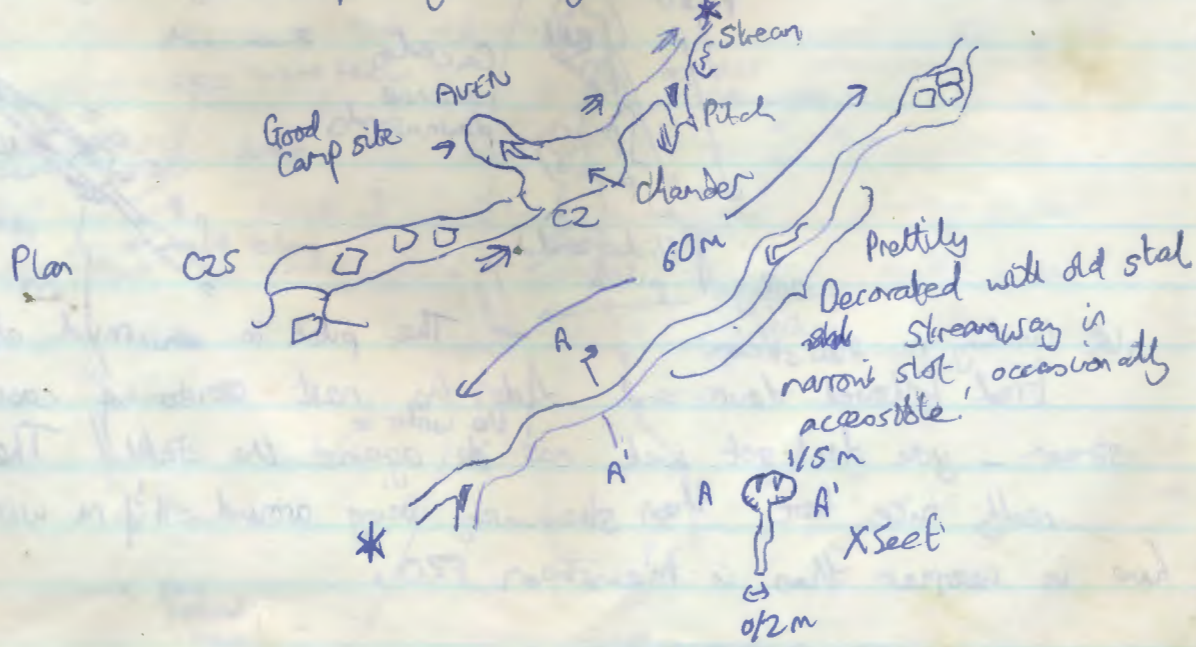
We then dragged our 3 bags along the roof tube to the undescended pitch. I placed a bolt and used a large flake to protect myself. I found a natural back up + descended. En route I discovered a huge stack of unstable boulders and started kicking them down, only to be told by Fred that this was apparently destabilising the large flake I had used for protection - this was some 15m higher! I landed in a large chamber and the others followed down. Downwards led to the stream, upwards to an old inlet and some high level passage.



Fred then put the die into the stream; Meandering Flavine B583 at around 6 or 7 pm. Geoff had a go at the streamway route, finding its passable as a rift. The early part is rather in danger from rockfall, later it is apparently OK.



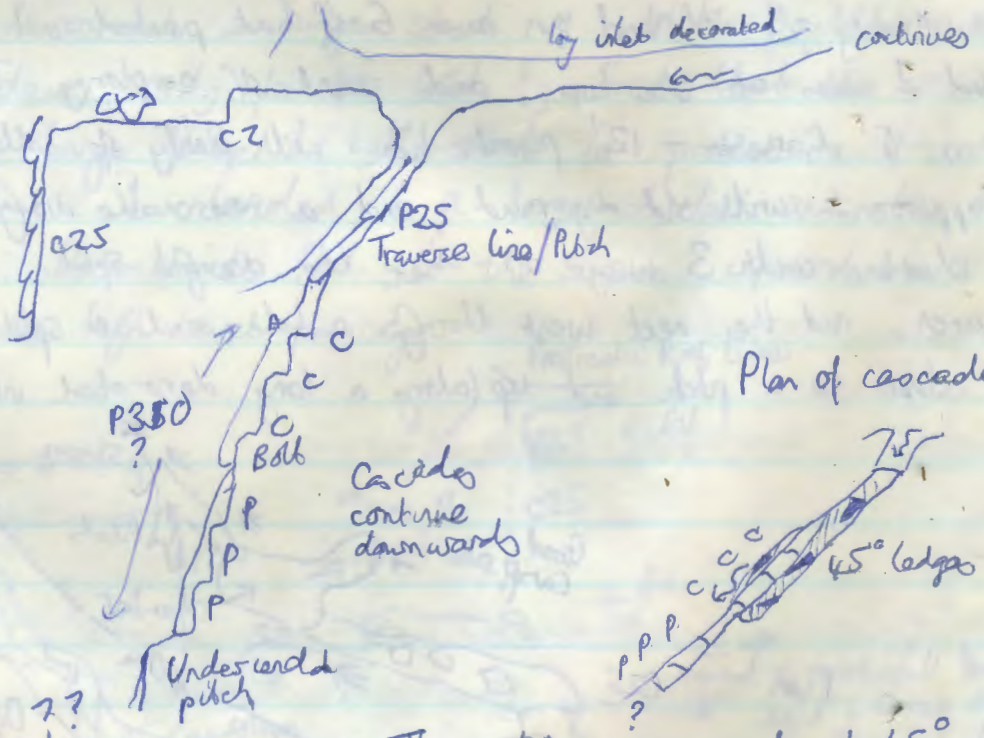
We all then had attempts at the draughting higher levels, one being a horizontal tube that gets progressively tighter and looser but a large waterfall can be heard. None of us reached it. While Fred + Geoff were exiting, I climbed an aven Geoff had pointed out. When the others exited I was at the top, and went off exploring. The aven led to a 6' diameter – 12' phreatic tube with plenty of collapse, very old in appearance with old dry mud, and a reasonable draught. This led to a chamber with 3 ways on where the draught split. Most went up an aven, and the next went through a hole and split to go down a steep slope to a pitch, and up along a long decorated inlet rift



I followed the stream for inlet for 60m, and got water for my generator. (Actually there is water accessible near the chamber I later discovered) The inlet continues, rising only very slightly. It is obviously a different, older system to the main F20 route, and the streamways may not join.

I realised we had intersected a much older, phreatic/vadose system and started to get excited, knowing that Kitu did this. We must now stand a good chance of breaking the 1 km mark. On the way back I noticed that the chamber below the aven would make a good camp site (for hammocks.) The others were a bit worried about my long departure, so Fred had almost climbed the route (with a rope thistine!) by the time I got back. Fred rigged the climb which is muddy + loose on a series of rebelay lapes.

All the gear was brought up and after a meal and light kettle I rigged the pitch after the chamber



slot leading to the stream

The pitch is on mud at 65°, above a Fred followed down and did the next series of cascades in the stream - you don't get wet cos the water is against the wall. The cave is really nice here, the streamway being around 1½ m wide. The cave here is warmer than in mainstream F20.

Fred got carried away on his long rope & abbed over everything, so I came ½ way down & placed a bolt + rope protector for his return. I think we may have gone down about 40-45M in this cascade series.

There is not much gear left now - about 40M of lightest rope, 3 krabs, 2 maillons, 10 anchors/wedgets, 5 hangers, 3 rope protectors, 2 wires, 1 hammer, 1 driver, ½ a small BDH of carbide. (at the cascades on chamber above)

It was now around 2:30 am so we exited, Geoff was quite cold & tired, this being his warming up trip, so we started slowly, but we improved gradually and got out at around 10 am including meal + carbide stops. I moved the other small BDH, now 3/4 full of carbide, to the near end of Ernest rift. There is also a 5 litre container of carbide (with no lid) in the land of spikes n gate.

22 Hours. Fabulous trip.. Get to it guys. This is a big one!

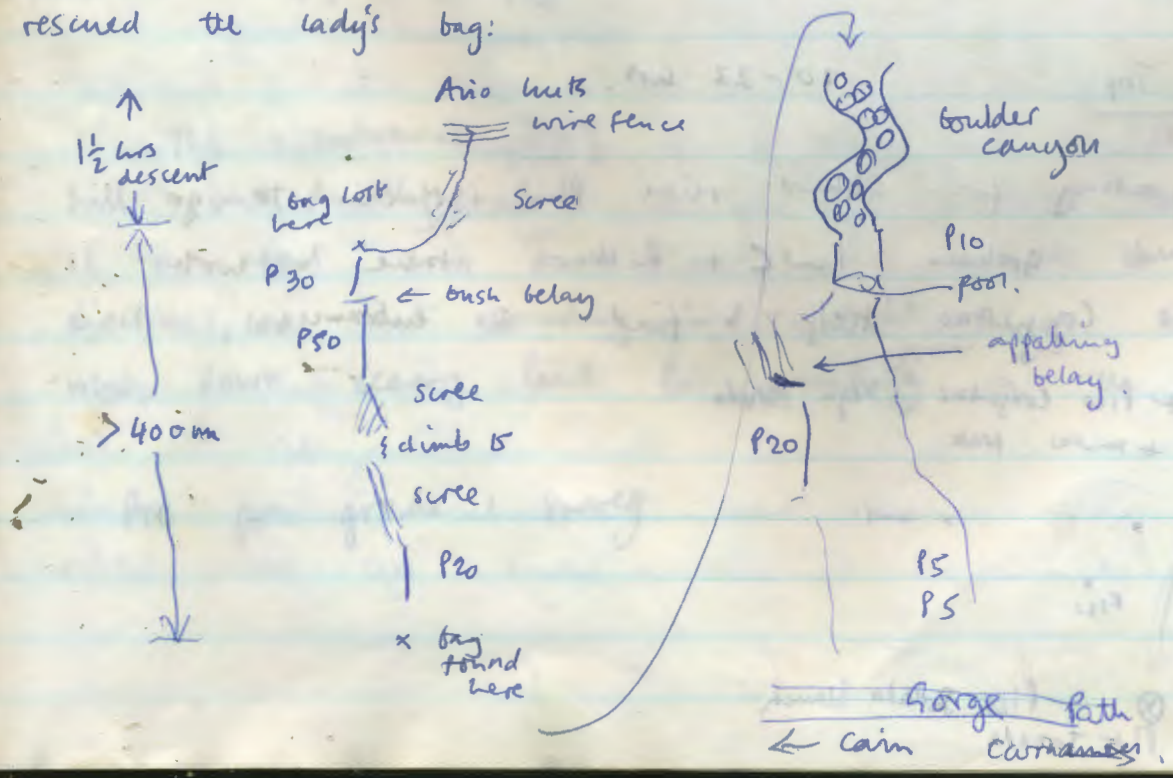
Ian

M 1st August:

Marcus W. & Gerhard N. walk around the whole area - Jon las Perdices, Ridge Cave, 2/6, F20, F7, knock several more bolt holes in, take two more bases. Good fun & very hot.

31 July

Graham + Richard abseiled down the Valle Extremera & rescued the lady's bag:



(90) 2nd August Ridge / 2/6

Gerhard + Jeff photo trip down to big beluga.
Richard, Paul C, Graham Survey of bottom 2/6 to Dive
Martin, Phil Detackle bottom ridge.

We intend to detackle as far as shit creek and leave the gear there for any further pushing down the second route of 2/6

NOTE to Dave Horsley — Owing to stupidity I left my helmet at base camp. Have borrowed yours. Thanks
Richard.

PS I have taken cameras magazine

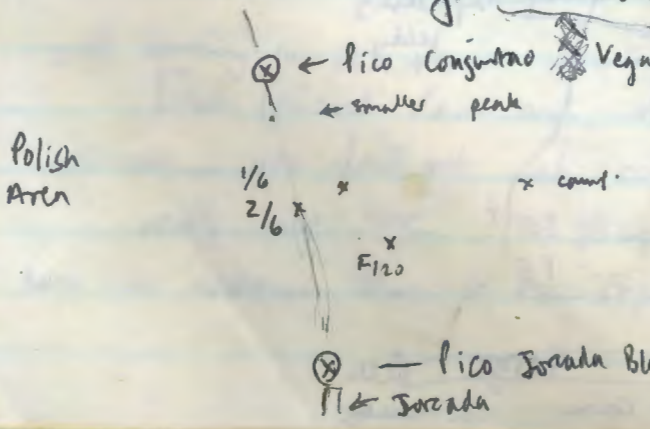
PC.

3rd August: It's raining at Top and the place is becoming as squalid as Base. Gerhard leaves 5pm to Lagos via Rio, taking down the ruined gas stove. Have lovely dreams — I'll be back in a couple or so of days

Gj.

Ridge / 2/6 Trip: 20 - 23 hrs.

Whilst waiting for Gerhard Mike Phil + Martin to go underground Graham Paul C + Richard take a look at Pico Conjuntao itself & find 2 entrances:



At the smaller peak are two entrances – the first a small slit which rattles for many seconds, the second an ancient phreatic tube with much detritus from sheep, rebecos bears, or worse. I will take a peek at these tomorrow.

Then returned to 2/6 to discover that I'd left my ~~Bass~~ wellies at Top Camp – so did the whole trip to Big Belinga in my trainers.

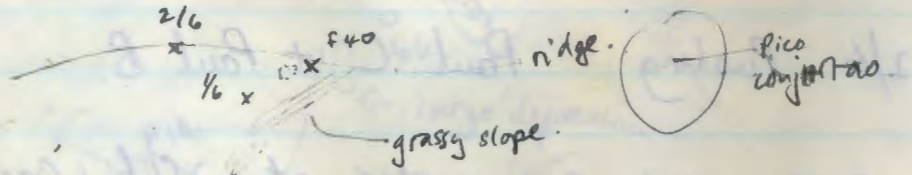
Results: completed the survey of 2/6
de-rigged ridge → Hammerhead
de-rigged hammerhead → Big Crunch.

Came out fricked to discover mist. Mañana sol.

5 BRITS IN PICOS HELL-HOLE DETACKLING VIGIL.

3rd August. Pushing E40 (Mist Cave – must translate this)

This shaft sounds like the one Dave H & Phil D found last year. Unable to triangulate entrance.

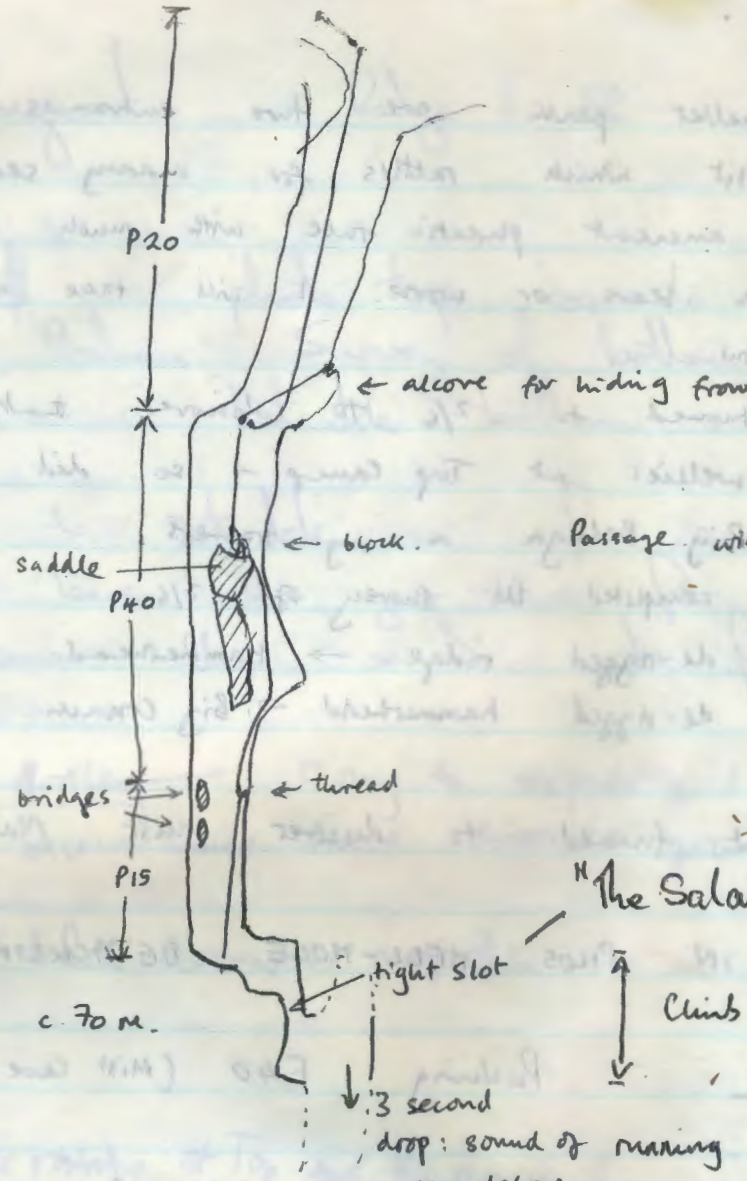


The entrance itself is a small slit in the top of a hill immediately above a small rubble filled depression. It is about 1 m across and 2-3 m wide in the other direction, loose and abounding in natural belays. Paul C & I went down leaving Paul for mumbling in the dense fog.

PTO for grade 1 survey.

(92)

Grade I survey of F40. depths estimated from used ropes



Depth in total c. 70 m.

* cave derigged + marked with red paint.

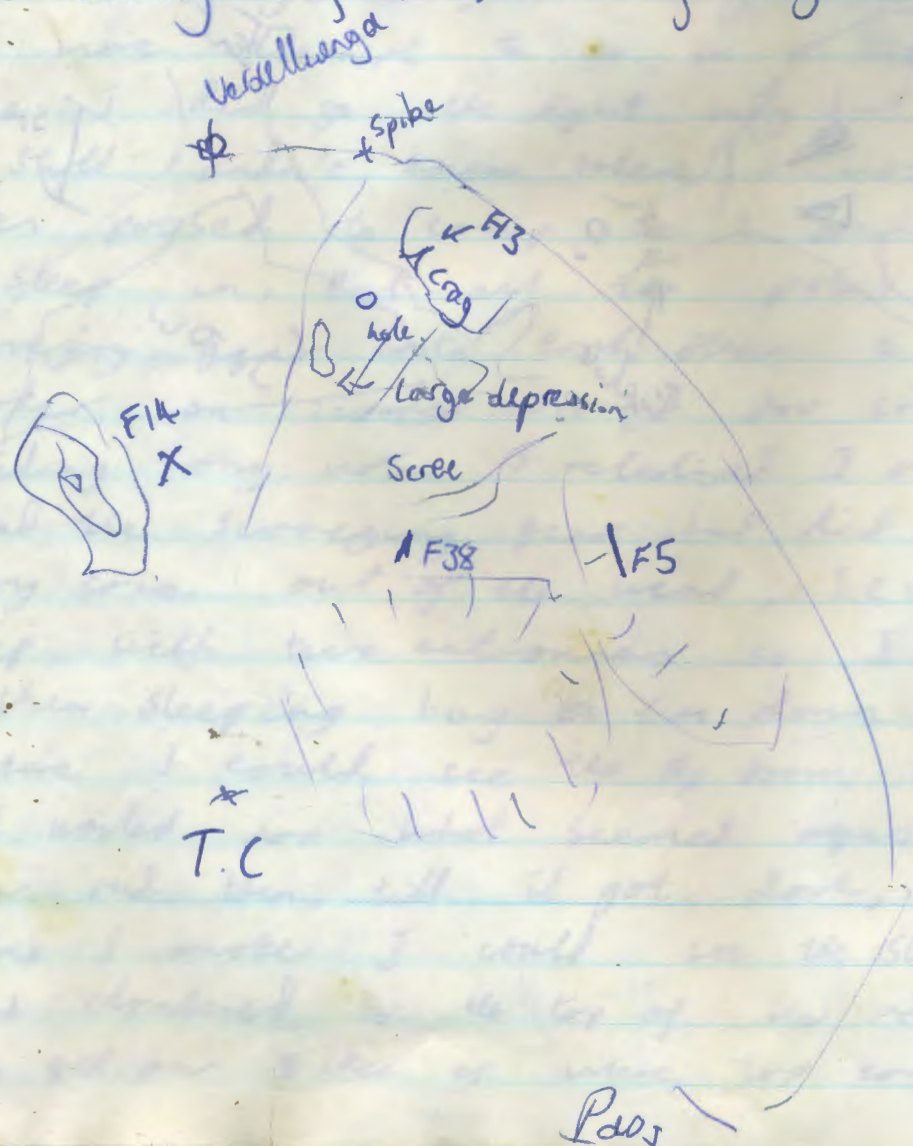
5/8/86 : 2/6 Pushing Paul C + Paul B.

Picked up rope and rigging gear at Slit Creek and went down to the Crawl of the Wild? and the pitch previously rigged by Phil D. Paul C. hung on the rope trying to put bolts in the exceedingly crap rock. He couldn't so we buggered off out taking the excess gear (1 bag + 3 ropes) to the bottom of the entrance shaft. The others had been down and hauled all the rest of the bags up the entrance pitch

7 hours.

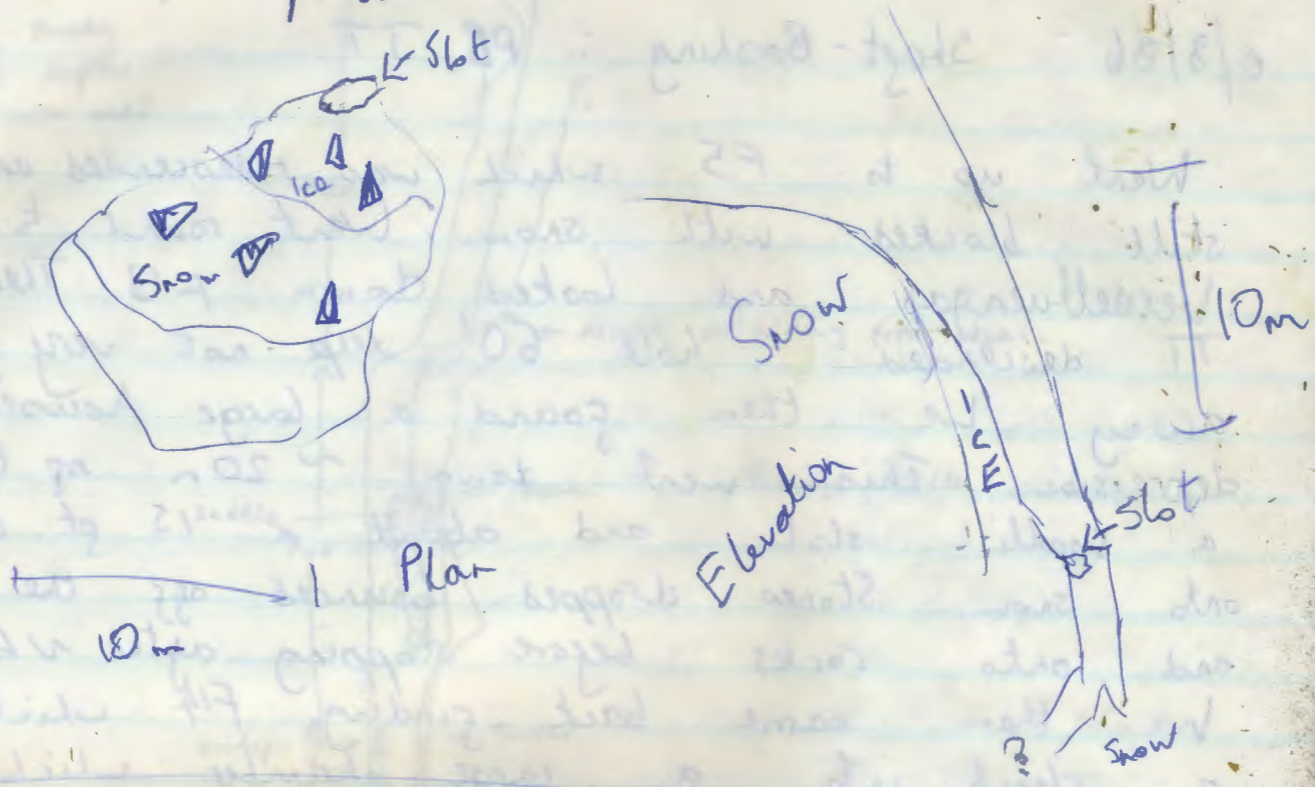
6/8/86 : Shaft-Bashing : PB, JT.

Went up to F5 which was redescended and is still blocked with snow. Went round to Verdelluenga and looked down F13. Then JT descended hole 60' deep not very far away. We then found a large house-sized depression. This went down ~20m to a smallish slot and about a 15 ft. drop onto snow. Stones dropped bounced off the snow and onto rocks before stopping after ~4 seconds. We then came back finding F14 which is a climb into a large chamber which JT investigated. At one end the rift continues but is small, at the other a climb leads into a continuing rift. Lack of light halted exploration



(94)

Large Depression Cave



F14

First cave camping trip.

Leaving base camp at ≈ 2 pm I set off in shorts T-shirt for top camp carrying 8 boxes of bread and half a ton of surveying gear.

All went well to leaving the sheep pens on the drive path, just after the path had gone out of sight the clouds set in and I followed the wrong valley up towards top camp. This valley disappeared after sometime and I tryed to guess the way till I came to a small gorge/cave? with a birds nest in it. I set off in the direction of the lighter sky, estimating this to be the right way at that time of evening only to return to this gorge some time later, I found this gorge 5 times altogether, now very cold & thirsty I made one more attempt to go in a straight line, this time I did go the right way but after some time I still didn't know where I was or if I had even passed to camp, so I found a nice hole to sleep in, Put all the poles from the surveying gear into each other to make ≈ 20 ft high marker on scouted around for some water. not finding any water I realised I also would not find the surveying gear, but did find a small dry cave out of the wind, It was about 8m deep with two entrances so. I slept in my v. thin sleeping bag ≈ 6m down on a 30° slope where I could see the sky from both entrances.

I waited for what seemed ages, dozing off every now and then till it got dark, then the next time I awoke I could see the stars. I got out and clambered to the top of the ridge I was on to get an idea of where top camp was whose

it would be cloudy again when it was light enought to walk then returned to my cave.

When it was light enought to see where my shoes had rolled to I forked up and started towards top camp, where I saw 2 light coming over the top of the ridge, I shouted to no reply, and made my way to top camp to find phil, martin and geoff making tea and ~~sto~~ heating the stew 4am, after the meal I couldn't sleep so ~~what~~ went in search of surveying gear, I had to go all the way back to the crispoth, found my gorge again, then almost walked into the mouth of holes. got back to top camp about 9am. to find everyone up. then soon after went off to haul up 2/6 entrance shaft while the mega F20 survey/pash/sheep trip set off. TV

U.T.

Comments Page.

Rock Gear.

