

MATIENZO CAVES PROJECT

LOGBOOK

Year: 1978

Season: summer

Logbook pages scanned to jpg then combined into a pdf file using <http://smallpdf.com/>

Juan Corrin, January 2015

And in the beginning there was darkness:
so the MUSS made lamps of metal and filled them with
rocks and water, called them carbide lamps
and there was LIGHT.

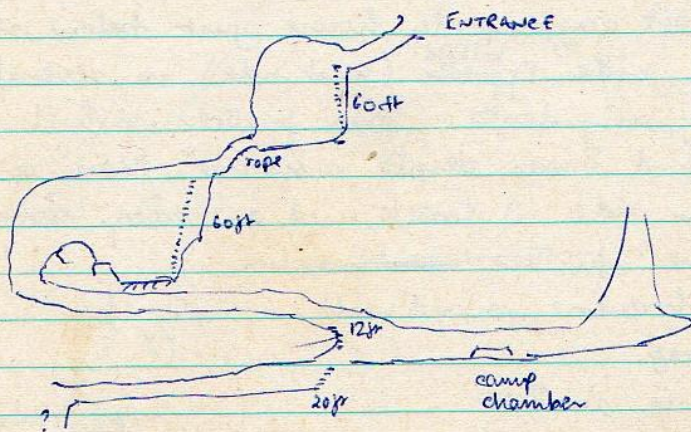
Natienzo 1978

The hosts of MUSS descended upon Natienzo and by
11th July there were Pete Smith, Nigel Dibben, Juan & Penny Corrin,
Dave Howard.

12 July ~~Torca Laredo~~ cloudy. SOLVIEJO (SUVIEJO IN CUADRAVOS 9-10)

Nigel + Dave checked out Chumo where water pipe had been
broken by winter storms. Big repair job needed; reported back
to plumber's Bar. All then went to Torca Laredo, Pete & Juan
surveying in from entrance chamber to far end of camp chamber
(Sala de Esperanza). Dave & Nigel looked in side passages and
onwards to top of pitch (?60ft) with water at bottom. [*running]

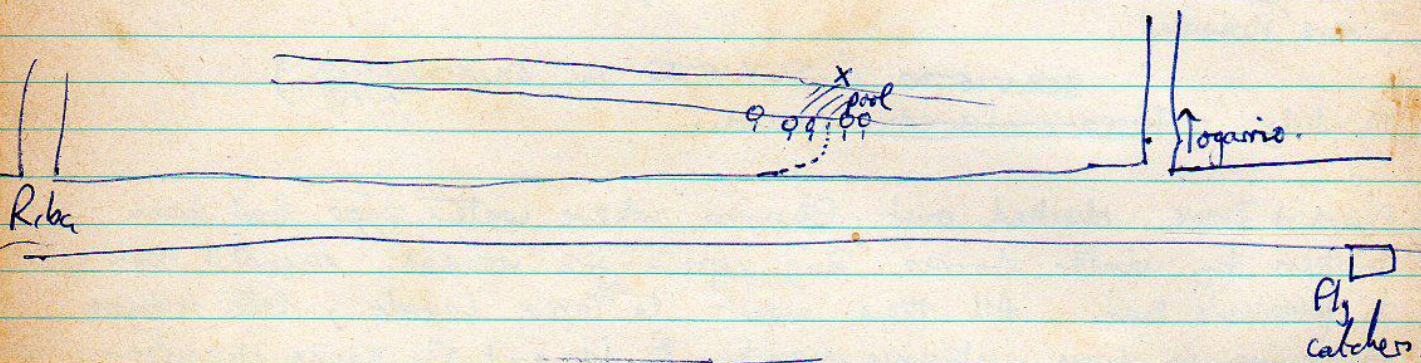
Sketch



Tackle so far is 3 ladders at entrance, rope on slippery climb, 3 (possibly 2)
ladders on pitch down greasy slope, short ladder or ropes into camp chamber
and same again out of camp chamber.

13th July. Sun!

Pete Queen Penny Cave-Bear hunting around Ogario. The cave of 3 swobles was pointed out to be miles up the hill so was not visited. Pete entered a phreatic tube against the cliff behind Ogario going for 60m bare foot until a streamway was met. Toiled up the hill to a 350m shaft in bushes. Large resurgence for whole of this side is possibly in De river Ason. Swam ~~across~~ across river to entrance. Locals have been in to a sandy "playa". Good diving site? 5 bears visited.



13 July

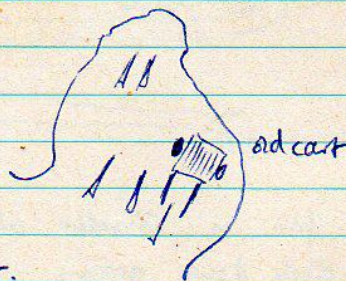
Dave and Nigel went to look for Simas del Picon ~~at~~ up Riobueto valley. (Took car up to house just below steep zigzag bend.) Looked on left-hand side of ~~valley~~ ^{valleys} (west side) in several shallow holes but none went any depth. Some further up hill were covered with sticks. Failed to find Simas despite "assistance" from a couple of locals. Went to cave on other side of track; used as barn. Remnant cave with stal etc. Chamber above further ~~section~~ section can be reached by traverse round wall

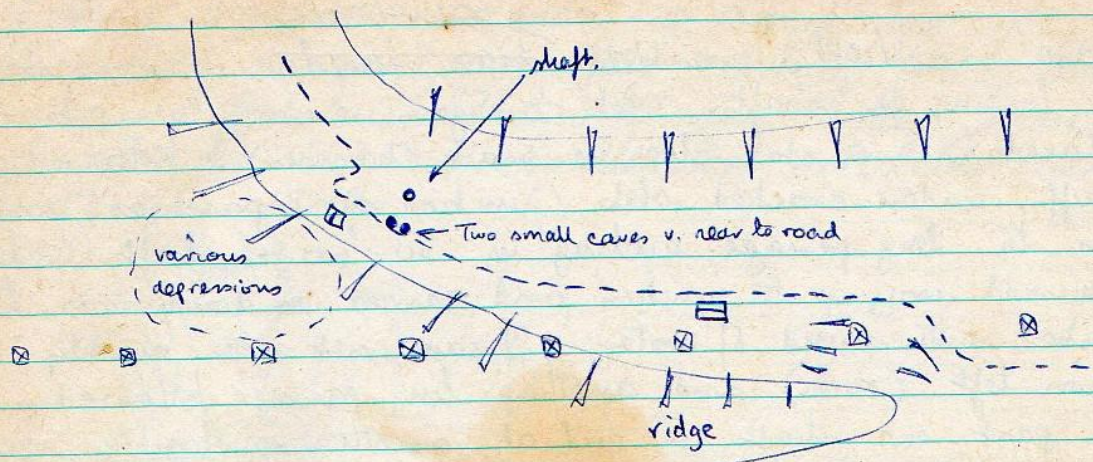
No more than 10m long.

Nearby, down valley is another phreatic tube (with mushrooms in) going in 8m on 49°.

Went up to shaft dropping 22m into inlet.

At bottom, rubble cone drops into large horizontal passage filled with stal etc. To left, back towards valley, cave ends in stal choke, probably close to caves by road. To right, into Monte Eraso, cave

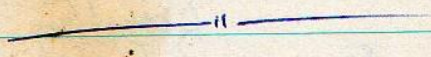
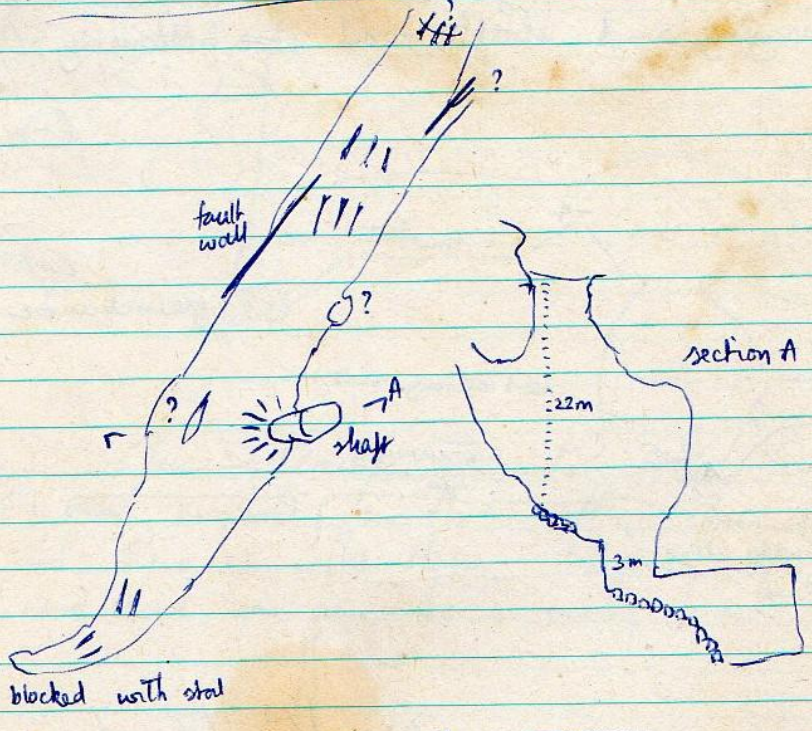




- Farms/Cases
- - - track
- ⊗ Pylons

continues

Sound of water at end (so far).

