Peru Caving 2012 September, October November

An international expedition to the Cajamarca and Yauyos districts of Peru



Rob Middleton in El Desnudador, Photo Guillaume Pelletier

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1. Introduction

Between 19 September and 7th November 2012, an international team of 10 cavers were involved in an expedition to recce the promising looking limestone in Cajamarca in Northern Peru and then visit the plateau with the highest known caves on the planet, in the Yauyos region of Central Peru.

This report summarizes the achievements of the 2012 trip and aims to assist any cavers wishing to work in the Andes.

All photographs are copy-write Peru 2012 and are credited to the photographer where possible. A website with more photographs, news, a blog and various links and documents can be found at http://peru.commscentral.net.

2. Background

The Andes is the longest, and second highest mountain chain on Earth, it extends over 9000 km through South America. It has formed above an active subduction zone which continues to push the oceanic crust of the Pacific beneath the continental crust of South America. This huge geological activity accounts for the line of volcanoes that intermittently extend along the length of the Andes and has caused pre-existing rock formations to be dramatically uplifted into their present positions. At Yauyos this uplift has been extreme and has caused pre-existing Mesozoic aged limestone units to be largely pushed up into a vertical position and in some areas completely overturned from their original flat lying depositional position. The typically vertical nature of the limestone beds has a massive influence on cave development in this area and the implications for explorers is that most of the caving is vertical in nature. However with such extreme uplift, there remains potential for cave development at all angles. Another, slightly concerning, geological fact for cave exploration in the Andes is that this is a seismically active area, the mountains are still rising, and in other words, earthquakes are not uncommon and have been known to be quite large!.

Many expeditions have visited Peru, some internationally based teams as well as French, American and Brazilian.

Speculation had arisen over the years as to whether major cave development at high altitude is possible, with early Peruvian trips not being as successful as hoped. The common theory was that the rain water falling at high altitude had not absorbed sufficient CO2 which in turn makes it acidic and speeds the process of cave development.

Although the theory may still be correct, the 2001-2004 Yauyos expeditions proved major cave development was still possible by recording the deepest cave known in South America to be Sima Pumacocha at -638m and Qaqa Mach'ay at 4930 to be the highest recorded cave in the world.

The 2001-2004 trips included various recce trips, including a scout to the Puyo valley where a few entrances were checked for cave development and 2 going caves - Tragadero Puyo and Cueva Puyo were left at pitches. Overall the expeditions had great success.

Their reports can be found on their website:

http://members.shaw.ca/pumacocha/

Many speleologists have followed the Peru Caves Project with keen interest and it was easy to put a team together for 6 weeks of karst recce and cave exploration in the high Andes. Alpinism in stunning scenery, altitude challenges and the potential for 1800m depth potential was enough of a lure to tempt cavers. We were also given a great lead by Lima based caver Jhon Huaman in the Celendin/Cajamarca region and with further study of the geological maps and google earth we decided a proper recce trip to the state would be valuable.

With much enthusiastic and detailed input from many knowledgable cavers, it would be impossible to name everyone who helped put the wheels of the 2012 expedition into motion. We would like to thank Les Oldham for his continued support of the project, his friendship and assistance is greatly valued. We would especially like to thank cavers Jhon Huaman, Snablet (Peter Macnab), Nick Hawkes, Ian McKenzie, Steve Knutson, Martin Holroyd and other members of the 2001-2004 expeditions for their invaluable wealth of knowledge and continued encouragement/support of the project.

3. Summary of Objectives and Locations

Kueva Konga was discovered by a contact of Jhon Huamans, a young geologist called Victor, as he passed through the Jadibamba valley in 2010. The name Kueva Konga was a deliberate misspelling by Jhon, however after realizing how anti Minas Conga the locals were, and given it's proximity of 6 km to the proposed Minas Conga site the expedition wisely decided to change the name to the name of the river Tragedero Jadibamba. Using the datum South America '56 it is located at 17M 0791827 9244669 Elv. 3639 on the Celendin map sheet. The cave scratches a small part of the contact, it was a good starting point for cave exploration in the area but we were more interested in the block to the south - the Pachachaca hillside and the depressions to the east on the Cerro Cruz hillside. Our main objective was the going sink - the photos were very impressive and the google earth image also made an impression.

Tragedero Puyo and Cueva Puyo were our higher elevation leads in the Yauyos district to the south. These were left at pitches by the 2004 expedition.

Our main plan was to base camp around 4600m so that we would be well acclimatized to pushing vertical caves around the same elevation. The block is shown on the google earth image to contain many shafts and potholes and should we have exhausted those there was plenty left to look at in the Sima Pumacocha area to the south. There was also a plan to recce the Rio Canete sink and resurgence and look at the block above and North of Tomas.

Tragedero Puyo is marked on the Yauyos mapsheet at 18L 0434304 8641596, Elevation 4681. It was fairly obvious to expedition planners that there was lots to investigate in this area.

4a. Cave explorations

Cajamarca Area

Tragedero Jadibamba (Previously named Kueva Konga) by Andy McKenzie



The karst areas located in the surroundings of Cajamarca and Celendin in the North of Peru are barely explored and therefore poorly documented by both local cavers and international caving expeditions.

We left Lima on September 23rd and it took us 2 days to drive to Cajamarca where we had to spend 2 more days sorting out the last details mainly food and meeting local contacts before heading out to our objective - The Tragadero Conga. This impressive sink - located nearby the infamous Yanacocha mine and even closer to the strongly contested Conga mining project was brought to our attention by a Peruvian friend and it appeared to be quite promising on the Google Earth images that we sought out.

From a logistical point of view, the exploration of this moderately high karst - 3400-4000

Guillaume shooting Andy in Tragedero Jadibamba. Photo Adam Haar

metres would give expedition members a unique chance to explore an unknown area whilst getting acclimatized to caving at altitude. This would set us in good stead for the second half of the expedition where the objectives were much higher.

On September 26th, after a long drive from Cajamarca to the tiny farming settlement of Pampa Verde, we set up our base camp nearby the sinking entrance and other karst phenomena of the surrounding area. The morning after, our dreams of finding a sister to Sima Pumacocha (-638m) ended rather quickly after exploring, killing and mapping the full 511m of cave passage of Tragedero Conga in half a day! The impressive entrance opens to a well developed fossil superior section which quickly hit swimming passage where it split two ways, one way caffled after about 100 more metres at passage breakdown and the other way went to a sump below an 8m pitch. Although the cave was well developed and showed that the local



limestone was speleogenic its depth of 40m was not what we had been expecting. The local area was full of other entrances - and we had time during our acclimatization to check them all out. A few of the lads suffered with the altitude but generally we felt stronger and stronger every day. Right next to camp there were 3 huge sinks -Camp Cave and two adjoining caves named Cueva Pero Morte. Both showed signs of decent development but neither went very far.

Andy, Tragedero Jadibamba. Photo Guillaume Pelletier

Further up the hill, various features were explored - some pits, some horizontal development. One feature was 80m by 40m across. The karst was very impressive but we found that it was frustratingly impenetrable. One valley to the west of camp was classic yorkshire style terrain. It was one long line of dolines running from the ridge. 2 short caves at the head were explored.

On September 29, Guillaume, David and Andy decided to take a truck and drive 4km east north east of camp - where a line of dolines head towards the steep hillside above Huasmin, on arrival to the neighboring valley we were met by some fierce locals who assumed us to be miners... Guillaume's report of the incident which forced us to up sticks and leave the area is below.



Nic checking the sump in Camp Cave. Photo Andy McKenzie

¡Conga No Va!

By Guillaume Pelletier

After the 'coup de theatre' in Pampa Verde we noticed that the water resurged about 500m after sinking underground, we had to move to more promising ground of cave wonders. A look at the topo map showed a promising sector with big depressions, but this happened to be ever closer to the Conga mining project that is screwing the social, political and environmental situation for almost 100km in the surrounding proposed mine location. Probably a bit naively, David, Andy and I left to have a look at the area, the caves and the pulse of the locals. On the road to the area, our "blanquito" head and our mining rental truck already started to raise some concern about our presence - for sure it did not put any smile on anybody's face as we made our way to the sector. When we arrived in the village of "Pueblo no. 8," Andy and David went down in one of the big depressions while I stayed with the ute trying to chat with the very little villagers that were around. Everyone kept returning to the fact that we were white and were traveling in a mining truck - we had to be miners! I explained as best as I could that we were tourists and that entering caves was our hobby - just like others would climb mountains - but the symbolic of caves and mines was too similar and I knew that they would never make the distinction. Andy and David discovered a vertical entrance in the first shake hole - it looked quite decent.

We moved the truck and Andy and I went down into the next depression where we met a farmer who for once, seemed to almost understand why we were looking at his land and paying so much attention to it. We laughed and joked together which almost made us think that our quest would be accepted by the locals who are struggling against the Conga project... The hope stopped quickly when on the way up the local priest stood in the middle of the road stopping our passage. He was angry and full of questions. He soon was backed up by 2 woman - both carrying babies on their back that were even more furious with us. "You are miners, you're lying to us!"

"Why did you go down to these depressions, took photos and never asked for permission? You're miners - there is no doubt you are lying to us!"

I tried all the arguments I could to explain to these people the reason of our presence but nothing worked. The talked about how their water was disappearing; their animals were dying and the fact that their kids had no future due to the proposed mine.

"Only God will know if you're saying the truth..."

A sentence that appeared to me to be rather unhelpful under the circumstances since, just like the cops, its never there at the right time! All the time I knew that the idealogical framework that supported the struggle would not let any of my arguments to be accepted by them...

"Estan mineros, me voy a buscar los hombre de la Ronda..."

I was not quite sure of the meaning of Ronda but I told Andy to turn the truck around and be ready to escape at any moments, that they would force us from the village any minute soon! We made our sincere salutations and left the village. This was undoubtably the biggest deception of my life of "cave diplomat." I felt profoundly hurt because my heart was 100% in support of the different communities in the struggle against the totally unacceptable Conga mine project. "Conga No Va!"

Note: The term "Ronda" describes local opposition/resistance, loosely translated as a lynch mob. We decided that it best to leave the area in the next couple of days. Guillaume and Andy

4b. Cajabamba area - El Chorro and Brokeback Mountain

By David Taberner

We arose early from our accommodation in Cajamarca. While the diesels warmed up in the car park we quickly packed up our overnight gear before climbing aboard and driving towards the southern outskirts of Cajamarca to pick up our guide Victoria.

We'd met Victoria by chance the day before in a local coffee shop. She was the local tourism representative and was very interested in hearing about our story of having travelled halfway around the world to explore caves in Peru. She'd told us she knew of some caves down towards the Cajabamba area 130km to the south east and was willing to guide us there.

We reached Cajabamba in good time thanks to tarred multilane roads. We had breakfast/morning tea in Cajabamba before heading into the mountains. We left the tarred roads and started to climb along the single lane dirt road that went around and up the mountains. We passed small mountain communities and even had the privilege of seeing local market day where people had travelled from all across the hillsides by horse, pony, donkey and or foot to sell their wares.



Nicholaus Vieira cave hunting. Photo Guillaume Pelletier

Our vehicle journey for the day stopped at a farm owned by some of Victoria's relatives. We were welcomed with open arms and invited to a hearty lunch of rice, lentils and an assortment of other local produce, it was a real treat. During lunch we were told that the caves were still a good distance from the farm, around a 7 hour walk each way, or roughly half a day's horse ride return. It was decided that horse was the only viable option to conduct a quick recognizance of the possible cave. It was set that Nick and I should be the ones to venture off into the mountains being the only ones who had much of a horse background. We would have two of the locals come with us to show us the path and the location of the cave.

The ride through the mountains was truly the most amazing ride I'd ever under taken, the effects of the altitude on the horses and terrain so steep that the horses would do a controlled slide down the steepest parts were just some of the highlights. After several hours we reached the furthest point we could on horse, from now on we'd have to walk.

After gaining a painful 500 additional metres in altitude on foot we reached the cave. Unfortunately the cave turned out to be no more than a large rock cavern. After taking a GPS position we returned to the horses, saddled up and started the trip back arriving back at the farm house well after dark with the rain starting to come in over the mountain tops.

Next morning saw us hit the road again headed back to Cajabamba. From Cajabamba we headed out for Bambamarca where Victoria had arranged for us to meet with the family who runs the local museum. They told us of cave called El Chorro, (The Squirter) so named due to it gushing water over the road at certain times of the year.

About an hour's drive from Bambamarca we reached the entrance, located about 30 metres up from the road and then another 15 metres directly up a limestone wall. The entrance hole was around 2x4 metres in size and appeared to continue into the hill.