Aquaguard Rope

Very nice to prussik on, surprisingly not too bouncy* not too bouncy my foot!! and not that abrasion resistant. Feels about the same as PMI but then it is ≃ 2mm thinner so I suppose its not bad, PD

Berger Sit Harness. ("50")

Very comfortable to wear the only problem is that it is prone to abrasion particularly where the leg loops are attached to the harness.

VERSATILE

This is the most comfortable & versatile harness I have used, Abrasion appears to be a problem especially over leg buckles & maillon attachment loops

Maillon attachment loops not strongly stitched enough and very prone to abrasion (Mine is very bad indeed, Nick) very comfortable but mine has already worn holes way through on the back waist belt. J.T.

Troll suit

Material is very nice & flexible so the suit doesn't restrict movement. Very waterproof. Could do with one or two press studs to fasten the front, so down a very muddy cave the velcro tends to clog with mud.

90 hrs before my first tear - Great but the pocket is too low, & difficult to get at when wearing chest harness) Too long in the chest which means the pocket ends up under my belay belt. Otherwise excellent stuff.

Down by the balls the outer closing flap needs extra stitching as it always comes undone.

Lyon Equipment.

Lyon Speleo Rope
10.5 mm.

9 mm
This is a Beal imitation and as far as I can tell the same high quality. My 40m length of 9mm Beal has shown less bounce than 11mm PMI, is much more flexible and easier to tie into knots and to braid, is more comfortable for abseiling than the black Marlow stuff (though fast) and seems not to be too abrasion-prone. (Yorkard)

Petzl Laser headset.
My piezo jammed after 50 hrs. Other than that ~~the~~ a brilliant light.
Overdesigned – I did quite a lot of things to mine (such as sawing off the pin that's supposed to lock the electric unit). Halogen bulbs don't fit unless you drill the socket out. Otherwise working well. I'm using a small (14W/hour) jet which gives bright enough light with the reflector.
Zoom too hard to change bulb underground.

Arione generator
Mike found this difficult to keep going. I think he said the problem was in the gas feed. Not being able to take it apart is a big minus.

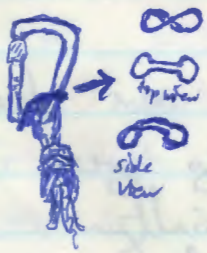
hangers.

New Petzl hangers are an improvement what regards feeding maillons in with their big holes. , and its easier to use large Krabs.

Jammers.

Krabs.

Suggestion for cows-tails:



little steel buckle for alternatively loop of thick rubber band
keeps knot at bottom end of krab.
Disadvantage: knot is harder to tie in.

Furries:

Smell.

I know a man in Manchester who makes good furry suits for about £15-£17, to measure, if you want one, see me. P. Duncan.

Drivers.

The new design driver is difficult to grip. Replacement threads are a good idea.

Hammers.

Very nice. The socket in the handle is particularly useful. Petzl hammers ludicrously expensive but there aren't any better ones

Caving Supplies.

Nickle bags.

Rocks. & Rock bars.

Keep 'em hot hombres!

SRT bags.

- too small, the lower hanging loop means that the bag hang. awkwardly when full - prefer my Inglesport bag

The pull cord thingy is only just big enough when clean, when the thing muddies up it becomes impossible to do up the bag.

hardly big enought to fit my toolloops now they are muddy + stiff.

Black Marlow.

About the best rope for prussicking and also when you is very good for abseiling. If the old marlow is anything to go by though as it muddies up abseiling will become more difficult.

Problems - black this produces major problems for perdules as you cannot see where the rope goes, or how much to let out on the perdule.

Initially the sheath of the rope seemed to pull easily, ie small threads / loop of thread were pulled from the sheath.

Blank!

Camping in F20. Richard Fred Dave Moseley.
37 hours

It is 5 whole years since 1981 and the galeria Amador camp in Xitu. Since then OUCC haven't found a cave where camping was at all necessary, until now. Although much less deep (as I write) than Xitu, F20 is a far harder trip. Fred insisted he knew the campsite, so off we went. First problem; I (Richard) basically took a free fall on the pitch before Rawhide, smashing out of control into the floor as my Italian Hitch developed Anglophobia. I was ok, but what a bad angery!

God the rifts are awful, but the passage we began to survey - from the '85 limit, got wider & wider. Reached Fred's campsite after 47 stations to discover that it had no floor at all. Fortunately (for Fred) we discovered a delightful spot nearby & were soon munching breakfast. We slept for 6 hours. I was cold, but had pleasant dreams. In Xitu the camp had the tinkling / gurgling sound of a stream which made you dream of people whispering, or orchestras playing funereal music, or girlfriends calling to you from a long way off. Everyone had bad dreams there but no-one liked to talk about them. Dave Rose claimed he sustained an erection at that camp, but no-one saw the evidence. In F20, with its colder air, I should be very surprised: no storkies in F20.

Pushed the cave to a big chamber & squeeze pitch then made our way out. Dave developed the shits + had a nasty habit of puking down the pitches towards Fred: SRT = Successive Regurgitation Technique.

I'm off to Brighty soon.
Good luck with F20 (the cave, or the rumrods, or both — remember, you're big short men.

Richard

(104)

Phil "I've always been a good bottomer" Rose
Dave "I got plenty of brains" Horsley

7/8/86
Richard leaving downhill, Roy & Fred going to Base
Phil, Phil & Martin M > Camping in F20
Marcus & G running about with 'heavy red and white poles'
and taking sightings whilst D.H.C is having a pee
Duncan being sick
Jonny T keeping camp tidy

8/7/86 : - morning
Dave H & ~~Jonny T~~ tidying Camp & putting the rope under cover. Duncan washing up Richard & Marcus surveying

- afternoon.

2/6 packing / photo trip wave 1 ~~Jonny T~~. Richard, Duncan left 12.30 pm

Wave 2 Dave H left 3-00pm
If anyone from base wants to come and give a hand hauling bags out of 2/6 this evening any help will be most gratefully accepted.

Things needed from base.
Chocolate
tinned fruit
tins of meat
veg.

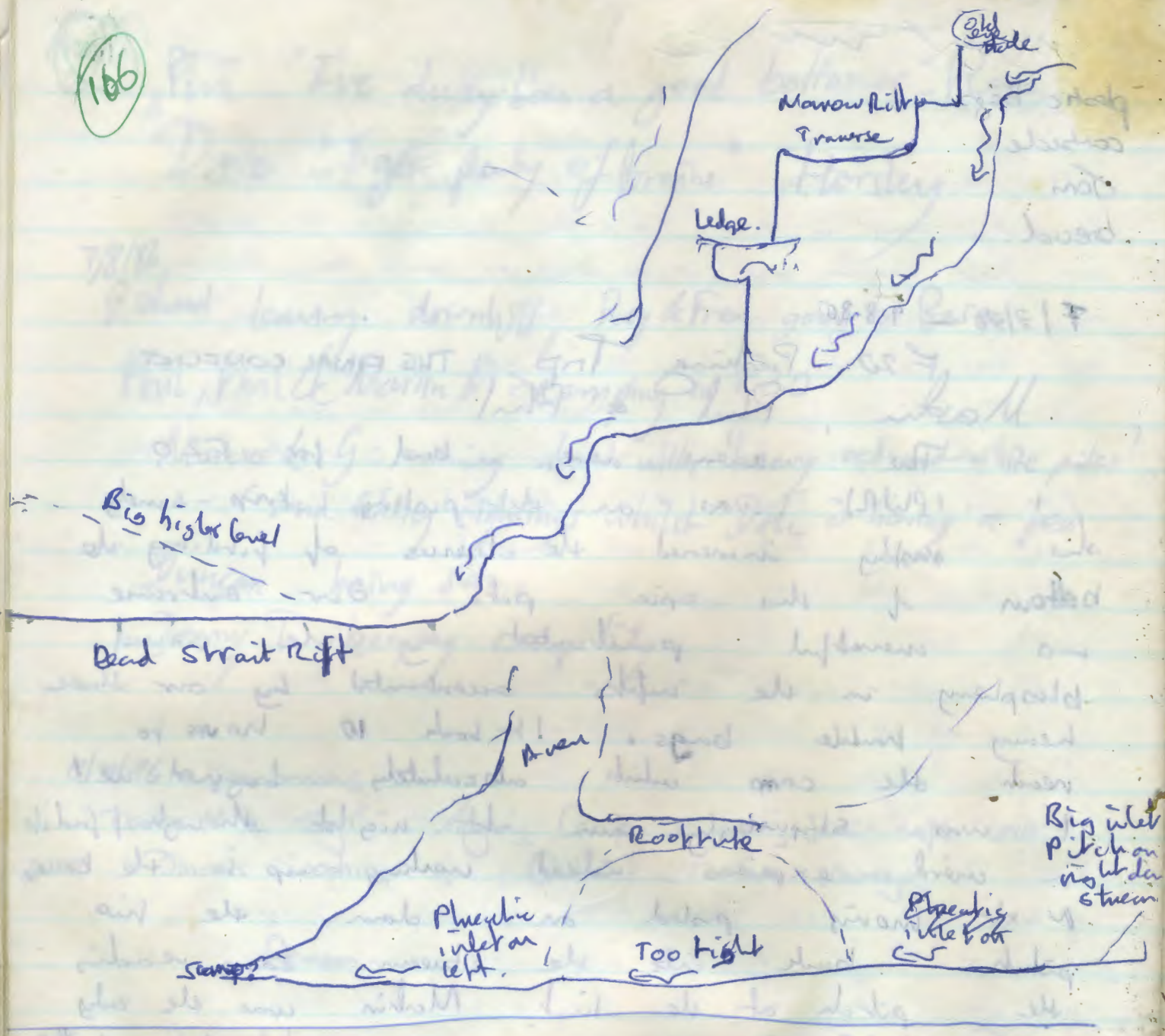
plastic bags.
carbide
Jam
bread.

7/8/86 — 9-8-86

F20 Pushing Trip THE FINAL CONFLICT

Martin, Phil & Phil

The omens were bad for F20 1 (Phil R) was on the pushing trip - surely this vastly increased the chances of finding the bottom of this epic pot. Our entrance was uneventful punctuated by the usual blasphemy in the inlets accentuated by our three heavy double bags. It took 10 hours to reach the camp which absolutely buggered me! I was surprisingly warm at night though I had a weird experience indeed waking up in the tents. Next morning piled on down the fine pitch back into the stream soon reaching the pitch at the limit. Martin was the only one who's faculties were 100% so he set off down the pitch. The whole one and Phil deployed the surveying. At the bottom an interesting straight left headed of past some fine inlets to THE SUMP! Well we could see a canal going round a corner with a 1 foot of air space but it would be a total immersion job to death cert - no joke at the end of F20.



12th August: Detackling Team 2 down at ~12. I cannot locate my FUNY so I have borrowed one out of Richard's tent (Duncan?) I hope this is OK

PB

if anyone has seen or moved by helmet + generator could they put it somewhere I can find it. The helmet is red with JV written inside it, and the generator, has 2 red paint marks on it.

Jon. J.

(who says I can't write with my left hand!) I'm off to base now with some rubbish as I didn't feel up to detecting today. Fred, Andy, Duncan and Dave already set off for T20, Phil D. + Dave set off for base.

PAUL HAS JOHNNY'S HELMET

15/8/86

Fred, Dave H, Duncan, Andy, Gerhard & Boris detackling P20 from the Eyehole upwards. Boris turned out to be a rather passive member but eventually we knocked some sense into him. 8 hrs. Many hombres duros helped with the carry back.

All our biggies are now marked as bottomed (in red), and all the route cairns have been smashed (some are still recognizable if you look carefully just as well as I walked up to P20 in the dark after the cairn-smashing.) No more tackle and no obvious rubbish left at any of the entrances. Thank you all.

G.

16/8/86 5 am — Woken up for the umpteenth time by the wind, I proceed to scan the sparkling starry sky — with unaided eyes at first, then, enthralled, with my binoculars. Interesting objects encountered included:

- three galaxies: our own one, the Andromeda Nebula (M31) and the Triangle Nebula (M33) — the latter is so weak that only in this clear mountain air it becomes visible with a binocular (I've never seen it before);
- several star clusters;
- Jupiter, with two moons;
- the double star ε Lyrae (each of the components is again a double star, but only through a big telescope);
- many many shooting stars.

MW (who turned on a light in his tent at half five) was also called out to admire the sky, and didn't regret it.

G

(~~140~~) (104)

▽ dry, I hope taken the gear you showed me, also I medical kit + rubbish.
have
~~to~~ man with 1 hand.

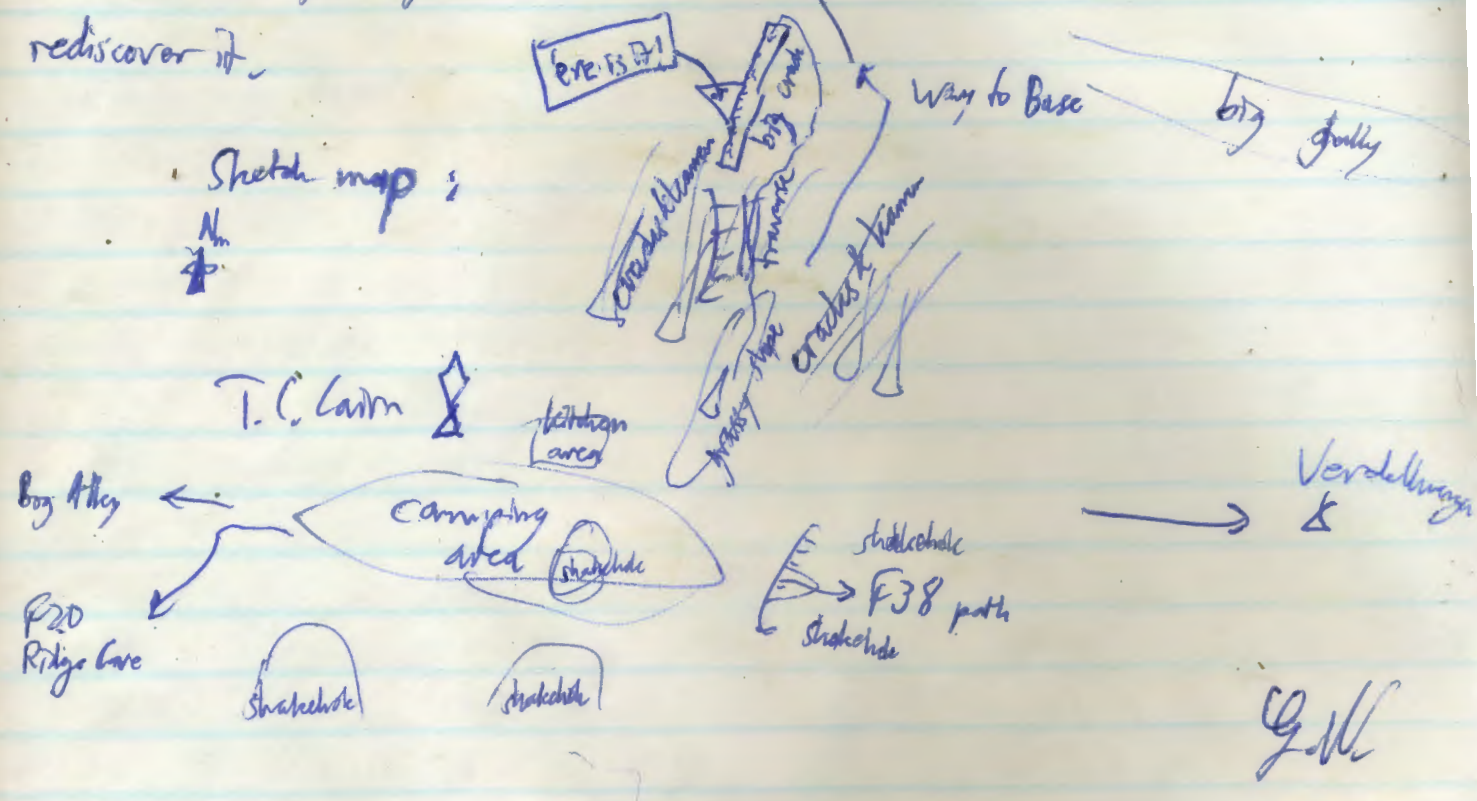
17/8/86. Dave H & Duncan G.
Survey & pushing down F40

We surveyed & pushed this to a choke. It does not go. See the survey at the back.
Oh! some people don't hell over estimated pitch lengths.

18/8/86 Dave M, Duncan G. & Gerhard N. establish food ~~&~~ depot in biggest of cracks E/NE of T.C.: walk down the grassy bit as you would do walking to Base, traverse to the left at the bottom end and clamber down the big deep crack with the sharp flakes. The dump is in an alcove on the far (western) side and is not visible until you actually stand in front of it. Helmets & gloves are advisable.

The dump contains: ~41 tins Mornflakes, the orange & blue water containers, 2 washing-up bowls (one of which broken, may still be used to drain washed-up cutlery), 6-odd pairs of wellies (amongst which one pair of mine — if I don't make it for

the beginning of the '87 Expedition, you're welcome to use them, dozens of unmatched gloves, the awning & its poles, three or four BOXes full of carbide ... Dave H should be able to rediscover it.



GM

RIDGE CAVE SURVEY 20.7.86

labelled 'H' (51)

Book : Urs ; Instruments : Dan ; Tape : Paul B.

From head of Hammerhead Pitch to Crystal Chamber

Station 1 is the last station of the 1985 survey

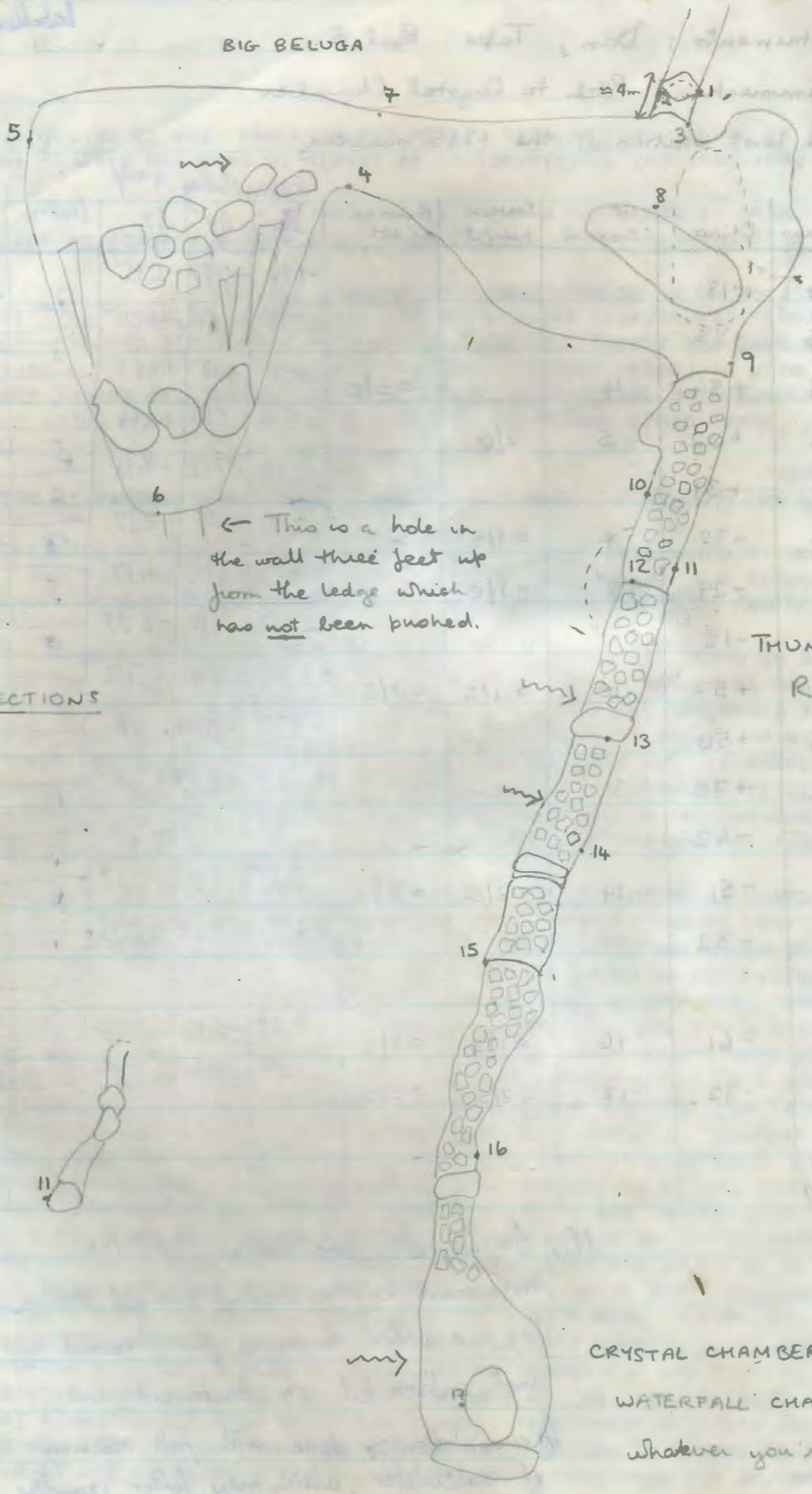
	Tape	Compass	Clino	At Station	Station height	Passage width	Easting Δx	Northing Δy	up Δz	Station	relative to station 1 x	y	z
1-2	1/45	304	-18				-1.14	+0.77	-0.45	2	-1.14	+0.77	-0.45
2-3	20/20	255	-83				-2.38	-0.64	-20.05	3	-3.52	+0.13	-20.50
4-3	18/16	105	+54	4		≃3/0	+10.31	-2.76	+14.69	4	-13.83	+2.90	-35.19
5-4	12/71	132	+02	5	2/0		+9.44	-8.50	+0.44	5	-23.27	+11.40	-35.63
5-6	32/00	187	+31				-3.34	-27.22	+16.48	6	-26.61	-15.83	-19.15
4-7	3/85	077	-38	7	≃1/5		+2.96	+0.68	-2.37	7	-10.88	+3.58	-37.56
7-8	9/01	141	-29	8	≃1/0		+4.96	-6.12	-4.37	8	-5.92	-2.55	-41.93
7-9	9/68	187	-18				-6.12	-9.14	-2.99	9	-12.00	-5.56	-40.55
10-9	6/11	082	+57	10	≃1/2	≃1/5	+3.30	+0.46	+5.12	10	-15.29	-6.02	-45.68
11-10	5/37	075	+50				+3.33	+0.89	+4.11	11	-18.63	-6.92	-49.79
12-11	15/55	042	+75				+2.69	+2.99	+15.08	12	-21.32	-9.91	-64.81
12-13	7/39	271	-42				-5.49	-0.10	-4.94	13	-26.81	-9.81	-69.75
13-14	13/41	315	-51	14	≃2/0	≃3/0	-5.97	+5.97	-10.42	14	-32.78	-3.84	-80.18
14-15	10/80	031	-32				+4.72	+7.85	-5.72	15	-28.06	+4.01	-85.90
~~15-16~~	~~11/11~~	~~009~~								16	-28.75	+10.55	-99.76
15-16	13/56	354	-61	16	≃1/5	≃1/5	-0.69	+6.54	-1.86	17	-27.27	+19.85	-103.65
16-17	11/11	009	-32	17	≃2/5	≃5/0	+1.47	+9.31	-5.89				

NB, Δx, Δy, Δz are always from the first-named to the second-named station. They are added to x,y,z for forward legs, and subtracted for backward ones.

(Accumulation is done with full accuracy of calculator, which may (after rounding to cm) lead to apparent discrepancies in the last place – don't let this bother you)

52

BIG BELUGA



← This is a hole in the wall three feet up from the ledge which has not been pushed.

THUNDER RUN

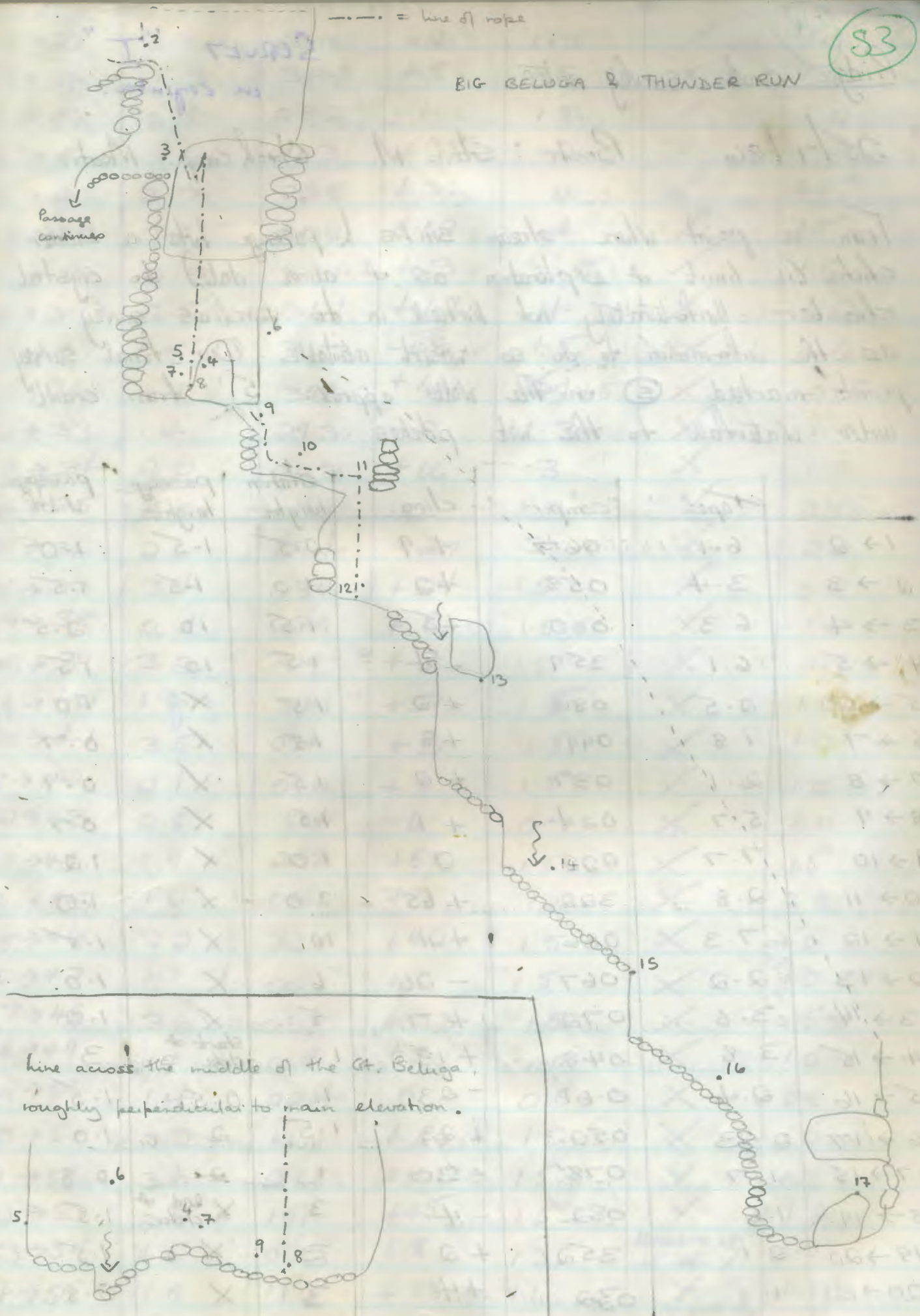
CROSS-SECTIONS

CRYSTAL CHAMBER or WATERFALL CHAMBER or whatever you're going to call it.