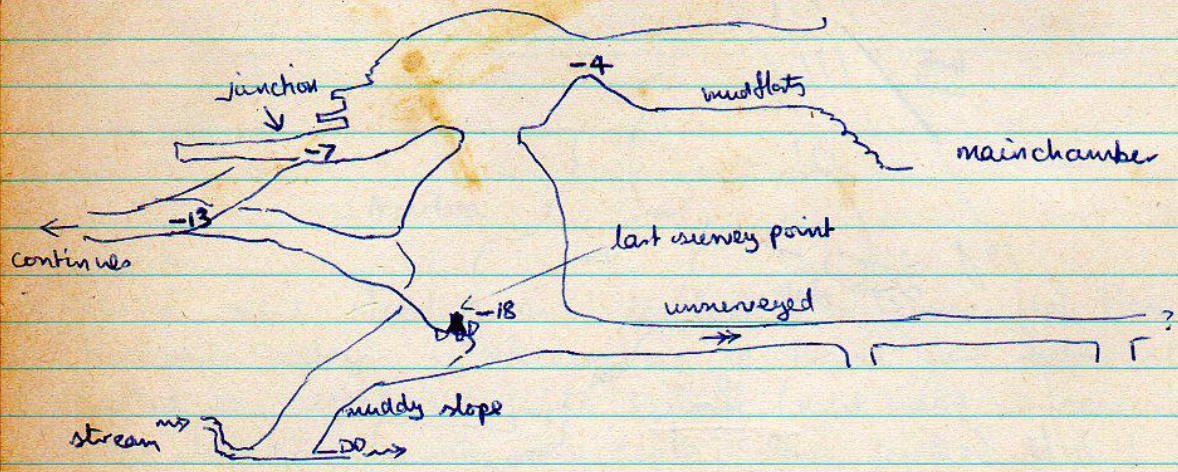


14 July Sun ☀

SOLVIEJO

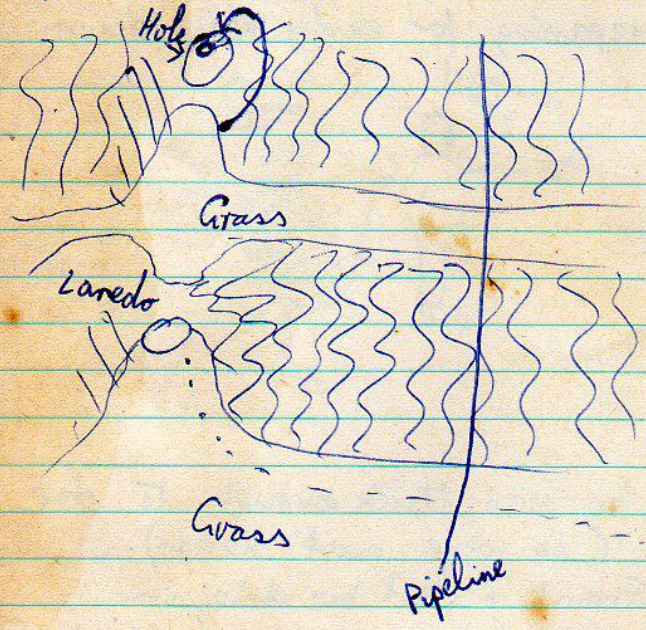
Pete Dave & Nigel went to ~~fora~~ ~~laredo~~. Dave stayed on surface looking for shafts. Pete & Nigel went into upper series of laredo (up stal slope in main chamber). Followed part big stuff, under cracked slab (junction of 3 passages) and downwards to long passage ending in 50-60 ft shaft (undrivable). On return missed way up to junction and carried on downwards to large chamber with sound of water. Stream met after muddy climb down left (North) and another long passage followed southwards part one shaft to end at another. Possible near avenus at campsite. Surveyed out 630m. Sections near water all need surveying and shafts need ~~be~~ bottoming. (3x 50ft+).

(-4 depth below entrance)

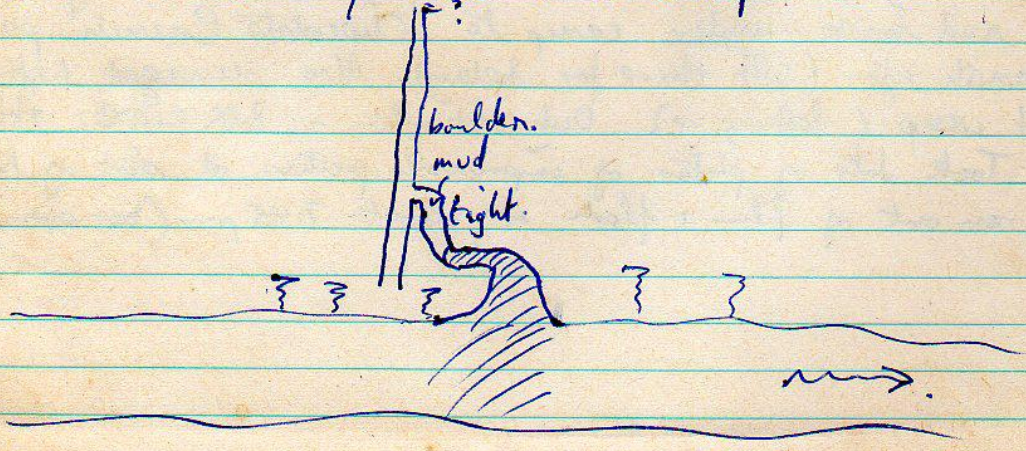


Draughting hole dug up above
 Sel de Sulo.
 Still going.

Followed pipeline near Laredo up through two sets of undergrowth. Pipe eventually disappeared into field. Returned ~~to~~ to field above Laredo and found shakehole with open shaft. Stones fell about 10 ft and rolled down 20-30 ft boulder slope. Probably joins into main chamber in Laredo.



1512 July Juan Perry Tony to Sel de Suto dig. Needs a bit more excavating in the rift. Then went to "resurgencia" between Ogarcia and Riva in the Ason. Spanish description - swim into the cave and you come to a sandy beach. Actuality: -



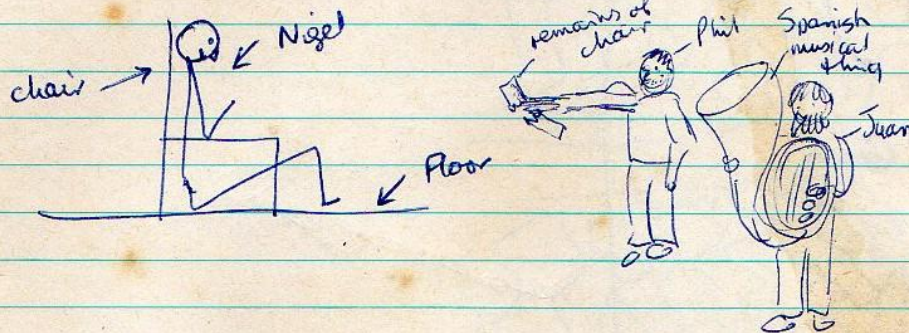
Black now finished - the draughting shaft near the pretties is 30' deep into chamber 20' x 15' with small stream disappearing into 2" high gravel, various small passages leading off from ledge

half way down ladder, no chains brought. Completed photographs including
pics of peculiar scratch marks on walls of main passage. Left David's water
bottle behind + was made to go and get it (areprimat?) Rather disappointing
after waiting 11 months to
revisit.

15 July Mist

Pete, Nigel, Dave to cave in Cubija. Bottomed out just
beyond previous "limit of exploration" (see 13 July). Surveyed
out, 300+ metres. 50+ deep.

Evening spent in Los Nieves preparing for early start down
Laredo.



16 July Mist.

Sat in bar deciding whether fog was thick enough to stop
us going to Laredo. It was (so were most heads).
Nigel, Juan, Penny, Dave H, David, Tony, Frank + Phil to dig in
Sel de Suta. After several hours (1½) effort accompanied
by guitar playing by Juan returned to bar + food, leaving
a large hole in the stream, but not large enough.

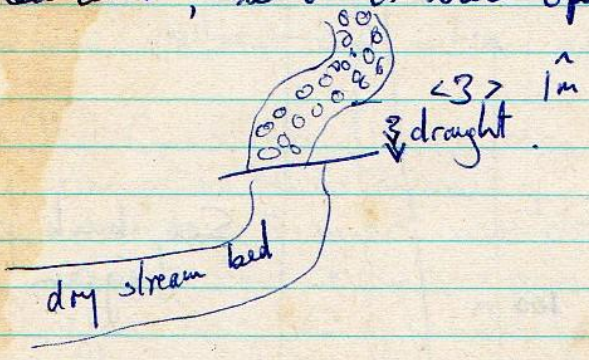
17 July Mist

Three working parties in ~~Laredo~~ ^{SOLVIEJO}. Nigel + Pete surveyed to
'bottom' and back under camp to 'Chocolate Crunch' passage
and Spanish rift (both there for belay). Also surveyed left hand
series at camp (locking in). Out midnight - BAR CLOSED. 2km surveyed
in total. Took lots of photos of impressive pretties at start of high level
series, ran out of film + flash at about 7.45 pm (bar open)

Quote: Nigel (lifeline) to Dave (climbing): "Is that you?"
Dave (after prolonged thought): "Yes it is"
(while enveloped in coils of muddy rope)

Rain
18 July WATER-TESTING DAY

Pete & Nigel to sump in Reinada to collect water sample (really just to look at pretties). In/out 3 1/2 hours. Rained. Collected water sample from Cercaviezo while Juan went to BAR. Then went to Secadura for another sample + to place ~~water~~ detector. Spent rest of day at Fresno looking for draughting holes, found only one ^{in bedding plane} (weak draught) where largish? stream must sink in bad weather. Juan explored it for <100 feet until tea time, so it is still open + going



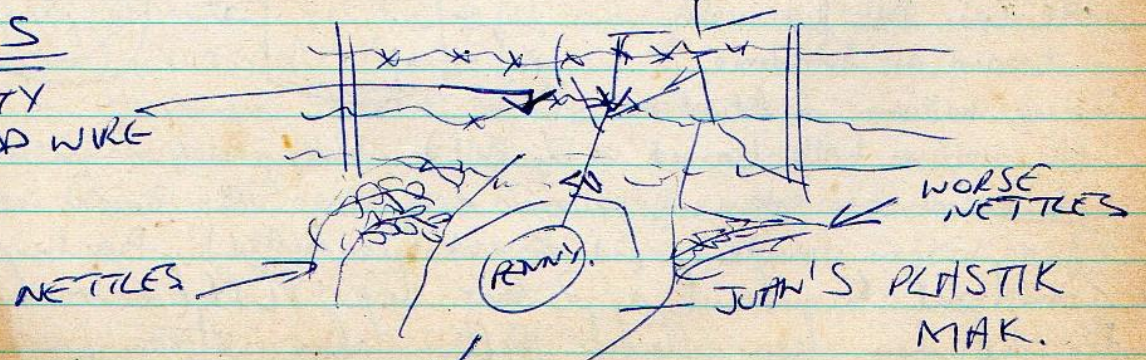
good fossil limpets?
in rocks at entrance.