Andy, Nick and Adam started right away with the climb up the wall to reach the hole, while the rest of the team started to look at the surrounding area and setup camp. The boys returned early evening and reported the cave was still going! From the entrance it had trended upwards, the cave was left at a small climb. The following day we broke into multiple teams, some including myself continued exploration of the cave and others walked up the nearby hills looking for further entrances. Adam and I pushed the cave, which continue in an upwards direction for a while before it then started to trend downwards. As we continued survey shots we started to encounter puddles of water for the first time. It went from the puddles to walls covered with wet mud, I had a feeling we'd see a sump soon. Sure enough, it wasn't long before we reached a 2-4 metre pool of water. Probably a hanging sump, but without dive gear we had no way of knowing. The following day a few guys returned to push a climb and see what was at the top, although a lot of fun was had, no significant passage was found.



Unfortunately this sump and climb marked the end of El Chorro exploration. Our continued investigation of the hills nearby yielded little of interest. It's certainly possible that a larger system does exist in and that El Chorro is a pressure release passage when more water enters into the system then is able to escape via another method. However without finding another way into that system we had to conclude our exploration of the area for this trip.

To the west a 30m long high cave was discovered full of ancient Pottery, and we were told of Inca caves further down the valley.

Behind the mountain Andy and Adam found an incredible valley which held more potential than the El Chorro side, 8 caves/potholes were discovered - 2 with 7 - 9 second drops for a stone but enthusiasm for the area was lost by some expedition members, people were keen to get to Yauyos and set up a base camp so these leads were left for another trip.

David in the entrance of El Chorro. Photo Guillaume Pelletier

4c. Yauyos District

El Tragadero Puyo 18L 0434304 8641596, Elevation 4681

By Andy McKenzie

In 2004, some mates of mine from other expeditions - Chris Densham and Pete Whitikar, were charged with visiting the Tragedero marked on the topo map in the Puyo valley. Pete's account of the cave was that it was cold, wet, tight and the hardest trip he had ever done. He was of the opinion that if Chris hadn't been with him he would still be in there! Apparently Chris climbed out of the cave hot on a then, young Pete's heels, bollocking him to keep him moving. Knowing how tough Pete is it struck me that maybe this cave was actually quite hard! Fortunately for us, we made a base camp at a similar altitude to the cave therefore we were in a much better situation than Pete and Chris had been when they came up to 4600m from the 2004 Llapay base camp at 2900m.

The first thing that I noticed on my recce of the Puyo entrance was that the 2004 GPS data was wrong in it's elevation. The "old boys" had noted the entrance at 4570m above sea level which carried it to number 4 on the world's highest cave list. My Garmin (later confirmed by 2 separate Suunto altimeters and 2 more GPS) read the cave to be at over 4600m. The same was noted at Cueva Puyo. There was much discussion in camp that night about the Americans "blurring" GPS data after 9/11 and I did wonder if that could be true. Either way, the Puyo valley's caves and those in the same block to the north and west of the valley are certainly the highest explored group of caves in the world at the moment.

The entrance takes a decent amount of water and there are obvious gravel sinks all the way along the contact to the East and West of the tragedero. The 2 large holes to the right of the entrance had previously been confirmed to not connect to the large sink and the beautiful looking entrance shaft had been pushed to a series of smaller pitches and had been left at a drafting 20m.



Adam and Andrew in the beautiful entrance shaft of Tragedero Puyo. Photo Guillaume Pelletier

When I got back from Lima on the 15th October I immediately took the opportunity to join Guillaume in his push of the cave. The day before he and Adam had rigged the entrance pitch and had checked the "window" that Chris and Pete had noted in the main shaft. It doesn't go and we didn't agree that the main flow of water goes that way. It did seem, however, that the main way on is following the overflow passage as Chris had told me. I was well impressed with the 50m shaft - its big, full of ice and snow and is really beautiful. Guillaume had rigged way out of the water and had opted for a much different route to the old boys, a much safer route and not just utilising 1 spit in the attack of the shaft! Halfway down we added in a bit of a traverse and after some fannying around we reached the floor of the shaft. Guillaume had some survey catch up to do from the day before and wanted to check another lead he had found in the bottom of the shaft as well. I decided I would take the bolting gun and carry on rigging the cave alone.

Immediately away from the large main shaft the cave gets quite tight quite quickly. I dropped a 5m pitch and discovered the infamous tight pitch head that had nearly claimed Pete. It is quite awkward with 3 rigging bags and a gun but being acclimatised it wasn't as bad as expected. A few pitches, a duck and another tight pitch head later I came to the drafting 20m which turned out to be just short at 17m. It was drafting well and a few bolts later I was down. The cave seemed to open up again to similar proportions to the entrance and I noted another large avon coming into the system, it looked quite good until I saw the way on - a wee spiral into a slot that my body certainly would NOT fit through. Even better, the drop was into water. With my trusty Petzl hammer I began to enlarge the cave a wee bit but really didn't want to commit to a tight vertical squeeze into cold cold water alone. After some bellowing and Quebecois abuse, Guillaume arrived on the scene especially keen to hammer open the squeeze. I guess the thought was that if he hammered it hard enough then I would have to do the work of pushing the squeeze - thanks mate! So after some proper chest decompression (hard at that altitude!) my ribs and girly hips made it through, but there was no way my rib cage was going back the other direction... "KEEP HAMMERING!" The water below was freezing and my legs kicked through into an airspace that I could feel but couldn't get to. The now horizontal squeeze was under water. After some cave re-shaping I managed to get back to Guillaumes side of the slot and we decided that the cave was finished. Maybe somebody would siphon and Hilti cap the hole if it was elsewhere - but at 4600m in a remote Peruvian valley I don't think so!

The cave lost it's draft about 10m above the end. It is thought that the draft is heading back UP the larger avon. The de-rig was short and sweet and we left the entrance pitch rigged for a photography trip that followed the day after. Tragedero Puyo was surveyed to -122m, re assessed for its elevation and ticked off the list. Oh well, there was countless more shafts to go bashing in the area.

Cuevo Puyo 15/10/12 - 17/10/12 UTM 18L 0434257 8641730 4696m

By Rob Middleton

Cuevo Puyo was originally explored down 3 pitches by the 2004 team. They got to about -40m, running out of kit and leaving it wide open and looking tempting. On the 15th Oct, only my second day at altitude, myself and Andy began re rigging the system and exploring beyond. It was soon clear the previous team had been rigging on a budget (single spits anyone?) so a few extra bolts were added as we retraced their steps. The cave was indeed wide open, and a combination of 'Yorkshire rules', "it'll be all-right lad" and "technically 1 bolt here is fine" lead quickly to an impressive 110m pitch named So Long, and Thanks for all the Cave! where I unfortunately ran out of rope approx 20m from the floor at about – 150m. We returned satisfied, and well psyched keen for the continuance.

The following day, team Aussie descended, when AI and David attacked the system. Apparently they weren't so keen on our minimalist (but perfectly safe!) rigging, so many more bolts were added eating into the pushing time. They finally reached our limit and pushed beyond to the floor. They thought the cave looked like it was ending, but were quite tired at this point so decided to let a fresh team decide the next day.

The following day a large team entered the cave with the dual objective of photographing and exploring the end. Nick and Hannah headed straight to the bottom where they quickly decided it didn't go, while Guillaume, Andrew and Adam began photographing. Unfortunately the whole cave is quite loose, with the last 110m in particular being prone to severe rock fall from the shoot above. In the process of the photo team approaching the pitch, much loose material was dispatched and unfortunately Nick was struck on the head and hand, causing a bust Scurion and possible broken Pinkie, and a swift end to the trip. Nothing too serious, still he's keeping up his record, with an injury on every expedition. Well done Nick!



Bust Scurion and pinkie. Photo Guillaume Pelletier

Saturno Valley

By Rob Middleton

The Saturno valley was recce'd by part of the 2004 team, with a number of entrances found at particularly high altitudes. In 2012 Hannah and myself returned for a day trip, to help acclimatization and search for that elusive "highest cave in the world".

4 entrances were noted by the original recce with two being instantly dismissed. We explored the other two, and found 1 more of note which was explored to a conclusion. No known leads are left.



Saturno 2 - UTM 18L 0438465 8637458 – 4827m a small entrance drops 20m through a carcass to a draughting hole 0.6x0.25, too tight but could be dug. Fat man belay, and really muddy and grim without an oversuit!

Saturno 4 – UTM 18L 0438453 8637804 – 4850m really impressive rift ending in a gravel choke at -40m. Explored by placing hand bolts. Possibly the highest caving hand bolt placement in the world? And bloody hard work! The 4th highest cave in the world!

Saturno 5 – UTM 18L 0438368 8637438 – 4806m 7m deep shaft to a 5m long rift - choked

Alan Warild shaft bashing. Photo Nicholaus Vieira

Cerro Chacamachay

By Hannah Moulton

Arriving in Peru at the expedition mid-point, we were met with excited reports of an area of limestone littered with wide open surface shafts that had 7-10 second drops! Once in the field we realized that depth estimates were slightly skewed by pisco sours but North Puyo provided some very exhilarating surface bashing in awesome scenery. In this report I will attempt to highlight the most interesting caves.

The area stretched from the base camp at Abels farm to the col on the main road that leads down to Tinto. In order to cover this large area systematically, we hiked in teams of two or three logging entrances that required rope gear in order to be declared 'explored to full extent'. The terrain was hard going, a mixture between steep limestone, scree and dry river valleys crossing some of the highest terrain encountered on the expedition. The most significant features were the ridges of Cerro Rasputa and Cerro Chachamachay, at



Cerro Chachamachay. Photo Guillaume Pelletier

an altitude around 4800m. 10 days later we had covered the entire North Puyo area, with many shafts ending in frost shatter at between -20m and -120m. This required great British optimism and natural rigging techniques honed on previous caving expeditions to Crete.

Popcorn Cave, at 4775m above sea level, is ranked number 6 highest cave in the world at time of writing. It is a 45m deep shaft heavily decorated with popcorn formations.

Cueva Col, at 4757m above sea level is ranked number 7 highest cave in the world at time of writing. A horizontal phreatic tube in the very unlikely location on top of a col. We were expecting the horizontal entrance to drop into shafts leading down to the valley, but this was not the case. The horizontal phreas broke down to into too-tight bedding planes. Bones from puma kills lie in another horizontal entrance very close to Cueva Col.

North Puyo has been explored to its entirety with no remaining leads.

Caves of the Puyo valley

By Andrew Perry



The Puyo valley contains Cueva Puyo and Tragedero Puyo - both significant discoveries in decent speleogenic limestone. Although the Tragedero takes all of the water it is thought that Cueva Puyo is the main fossil part of the system.

At the top end (East) of the valley, no significant caves were discovered, but some time was spent recce-ing the lower part of the valley, over the col and back to the road. The highest cave explored was at 4805m right on the ridge, a significant vertical cave - Breathlessness was explored above the

Andrew. Photo Guillaume Pelletier

Tragedero. Several features were checked, none went any great way.

Guillaume and I headed over the saddle +300m to photograph and de-rig Tragadero Puyo. The previous day this cave had been sumped by Andy and Guillaume. After the de-rig, Guillaume and I decided to take a detour on the way home to cover off the area directly above Tragadero. Our route up the hill was probably a little ambitious, but made for some lively walking/scrambling. In my acclimatized state this was a lung buster. We leveled off just below the ridge and started heading back towards the saddle. Our effort was rewarded by one cave that definitely had a 3 second plus rock drop. Worth investigating! We left some gear to return there the following day.

Snow and lightening in the late afternoon was entertaining - only if you were not walking home in it. The next morning we headed backup to our newly found cave at a cracking pace. My lifetime breathing quota was halved trying to keep pace with the better acclimatized Guillaume. Hence, we called this cave, "Breathlessness".

Guillaume offered rigging rights to the cave. I decided Guillaume was better suited as he had vast rigging experience to my "this is my first expedition...I have only ever placed an anchor in somebody's back yard in Sydney" experience. A combination of two friends equalised to a hand drilled drop-in, backed up to a large boulder, was a rigging sexy wonder.

Guillaume dropped to the bottom with one redirect and called for survey gear.Not really what you want to hear, but he sounded a long way off. Being new to surveying, I started surveying from the top. The drop was 44m to a boulder strewn floor, sloping away for 10m at 45 degrees before it choked. There was another lead half way down the drop that Guillaume investigated that did not go anywhere.

What a great introduction to Peru caving.

Over the western col and back towards the road, a 50m pit was left and not checked, some more time could be spent in this area pit bashing but we feel that we exhausted the major features. The weather comes in quite quickly and a beautiful day can turn into a minor epic if you are not prepared for this!

Millpoc (Roadside)

By Andy McKenzie

Initially I had been impressed by the google earth image of the Puyo limestone massive, but when we drove North from Tinco I was more impressed still. The road switches back at the Western end of the block and all the way East lies a big, grey, swirling mass of potholey limestone. It truly is a cavers dream, add in the fact that you can drive to many of the holes and belay your rope off the roll cage or bull bars of the ute and it is paradise.



