

Aug. 23 (Trav. 14) WANN DD CORE.

Determine location from P. Daker reports. OK Sept 83

DDH 92-W3

to logging sequence some gaps due to buried core boxes

0-105' - O.B. - Diasticton, lotsa pebbly fill cored + heterogeneous boulders.

105-132

Andesite - flow v. homogeneous, f.g. feldspathic rock, equigranular

+ f.g. mafics (chloritized), small monocrystals + rare zed ± calc. frags

45° to CA. faint but distinct mafic streaks that impart foliation/layering look

min 3m weak pyrite xls + Zed = stibite (orange) + (laumont) + calc

then f.g. hble TIC eudrite - v. homog. look > 115' py ~ < 1%

(olive) hble 25% to 2mm, & 1mm.

Perv. greenish saussurite look.

Distinct wk color banding due to dk/pale green (act) accentuation of mafic act + felts saussuritizat

Composition might be true Andesite (not basalt).

WR @ 121'

eg 93AP14/1-107

WR for 'background' chemistry to check superimposed clay act chem/mineralogy on this homogeneous flow rock.

132-137

Lithic Felsic ash tuff → dust tuff [Epiclastic?]

Clay act cement + perv. Clay cashed thereafter.

Some clasts subrounded to 1cm, mostly ash. Qtz grains present but seem to diminish in to

mainly felts. xls by ~ 150' ∴ Lithic xl (feldspathic) ash T.

dust top of bottom foot - med brown vitrophytic dust? now mud clay!

137-54.6m

Andesite

as above but CLAY (Goo)

actd to tully to punky grey → cream goo.

Clay 137-47m

complete clay act of phenos + matrix + int-g py to

act + 137-47.5m

impart greener. Resist felts grainarity, preserved.

No H.S. but check XRD clay (in sample envelope)

XRD 47m 93AP14/2-108

envelope with clay goo scuzz act of bentonite - smect

WR + XRD

'clay goo' andesite DO WR to see Δ in diam. from #107

~ 47m-48m transition to recognizable, coherent andesite as above

C 47.9 10m, ribboned calcite in ~ C.A.

47m-161ft

Andesite hbl plagioc - 'Unaltered'

161ft to 54.6m

Clay actd goo again.

Clay v. grey, 4 samples

DDH 92-W3 Contd.

179' - 189 ft

54.6m - 57.5m

**Epiclastic mud** + some detrital rounded clasts, rare carbonaceous seams to 0.5 cm. Black → chocolate brown → buff tan colour. v. clay actd - gooey smectite actn

189'

57.5m - 197.5'

**Andesite** (Clay actd, hopeless goo) - recent mag tells the story - but nothing is sure in this stuff. - could be dust wash / vitric tuffs.

Δ v. sudden, And. has v. sh 1mm white clay laths in 5" then 'fresh' like #107.

197.5 - 240.5'

**Andesite** (hble the stuff - SOS)

≈ 210', hardly a fracture to be seen. v. solid core

c240.5. chilled contact. matrix aphanitic olive drab gray, gym (Δ crew) 5-lob. plug shows to 2mm, hb v. f.g.

240.5 - 506

**Clay actd felsic tuff / epiclastic?** Mudstone patches.

VITRIC (weeded)? Tuffs

layered yellow-buff clay with dark carbonaceous layers or

> clay 4. 1-2' carbonaceous (barter) layers / all fine gyps / 50% 50??

eg c 322-334 mottled grey-tan actn in (weeded) ash [flow] based lapilli as indistinct clasts or simply rhyolite flow - spotting due to f.g. pyritic replacement

eg 332' of 93AP 14/1-109

- weeded? - prob. not, prob. air fall

> 334-505 clay actd 'devitrified vitrophyric dust tuff' - maybe there are devitrified flows even [or ashflows]?

eg. rhy. flow with 345-346', 351-353, 358-362 in between sos clay actd

these are sl. hard, pyritic. sects ↑ goo. progressively more solid core - all rhyolite flow rock!

eg c 400' 93AP 14/1-110

- flow b' d (weeded) (lapilli?) = rhyolite flow b'?

flow b', weeded ashflow?? - there are patches in overall

clay actd rx. / pyritic patches throughout as v. f.g. replacements that give dev. grey colour (vs tan).

c 448-495 v. dark grey laminated clay, prob 4 v.s. v.f.g. py/mc replacement

c 457 - massive med gray mud (clay) - no recent texture; rare 21mm (bluish gray) qtz chaledonic mlt present.

WR c 467' 93AP 14/1-111

- massive grey, mud (clay) actn  
? ~~feldsp~~ felsic vitrophyre v. rhy tuff?

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2/3

Aug 23/93 DDH 92-W 3 cont'd.

240.5-506 Felsic dust tuff ± carbonaceous layers (Ash flow? unit) cont'd.