Torca Laredo = Solviejo = Old sun. X SEE QUADRANS 9-10 ITS SOLVIEJO

Fresno fences + nettle beds! — (C) ← GENTLEMAN?

APPARATUS

RUSTY BARBED WIRE



see 3A for clarification

OVER →

- METHOD
- ① PUT MAC ON NETTLES (GET JUAN TO DO THIS)
 - ② LIFT BARBED WIRE
 - ③ GET SOMEONE TO CRAWL OVER MAC.
 - ④ REPORT FOR ALL PERSONS
- RESULT MAC GETS NETTLED

CONCLUSION GET A BETTER GUIDE.

FL BIGBO

Dave H & Phil went down to place detectors. Phil found draughting hole.

19/July
UZUEKA BULLSHIT TRIP

Exploration team:

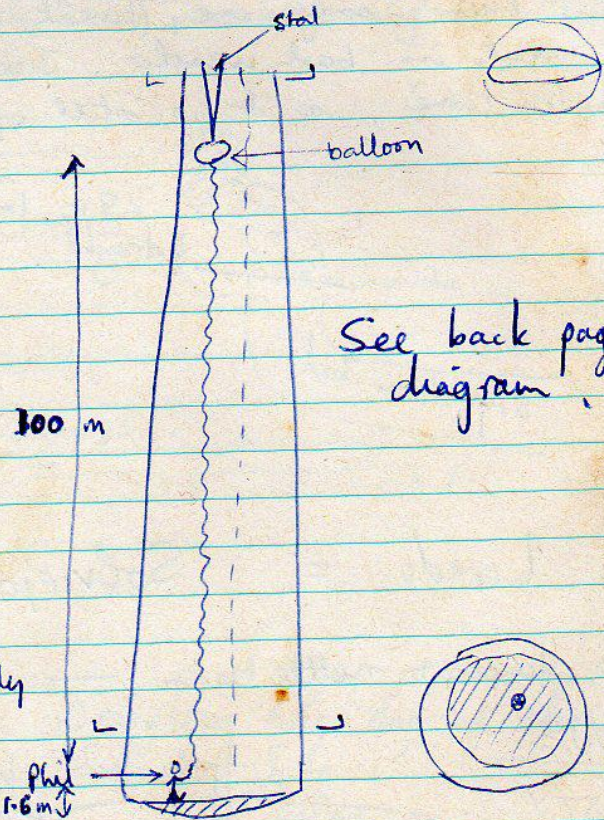
- Pete
- Nigel
- Phil (bottle carrier)
- Frank
- Juan

Spectacular trip to Astrodome for scientific purposes. (had to dig out wet crawl - heavily silted up). Put fluorescein in stream at Astrodome.

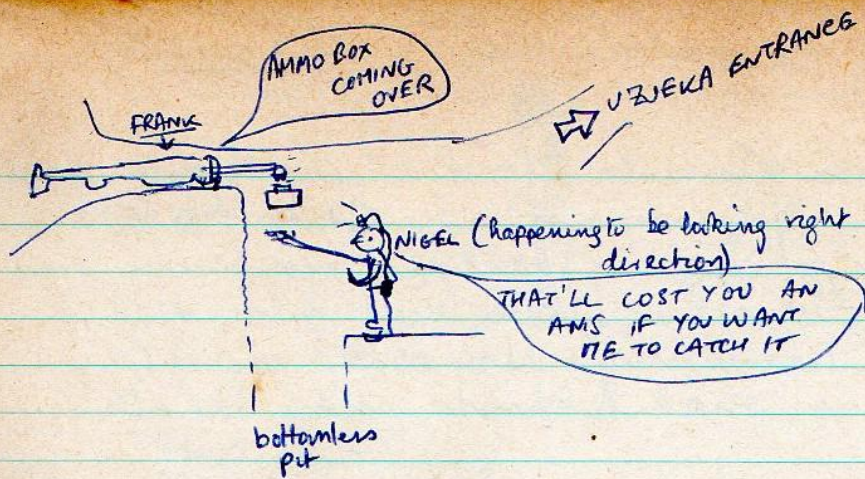
Set up balloon in Astrodome

with Helium bottle (carried in by Phil). Some problems with photography but several pics taken of balloon ascending. Max height reached 101.6m before balloon made rapid descent (unassisted). Punctured on stal. Zoomed out to make it a 7 hour trip. (Phil carried the bottle). Big stuff has been flooded 15ft above stream.

p.s. Surface team (ie Dave, Dave, Tony + Penny) took 3 1/2 hrs to walk from Piano to Nationsp. Its quicker by underground.

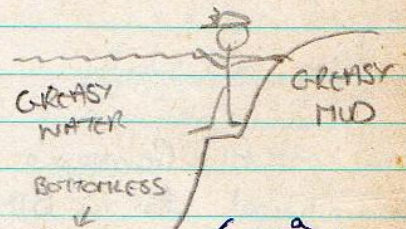


See back page for diagram (IA)



HOW TO GET A DRINK OUT OF FRANK

Thursday 20th July



"Dry" Trip to end of Pinto gallery for scientific purposes (paleontology = bone hunting). Pete, Nigel, Frank, Dave Howard. Found *Cervus mega cervus* antlers (?) at top of last inlet on right before end. (where Frank found bow and arrow previously). Some loose, some stuck to wall with stal incl. antler approx 50cm diameter and 30cm long.

The Guardia (large ones with lots of guns) arrived at the campsite this morning. Juan spoke to them and understood two words - money + guitar. This suggested various possibilities:

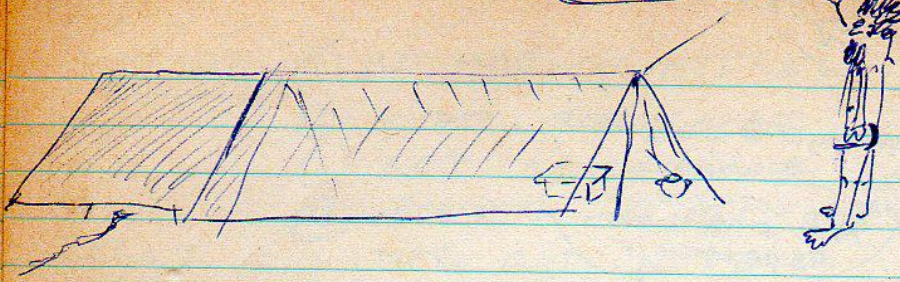
1. You are being fined for playing too loudly.
2. You are being fined for playing too quietly.
3. Come + play your guitar at the police ball.

They gave up and left soon but friendishly tracked Pedro to the very house where he was giving illegal lessons in English and explained that they wanted to help if anything (like money + guitars) was stolen.

Juan, Penny + Frank then arrived and with Pedro were promptly arrested + forced into the Baker's Bar. The Guardia then forcibly fed them olives and Tio Pepe - in the best glasses. All the inhabitants had discreetly disappeared leaving one small boy in charge of the bar. He had to sign their timesheets before everyone left, much relieved.

See diagram 2A

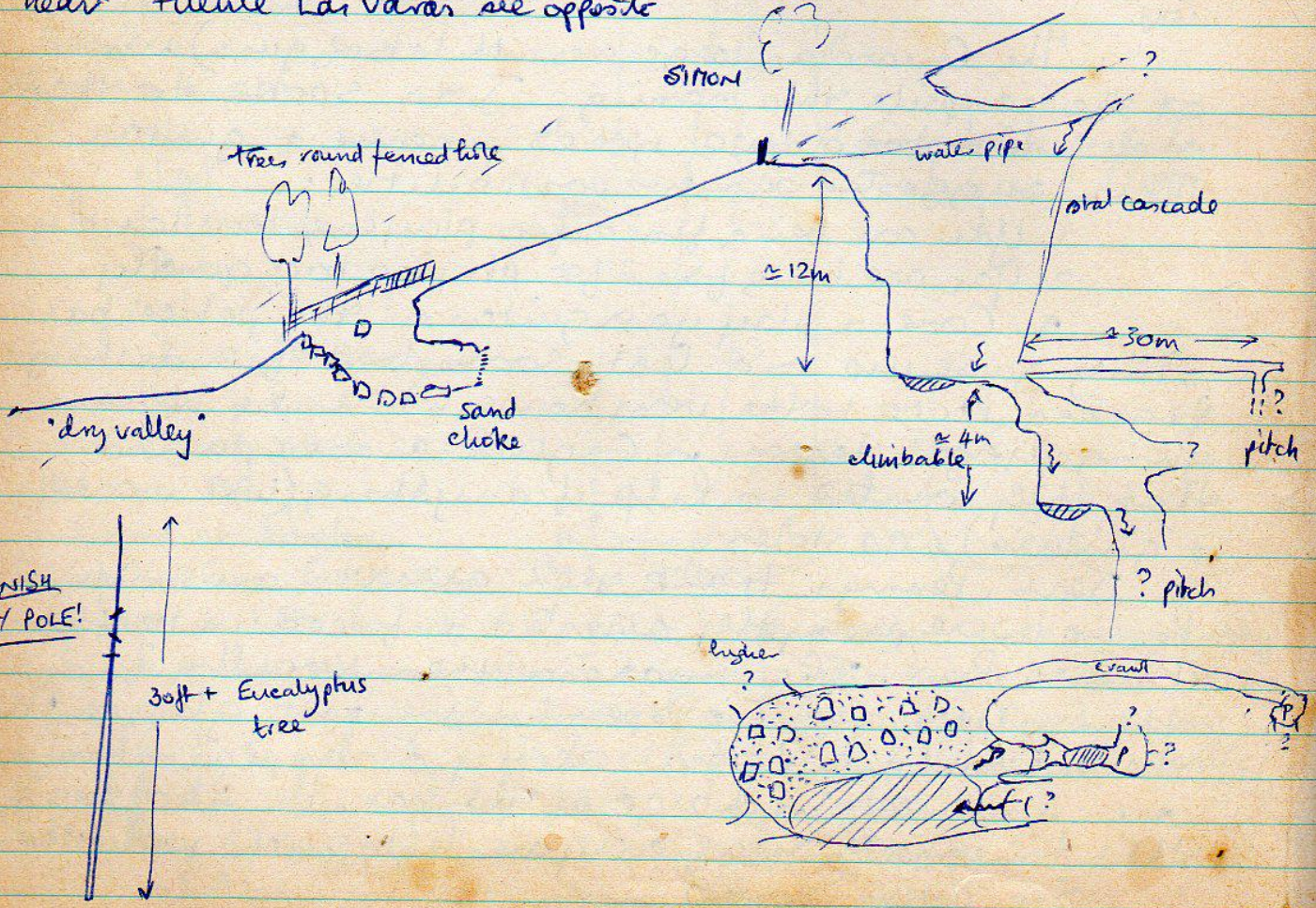
I'm completely sober. --- Where am I??