Jesse exploring new depths. Photo Guillaume Pelletier

Rob and I set out to show off to each other on the first day in the area. The first cave we dropped was Dead Lama pot - an impressive 74m shaft with ledges and a winding rift that kept the rigger entertained. The cave dropped to a gravel choke and the dead lama that gave the cave it's name. Rob jumared out into quite a serious weather event - 4 inches of snow had fallen in the hour or two that it had taken to explore the cave. Being young, tough and stupid we decided that in England the weather was normally BETTER than this, so we plowed on with the other 4 potholes that we knew we could rig "from the car." Tropicana Pot was next up, 2 holes which don't connect, the deepest of which was 30m and had a drafting fissure between boulders. Too fat to continue I climbed back out and we headed to Shattered Pot. After parking the car on a 60 degree slab of rock, we chocked the wheels and I dropped into the most dangerous cave I had seen for a while hanging death and frost shatter was EVERYWHERE! Rob was use to frost shatter from his exploits in Crete but to me this was something else. The cave dropped into a slotted rift which saw me 10m from the floor and out of rope. Due to the weather event Rob was sheltering in the car and couldn't hear me screaming at him. I decided that instead of prussiking 60m at altitude it was much easier for me to abseil off the end of the rope and down climb the last 10m to see what was round the corner. The rift twisted at a corner and I climbed down a further 8m pitch to the classic gravel end of the cave - something that was becoming slightly predictable in the area. After an exciting climb and de-rig we decided it was time to make haste and try to get the car back to camp before the snow got worse. The following few days saw some serious shaft bashing -14 caves being pushed in the block from the Puyo Col and the road. The most notable - in terms of

development and size was Suicidal Tendencies which was pushed initially by Dave until I went in to try and help (speed him up!). Dave had discovered a deathly gravel slope and had decided to make it worse by pulling it apart so ALL the rock would fall down on us and the ropes, so I joined him in making it more dangerous and we decided that we had to traverse out over the pitch instead. Andrew joined us and it was a regular Aussie fair dinkum bit of hard yakka caving that could have been anywhere in the Junee Florentine. The cave congregates several shafts going vertical, with numerous side drops, possible traverses to windows and a nightmare for a surveyer to draw up - we kept going down. We left a guessed 40m pitch and the cave rigged and exited for the night. With Alan replacing me the following day an extremely motivated and positive Aussie clan went back and dropped the 40 which turned out to be a 30. After only pushing the obvious depth lead they seemed to lose hope and interest in the cave and departed declaring it finished. With no other caves found that day the team were motivated to leave the area and head off to another base camp and a change of scenery. Nick passed a few entrances on his walk to rescue Jesse one day, one was noted as a 50m pitch, the others were more of the same in the stretch of contact from the col to the road. This area is especially interesting to me, if you keep pushing shafts there is a good chance you may hit a master system that surely has to come through the block somewhere with all the water from the valley. However, our 10 day effort in different parts of the block only turned up frost shattered pits.



Self portrait. Photo Guillaume Pelletier

Cerro Shacoc Machay

By Nicholaus Vieira

The team moved from the North Puyo camp after doing a thorough job at combing the area to our new camp at Laguna Cincuenticuatro. Andy, Guillaume and Nick had found a good campsite off the road, with easy access to water. After camp was set up we had a team out reccing the area, providing a to do list for the following day.

On Cerro Shacoc Machay:

Up on the Cerro itself, a number of collapse features were noted, and all the "going" shafts end in the typical sediment/breakdown chokes we have become accustom to finding. It would seem that if you find a shaft or, series of shafts, extending below -150m from the surface you may have a chance of getting into something more extensive than the choked shafts we have been recording. The most notable shaft explored was PLA12 (Megadeath) at -76m.

The Water from the East and Camp:

Two teams were out and about checking on some of the leads found the previous day and finding new features themselves. One of the most notable things found was the sink PLA10 (Whanau Tomo) which

produced 150m of streamway passage ending in a sump with a possible bypass through an impassable squeeze. PLA10 is the only "open" cave in a line of sinks, the most juvenile (currently taking all the water) is PLA6 (Yorkshire dig) which was heroically pushed and dug at by Rob and Hanna, producing only 10m of total passage. Other sinks collecting the water on this side of Cerro Shacoc Machay are PLA8 a very short choked sink (the furthest downstream in the line of sinks) which is dry except for during flood events. Laguna Cincuenticuatro and its tributaries contributes the majority of the water sinking in PLA6 and the other noted sinks on the contact.

Water from the other lakes:

Continuing downhill, from PLA8, you arrive at a large depression with a very obvious sink taking all the water from Laguna Mancacocha (the largest sink in the area). This is PLA9, and is a great dig project taking the largest amount of water in the area. Also within this large depression, containing PLA9, there are two other note worthy features found. One is PL3, an impenetrable sinking stream, and the other is PLA15 a choked/ too tight "wet weather" sink that will require chemical persuasion to explore. No other note worthy features were found in the section of Block A.

Resurgences:

The Quebrado Millpo was examined for a main resurgence, but no resurgence with that amount of water was found. The only resurgence found PLA16 matches "roughly" the amount of water sinking at PL3, and could be dug into using tools. Unfortunately a resurgence(s) discharging the amount of water sinking at PLA9 and the other sinks of Cerro Shacoc Machay has not been located. PLA17 (WGS 84 18L 0432576 8664053 elv. 4191m) was the furthest point travelled down Quebrado Millpo during the recci trips. *Conclusion*:

There are hints of a "master" cave of sorts but there will not be an easy way in, if there is one. Cerro Shacoc Machay would be a fantastic caving area anywhere in the world that would produce numerous discoveries, and education but with the limited time afforded to expeditions it is unlikely to yield the results hoped for without a lot of hard work. The area is perfect for teaching about cave and karst development, as it has displays many of the numerous "text book" lessons such as migration of sinking streams etc. It was a joy having trekked over Cerro Shacoc Machay, and learned from it.

Lago Pucacocha camp area

By Jesse Martin

This zone is about 5km as the crow flies from the camp we set up in Cerro Shacoc Machay (block "A" to expedition members). The contact in this zone is between a white type of sandstone and fairly speleogenic limestone. The bedding of the limestone in this relatively small area had a general incline of ~20-30 degrees. There are numerous sinkholes along (the presumed) contact zone in the bottom of the valley, extending for the entire length that we walked. Given the amount of sediment in the area it was not unexpected that most of the sinkholes where blocked, though some contained rounded boulders made of igneous rock of glacial origin. Along the ridge almost nothing was found (other than mining survey marks). However, a line of entrances was found near the top of the mountain following a fracture line.

One significant cave was discovered in that line of entrances. It dropped almost completely vertically through the bedding planes to a depth of ~100m. The way on at the bottom is blocked by huge breakdown, but large standing passage can be seen to continue at the angle of the bedding plane through the boulders. Any future trips to this cave would require micro-blasting gear and some tools to move boulders. A strong draft was detected higher up in the shaft but it is lost in the large room at the bottom. It is still possible that there is parallel passage along the shaft that bypasses the breakdown. Numerous nooks that bent out of sight lined the shaft all the way to the bottom. The cave was surveyed by Guillaume Pelletier.

Of the sinks in the valley, three are promising as dig projects with one in particular maybe requiring little digging. For the purpose of a future expeditions with limited time they can be ignored. One sink did continue as a cave for a significant distance. A surface stream was still sinking into it, whereas the other sinks have periodic flow. There are numerous remains of dogs, sheep and other animals scattered along the entrance floor (there is a drop of 5-7m), along with several manmade items that were presumably discarded. It was pushed by Dave Taberner and Al Warild. Ultimately the cave sumped in sediment. No significant draft was detected.



Bolt climbing in El Chupedero Photo Guillaume Pelletier

Cueva El Chupadero

By Nicholaus Vieira

The Cave

A recci team first noted the cave entrance on October 20th and had a quick wander down 60m of passage, noting that the cave had an inward draft of air (sucking), and it also took water.

On October 27th, 2013 the first survey team entered the cave and surveyed from the main entrance sink (containing 3 individual entrances that all linked to the main passage) through 120m of large passage which terminated in a pitch. The ground was very slick (common with igneous rocks), so the pitch was left for the next day. On exit a side lead (2m Climb) was investigated which through some squeezes yielded a wonderful passageway that kept the survey team busy for 4 hours! At one point all members had an attempt at a tight squeeze which was only passed by the determined efforts of Adam (which it was coined Adam's rib). Some large rocks were subsequently moved to allow passage of the larger members of the team. continuing up the passage ended at impassable breakdown with the smell of the surface in the air.

The next day saw two teams enter the cave, one was sorting the side leads in the Main passage, while the other

went to the pitch found the previous day. Some miscommunication occurred between the rigger and the

survey team and by the time the surveyors arrived at the bottom of the pitch the rigger was nowhere to be seen.

Assuming the rigger went downstream the surveyors built a tie-in station for the following survey team of Andrew and AI, then began the survey of the downstream passages. After killing one of the two downstream passages the survey team reunited with the rigger who went Upstream! He had just scooped 80m or so of passage. The remaining downstream lead was explored and mapped including a squeeze through a wall of mud, both downstream passages ended in mud and gravel sumps (impassable). Upon arrival back to the tie-in station the survey team met the other which had began surveying upstream, the rigger explained what was done, and apologized. The upstream team continued surveying while the downstream team packed up to leave the cave, when a lead in the ceiling was noticed. After a bolted traverse the survey tram continued into a large room followed by the muddiest passage found on the entire expedition, which was left with a passable but irreversible drafting (out) squeeze. Another climb was noted. The upstream survey team up valiantly surveyed the scooped passage which ended entering back to the Main passage near the entrance in the ceiling.

The next day saw a team enter the cave to do the climb noted the day before, and to take photos of aid climbing underground. the climb was a success, and curiously the passage led them back to the Main passage near the Entrance. A climb noted was left for the following day, as the drills battery was dead.

The final survey day saw two teams in, one to survey the leads left from the first day in the original side passage. And the other team did the final climb, survey and de-rig of the cave. Cueva El Chupadero is currently 770m long.

The cave had many interesting features in it suggesting a complex "upbringing". As an example the "theft in progress" passage (the original side lead) contains roof pendants, suggesting at one point the passage was filled to the ceiling with sediments. There was a lot of ingenious intrusive dikes as well, confining where the water could drain. All of this with the faulting makes Peru caving very interesting from the geological point of view.

The Area

There were a few recci trips into the surrounding area but no caves or pits of note were discovered.

The Tomas Block

By Andy McKenzie

At Alis township, the Rio Alis unites with the Rio Canete to form a stunning river valley that is celebrated by kayakers and white water enthusiasts from all around the world. To cavers, both valleys get more interesting up stream of their concurrence. On the drive up the valley we were all stunned by the limestone gorge that meanders its way upstream from Llapay to Alis and onto Tomas. The road from Alis to Tomas is particularly impressive, with kilometer high cliffs of that wonderful red grey limestone shooting up vertically from the valley floor. This was obvious cave country and we all knew it, although one could easily amuse themselves for several lifetimes just climbing the amazing lines through the cliffs.

At Alis, a few known resurgences for water from the East rise in the river bed. This is thought to be the water from Sima Pumacocha. Up valley from here is the beautiful little town of Tomas, where the valley splits again. From the north west, the Rio Shinua meets the other runoff which comes from the East. Jesse and I decided to investigate the Shinua valley on the day that I drove him down from base camp to try and fix his altitude problems. With constant, imminent threats of the Hilux wanting to roll at every turn the journey turned out to be an impressive 4WD epic, to say the least.

Immediately above Tomas we encountered impressive speleo features in the form of cave entrances and visible resurgences, the limestone cliffs of the Alis valley carried on - perhaps even more dramatically! After speaking to a local farmer we gathered intelligence that there was many shafts (and pumas!) to the North and West above his farm. One look at the completely vertical rock/scree ascent and I was convinced there must be easier access to the limestone plateau some 1200m above us. I would have a hard time convincing even the Canadians that access from this side would be possible!

Nic, Guillaume and I pored over the topo and saw that to the North of Sinhua farmstead there was a white road over Cerro Tapo - 4600m. In theory that road would give us a relatively easy traverse along the contour to the plateau that we were interested in. We decided to drive around to Huancaya and find the road from the west. A 3 day trip with light packs and lots of energy bars was planned, with the quiet smugness of knowing that with the road over Cerro Tapo, we wouldn't have to hike to and from 3500m to 4900m to go recce-ing, in one day! Little did we know what was in store...