506-538 (coh) Lapilli (airfall) tuff, matrix-supported lapilli → ash  
Subangular clasts, white in v. dark dust/fine ash ~15% by vol.  
matrix, random orientatn slight clast orientatn || lapilli/ash  
boundary. Clasts are rhyolite (entirely), nonsorted

C528 93AP14/1-112 looks Airfall but unsorted

40° to CA  
c 530' Slight layering lapilli/ash layer  
Pyrite - as v.f.g 'dustings' around clasts

Overall 92W3: Top 1. Andesite - flow v. wky aetd

2. Andesite - separated by 1m epiclastic rock

3. Thick layered sequence of totally clay-aetd, devitrified  
rhyolite (dust-tuff) ashflows with interlayered  
carbonaceous units

4. Lapilli tuff

altm: nothing is silicified, entire hole is clay aetd  
Smectite (beaumontite) slimy, gooey (expanding supergene) clay

min: <sup>all</sup> Sulphides are microscopic 'dustings' in matrix & around clasts.

1992 W 4 - Box 1 (only 1 box stored)

0-130' O.B. & casing

130-150 - Crushed, strong propylite in flm.g. qtz diorite

aetm: dissem./intergranular epidote ≤ 1mm +

tiny spots <sup>brown</sup> leucoxene (prob. + Ca<sub>3</sub>).

No h.s.  
taken

No more core to look at. did they test to check Subcrop?  
& abandon after 1 box 'cause it was NFG.

### 3 Miscellaneous samples characterizing holes

DDH 92 W9-256' - 93AP 14/2-118 - F.g. leucocratic qtz diorite  
Some pink zeolite on fract. wk chloritic act. of mafics  
zeol. - Subpropylite

DDH 92 W12-236' - 93AP 14/2-119 - v. siliceous granular rock; protolith?

St. chlorite alk propylite like in creek to SE

lapilli tuff (bx) = see H.S.

93AP 15/1-121 #122x

DDH 92 W14-140' - 93AP 14/2-120 - chloritized f.g. (qtz?) diorite veined &

fracture fract. filled & pink zeol. (+? calcite); some  
zeol. + calc. bands to 3 cm. in wk v. stockwork

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DDH 92 W-1

0- 51ft. (15.5m)

51-88' BS/Andesite

Felts

crushed, clay aetd with with clay-aetd felts. ^ Tic relict texture is well preserved. Some crushed, pebble-bx (faulted) gne(s) to 82'

aetn 82-88 phyllic? aetn (see 92-116' descriptn). prob. considerable surficial clay aetn.

88-92' Rhyolite (Felsite) dyke

f.g. sugary-granular & minimal mafic -> sc. grains. Contact bxd p intrusive

91'-93AP14/1-117

flame structure. Low (Nil?) pyrite cut by thin bands of bx matrix

~~Exp~~ 'siderite' - v.f. xline/microxline nod brown stuff, also bx matrix - cuts 1 py vnlts  
also 1 py + qtz (E? CO3) vnlts cuts 'siderite' aetn

dyke @ 25° to C.A.

Altn - perv. phyllic / xcutting py + siderite + py

92-510 BS/Andesite (subtle aetn changes throughout)

92-116' aetn ? phyllic - f.g. sugary-granular, largely leucopneumat texture & v.f.g. diss py + rare pyritic bands

Note: ^ Fw is much thicker than HW. (clay aetd)

-> 116'-197' - Normal BS/And m.g. white felts Tic flow rock & good relict texture. Very typical/profolitt. Altn - st. variable

longitudinal illite + py & 'fresh' patches and

calcite? + anhydrite.

py 1-2% diss, h bdx is

recognizable as ~1mm laths.

Locally gyp. vnlts.

197-227 > sericitic + py diss + vnlts, in frequent more clayey patches

eq. c 217' - 93AP 14/1-116

f? gne/crushed, clayey rock 217-232

232-257' - (gyp) in frags in clay aetd felts in relict bs texture

Typ bs/and >257-310

felds. has much gyp. 'bloom' on weathered faces

(? Ca out of felds. aetn & soil weathering solutions?)

good relict textures, somewhat clay aetd

locally patches of white aetd lth play the bs/and

DPH 92 W-1 cont'd.

- 370-408 flow bed'd & some milled (Caret zone) pebbles;  
Clay act'd as pervasiv, grey clay - in 80s Bs/and  
& patchy clay wipe-out texture.

408-445 clay act'd & relict felds xls. F.g. diss py & some in frags

445-497 'Fresh' relatively speary hld F.P. bs/and - least act'd.  
& rare calcite vlt. v. little clay - mil. Some rare frags  
& orange zoelite & anhydrite. Rare vlt(s) & epidote + py ± tr. anhyd. in core.

473-93AP 14/1-114 - typical dark grey/gm little act'd 1st + diss py

497-510 clay act'd felds xls in typ felds hld vlt Bs/and.

507

510-513

Rhyolite dyke

buff-pink microcline = zonalitic. Top scalloped contour; Centre is  
sl. raggy. Causes act'n in F.P. wall rocks. 1' phyllite on  
#W, 3' in F.W.

Altn envelope in F.P. Bs/And is perv. pinkish <sup>texture</sup> unipent  
is this albite? ser/ilite I CO3 or wlat

507' - 93AP 14/1-113

513-547'

Bs/Andesite - typ. f/m.g.F. #1c Flow rock - v. homog.

protolith; variable am intens; clay ⇒ idite  
py ~ 3% diss (v.t.g.)

Strong play altn of 542-543, 527-538; crumbly.

547 coh.