Juan on Thursday night
 ←

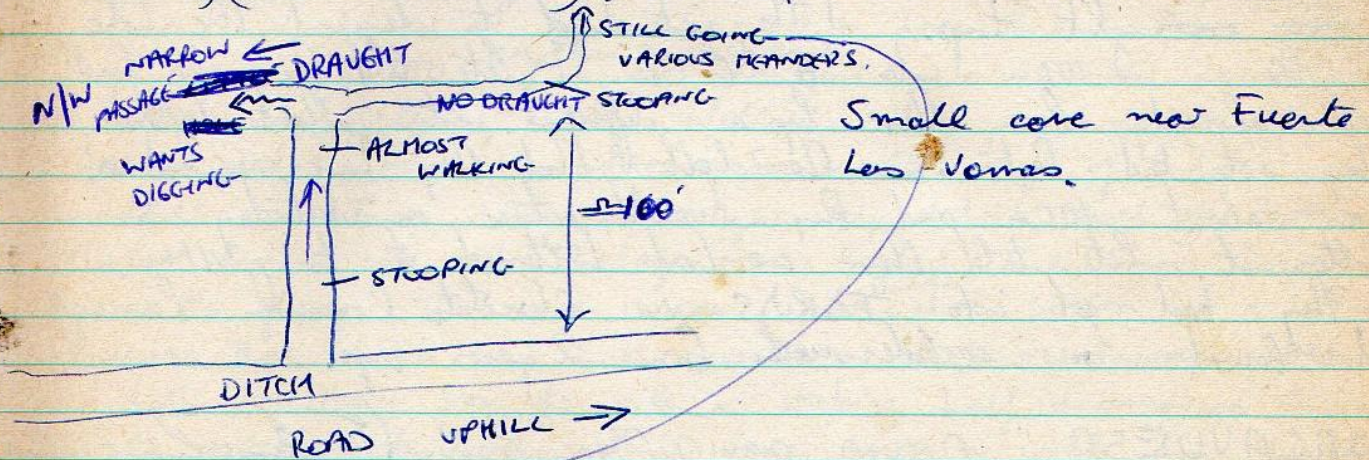
Friday 21 July.

Slow start! German's & Plumbers. Dave, Dave, Pete, Juan, Frank, Tony and Nigel to "SIMON" above Chumo. Entrance pitch about 40 feet to chamber; two ways off (one wet, one dry) both led after short distances to pitches approx 40-50 feet deep. Left for another day. Frank/Juan photographed entrance. Looked at small cave down hill, choked with sand. Returned to Plumbers bar. Frank looked at small cave near Fuente Las Varas see opposite



Juan's remarks on his first wet night since marriage:

- a) It wasn't me - it's a new system for finding your way and one of the bags burst.
- b) It must have been you. You've made all my side wet.
- c) I am sober but where am I?
- d) Well, where should I have pised? What's outside this tent?
- e) (2 an hour later) whose spilt a tin a pis in here?.



SATURDAY 22nd

NEXT DAY goes on and on and on and on, generally S/E for several hundred feet, steeping passage with minute stream and lots of mud, one or two oxbows. Signs that surface is near - snail shells etc, ends in a small chamber 3 1/2 ft high 10 ft long. Tiny way on between collapsed boulders. Water heard running from roof behind boulders. Beware large spider 6ft in from entrance.

Phil, Hilary went off "digging" at 11pm returned at 2pm to find campamento deserted. Dave, Dave and Frank out casing the other 4/9ths at the beach. P+H caught up.

Sunday 23rd.

See 11/11/40

After a heavy night at Los Nieves, Frank, Pete, Juan to Solviejo to end of High Level Series (Quick Trip Passage). Ladders belayed to steel soft pitch which Pete descended getting off into 2 short choked passages on the way. At base streamway met which she sumped after 112 paced metres. On way bank ~200m of higher level entered - needs surveying.

At the entrance met Spanish cavers about to descend for an overnight trip. They intended to descend the hole at B 100m into B QTP. Pete told them he had been already been here by a different route without ladders. They estimated that ~~the~~ the depth that they have reached ~~is~~ was about 100m and they would return on Saturday to bottom it. Pete told them we had bottomed it to 111m.

They had got into TDRDS via Chocolate Crawl Passage and found our carbide marks from 2 years ago.

CARCAVUESO DAVID, DAVID, PHIL, TONY (To ~~climb~~ climb above through 'choke'. After 2 hrs we got pole nearly in place, but it then fell into water and came in two. 15' of pole were then put up climb, from top I could see a way on, but 9' more pole is needed. Geor ~~of~~ left in for next attempt.

On waking at dawn outside a barn:
Then we had a chat - I'm not sure what it was about" David.

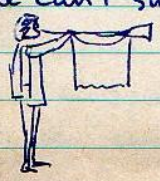
"I milked myself a glass of milk" David.

- Juan's excuses for 2nd wet night: (After taking down his underpants!!)
- 1, It couldn't have been me, I'm still bolting this passage, where am I?
 - 2, I can't be in Matienzo. It's all screwed up with Archimedes screw. Where am I?
 - 3, They must be pumping piss up from Matienzo to Riano.

Monday 26th Juan, Larry Frank and Pete went along track to Pass between Uruval and Secadura, to Lank's 20 ft drop to a boulder ~~at~~ ^{slope (estimated)} and 100 ft deep open passage. 100 ft ^{see illus 3c at back} of ladders were put on and Juan descended while shits-afflicted Frank lifelined. Juan came up and said the ladders didn't reach the bottom. So another 50 ft of ladders were added and Juan descended. Again they didn't reach the bottom. The last ladder and extra belays were added and Juan let Pete have the glory. There were 12 feet spare ^{ladder} at the bottom so it was assumed that Lank had been pissed at the time. Passages stretched in both directions from the pile of stinking half-decomposed animals* at the bottom of the pitch. Juan came down as well and the cave was explored and surveyed. 304 feet deep in total and 1837 feet long. Passage upto 50 metres wide in places. A 15 feet pitch at the bottom was not descended. * And 2 live yellow + black banded things - possibly salamanders.

Monday 24th

CARCAVESES Revisited. By Phil, Tony Dave & David. Maypole successfully placed, climb over sump was accomplished, but passage over sump ended after 20ft in a draughting choke - a remnant from a cavern above. ^{Breakthrough} may be possible. The climb via maypole and 10ft - very greasy holdless climb was in total 40ft. ^{note} The carting of maypole sections in some parts of the choke is difficult (-but not impossible for Matienzo Cavers!). Dave ^{Howard} won anis off Dave after crossing lake when he can't swim



Tony Jefield arched.



see illus 3B at back.

TUESDAY 25th AM ^{JUST} Juan, Penny, Pete + Frank
Went to Ozono to look for big caves,
pulled boulders out of small hole at end
of dry valley. Got into small cave going steeply down - dip,
followed it for ~ 200' with minute stream - blocked by stal -
no drought so left it alone.

Then we went to a further area (well, we went to the
Daughter's Bar first) - exploration of the eucalyptus woods to
the right of the ~~the~~ pass in the south of the valley. Finally we
reached a dry valley - or line of shakeholes - with temperate
jungle - didn't find anything interesting.

Scima Phil, 2 Davids, Tony Williams underground, Surface
controllers: Hilary + Tony Fittell.

The obvious passage over the wet pitches was followed to an
onclimb down of 8ft rope required pleasant Yorkshire passage
to 25ft pitch, delicate balay sounds hollow. After more passage
90ft pitch, only last 40ft is vertical. Again the belays
are dodgy this time in roof beside a large loose flake
Down pitch after 2 short climbs narrowing loose sided
passage is followed to sump. From sump, fault is followed
climbing upwards to 20ft climb with hole but returned
this climb may connect with big pitch - yet to be scumaged.

WEDNESDAY DAY ~~OFF~~ FOR ADMINISTRATION + REHABILITATION.