—·—· = line of rope

S3

BIG BELUGA & THUNDER RUN



line across the middle of the Gt. Beluga, roughly perpendicular to main elevation.

(54)

Ridge cave survey notes.

SURVEY "I" on computer.

25/7/86 Book : Steve M. Clinol comp. Martin

From a point where stream sinks & passage hits a boulder choke (ie limit of exploration as of above date) to crystal chamber. Unfortunately not linked in to previous survey as the information to do so wasn't available. Our final survey point marked (S) on the wall approx. 5' from crawl under waterfall to the wet pitches.

	Tape	comp.	clino.	station height	passage height	passage width
1 → 2	6.1	067	+9	0.5	1.5	1.0
2 → 3	3.4	058	+2	1.0	1.5	1.5
3 → 4	6.3	080	+5	1.5	1.0	2.5
4 → 5	6.1	359	−4	1.5	1.0	1.5
5 → 6	2.5	080	+2	1.5	X	1.0
6 → 7	1.8	099	+8	1.5	X	0.7
7 → 8	2.1	037	+2	1.5	X	0.7
8 → 9	5.7	024	+1	1.5	X	0.7
9 → 10	7.7	022	0	1.0	X	1.2
10 → 11	2.8	322	+65	3.0	X	1.0
11 → 12	7.3	086	+11	1.0	X	1.5
12 → 13	2.2	067	−26	6	X	1.0
13 → 14	3.6	072	+7	5	X	1.0
14 → 15	3.8	048	+19	1	start of choke 3	3
15 → 16	2.4	0.61	−23	1	0.5	1.5
16 → 17	2.3	050	+23	1.5	2	1.0
17 → 18	1.7	078	−30	1	2	0.8
18 → 19	1.6	082	−4	3	X end of choke	1.5
19 → 20	2.1	352	+2	3	X	1.5
20 → 21	1.9	032	+4	3	X	0.8
21 → 22	1.9	308	+48	3	X	0.8

22 → 23	3.7	267	−4	1.5	X	1.5
23 → 24	1.3	349	+8	1.5	X	1.0
24 → 25	2.8	082	−1	1.5	X	1.0
25 → 26	1.5	113	+35	2	X	1.0
26 → 27	2.7	038	+32	4	X	1.5
27 → 28	2.1	032	+10	4	X	1.5
28 → 29	2.8	304	+3	3.5	X	1.0
29 → 30	2.5	041	+12	4	X	1.0
30 → 31	2.5	317	−49	1.5	X	1.0
31 → 32	2.1	359	+12	~~2.4~~ 1.5	X	0.8
32 → 33	1.4	293	−2	1.3	X	1.0
33 → 34	2.0	323	+66	3	X	1.0
34 → 35	5.0	002	0	1.3	X	2.0
35 → 36	2.6	294	+27	3	X	2.0
36 → 37	3.4	034	+24	1.5	X	0.8
37 → 38	2.1	039	+8	1.5	X	1.0
38 → 39	3.2	309	+3	1.5	X	0.8
39 → 40	1.6	341	+7	1.5	X	1.0
40 → 41	3.5	094	+3	1.5	X	1.0
41 → 42	2.1	040	+1	1.5	X	1.0
42 → 43	2.8	334	−6	0.7	X	1.0
43 → 44	1.9	283	+51	1.5	X	1.5
44 → 45	1.6	030	+3	1.0	X	0.8
45 → 46	2.2	320	+42	1.5	X	1.0
46 → 47	1.1	007	+6	1.5	X	1.0
47 → 48	3.1	038	+23	1.5	X	0.5
48 → 49	1.1	064	+20	1.0	X	1.0
49 → 50	1.4	024	0	0.6	X	0.8
50 → 51	2.2	101	+60	1.5	X	1.2
51 → 52	3.1	081	+47	1.5	X	1.2
52 → 53	2.5	101	+45	1.5	X	1.2
53 → 54	4.6	023	+8	1.3	Boulders at 15 than X	1.0
54 → 55	1.8	112	+18	1.1	X	1.2
55 → 56	1.2	088	+28	1.5	X	1.0
56 → 57	1.7	104	+32	2.2	X	1.0

57→58	4.5 (56)	087	+20	1.5	X	1.2
58→59	1.6	119	+4	1.5	X	1.2
59→60	2.1	145	+26	1.6	X	1.2
60→61	4.2	125	+28	1.0	X	1.2
61→62	3.3	117	+24	1.7	X	2.5
62→63	8.9	147	+78	1.5	1	1.5
63→64	5.8	120	+23	1.5		4
64→65	16.8	\	Vertical i.e. up ???	0.5	1.5	3.5
65→66	6.6	220	+45	1.2	3	2
66→67	3.5	062	+12	2	0	14

ALL READINGS TAKEN UPSTREAM TOWARDS ENTRANCE.

See extra leg to join → over page.

N.B. ⓐ survey station data refers to the station being surveyed to.

ⓑ X — means height of passage unknown (a dashed line at approx 15–20m. probably appropriate?)

For most of survey, diagrams were not made as they were pretty useless. However the following information can be included.

① Pools between 2 and 9

② Inlet at station 10 from RHS facing down stream bearing approx 280°

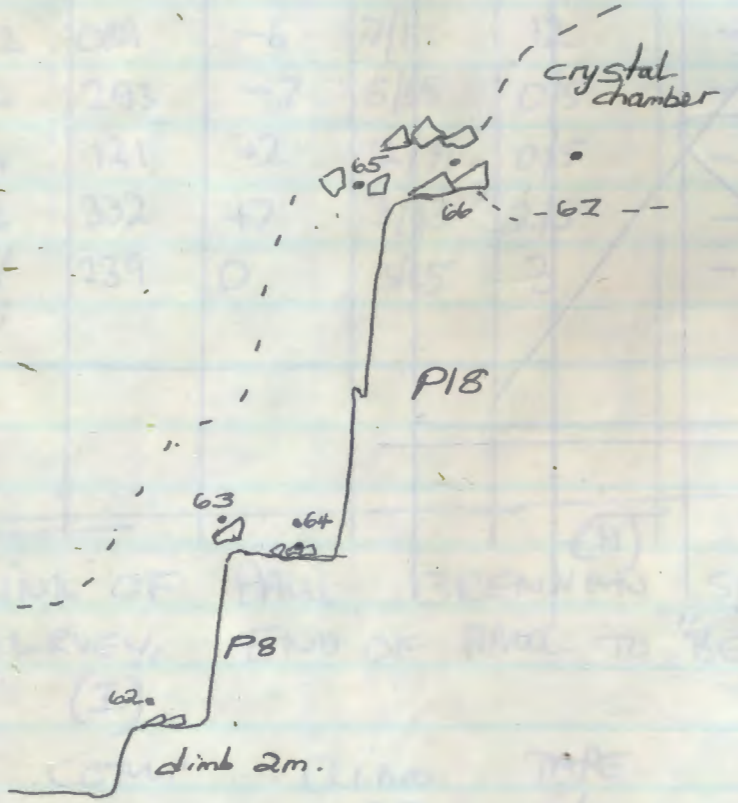
③ Between 15 and 19 the stream hits a choke and the route is between boulders approx 5–8 m above stream.

Also between 15 and 16 are two inlets on RHS facing downstream.

④ Between 36 and 37 is 1.5m drop into pool

⑤ Small inlet on RHS facing downstream at 51

⑥ 62 → 63 is 2nd pitch in streamway ⇒ 8 m.
⑦ Between 63 and 64 is an inlet on LHS facing downstream.
⑧ 64 → 65 is 1st pitch in streamway ⇒ 18m.



(38)

Ridge cave - Sump chamber.

P. Duncan
D. Horseley.
26/7/86

Comp 514447 CLINO 510270

No	COMPAS	CLINO	TAPE	PASSAGE WIDTH	PASSAGE HEIGHT	STATION HEIGHT	
0→1	132	-31	[illegible]	1/2	—	0/5	BOULDER CHOKE SQUEEZE
1→2	113	+21	[illegible]	0/9	—	—	
2→3	128	+8	[illegible]	1/9	—	—	
3→4	202	-19	[illegible]	2/35	—	0/2	
4→5	222	+5	[illegible]	1/3	—	0/3	
6→5	065	-29	2/72	—	—	2/1	
6→7	241						
9→8	200						
9→10	064						
11→10	216						
11→12	072						
13→12	224						
13→14	089						
15→14	293						
15→16	121						
17→16							
LINK BETWEEN PAUL BREN + STEVE MOYES SURVEY	009	+32	2/6	—	—	—	

FROM PAULS → STEVES STATIONS

Ridge Cave Sump chamber (take II)

No	COMP	CLINO	TAPE	P.W	PH	S.H	
0-1	132	-31	1/2				
1-2	113	+21	0/9				
2-3	128	+8	1/9				
3-4	202	-19	2/35	BOULDER CHOKE SQUEEZE			
4-5	222	+5	1/3				
6-5	065	-29	2/72				
6-7	241	-5	14/01	7/4	2	1/97	← not which station 33
7-8	200	-50	3/18	7/4	2	9/2	←
9-8	064	-2	17/8	—	—	—	
9-10	216	+3	8/22	8	10	2	←
11-10	072	-9	12/55	12	10	2	←
11-12	224	-8	13/5	12	13	1/5	←
13-12	089	-6	7/1	12	—	2/5	←
13-14	293	-7	5/65	0/5	—	1/5	←
15-14	121	+2	2/71	0/5	—	1/3	←
15-16	332	+7	3/43	2/5	—	1/6	←
~~17~~ 16-17	239	0	3/45	3	—	1/6	←

(H)

LINK OF PAUL BRENNAN SURVEY TO STEVE MAYERS SURVEY, END OF PAUL TO "BEGINNING" OF STEVE: (I) (into cave) →

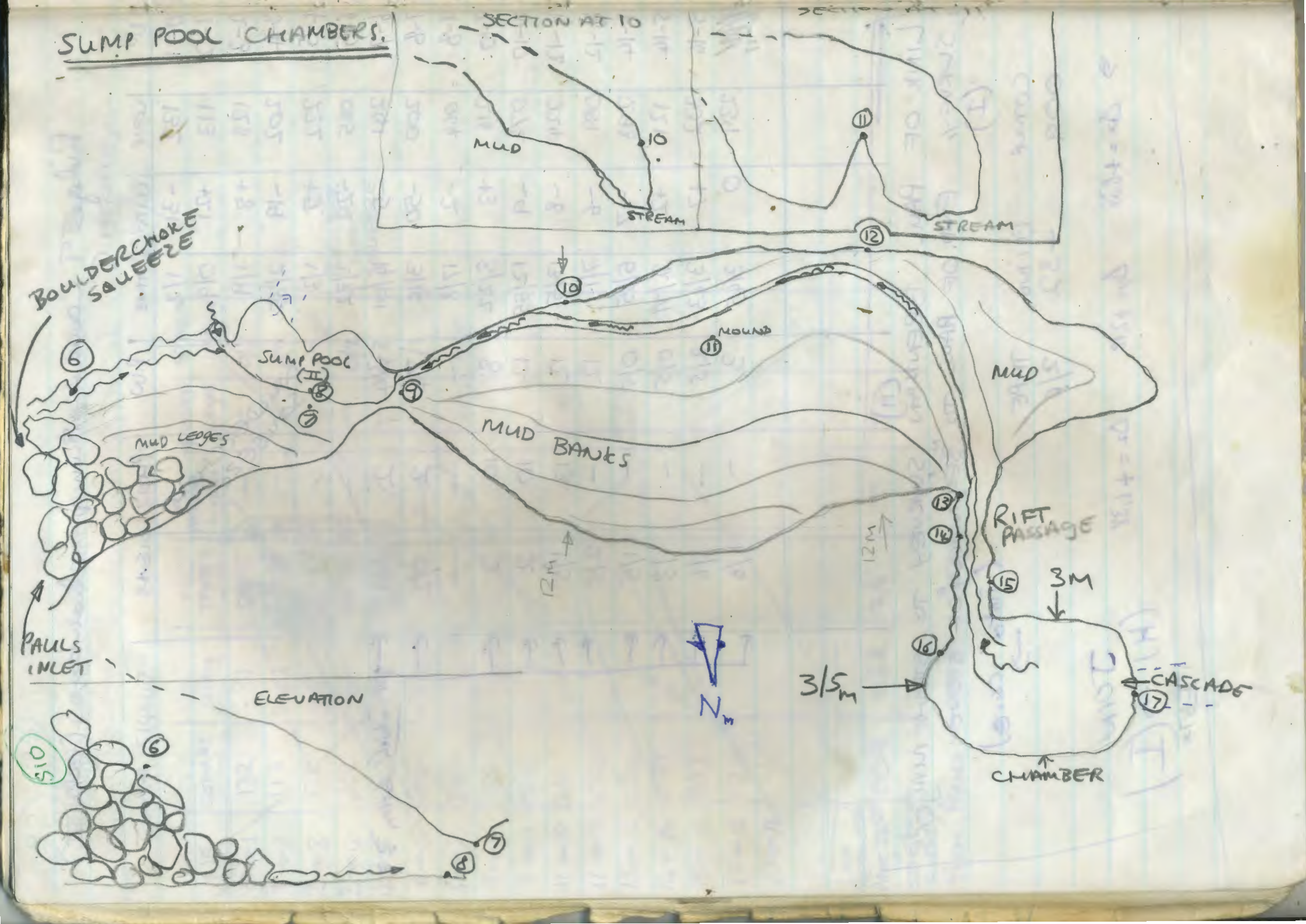
COMP	CLINO	TAPE
009	+32	2/6

⇒ $\Delta x = +0.34$ $\Delta y = +2.18$ $\Delta z = +1.38$

JOIN (H) → (I)

I67*

SUMP POOL CHAMBERS.



S11

1/6 Survey Phil D & Dave H evaluated 31/7/86 by Gerhard

leg	tape	comp	clino	East Δx	North Δy	Up Δz
0-1	1.20	132	-31	+0.76	-0.69	-0.62
1-2	0.90	113	+21	+0.77	-0.33	+0.32
2-3	1.90	128	+8	+1.48	-1.16	+0.26
3-4	2.35	202	-19	-0.83	-2.06	-0.77
4-5	1.30	222	+5	-0.87	-0.96	+0.11
6-5	2.72	065	-29	+2.16	+1.01	-1.32
6-7	14.01	241	-5	-12.21	-6.77	-1.22
7-8	3.18	200	-50	-0.70	-1.92	-2.44
9-8	17.80	064	-2	+15.99	+7.80	-0.62
9-10	8.22	216	+3	-4.82	-6.64	+0.43
11-10	12.55	072	-9	+11.79	+3.83	-1.96
11-12	13.50	224	-8	-9.29	-9.62	-1.88
13-12	7.10	089	-6	+7.06	+0.12	-0.74
13-14	5.65	293	-7	-5.16	+2.19	-0.69
15-14	2.71	121	+2	+2.32	-1.39	+0.09
15-16	3.43	332	+7	-1.60	+3.01	+0.42
17-16	3.45	239	0	-2.96	-1.78	0

relative to last year's limit of survey!!

station	x	y	z
0	-104.41	-45.70	-168.33
1	-103.64	-46.39	-168.95
2	-102.87	-46.72	-168.62
3	-101.38	-47.88	-168.36
4	-102.22	-49.94	-169.13
5	-103.08	-50.90	-169.01
6	-105.24	-51.90	-167.69
7	-117.45	-58.67	-168.91
8	-118.15	-60.59	-171.35
9	-134.13	-68.39	-170.73
10	-138.96	-75.03	-170.30
11	-150.75	-78.86	-168.34
12	-160.03	-88.48	-170.21
13	-167.09	-88.60	-169.47
14	-172.26	-86.41	-170.16
15	-174.58	-85.02	-170.26
16	-176.18	-82.01	-169.84
17	-173.22	-80.23	-169.84

Trip 7 in Computer

Topographic Dream

Some further station coordinates relative to last year's limit of survey.

		x	y	z	
Oney, Dan, Paul B 29/7/86	station 17:	-27.27	+19.85	-103.65	(see above)
Steve Mayer 29/7/86	station 67:	-26.93	+22.03	-102.27	
(as checked by Phil D & Dave H)					
" "	station 85:	-26.95	+29.00	-107.66	
" "	" 64:	-26.95	+24.00	-142.46	
" "	" 34:	-59.60	+5.40	-157.82	
" "	" 12:	-72.80	-18.76	-162.69	
	" 1 equals (presumably ?) station 0 of Phil D & Dave H, see this page				

(512)

2/6 ENT. Measured from elevation

P1	(station 0 → 5)	122 M	
P2	(8 → 12)	63	
P3	(12 → 15)	17	
P4	(19 → 20)	22	
P5	(L3 – L6)	75	(The Security)
P6	(L8 – L11)	58	

Survey trip
K on Computer

The surface link from Ridge Cave first survey station to 2/6 Lip of Shaft, according to my surface survey of last year is:
dist, 135.5m bearing 220.5°
Incl, +30°
$\Delta x = -76.5m$ $\Delta y = -89.3m$
$\Delta z = +67.2m$ (± 3m ?)

More accurate data to be obtained by Marcus Wandinger, Phil Augustus, Gerhard

"They numbers of the 1 big 1"

2/6 SURVEY. 24/7/86

CLINO 510220
COMPASS 514447

BOOK P. DUNCAN, INSTRUMENTS - D. HORSLEY, TAPE R. TAYLOR.

Station 0 = green splosh (leg from lip of shaft to be filled in by G. Nicholson) ↓ see below

No	COMP	CLINO	TAPE	P HEIGHT	P WIDTH	STATION HEIGHT	Δx → (Easting)	Δy → (Northing)	Δz → (pos. = up)
0→1	—	−90	37/2	—	—	ENT	0	0	−37.20
2→1	236	+8	1/5	—	3m	—	−1.23	−0.83	+0.21
2→3	—	−90	46/2	—	—	—	0	0	−46.20
3→4	066	−66	11/34	—	—	—	+4.21	+1.88	−10.36
4→5	—	−90	24/35	—	—		0	0	−24.35
6→5	238	+19	11/81	—	4m	0/2	−9.47	−5.92	+3.85
6→7	356	+18	21/82	—	5m	0/7	−1.45	+20.70	+6.74
7→8	211	−18	4/7	—	—	1/6	−2.30	−3.83	−1.45
9→8	—	+90	29/4	—	—		0	0	+29.40
9→10	040	+35	8/25	—	6m	2	+4.34	+5.18	+4.73
10→11	—	−90	7/5	—	—		0	0	−7.50
11→12	—	−90	29/15	—	—		0	0	−29.15
13→12	221	−41	3/28	—	4m	F	−1.62	−1.87	−2.15
13→14	082	−30	4/68	—	2m	—	+4.01	+0.56	−2.34
14→15	063	−68	18/5	—	1m	1/5	+6.17	+3.15	−17.15
16→15	229	+6	4/63	—	1m	1m	−3.48	−3.02	+0.48
16→17	030	−23	7/73	—	1/5m	1m	+3.56	+6.16	−3.02
18→17	269	+50	4/17	—	1m	1/5	−2.68	−0.05	+3.19
18→19	140	−35	1/21	—	1m		+0.64	−0.76	−0.69
19→20	—	−90	21/77	—	—	—	0	0	−21.77
21→20	239	+16	4/7	—	4m		−3.87	−2.33	+1.30
21→22	348	−29	3/16	—	4m	1/5	−0.57	+2.70	−1.53
23→22	—	+90	21/00	—	—	—	0	0	+21.00
24→23	232	−40	2/02	—	4m	2	−1.22	−0.95	−1.30
24→25	047	−59	12/1	—	—		+4.56	+4.25	−10.37

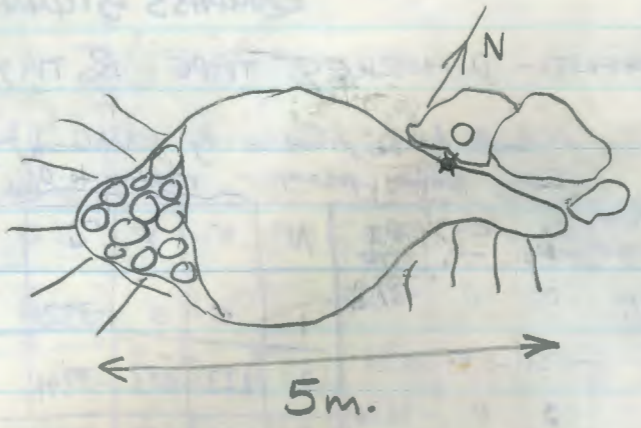
N°	X	Y	Z
1	0	0	−37.20
2	1.23	0.83	−37.41
3	1.23	0.83	−83.61
4	5.45	2.71	−93.97
5	5.45	2.71	−118.32
6	14.91	8.62	−122.16
7	13.47	29.33	−115.42
8	11.17	25.49	−116.87
9	11.17	25.49	−146.27
10	15.51	30.67	−141.54
11	15.51	30.67	−149.04
12	15.51	30.67	−178.19
13	17.13	32.54	−176.04
14	21.15	33.10	−178.38
15	27.32	36.25	−195.53
16	30.80	39.27	−196.02
17	34.35	45.43	−199.04
18	37.03	45.48	−202.23
19	37.67	44.72	−202.92
20	37.67	44.72	−224.69
21	41.54	47.05	−225.99
22	40.97	49.75	−227.52
23	40.97	49.75	−248.52
24	42.19	50.70	−247.22
25	46.75	54.95	−257.60

PS The leg from 2/6 Lip of Shaft (from which depth counts!) to the green splosh is dist. 5.50m, bearing 230°, incl. −67°; Δx = −1.65m, Δy = −1.38m, Δz = −5.06m

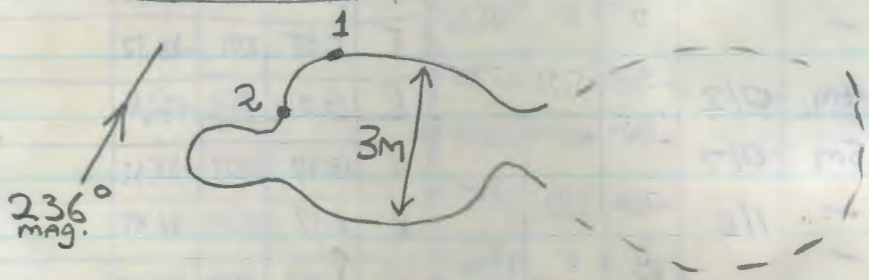
Thus depth of station 25 is actually 262.66m, &c.

