

27

Wales

Cymru

Siluri stratot.

1991

RE

Feini

REIN EINASTO

PÆVIK 27

SISUKORD:

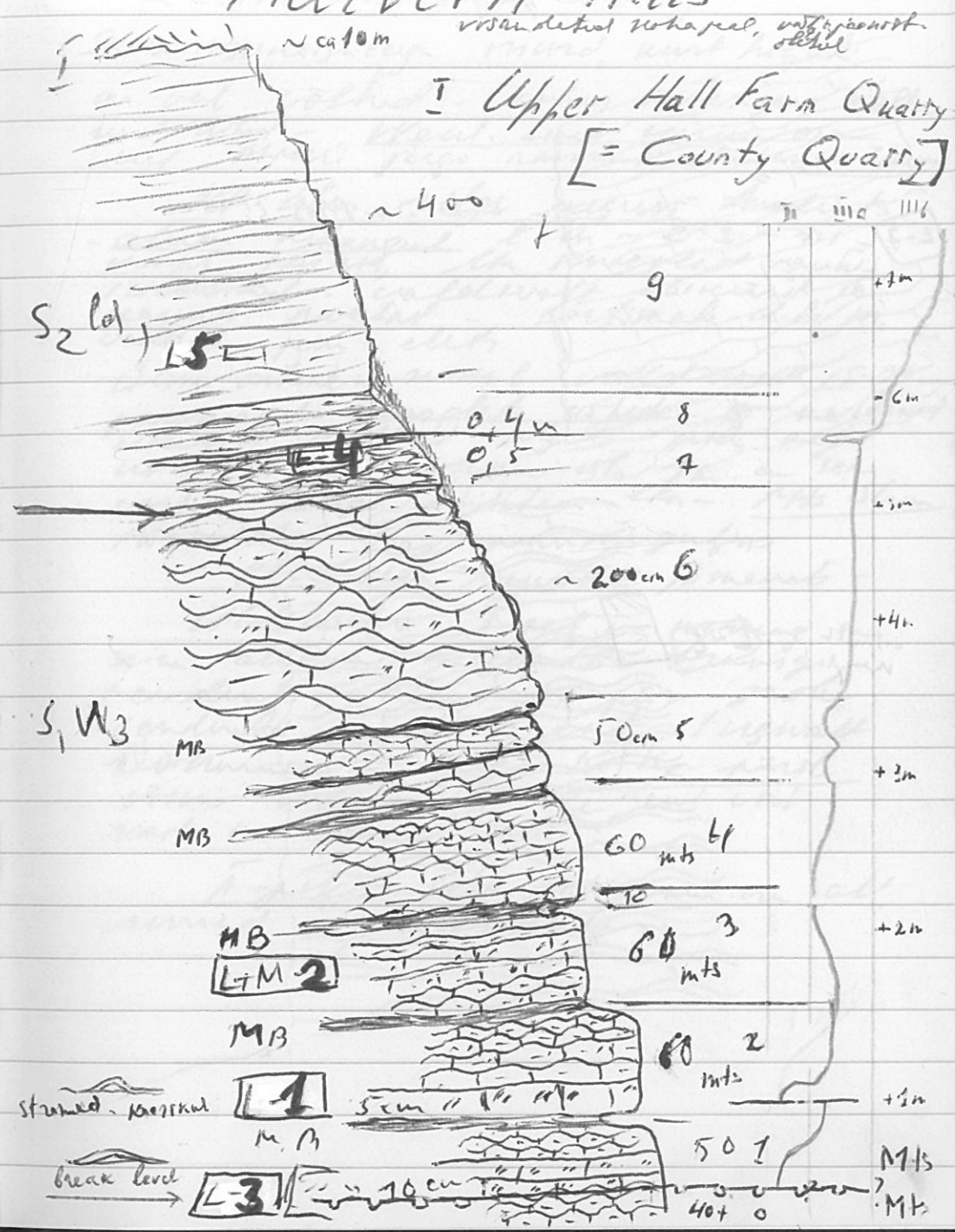
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Mälu järgi ohtul loetelus:

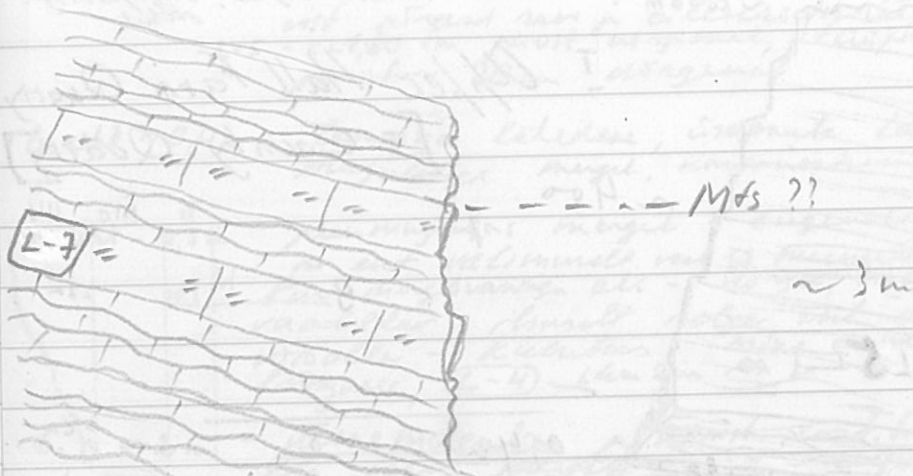
- 9. kiht 9 > 4m kollakasvalgeid siltstoon - rümpel ja rümpelid
 and rümpelid miks laminatsioon "merglist"
 rist kihtude sarni ja eelneva siltstooniga
 L-5 - ca 100 cm püstis ürgmael, tüüpilisele alusele
 püstis ~ 20cm ürgmael
- 8. kiht ~ 0,4m: lammine lüüsi, sarnane lüüsi
 mugulaga murgel, karbonaatne
- 7. kiht ~ 0,5m rümpel mugulaga murgel - tugevalt valge
 murt välimusele veel ja meenutab
 Pärn mugulaga all - kõrgel, halvasti
 vaadeldav - rümpelid selge ent drossi pole
 võibolla - kalutuse? Mike ei usun
 Lõngasse, (L-4) - kum 2cm ka la all murgel
- 6. k ~ 2m - jäme mugulaga püstis. silt. ta detegem
 ka, uus murgel ~ 1:1 - selge HO
 leevend ovaalid lüüsi mugulaga
 mugulaga - rümpel HIR ja J
 sarnane oad - selge väline oad,
 silt. lüüsi (sarnalt)
 all MB-murgel 2-5m vahetult
- 5. k 0,5m järgne rümpel (MB oad) rümpel
 - rümpel rümpeliga L:M ~ 2:1
 valdavalt siltstooniga ühel ja all MB
 rümpel
- 4. k 0,6m - lüüsi rümpeliga siltstoon all murgel
 võne jämeda rümpeliga
 lüüsi rümpeliga, rümpeliga - detegem
- 3. k 0,7m - lüüsi 10 cm MB murgel, mis 0,2 m
 lüüsi rümpeliga detegem ja lüüsi ja rümpel
 vahel -
 (L+M-2) - murgel rümpeliga, lüüsi rümpeliga
 rümpeliga
 Alvasi oad siltstoon - rümpeliga
 rümpeliga
- 2. k 0,6m - lüüsi rümpeliga detegem sarnane lüüsi all
 5cm lüüsi rümpeliga, vahetult oad MB murgel -
 murgeliga - rümpeliga (L-1)
- 1. k 0,5m - lüüsi MB murgel, mis rümpeliga - rümpeliga
 all 10cm lüüsi rümpeliga - siltstooniga
 alumine lüüsi rümpeliga - lüüsi rümpeliga
- 0. kiht 0,4+ lüüsi rümpeliga detegem lüüsi

P. 10. 11. 91

Malvern-Hills

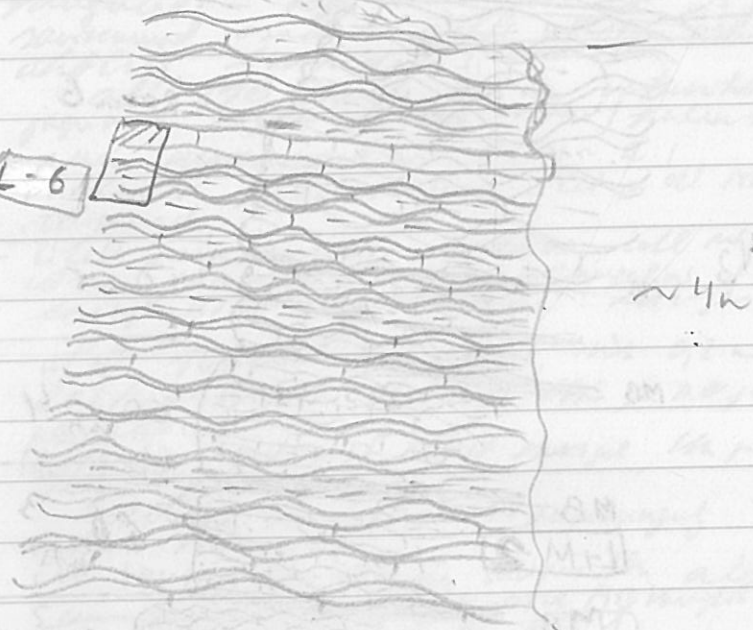


Mala jägi õhtul



erinevalt
muist!

L-6



II Eastnor Castle Quarry

Sarve rünnakutele mure, kust kõrgus
on veel võlud - kahes astangus kella-
mud vööd - West. Luit vööd on
ent mure järgi rünnakute lühenemise tõttu

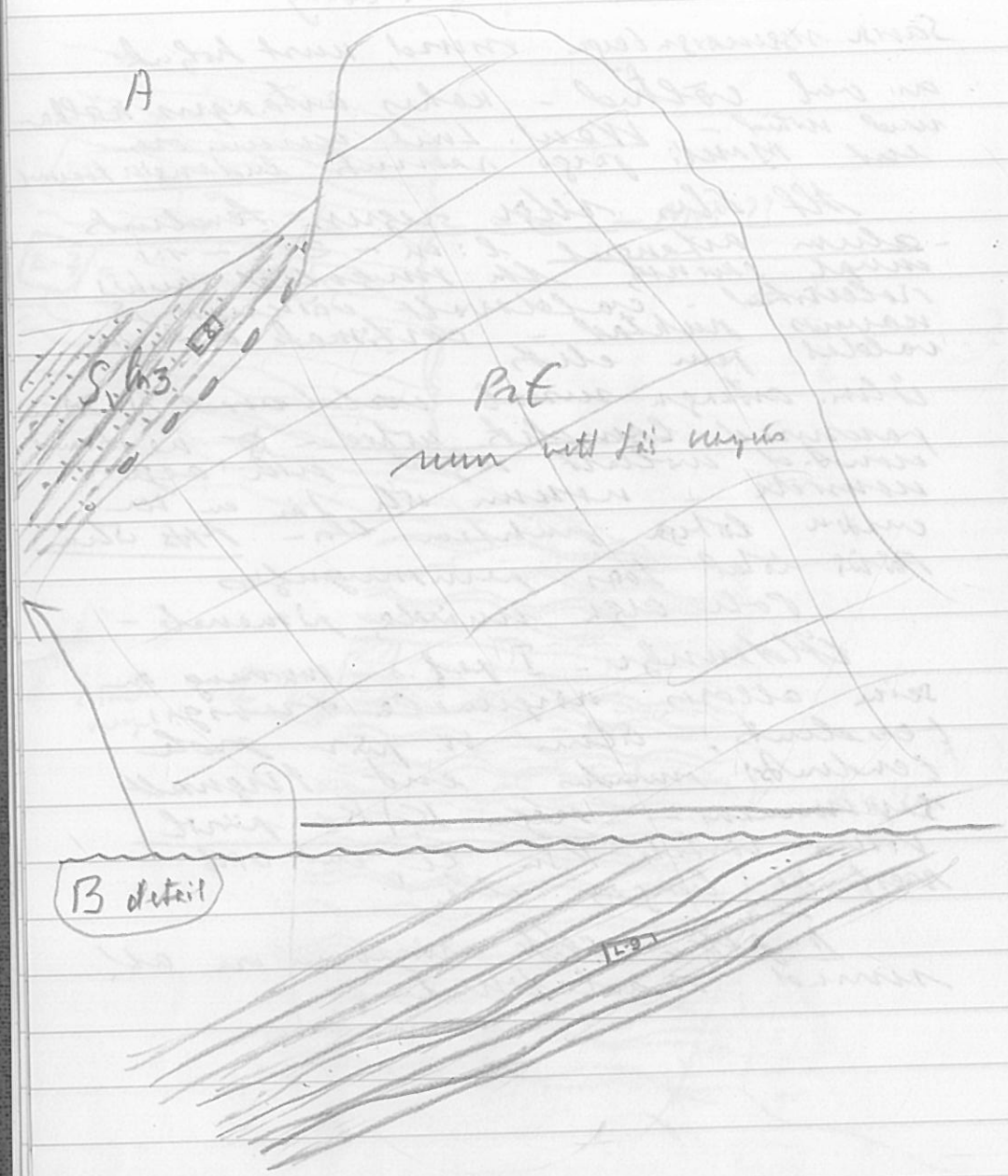
All oleks selge rõõms tendents
- alum astangul 1:1 ~ 2:3 - 1:1
mure rünnakute, ka muredele rõõms
rõõmskud - valdavalt väärmed ja
nõrgem punkad - cortinaki. diti- ja
valdas juri elis
ilms. astangul mure valdavalt 15-20m
põhised lühenemise vööd - neid vööd
mure d vöödalt selge mure aeg
murede - murede vööd ja mure
murede kõrgus punkad ka - murede
Põhised lühenemise murede
Põhised lühenemise murede, murede -

Üldmure - I pef. o murede on
seine allas, rõõmsle tõrvi.
tendents, alum W pef. rõõms
tendents: murede ent tõrvi
murede - rõõms K, Ke pef. rõõms
vööd vöödite K, m. Ce, ent vööd
murede murede alle.