Went to Santander, to get supplies for the expedition!
+ get pissed - succeeded in both objectives, did 11 bars and
interesting visit to museum

WENT TO BEACH TO GET BROWN. HAD NOOH-UP IN
BERANCA + CAME BACK FOR FIESTA IN RIBA
WHERE WE GOT ONLY A LITTLE PISSED. MET LOTS OF
MATIENZOLTES THERE WHO WERE VERY FAR GONE, AND
MARISOL. PEDRO THREW A FIREWORK INTO THE AIR AND
SURPRISED SOME LOCALS, ONE OF WHOM GOT HURT AND
DEAFENED AND COULDN'T HEAR PROPERLY AND THINGS. LOTS OF
ESPANOLS GATHER ROUND AND TWO TRY TO HAVE A FIGHT
BUT ARE CALMED BY PEDRO. LOCAL IS THEN RUSHED OFF TO

DOCTORS IN RAMALOS, DROVE BACK TO MATIENZO AT ABOUT
TWO, AND THEN TO BED.



ESPAÑOLES BEING
BLOWN UP

MIRACULOUS RECOVERY! SAME GUY ^{GOING TO} ~~WAS~~ FIESTA IN ^{RIVA} ~~AT~~
NEXT NIGHT. HE MUST LIKE A GOOD BANG. ^{TONY} ~~SATFORN~~ WON A
BOTTLE OF LIQUOR AT THE RIFLE RANGE - see illus 4B.
THURSDAY

TWO PARTIES (I'LL LEAVE A GAP FOR THE OTHERS STORY)
WENT DOWN SOLUETO TO DO THINGS. WE (THAT IS, TONY,
TONY, FRANK AND ME (TONY)) TOOK PHOTOGRAPHS AND SURVEYED A
COUPLE OF LITTLE BITS, ALL OVER THE PLACE. GOOD TRIP AND SAW
LOTS OF THINGS. DUE TO LATE START (3.00 PM) WE DIDN'T
GET OUT UNTIL 10.30 AND THEREFORE HAD A LATE START
IN THE BAR. Large stool fell on Tony and nearly transfixed him to

John y Linda arrived! the floor of the
high level pretties
chamber in Q.T.P
(see illus 4A at back)

GAP FOR OTHER
PEOPLES STORY

GOT BACK TO HERMAN'S TO FIND LOS PUNK DRUNKS
HAD ARRIVED, KIDNEYS SHIVERED IN EAGER ANTICIPATIONS

Phil, Dave, Pedro surveying and pushing. Surveyed remainder of passages off Q.T.P.
Surveyed high level series to junction above squeeze after greasy pitch to campsite.
Phil climbed even higher to find misty passage, went for miles through pretties, not
surveyed. finished at pitch down. later realised we had done circle and arrived back at start.

FRIDAY 28th Kawaja → Matienzo has Crawl + drawing up surveys
Beach for some. Heavy night in snows
[Phil Tony Hilary left.]

SATURDAY 29th ← Detector removed from Secadua - dry. Dye reported
Whole team to Cobranter Mega passage surveyed
for 230m to a ~ 20m pitch. Photographed to death
See illus. SA SB

SUNDAY 30th Juan, Dave + Dave down Biggo. Removed detectors
and pushed up high in the boulders. New bits have
simple formations all through mostly thrusting up through boulders
Height surveyed + 123 ft length ~ 300 ft. - all on the fault.

Upstream detector +ve.
Lake detector -ve.
Pitch detector +ve.

Sue, Andy, Caroline & John arrived. Drank at
Hormans & Snows & then went to sleep. John
Climbed mountain & spotted 3 Egyptian Eagles vultures

Monday 31st July. Everybody, except Dave H to
San Miguel to continue Cobranter. Briefs in Uweva
& San Miguel bars, and then up hill. Pedro,
Frank, Juan + Me (Tony) down pitch to survey +
photograph. Cave ended after about 250m max,
but stal + flowstone well developed. Penny / Linda
digging in the extreme unexcavated bones + flints and
things.

Janey rather a nuisance again.
Penny writing rubbish again.

The expedition would like to extend our grateful thanks to German who donated a rubber for our use.

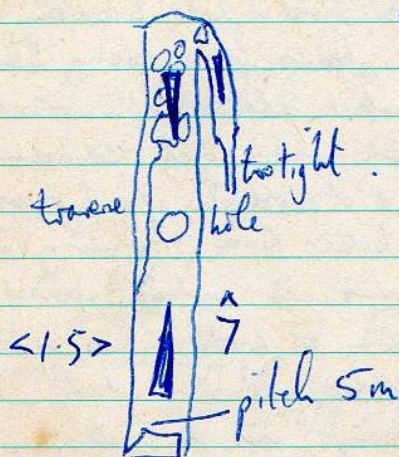
TUESDAY 1ST AUG

DID MORE CAVES THAN BARS, BUT MADE UP FOR THIS LATER IN THE SNOWS.

Juan, Penny, David, Tony, Pete + Frank went cave hunting above Black Crow cave near Llanada. Various shafts and entrances descended, mostly choked. Cuava Abeno. nice walk in entrance at top of biggest hill in Spain, near choss down to shaft in floor 50 ft. via ledges and cow skeleton to chamber with goats, steep ramp descending at 45° leads down to chamber with high caverns and buggie all else. Further round same cliff face is small entrance leading onto 30' pitch choked at bottom, containing a goat skeleton. Depression below containing dead tree at middle slope has tiny hole at bottom (1/2 hr dig) leading onto echoing shaft, no draft, Cuava Serruco bottomed by Tony.

WEDNESDAY 2nd Aug. Frank, Dave, Juan, Penny, Sue, Andy, John, Carlina, John, Linda to Snows, Hen Run, Thomas, Fly Catchers and Horses Head Cave.

Andy + Dave opened up hole up above. Stone drop for 4^{1/2} seconds.

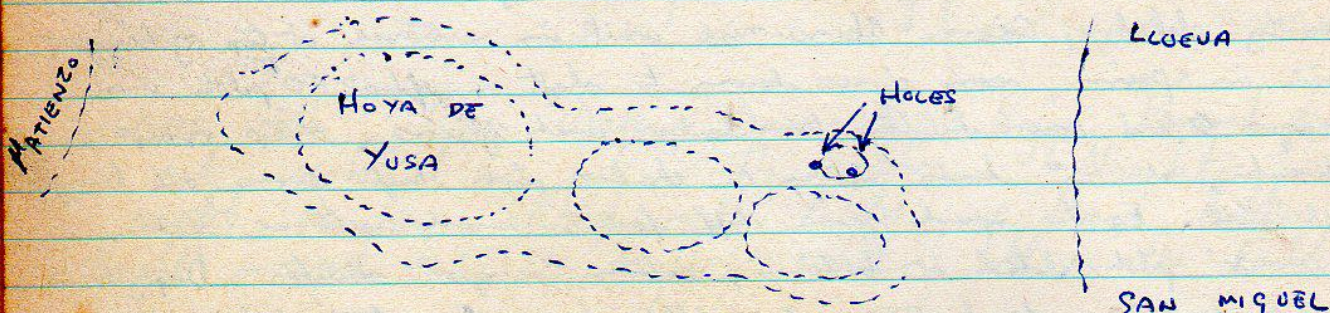


possible with hammer + chisel.

Miguel mentioned stream sinking at Alyscias had been dye tested to Comedante. Visited Alyscias to find stream was a rumour. *Figure of imagination

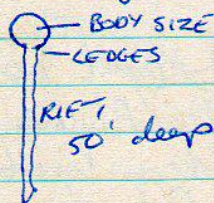
Andys and Juans gear both packed up at the same time, on way back to Amedoucho.

Wednesday August II Went up Mella to look for
 shots above where cobras might congregate and
 to photograph scenery but mist so thick, very
 little could be seen. However, managed to find two
 which might be interesting about 100' and 200' deep.
 Must be some more ground, but mist too thick
 to see much.



Aug. 3rd Thursday

Pete, Dave, Tony, Frank, Juan to Simon. First 3 surveying.
 Juan + Frank re-belay ladder to enable a swing into high level
 passage. About 60ft long in the rift to a 4ft diameter circular
 shaft. Stones whistle down for 2 clear seconds, ~ 70ft. Then
 down to cool part of path where an open cave had been cleared
 of its covering of jungle. Short crawl leads into low bedding with
 silted floor. Short low crawl in corner leads to echoing blackness.
 Descend calcified ramp into 20' high passage which chokes after ~ 120 ft.
 Side passage ~~exists~~ is very boring and soon gets to ambrosia
 to be bothered with →



Not much fun really. Had
 better time reaching a Spanish
 New car which would not start
 due to both chokes on the twin
 carbs jamming shut. Juan's
 finger did the trick.

2025!

ACHIEVEMENT! (?)

Aug 4th Friday. Juan Penny Frank photographing in near Series of Uzueta. Dave + Tony surveying a new bit. JD Luta + Pete on a bar crawl 45 done

SAT 5th AUG

PETE, JUAN, PENNY + FRANK to look at draughting holes above Concaunas (Pete knows where to find them) Juan looked down first one, descent of 12' (ladder) to crawl, good draught but everything loose and moving. Juan said only a madman would look in there and made Frank have a look, Frank said it was horrid and came out quickly. Would repay a dig with pulleys to shift big rocks. Next hole further up hill, very small fissure with good draught in corner of shale hole filled with loose boulders. Pete tormented this lot with a large crowbar (coercing Miguel) and got all the floor wobbling nicely, opening a passable hole into which a large black fell almost ~~immediately~~ at once. Needs lifting gear to remove big rocks. This one is close to the dry valley above sandstone passage in Uzueta. David + Tony prodding holes in vicinity of Roratu: -

Tony bought a beret ~~see~~ see 6A

Dave, Tony up el de Suto. Trust to Mercurians honey and then up hill. Looked at string of shale holes but had been explored '75 and '74. Looked at windows ~~shaky~~ and tried to dig. Hours of work resulted in nothing. Eventually gave up in disgust + went home (has News) (Bar Gerouen). Dave was interested by Kleys + Flies etc.