S14

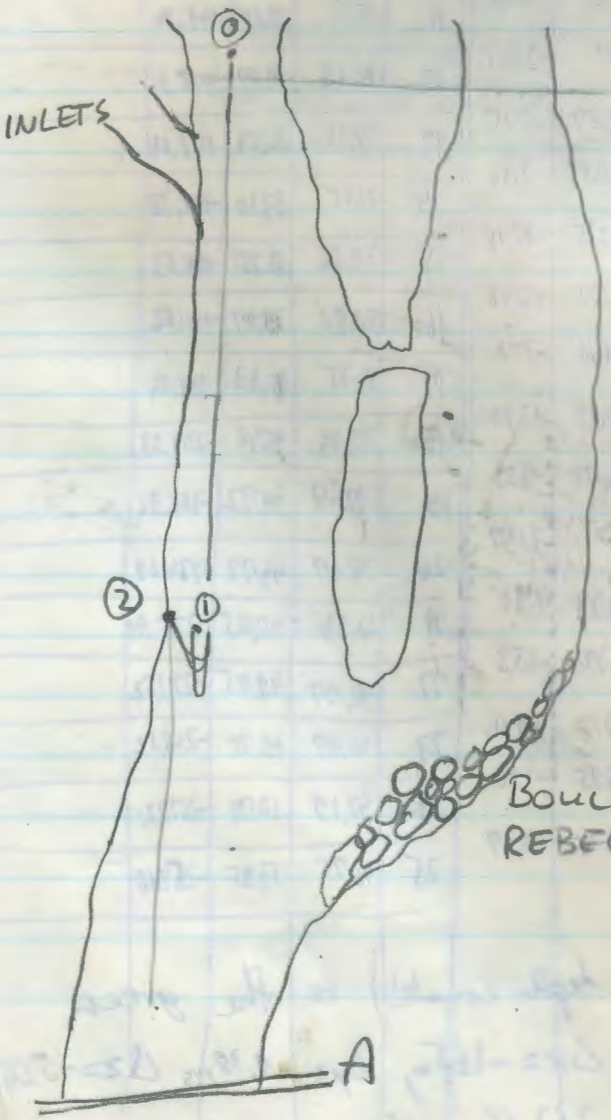
2/6 Drawings



PLAN VIEW AT STATION 0

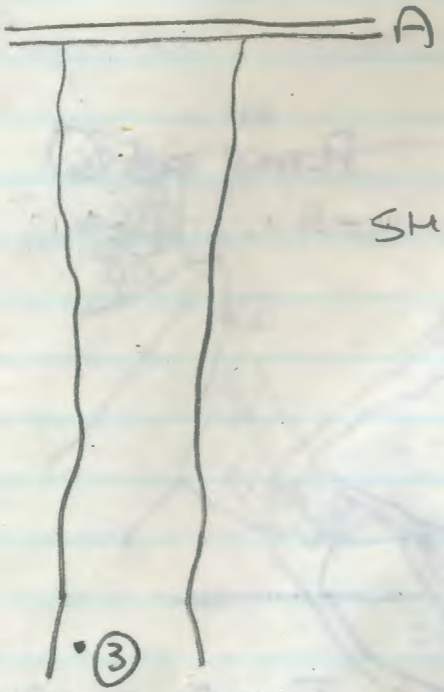


PLAN AT 1

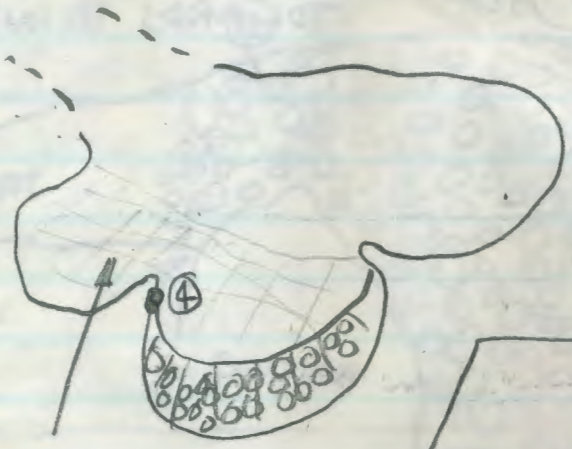


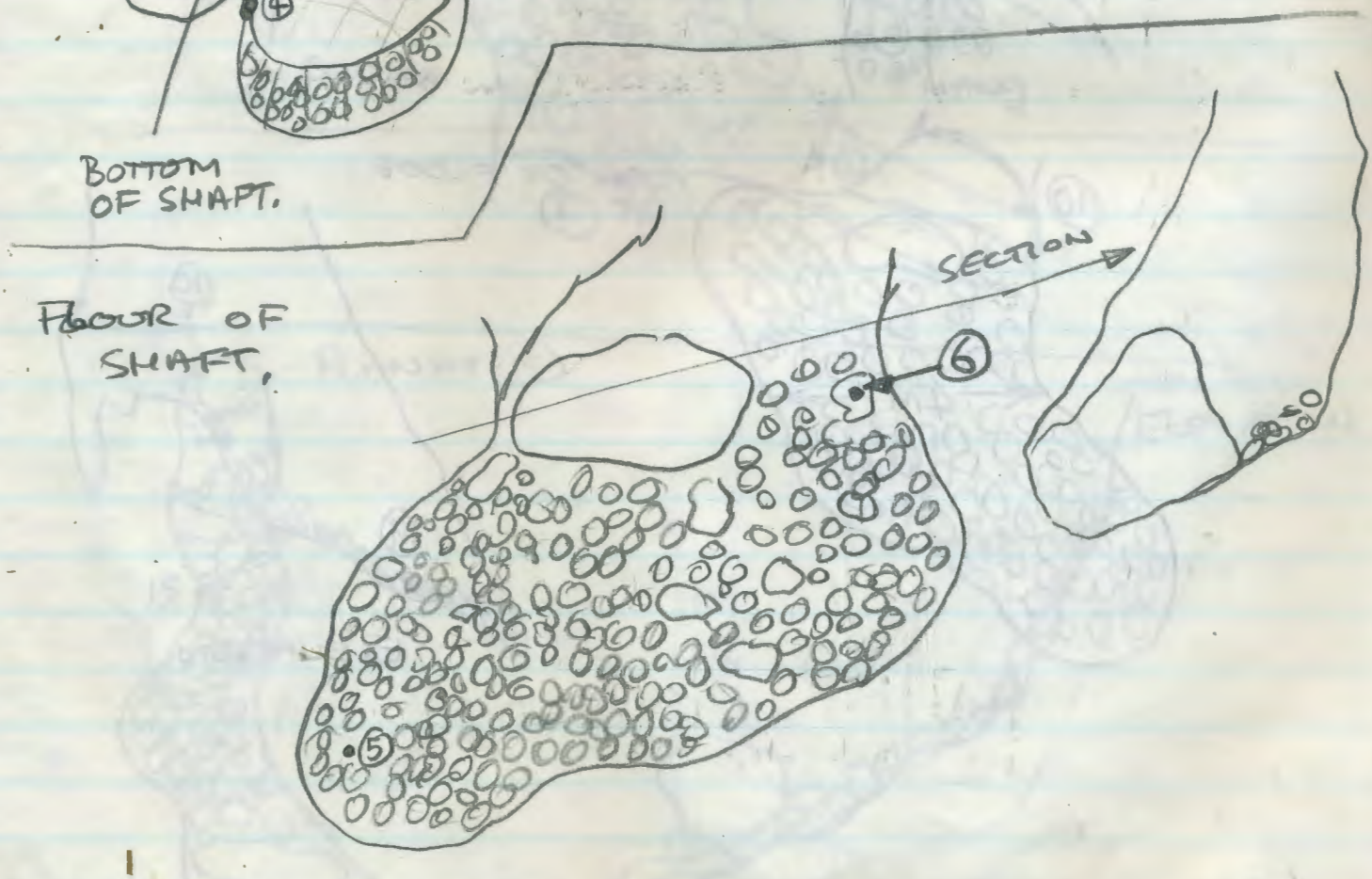
ENT
SHAFT
AVERAGE WIDTH ≃ 5M

BOULDER FLOOR ≃ 10M BELOW
REBELAY AT 2

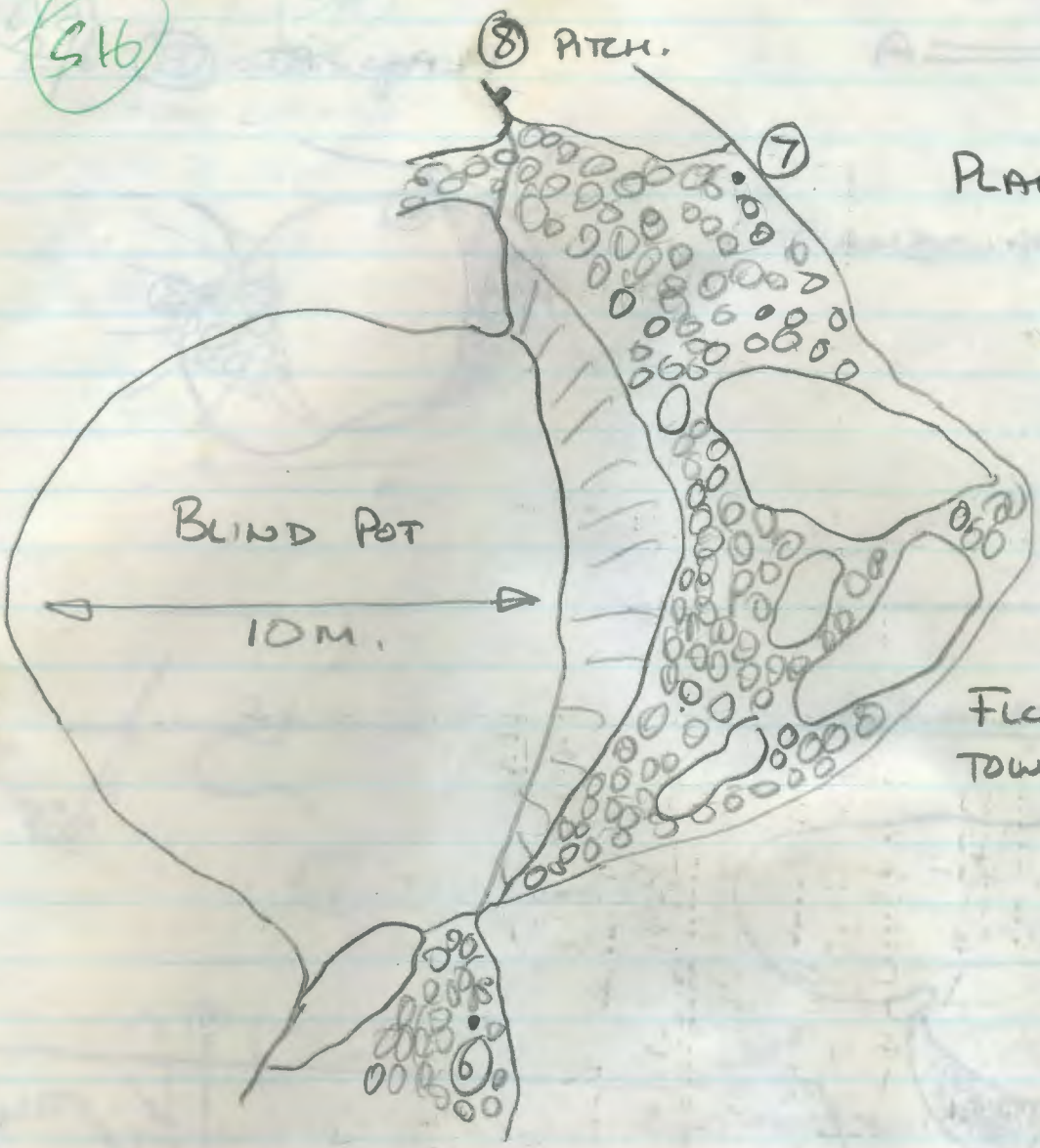

A
SHAFT
3


PLAN AT 3
4
3
LEDGE


PLAN AT 4
4
BOTTOM OF SHAFT.


FLOOR OF SHAFT.
SECTION
6
5

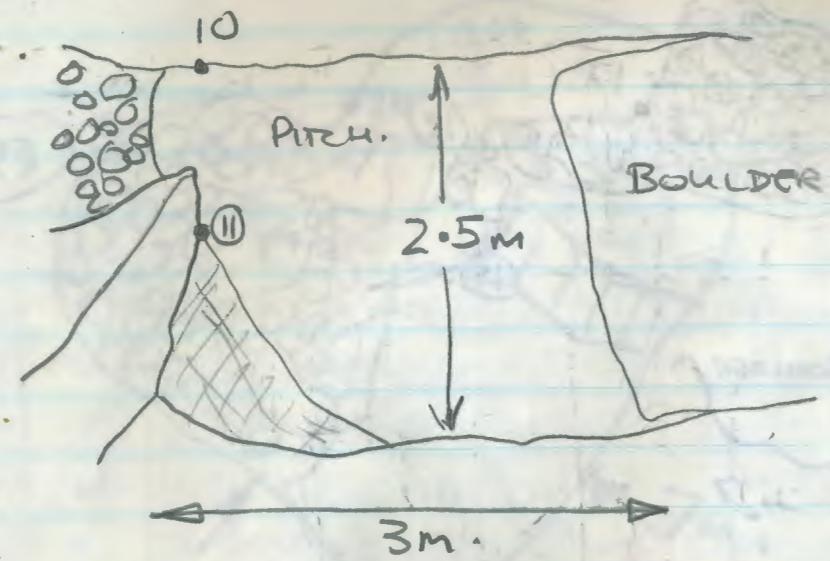
S16

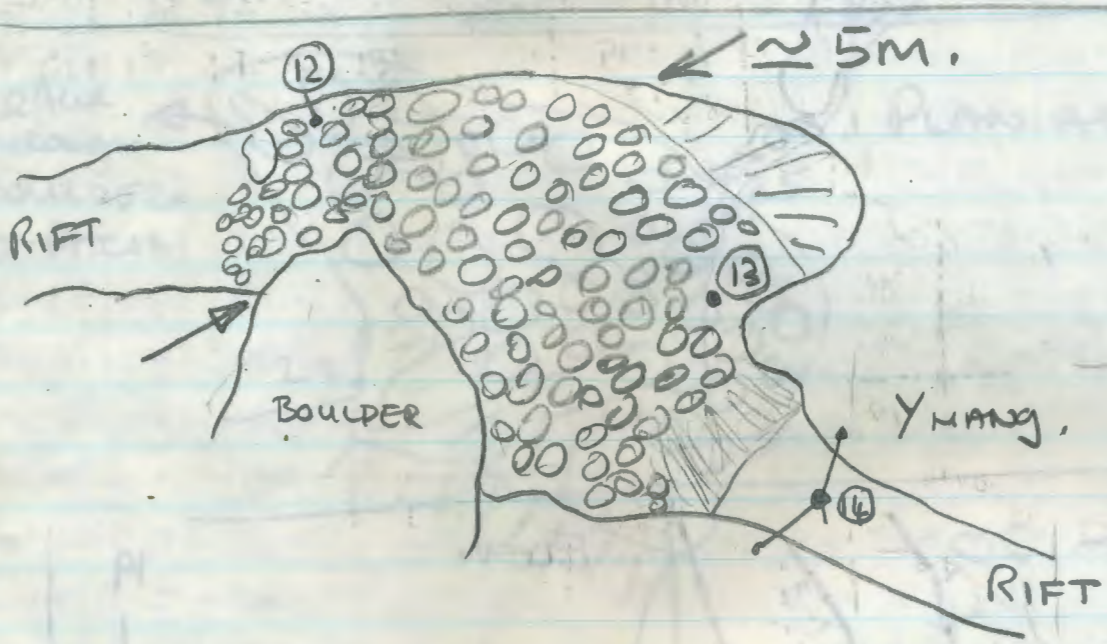

8 PITCH.
7
PLAN at 6
BLIND POT
10M.
FLOOR SLOPING TOWARDS BLIND POT
6


10
PLAN OF FLOOR AT 9
4M
9

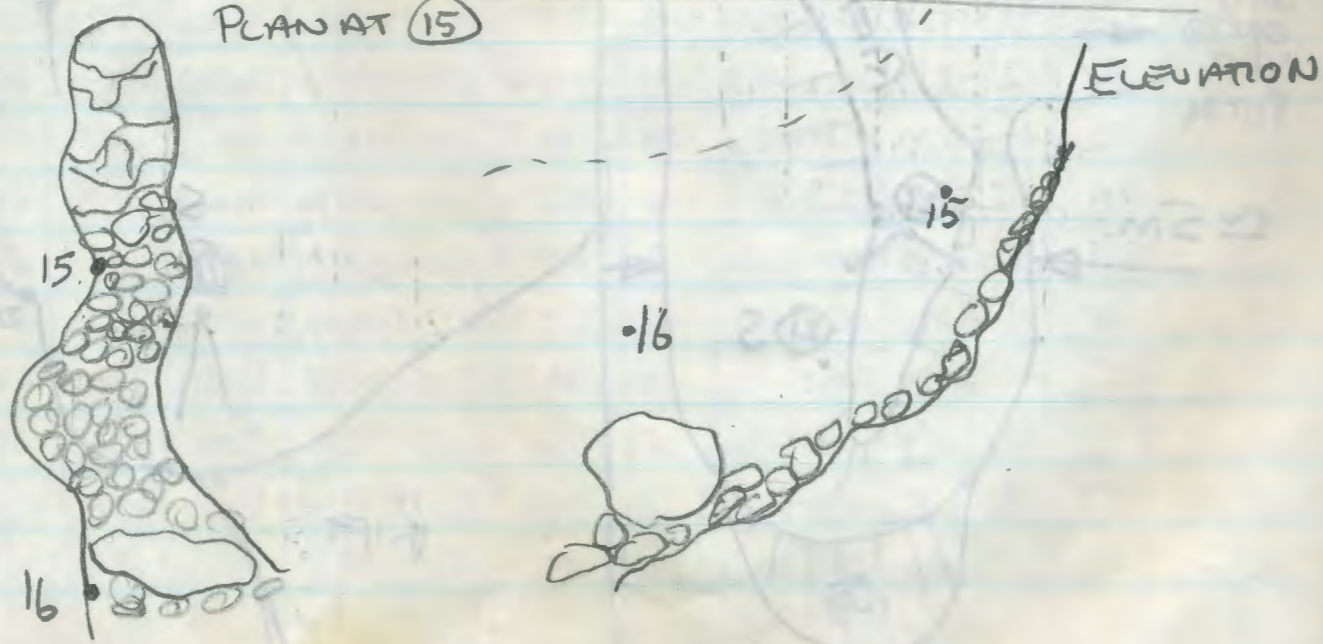

10
9
ELEVATION

PLAN AT (10)

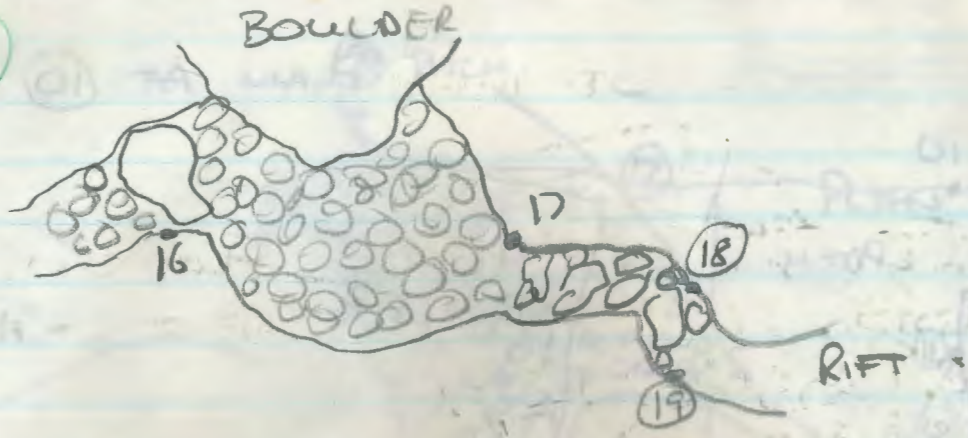




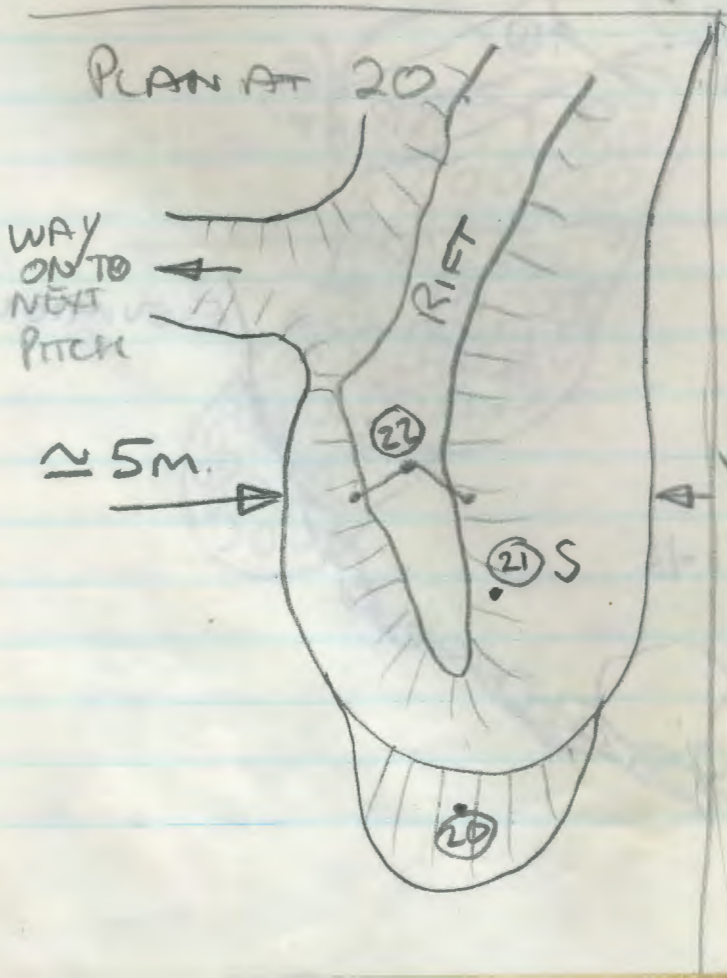
PLAN AT (15)

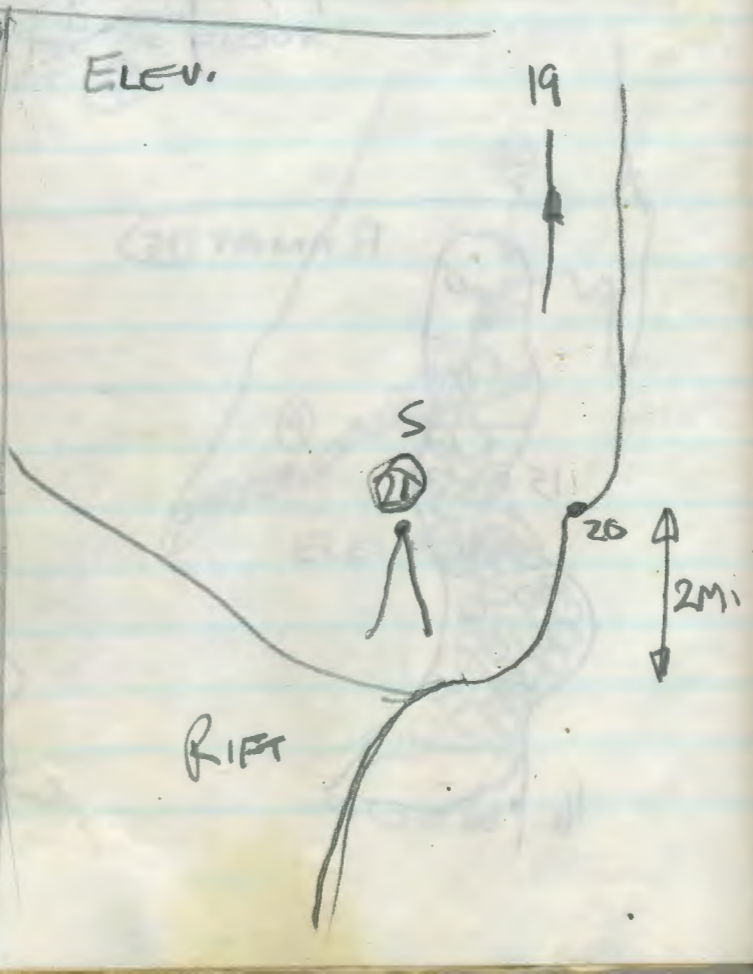


5/8

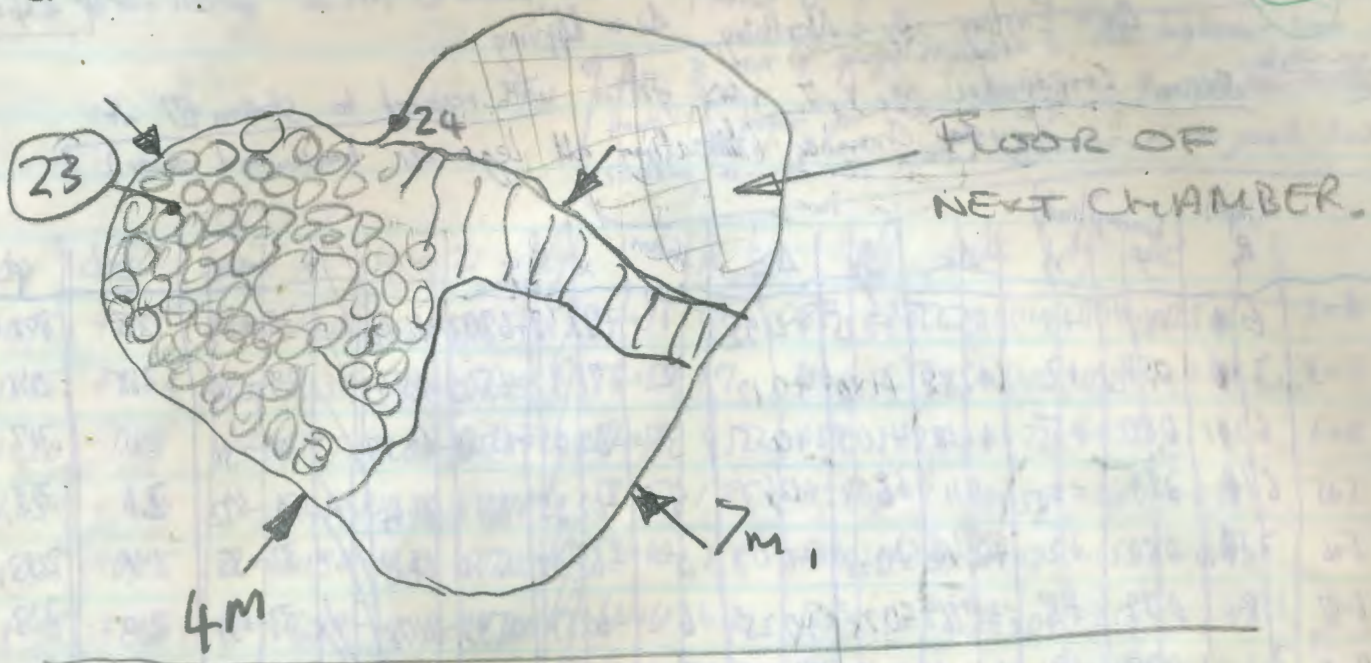

BOULDER
16
17
18
19
RIFT

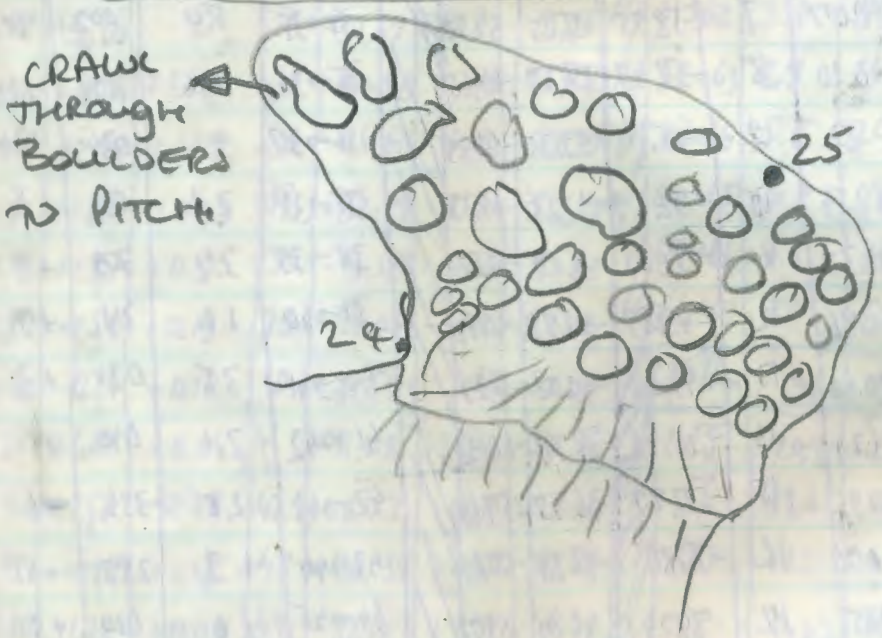

ELEVATION
16
BOULDER
17
18
19
RIFT.


PLAN AT 20
WAY ONTO NEXT PITCH
RIFT
≃ 5M.
22
21
S
20


ELEV.
19
S
21
20
2M.
RIFT

PLAN AT BOTTOM OF RIFT





PLAN AT 25

26/7/88 Evaluation of Ridge Cave survey Steve M./Martin M. (see above)

(S20)

Sump 1 to Crystal Chamber

by Gerhard & hp 15C

Δx = Easting, Δy = Northing, Δz = Upping

Station Coordinates x, y, z are given with respect to station 67 at Crystal Chamber (treating all legs as backward ones)!

