092I/06H, 11A

ARLINGTON 896285

ARLINGTON DRILLING DRILLING

ARL 69-1 Agglomerate throughout - get o/B + depth o/B 270' EOH @ 902.

" 69-2 Granitic - check rock type
OCT/70 Bsda throughout (Skeena?) o/B 5.5' EOH 446'

" 69-3 all "tuff"
o/B 11' EOH 502'

" 69-4 Granitic rock - check / Skeena → Bsda + tn?
o/B 14' EOH 507 all Skeena? or possibly some Bethlehem near the top.

" 69-5 all "tuff"
o/B 71' EOH 1198

" 69-6 mostly agglom - check 417' area
o/B 80' EOH ~~1116~~ 998

69-2 spot checks Box 19 Bsda
Box 13 Bsda - Big Qtz eyes, mafics 7% - bi.
ARL 69-2:327

changed my mind - call it all SKEENA (compared to 69-4) Box 6 Bsda ARL69-2-132 some pink zones.

Box 1 Bedrock at 5.5'
Bsda ARL 69-2:29

Map-loch favara Bsda 25/3/71

69-4 spot checks Box 1 Bethlehem - altered, veined + lots of pink in matrix locally 2→5 Lots of shearing Sample @176

Changes to consistently less mafic rock at 50'

Qtz-ep-hem. veining 15 Skeena sample @323 Sample @414

Qtz eyes occur but the Skeena mafic texture remains

Arlington D.D.H's

→ 69-2 Rock of mixed Bsda-Skeena characteristics

→ 69-4 Starts in Skeena (Bethlehem + changes almost immediately to rock of mixed Skeena-Bsda characteristics.

(compare this core to C66-5 and samples from trenches north of Alwen's Camp)

→ 69-7 All the core is the rock of mixed characteristics.

ARL 69-7

ARL 69-7 24 OCT 70

O/B 40' all one rock type – no mineralization seen — SKEENA ?

40 - The rock is apparently Skeena Qd although it has qtz eyes + is therefore sim. to Bsda. Sample @ 317

From 40 to 600 the rock is extensively sheared (more than half is gouge) at 0 - 20° to core.

Mafic content variable

Sample @ 420

A thin buff qtz eye porphyry seen subparallel to core at 523

The c. R. at 600 is mafic-poor w. qtz eyes - Bsda ? Sample @ 617

600 → lots of pink in the matrix, anhedral qtz + qtz eyes large + small mafics in 5 - 10% range

685-688 (25° to core) bx zone - pebble-size frags, sandy matrix

800 Gouge again, bx zones 30° to core to 40° to 968 (EOH)

968 EOH

samples
~~648~~,
748
964

ARLINGTON 69-8

OCT 25/70

0/B 100'

100 – Agglomerate frags 15 – 25%
Mostly volcanic and similar compsn to the bi fs bty matrix. [Sample @ 198]

277 Mud layer 1/8" @ 25° to core [Sample 6]

278 cg skeena fragment several inches across.

around 500 there are areas of fg mat'l with no fragments (no contacts are evident)

522 fg zone 40° to core ??
[Sample @ 531]

662 Layering (mud zone) at 50° to core [Sample]

778 Matrix changed color from buff to red + bi-fs volc frags become fresher [samples 778 and 790]

changes back @ 804 contact 30° to core

ARL 69-8

860-870 Has fg zones, layers crossing agglom. sampled at 30-40° to core + a dike??

of bi fs ~~rock~~ rock sampled

900 Pebbly agglom. becoming more prom. again

—— to 998 EOH ——

ARLINGTON 69-9

OCT 25/70

0/B 92

92 - 329 Bi fs "Tuff" layering 25° to core at 98'

30° to core @ 160 [sample 159 237]

329 Tuff + agglom. separated by a fg muddy layer subparallel to core [sample]

The rock is still basically "tuff" - no other agglom. seen after 329

390 color layering 0 → 30° to core (30 more common)

by 450 the layering is fm 0 → 30 + avgs 20°

478 Tuff - agglom. contact [sample]

The contact zone is irreg. and mottled but low∠ to core (30°?)

after 478 tuff + agglom. are interlayered (the agglom. may be simply derived fm the tuff [sample])

Layering in "tuff" shows evidence of "swirling"

Ard 69-9

— Tuff + agglom. intimately interlayered.

Sample of layering in tuff 556

By 530 Tuff predominates again

580 Layering 0 → 30° to core
rarely to 45°

720 Agglomeratic zones again
to 730, 770 - ~~780~~ 800

Layering in tuff not evident
after about 700 to 800

800 Layering 30° to core
840 " 80° to core

Sample @ 858

930 Layering 70° to core
940 agglomeratic area
to EOH
970 Layers @ 30° to core

Sample 1006

EOH 1007 Layering still about
30° but pinches + swells

EOH

ARLINGTON 69-10

0-70 OTB

70- agglomerate - mainly volc frags.
Much of it has pebble size + smaller frags
muddy layers 70° to core
~~to~~ granitic frag
sample @ 213'

285 The frags are up to 2½" across + granitic frags are common
sample @ 327'

By 330 granitic frags are uncommon

320 area frags elong. to produce layering at 40° to core
(Elong. by erosion ? during fluidization ??)
sample @ 403

almost all frags are the same compsn as the matrix after 330

470 Layering 40° to core
504 sample
Layering well developed

ARL 69-10

650 Matrix of "tuff" reddish
Layering continues at
~ 40° to core

Sample @ 702

Near 680 the rock is becoming a true
agglom. again with 5% exotic
Volc & granitic frags
continue to 750 then
reddish layered "tuff"
again. Layering 50° to core.

Sample 781 epidote? veining

834 Sample of laminated
fg "tuff?" layer at
40° to core
Layering well developed
820 – 845

856 Granitic frags becoming
very common (up to
50% of the rock & up to
10" across).

872 Sample

ARL 69-10

Frags may be Bethlehem but not for sure

Granitic frag.-rich zones are interspersed with tuff zones (layers @ 40° to core) to 940, then in box 39 granitic frags zones compose only 20% of the core. Box 40 (993-1016) one granitic zone is 2' wide + gran. zones are 50% of the box. Box 41/42) Granitic frags 8%.

Box 43 (1063-1088) - Gran. frags are porphyry? (sample 1076) and altered Skeena.

Box 44 (1087-1108) Core 50% granitic frags - Bedrock shot through with flooded zones??

sample @ 1203