Fig 6B. Back to normal Maxiengo weather. 6th Aug Sunday Frank Juan horrid trip to fault extension in Biggo. Lump hammer in and passed had to swim ~~car~~ across lake to climb up boulders for ~200ft to pitch found on 30th July. 13ft pitch to lagish chamber - one way leads to chokes; other way leads to calcite wet pitch which must be water heard at end of draughting passage. 2 man trips are not recommended for Biggo especially with lump hammers.

SUN: Phil Mick + Paul arrived

(20)

MON 7th AUG Down, Tony, Phil + Frank to high level passage
in Simon. Interesting ^{see illus #07.} pendulum into passage from
ladder belonged to tree above shaft, leads to 77' pitch in nice
shaft, mostly free hanging. Open passage can be seen opposite
ladder part way down (appears to be above ~~passage~~ passage at floor-level)
attempt to get into it abandoned as lumps of wall kept falling
off. There is a ^{narrow} hole in the floor which could be enlarged and
seems to go down about 20 feet. Yorkshire type rift passage goes
on narrow at first then walking to 20' pitch down into large
shattered chamber, below is to mass of loose pebbles jammed
in rift, everything is loose and humid. There are death laden
climbs at both ends of the chamber which look to be blocked
at the top. ^{Small} hole in floor under dripping water leads to another
narrow rift with 2 ways on: ① straight ahead to pitch of
about 12-15 ft which has not been descended due to lack of tackle
(might be free-climble by combined tactics) ② downwards to tight
crawl with no draught which was left for someone else to do.

MORE BLOODY RAIN.

Solwigo Pete, Paul + Mick surveying Misty Passage.

Entertained 13 Frenchies at Germans at night. Left at
12:30 as they were supposed to caring. A miserable bunch.



21

1A

digging
entrance
gowl

1C

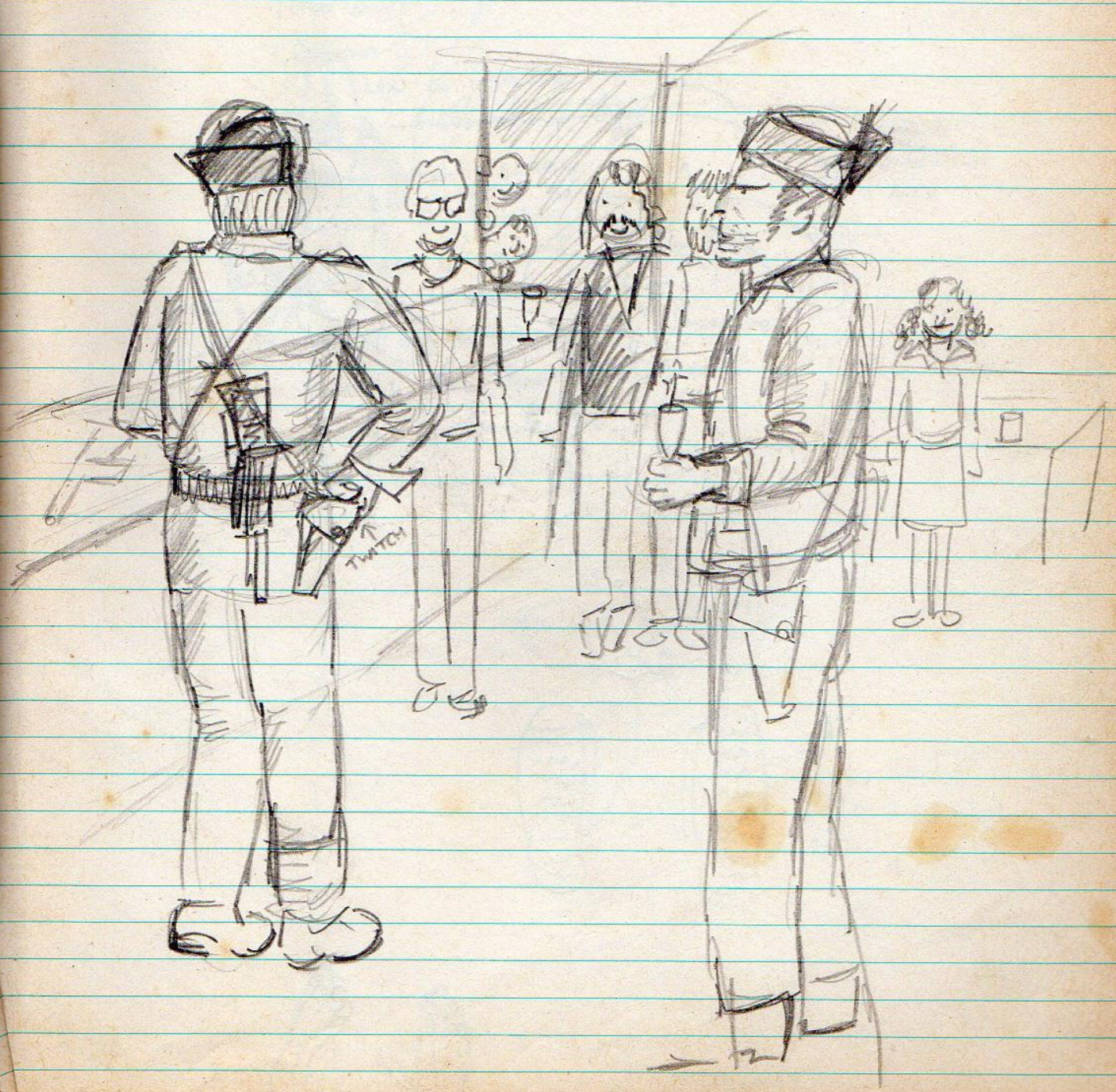
Phew

1B

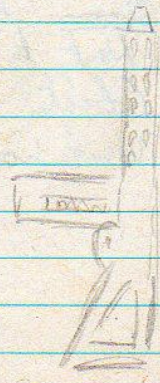
Phil at
entrance after
carrying bottle.



2A. We have ways of making you drink.



3A (clarification of Fresno nettle fence crossing method)