	R (tape)	φ (bearing)	ϑ (incl.)	Δx	Δy	Δz	at station	x	y	z
1→2	6.1	067	+9	+5.55	+2.35	+0.95	sump 1	-77.48	-67.73	-66.06
2→3	3.4	058	+2	+2.88	+1.80	+0.12	2	-71.93	-65.38	-65.11
3→4	6.3	080	+5	+6.18	+1.09	+0.55	3	-69.05	-63.58	-64.99
4→5	6.1	359	-4	-0.11	+6.08	-0.43	4	-62.87	-62.49	-64.44
5→6	2.5	080	+2	+2.46	+0.43	+0.09	5	-62.97	-56.40	-64.86
6→7	1.8	099	+8	+1.76	-0.28	+0.25	6	-60.51	-55.97	-64.78
7→8	2.1	037	+2	+1.26	+1.68	+0.07	7	-58.75	-56.25	-64.53
8→9	5.7	024	+1	+2.32	+5.21	+0.10	8	-57.49	-53.57	-64.45
9→10	7.7	022	0	+2.88	+7.14	0	9	-55.17	-49.37	-64.35
10→11	2.8	322	+65	-0.73	+0.93	+2.54	10	-52.29	-42.23	-64.35
11→12	7.3	086	+11	+7.15	+0.50	+1.39	11	-53.02	-41.29	-61.82
12→13	2.2	067	-26	+1.82	+0.77	-0.96	12	-45.87	-40.79	-60.42
13→14	3.8	072	+7	+3.59	+1.17	+0.46	13	-44.05	-40.02	-61.39
14→15	3.8	048	+19	+2.67	+2.40	+1.24	14	-40.46	-38.86	-60.92
15→16	2.4	061	-23	+1.93	+1.07	-0.94	15	-37.79	-36.45	-59.69
16→17	2.3	050	+23	+1.62	+1.36	+0.90	16	-35.86	-35.38	-60.63
17→18	1.7	078	-30	+1.44	+0.31	-0.85	17	-34.24	-34.02	-59.73
18→19	1.6	082	-4	+1.58	+0.22	-0.11	18	-32.80	-33.71	-60.58
19→20	2.1	352	+2	-0.29	+2.08	+0.07	19	-31.21	-33.49	-60.69
20→21	1.9	032	+4	+1.00	+1.61	+0.13	20	-31.51	-31.41	-60.62
21→22	1.9	308	+48	-1.00	+0.78	+1.41	21	-30.50	-29.81	-60.48
22→23	3.7	267	-4	-3.69	-0.19	-0.26	22	-31.50	-29.02	-59.07
23→24	1.3	349	+8	-0.25	+1.26	+0.18	23	-35.19	-29.22	-59.33
24→25	2.8	082	-1	+2.77	+0.39	-0.05	24	-35.44	-27.95	-59.15
25→26	1.5	113	+35	+1.13	-0.48	+0.86	25	-32.66	-27.56	-59.20
26→27	2.7	038	+32	+1.41	+1.80	+1.43	26	-31.53	-28.04	-58.34
27→28	2.1	032	+10	+1.10	+1.75	+0.36	27	-30.12	-26.24	-56.91

	R	φ	ϑ
28→29	2.8	304	+3
29→30	2.5	041	+12
30→31	2.5	317	-49
31→32	2.1	359	+12
32→33	1.4	293	-2
33→34	2.0	323	+66
34→35	5.0	002	0
35→36	2.6	294	+27
36→37	3.4	034	+24
37→38	2.1	039	+8
38→39	3.2	309	+3
39→40	1.6	341	+7
40→41	3.5	094	+3
41→42	2.1	040	+1
42→43	2.8	334	-6
43→44	1.9	283	+51
44→45	1.6	030	+3
45→46	2.2	320	+42
46→47	1.1	007	+6
47→48	3.1	038	+23
48→49	1.1	064	+20
49→50	1.4	024	0
50→51	2.2	101	+60
51→52	3.1	081	+47
52→53	2.5	101	+45
53→54	4.6	023	+8
54→55	1.8	112	+18

The gap at Crystal Chamber to be filled in 26/7/86 by Dave Horsley & Phil Duncan. (about 6' 2)

this is out of page sequence in the logbook — turn back 5 pages for the linkings to the previous survey sections, as well as for station coordinates w.r.t. last year's limit!

Δx	Δy	Δz	at station	x	y	z
-2.32	+1.56	+0.15	28	-29.03	-24.48	-56.54
+1.60	+1.85	+0.52	29	-31.35	-22.92	-56.39
-1.12	+1.20	-1.89	30	-29.74	-21.08	-55.87
-0.04	+2.05	+0.44	31	-30.86	-19.88	-57.76
-1.29	+0.55	-0.05	32	-30.90	-17.82	-57.32
-0.49	+0.65	+1.83	33	-32.18	-17.28	-57.38
+0.17	+5.00	0	34	-32.67	-16.63	-55.55
-2.12	+0.94	+1.18	35	-32.50	-11.63	-55.55
+1.74	+2.58	+1.38	36	-34.61	-10.69	-54.37
+1.31	+1.62	+0.29	37	-32.88	-8.11	-52.98
-2.48	+2.01	+0.17	38	-31.57	-6.50	-52.69
-0.52	+1.50	+0.19	39	-34.05	-4.48	-52.52
+3.49	-0.24	+0.18	40	-34.57	-2.98	-52.33
+1.35	+1.61	+0.04	41	-31.08	-3.23	-52.15
-1.22	+2.50	-0.29	42	-29.73	-1.62	-52.11
-1.17	+0.27	+1.48	43	-30.95	+0.88	-52.40
+0.80	+1.38	+0.08	44	-32.12	+1.15	-50.92
-1.05	+1.25	+1.47	45	-31.32	+2.54	-50.84
+0.13	+1.09	+0.12	46	-32.37	+3.79	-49.37
+1.76	+2.25	+1.21	47	-32.24	+4.88	-49.25
+0.93	+0.45	+0.38	48	-30.48	+7.12	-48.04
+0.57	+1.28	0	49	-29.55	+7.58	-47.67
+1.08	-0.24	+1.91	50	-28.98	+8.86	-47.67
+2.09	+0.33	+2.27	51	-27.90	+8.65	-45.76
+1.74	-0.34	+1.77	52	-25.81	+8.98	-43.49
+1.78	+4.19	+0.64	53	-24.08	+8.64	-41.73
+1.59	-0.64	+0.56	54	-22.30	+12.83	-41.09

	R	↕	↔	Δx	Δy	Δz
55→56	1.2	088	+28	+1.06	+0.04	+0.56
56→57	1.7	104	+32	+1.40	-0.35	+0.90
57→58	4.5	087	+20	+4.22	+0.22	+1.54
58→59	1.8	119	+4	+1.52	-0.87	+0.13
59→60	2.1	145	+26	+1.08	-1.55	+0.92
60→61	4.2	125	+28	+3.04	-2.13	+1.97
61→62	3.3	117	+24	+2.69	-1.37	+1.34
62→63	8.9	142	+78	+1.01	-1.55	+8.71
63→64	5.8	120	+23	+4.62	-2.67	+2.27
64→65	16.8	(0)	+90	0	0	+16.8
65→66	6.6	220	+45	-3.00	-3.58	+4.67
66→67	3.5	062	+12	+3.02	+1.64	+0.73

station	x	y	z
55	-20.71	+12.19	-40.53
56	-19.65	+12.23	-39.97
57	-18.25	+11.88	-38.07
58	-14.03	+12.10	-37.53
59	-12.46	+11.23	-37.40
60	-11.38	+8.68	-36.48
61	-8.34	+7.56	-34.57
62	-5.65	+6.19	-33.17
63	-4.65	+4.64	-24.46
64	-0.02	+6.97	-22.19
65	-0.02	+1.97	-5.39
66	-3.02	-1.61	-0.73
67 Crystal Chamber	0	0	0

~~Where are Dave H's and Phil D's survey notes??~~ oops, found them way back.

S22

Survey Trip L on Computer

Survey of 2/6 Connection to Ridge 2/8/86

P Cooper Book

R Grayson Instruments

G Naylor Tape

Clino 510270

Compass 514447

Start of survey is large S on plate at bad head of Slit Creek

Final station is top of boulder directly below Dino Pitch. No mark could be found but this point is the landing for the pitch.

	Compass	Clino	Tape	Station	Passage ht	P. Width	Station ht.
1 → S	158°	−15°	5.2 m	1	?	1 m	1.4
1 → 2	248	−25	4.85	2	?	0.75	1.7
3 → 2	129	−14	2.0	3	?	0.5	?
3 → 4	217	−84	15.65	4	?	?	?
4 → 5	351	−38	1.2	5	?	?	?
5 → 6	0	−90	60.3	6	75	15	0
7 → 6	63°	+37	10.7	7	"	"	0
7 → 8	239	−65	9.45	8	85	12	?
9 → 8	141	+62	15.1	9	?	?	1
9 → 10	009	−65	26.8	10	?	?	?
10 → 11	0	−90	21.4	11	?	2	0
12 → 11	147	−8	5.75	12	?	2	1.8
12 → 13	300	−48	10.1	13	?	1	1.5
14 → 13	153	+17	2.6	14	?	1	?
14 → 15	028	+19	7.5	15	?	2.5	?
16 → 15	150	−40	5.2	16	?	1	1.8
16 → 17	330	−3	5.7	17	?	1	?
18 → 17	175	−30	4.6	18	?	1	?
18 → 19	004	+5	6.3	19	?	0.5	?
20 → 19	195	−16	8.0	20	?	1	?
20 → 21	37°	+23	11.65	21	?	1.5	0

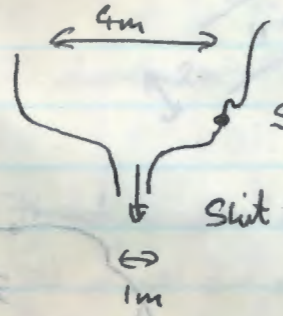
	Compass	Clino	Tape	Station	PH	PW	SH
22→21	190	-32	9.6	22	?	2 m	1.8
22→23	38	-59	26.6	23	?	?	1.5
24→23	15	+30	15.9	24	?	?	0.5

NB 26m legs at an inclination of -59° are bound to produce several metres horizontal error! Compliments — Yeakland.

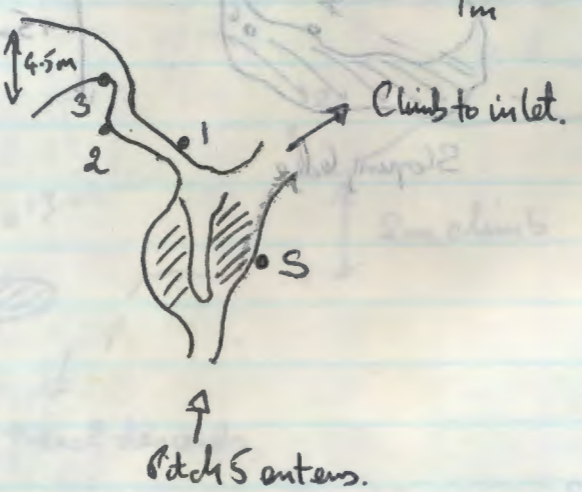
Notes: Station 5 is bolt at rebolay of 60m pitch.
2m climb down between stations 12-13

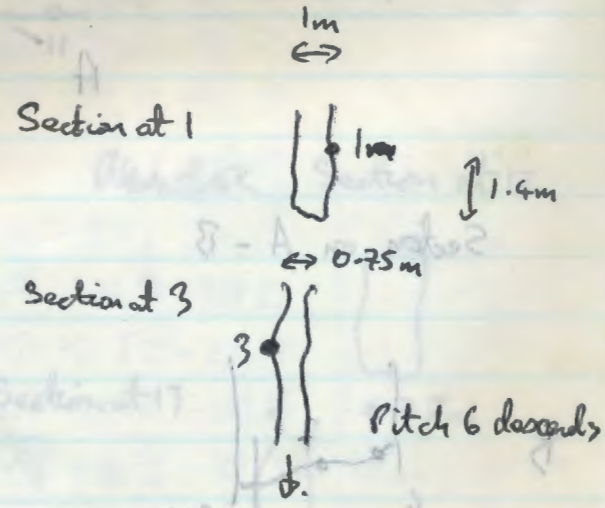
Drawings

Slit Creek (Section)



(Plan)

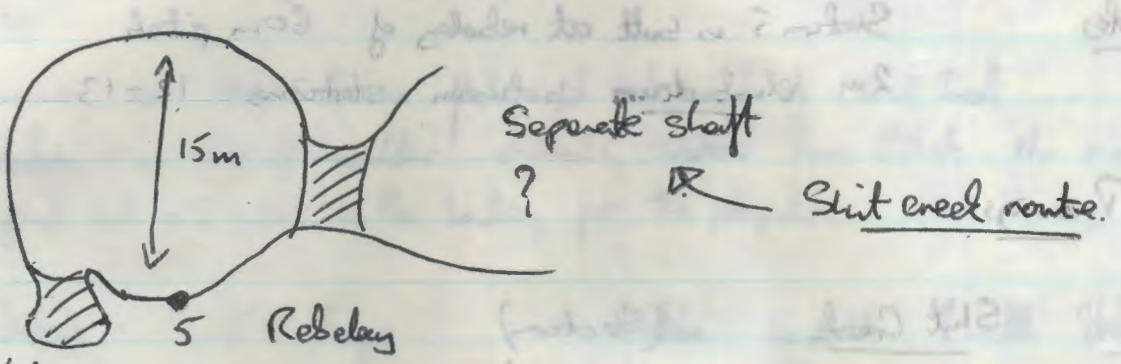




(S24)

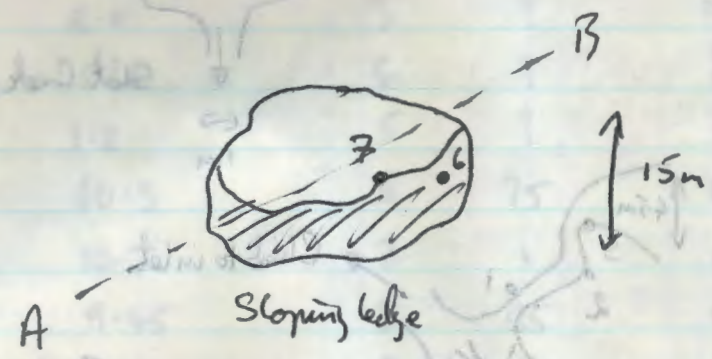
Plan at level of bolt rebolt (Station 5)

15 m down shaft from top of pitch.
Shaft is in 2 hops of 15m and 60m.

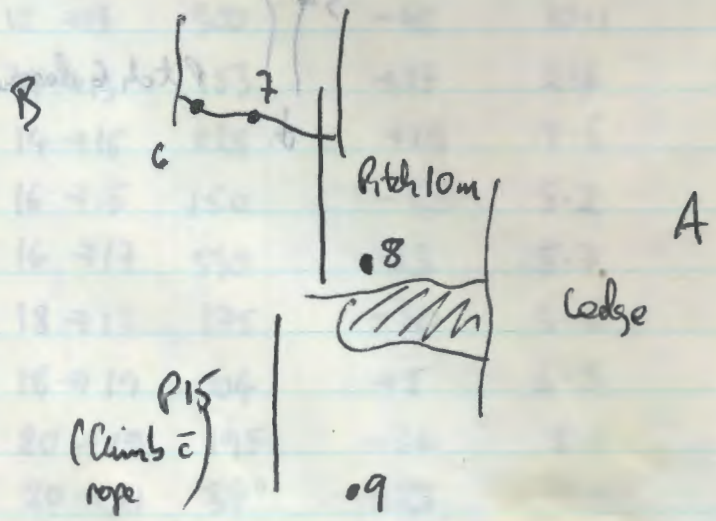


Small ledge immediately below top take off

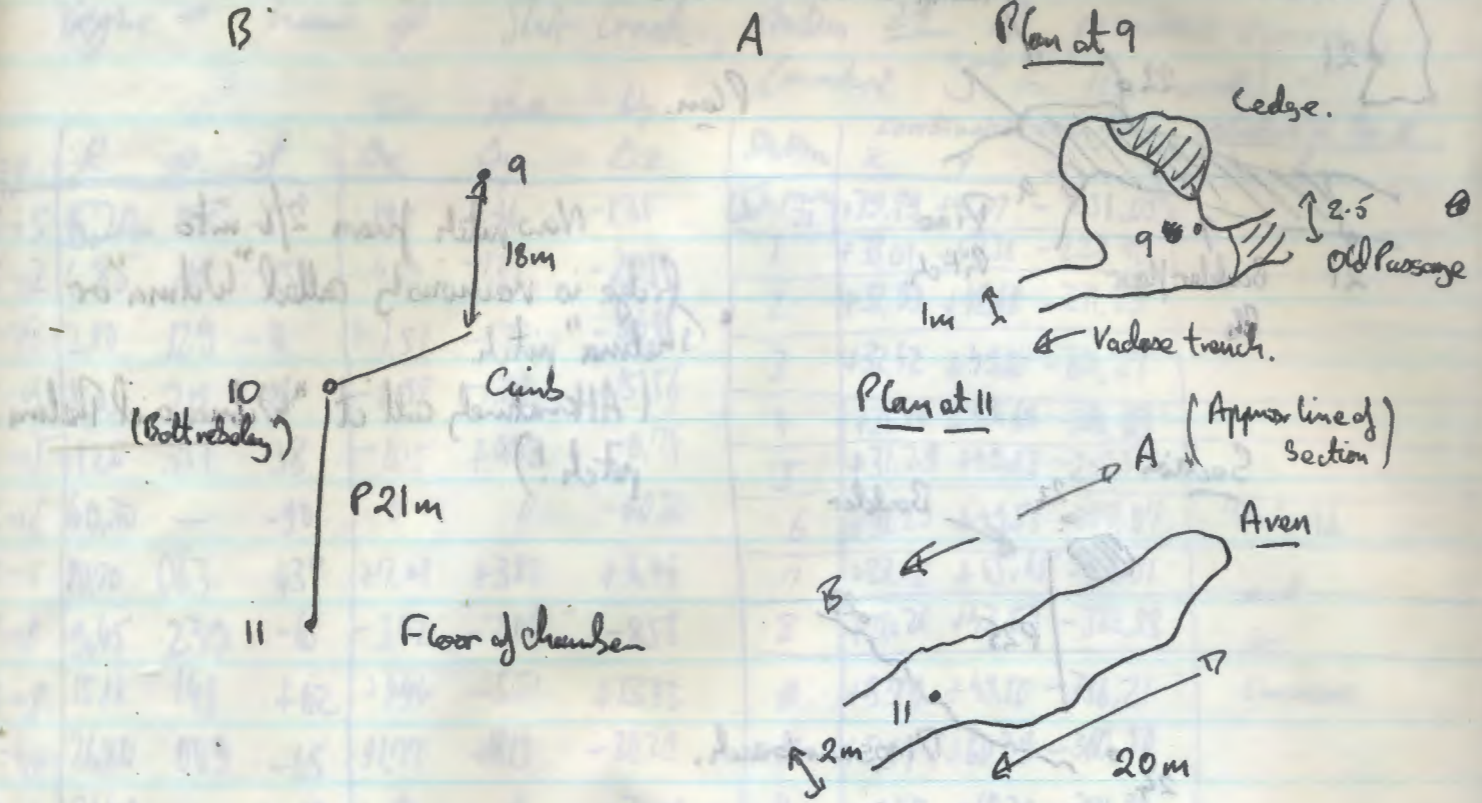
Plan at base of pitch



Section on A - B

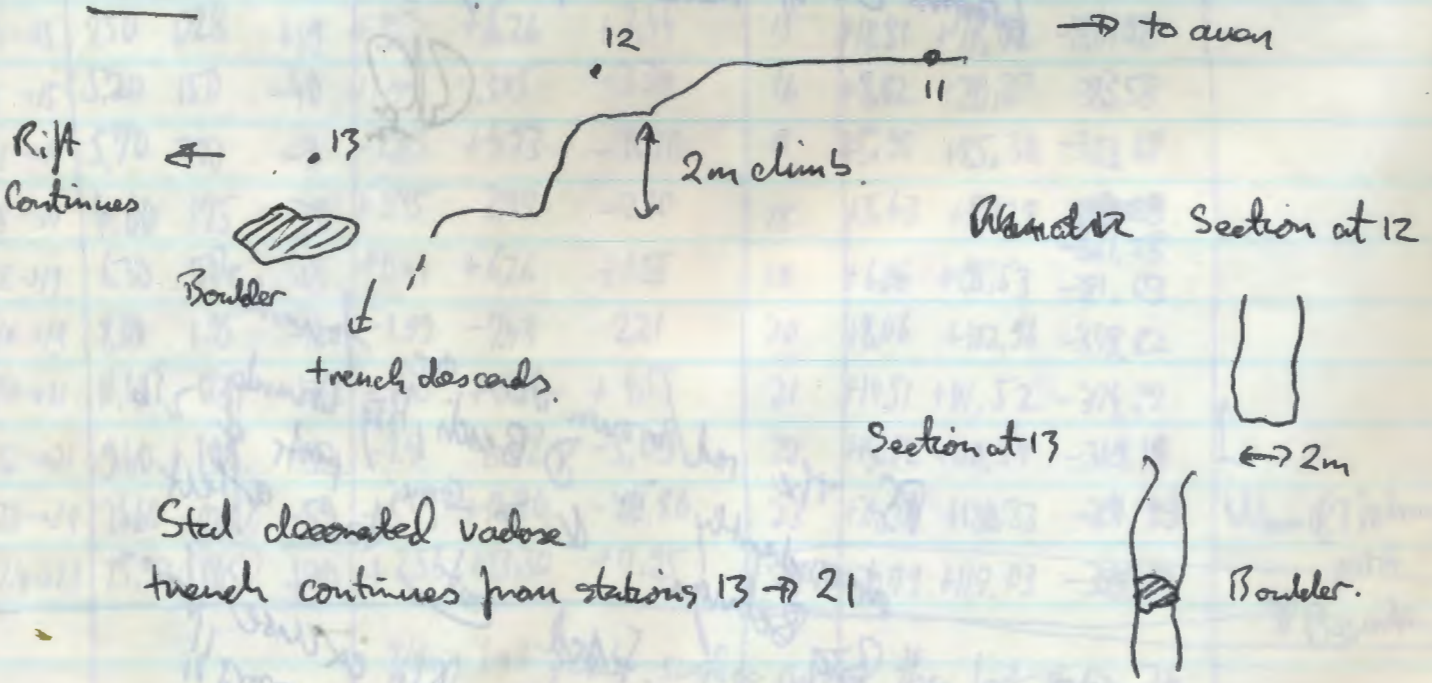


Station 9 is 3m to (R) of second rebolting after bad big ledge of station 6.

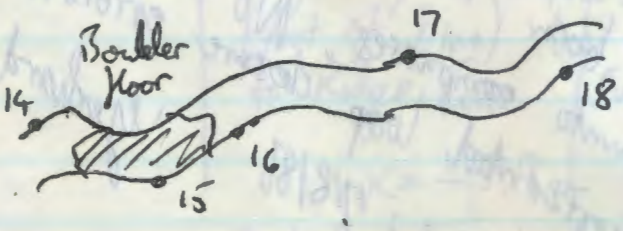


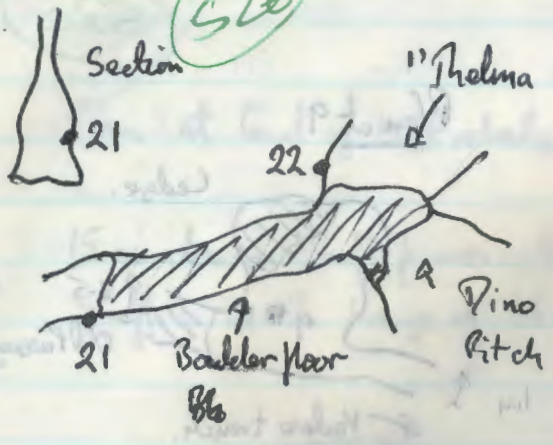
After station 11 route enters vadose trench.

Section

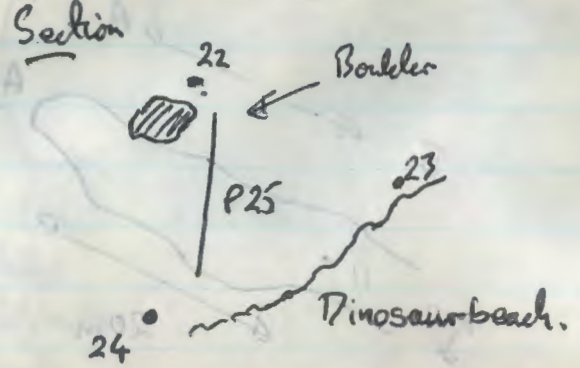


Steel decorated vadose trench continues from stations 13 → 21





New pitch from 2/6 into Ridge is humorously called "Wilma" or "Thelma" pitch.
(Alternatively call it "Wilma and Thelma pitch!)



24 is boulder at foot of Dino pitch. Couldn't find any survey stations but this is the boulder Dino lands on.
(Station C15 of RIDGE on computer, leg 73)

PS: the red/brown wax are found abundantly in D'Beach, Big Crunch, Big Beluga & in some parts of 2/6 has been tested but to effect Suunto compasses. No excuse for horizontal loop closure errors!!
Gerhard
17/8/86

Evaluation of above 26 survey 7/8/86

S27

Begins at head of Shit Creek, station 21 of previous survey (marked "5" on the wall)

Leg	R	φ	ψ	East Δx	North Δy	Up Δz
1→5	5.20m	158°	-15°	+1.88	-4.66	-1.35
1→2	6.85	248	-25	-4.08	-1.65	-2.05
3→2	2.00	129	-14	+1.51	-1.22	-0.48
3→4	15.65	217	-84	-0.98	-1.31	-15.56
4→5	1.20	351	-38	-0.15	+0.93	-0.74
5→6	60.30	—	-90	0	0	-60.30
7→6	10.70	063	+37	+7.61	+3.88	+6.44
7→8	9.45	239	-65	-3.42	-2.06	-8.56
9→8	15.10	141	+62	+4.46	-5.51	+13.33
9→10	26.80	009	-65	+1.77	+1.19	-24.29
10→11	21.40	—	-90	0	0	-21.40
12→11	5.75	147	-8	+3.10	-4.78	-0.80
12→13	10.10	300	-48	-5.85	+3.38	-7.51
14→13	2.60	153	+17	+1.13	-2.22	+0.76
14→15	7.50	028	+19	+3.33	+6.26	+2.44
16→15	5.20	150	-40	+1.99	-3.45	-3.34
16→17	5.70	330	-3	-2.85	+4.93	-0.30
18→17	4.60	175	-30	+0.35	-3.97	-2.30
18→19	6.30	004	+5	+0.44	+6.26	+0.55
20→19	8.00	195	-16	-1.99	-7.43	-2.21
20→21	11.65	037	+23	+6.45	+8.56	+4.55
22→21	9.60	190	-32	-1.41	-8.02	-5.09
22→23	26.60	038	-59	+8.43	+10.80	-22.80
24→23	15.90	015	+30	+3.56	+13.30	+7.95

Coordinates now given relative to Up of shaft!