I pef. - rõõms rõõms on al.
murede murede.

Mätkä järvi öhtul

A



III Gullet Quarry, Palvem Hills

Tahista Pit massit on rullustun
 ympäristös latti korostuu alustan o-
 jään - väge iten vaaide okeista
 maatt alla - J - maad solmepint
 See on lähtelyammas vohd -
 S, luvz terisig lausib boraeluoglon se
 otri rundolemmet - penumment m
 pelgandab - 0,7m mea, total 5-20 m
 penumnt punu liives se aluvul.
 kestior. vohd vehelakunnu Inmide
 mozeunja argoll ga. Liiven, alun
 punned brekshentud

Sagub Gul - vired [L-9]
 Himmertab vohdanku ja vohdopetus
 - un mthi ten broditse porditohy

11.11.15
22.15

11. 11. 91

Kogu päev Muuseumis uute saamatute
bibliograafimärgi, koopiate tellimise

11, 12, 13 - MUUSEUMIS

Muuseumis peels'ide vaatamine

Gotland

Stora Karlsö

Pe. 90/46 → 90/53

rad. mit. põh.

↓ Fluviaterraad:

- enamia - uusia lüa lam-
teebud. rüfki. eelne märs
Carutusi vööd. ka mõned
kontinental-ditritjad.

90/38E - sortimeta (üksortid) kiim. graatid. mitk
fraga dit. x pellatid M ~~XXXX~~ ~~Y~~
mass-d kärjed vedrad ja puned. Solings
ne mitpidid - ditritid, neakärjed
mitk dit. punem. kiim. eimardelud
kõrg nurmed - ova. sammal ja mass
vedrad!

90/39 - mitk sort-fel. all ja ülal n. ten
valdavalt karpal + osh. Br. mis pun dit
immed suuk-lüa vedrad 95cm
mured vedrad ja pööratud dit
enam. kelt. ten enam. tompid vööd
veised mudel. ja p. pöörditjad,
väga punakärjed mass. vedraid

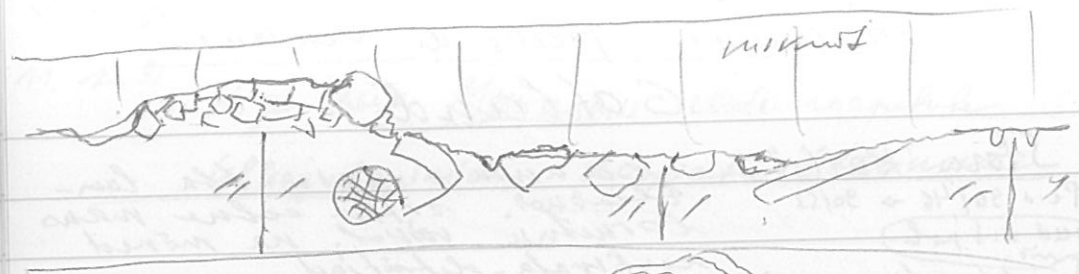
90/42 - brom sammal - lüa - mudel. juba
ehte unat. kiim. mass. vedrad -
tüüpil. pronstausone osh. sammal
paccitoni - ditritid vööd. Arhido
vöödud

90/49C - tüüpil. Stylobona. tentakel. lmit
- ualib frum. ja ~~IB~~ ~~8~~
- väga suuremad 15, vt alumi
ste lüa tentakelid lüa

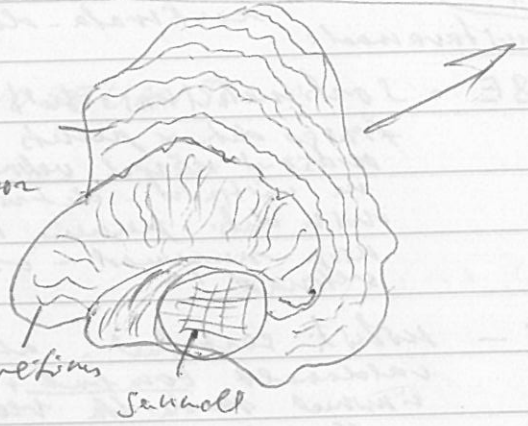
90/47 - tüüpil. sort-fel. uuna imardelud
uuna. lüa segedaste Brh. pöörd
frum. lüa pöördat- ja M. sammal

90/57 - sort. ja jämede dit (uuna) imardelud ja
- paccitoni, vööd ~~IB~~ ~~M~~

Lilla Karlso 90/54 - 90/57

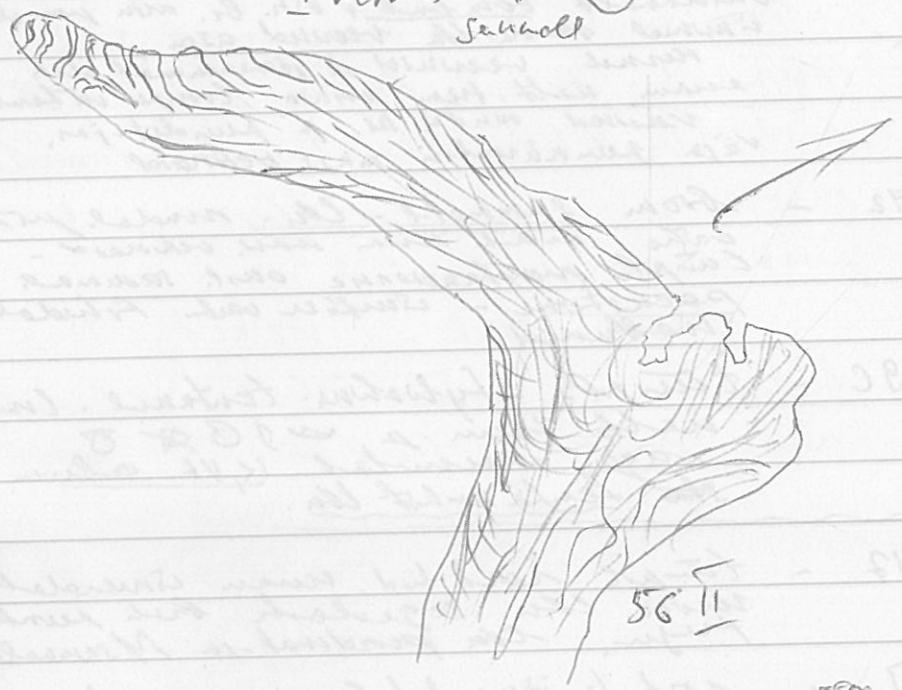


fäpöl
onnel
reuvuon



I rekims

sannoll



56 II



57A

90/54 - väga suurte sort-fa mudal. põlviga -
iaa plus onnokit sammol-l 2x veta
nate põlvideh. vasa muremaa
out. M. veta veta veta veta, peab
peenu! dhp - vasa vasa osti -
kogu olu Mh karjal - veta on
pacud. pel dim, vasa muremaa
- vasa vasa. karjal, dhp. veta, vasa
jated ja veta veta ent kalg tien
laasid, peen en veta vasa vasa

90/56 I fäpöl põlvideh ja mikroost põlviga
sort-fa. Seened - B B M &
peened j & y &
seened veta veta. pacud vasa -
veta veta, peen dhp vasa vasa.
veta veta.

II - väga peen vasa ent veta veta
sammol veta veta veta veta
on sama veta veta, ent veta veta
veta veta veta veta. veta

III - flovellile. Paasid veta veta
veta veta, et veta veta on veta
veta veta veta veta, peen dhp
veta veta veta veta veta veta
Seenu peen veta veta - laasid
veta veta veta veta veta veta

90/57A - sort-fa laasid veta veta
ja veta veta veta veta - veta -
veta veta veta veta veta
veta veta veta ja veta veta veta
veta veta veta veta veta
veta: mudal. veta, veta, veta veta.
B - mudal. veta veta veta veta veta
veta veta veta veta veta
veta veta veta veta

MB * Gofthlandens beds highly normal
over beds below

Suder Vagnhus - cliffs by sea - v. thick bedded
8
bedding + uneven limit with thin
marks (holes) heavily bioturbated
rock on broclark.
90/58 A - 4 cm bed
from 2.30 cm
above bed
with Pent. gottl
mainly limit
Large pentamide confirmed as P. gothland
common in sand & many in top posit.
not stacked, not clustered

peel: halvert sort. lud, valdarell pen
toothbrush-detr. thin, pink, walt. tree, wet
slavet muda. Small halvert-antubated
1^a not much psammite. α & β & γ & δ
B - valdarell muda. sort. ta det. 5cm irregular sev. ch

90/59 - Vaster bogst (N of Suder Vagnhus 50-room)
P. gothlandens beds. Dominantly thin
bedded, broclarkic limit + marks.
Many tabular limit

90/59 A - 9 cm broclarkic lit from P. gottl bed
peel: lensorted / medium sorted
broclarkic - valdarell (predominantly)
& regular untabular in marginal
no subtabular (etched) - 50% walt. a
as β & γ - alum cen fine small
untabular & mudas, mixed walt. or
or
kirist 20cm on larguki ne
walt. firm, det. in marginal, resist
vett mitu (α & β & γ & δ), pindlu in
coupe
ilens are from commonal tree,
det. alleneu - in P. gothl fragm.

B I - same, walt. peel - muda, thin - packst.
II - nagu A untab. in ilen or - potit. det.
nagult sort. lud, β & γ

Norden Vagnhus - immediately N of
90/60 A - sort. ta firm min thin - walt. firm,
mudk muda
5cm bed of broclark. lit 2cm below base
of ground.

B - 11cm bed 60cm higher
all lensort. walt. firm & β
ilens rare percent. muda, rotu -
un coldand ant. samuall,

90/12 E 5-7. uolt leupandit, naavamis-
tombaks - jand, otk, ka + vaasool,
purinat

F 4. uolt braamysia muksi - leupandit, - tomb
vedavlt. - va + naavamis-
tombaks leupandit mek na
uolt ahm pinnalt otk.

G 3. uolt - broclarkit - vaasoolt kaavamis-
uolmuga uolmuga pinnal
vage eppaku naavamis-
pinnalt!!

H 2 uolt - broclarkit - tomb. otk, all
dit - pas kort - ta, etal paku M

J 1 uolt - viedye broclarkit - janne - uolt

Päri

90/13 A - pinnalt - pas jätmedet - pa lhu kortu -
mud naavamis-
pinnalt - kort - ta -
janne & M, pinn J + tomb

B - tüüpl mugul - m uolmuga,
kort - ta detras & M

Paavamis:

90/14 A - tombuline (vähv, afa) otk. det 1/2
pinn

B - pinn, pinn, uolmuga, all
vage lõhku otk. det. otk. - ta 1/2
(2. uolt.)

Valgu

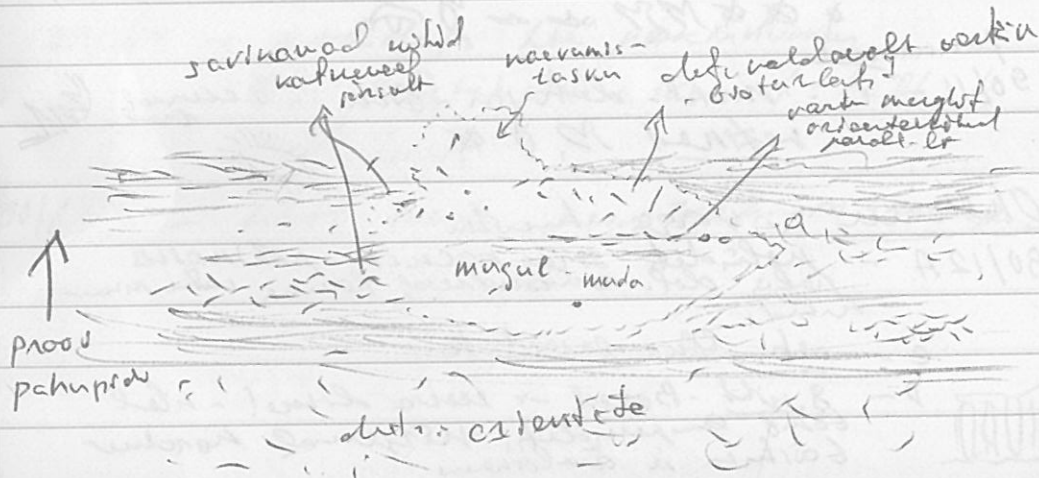
90/15 A - P. of lensu - hie bored
pohmas ololon. & caamster

B - vltok otk, kortvack dit pas
ja aakult - pinnalt - pas, paku &

C - meks lhu uolm. naavamis
- otk. otk. otk.