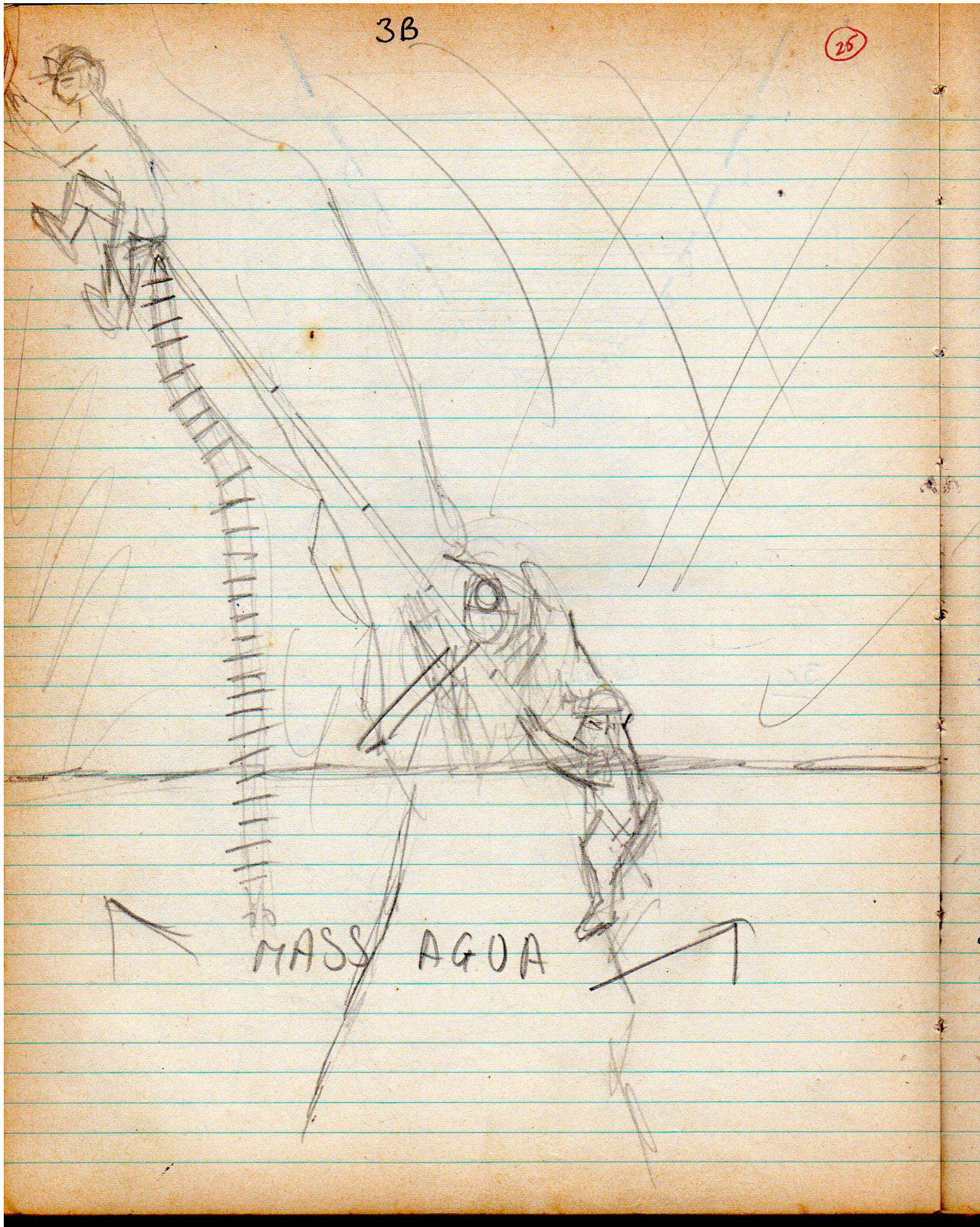


35 underground series
 || digging + prospecting etc

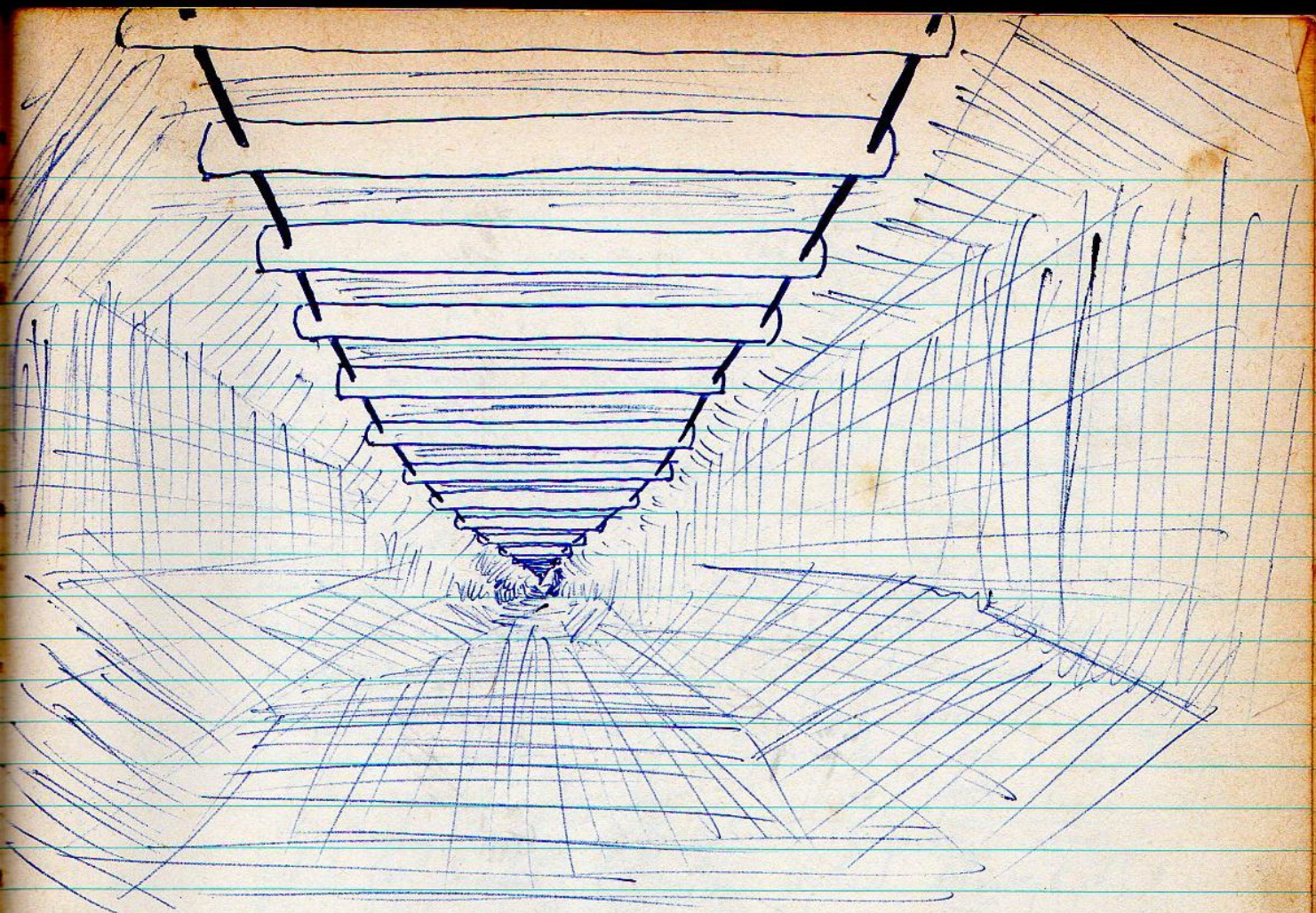
- 12/7 ~~Torca~~ Solviejo Tackle + surveys
 13/7 Ogario cave hunting. Torca del Arbusto found
 14/7 Solviejo survey upper series Phil, Frank, Tony arrived
 15/7 Sel de Suto dig. Torca del Arbusto finished.
 16/7 " " " " (bit of a tedious day)
 17/7 Solviejo bottomed, lower series surveyed, entrance photographed
 18/7 Biggo, Renada, water sample collecting + detectors placed.
 19/7 Uzueka ballooning + drying dye testing Phil + Florencia
 20/7 Torca del Sedo Pinto gallery bone hunting
 21/7 Simon started
 22/7 Beaul; dig 2 above Sel de Suto; ~600ft of core at F.L.V. Nigel leaves
 23/7 Carcaruero mappoling. Solviejo QTP pitch at end and extra high level
 24/7 Carcaruero mappoling. Torca de Cellarón explored + surveyed. Tony F arrived.
 25/7 Simon bottomed and partly surveyed. Ozano small cave
 26/7 * Secadura remove detector. Fiesta. Santander + beach. Dye reported in Bayames resurgence.
 27/7 Pushing surveying photographing in Solviejo. John + Linda arrived.
 28/7 * No casing, psyching up for Cobranter. Drawing surveys.
 29/7 Defector from Secadura. Cobranter started. \$ (survey to pitch + photos)
 30/7 Biggo detector removed. Fault extended + surveyed. Sue, Andy, John + Linda
 31/7 Cobranter exploration + survey finished also photos.
 1/8 Casera Serruco, above ~~explored~~ ^{explored} Abano ~~surveys~~, various other shafts descended.
 2/8 Hones Head Cave. extended - needs H + Chisel.
 3/8 Simon surveyed + site passage altered. Drought at site of track decided to start core
 4/8 45 bar crawl. New series of Uzueka photographed + bit surveyed.
 5/8 Droughting holes above Carcaruero at Renada looked at. Holes above Ren.
 6/8 Trip to check Biggo fault ext: it doesn't go. Plegante plumbing.
 7/8 Simon high level extensive explored + surveyed. Solviejo survey misty passage
 8/9 * Went to buy scythe
 9/8 Cobranter photography.
 10/8 Went home

3B

25



MASS AGOA



3c

Cellarón

4A Transfiguration of Tony.