Station	x	y	z	
5 = previous 21	+39.89	+45.67	-231.05	
1	+38.01	+50.33	-229.70	
2	+33.93	+48.68	-231.75	
3	+32.42	+49.90	-231.27	
4	+31.44	+48.60	-246.83	
5	+31.29	+49.53	-247.57	
6	+31.29	+49.53	-307.87	'70m' pitch
7	+23.68	+45.65	-314.31	
8	+20.26	+43.59	-322.88	and its
9	+15.79	+49.10	-336.21	successors
10	+17.57	+60.29	-360.50	
11	+17.57	+60.29	-381.90	
12	+14.46	+65.06	-381.10	
13	+8.61	+68.44	-388.60	decorated rift
14	+7.48	+70.66	-389.36	
15	+10.81	+76.92	-386.92	
16	+8.82	+80.37	-383.58	
17	+5.97	+85.30	-383.88	
18	+5.63	+89.27	-381.58	
19	+6.06	+95.53	-381.03	
20	+8.06	+102.96	-378.82	
21	+14.51	+111.52	-374.27	
22	+15.92	+119.54	-369.18	
23	+24.36	+130.33	-391.99	Wilma & Thelma pitch
24	+20.79	+117.03	-399.94	D'Beach

Using last years surface survey, the last station 24 (foot of Dino) has coordinates with respect to Ridge Cave Survey Station 0:

x = -55.7m y = +27.7m z = -332.7m

I lack last years data at the moment, but this looks not too much out! Congratulations, Gerhard

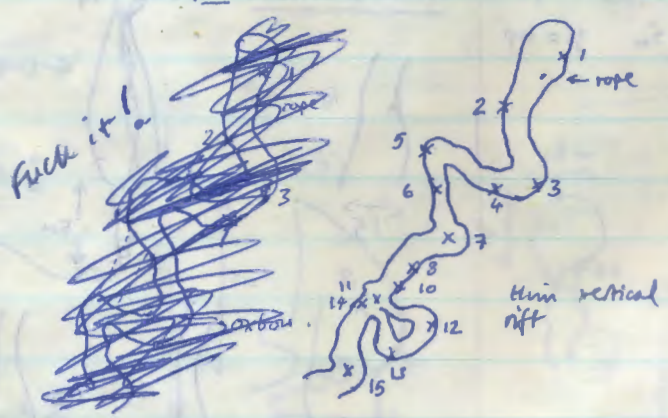
F20 Survey 1986 – beginning at survey station at end of '85 survey ie bottom of pitch below calamity Jane.

Darrell (tape), Fred (instrs), Richard (book) 5–7 August 1986

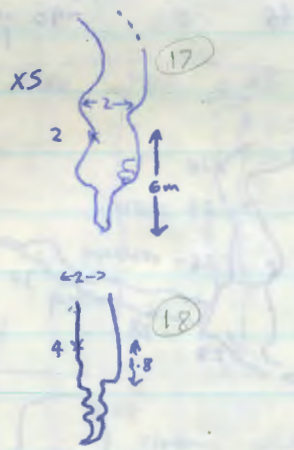
M

S→S	Tape	Bearing	Inclination	Pw	Above floor.
1→2	8.10	149	+27	2 m	1 = 1985 point, 2 = 4m.
3→2	7.45	294	-14	2.5	3 = 5m
3→4	6.25	174	+51	2	
5→4	9.10	349	-39	2	5 = standing height (4H) from ledge.
5→6	3.88	070	-28	1	6 = knot secondary.
7→6	5.35	223	+69	1	7 on semi pitch = diagonal abseil.
7→8	5.97	100	-47	1	8 below rebelay.
18→9	6.30	0	-90	1	
10→9	4.10	figure unreadable ? = 06	+59	0.5	thin rift bearing difficult but v. steep leg. Entered as '206' Sgk
11→10	2.10	0	+04		
12→11	2.81	244	+16		5m below
13→12	2.24	290	+45	0.5	
14→13	4.9	42	+44	0.5	

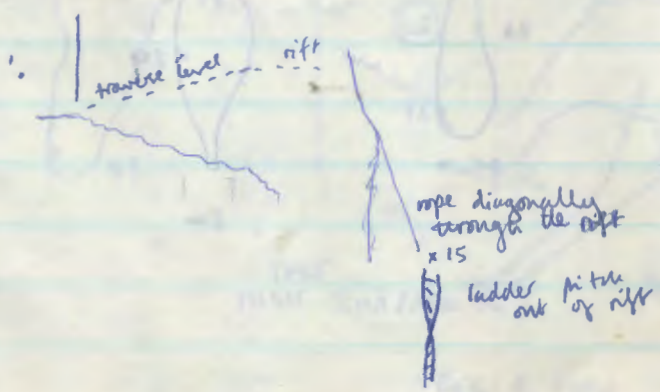
plan

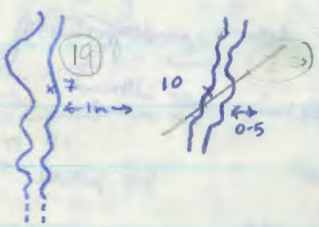


Xsections



Rough Elevation from memory

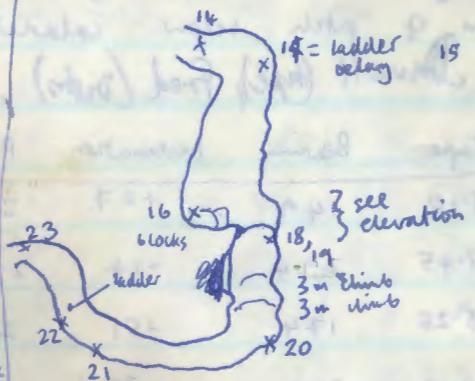




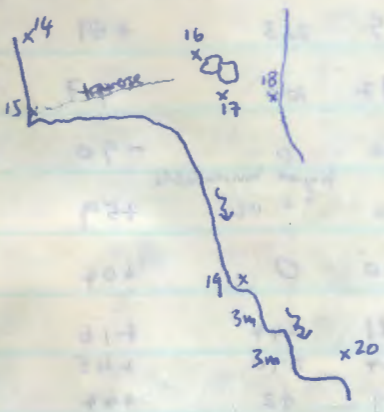
F20 survey (cont) (S29)

S→S	Tape	Bearing	Inclination	Pitch	above floor
14→15	11.59	137	-79	2m	14 = ladder belay, 15 see ×5, 16 up in niche
16→15	10.84	42	-41	1.5m	
16→17	5.53	114	+64	1.0	
17→18	1.78	96	-16	5m	
19→18	24.25	0	+90	5m	19 = 1.8m above floor
20→19	13.14	253	+43	1.5m	20 = 1m
20→21	9.84	184	+13	1.2	1.8 above a ledge
22→21	5.70	027	-13	1.2	top of a pitch
22→23	6.95	217	-71		23 = 5m above the stream
24→23	1.38	299	+33	0.5	24 = 5m
24→25	2.84	157	-58	0.5	25 = 2° belay
25→26	8.10	183	-65	2m	
27→26	23.50	286	+75	5m	27 on the floor
27→28	7.15	032	-41	1.5m	
29→28	2.10	122	-1.0	1.5m	
29→30	5.32	351	-18	2m	30 = bottom of rope
31→30	15.45	0	-90 ie pitch up	5m	31 = top

Plan

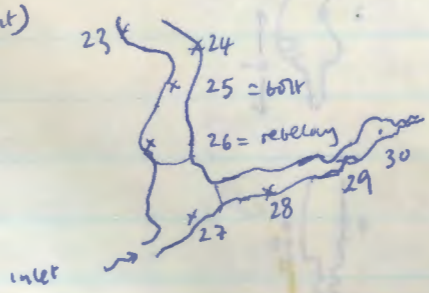


Elevation (drawn in cave)



Cross sections

Plan (cont)



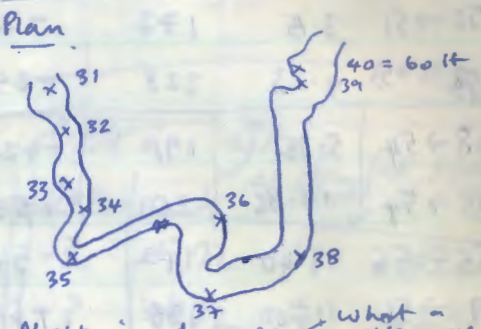
Elevation (again drawn underground!)

P20 (cont).

S30

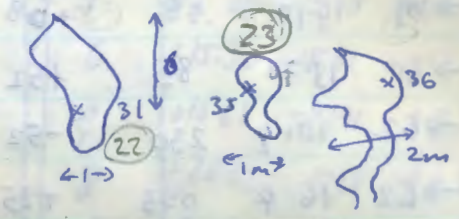
S→S	Tape	bearing	Inclination	Aw	above floor. ↓	below roof
32→31	2.33	146	-03	1.5	Night in	31 = 6m
32→33	2.35	043	+04	1.0	Amnesia	32 = 4 m
34→33	3.09	159	+19	1.0	∴ no floor	33 = 2 m
34→35	3.44	042	-18	1.0	phreatic tube with	34 = 1 m
36→35	5.05	128	+4	1.0	rubble trench below	35 = 0m 36 = 1 m
36→37	3.33	320	+4	2m		37 = 1m
38→37	2.89	198	+30	1m		
38→39	10.38	297	-11	1.5m		
39→40	0.68	345	+8	1.5m		
40→41	13.80	017	-52	7m		
42→41	3.90	266	-31	2m		
42→43	10.45	66	-2	3m		
44→43	25.48	176	-62	2m at 43		
44→45	16.42	49	+7	2m		
46→45	11.33	254	+9			
46→47	9.27	045	+12	4		

Plan

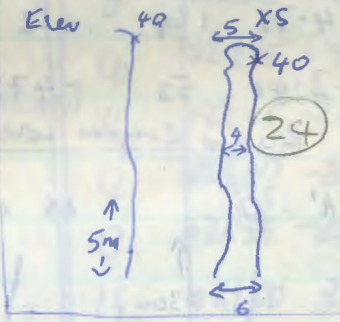


Night in Amnesia — what a terrible name!

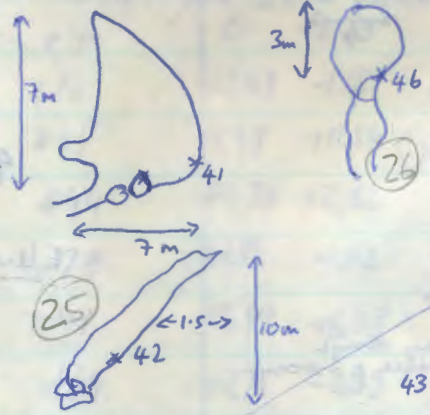
XS



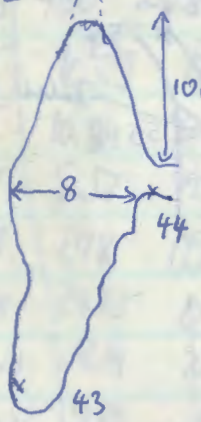
Elev



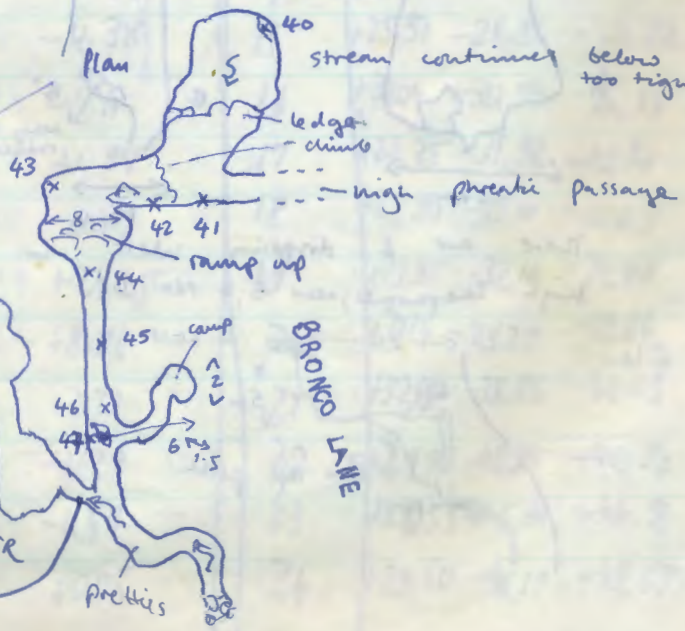
XS



Elevation



Plan



THE HIGH CHAPARRAL

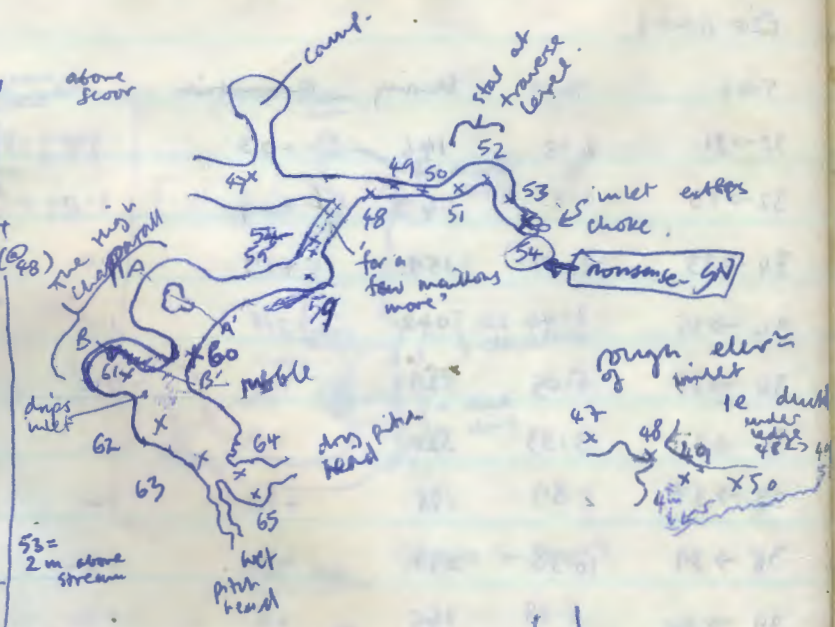
SEE OVER

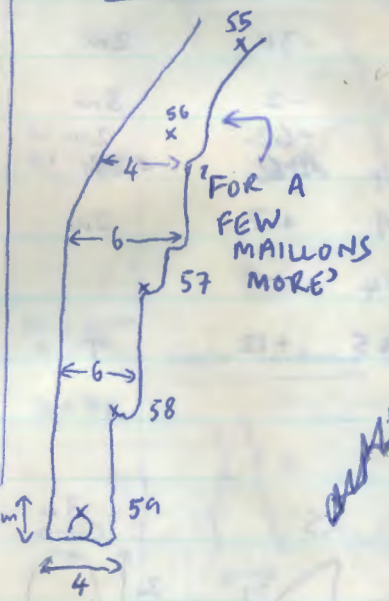
FOR A FEW MAILLONS MORE

F20 survey (cont) (S31)

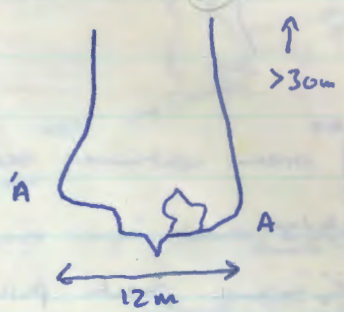
S→S	Tape	Bearing	Inclination	Pw
55→56	8.40	142	-54	3
57→56				
48→47	10.27	224	+10	2m (@48)
48→49	3.87	004	-48	2m
50→49	5.50	240	+2	1m
50→51	5.42	346	+16	2m
52→51	3.15	177	-2	1.5
52→53	4.23	228	-25	1.5
48→54	5.35	191	-42	1m
55→54	17.86	269	+53	
55→56	8.40	142	-54	3m
57→56	15.00	188	+69	3
57→58	17.85	161	-70	4
58→59	14.25	146	-74	4
60→59	14.10	58	+08	3
61→60	13.70	83	+52	15
61→62	10.4	230	-52	
63→62	16.4	053	+35	1m
63→64	4.71	164	+12	blocks
65→64	3.41	53	-47	3

end of survey! Richard Grayson notes.

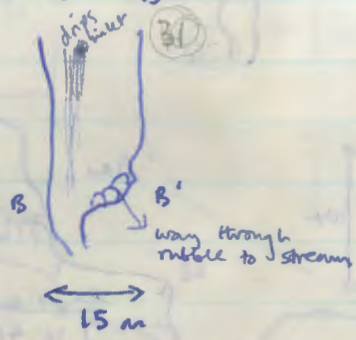


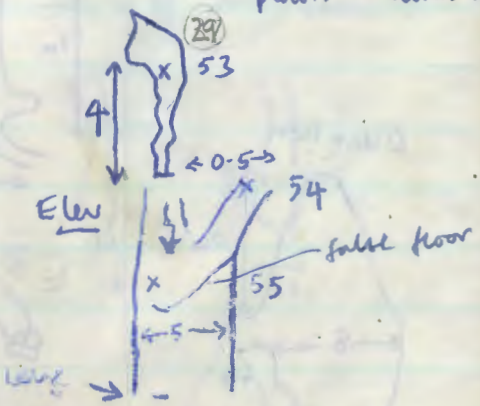


XS at AA' (30)



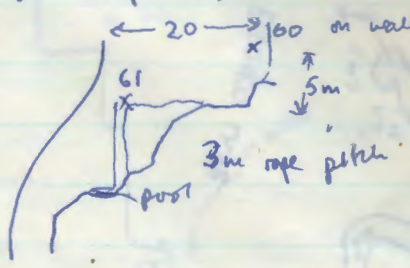
XS at BB' (31)



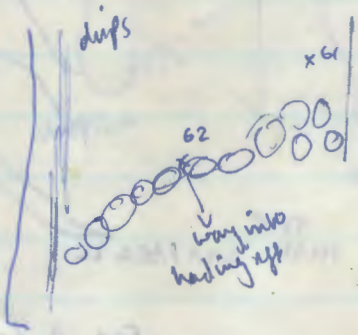


There are 2 dripping inlets in the high chaparall, near B, & near G2.

Elev.

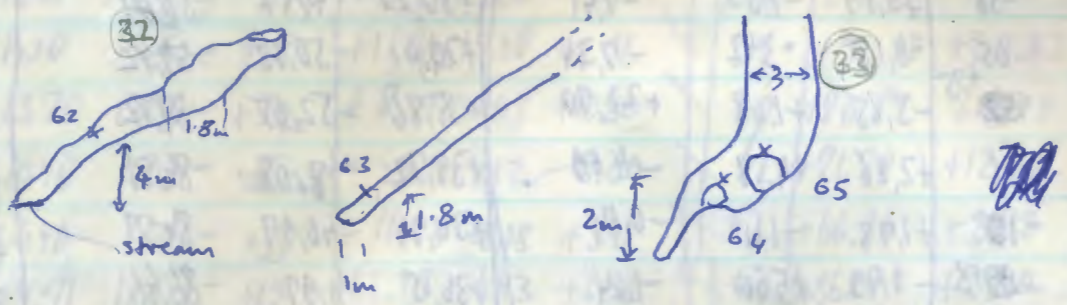


Elev.



S 32

XS at 62:



Evaluation of the above 8/8/86 GN

leg	R	φ	ψ	Δx (E)	Δy CNS	Δz (up)	Station	x	y	z
1→2	8.10	149	+27	+3.72	−6.19	+3.68	2	+3.72	−6.19	+3.68
3→2	7.45	294	−14	−6.60	+2.94	−1.80	3	+10.32	−2.13	+5.48
3→4	6.25	174	+51	+0.41	−3.91	+4.86	4	+10.73	−13.04	+10.34
5→4	9.10	349	−39	−1.35	+6.94	−5.73	5	+12.08	−19.98	+16.06
5→6	3.88	070	−28	+3.22	+1.17	−1.82	6	+15.30	−18.81	+14.24
7→6	5.35	223	+69	−1.31	−1.40	+4.99	7	+16.61	−17.41	+9.25
7→8	5.97	100	−49	+4.01	−0.71	−4.39	8	+20.62	−18.11	+4.88
8→9	6.30	0	−90	0	0	−6.30	9	+20.62	−18.11	−1.42
10→9	4.10	300 (guessed)	+59	−1.83	+1.06	+3.51	10	+22.45	−19.17	−4.93
		(variation over the whole 360° causes ±2.1m difference horizontally)								
11→10	2.10	0	+4	0	+2.09	+0.15	11	+22.45	−21.26	−5.08
12→11	2.81	244	+16	−2.43	−1.18	+0.77	12	+24.87	−20.08	−5.85
13→12	2.24	290	+45	−1.49	+0.54	+1.58	13	+26.36	−20.62	−7.44
14→13	4.90	042	+44	+2.36	+2.62	+3.40	14	+29.00	−23.24	−10.84
14→15	1.59	137	−79	+1.51	−1.62	−11.38	15	+25.51	−24.86	−22.22
16→15	10.84	042	−41	+5.47	+6.08	−7.11	16	+30.04	−30.94	−15.11
16→17	5.53	114	+64	+2.21	−0.99	+4.97	17	+22.25	−31.92	−10.14
17→18	1.78	096	−16	+1.70	−0.18	−0.49	18	+23.95	−32.10	−10.63
19→18	24.25	0	+90	0	0	+24.25	19	+23.95	−32.10	−34.88
20→19	13.14	253	+43	−9.19	−2.81	+8.96	20	+33.14	−29.29	−43.84
20→21	9.84	184	+13	−0.67	−9.56	+2.21	21	+32.48	−38.86	−41.63
22→21	5.70	027	−13	+2.52	+4.95	−1.28	22	+29.95	−43.81	−40.34
22→23	6.95	217	−71	−1.36	−1.81	−6.57	23	+28.59	−45.61	−46.91
24→23	1.38	299	+33	−1.01	+0.56	+0.75	24	+29.60	−46.17	−47.67

as from last year's limit of survey

533 Evaluation of above F20 survey (cont'd) 8/8/86 G.N.

leg	R	φ	∠	E Δx	N Δy	up Δz	as from 85 limit of survey x	y	z	← at station
24→25	2.84	157	-58	+0.59	-1.39	-2.41	+30.19	-47.56	-50.07	25
25→26	8.10	183	-65	-0.18	-3.42	-7.34	+30.01	-50.98	-57.42	26
27→26	23.50	286	+75	-5.85	+1.68	+22.70	+35.86	-52.65	-80.12	27
27→28	7.15	032	-41	+2.86	+4.58	-4.69	+38.72	-48.08	-84.81	28
29→28	2.10	122	-10	+1.78	-1.11	-0.04	+36.94	-46.97	-84.77	29
29→30	5.32	351	-18	-0.79	+5.00	-1.64	+36.15	-41.97	-86.41	30
31→30	15.45	0	-90	0	0	-15.45	+36.15	-41.97	-70.96 (initial up)	31
32→31	2.33	146	-3	+1.30	-1.93	-0.12	+34.85	-40.04	-70.84	32
32→33	2.35	043	+4	+1.60	+1.71	+0.16	+36.45	-38.33	-70.68	33
34→33	3.09	159	+19	+1.05	-2.73	+1.01	+35.40	-35.60	-71.68	34
34→35	3.44	042	-18	+2.19	+2.43	-1.06	+37.59	-33.17	-72.75	35
36→35	5.05	128	+4	+3.97	-3.10	+0.35	+33.62	-30.06	-73.10	36
36→37	3.33	320	+4	-2.14	+2.54	+0.23	+31.48	-27.52	-72.87	37
38→37	2.89	198	+30	-0.77	-2.38	+1.45	+32.26	-25.14	-74.31	38
38→39	10.38	297	-11	-9.08	+4.63	-1.98	+23.18	-20.51	-76.29	39
39→40	0.68	345	+8	-0.17	+0.65	+0.09	+23.00	-19.86	-76.20	40
40→41	13.80	017	-52	+2.48	+8.12	-10.87	+25.49	-11.74	-87.07	41
42→41	3.90	266	-31	-3.33	-0.23	-2.01	+28.82	-11.51	-85.06	42
42→43	10.45	066	-2	+9.54	+4.25	-0.36	+38.36	-7.26	-85.43	43
44→43	25.48	176	-62	+0.83	-11.93	-22.50	+39.53	+4.68	-62.93	44
44→45	16.42	049	+7	+12.30	+10.69	+2.00	+49.83	+15.37	-60.93	45
46→45	11.33	254	+9	-10.76	-3.08	+1.77	+60.59	+18.45	-62.70	46
46→47	9.27	045	+12	+6.41	+6.41	+1.93	+67.00	+24.86	-60.77	47
48→47	10.27	224	+10	-7.03	-7.28	+1.78	+74.02	+32.14	-62.56	48
48→49	3.87	004	-48	+0.18	+2.58	-2.88	+74.20	+34.72	-65.43	49
50→49	5.50	240	+2	-4.76	-2.75	+0.19	+78.96	+32.47	-65.63	50
51→50	5.42	346	+16	-1.26	+5.06	+1.49	+77.70	+42.53	-64.13	51
52→51	3.15	177	-2	+0.16	-3.14	-0.11	+77.54	+45.67	-64.02	52
52→53	4.23	228	-25	-2.85	-2.57	-1.79	+74.69	+43.10	-65.81	53
48→54	5.35	191	-42	-0.76	-3.50	-3.58	+73.26	+28.24	-66.14	54
55→54	17.86	269	+53	-10.75	-0.19	+14.26	+84.01	+28.42	-80.40	55
55→56	8.40	142	-54	+3.04	-7.89	-6.80	+87.05	+24.53	-87.20	56

Survey

crossline

upstream

leg	R	φ	ψ	δx	δy	δz	Station	X	Y	Z
~~57→56~~	~~15.00~~	~~188~~	~~+69~~	~~-0.75~~	~~-5.32~~	~~+14.00~~				
57→58	17.85	161	-70	+1.99	-5.77	-16.77	57	+87.80	+29.86	-101.20
58→59	14.25	146	-74	+2.20	-3.26	-13.70	58	+89.79	+24.08	-117.97
59→59	14.10	058	+8	+11.84	+7.40	+1.96	59	+91.98	+20.83	-131.67
60→60	13.70	083	+52	+8.37	+1.03	+10.80	60	+80.14	+13.43	-132.63
61→62	10.40	230	-52	-4.90	-4.12	-8.20	61	+71.77	+12.40	-144.43
63→62	16.40	053	+35	+10.73	+8.08	+9.41	62	+66.86	+8.28	-152.63
63→62	4.71	164	+12	+1.27	-4.43	+0.98	63	+56.14	+0.20	-162.03
65→64	3.41	053	-47	+1.86	+1.40	-2.49	64	+57.41	-4.23	-161.05
~~65~~							~~65~~	+55.55	-5.63	-158.56

- depth at (63) thus seems to be -544m, assuming last years lim. of surv. was at -382m.

-382
-162
-544

- the thing is not heading for FU56! (well not very much anyway)

(too deep for L. Victoria if surface figures are correct)

Last survey pt. in 1985 F20 ("F17") is at 263.86 / 93.08 / -381.84.