D 1/2 1/2 mugul - pinnalt - pas waasoolt
oht laktipalt uolm. - kort
vähv - sen mugul & M

NB: Mugul on ettevaatav, mis ümber meele - naavamis-
pinnalt



Lihtvõre: Mr Michael Lambert
Peelid: Mts.



Peelide vaatam. jätksümme, K. 13. 11. 91
üm. lihma elutunde ahist. enpääreit.
10⁴⁵ → laboris, teeme peeli -
1) Kivi praav → 30 osu 5% HCl → 2% NaCO₃ + H₂O
kesk dist. veega,
2) kivakorda
3) atsitooniga üli valada ja atsetaatsifiln
peale kleivida - 15 min aadot

Högnlönt

90/16B - hästümarid. hõõngid (maas) - taluseni
liht all - nõelid. Δ x P x tumbad
mammüt Δ, murgelrad. vesised (võrreid)
90/17A - väga huvitav poliitil. püs, vabal umala.
võrreidata massid mis vekiavad!
Δ x P x t

17D - laundik. tiki paaritud - umm,
+ semuall

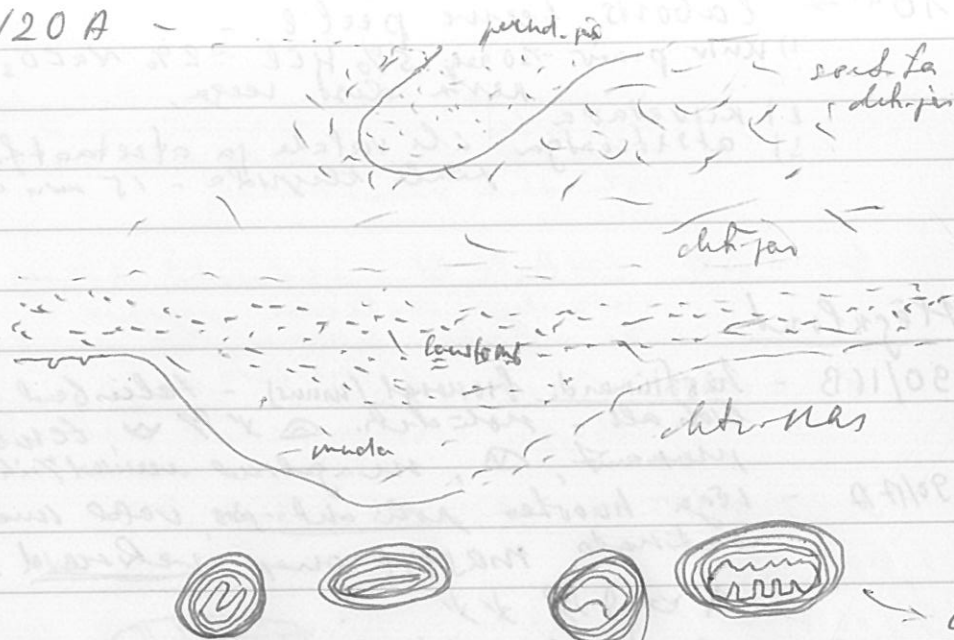
17.E - 3cm üht Högnlönt all megas
laam. tomb. püüdik, mis sord. ta püüd.
pälgü peenim si. hõõngelad graahter
Δ x P x t, min. vesised, k. tehesd.

90/18B - 2m above base of cliffs -
5cm nõelne ühtilise laam. tomb. det. vater
lilal: sõrreidata järeideti tombelose
isaknassu - tehesd Δ x P x t
v. Huvitav
murd 1cm asemel tombel värvend
umk. naidis, vesi stal
alum. nait. feni, eidiiale
All: - sõrreid. det. vater. kum. umu
lilal tomb. vater. lüüdi
hõõngelad Δ x P x t
vesised < 1cm

90/19 - tomb. püüdik. uelb. kum. silte?
200m kaug. N. to Wecklan chendi

Klontu 1 km N of Froyel Church.

90/20 A -



Ed. David J.M. Macdonald:

Sedimentation, Tectonics & Eustasy. Sealevel changes at active margins

Spec. publ N 12, of the Int. Assoc. of Sedimentologists

Blackwell Sci Publ. Oxford 1991

518 p

Klontu 1 km f Froyel Church

90/20 B - fiiipil uot-fo dikh-jan saer.

uol wolla tassu. terava
pindohje pees elena olta

All fuzer uke. Casagos noje pu
olwa nulli oo lacen all mudra
uol lowlandol. pindohje.

B - uot-fo dikh-jan ka ammunka reedje
pindohje. uot-fo. 00 00 00

C - dikh-jan olwed emi-fo ammunka
- mugula uotant

90/21 A - Bergsvin - uolst aluwolol. uot-fo pu

B - uolst. aluwol. kas ficut. teravunon

C - jone-ool + oanol 1-2 cm uolstolone
uolstolone uolstolone jone-oolone
aluwol. - uolstolone uolstolone

D - uolstolone uolstolone uolstolone

Eds: V.P. Wright & M.E. Tucker

Calcretes, Report series v 2

of the Int Ass of Sediment. sts

Blackwell Sci Publ 1991 352

90/21 F - saer kant lacuna hestri
uot-fo. ja uolstolone aluwolol
(uolstolone uolstolone uolstolone)

ja lacuna uolstolone uolstolone
uolstolone uolstolone uolstolone
uolstolone uolstolone uolstolone

G - uolstolone uolstolone uolstolone
uolstolone uolstolone uolstolone

H - uolstolone uolstolone

90/22 B - väga hünar-süürid ceidlad
väikese eenduse põlv. valts tüu

90/23 A - Hamme
marly list narglisa fõididid
leuvad neluvasitud - vähe-
mehit. põne diti. id fõidid - väikene - peit

B - väga ilus broom. lüu jämedate
leuvad. hõõrdetõpe hõõrdetõpe
- väike all mude, mude
võit. hõõrd.

90/25 A+B - väga jämedate-ai üm lüu

90/29 Bungsõrg oolud - väga hünar
võitid pind - süürid ool.
põlv. põlv. võitid. hõõrd. hõõrd.
mõit. aluuditi. hõõrdetõpe. peit
Eenduseid in lõuad - väiksed

Hamme

90/30 C - rüü - te diti per saamis, fõid
hõõrd. hõõrdetõpe
x x x x x tent!

90/33 A Rõõruud - lüüdit - x x x x M
hõõrdetõpe Lauterhõõruud

B - tõul - hõõrdetõpe - lüüdit, väike.
võit. hõõrd. - põlv. hõõrd. väikene
x x x M

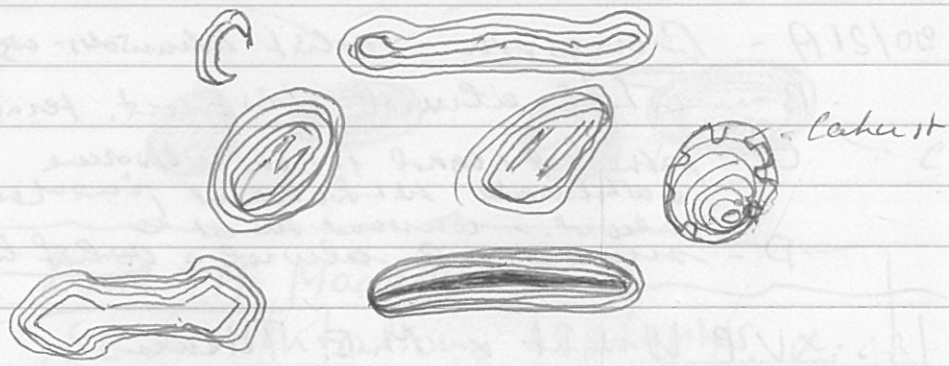
90/34 A Slärhõõruud - jämedate
üm lüu M x x

B - hõõrdetõpe x M, x x

90/35 A - peen tõul väike diti.

B - tõul + " " x

90/36 B - Põlv. jämedate hõõrdetõpe
- peen. diti väikene - hõõrdetõpe



90/37A Diguhõõruud - hõõrdetõpe, väikene - hõõrd.
B - tõul põlv. hõõrdetõpe, väikene

90/38 A - A hõõrdetõpe üm hõõrdetõpe. hõõrd.
hõõrdetõpe

Koppelshamn

89/10 B - Quarzfels - much local calcareous
Lohrland purshod. - Zäolite - fombol
dih. dielt mks. valat pelits

C - same fombol the several very small
vögelstun vekneg
miter frol. not aalt. f. fester veknitied
om. us 88 & 89

D - small basal + wlm vent tumb-purd.
several in several dets ja ltn

E - Caustomb + fombol. pin. ussk-d

F - small ltn

G - väga rler small ltn pin-tomb the several
vekneg

II - - -

Slite solstom? Nögulat c?

89/11 A - fombol-dets mmowhol

white > 10% dets 88 &

B - 80cm vögul - roit. te puruss-dets
mmowhol fombolpin 88 & 89

C - same: massel M 88 & 89

E - Progradul M 88 & 89 Caust solstom

seiti solstom

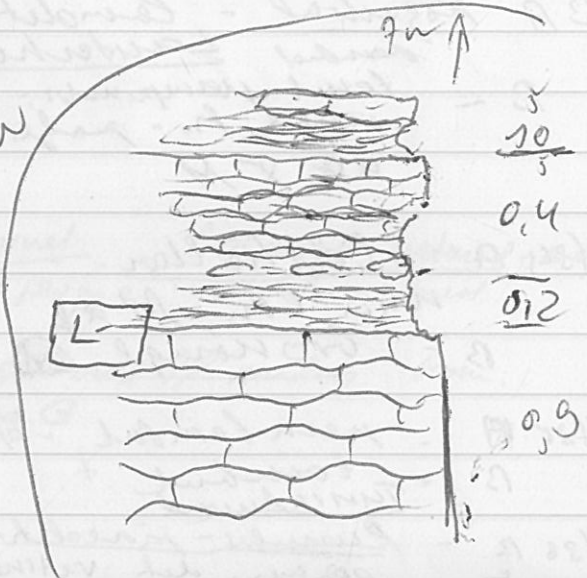
89/12 A - väga pin. horizont-hel chleu
lt mmowhol.

B - same 5cm

C - lt mmowhol vaheld - valpi pent
ost. dets - ja pelek, ross - omst hol
1/2 livdelt on fombol - 10-11cm cece



D - 50cm unst - alim vent edaweg
seal low whlane, core pey vaki delt
youngest expos with destructive
polygonal weathering

Wahl det
Lund low



Heads then U. Vorty overlain by Högskint¹⁵
Borrowed beds

89/9 E Högskint - basal m - punnulis - det
tomb and cortimata, mikroskint
Högskint

89/10 A - tomb - punnulis - ne, same as ♂
protuberat, korrumindripud
1 onnel   mats h. punn
sticol. maganlined

10 B at ulm in

89/9 D - tomb - punn - ne, jameda det same as
& M & Y j vasa aliquid onnel
veance?

9 C - munda, sin detores vracent -> mikroskint

9 B - jameda det jous M (Y - imaced vasa
Lunakripud) periti tombul. Eski pluvial vrb.

89/9 A - tompe. det. jas ent. ta sev eta
uruk-ga

Solkint at Slife Lars Ramsköld Locality

89/1 A ^{MB 813} bedded marlstone - immediately above
is coarse gravel lay forming the
base of the bed part above this point

1 B Sub-bedded gravel ^{uniflorat}
Sortimata, last 2 halvats dward
regamru, mita voblar

M M & Y D & B? ne tompe same as
mikroskint - 'malt. hum.

