

Belinda Smith

From: Belinda Smith
Sent: Tuesday, 18 December 2012 2:13 PM
To: 'Daniel Ansell'
Subject: RE: Daly Waters Core Hylogging

Thanks Daniel,

I've just had another look at the TSG dataset with the petrology. I have noted that;

- a) The sample at 138.38m has a marker showing where core was sampled. The other 3 samples collected don't have a marker so I can't be sure of exactly which bit was sampled
- b) The sample from 184.32m is not marked and also the petrography doesn't match the HyLogger results. The petrography states "Extremely fine grained calcite-rich ?calcrete containing poorly defined irregular outlines of angular lithic fragments. It most likely represents a deposit of exceptionally fine grained, reworked (?aeolian) and recrystallised microfossil clasts." However, the HyLogger shows a laminated muddy sediment (from imagery) with muscovite and quartz as main minerals. Perhaps the sample was taken from another depth?
- c) The sample from 230.5m is not marked and the core shows sharp changes over a short distance. It's not clear whether the sample is of the blocky core at around 230.7m or the rubbly friable core around 230.5m
- d) The sample from 262m is also not marked and the structure of a 'micro worm burrow' could not be identified in the core.

Regards,

Belinda

Belinda Smith | Project Geologist - HyLogger

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From: Daniel Ansell [mailto:Daniel@naturalresources.net.au]
Sent: Thursday, 6 December 2012 3:34 PM
To: Belinda Smith
Cc: Emma Dodd; Nicole Munro; Peter Forder; Becana Devencorn
Subject: RE: Daly Waters Core Hylogging

Hi Belinda,

This is great news about our core being logged. Thank you for informing us, the geology does sound interesting!

Please find attached the lithological log for the Daly Waters core and a report on some samples that were Petrologically examined. Unfortunately we have no assay data for this core as yet.

I hope this helps. If you need anything else, please let me know.

Kind regards,

Daniel Ansell
Geologist



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From: Belinda Smith [mailto:Belinda.Smith@nt.gov.au]
Sent: Thursday, 6 December 2012 1:21 PM
To: Daniel Ansell
Cc: Emma Dodd
Subject: RE: Daly Waters Core Hylogging

Hi Daniel,

Your core has been HyLogged. I've attached a quick mineral summary from preliminary processing. The depth logging still needs to be done so the depths are approximate (but within a metre). I hope these slides give you some insight into your core.

Of interest (well, to me at least) is the following:

The carbonate unit has a distinct dolomite horizon above the mixed carbonate (dolomite + calcite +/- ankerite)
There is a weak kaolinisation horizon further downhole, which MAY indicate a paleoregolith (but can't be sure; not enough work done at this stage)
The contact between the basal carbonate and upper white mica unit is very sharp mineralogically.
There is pyrophyllite towards the base of the hole and it appears to increase downhole (it goes from being a minor mineral component to the major mineral). Not sure if that's significant (?)

If you have a log or assays then this can be combined and displayed with the spectral data in TSG. At this stage I just concentrated on showing the main mineral domains in this hole. I haven't referred back to your collaborations proposal; this has been purely about the minerals from the spectra.

If you have any questions or want me to check anything, please let me know.

Cheers,

Belinda

Belinda Smith | Project Geologist - HyLogger

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From: Daniel [<mailto:Daniel@naturalresources.net.au>]
Sent: Tuesday, 27 November 2012 2:38 PM
To: Belinda Smith
Cc: Emma Dodd
Subject: Daly Waters Core Hylogging

Hi Belinda,

Just wanted to touch base to see how you are getting along with the core you are Hylogging currently.

I was in contact with Darryl a couple of weeks ago and he said that you would be the best person to talk to for an update.

Is our core still next in line

Kind regards,

Daniel Ansell
Geologist



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