(535)

F20 The final conflict. 8/8/86

Book - Phil Duncan

Instruments - Martin May, Compass. 514447

Tape - Phil Rose. Clino 510270

(N) - on computer.

THE NUMBERS.

No	Compass	Clino	Tape	Passage width	Passage height	Station height	(at station)
0→1	172	-12	4/37	2	0/5	1/5	1
2→1	015	+42	1/32	—	—	—	2
3→2	055	+55	10/15				3
4→3	025	+65	11/42	RIFT.			4
5→4	269	+61	14/35				5
5→6	228	-14	9/42	1/5	4	3	6
7→6	355	+22	3/66	1/5	2	1/5	7
7→8	250	-2	8/70	2/5	2	1/5	8
9→8	090	+4	6/54	1	4/5	4	9
9→10	219	-34	4/32	1/6	6	3	10
11→10	075	+10	7/2	2	6	1/5	11
11→12	244	+2	8/96	0/5	5	—	12
13→12	076	-21	17/1	1/4	—	—	13
13→14	250	-1	27/6	2	INLET		14
15→14	045	+22	16/6	1/5	4	1	15
15→16	253	0	17	0/8	—	—	16
17→16	041	-1	7/54	1/5	5	1/5	17
17→18	254	-1	22/55	1	6	1/5	18
18→19	250	+60	4/38	1	1	0/5	19
20→19	073	-6	6/6	1	1	0/5	20
20→21 correction	239	-10	26/5	2	4	1/5	21
22→21	063	+4	10/35	1	2	0/5	22
22→23	254	+7	13/5				(23)
24→23	064	+6	15/75				

THE REST OF THE NUMBERS c/o Gerhard and his hp 15C = S36

Leg	East Δx	North Δy	Up Δz	Station	X	Y	Z
1>1	+0.59	-4.23	-0.91	1	+56.14	-9.86	-159.47
2>1	+0.25	+0.95	+0.88	2	+55.89	-10.81	-160.35
3>2	+4.77	+3.34	+8.31	3	+51.12	-14.15	-168.67
4>3	+2.04	+4.37	+10.35	4	+49.08	-18.52	-179.02
5>4	-6.96	-0.12	+12.55	5	+56.04	-18.40	-191.57
5>6	-6.79	-6.12	-2.28	6	+49.24	-24.52	-193.85
7>6	-0.30	+3.38	+1.37	7	+49.54	-27.90	-195.22
7>8	-8.17	-2.97	-0.30	8	+41.37	-30.87	-195.52
9>8	+6.52	0	+0.46	9	+34.85	-30.87	-195.98
9>10	-2.25	-2.78	-2.42	10	+32.59	-33.65	-198.39
11>10	+6.85	+1.84	+1.25	11	+25.74	-35.49	-199.64
11>12	-8.05	-3.93	+0.31	12	+17.69	-39.41	-199.33
13>12	+15.49	+3.86	-6.13	13	+2.20	-43.28	-193.20
13>14	-25.93	-9.44	-0.48	14	-23.73	-52.72	-193.68
15>14	+10.88	+10.88	+6.22	15	-34.61	-63.60	-199.90
15>16	-16.26	-4.97	0	16	-50.87	-68.57	-199.90
17>16	+4.95	+5.69	-0.13	17	-55.81	-74.26	-199.77
17>18	-21.67	-6.21	-0.39	18	-77.49	-80.47	-200.16
18>19	-2.06	-0.75	+3.79	19	-79.54	-81.22	-196.37
20>19	+6.28	+1.92	-0.69	20	-85.82	-83.14	-195.68
20>21	-22.37	-13.44	-4.60	21	-108.19	-96.58	-200.28
22>21	+9.20	+4.69	+0.72	22	-117.39	-101.27	-201.00
22>23	-12.88	-3.69	+1.65	23	-130.27	-104.96	-199.36

as from last year's Print cont'd from previous page

is this a backward leg 3!

← NB this must be a forward leg – have checked this (orally) with Phil & Phil

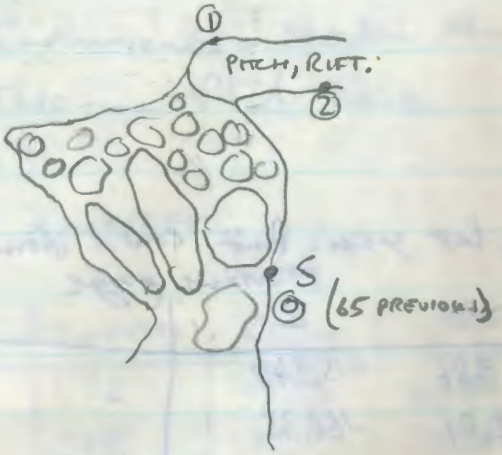
total depth ~584m

COMPUTED TOTAL DEPTH (SGR) = -581.2

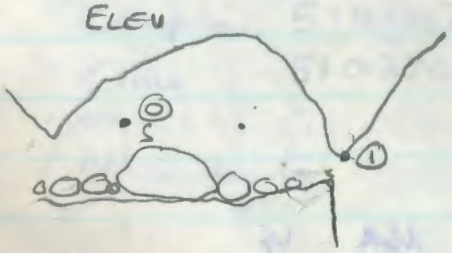
537

F20 DRAWINGS FROM LIMIT OF PREVIOUS SURVEY TO SUMP.

PLAN

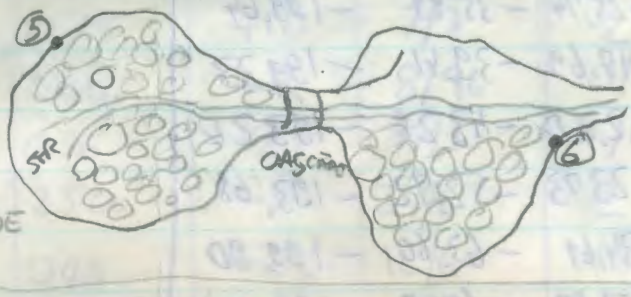


ELEV

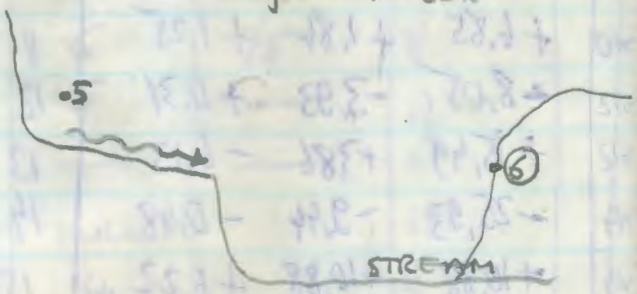


PLAN

PLAN (SPLIT AT 4)

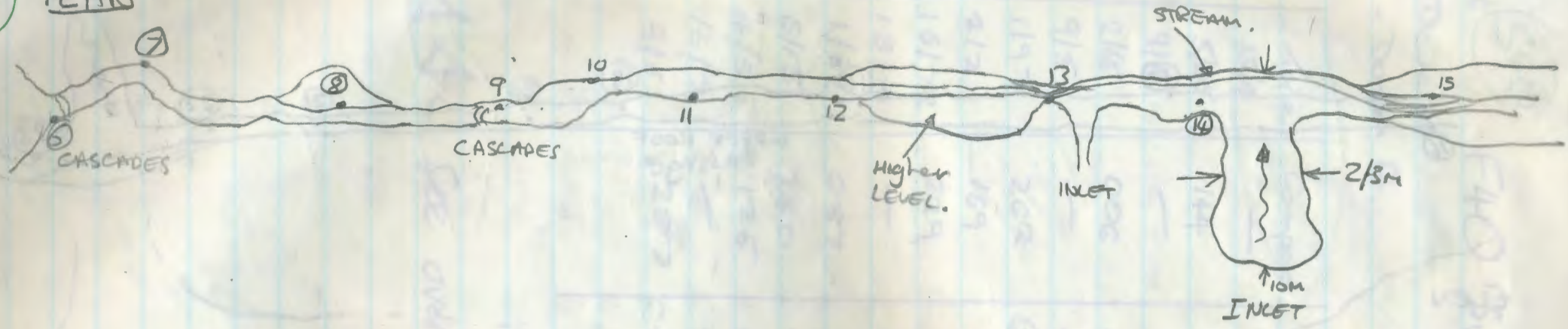


ELEV HIGH CHAMBER

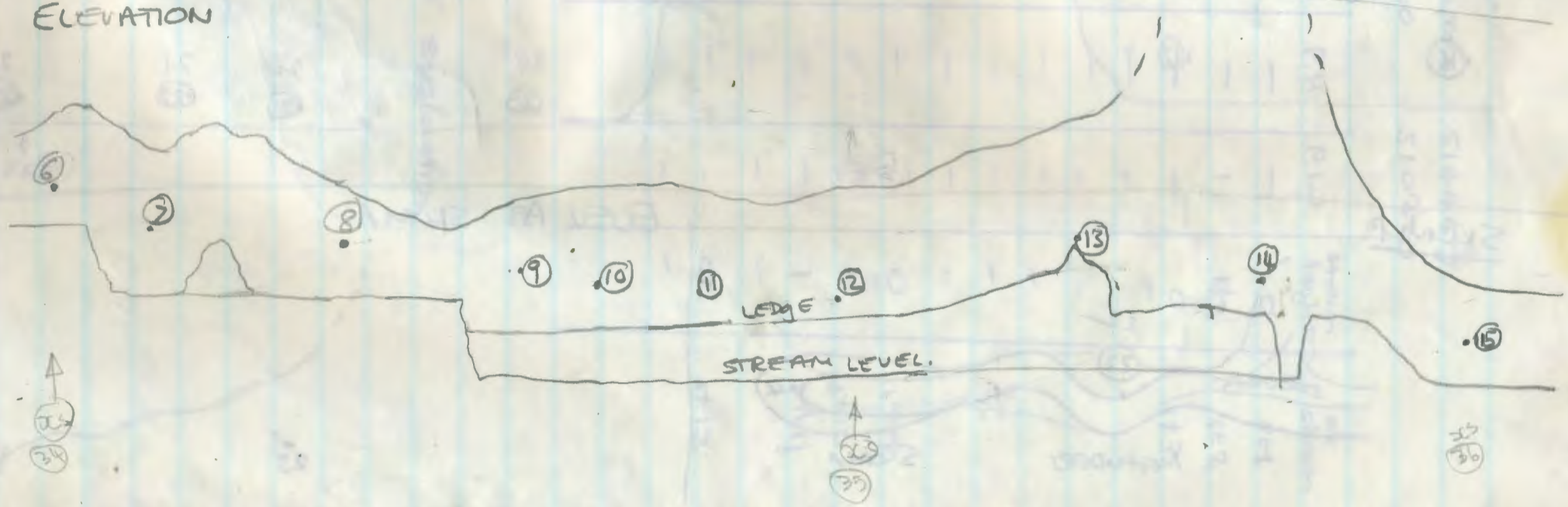


PHREATIC CANYON.

PLAN

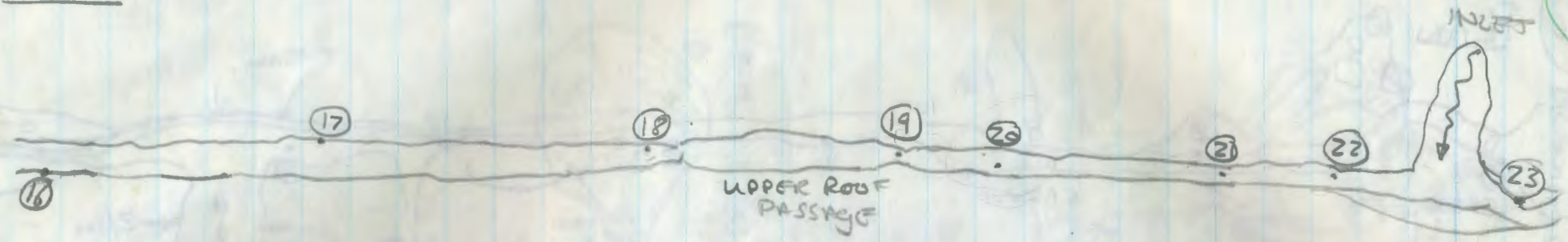


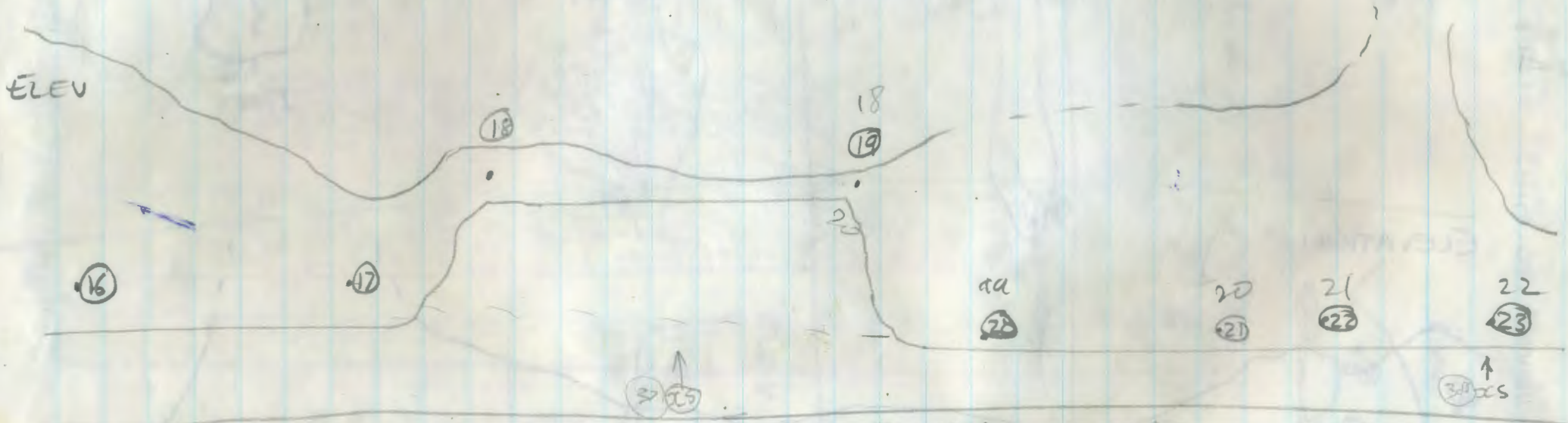
ELEVATION



F20 PHREATIC CANYON CONT'D

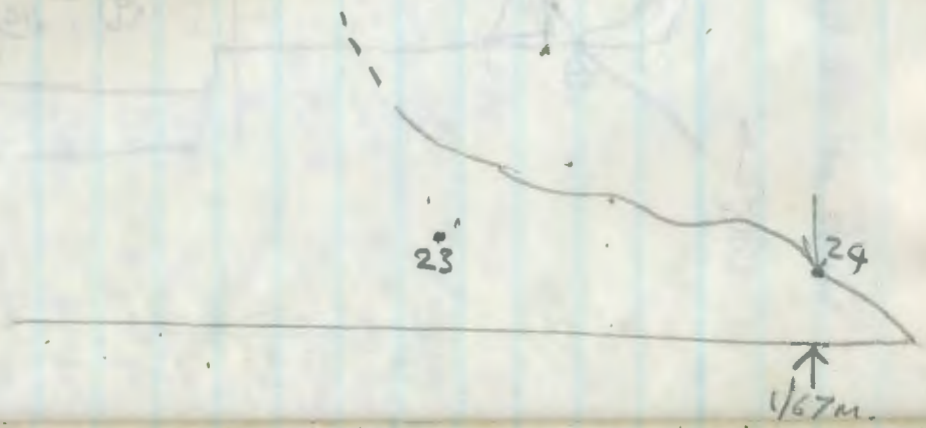
PLAN



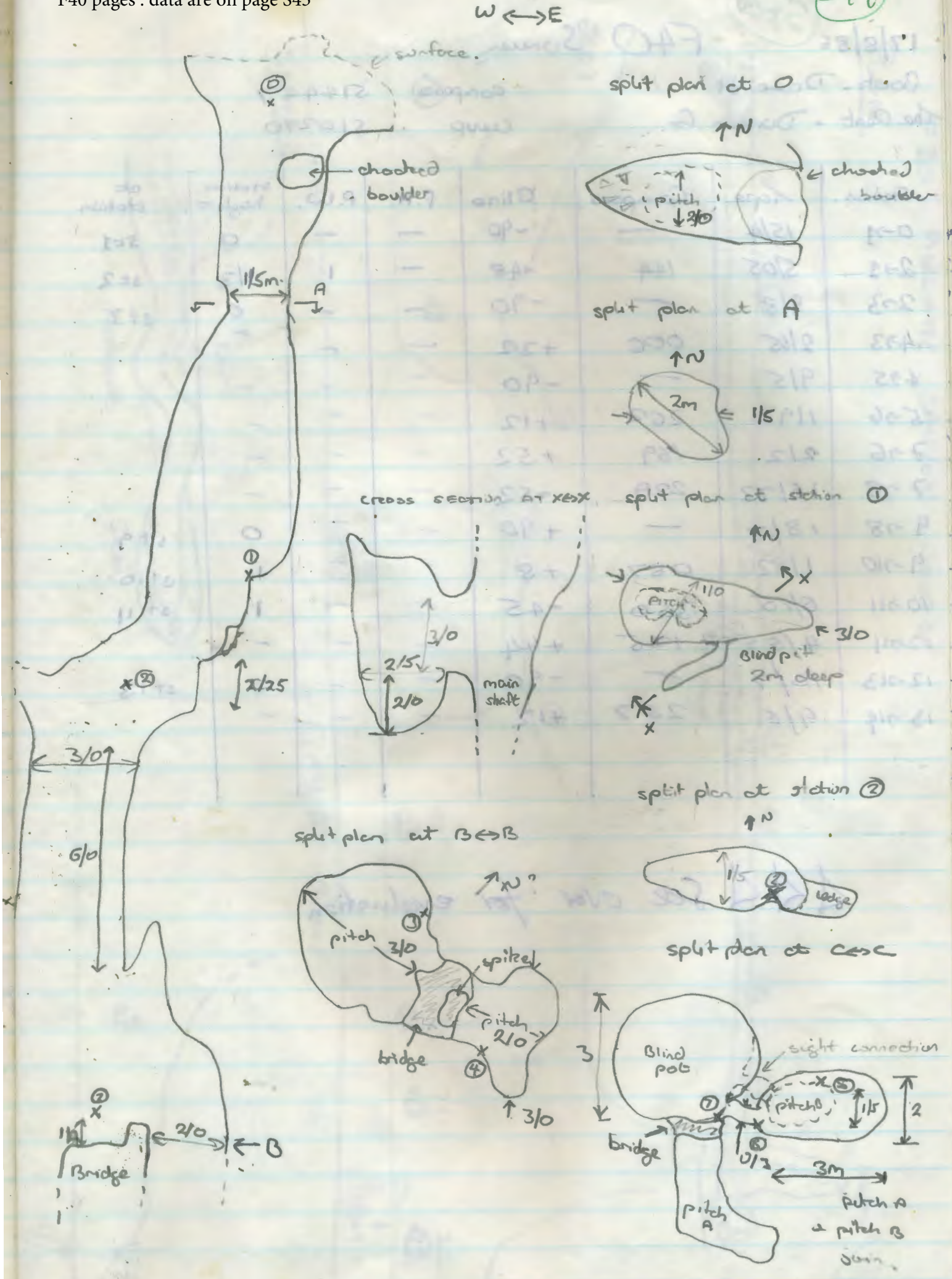


SUMP

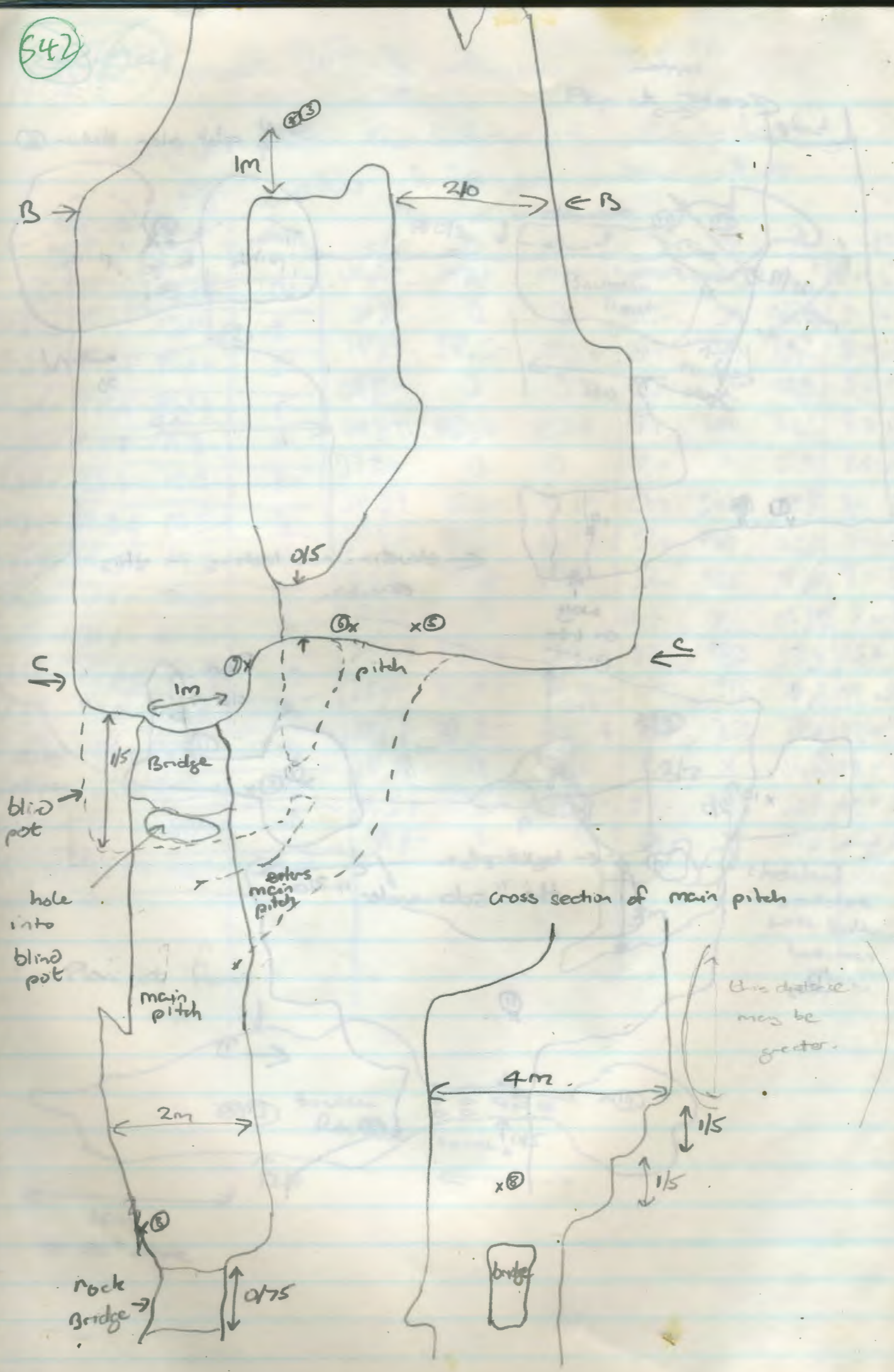
ELEV AT SUMP

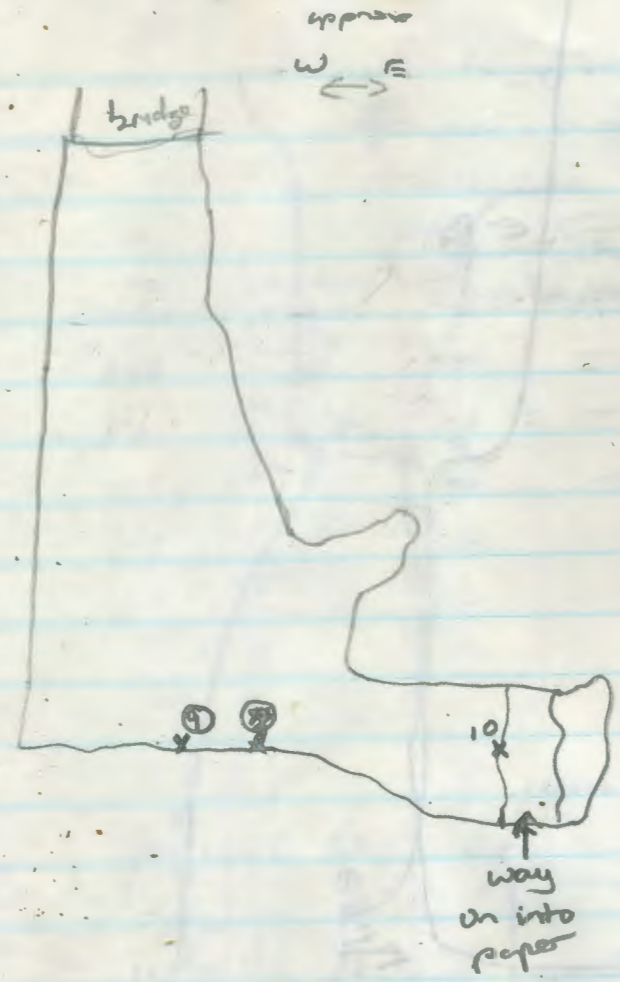


F40 pages : data are on page S45

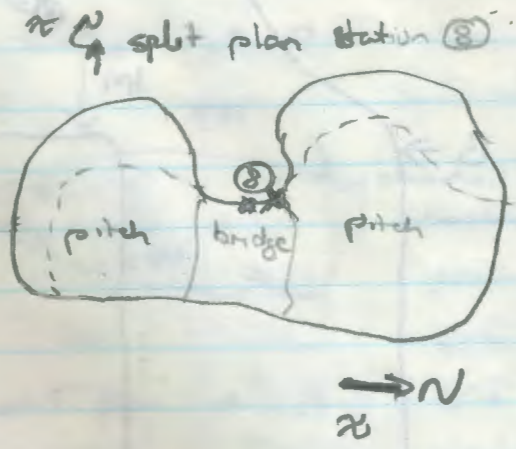


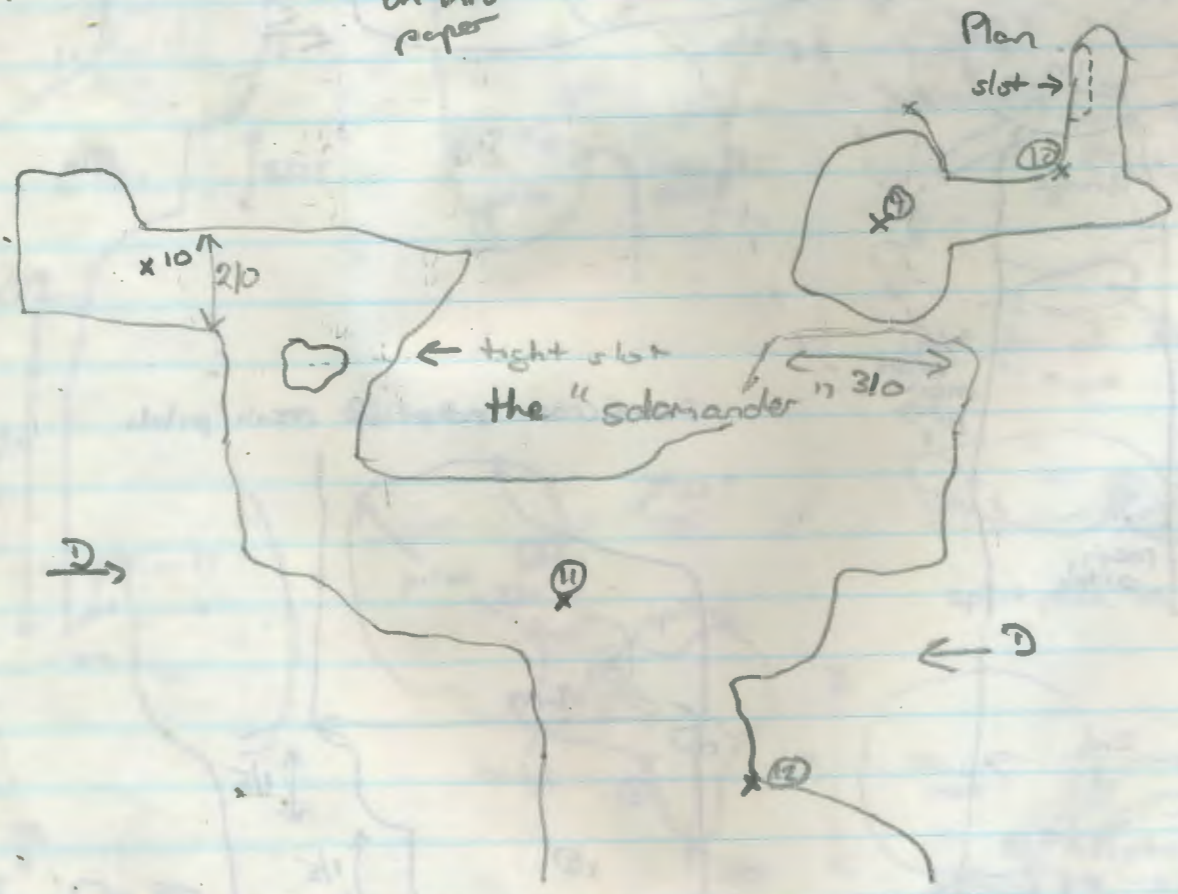
542


1m
2.0
B
B
0.5
C
C
1m
1.5
Bridge
blind pot
hole into blind pot
enters main pitch
pitch
main pitch
2m
rock Bridge
0.75
cross section of main pitch
4m
1.5
1.5
bridge
this distance may be greater.