After spending the first day faffing around, getting lost, eating trout, drinking beer and chatting to some road workers (turned out to be 3 hot sisters) we decided that in fact, the white road over Cerro Tapo did not exist. In getting lost and taking a road 5 km to the north we drove up through the Puricocha valley and started to find some leads. The first of which is a decent looking river sink that we drove past on our left. Swearing that both Nic and Guillaume had completely missed it due to their attentions being held by the limestone on the right, I cursed them loudly, forced a handbreak stop and was out the door before the car had stopped moving. Unfortunately, my haste has always flawed my intellect and reason and after 2 steps into the thorny grass I was crippled by my lack of shoes... Nic was immediately ahead of me and straight down the hole, one might say like a ferret up a drainpipe, with Guillaume not far behind him. Cursing more, I retreated to get my GPS and log the find. Nic came back whooping and dancing shouting "She sucks, she goes!" The cave was instantly branded the sucker (El Chupedero) and we moved on.

We crossed our highest pass for the vehicle yet at 4800+ and kept driving East into yet more limestone country. The scenery through here was sensational. Around Cerro Fierro Mina we found lots of interesting dolines, sinks and features and noted the area as one of speleo interest and we moved on.

After some 4 wheel driving along an abandoned railway escarpment we rejoined the road and headed towards Cerro Shacoc Machay. With the weather turning and the light disappearing, we recced a sinking river and noted some other interesting cave landscape above it, and set our camp next to a lovely lake.

On day 2 we decided that we would have to walk up to the Tomas plateau from Huancaya, so thought best to complete our circuit by passing back through Tinco and Tomas and driving back around the block. This would give me an opportunity to show the lads the valley above Tomas that Jesse and I had seen and go back to question the farmer with a decent spanish speaker instead of my enthusiastic yet limited vocabulary. The lads were suitably impressed by the valley walls and the 4 locals confirmed that there were big vertical shafts above the valley... We ate, drank and camped in a side valley 5km north of Huancaya and on day three, set off with water, food, GPS, field compasses and lots of enthusiasm on a pretty epic day out. We left the truck by the road at 3550m and hiked up a steep gorge to 4300m where we made a meet back waypoint and all went our separate ways. We had 6 hours apart and we managed to cover almost every part of the block. I took the Eastern side, and Guillaume took the centre of the block whilst Nick hugged the western side. I think we all managed to bag a peak or 2 around 4800 - 4900m during the course of the day. When we met back at the grassy knoll we had agreed on at 4pm, Guillaume and I had no features at all to report, with no visible limestone even directly above the farm in the valley. Nic had several entrances and shafts to report. He had been busy logging entrances left right and center and had even found some interesting Inca remains in a well worn cave around 4600m.



We decided that enough was enough and we should return to camp to report to the rest of the team. Whilst El Chupadero was being pushed a week or so later, I decided I wanted to take a small team of 3 and go back to the entrances that Nic had discovered. The problem was pack weight and the height gain needed to be made in one day to make a cave bashing trip worthwhile. We would need 1400m of rope, 2 SRT kits, bolting gear, camping gear, food, enough rum to numb the pain of the ascent and 3 days to get in, go caving and get out. Oh, and 2 other guys stupid or enthusiastic enough to go back up there carrying 25kg packs.

Nics initial track log from the recce. The red dot in the North East is Tomas

Andrew Perry and the token Kiwi were the obvious choice!

The walk in was horrible, but I wont go into the details... we set a bivvy 30m away from Nic's Inca cave and collapsed into our bivvy bags to ingest copious amounts of liquid (in its many forms) and get some sleep. The following morning, after some strange dances in leggings from Adam and Andrew, we set off to drop some shafts. We hit several 15-25m shafts before we found Finger Pot. Finger Pot turned out to be an amazingly beautiful shaft of 58m depth just above another 2 entrances. Its frost shattered entrance making the rigging ever dangerous, but care was taken to drop to the bottom and discover a small drafting hole, possibly diggable, but not today. Below this entrance Adam and I hauled a tonne boulder from another entrance and Andrew set off to explore the wee cave. It didn't go far... 200m away we found the best lead of the day. As the weather set in and the dark night arrived Adam began to rig The Phillips Head. 3 siamese shafts converge to make an impressive pothole which used up all of our rope. Not being deterred by this Adam managed to climb down into a rift and push the cave to its conclusion whilst we shivered and swore at



View from Puna Mach'ay 4862m above sea level Photo Andy McKenzie

the sky on the surface. The shaft was nearly 100m deep, with a mid level traverse and a winding rift below it. It kept us busy for several hours. The walk back up to our bivvy site took us through some cliffs and over a pass, it was quite beautiful when the moon eventually came out.

That night we spent a wet one in our bivvies to arise to glorious sunshine and the promise of beer in the evening. With our hopes high we packed up camp and traversed East and up an amazing scree slope to go finish up Nic's list. The main aim was to hit the 15m by 8m entrance that Nic had noted high on a ridge - with no time left to negotiate it and with a storm a

brewing he had left an approximate location for us to go and check. On the way up to the ridge we saw a big deer sitting on a peak at around 4850m - this must be the meat that the local Pumas feed on - aside from impressive eagles it was the only wildlife that we had noted to date. Up on the ridge I waited for the guys as Stairway to Heaven pumped through my headphones - the view was astonishing and I had quite a moment taking it all in! When Andrew arrived we decided that we must be near Nic's lead so we both traversed opposite ways off the ridge to see if we could find anything. Annoyingly there was an obvious big entrance right at the top of the ridge and across a really bad scree/rock traverse. As Andrew disappeared into the impressive cave entrance that Nic had noted I started the terrifying climb up to my entrance. The rock was a disaster once again - frost shattered and battered it fell apart as I climbed. The entrance was 7m by 5m and had a great view looking back out. I investigated 70 metres of passage going in opposite directions, noted that it was the highest cave explored by the team to date and decided he was lonely sat on the ridge and decided to start a higher traverse out towards the entrance. We met just below and both marveled at the view. We called the cave Puna Mach'ay (High Valley cave) and decided to head down to the pub. What a trip - exhausting but well worth it - 3 days I think all 3 of us will remember for a long time...

El Desnudador (18L 412318 8657101) alt:3782 By Rob Middleton



Nic exploring El Desnudador. Photo Guillaume Pelletier

This cave was a real surprise to everyone involved. It was found by mistake, in an unexpected location, and does not have a limestone wall in the whole place. Despite, or rather because of this, and its exceptionally aqueous and sporting nature, the cave was a real treasure late on in the trip. The first explorers also ended up doing it in the nude!, as they had no caving gear and didn't want to get their clothes wet, but were just too excited to wait. Truly unique!

El Desnudador was found in a break on a travelling day between areas. An entrance had been spotted on the far side of the tufa dams on the Rio Canete river while driving past and it was decided to have a quick look. On the walk down Guillaume, Nick, Hannah and Myself wandered down a gully, and were really surprised to see an entrance at its base where it joined base of one of the tufa dams. A healthy stream was flowing in the entrance, which was unusual having granite bedrock and a tufa roof. Hannah watched while the three men/ idiots stripped and headed into the cave. It consisted and numerous climbs and pools, and simply got wetter and wetter as more and more spouts appeared from the tufa dam above. We explored

about 100m of truly awesome sporting cave, before returning to relative warmth above soaked but well psyched. (After warming up, myself and gulliume took a swim across the dams to find the entrance on the other side. It went nowhere, just an overhang, though we did learn that swimming in snowmelt at 3500m is a really bad idea!)

The following day Guillaume, Hannah and Myself return to the cave to survey, this time equipped in caving gear. The caving was as awesome as ever, though keeping the Disto X dry was a constant battle and finding shots clear of the spouts proved difficult. We reached the point explored previously, and added a handline to a sporting climb. This lead down to a fast flowing canal which appeared to sump round the corner but could not be sure. However everyone was now baltic so a hasty retreat was called. We were pleased we turned round when we had as when we reached the surface the previously dry gully was flowing, and it was pissing buckets!

The following day a team of 5 entered the cave to finish it off and take as many photos/ videos as possible. The cave was sporting as ever, and the new blood Jesse and Andrew were suitable impressed. At the end a line was belayed and a couple of people floated off down the canal in search of the continuation. This was definitely sumped and photography began. The results are below.

(N.B. A surface survey was carried out. It put the end of the cave 100m into the middle of a 20m high tufa dam, and 15m low

5. Surface investigations

Meeting with Chupaca council and Yauricocha area recce

By Andy McKenzie

On October 20th, we were summoned to the village of Lanca, to report our findings and discuss them with the local council, who seemed excited that we were visiting the area, as tourists have never been there before. Senor Juan Escobar made us feel most welcome on arrival to the village of Lanca where the local monthly committee meeting was being held. After a brief explanation of why we were in the area and what we had found, Juan said we were free to head back to camp to carry on our investigations and gave us a permit to go anywhere in the area. This was a great connection to make should anyone wish to return to the Yauyos district.

After a trout lunch and some epic four wheel driving we discovered the route back towards Sima Pumacocha, the plan was hatched to drive back across the plateau and see what we thought of the area. On the route out we got a puncture so had to drop all the way down to Llapay where the only mechanic is located. We drove past Sima Pumacocha, noting a few areas that would be worth a look and got the tyre fixed for a couple of Soles in Llapay.

We drove back up towards the Yauricocha mine where a bad road heads in from the south. Some incredible climbing lines were discussed and we eventually crested the col and dropped down towards the mine. The site resembles something from Russia during the cold war, with bad weather looming we were dismayed to find a locked gate blocking our passage through the site and 2 hours back to camp. The alternative was a 4 hour round trip that we were not looking forward to in the dark!

After some lengthy negotiation with the security we were escorted through the site and back down to Tinco where we could head back to base camp. No limestone of substance was discovered and generally the feeling was that there was not a lot more recce to do between Yauricocha and Tinco. The only place we felt worth a look should an expedition return would be to the hills directly north of Sima Pumacocha.

Upper Canete Recce (Tanta to Vilca)

By Nicholaus Vieira

We were off with overnight kits and Adam behind the wheel. Driving to Tanta to begin a recce of the Upper Canete (from Tanta to Vilca). The plan was to have Adam drive us up and drop us off at the end of the road. Then he would go back to camp, and meet us in Vilca the following day (Adam was recovering from a football match with the locals in Huauncaya on the previous night).

The only road in to Tanta comes in from the north and does not travel up the Canete Valley past Vilca. The drive down into the upper Canete valley (10 km from Tanta) had some good looking holes in the cliff faces, the usual tortured folding we had come accustom to and a few wild Vicuna. Once we arrived into the Canete valley we turned toward Tanta (4 km from los Banos de Incas, Vilca side) it did not take long before we came across something very tantalising. The whole upper Canete river sinks, this we passed to continue to Tanta leaving it to check on our return. From Laguna Paucarcocha to Tanta there is little interest in the way of caves (Laguna Paucarcocha is a manmade lake). We did not travel beyond Tanta.

We returned to the Canete river sink (P Tragadero) to properly recce the area. During floods the "Upper" Canete floods 6m above the current levels (at the sink) and runs down the overflow canyon until it is captured in the numerous smaller sinks within the canyon. Once happy that we thoroughly checked out the Canete river sink. We continued along the goat track of a "road" in the Hilux toward Vilca. The water we were seeing below the sink was coming from a valley to the south, not from the Tanta area. We continued down the valley to where we had to ford the river in the Hilux, which is also the spot where we noted a good size resurgence entering into the Canete (is this the resurgence for "P Tragadaro", the Canete river sink?).

We finally got to the spot where the "road" ended. This is where Jesse Martin and Nicholaus Vieira parted with the boys in the truck and continued on down the valley on foot (due to the challenging nature of the drive it was decided that two people in the truck was best for the return). We noted the large Tragadero on the map (TRSNK). This would be an interesting area to check out again, but the river sinks for only 100-200m and there was no visible dry way to follow it. We continued down the valley in failing light noting only one of the few capped sulphide springs we came across (the water was luke warm and had the typical sulphur smell to it). Possible sources for all the calcite that has formed the multiple tufa dams that stretch across the river lower down, but this is speculation.



The track log through the valley. El Desnudador's entrance is just south east of the image.

The Tufa dams first begin to appear 4 km or so upstream of Vilca. This would be worth hiking to again as we passed through in the raining dark. You may find other caves similar to Cueva El Desnudador (a cave in secondary calcite deposits). One last short sink was noted before total darkness enveloped us like the rain (SHRTSINK), this is doubtful to produce much, but you never know until you go.

Arriving at Vilca, we stepped out of the rain to get a warm meal, and in the process missed our ride back to camp. We bivvied for the night and walked the few remaining kilometres in the morning in time for breakfast at camp.

6. Equipment

All expedition members used the 'frog SRT' system.

10mm drop in anchors were used for the main rigging, although a few spits and through bolts were used too. 13 concrete screws were used for rigging pits and shafts, these proved to be an excellent addition to our bolting rack, one which we all felt we would used in the future. These were re-used, re-used again, and then a few more times!

Scurions, Petzl Ultras and home made lights were used for cave exploration.

Various photography setups were used, painting with scurions and flash guns were used to light passage. One member carried a GoPro which proved to make some excellent film and photos.