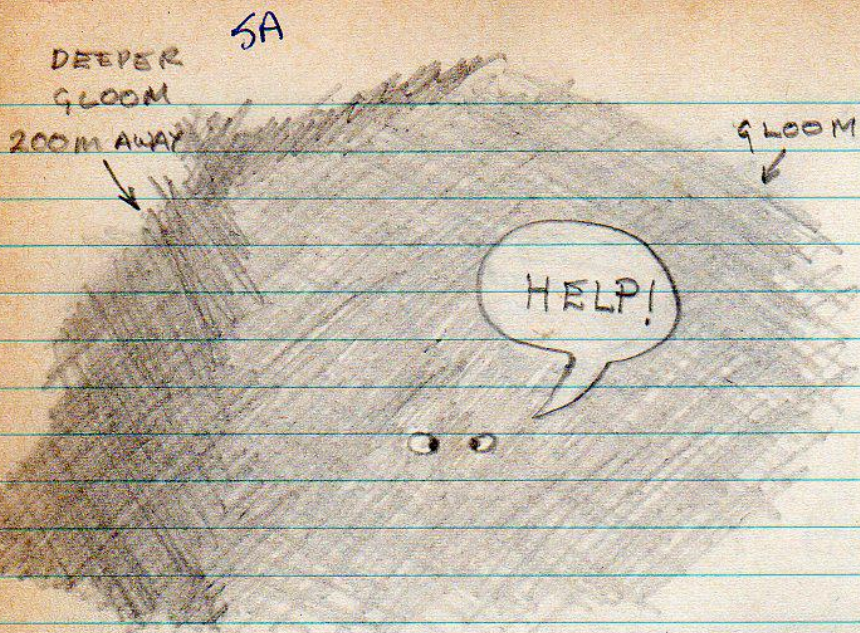
4B



4C

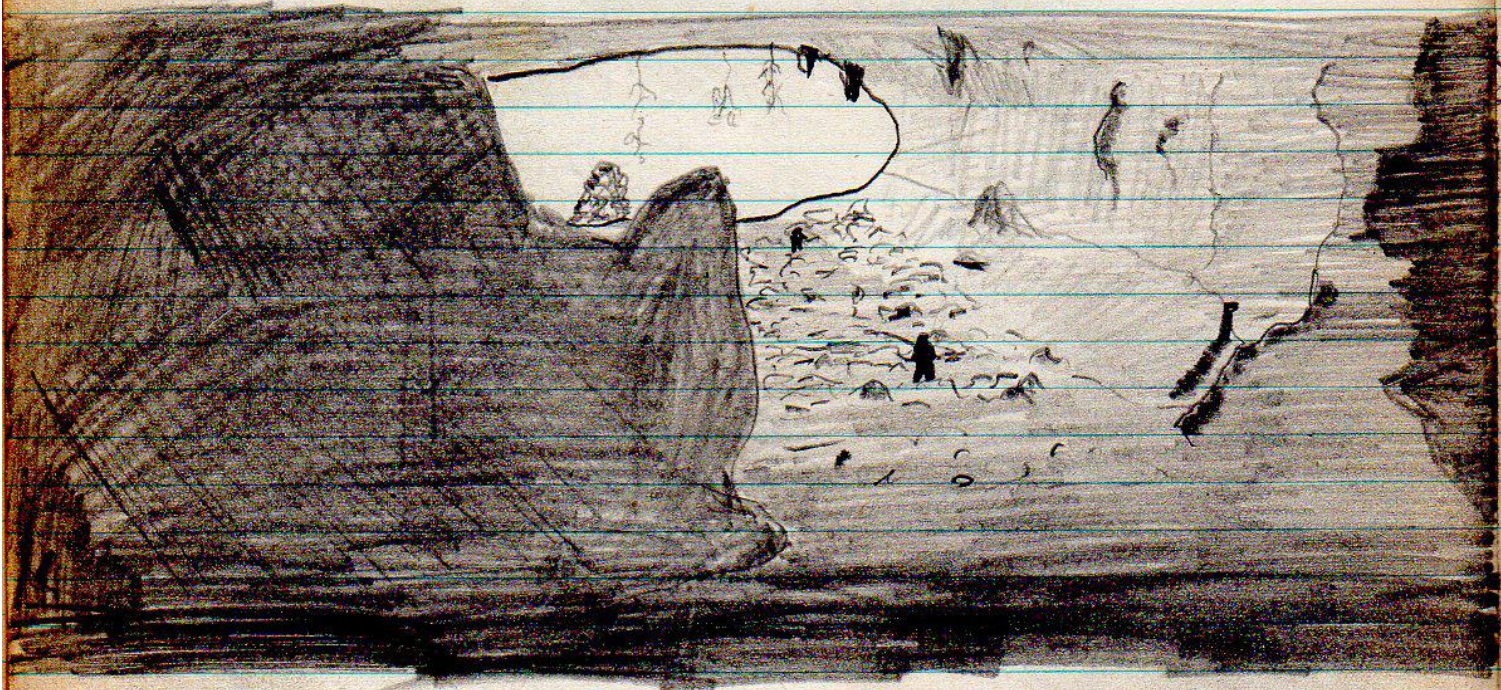


Pasa Doble in Las Nieves.



LINDA IN COBRANTES

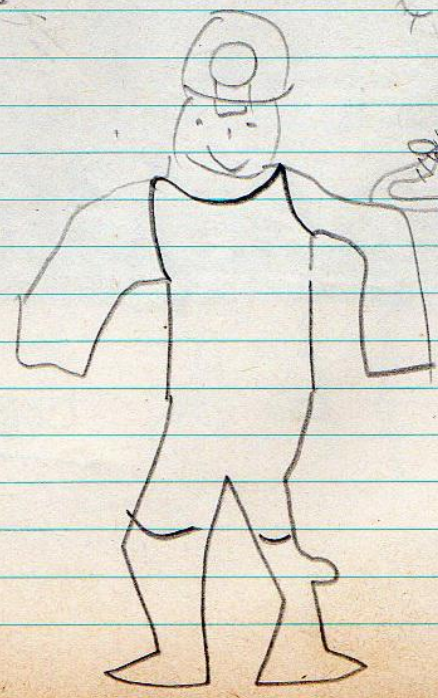
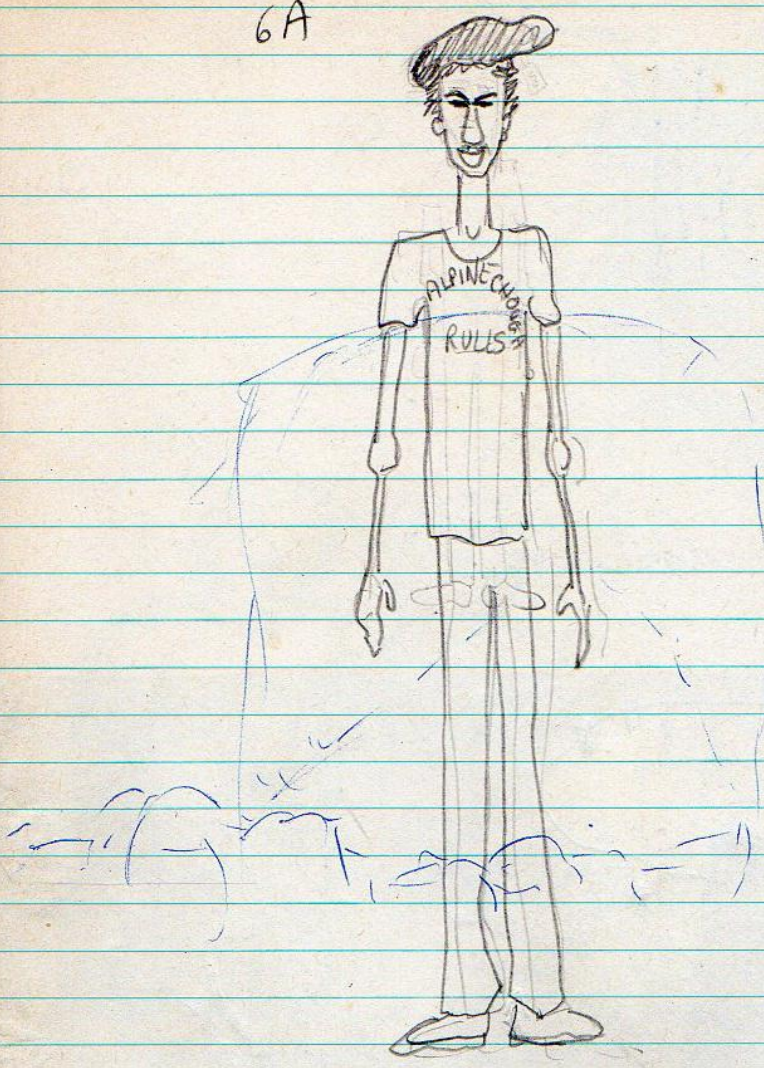
5B



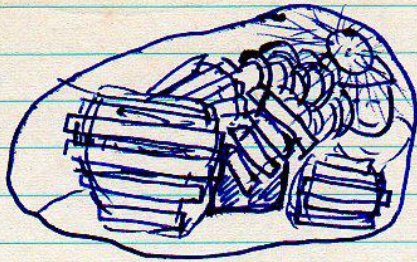
COBRANTES

6A

Uzveka Geat.



Biggs. 6B.



Fault extension.



6c.

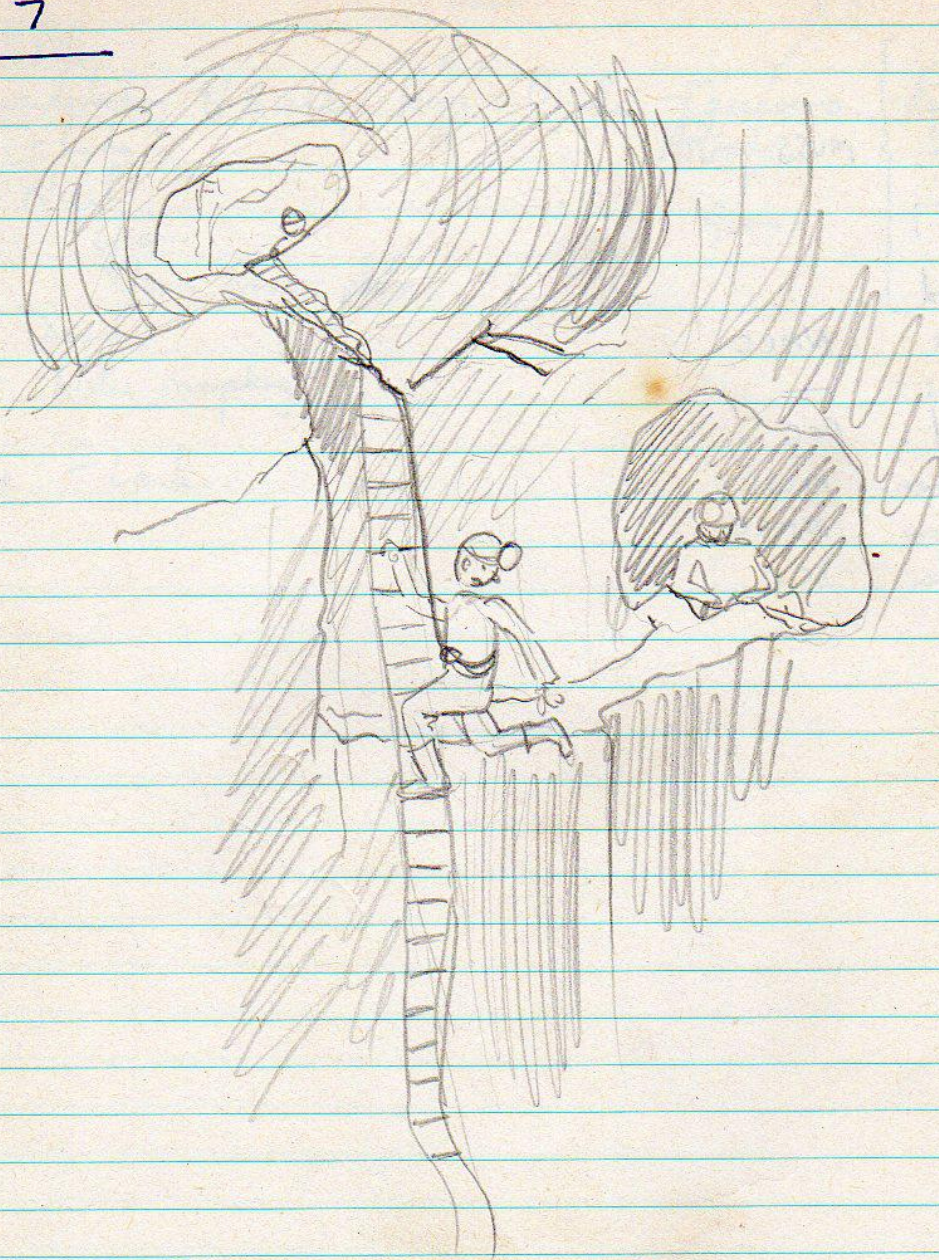
32



Biggs Fault Station

33

Illus 7



MATIENZO CAVES PROJECT