89/2 Slife hiottet L. Jypren Lag
160 cm below Bentsvika N4 ^{pan}
kaevensu-^{kaevensu} ^{kaevensu} utze sord ta det jous
ventuol & v d

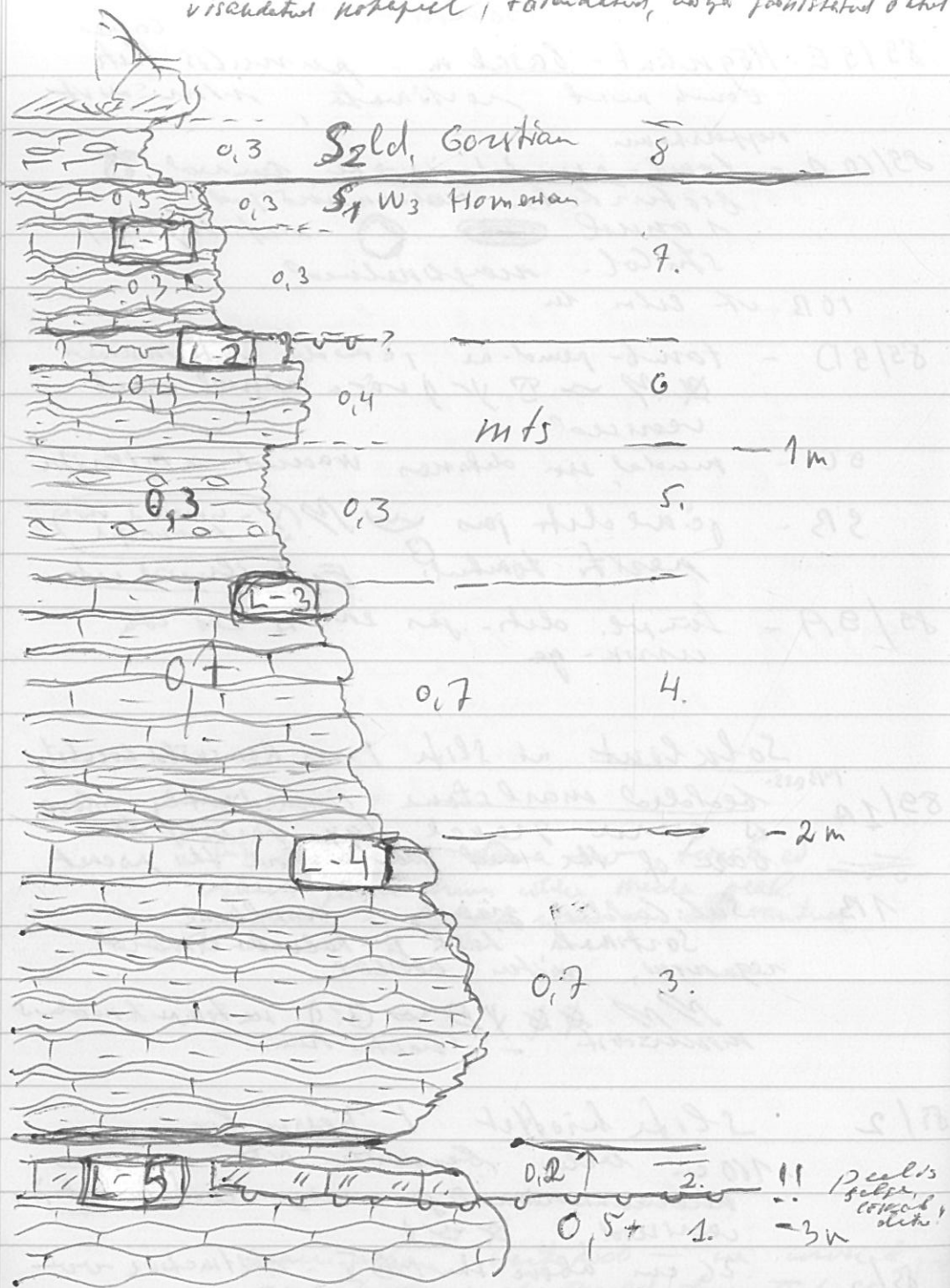
89/3 - 26 cm above the MB V - distinctive v-
all-cort. ta det. jous peal rendit. tombul.

sin vahel peal olama v- - foorh w =>
mass jame krum vika mada peal
retrode - pehane rek an de vantuol

pan olama vakt vob - ne unvred ! ?
druol vortuol, et sordet tompe tomb. s.

Uisk, Ton Farm Quarry

visandatud nõrgepelt, hälvendatud, nõrga joonistatud ohtud



UISK

14 Nov 1991

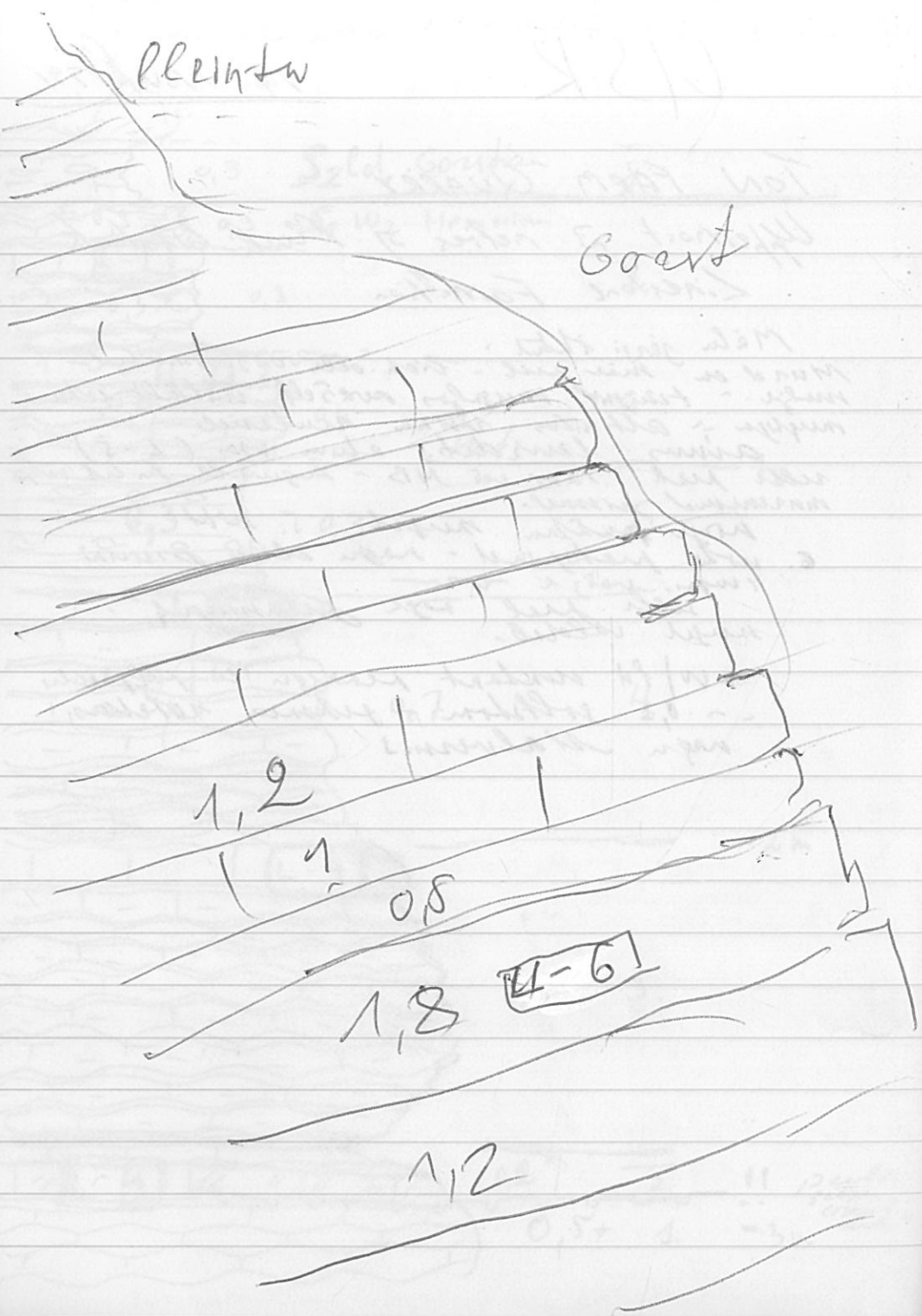
TON FARM QUARRY

Uppermost 3 metres of Much Wenlock
Limestone Formation

Mälu järje ihtel:
Murd on mür pelt - diak. alla võõra muudat -
mürje - täiendatud muudat -
mürje - alt võõra võõra muudat -
ainus levis det. alum osas (L-5)
selle peal rarr ves NB - taguselt teie võõra
muudat pelt.

noor pelt muudat 5. vlt
6. võõra pelt - noor alum pelt
imp. võõra -
selle peal noor pelt muudat,
muudat vlt.

vlt vlt pelt pelt -
- 0.3 - soltsom - pelt, võõra,
noor Malvern



USK - Aymurty Lst

Old quarry on roadside, 100 metres from LLANBADOC CHURCH Bringewood.

Pinenes, mätkä syi ottel:

Murel on mätkäzi zee - vapu-
tavelt usje ~ 25 m - 0,8 - 1,2 m
massiivne astegutere, mullik
vohel ohunered

[Faint handwritten notes and sketches on the right page, including some numbers like 10/6 and 10/8, and a circular diagram.]

89/4 A vägev terven lhm., lõikunud
lamina sügav - aaga, nõuvelike
ad - alu-jas, ^{eristat} detri-pi m

4B - H+50 - rool. la detri-s megluvala -
tööpvt mugubos, püü. uunika.

4C - vt - all peenditijon, püel srat ka detri-pi
püel soli, elafasem, saunel
muglup, lõikunud näarvunus -
võttud alusel

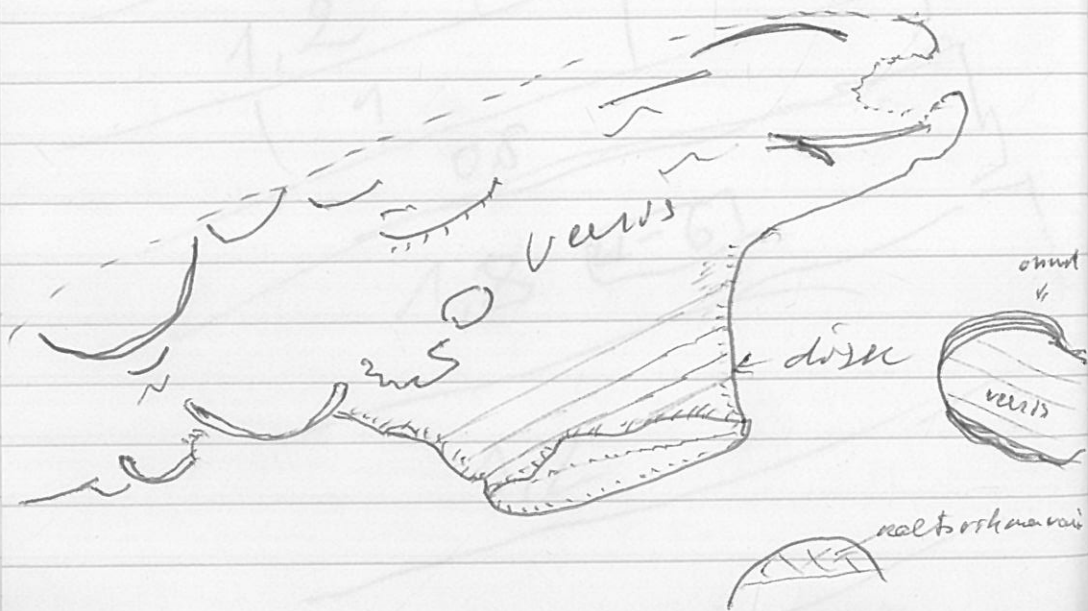
89/5 - 23 cm võgumel F bend-ist
ard-ka gran-deta toon pötm.
orient. püh. pihelut detri-pi
võet peht veenel - vunenur vlin
W B B D & M

89/6 - 5cm võgumel - sama krida, & püü
erum lamtoonk pötm 2cm vht
ilms. püü detri-s, vüelut; basalvtt

89/7 - 48cm võgumel - 1. megluvala lõtk-
võnol. & & & gümelit, vetruel,
veerel, mrtm, muurta

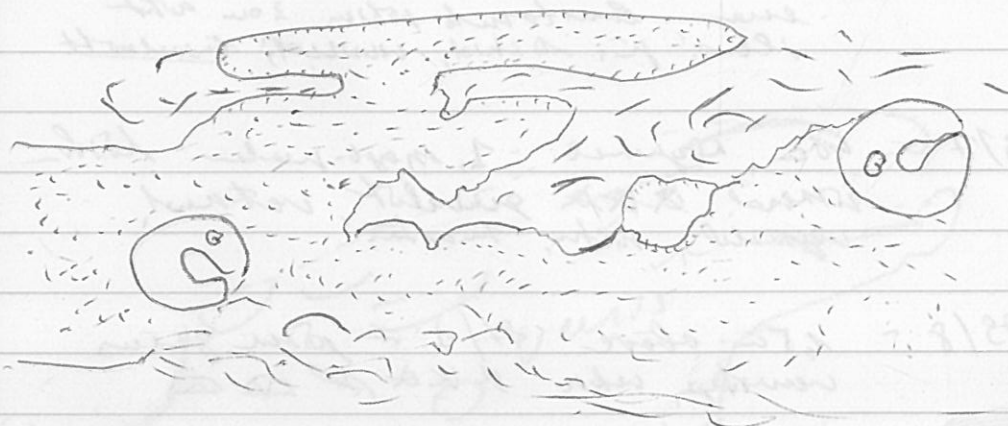
89/8 - 1.5m above 81/1 - püü grum
veerel, vht. & & & & & &

84/35 - erum korter nõuget püedist-
4cm vht b vchen - veerel selge
aluse tagumel, 75cm püü



laan keval met to

3x do p.m.