2 Toyota Hilux's were hired for the duration of the trip - these cost the expedition \$85USD a day, it was suggested by a contact in Lima that the going rate was more likely to be \$70USD per day should we have

had a better contact. The Hilux performance was outstanding for the duration and hard terrain that we encountered.

7. Survey standards

Over 200 caves were explored by the expedition and all were documented and put together in an excel spreadsheet. We surveyed where possible - the majority of blind shafts got at least a grade 1 - grade 3 BCRA survey. The longer and more complicated systems were surveyed using Palm technology, Disto X and Suunto Tandems and were surveyed to BCRA grade 5a - 5c.



Hannah . Photo Guillaume Pelletier

8. Travel and accommodation

In Lima we used the Kokopelli guesthouse as a base. http://www.hostelkokopelli.com

We also used The House Project which we found to be more suitable for our purpose - they specialize in catering for adventure groups. <u>http://www.thehouseproject.pe</u>

Whilst in the field, all members camped in tents, bivvy shelters or slept in vehicles. Whilst on the road we used local hotels/guest houses for comfort, speed and ease of not having to unpack the trucks to find camp gear.

9. Medical report

The expedition had more than its fair share of medical ailments. We owe a big thank you to Doctor Brendan Sloan in the UK who made himself available at all hours for telephone advice. We would also like to thank him for his help in getting the medical kit together.

Every member of the expedition had altitude acclimatisation problems, ranging from slight dehydration or mild headache to more serious symptoms resulting in having to be evacuated to a lower altitude. The key was typically to drink lots of water, acclimatise slowly and monitor your condition constantly.

One member made the choice to not acclimatise to the normal schedule and jumped from 3000 meters to a height of 4800m during the day and then camp at 4600m for the evening. Symptoms of Acute Mountain Sickness ensued and the team decided to evacuate the patient to a lower altitude. The caver spent the next week in hotels lower down recovering and had to begin a much stricter acclimatisation process again. Typically we all tried to stick to the 500m a day rule, although we certainly pushed that on a few occasions. Good acclimatisation saw us 4 weeks into the trip and feeling great at heights of up to 5000m.

A mysterious flu like bug plagued many team members which exaggerated altitude problems and kept people inactive for a few days. Symptoms were constant coughing, running nose, headaches and feeling weak. Flu pills, water and paracetamol were used to treat symptoms. In one case codeine was used to treat a severe migraine.

A falling rock resulted in a caver breaking their little finger. The finger was strapped up, a few swear words were administered and the caver kept caving. No pain relief or further treatment was needed.

Sickness and Diarrhoea was common given the close living quarters and lack of sanitation and clean water. This was treated with sickness tablets (extremely expensive in Peru) and standard Imodium tablets. The main side effect was dehydration which was already a problem given the altitude. Diorrolytes were administered. Water was always treated with iodine or a Steripen.

Altitude induced panting caused some cases of dehydration resulting in headaches and bad sleeping patterns. We were careful to check each other for water intake and people took diarrolyte sachets.

Some extreme sunburn resulted in a caver being inactive for 3 days. Coconut oil was used to treat the burn and the patient was monitored for de-hydration. The team were careful to cover up and use sunscreen.

Various cuts and grazes were treated with betadine. One burn from the camp stove got a little infected and was treated with antibiotic powder.

Dealing with Acute Mountain Sickness (AMS) and High Altitude Pulmonary Edema (HAPE) *By Jesse E Martin*

After having spent much of the last 1.5 months at elevations of 1500-2500m I assumed I would at least be reasonably resistant to a certain amount of elevation gain. I have in the past gone as high as 4100m (albeit, only for a day). My eagerness (and curiosity) to reach the Peru caving expeditions base camp at 4500m caused a significant lapse in judgment on my part despite warnings from other expedition members.

I arrived in Lima on October 13th, elevation 70m. Spent the night (drinking Pisco Sours). Headed out in the morning with other newly arrived expedition members and slept the next night at 3000m (no problems). The next day we all headed to base camp at 4500m and definitely experienced symptoms from the altitude. These included lethargy, after time headaches, rapid breathing and increased heart rates. All of which were expected, and the plan was to descend to a lower elevation (4000m!) to sleep.

Because my symptoms did not seem too extreme, I made the ultimately bad decision to spend the night in base camp; a 1500m elevation gain from my previous night. The official recommendation is to sleep only 300m-600m higher than your previous night above 2400m (though a majority of people seem to be able to start from 3000m-3500m). In the night my breathing would slow (or stop), causing me to wake suddenly to breather more. My heart beat was loud and fast (blood rushing through ears) and the headache increased. During the second day lungs started to hurt slightly and I developed a worsening cough. I decided to stay one more night to see if my symptoms improved.

The others who had slept at 4000m meters were mostly just having to deal with lethargy, slight cough and mild headaches. Whereas my symptoms continued to degrade. This included a worsening cough, headache and strange pain in my lungs (like they were a balloon someone had tried to pop). I could feel every passage inside my lungs. On the 3rd day at 4500m it was decided I needed to head back down to lower elevation immediately as I was experiencing severe AMS. I spent most of the next week in Tomas at 3500m with brief visits by vehicle back to 4500m. However, going back above 4000m only worsened my symptoms, even if only spending a few hours.

On the last exposure before deciding to make my own way back up to elevation on foot over the course of a few days, I experienced even more severe AMS. Symptoms included extreme feeling of weakness, chills, uncontrolled shivering, pounding headache, extreme shortness of breath and an almost bubbling pain in the lungs. The climax of these symptoms occurred for 30 minutes and we were already in the process of trying to take me back down (only came up to 4500m to grab gear I would need to walk back later). Below 4000m symptoms started improving.

At 3500m, most symptoms would abate almost completely after 1 to 2 hours. However, the pain in my lungs only improved marginally and the cough was incessant. Even after several days my lungs still did not feel completely normal. They did however improve enough that I felt comfortable walking back up to 4000m after several days recovering in Tomas (drank lots of Mate de Coca, which stimulates your heart rate). Spent 1 day and night in Tinco. After Tinco I walked over the highway pass at ~4800m and also hiked over two mountains, also at ~4800m. Symptoms were greatly reduced from before. Lethargy was still present; expected as it takes 1 month or more to grow enough red blood cells. Only a mild headache when I exerted myself. Lungs still were not right but they did not get worse. Cough.

Though my symptoms did not generally get worse and my energy levels increased, my performance as a caver for the remainder of the expedition was substantially reduced. I was able to hike on the surface but the cave environment often sent me into fits of coughing that made progress difficult. Most likely this was influenced by dust and other materials in the cave air. It would appear that I likely suffered from both AMS

and a significant case of HAPE. Do not underestimate how disabling the cough is. Your rib cage feels like it is going to crack (and it has, for some high altitude climbers).

Writing this report 1.5 months after the end of the expedition (sitting in Patagonia at a mild 700m) I am just now fully recovering from all of the symptoms. I was at altitudes above 3500m for most of 35 days (including non-expedition time). My cough actually worsened when I finally headed below 1000m permanently, encouraging me to seek medical attention in San Carlos de Bariloche, Argentina. Nothing was found to be wrong in the X-Rays but anti-biotic pills and nasal spray were prescribed as a precaution. My lungs have felt %100 normal since November ~10th, but the cough only really stopped December ~12th. That is nearly two months experiencing at least one symptom of AMS.

Pay attention to altitude guidelines and never hesitate to drop to a lower elevation.



A very ill Jesse in camp. Photo Guillaume Pelletier

10. Surveys

Conga - Guillaume El Chorro - Dave El Desnudador - Guillaume



Alzado





Cueva Chupadero Cerro Champapata, Yauyos, Peru

Profundidad: 91 m Largo: 720 m

X: 416031 Y: 8662588 Z: 4623 WGS 1984 Topografiado con Suuntos, Disto y Auriga 27-29/10/12















Pzi.



11. Mountaineering

Cerro Caja Real, 5002m Summit GPS UTM 18L 0429356 8654398

On 26/10/12, Robert Middleton and Hannah Moulton climbed what are believed to be two new, or newly reported routes on Cerro Caja Real, Yauyos, Peru, while part of an international caving expedition to the area. See <u>http://peru.commscentral.net/</u> for more details of the expedition.

The peak is granite, however there is much loose rock, meaning that both routes are serious despite their low technical difficulties. Both routes were climbed in summer condition, using rock gear and moving together.

Cerro Caja Real South Ridge - 400m long (80m ascent) Vdiff / AD -

Approach from the East, up the left fork of the main gully South of the main peak. Start from the Col (GPS UTM 18L 0429358 8654200).

Climb the first gendarme with interest, then cross the next col and head right of the ridge crest avoiding the worst of the loose rock. Follow the easiest line, then eventually head left over the crest as the ridge sides steepen, to locate a steeply descending chimney crack. Follow easy slabs for 80m to the summit.

<u>Cavers Crawl</u> – 250m long (100m ascent) Diff/ PD+ (used as descent route)

The prominent ramp below the South Ridge on the East side heads at constant 40 degree angle from the right fork of the gully, straight to the summit slabs. A couple of awkward steps are encountered as is much loose rock. Can be used in descent.

The peak has certainly been climbed before as a cairn was present on top, and our two ways chosen are fairly obvious, though probably not the easiest, so may have been climbed previously, although I can find no reference to this.

Note: Various 5000 metre summits were made by team members, these were all located in good locations on recce trips or next to camps.

12. Sponsors/supporters

Thank you to the people of Peru for having us and sharing your wonderful country, caves and customs with us.

The Mateo family at Jadibamba and the Marin family in Chupaca were especially welcoming.

The committee and local people of Lanca, Laraos, especially Senor Juan Escobar G - the head of the committee for making us so welcome.

Victoria Vilca Alfaro, the wonderfully helpful and welcoming Guia Oficial De Turismo Cajamarca, and her amazing family who looked after us in Cajabamba for a few days.

The expedition was completely supported by members of the previous expeditions; they gave knowledge, support, leads, and better geological direction than we had in our team, they also let donated a huge amount of information that they gained from their research and trips that any big expedition requires. This was particularly evident when we wrote this document. Lots of the information was stolen from the 2004 report

The expedition would like to thank Les Oldham in Lima for his continued support, encouragement and geological contributions.

Jhon Human in Lima, for his excellent positivity, generosity and endless leads. Also for showing us how to drink with Peruvian style!

David Evans in Lima for his correspondence, geological interest and co-operation. We appreciate your patience and are sorry for taking you to a death metal bar in Miraflores on the first night that we met you. First impressions and all that...

Snablet (NZ) for his enthusiasm, sharing of information and feedback, and first inspiring this adventure.

Doctor Brendan Sloan in the UK for providing us with medical advice, support and a specific to caving first aid treatment plan.

Nick Hawkes (UK) for his support and geological contributions in the editing of this report.

Steve Knutson (USA) for their valuable contributions

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Martin Holroyd in the UK for editing this journal

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Australian Climbing Anchors for their great deals

Starless River for their deals and excellent delivery times

Société québécoise de spéléologie for their loan of a Disto X to the expedition

13. Further reading

For early Yauyos expedition reports, please visit their website at <u>http://members.shaw.ca/pumacocha/</u>

14. Conclusions

We felt that it was a shame to leave the area around Conga mine as it holds some good potential - especially around and above the Celendin gorge. Political tension in this area is strong (see **¡Conga No Va!** report) and it is advised that this is rigorously researched and planned before appearing in the area.

We feel that the main areas that were investigated in the Yauyos district were generally closed of leads after our exhaustive efforts.

Leads around the Puyo Valley were all pushed to their extension and the surrounding limestone areas were also exhausted.

We did not feel that it would be worth pushing out to the East of Sima Pumacocha as we saw little to no limestone through this area. It would certainly be worth investigating the area immediately north and south of Sima Pumacocha lake. Finding a higher entrance to the system is extremely viable.

The other areas provided some great caving trips and some interesting field work but were also completed in the leads that we found.

The upper Canete still holds a keen interest for some team members. Other cavers who had previously taken a brief look through the area advised us that it was worthy of investigation and their suspicions were confirmed. The main river sink(s) and the huge resurgence are certainly great leads, an underground potential of over 10km with the exciting prospect of tributaries contributing to a more complex system is evidently possible. We also believe that the unique tufa cave that was discovered is likely not to be the only one of this type in the upper section of La Canete - this should provide some interesting and undoubtably exciting wet caving to interested parties.