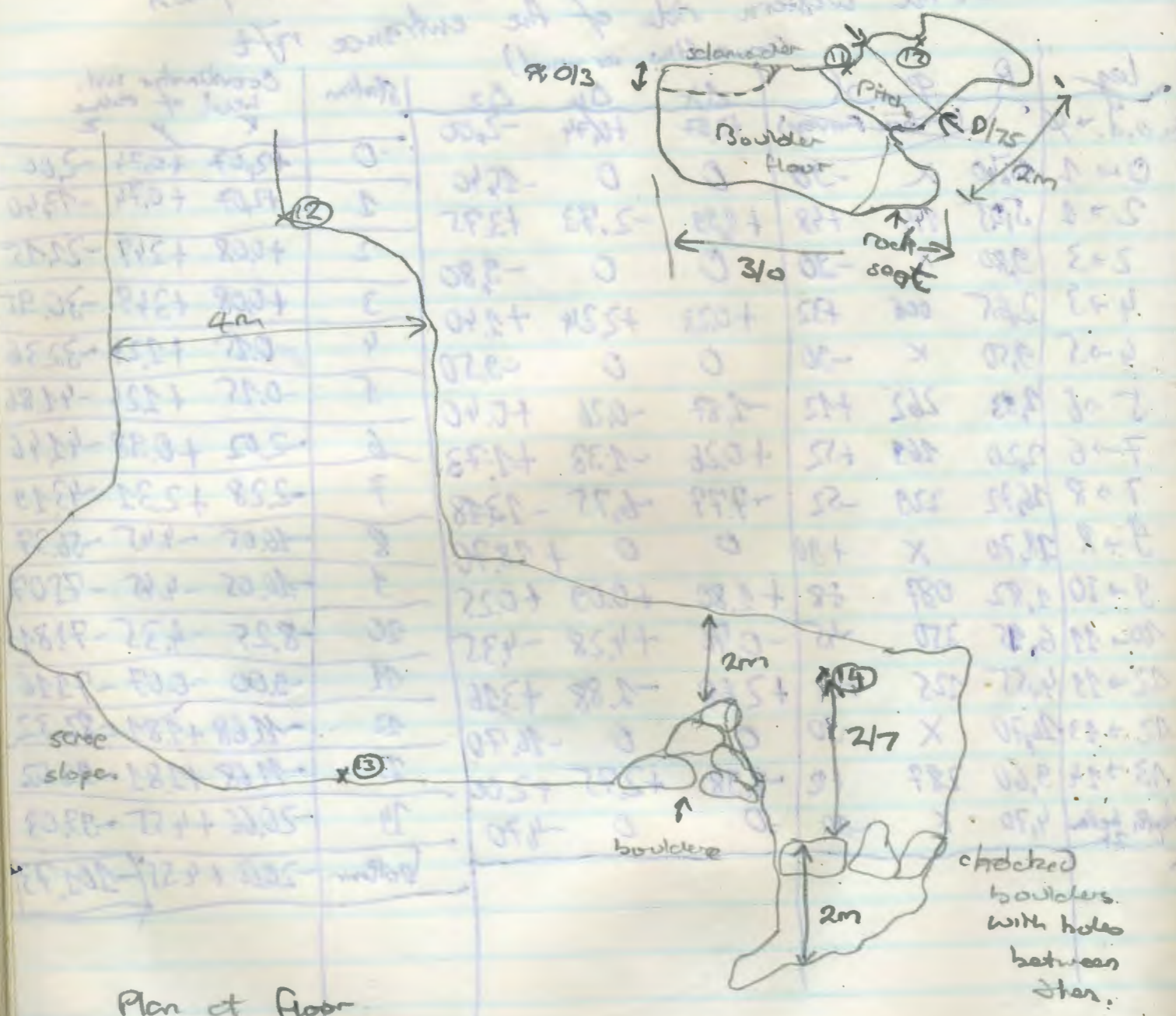
← elevations now looking in this direction



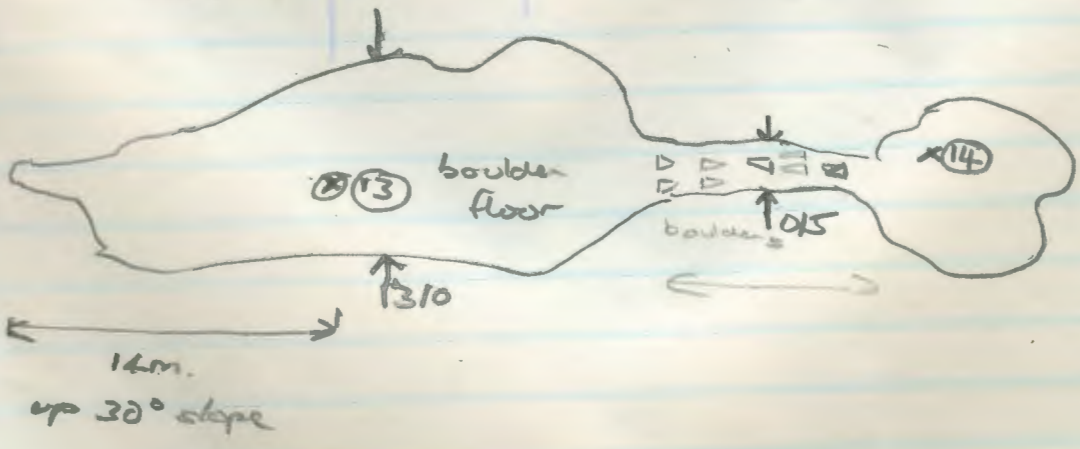


544

Plan at D=D



Plan at floor



17/8/86 evaluation of F40 survey (S.45) (GN)

'head of doline' is marked with little red splash on the western side of the entrance rift

(conventions as usual)

Leg	R	φ	ℓ	Δx	Δy	Δz
o.d. → Ø	(surface survey)			+2,07	+0,74	−2,00
0 → 1	15,40	X	−90	0	0	−15,40
2 → 1	5,05	144	+48	+1,99	−2,73	+3,75
2 → 3	9,80	X	−90	0	0	−9,80
4 → 3	2,65	006	+32	+0,23	+2,24	+1,40
4 → 5	9,50	X	−90	0	0	−9,50
5 → 6	1,93	262	+12	−1,87	−0,26	+0,40
7 → 6	2,20	169	+52	+0,26	−1,33	+1,73
7 → 8	16,72	229	−52	−7,77	−6,75	−13,18
9 → 8	18,70	X	+90	0	0	+18,70
9 → 10	1,82	087	+8	+1,80	+0,09	+0,25
10 → 11	6,45	350	−45	−0,76	+4,28	−4,35
12 → 11	4,55	125	+44	+2,68	−1,88	+3,16
12 → 13	16,70	X	−90	0	0	−16,70
13 → 14	9,60	287	+12	−8,98	+2,75	+2,00
depth below 14	4,70	X	−90	0	0	−4,70

Station	Coordinates rel. head of doline x	y	z
0	+2,07	+0,74	−2,00
1	+2,07	+0,74	−17,40
2	+0,08	+3,47	−21,15
3	+0,08	+3,47	−30,95
4	−0,15	+1,24	−32,36
5	−0,15	+1,24	−41,86
6	−2,02	+0,98	−41,46
7	−2,28	+2,31	−43,19
8	−10,05	−4,45	−56,37
9	−10,05	−4,45	−75,07
10	−8,25	−4,35	−79,81
11	−9,00	−0,07	−79,16
12	−11,68	+1,81	−82,32
13	−11,68	+1,81	−99,02
14	−20,66	+4,55	−97,03
bottom	−20,66	+4,55	−101,73

Trimethoprim / no sulphur in it

B1

OXFORD UNIVERSITY EXPEDITIONS

IMPORTANT INSTRUCTIONS

DIARRHOEA. Much of the diarrhoea encountered in foreign parts is due to change of diet. Some is due to infection. Prevention is important and half the battle is won by taking simple precautions. Travellers often show a remarkable lack of common sense. Spanish pears may be luscious, but if a Spaniard eats 8 large Spanish pears he will get diarrhoea, so eat fruit in moderation. If you do eat fresh vegetables or fruit make sure that these are washed in water purified with Sterotabs (or Puritabs). Salads that include green lettuce are particularly hazardous. Vegetables are often manured with human dung, and those with a large surface (such as lettuce) are particularly dangerous. You have a little free acid in your stomach, it will cope with a few nasty germs, but not with a lot. Cucumber and tomato salads are relatively safe. If you get diarrhoea, take codeine phosphate, two 30 mg tablets every 4 hours until the diarrhoea has stopped, or take Lomotil, 4 tablets at once, and then 2 tablets four hourly until the diarrhoea has stopped. You may have been given Imodium (loperamide): take two capsules at once, and then one every time you have a motion until you seize up. If none of these stop the diarrhoea and you are feeling ill, and particularly if you are passing stools with blood and mucus, take Septrin or Bactrim (cotrimoxazole) two tablets twice a day for five days. You may have been given trimethoprim instead of cotrimoxazole. You should take 200 mg twice a day. You may have been given Amoxil (amoxycillin) 250 mg capsules. Take two, four times a day for five days. If this does not clear the diarrhoea you must seek medical help. Septrin or Bactrim should not be taken by people that are hypersensitive to sulphonamide. Amoxil should not be taken by people who are hypersensitive to penicillin. (Trimethoprim)

OTHER INFECTIONS. Do not use antimicrobials recklessly. If you have boils and a raised temperature, or infected wounds, or you think you have pneumonia or bronchitis it is reasonable to take a drug. For boils and infected wounds use first clindamycin. The capsules are 150 mg. Take one capsule four times a day. If you are no better at the end of 72 hours, take Septrin (or Bactrim) two tablets (or capsules) twice a day for five days. (Remember that the latter must not be given to people who are hypersensitive to sulpha drugs). Do not give both drugs at once. If you are in doubt you must seek medical advice.

Some of you may be given flucloxacillin (Floxapen). This is also useful for infected wounds and boils. Take one capsule (250 mg) four times a day. If the infection is not better after three days go on to Septrin or Bactrim as above.

HEAT EXHAUSTION AND SUNSTROKE. Keep your water and salt requirements in balance (see other sheet).

ANTIHISTAMINES. These drugs suppress allergic reactions of various sorts and are useful in suppressing nettle-rash, itchy skin conditions, hay fever, and to some extent mild asthmatic wheeze. Remember that they all, but to a varying extent, tend to make you sleepy. Do not drive if you are at all drowsy. You may have two drugs, Pro-Actadil and Phenergan. Each tablet of the former is of 10 mg, the latter 10 mg or 25 mg. Some may be given Piriton.

PRO-ACTADIL is suitable for use in the day time. One once a day may be adequate but one may be taken at night and morning if necessary.

PHENERGAN the most powerful antihistamine, is likely to make you sleepy, so take preferably at night. Do not take if you are driving. The 25 mg tablet is very potent.

PIRITON 4 mg tablets. A useful drug for moderate allergy. Take one every four to six hours.

ECZEMA. With irritating skin conditions, use Betnovate cream locally or Vioform and hydrocortisone cream. Both contain steroid and an antiseptic.

DISINFECTANTS. For cuts and scratches use tincture of iodine unless you are hypersensitive to iodine. Bigger cuts may be washed out with Savlon. A sachet of Savlon concentrate will make a pint of disinfectant ready for use.

MOTION SICKNESS. Marzine tablets, 1 every two to four hours, or Dramamine tablets, 1 every two to four hours, help most people.

SORE THROATS. Most are not due to bacteria and a soothing gargle with some soluble Aspirin (Disprin) usually takes the worst agony away. If the throat is dark red and very sore it is possible you may have a bacterial infection and if you have a fever, take clindamycin (150 mg capsule) or erythromycin 1 ~~four~~ three times a day for five days.

SLEEPING TABLETS. You have been given Mogadon (nitrazepan) 5 mg or Rohypnol (flunitrazepam) 1 mg. One will send the average adult off to sleep. If one does not work you can safely take two or even three.

N.B. Keep these tablets safely and ensure that they do not fall into the hands of children or irresponsible people.

HEADACHES AND OTHER PAINS AND ACHES. You have been given paracetamol tablets. Take one or two tablets every four hours.

As an alternative use soluble aspirin, 2 tablets, which may be taken every four hours. Cut the dose if you get ringing in the ears.

For severe pain: take Feldene (piroxicam) one a day.

INDIGESTION. Use Gaviscon tablets, chew or suck one or two as often as necessary.

SUNBURN. Avoid going into blazing sunshine or working by the sea unless you have used Uvistat ointment on the exposed part of your body, and pomade (Lipscreen) on your lips.

MOSQUITOES AND FLIES. If you are in an area where there are tsetse flies, black flies (simulium damnosum), or a lot of anopheles or aedes, you must use a mosquito net. Both in the Tropics and Arctic and Antarctic mosquitoes can be a nuisance. They will descend in their millions from nowhere and you should have a good mosquito repellent. The best is a mixture of 2-ethyl-1-3-hexandiol (94 G/l), 56.4 ml and N, N-diethyl-m-tolumide (99.7 G/l) 6.3 ml and industrial methylated spirit 66 O.P. to 1 litres. It can be bought in America and Sweden. The Swedish variety is known as Djungel Olja 3 x 6. Do not put it in the eyes or in the mouth.

In some parts of the Arctic tiny flies can be a great nuisance, crawling into the ears, eyes, mouth and nose. Insect repellent does not work on them, but the local population usually will be able to advise you. In Greenland you should go to the Royal Greenland Trading Company (KGH) and buy a very fine mesh shopping bag, put it over your head and wear mittens. This works. Do not put a polythene bag over your head: you stand a reasonable chance of asphyxiating very rapidly.

B3

TYPHUS. If you are going to areas where you are likely to encounter rickettsial disease (epidemic typhus, tick typhus, scrub typhus, Rocky Mountain spotted fever) you may be given a supply of tetracycline. If you get a fever (particularly following a tick bite) take two, 4 times a day for a week, and then one, 4 times a day for a further week.

INFECTED OR RED EYES are usually due to a conjunctivitis caused by a bacterium. Optrex is not very useful. Use Polyfax or tetracycline eye ointment 3 or 4 times a day. Put a little snake of cream on the turned down lower eyelid. Put the upper eyelid over it and massage gently. This should clear the infection in the course of a couple of days.

ATHLETES FOOT. This can be particularly tiresome if you have sweaty feet. Wash your feet thoroughly and dust the feet and socks with Mycil or Daktarin or some similar antifungal dusting powder.

FLEAS AND LICE. Dust your clothes and sleeping bag with flea powder (kills pests on pets and undergraduates!). Go to the nearest pet shop and ask for dog flea powder. Hunt for fleas and lice on you. If badly bitten use Betnovate or Synalar cream or Eurax cream.

TAPEWORMS AND ROUNDWORMS. For tapeworm take Yomesan (niclomaside 500 mg) four tablets, chew well and wash down with water. A cascara tablet should be taken as a purgative. For roundworm take Vermox (mebendazole 100 mg) one night and morning for three days.

AMOEBIASIS. If you think you have got amoebiasis (bloody diarrhoea) take tinidazole 2 gms (four tablets) every morning for three days and then Furamide, one tablet (of 500 mgs) three times a day for five days, or Flagyl (metronidazole) 800 mg three times a day for four days instead of tinidazole. AVOID MILK AND MILK PRODUCTS FOR SIX WEEKS. No alcohol whilst you are taking tinidazole or metronidaz

HIGH ALTITUDE. Note that above 8-10,000 feet the contents of full tubes of ointment will shoot out under pressure. Unscrew cap with care. You may be given Diamox 500 mg twice a day to counteract mountain sickness.

GENERAL NOTE.

It is important that drugs not used are handed in to me for use of future expeditions, or burnt. They could be dangerous particularly for children and in foreign parts any expedition refuse is often avidly collected by the locals. If you have a deserving local medical centre, by all means give remaining drugs to them. We want the drug cases back.

Bent Juel-Jensen.
University of Oxford.
Trinity 1986.

remoket* stuff to make you shit!!

B&

Medical Kit

	Top Camp	Base Camp	Spare Box (BASE)
Uvistat 10	2	3	—
Uvistat 4		1	—
Uvistat lip	6	6	13
Dioralyte	6	5	—
Ionsotil	100	200	—
Mogadon	—	—	all
Betnovate	—	—	all
Phenergan	—	—	all
Pro-actidil	—	—	all
Floxapen	—	—	all
Septrin	—	—	all
Gaviscon	3	2	—
Amoxil	1	—	1
Bactrim	—	—	all
Mycil	—	1	—
Solpin	7	5	rest
Dress pack	2	1	6
Bactigras	4	3	—
Senokot	1	1	—
Trimethopin	—	—	2
Dalin	—	—	4
Immodium	1	1	—
Dakatrin	—	—	1
Achromycin	1	1	—
Prickly Heat Pr	1	1	—
Sawlon	10	10	rest
Insect Spray can	—	—	2
Insect repel gel	1	1	—
Swabs	—	—	2
Panton	20	—	—
Erythromycin	30	—	30
Feldene	20 (Dangwoth).	—	—
Codeine Phosphate	1 bottle		

These notes are for your help in the event of a major accident such as a flood

[illegible] cave collapse, they are not a substitute for qualified aid. They are designed to help you bring a victim alive to the surface.

DO THE FOLLOWING IN SEQUENCE.

1 DON'T PANIC. Be methodical. Don't be rushed into hasty action. Keep your reason.

2 MAKE PREPARATIONS TO TAKE THE VICTIM OUT. Unless the injury is obviously trivial, all accident victims should be brought to the surface as soon as possible. Beware those who have been hit on the head but look "all right now". They could be bleeding inside the skull and be unconscious and dying in a couple of hours. GET THEM OUT.

3 CONSCIOUSNESS. Is the victim able to talk? If so, ask them if they can feel and move their limbs. IF NOT, ENSURE AN AIRWAY.

4 AIRWAY. PULL THE JAW FORWARDS, AND KEEP IT THERE. This stops the tongue lolling back [illegible] the windpipe. The ideal position is "sniffing the spring air" - head forwards and chin up. An unconscious patient will die rapidly without an airway. If they puke or look as if they might, roll them on their side and let the vomit come out - BUT SEE "BACK".

5 BLEEDING. If they are obviously bleeding, PRESS ON IT with your hand or a pad, for five [illegible] minutes without peeping. If it doesn't stop, keep pressing.

6 PULSE. Compare the victim's pulse with your own. SHOCK - severe blood loss - the victim has a fast, thready, weak pulse; they are cold, clammy and sweaty. If you are in no doubt that the victim looks like this, they need an intravenous line (see below). If you are in any doubt, don't; caves are mucky places and you'll cause more trouble than you'll cure. If you have a line, give all the fluid you've got. GET THEM OUT.

7 BACK. DON'T MOVE THE VICTIM UNTIL YOU'VE FELT THEIR BACK, OR IF THEY ARE PARALYSED OR LACK SENSATION ANYWHERE. Feel all the way down the spine. You will feel a row of regular bones; if there is a gap or step, or the victim has pain at one spot on pressing, they have a back injury. If you're in doubt, treat as one.

LOG ROLL. With three people, move the victim as a unit without twisting or bending, like a log. Don't forget the head; don't turn, drop or bend it. In this fashion, get the victim out of harm's way on to a firm, flat, horizontal surface. Don't move them again until you've got them on to a Neil Robertson stretcher.

8 CHEST. If the victim has difficulty breathing, or pain on breathing, ENSURE AN AIRWAY and look at the chest (open the clothing; look at both sides). If there is a wound in the chest, PUT A PAD ON IT to stop air leaking in and letting the lungs down. Look at the movements; if one bit goes in while all the rest comes out, and vice versa, PUT A BIG PAD ON THAT BIT to hold it in - that is a "flail segment", a piece of chest wall which has come loose and is moving independently of the rest.

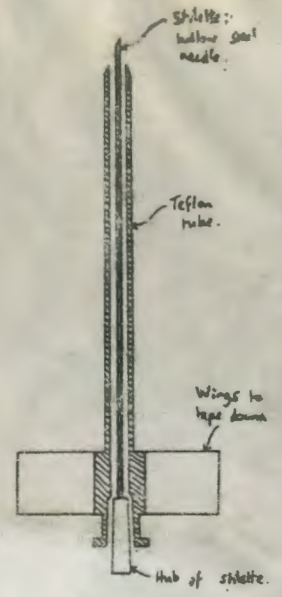
9 DEFORMITY. If either leg is bent out of shape, try and straighten it by pulling down on the foot. Support arms by putting them inside the clothing, or applying a sling if you can. Look for wounds on the limbs; these might connect with the fracture, so it is important to keep crap out of them. Put a pad on them, with pressure if they're bleeding.

Splint broken limbs; ideally put the victim on a stretcher.

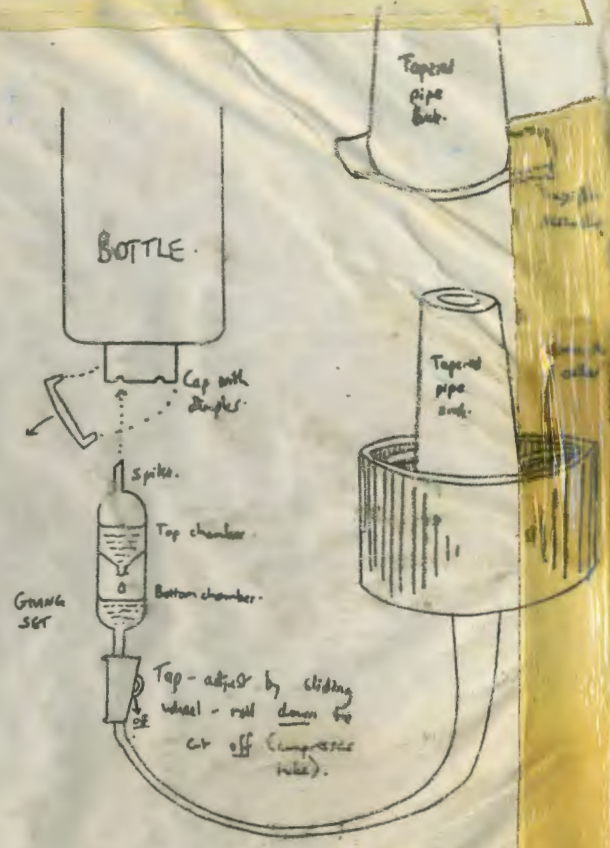
10 HEAT. EXPOSURE IS A RISK especially for immobile victims. Change wet gear for dry if someone else is wearing dryer gear. Cover with a space blanket. Put into an Eskimo or other sleeping bag if you've got one. Give sugary food only if the victim is fully conscious - they might puke and block their AIRWAY. GET THEM OUT.

On the way out - keep talking to them. Keep checking the pulse - if they weren't shocked before, they might become so.

ATTACHING LINES.



VENFLON (Medicut is similar, without the wings)



1 Pull the protective cap off the bottom of the bottle; stick the spike at the top of the giving set through one of the dimples in the bottle.

2 Squeeze the bottom bulb of the giving set a few times to get fluid through, then open the tap and let it run down the tube. If you get air bubbles, hold the pipe vertically and flick it or tap it to get them to the end.

3 Get someone to squeeze the victim's arm to bring the veins up; tap or flick them if they're reluctant. The biggest ones are in the crook of the elbow but watch - the artery lurks underneath here. Check that what you're going for is a vein and not an artery: if you feel it pulsing when you touch it, it's an artery. Occasionally you find an artery near the surface.

4 Put the skin slightly on the stretch with one hand; with the other push the Venflon or Medicut into the vein, facing up the arm. When blood comes back into the stilette hub, stop and push the tube up round the stilette into the vein (holding the stilette still).

5 Release the arm from your friend's grip. Take the stilette out and connect up the fluid - the tube has a cap on the end which you take off, then push the connector on to the end of the Venflon and twist it to lock it.

6 Tape the Venflon and the tube down to the arm.