84/35 - pepaal nougel annol. se, massa indist
kaemel, veensel per rupi -
worn ou vage nougelsit per den
ou annol. kegel indist
ou stereitel

84/36 - vage houk, retikel veensel
annol. se veten akoustel
wort te houk alch. potwans
3 en knop retikel

84/37A - ou, all toubelev maedel se
retikel houk se veensel,
all se wal migel deh. jan
retikel annol.

37.B - sama akoustel potwans se!
veensel - nigemel Trypan retikel

84/38 - zuidel inwonder la, houk se se

84/38A - wort te deh. jan, migel se retikel
alch. retikel,
B - sama wal 2 en - all retikel
retikel tal se - wa houk se, 2x
se alch., summel B se B retikel,
1 en mimikel maem retikel ped
rely retikel se - akoustel deh. jan
wort te, wal alch. se se se
all se retikel se, retikel
retikel laan alch.

otse ferritro kumbe pings tige

I stop



or alpeed
Pom. Bed

II stop

5 5 cm next event base

15

35

20

30

20

40

20

F

vv

laandtas

vv

laandtas

laandtas

15. 11. 98

10⁰⁰ 20

LUDLOW

Excurs

Stop 1

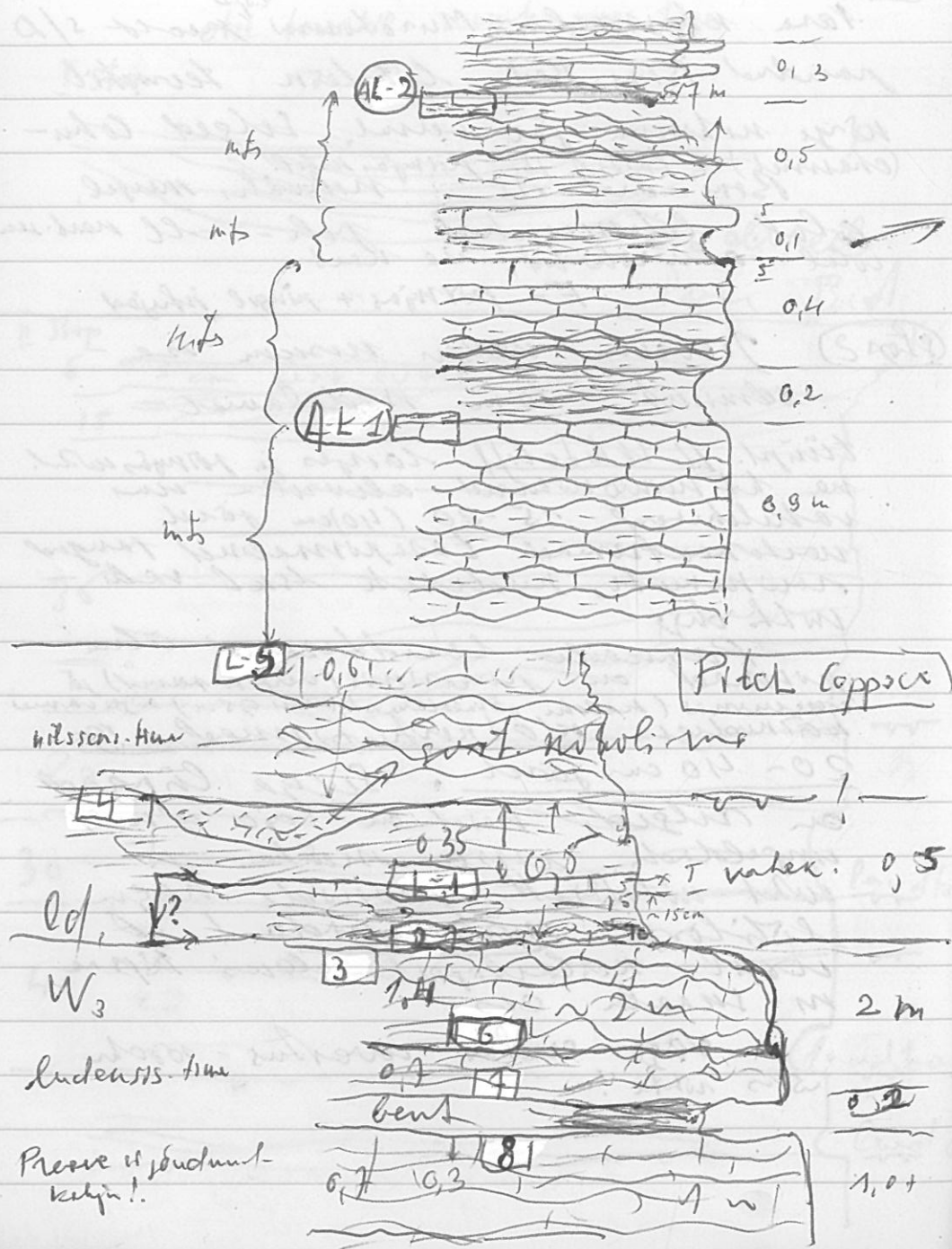
tere klassikal. Murchisoni peed s/p
pandud Pom. Bed latleem teemil
uuge uksime jõe veeni. Selged lohu-
(chamny) - taited 18 pöngas mool.
Pom. bed on - nõhvasti murel,
olul. lütkmurel jõe - all veeni
võal aluvõlvilid, ne veeni.
F - pöngas + ringel isujad

Stop 2

Jooveem uulgi uksim veeni -
kõnnut - 10 m madalamel -
tüüpil. II. Whitcliff laamis ja pöngas veeni.
na ht uksimõlvilid aluvõlvilid - veeni
vahelõlvilid 15-20 (40)cm jõe
uksimõlvilid laamisõlvilid laamisõlvilid
uksimõlvilid, murelõlvilid veeni -
uksimõlvilid
Pöngas laamisõlvilid veeni
pöngas on pöngasõlvilid (uksimõlvilid) ja
veeniõlvilid (uksimõlvilid, pöngasõlvilid, veeniõlvilid) uksimõlvilid
kõnnutõlvilid ka uksimõlvilid - 15a
20-40 cm jõe. Selge lõnged
on selged, veeni on veeniõlvilid
uksimõlvilid, veeniõlvilid ja
uksimõlvilid pöngasõlvilid veeni
lõngedõlvilid murelõlvilid! A
uksimõlvilid ka uksimõlvilid veeniõlvilid
m - uksimõlvilid veeni.

veeniõlvilid uksimõlvilid - veeniõlvilid
uksimõlvilid!

Middle W Lst ~~Indensis~~ Indensis



= stratotype for base of Ludlow Pitch Coppice.

Montimer Forest Geol. Trail Stop 2

Wend. Lst - 10 mm unguat - low alumae run on eff. int. open shell ~ 7 m

ridged (m) total 5-6 m pangool -> 20-10 m unguat > puny -> hem 80-60 m

L-1 08 alt mts p...
je lano m

W3 Lst 300 L-2 2.9 m
nicht

with mat wet 0.3 Lst
mer. v. bild

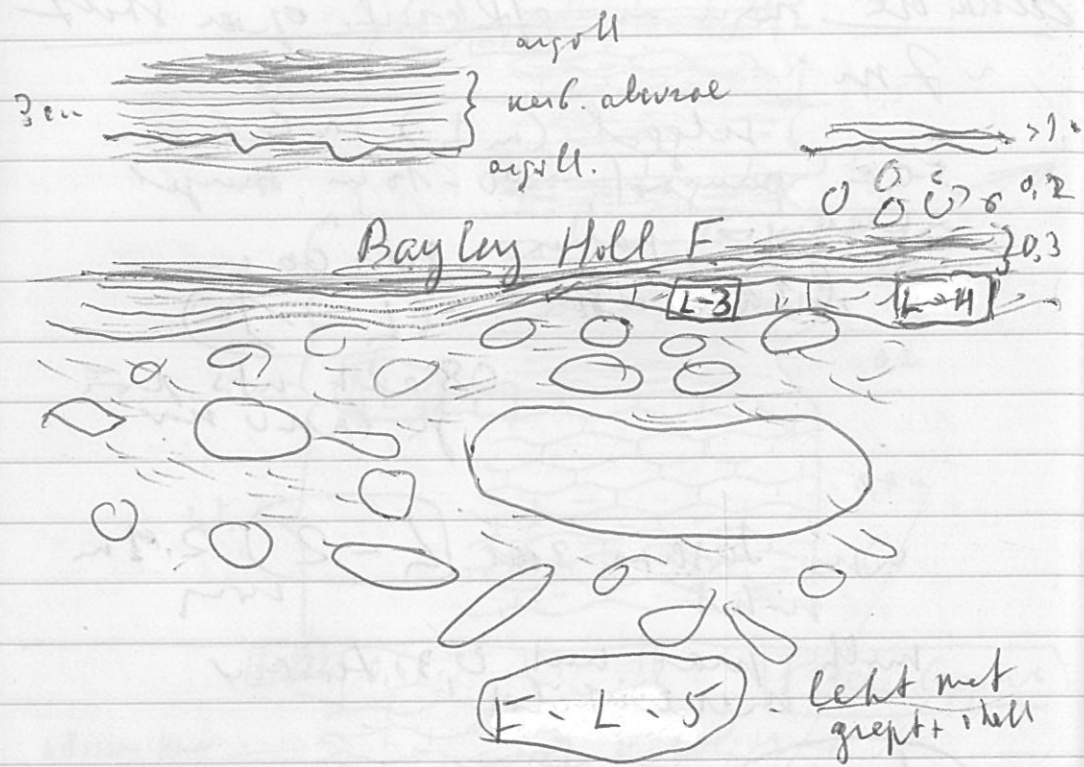
← Stop 2 W. Lst m

F - 50 m total

F - v. l. forest

Pit 2 tumpil - stem 2 m W megat
on even rounded, pen meg, ilen
milit per selget p... - m -
gulate.

Holland et al 1963 on p...
peal. See with an age selget casum lito-
tum... - see with...
megat on tumpil lano, etc...
W3 tumpil M-W Lst.



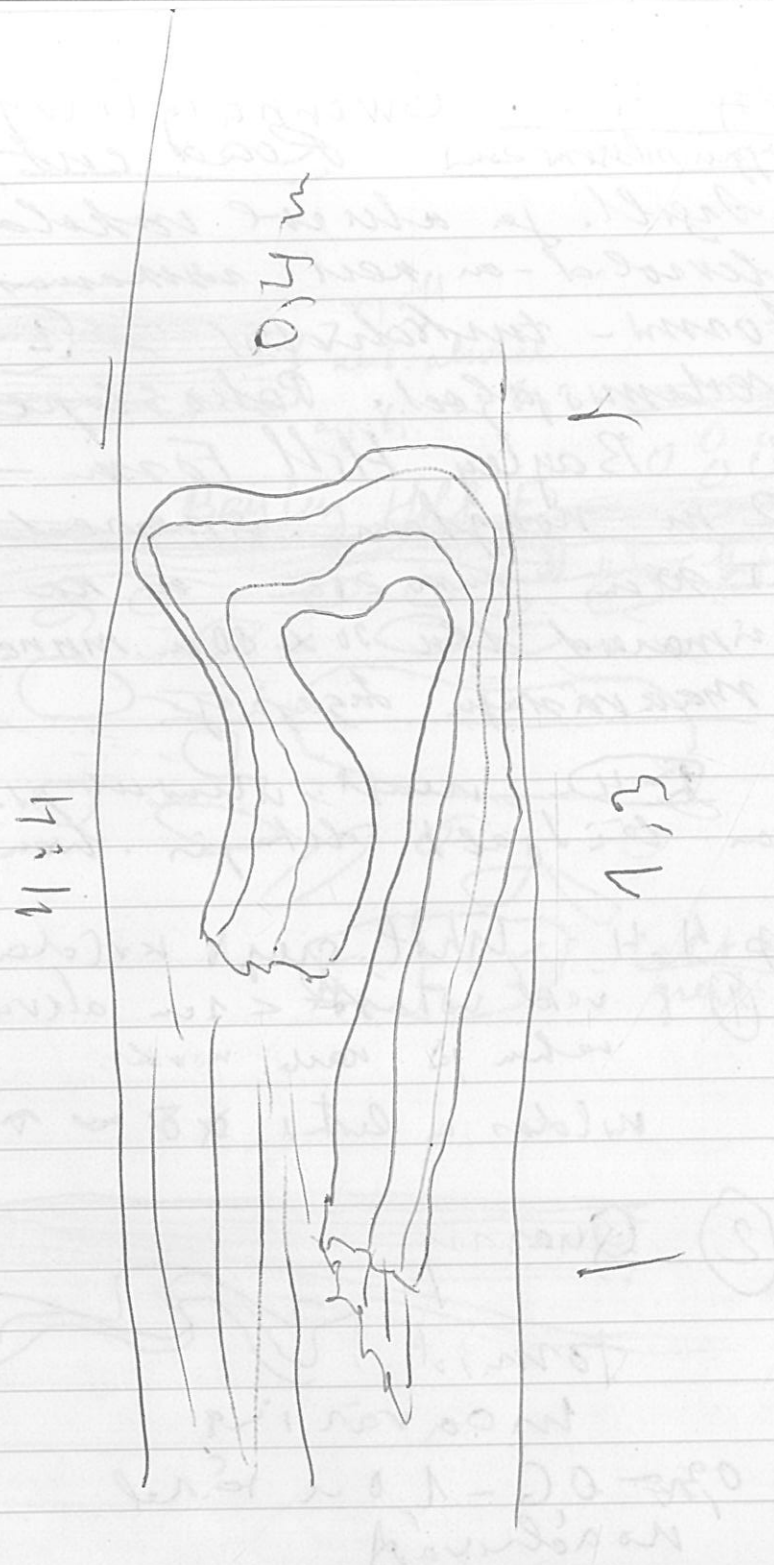
Step 4.6 Gwernang lhwyr d
 (yppu silsroms zoni) Road cut