15. Expedition members -

Andy McKenzie - UK Alan Warrild - Australia Nicholaus Vieira - Canada Adam Haar - New Zealand Guillaume Pelletier - Quebec David Taberner - Australia Rob Middleton - UK Hannah Moulton - UK Jesse Martin - Canada Andrew Perry - Australia

16. Appendix

The team has researched these lists to the best of their abilities, and acknowledge that they may be incomplete, we encourage knowledgeable cavers to contact us with any corrections or additions - andy.a.mckenzie@gmail.com

South Americas Deepest Caves

- 1. Sima Pumacocha (Peru) -638m
- 2. Gruta do Centenario (Brazil) 484m
- 3. Millpu de Kaukiran (Peru) -407m
- 4. Gruta da Bocaina (Brazil) -404m
- 5. Sima Aonda (Venezuela) -383m
- 6. Sima Auyan-Tepui Noroeste (Venezuela) -370m

The Worlds Highest Surveyed Caves (November 2012)

Note: Mountains are often filled with cracks/holes that may be interpreted as "caves." The highest known cave in the world is thought to be on the Rahkiot Ridge of Nanga Parbat in Pakistan at 6645m but this has never been explored and surveyed by cavers.

The 2012 Peru expedition explored over 40 caves above 4500m in the Puyo limestone massive, and the blocks visited to the North and West. Some were as high as 4862m, but given their length and depth only a few were selected for this list. A detailed log of what was found is available on the Peru 2012 website.

- 1. unnamed (Pakistan) 6645m above sea level
- 2. Qaqa Mach'ay (Peru -125m) 4930m above sea level
- 3. Puna Mach'ay (Peru 70m) 4862m above sea level
- 4. Saturna 4 (Peru -50m) 4850m above sea level
- 5. Breathlessness (-44m) 4797m above sea level
- 6. Popcorn Cave (Peru -45m) 4775m above sea level
- 7. Cueva Col (Peru -43m) 4757m above sea level
- 8. Popcorn Rift (Peru -45m deep) 4718m above sea level
- 9. Cueva Puyo (Peru -170m) 4696m above sea level. 1
- 10. Tragedero Puyo (Peru -122m) 4681 above sea level 2
- 11.El Exitador (Peru -71m) 4669m above sealevel

¹ Previously said to be 4585m above sea level, however, 3 new GPS and 2 Suunto altimeters showed it to be higher.

² Tragedero Puyo was previously thought to be at 4570m but our latest technology showed it to be 4681 above sea level.

12.El Chupadero (Peru 770m) 4623m above sea level

13.Dead Lama Pot (Peru -74m) 4604m above sea level

14.Rangkul'skaja (Syjkyrduu) (Pamir, Tajikistan - 268m) 4600m above sea level

15.Shattered Pot (Peru -70m) 4589m above sea level

- 16.Suicidal Tendencies (Peru -100m) 4571 above sea level
- 17. Minor Threat Spanish Hardcore (Peru -73m) 4556m above sea level

Names and terminology used in this report

Quechua	Spanish	English	
Millpu	Sima	Pothole/abyss	
T'oqo	Pozo	Hole	
	Tragadero	Swallower/swallet	
Puna		High Valley	
Mach'ay	Cueva/Caverna	Cave	
Puyo		Mist	
Cocha	Lago/Laguna	Lake	
	Cerro	Mountain	
Qaqa		Cliff	

My first caving trip - 3600m!

By Adam Haar

My account as a first time caver, learning from some of the worlds best at 4500m in the beautiful yet harsh terrain of the famous Andes in Peru.

Stepping into the world of caving even after having an abseiling background was like learning a new language. For days after the initial crew turned up I found myself having to learn both spanish and cave...

Spending 24 hrs a day 7 days a week with the crew was in itself a challenge but with such an open minded crew all there to do the same thing it seemed a breeze. Abseiling as a profession definitely helped with the heights aspect of this adventure but there is something to be said for descending down into the earth with nothing in my capable vision but pure blackness.

The sights looking out from the caves was amazing. one that stands out in my memory, whilst standing on a bed of snow, looking up at a small creek draining into the cave and spraying out over the entrance shimmering as the sun hit it was truly a moment of natures beauty at its finest.

Being able to observe and learn from the crew on their rigging style in such a relaxed environment made a huge difference to the speed at which I made progress in my newly found caving hobby.

Getting down and doing the rigging myself for the first time sent my energy levels through the roof.

The true test for me personally was a 100m drop I explored by myself. Entrusted to do all the rigging by the crew I was with was a huge boost for my confidence. At that time the crew only consisted of Andy, Andrew and myself. They braved the shocking weather into the night while I emmerced myself amongst calcified animal bones and a maze of passages that lead me to the termination of the cave 100m below, the ropes I had barely got my feet to the ground but at that point nothing was going to stop me trying to push further and further.

There were stages throughout the expedition inside wet cold and drawn out caves that I asked myself what the hell I was doing in there, considering all the warm relaxing places I could be at the same moment. But

push on I did only to emerge from the cave with a pure sense of achievement I had not felt before. The excitement ringed out through my entire body to excluding my speech.

After a long day, hearing about all the crews different adventures whilst we cooked dinner in the kitchen tent was one of my favourite parts of the trip.

Never have I walked so far and over the harshest terrain I have ever seen let alone ventured near. There were sights that not even our resident pro photographer could capture in all its glory. Images in my mind that will never be forgotten, I only wish I could describe in the detail they deserve to friends and family but I guess they are just for me to call back on and admire.

My first time at altitude was an adventure all by itself. I was hit with Soroche (altitude sickness) for 3 days at our first base camp up north. Never before had I had a migraine until that day or at least if i thought I had, this migraine put them all to shame. Luckily I didn't have to drag any of the crew down in altitude with me and I was able to acclimatise whilst staying in camp.

Even the little things at that kind of altitude can be a struggle which at one point or another I saw all of us encounter. Made me feel a lot better seeing as I think I was the only one who had never faced the parameters of altitude.

I will forever be extremely grateful to be invited and given the opportunity by Andy Mckenzie to partake in what was a once in a life time experience. A huge thanks to all the crew for putting up with the cave virgin token kiwi.

I can surely say that will not be my last caving adventure of this life time.

Adam Haar

Token kiwi.

Peru Caving - A first timer's prospective

By Andrew Perry

Drinking with Andy on the first night in Lima is not the ideal way to acclimatize. Spending 17hrs in a plane from Sydney simulates being at somewhere between 2000 - 3000m altitude. Rob, Hannah, Jess & I were all doing the second half of the six-week Expedition and it was great to meet them. The second night was spent just before a town called Alice next to the road and was just above 3000m. Thanks to Andy, he spent the night with us who had not yet acclimatised and mentioned he was itching to go caving again. For Andy it was a day's drive down out of the mountains to Lima, a day's drive back and to top it off, he got a made up speeding fine by the local constabulary - designed to extract scary amounts money through published law fines, or a smaller amount (by a factor of ten) in the form of a bribe. Two days off caving were a sensational waste of caving time by such a talent. One has to see Andy in full swing - twirling a drill with one finger like a gun-slinger, throwing bolts and rope into the cave walls like Spiderman and all with some punk rock blaring from his iPhone. Amazing!

The next day saw us arrive in camp (4500m) like a James Bond martini, "Shaken but not stirred". The road was rough and the last part could be argued as being non-existent. The drive through the canyons around the town of Tomas were incredible and left me wondering how the mining trucks got through the tight village streets, corners and bridges. Playing three hours of back seat corners games with Hannah & Rob was good sport. Nothing like human padding when the going gets rough. Rob tried putting his head through the closed window several times.

Jess and I headed out with David, AI and Nick to see them finish off a cave they started the day before, but ran out of rope to reach the bottom. Jess and I decide to walk back to camp 2km to see if we could spot some other caves. This relative short simple walk was tougher than expected at this new altitude. This definitely made up my mind to head back down the hill for another night at a lower altitude of 4000m at the town, Tinco. Rob, Hannah and I had a jolly time negotiating dinner, accommodation and breakfast using about 3 words of Spanish and a stupid amount of hand signs. We muddled our way through having a good laugh at ourselves with the locals - they will never be the same again.

The rest of my report is spread out through the rest of this document.

Playing soccer at 3500m

By Andy McKenzie

After several jars with our trout dinner, and our group getting raucous and rowdy, Guillaume and I snuck off to have a look around Huancaya's nightlife - Guillaume, of course, was after some dessert, his endless search for new tasty treats was insatiable... I just wanted to have a nose and a chat with some locals. Gold was struck when, down the street I discovered a floodlit 5 a side pitch illuminating a competitive yet friendly local footy game. The locals knew there were 10 gringos in town and it was pretty easy to convince them that

I had an international 5 a side footy team with global respect and epic ball skills in tow... much to their amusement I ran off to find this highly experienced, fit and fantastic football team. The legendary team consisted of a very drunk Rob, Hannah, Kiwi, Andrew and I, with our Quebecois coach and manager Guillaume taking bets around the court. It gave us heart to think that Guillaume was backing us with money!

Andrew: We have been smashing our bodies around 4800m for the last 3 weeks, I can barely walk, what were you thinking putting us forward for this?

David (Who would NOT commit to the team!): Andy, we are at 3550m, you guys wont even be able to run! A drunk Rob: Whats going on? where are we going?!

Kiwi: Chur bro, whats all this about?

Andy: GET YOURSELVES WARMED UP YA MAGGOTS, WE ARE GONNA TAKE THESE KIDS ON AND WE ARE GONNA WIN!

Hannah: Shitballs man, we are gonna need a case of beer to get us through this

We started our warm ups whilst the locals finished their friendly - Guillaume had us running laps, doing star jumps, push ups and weird dances. We started to get cocky and confident, the locals started to look upon us as a young footballer would look at Rooney, Beckham or Ronaldo... Guillaume advised us that the "buy in" for the game was a few Soles, so we paid up, drank more beer and started to divi the positions up. I would be keeper, Hannah the striker, and the 3 other lads would just run around and try and win the ball...

2 minutes into the game and Rob set Hannah up (he was getting chased by a bee and stumbled over the ball sending it her way) and she volleyed a blinder into the back of the net... GOAL! 10 more minutes into the game and we were 5-2 up! Diving across the tarmac I made a heroic save, even winning a cheer from the 4 old Peruvian ladies that were watching the match. Guillaume decided that we weren't going hard enough - that we needed to get more goals and needed to play more aggressively. His best tactic to inspire was to mount the high fence around the court and scream at us from the dizzying height. Apparently Hannah didn't like this technique - with the power of Zeus behind her foot she fired the ball as hard as possible towards an imbalanced Guillaume, the ball missed him by a fraction - a direct hit could have been fatal, but it was enough to encourage him to downclimb from the fence and take a less aggressive managers stance.

It was about this time that things started to go wrong - beers were in hand as we ran around and the opposite side, all young, fresh athletes accustomed to the altitude, started to catch us on goals - eventually overtaking us. Out of nowhere Andrew ran in for the tackle, but try as he may his jandled foot got twisted in the young opponents boots opening up a wound the size of El Tragedero itself on his right toe, blood was everywhere and tears were shed, and not just from Andrew - the gash was horrendous! Only an Aussie would play football in flip flops.

Next man down was Adam, ripping his hamstring and laying down in a kiwi show of tears and screams, the team was falling apart! Our manager decided that drinking more would help the remaining three players so we took a quick time out to smash down a long neck of Crystal. After the locals scored yet again, making it 18-5 to them, Rob got angry and kicked the ball as hard as he could. It hit their top man right in the face - his nose exploding in blood, bone and snot, the 4 old Peruvian ladies called the game, it was over.

We carried Adam and Andrew back to the hotel, whilst Guillaume started collecting his winnings from around the court - apparently our Quebecoise manager had had no faith in us from the get go. I was only consoled by the fact that the 4 old ladies patted our backs as we skulked on home...