argill. ja alveol. vaheld-
 alveol. d - an keel - vinnamaf
 - loom - turkolihvot - (L-3)
 Verlamu s p e e t . Pake slope
 Allpool: Bayley Hill Form -
 2 m kõrgloom - vinnareed
 5-10 m mür 20 m en ka
 vinnareed lhu 30 x 80 m müranarü
 - maavärinju tagajärge

(L-4) keel. vinnareed ja maa
 an teet ja l d d i t e j a n . h o n e n

Step 4.4 - liht. grept k r o d a d
 ① veld vahet < 1 m alveol
 vahet ja veld mür
 veldas an l i t h t

② Quarry
 toimid
 maavärin
 0,25-0,6 - 1,0 m tärnel
 maavärin



Step 1.1

- Toehood funbohidol -
- wh 1/2 mekunt or alloht -
- 1 Basin - heevus dnd
- SW → NE
- 2. A J W. McDonald - Gravity & mag
- C J N. Fitching - remnant of water
- or alk. anomaly volume
- 3. R M. Coranthis - Gravity & anomaly
- 4. Cape & The shut & setting
- 5. Old Rites on "cessed" to water
- 6. "cessed" extension - a would
- 7. Point to be the picture
- 8. "cessed" extension, where the
- 9. why had learned

WELSH BASIN meeting

16-17. nov 1991
ABERYSTWYTH

1. Welsh Basin paleomagnetism ^{N.H.} Woodcock
 Tremulous old Avalonia ^{from j. l. p.}
 towards Gondwanan ^{crust of landmass}
 O laevodist abs. caused fluxon
 500 → 400 mly Baltica is Aval ^{indicated}
 60° → 20°

2. A.J.W McDonald - Gravity & mag
 surveys of wells
 C.J.N Fletcher - ^{unintended} ^{correlation}
 on alkali anomalies ^{relationships}
 cross-cutting ^{relationships} 10:00

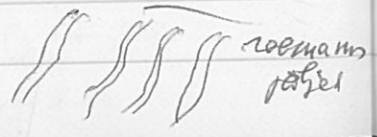
3. R.M. Carruthers - Gravity & aeromagn 10:20

4. J.C.W. Cope & . The s.d. & setting ^{11:10}
^{well section of the Precambrian rocks}
^{covered} ^{hard} ^{gran} ^{when} ^{arrange} -
 tundra in the ^{slab}
 Trace fossils ^{medusoidal type} ^{form}
 Sediments: ^{dolerite} ^{valley} ^{and} ^{Vendian} ^{seq}
 Old-Reds on ^{ryolite} ^{covered} ^{for} ^{ash}
 appeared ^{extensive} - ^{to} ^{show}
 Point to see the pictures
 penconcreted, volcanic-elastic adm.
 very fine ^{dissected} ^{rippled} ^{surfaces}

Ediacaran fauna

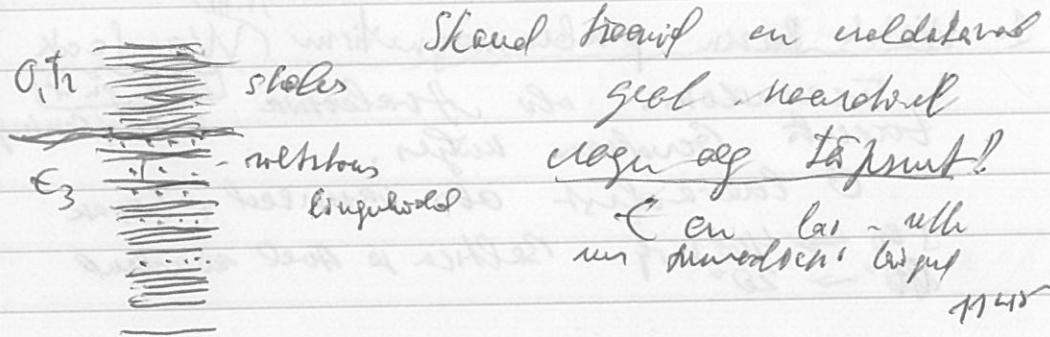


Vend



roemans
p. 121

hough. is buried interbedded with sandsh
 Dolerite - all volcanoclastic
 Very shallow water sediments - Δ bed flats, 1140
 E trilob: O_1 tremalocia coas - glasslike
 ue beh



6) Eva, S.J. Institute of Earth Studies
 E1 Penrhyn Q - foliated metals
 granular slidol 5 tinange lead slatid
 hardgrains - Diplocrateron - radial
 if Kaemins aged, Geige jutt, huzeta

7) Owens, R.M. Robert (Bob) New discoveries
 in the tinaceous rocks of the welsh
Borduland
 All unconformity - nodu etc -
WMA aremp - pa ue E3 character of the at
on old simulium
simulium ue E3

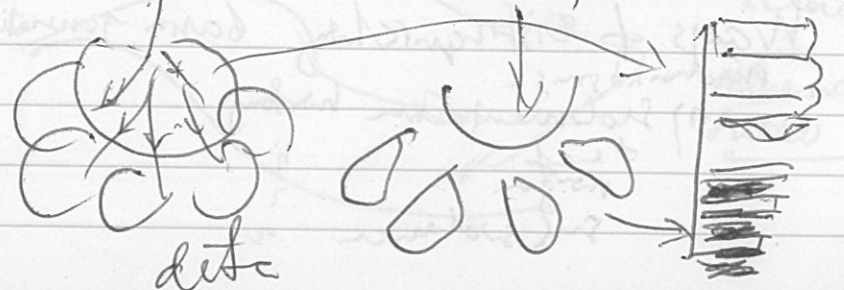
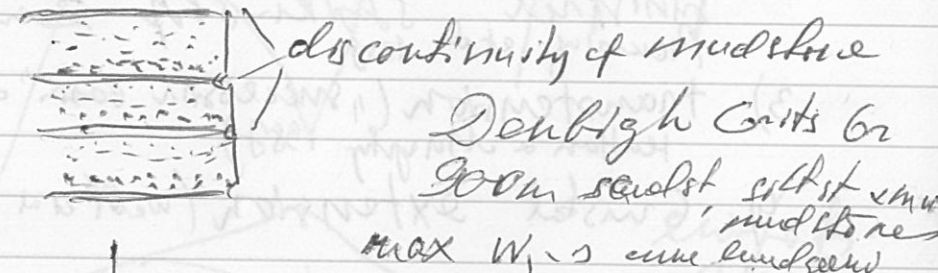
8) Lees, G.J. - O igneous activity in S
 Major igneous episodes
 1) late O1 - Basaltic and and
 2) late O1 on - llaw here - shyolite lava
 3) late O2 llaw,

9) Young, T.P. Caradoc Volcanic Centers
of the Llwyn Penrhyn
 High-level shyolite intrusion
formation minutes E2 E3 valley.

10) Woodhall, D.C. The Aran Volcanic Group
 A max thickness O1-2 Ar-Car above
3000m basal sandstones of the Allt Llwyn For
Ard volu. rocs

Problems: 1) the origin of the volcanoclastic rocks is primary pyroclastic or epiclastic
 2) the origin of massive basal (dolerite) within the basic interval (intrusive or extrusive)
 3) origin of the crystal-rich volcanoclastic rocks
 4) evidence for synvolcanic tectonism
 5) the location of former volcanic centres
 Barn margin of Microgranite
 very coarse tuftaceous rudite
 laminated & cross laminated tuftaceous arenite
mudstone

11) Khan, H.B. Deposit. environment
of the Welsh flysch
system from the Mid Wales
 (S, W)



Louisa King Un-y of Cambridge
 Basin modelling of the
 English Solway Windward Cr.
 A Foreland Basin
 Plate tectonic context
 correlation

Basin modelling

Dim: To interpret the stratigraphy
 in terms of the principal basin
 generating mechanisms with here
 been variously interpreted as:

- 1) crustal loading (Flexure)
 Leggett et al 1983
 Soper et al 1982
- 2) transpression followed by
 extension in a post collisional
 strike slip zone
 Pickering et al 1988
- 3) transtension ("successor basin" of
 Kenton & Murphy 1987)
- 4) Crustal extension (Well et al 1987)

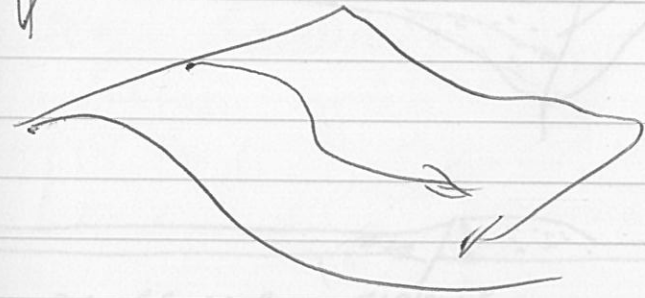
Ways of distinguishing basin-generating
 mechanisms

- 1) Sedimentation history
 depth
 margin
 sub-sidence

(12) Davies J.R. & Silliman Fuchsole
 system of the southern
 Welsh
 mass-turbulatus - gneissdom
 Munter ~~prof~~ prof



Massa aegre prof



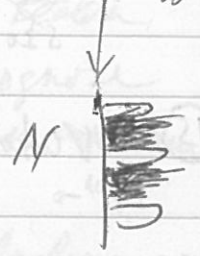
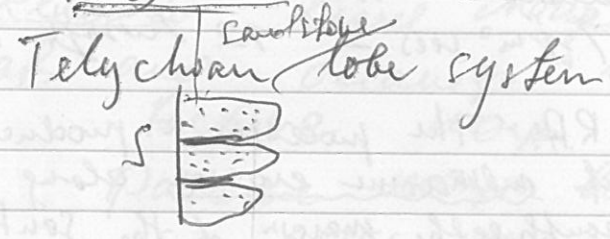
surface
 acael
 ↓
 Massal
 turbulatus

Ferrous nodules -

{	soft turb.	macro furculites
	shd turb	climat soft nodol
	mud turb	1 cm

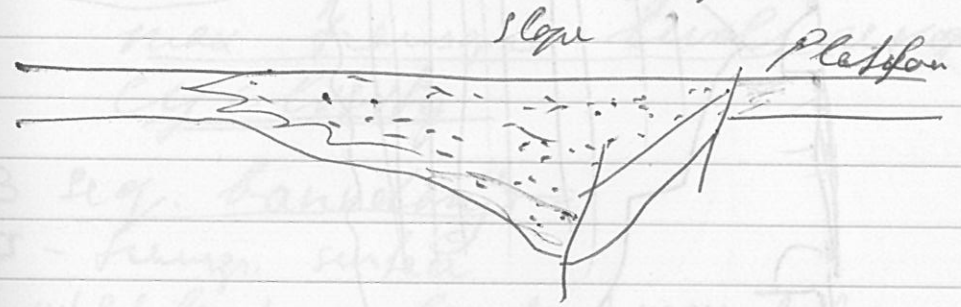
Major & minor storms

Proximal - inter - distal type



(13) D. Wilson av. Tectonic setting of the
 ABlenystwyth Brits turb. system

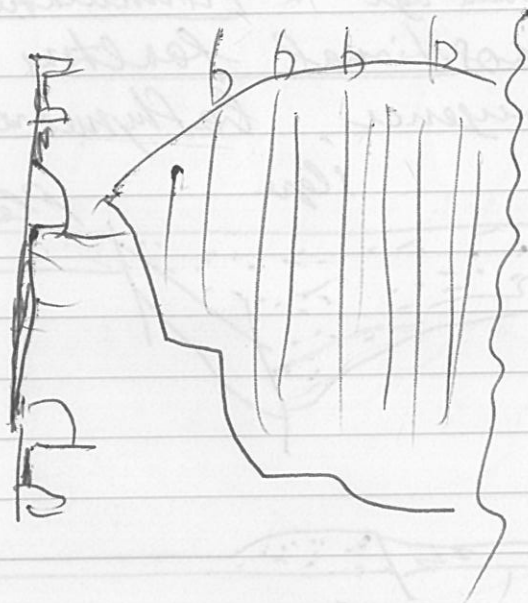
Telychan age - turbulence age
 Syndispositional faulting -
 tectonic divergence, bathymetric low



small scale - upland
 large scale - local

(14) Clearyton, Chris Barnwood sedv-
 16 yr. 55 ment gravity flow
 processes on the W.B. large-posing
 - recent. near Eurypt. old (ferry trip!!)
 Flouting clasts - sand - sandy with
 water top - 1 - 1000 tonnes in
 line - red algae/melt sector, use 2 y - 8 pos
 530 by 1 m² sees - 12 turns

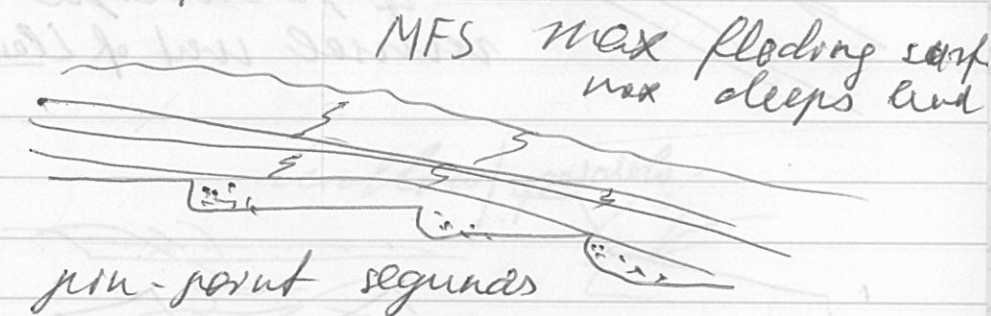
(15) Waters R.A. The processes & products
 17 yr. → of submarine erosion along the
 southeath. margin of the Southeast
 Welsh Basin
 Dike on an older shale S₁ h³ land
 normal S₁ h₂ - S₁ h₁ → O₃ as in PREM
 clasts!



O₃ ~ S₁h₂

17.11.91
 ~60 L/min out
 920 (28)

(16) Bassett, Mike
 Paleozoic sequence stratigraphy
 of the Welsh Basin. A real
 appraisal. Three (meridzo) seq.
 What is seq. strat? →
 relative level changes - sea level
 flat and oceanogr. recognition
 Active margin basin or passive margin basin



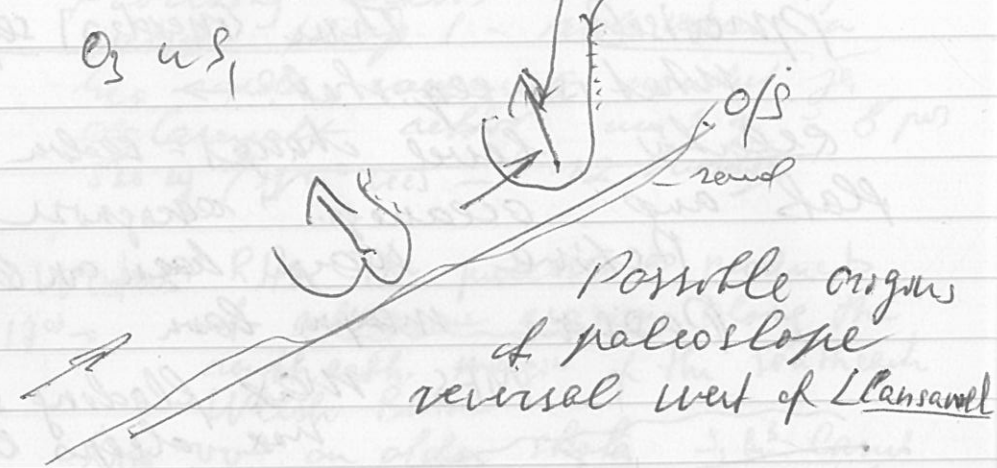
non-point sequences
 bed-by-bed logy
 max transgr levels recognition
cyclicity

SB seq. banding →
 TS - transgr. surface
 w/ld band - lenses / waste end.
 Sediment. nodules uneconformity

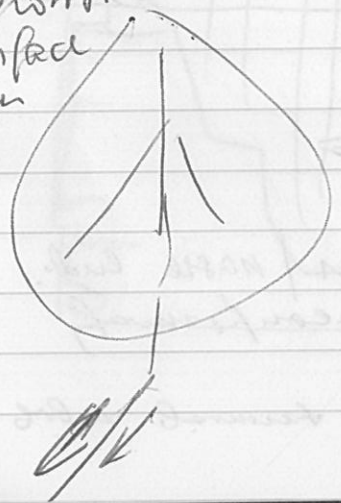
Woodcock = near lithostat terminal colob
 seq. strat

①7 James. DMD The Pen-y - Adams Grot
 - paleogeog. significance

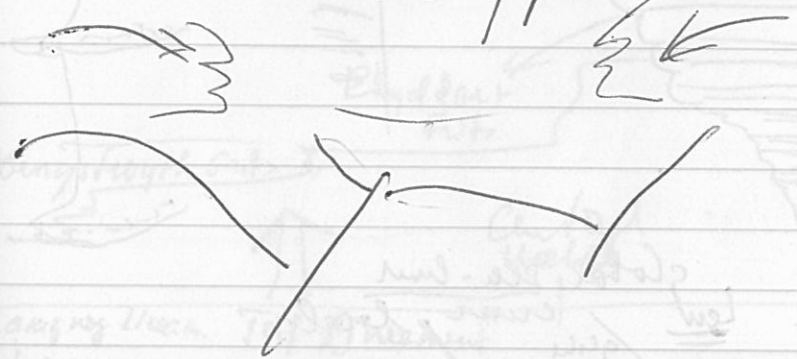
O/S bound.
 major lateral sand input
 transport direction



Depositional
 surface
 plan



terrace / proclots -



①8

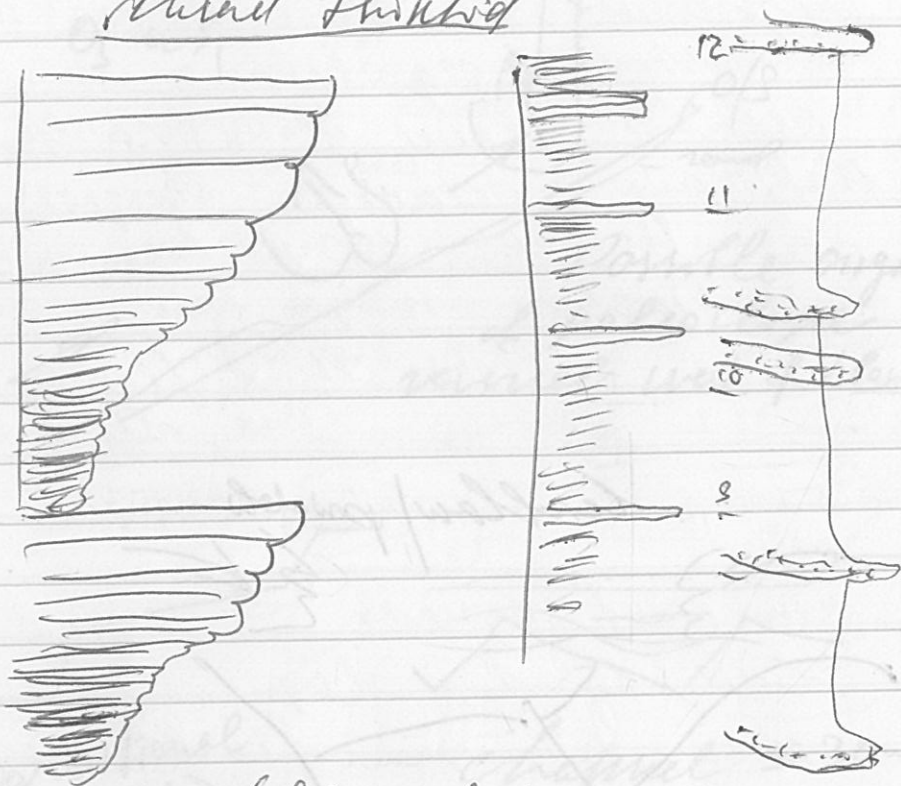
MR DODD
 Holf Barn

[Faint, mostly illegible handwritten notes and sketches on the right page, including some diagrams of geological features.]

[Faint handwritten notes at the bottom of the right page.]

18 Dobson MR.

5, 6, 7 furculatus - 6 subzone
 3 main facies, stratified sections
Mural Furculid



19 Smith RDA Welth Basin

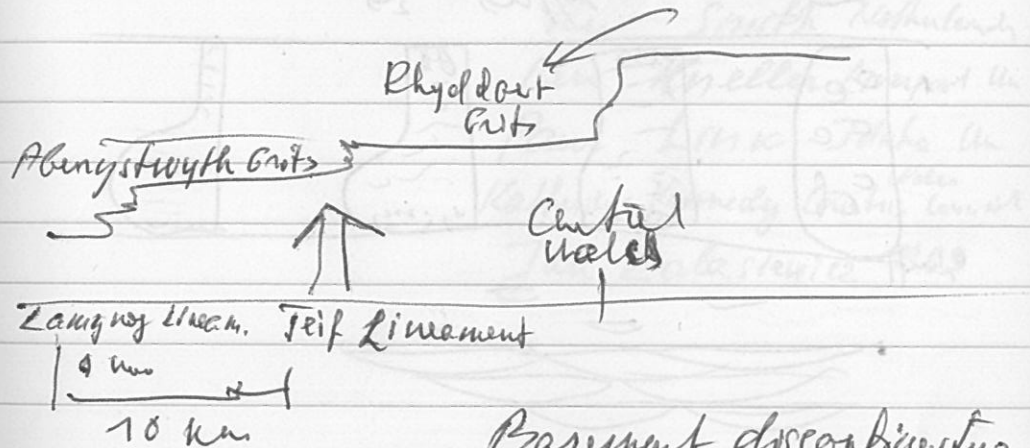
reinterpreted as fine grained turbidite
 the Crogl sandstones Aberystwyth
 Grits Facies

Thickness of oxidized tops
 of event deposits

Stow & Piper 1984 Correlation outline
 under fur troughs.

Crustal tectonic collapse of floor
climbing oblique ramp Kneller et al 1991

Acceleration of low of floor ramp
Edwards 1991



inclination of surface evidence
 ramp 0.25

20 McCann (Llandovery contrasts)

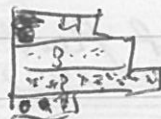
21 Williamson & T. F. Se. Llandovery
(Ludlow) sequence of the
Clywedon Range, N. Wales

slides:

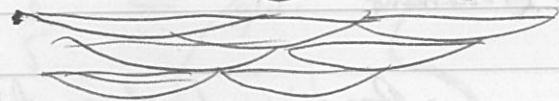
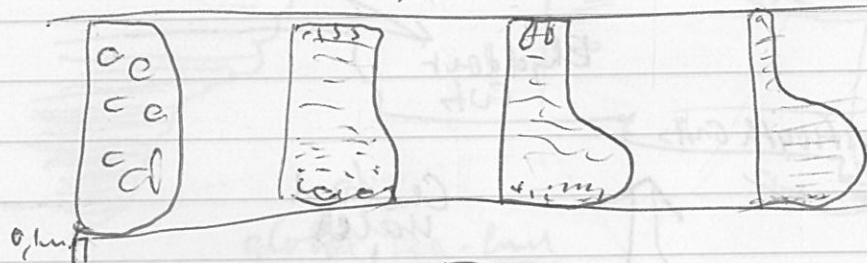
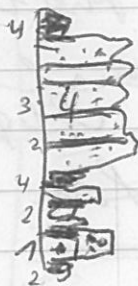
- Lewis line:

fragments: unmodified &
unmodified lithic
wash near. acorns - heart

vertical position
of facies
in the:



Types



22 Temple J.T. & Cave R
Geochemistry & mineralogy
Depos. environ. in Caradoc -
Ordovician (Llangynidr - Llanwrda)
mino. elem. unmodified unmodified

Vertebrates Louisa King's edges,
et ta a Edwitt horizontal outline
Mudstone proj's - scata mus
variant me project it Jubelinus !!