18L 0433806 8643272	4850 WGS84	saturna valley	yauyos	Puna Mach'ay Saturna 4	Large entrance at top of ridge, bad access over scree slopes. 2 ways - one right, one left. suprisingly there is water entering. steep, broken and frost shattered really impressive rift ending in a gravel choke at -40m	explored - no leads seen
18L 0438465 8637458 18L 0433997 8645189	4827 WGS84 4827 WGS84 4809 WGS84	puyo north cerro rasupata valley saturna valley puyo north cerro chacamachay	yauyos yauyos Yauyos	PYN 30 Saturna 2 PYN 25	20m shaft to a gravel choke. rigged on naturals small entrance drops 20m through a carcass to a draughting hole 0.6x0.25. too tight but could be dug 5m pit chocked at the bottom	explored - no leads seen explored - requires digging explored - no leads seen
18L 0433997 8645189 18L 0433997 8645189 18L 0433679 8645344	4809 WGS84 4809 WGS84 4807 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge puyo north cerro rasupata valley	Yauyos Yauyos yauyos	PYN25 PYN25 PYN 51	5m loose choked 5m loose choked 7m shaft to breakdown chamber 4x4x4	explored - no leads seen explored - no leads seen
18L 0438368 8637438 18L 0434543 8642252 18L 0433915 8645224 18L 0433915 8645224	4806 WGS84 4805 WGS84 4805 WGS84 4805 WGS84	Puyo Valley puyo north cerro chacamachay Puyo block, north of the ridge	Yauyos Yauyos Yauyos Yauyos	PYS3 PYN 24 PYN24	3m climb down into 10m of passage - choked in a rift 6m pit with tight entrance	explored - no leads seen explored - no leads seen unexplored
18L 0433915 8645224 18L 0434868 8641516 18L 0433607 8645406	4805 WGS84 4797 WGS84 4796 WGS84	Puyo block, north of the ridge Puyo Valley puyo north cerro rasupata valley	Yauyos Yauyos yauyos	PYN24 Breathlessness (PYS10) PYN 50	2m-1m Entrance 44m shaft sloping gravel floor to a choke. 0.8m diameter hole to 25m shaft with stall. The rift soon becomes choked with scree - could be dug	Explored - no leads seen explored - requires digging
18L 0433808 8645342 18L 0433808 8645342 18L 0433808 8645342	4784 WGS84 4784 WGS84 4784 WGS84	puyo north cerro rasupata valley Puyo block, north of the ridge Puyo block, north of the ridge	yauyos Yauyos Yauyos	PYN 23 PYN23 PYN23	 12m shaft to a muddy slope. natural rigging leads to an 8m pitch. ends in a gravel sump 16-20m plus roll 1m x 2m finished 20/10/12 16-20m plus roll 1m x 2m finished 20/10/12 	explored - no leads seen explored - no leads seen
18L 0433654 8645437 18L 0433654 8645437 18L 0433654 8645437 18L 0435096 8644178	4775 WGS84 4775 WGS84 4775 WGS84 4766 WGS84	puyo north cerro rasupata valleyPuyo block, north of the ridgePuyo block, north of the ridgepuyo north cerro chacamachay	Yauyos Yauyos Yauyos yauyos	Popcom cave (PYN 22) PYN22 PYN22 PYN 29	bottom entrance to 8m shaft at back, full of bones	explored - no leads seen
18L 0432906 8644470 18L0432906 8644470 18L0432906 8644470 18L 0432864 8644578	4762 WGS84 4762 WGS84 4762 WGS84 4752 WGS84	puyo north cerro chacamachay Puyo block, north of the ridge Puyo block, north of the ridge	yauyos Yauyos Yauyos	PYN 28 PYN28 PYN28 Cueva Col	 horizontal cave 15m long to a small chamber Horizontal cave 15m long to a small chamber Horizontal cave 15m long to a small chamber horizontal cave on top of a col, very old phreatic tube, surveyed to grade 5c 43m long 	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0433431 8644664 18L 0433470 8644722	4718 WGS84 4700 WGS84	puyo north cerro chacamachay puyo north cerro chacamachay	Yauyos Yauyos	Popcorn rift (PYN 27) PYN 26	 25m daylight shaft. A tight squeeze then leads to a 30m deep rift - very pretty and also muddy. total depth 45m a wide entrance shaft drops 10m to a gravel floor. a window at 6m leads to a parallel shaft 37m deep, ends in a too tight rift. 	explored - no leads seen explored - no leads seen
18L 0433470 8644722 18L 0433422 8644664 18L 0433470 8644722	4700 WGS84 4700 WGS84 4700 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Puyo block, north of the ridge	Yauyos Yauyos Yauyos	PYN26 PYN27 PYN26	shart 37m deep. ends in a too tight hit	
18L 0433422 8644664 18L 0434257 8641730	4700 WGS84 4696 WGS84	Puyo block, north of the ridge Puyo Valley	Yauyos Yauyos	PYN27 Cueva Puyo	Entrance series drops into a large development which drops through a series of pitches (dangerous gravel slopes!) into a 100m deep rift. Cave explored to 200m where the rift thins and becomes impassable. small climb at the bottom doesnt do anything and cave is	explored - no leads seen
18L 0426194 8665876 18L 0426194 8665876 18L 0426186 8665832	4686 WGS84 4686 WGS84 4683 WGS84	Ridge north of Trag. Cimetario de mascote Ridge north of Trag. Cimetario de mascote Ridge north of Trag. Cimetario de mascote	es Yauyos Yauyos Yauyos	PLB10 PLB10 PLB11	considered finished. Horizontal cave 10m long to a flowstone blockage. Horizontal cave 10m long to a flowstone blockage. Small 6m pit. Chocked.	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0426186 8665832 18L 0434304 8641596	4683 WGS84 4681 WGS84	Ridge north of Trag. Cimetario de mascote Puyo Valley	es Yauyos Yauyos	PLB11 Tragedero Puyo	 Small 6m pit. Chocked. 122m deep - beautiful entrance series drops to some smaller pitches - gets tight. at 122m the cave goes to a squeeze that was pushed into water where an underwater squeeze would need to be pushed - cave considered finished. checked the "window" in entrance 	explored - no leads seen a explored - no leads seen
18L 0426359 8665830 18L 0426359 8665830	4669 WGS84 4669 WGS84	Ridge north of Trag. Cimetario de mascote Ridge north of Trag. Cimetario de mascote	es Yauyos Yauyos	PLB14 (el exitador) PLB14 (el exitador)	 shaft - does nothing. Small vertical entrance (P5), then P6, then P7, then P51, then boulder choke at bottom. Some decent leads in the P51. Small vertical entrance (P5), then P6, then P7, then P51, then boulder choke at bottom. 	fully mapped fully mapped, could be dug
18L 0436278 8643584 18L 0414524 8649643	4667 WGS84 4667 WGS84	puyo north cerro chacamachay Tomas block, inca remains area above Huancava	yauyos Yauyos	PYN 31 PTB1	Some decent leads in the P51. 76m deep 5m shaft Horizontal cave entrances	explored - no leads seen explored - no leads seen
18L 0436534 8642868 18L 0436534 8642868 18L 0426346 8665789	4665 WGS84 4665 WGS84 4663 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Ridge north of Trag. Cimetario de mascote	Yauyos Yauyos Yauyos	PYN20 PYN20 PLB15	Higher entrance to PLB12	explored - no leads seen
18L 0426346 8665815 18L 0426360 8665815 18L 0426360 8665815 18L 0436484 8642901	4662 WGS84 4662 WGS84 4662 WGS84 4661 WGS84	Ridge north of Trag. Cimetario de mascote Ridge north of Trag. Cimetario de mascote Ridge north of Trag. Cimetario de mascote Puyo block, north of the ridge	 Yauyos Yauyos Yauyos Yauyos Yauyos 	PLB13 PLB13 PYN13	Double entrance to a 8m pit. Then P5 after what it gets too tight. Double entrance to a 8m pit. Then P5 after what it gets too tight. 55m blind pit. Dead	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0436484 8642901 18L 0426349 8665800 18L 0426349 8665800	4661 WGS84 4654 WGS84 4654 WGS84	Puyo block, north of the ridge Ridge north of Trag. Cimetario de mascote Bidge north of Trag. Cimetario de mascote	Yauyos Yauyos Yauyos	PYN13 PLB12 PLB12	 55m blind pit. Dead 10 meters wide by 3 meters high horizontal entrance dropping directly in the dip (-48 deg.). Chocked. 10 meters wide by 3 meters high horizontal entrance dropping directly in the dip (-48 	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0436386 8643501 18L 0436376 8643522	4653 WGS84 4649 WGS84	puyo north cerro chacamachay puyo north cerro chacamachay	yauyos yauyos	PYN 33 PYN 32	deg.). Chocked. 12m shaft 15m shaft blind 15m shaft	explored - no leads seen explored - no leads seen
18L 0436497 8643041 18L 0436497 8643041 18L 0414893 8648659	4649 WGS84 4648 WGS84	Puyo block, north of the ridge Tomas block, inca remains area above Huancaya	Yauyos Yauyos	PYN12 PTB 2	blind 15m shaft 5m choked horizontal cave	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0436408 8643476 18L 0414440 8648063 18L 0436653 8642895	4642 WGS84 4640 WGS84 4627 WGS84	puyo north cerro chacamachay Tomas block, inca remains area above Huancaya puyo north cerro chacamachay	yauyos Yauyos yauyos	PYN 34 Chalk Hall (PTB5) PYN 21	awesome daylight shaft - hard to rig because of shitty rock. large breakdown chamber 20m drop, small crawl horizontal cave excavated 1st choke, second visible	explored - no leads seen explored - no leads seen explored - requires digging
18L 0436653 8642895 18L 0436653 8642895 18L 0436653 8642895 18L 0436653 8642895	4627 WGS84 4627 WGS84 4627 WGS84 4627 WGS84	Puyo block, north of the ridgePuyo block, north of the ridgePuyo block, north of the ridgePuyo block, north of the ridge	Yauyos Yauyos Yauyos Yauyos	PYN21a PYN21b PYN21a PYN21b	14m blind 14m blind	explored - no leads seen
18L 0436342 8642273 18L 0436342 8642273 18L 0416039 8662597	4625 WGS84 4625 WGS84 4623 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Chupadero area	Yauyos Yauyos Yauyos	PYN14 PYN14 El Chupadero	blind shaft blind shaft 770m of complicated and strange layered cave. cave sucks air	Explored - no leads seen Explored - no leads seen explored - no leads seen
18L 0436770 8642933 18L 0414447 8648238	4621 WGS84 4620 WGS84 4620 WGS84	 Fornas block, inca remains area above Huancaya Puyo block, north of the ridge Tomas block, inca remains area above 	rauyos Yauyos Yauyos	PYN15 PTB 4	 ∠ snans, one спокеd at 5m, one choked at 16m 16m choked. Dead. 10m pitch, 10 m horizontal underneath 	explored - no leads seen explored - no leads seen
18L 0436770 8642933 18L 0436764 8643054 18L 0436764 8643054	4620 WGS84 4617 WGS84 4617 WGS84	Huancaya Puyo block, north of the ridge Puyo block, north of the ridge Puyo block, north of the ridge	Yauyos Yauyos Yauyos	PYN15 PYN19 PYN19	16m choked. Dead. 13m vertical drop Blind. 13m vertical drop Blind.	explored - no leads seen explored - no leads seen
18L 0436457 8641834 18L 0436457 8641834 18L 0436740 8643012	4616 WGS84 4616 WGS84 4611 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Puyo block, north of the ridge	Yauyos Yauyos Yauyos	PYN1 PYN1 PYN11	10 m blind shaft 10 m blind shaft blind 15m shaft	Explored - no leads seen Explored - no leads seen explored - no leads seen
18L 0436740 8643012 18L 0436742 8643039 18L 0436742 8643039 18L 0430452 8645660	4611 WGS84 4608 WGS84 4608 WGS84 4604 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Puyo block, north of the ridge Far North Puyo block (roadside)	Yauyos Yauyos Yauyos Yauyos	PYN11 PYN10 PYN10 Dead Lama pot (PYFN1)	blind 15m shaft 5m shaft to 6m horizontal to 2m climb into blind room 5m shaft to 6m horizontal to 2m climb into blind room 74 m shaft with ledges - rigged off ute	explored - no leads seen explored - no leads seen explored - no leads seen explored - no leads seen
18L 0436759 8643086 18L 0436759 8643086 18L 0433442 8642999	4604 WGS84 4604 WGS84 4603 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Puyo valley	Yauyos Yauyos Yauyos	PYN9 PYN9 PYS 10	4m Blind shaft. Dead 4m Blind shaft. Dead unexplored horizontal cave - needs digging. smallish 4 mitches to a 70m blind bettern	explored - no leads seen not explored
18L 0436790 8643078 18L 0436790 8643078 18L 0436799 8643093	4600 WGS84 4600 WGS84 4597 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge	Yauyos Yauyos Yauyos	PYN8 PYN8 PYN7	 4 pitches to a 70m blind bottom 4 pitches to a 70m blind bottom 15m to a split, obvious way on is 10m with 2c into dead room. 27m deep. second way on requires traverse then 2c into a room with small window with drafting hole going to with a split. 	explored - no leads seen explored - requires digging (tight)
18L 0436819 8643067 18L 0436799 8643093	4597 WGS84 4597 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge	Yauyos Yauyos	PYN18 PYN7	 undescended pit. 10m vertical drop, dead 15m to a split, obvious way on is 10m with 2c into dead room. 27m deep. second way on requires traverse then 2c into a room with small window with drafting hole going to 	explored - requires digging (tight)
18L 0436819 8643067 18L 0430464 8645504	4597 WGS84 4594 WGS84	Puyo block, north of the ridge Far North Puyo block (roadside)	Yauyos Yauyos	PYN18 Tropicana pot (PYFN2)	undescended pit. 10m vertical drop, dead 28m entrance shaft goes to breakdown - there is a drafting fissure at the bottom into another shaft - impasssable. hole 4m away from entrance doesnt go	explored - no leads seen explored - no leads seen
18L 0436824 8643158 18L 0436824 8643158 18L 0336840 8643081 18L 0336840 8643081	4594 WGS84 4594 WGS84 4593 WGS84 4593 WGS84	 Puyo block, north of the ridge 	Yauyos Yauyos Yauyos Yauyos	PYN6 PYN6 PYN17 PYN17	12m tight shift choked 12m tight shift choked 40m pitch, dead 40m pitch, dead	explored - no leads seen
18L 0436885 8643135	4589 WGS84 4583 WGS84	Far North Puyo block (roadside) Puyo block, north of the ridge	Yauyos Yauyos	Shattered pot (PYFN3) PYN5	70m deep. entrance shaft is 18m to a ledge which drops into a rift - terrible and terrifying rock to drill into! rift finishes at a 5m climb down - gravel floor	explored - no leads seen
18L 0436885 8643135 18L 0436884 8643092 18L 0436884 8643092 18L 0430605 8645358	4579 WGS84 4579 WGS84 4579 WGS84 4574 WGS84	Puyo block, north of the ridge Puyo block, north of the ridge Puyo block, north of the ridge Far North Puyo block (roadside)	Yauyos Yauyos Yauyos yauyos	PYN5 PYN16 PYFN 5	15m blind pit 15m blind pit 1 x 0.5m entrance drops 35m opens after 5m, nice cave!	Explored - no leads seen Explored - no leads seen
18L 0414570 8647446 18L 0430664 8645230	4572 WGS84 4571 WGS84	Tomas block, inca remains area above Huancaya Far North Puyo block (roadside)	Yauyos Yauyos	The Phillips Head Suicidal Tendencies	3 drops together, middle one goes to 92m, great pitch. all connect in main shaft. impressive entrance shaft drops to about 45m where a traverse over a gravel slope opens up into a series of shafts converging. below this 15m pitch is a 40m which ends in a	explored no leads seen s explored - side leads into other shafts not checked
18L 0433597 8642458 18L 0433816 8642208 18L 0430624 8645246	4565 WGS84 4560 WGS84 4559 WGS84	Puyo Valley Puyo Valley Far North Puyo block (roadside)	Yauyos Yauyos Yauyos	PYS2 PYS1 PYEN 7	gravel choke 100m deep Small entrance - doesnt go more than 5m Small hole, 3m deep 2.5m diameter shaft, 15m deep	explored - no leads seen explored - no leads seen explored - no leads seen
18L 0430624 8043248 18L 0432895 8662236 18L 0430720 8645088 18L 0430511 8645304	4559 WGS84 4559 WGS84 4558 WGS84 4556 WGS84	CERRO Shacoc Machay Far North Puyo block (roadside) Far North Puyo block (roadside)	Yauyos Yauyos Yauyos Yauyos	PLA14 PYFN 12, 13, 17 Minor threat, SPANISH HARDCORE	3m by 3m by 3m dead pit on ridge all grass bottomed pits 1m deep fantastic 73m shaft. 35m to a scoop where another bolt saw me to -65m. 1 bolt got me to	explored - no leads seen Explored - no leads seen explored - no leads seen explored - no leads seen
18L 0436877 8642677 18L 0436877 8642677 18L 0426003 8665349	4550 WGS84 4550 WGS84	Puyo North Pampa Luricocha Puyo North Pampa Luricocha	Yauyos Yauyos	Unnamed (015)	73m Small mine cave 18m horizontal	explored - no leads seen
	4548 WGS84	Cerro Fierro Mina	Yauyos	Unnamed (015) PLB2	Small mine cave 18m horizontal drafting dig on small rockface	explored - no leads seen
18L 0427213 8664772 18L 0433006 8660268 18L 0430679 8645178 18L 0436546 8642877	4548 WGS84 4548 WGS84 4545 WGS84 4542 WGS84 4542 WGS84	Cerro Fierro Mina Cerro Fierro Mina CERRO Shacoc Machay Far North Puyo block (roadside)	Yauyos Yauyos Yauyos Yauyos	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017)	Small mine cave 18m horizontal drafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor	explored - no leads seen explored - requires digging explored - no leads seen not explored explored - no leads seen
18L 0427213 8664772 18L 0433006 8660268 18L 0430679 8645178 18L 0436546 8642877 18L 0436546 8642877 18L 0425602 8665252 18L 0414409 8647796	4548 WGS84 4548 WGS84 4545 WGS84 4542 WGS84 4542 WGS84 4542 WGS84 4542 WGS84 4537 WGS84	Cerro Fierro Mina Cerro Fierro Mina CERRO Shacoc Machay Far North Puyo block (roadside) Puyo North Pampa Luricocha Puyo North Pampa Luricocha Chupadero area Tomas Block	Yauyos Yauyos Yauyos Yauyos Yauyos Yauyos Yauyos Yauyos	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017) Unnamed (017) PL2 Finger Pot	 Small mine cave 18m horizontal Small mine cave 18m horizontal drafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor 13m vertical drop 13m vertical drop ? 15m drop to a boulder ledge and a beautiful 35 m pitch. blocked bloor with drafting 	explored - no leads seen explored - requires digging explored - no leads seen not explored explored - no leads seen explored - no leads seen ? explored - no leads seen
18L 0427213 8664772 18L 0433006 8660268 18L 0430679 8645178 18L 0436546 8642877 18L 0436546 8642877 18L 0425602 8665252 18L 0414409 8647796 18L 0427603 866494 18L 04307697 8645110 18L 0430525 8645226	4548 WGS84 4548 WGS84 4545 WGS84 4542 WGS84 4542 WGS84 4542 WGS84 4537 WGS84 4537 WGS84 4537 WGS84 4536 WGS84 4532 WGS84	Cerro Fierro Mina Cerro Fierro Mina CERRO Shacoc Machay Far North Puyo block (roadside) Puyo North Pampa Luricocha Puyo North Pampa Luricocha Chupadero area Tomas Block Cerro Fierro Mina Far North Puyo block (roadside) Far North Puyo block (roadside)	YauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyos	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017) Unnamed (017) PL2 Finger Pot PLB5 PYFN 14, 15 unnamed (PYFN10)	 Small mine cave 18m horizontal Small mine cave 18m horizontal drafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor 13m vertical drop 13m vertical drop ? 15m drop to a boulder ledge and a beautiful 35 m pitch. blocked bloor with drafting fissure - too small stream sink, choked and dry 15m deep by 30 wide 2m pits, dirt floor Pit visible from the road. Entrance hole is a 4x2 metre shaft. Drops 25 metres. Down 	explored - no leads seen explored - requires digging explored - no leads seen not explored explored - no leads seen explored - no leads seen ? explored - no leads seen explored - no leads seen Explored - no leads seen explored - no leads seen explored - no leads seen
18L 0427213 8664772 18L 0433006 8660268 18L 0430679 8645178 18L 0436546 8642877 18L 0436546 8642877 18L 0436546 8642877 18L 0425602 8665252 18L 0414409 8647796 18L 04307697 8645110 18L 0430525 8645226 18L 0432361 8661931 18L 0437251 8642998 18L 0432370 8661958	4548 WGS84 4548 WGS84 4545 WGS84 4542 WGS84 4542 WGS84 4542 WGS84 4537 WGS84 4537 WGS84 4537 WGS84 4538 WGS84 4531 WGS84 4531 WGS84 4529 WGS84	Cerro Fierro Mina Cerro Fierro Mina CERRO Shacoc Machay Far North Puyo block (roadside) Puyo North Pampa Luricocha Puyo North Pampa Luricocha Chupadero area Tomas Block Cerro Fierro Mina Far North Puyo block (roadside) Far North Puyo block (roadside) Far North Puyo block (roadside) Cerro Shacoc Machay Puyo block, north of the ridge Cerro Shacoc Machay	YauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyos	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017) Unnamed (017) PL2 Finger Pot PLB5 PYFN 14, 15 unnamed (PYFN10) PLA 3 PYN3 PLA 4	Small mine cave 18m horizontal Grafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor 13m vertical drop 13m vertical drop ? 15m drop to a boulder ledge and a beautiful 35 m pitch. blocked bloor with drafting fissure - too small stream sink, choked and dry 15m deep by 30 wide 2m pits, dirt floor Pit visible from the road. Entrance hole is a 4x2 metre shaft. Drops 25 metres. Down climb 1st 6-7m. Tight most of the way 5m choked cave with lama jaw bone 40m pitch, dead 10m plus shaft	explored - no leads seen explored - requires digging explored - no leads seen not explored explored - no leads seen explored - no leads seen ? explored - no leads seen explored - no leads seen
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18L 0427213 8664772 18L 0433006 8660268 18L 0430679 8645178 18L 0436546 8642877 18L 0436546 8642877 18L 0436546 8642877 18L 0425602 8665252 18L 0425602 8665252 18L 0427603 866494 18L 0427603 866494 18L 04307697 8645110 18L 0430525 8645226 18L 0432361 8661931 18L 0437251 8642998 18L 0437251 8642998 18L 0437251 8642998 18L 0432367 8661956 18L 0432811 8660210 18L 0426466 8665200 18L 0414459 8647686	4548 WGS84 4548 WGS84 4545 WGS84 4542 WGS84 4542 WGS84 4542 WGS84 4537 WGS84 4537 WGS84 4533 WGS84 4534 WGS84 4535 WGS84 4536 WGS84 4531 WGS84 4531 WGS84 4529 WGS84 4523 WGS84 4524 WGS84 4523 WGS84 4523 WGS84 4523 WGS84 4523 WGS84 4523 WGS84	Cerro Fierro Mina Cerro Fierro Mina CERRO Shacoc Machay Far North Puyo block (roadside) Puyo North Pampa Luricocha Puyo North Pampa Luricocha Chupadero area Tomas Block Cerro Fierro Mina Far North Puyo block (roadside) Far North Puyo block (roadside) Far North Puyo block (roadside) Cerro Shacoc Machay Puyo block, north of the ridge Cerro Shacoc Machay Puyo block, north of the ridge Cerro Fierro Mina Cerro Shacoc Machay Puyo block, north of the ridge Cerro Shacoc Machay Cerro Shacoc Machay	YauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyosYauyos	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017) Unnamed (017) PL2 Finger Pot PYFN 14, 15 unnamed (PYFN10) PLA 3 PYN3 PLB1 Megadeath (PLA 12) PLB4 PTB 6	Small mine cave 18m horizontal drafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor 13m vertical drop 13m vertical drop ? 15m drop to a boulder ledge and a beautiful 35 m pitch. blocked bloor with drafting fissure - too small stream sink, choked and dry 15m deep by 30 wide 2m pits, dirt floor Pit visible from the road. Entrance hole is a 4x2 metre shaft. Drops 25 metres. Down climb 1st 6-7m. Tight most of the way 5m choked cave with lama jaw bone 40m pitch, dead 10m plus shaft 40m pitch, dead 10m plus shaft 40m pitch, dead 10m plus shaft 40m pitch, dead 10m plus shaft 40m pitch, dead 5tream sink with multiple entrances, approx 70m deep with pitches - see survey choked sink	explored - no leads seenexplored - requires diggingexplored - no leads seennot exploredexplored - no leads seenexplored - no leads seen?explored - no leads seen?explored - no leads seenexplored - no leads seen
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Pitch appears to be 5 metres and then blind onto dirt floor 10m vertical drop </td> <td>explored - no leads seenexplored - requires diggingexplored - no leads seennot exploredexplored - no leads seen?explored - no leads seen?explored - no leads seenexplored - no leads seen</td>	Unnamed (015) PLB2 PLB6 PLA 20 unnamed (PYFN16) Unnamed (017) Unnamed (017) PL2 Finger Pot PLB5 PYFN 14, 15 unnamed (PYFN10) PLA 3 PYN3 PLB1 Megadeath (PLA 12) PLA 23 PLB4 PTB 6 PYN4 PYN4 PLA 13 Thunderball Pot (PLA 22) PLB3 PLA 21 unnamed (PYFN19) Unnamed (018) Unnamed (018)	Small mine cave 18m horizontal drafting dig on small rockface dry stream sink, choked (good dig project) 15m deep and 20m wide 4m horizontal cave used by farmer for storage Narrow shaft of about 5 metres - appears to end in dirt floor 13m vertical drop ? 15m drop to a boulder ledge and a beautiful 35 m pitch. blocked bloor with drafting fissure - too small stream sink, choked and dry 15m deep by 30 wide 2m pits, dirt floor Pit visible from the road. 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Vertical shaft, 40m + Dry resurgence - would beed digging through rocks Large mine, many passages. Draft with vertical drop leading to entrance down valley Large mine, many passages. Draft with vertical drop leading to entrance down valley Large mine, many passages. Draft with vertical drop leading to entrance down valley Large mine, many passages. Draft with vertical drop leading to entrance down valley Large mine, many passages. Draft with vertical drop leading to entrance down valley Large mine, many passages. Draft with vertical drop leading to	explored - no leads seen explored - requires digging explored - no leads seen ? explored - no leads seen
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