Ken Guelchroon's: John Davies BGS
Rob Evans BGS
Dion Waters BGS

Nigel Woolcock Camb. Un

Louisa King Camb. Un

Ru Smith Netherlands

Ben Kneller Liverpool Un

Paul Link Idaho Un

Katherine Kennedy ^{Wales} Countryside Council

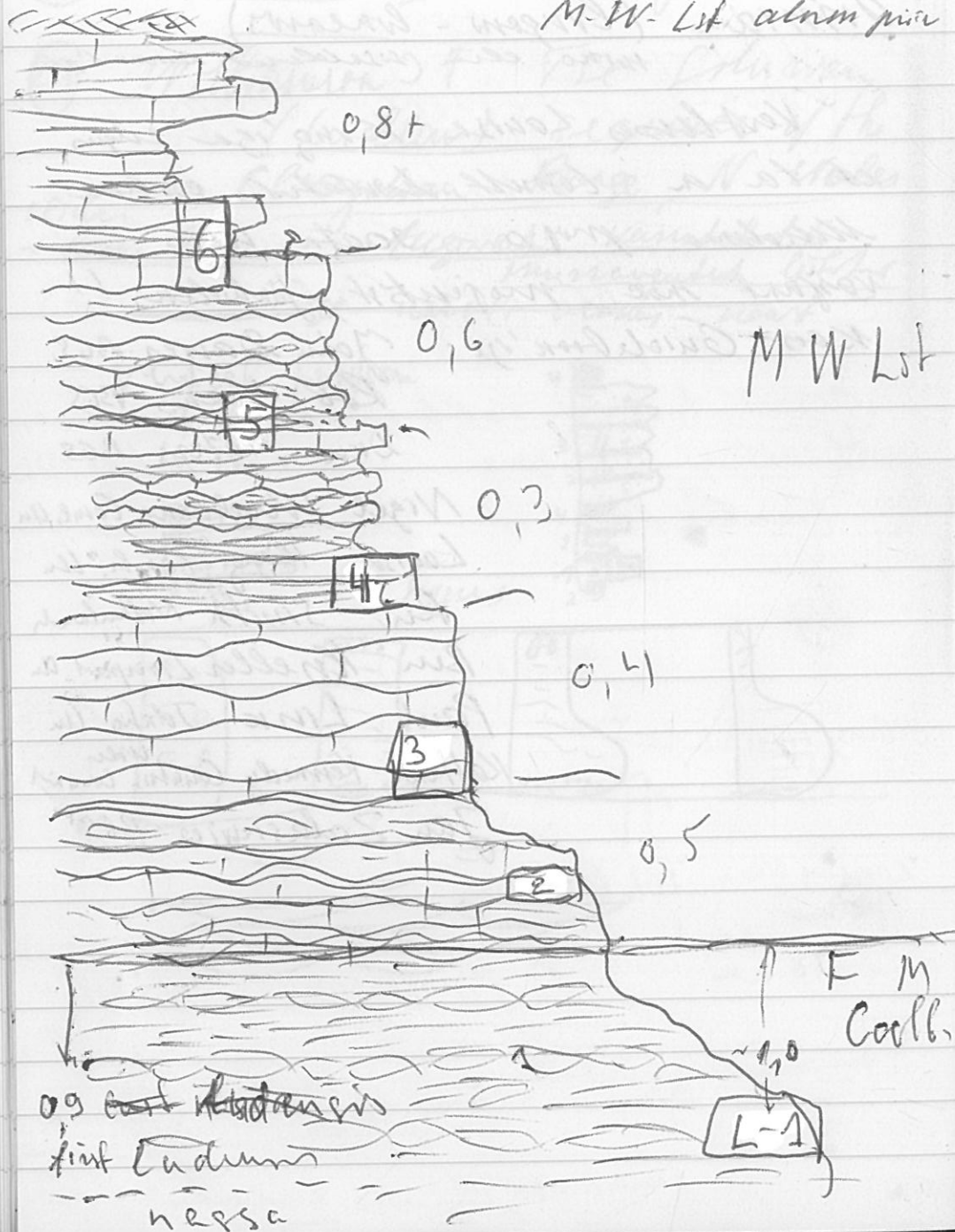
Jan Zalasiewicz BGS

Wenlock Edge

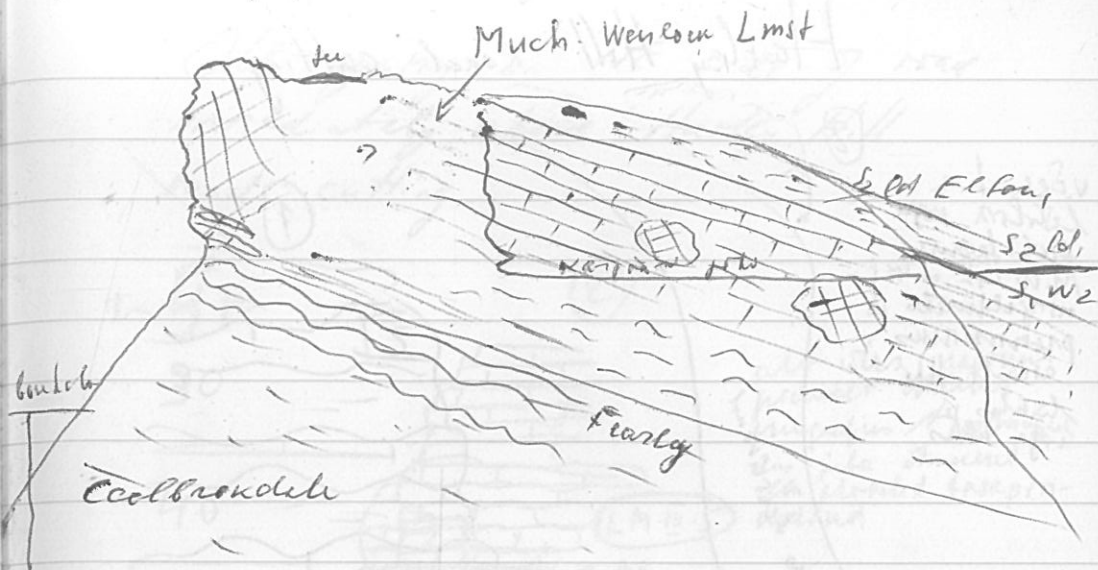
Longville - Starway road section

II

M-W. Lit alnm pira

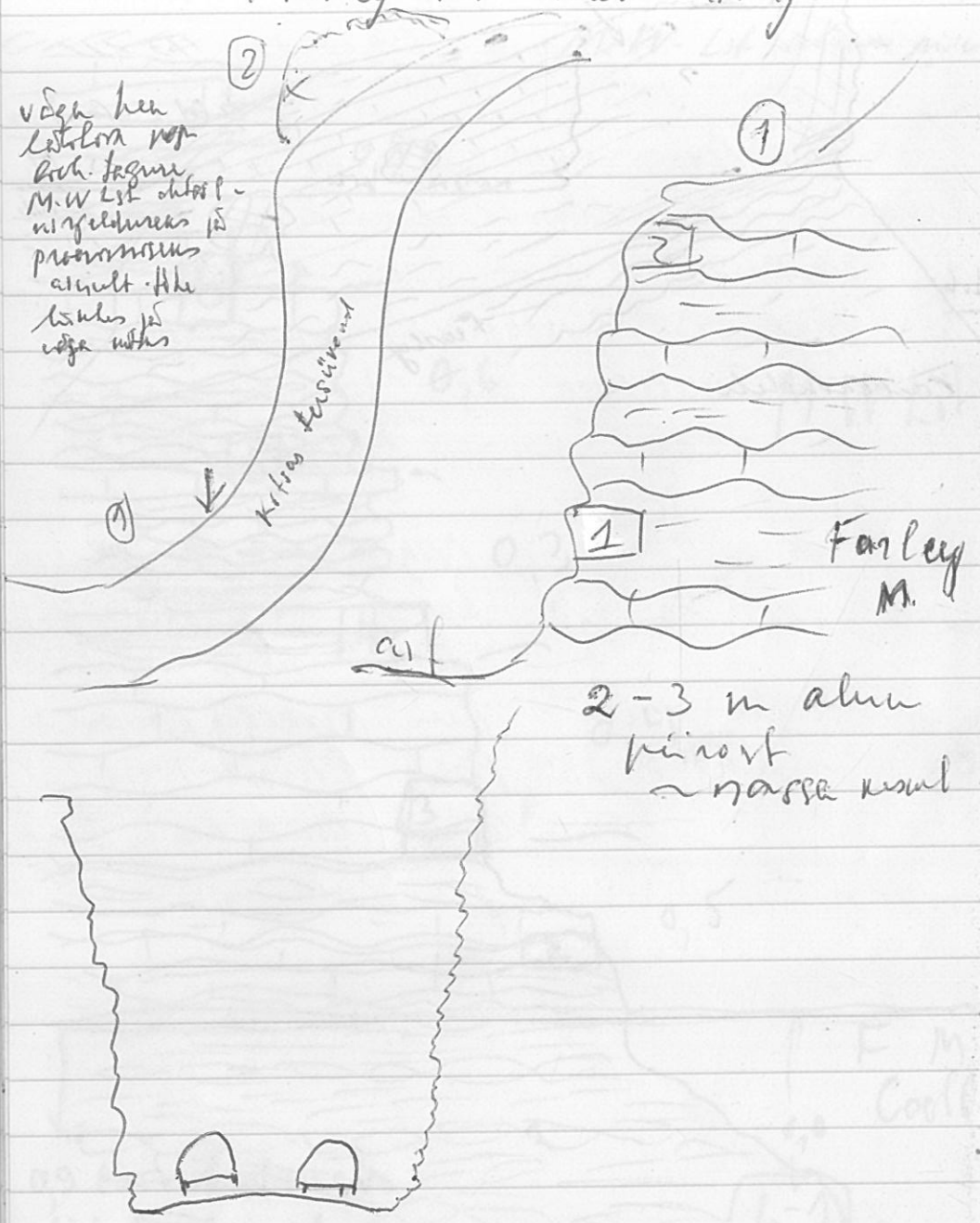


ölkul mih fargi:



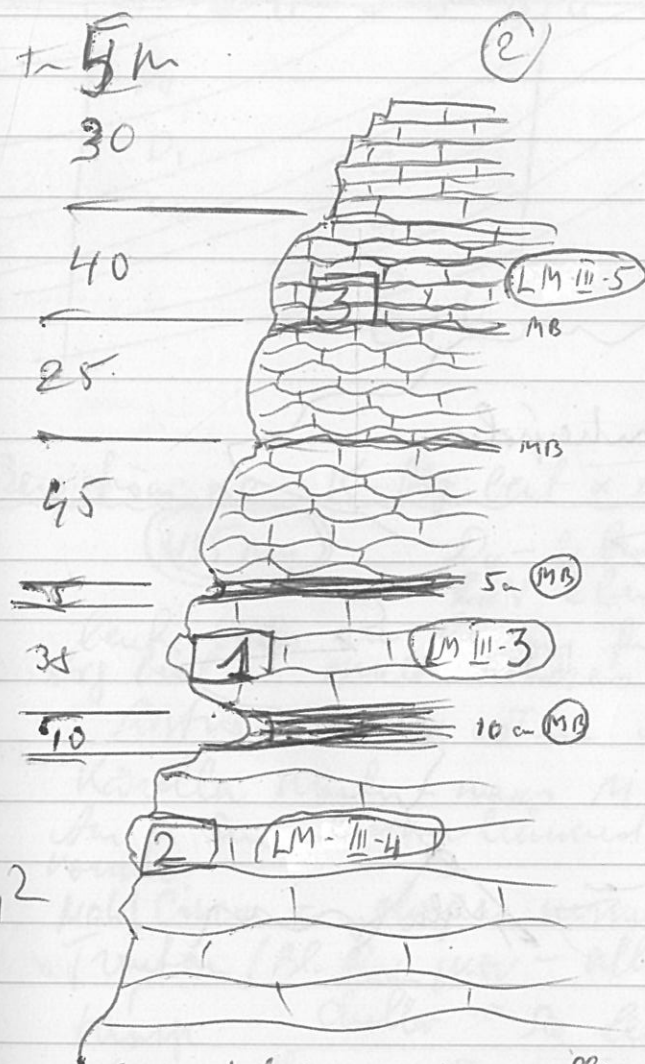
Harley Hill road cutting

vdgn hen
Lst. lora pop
Blch. fagum
M.-W Lst. outst. l.
w/ r. f. d. u. r. e. a. s.
p. r. o. m. i. n. e. n. t.
a. i. g. n. t. - H. h. e.
b. o. d. i. e. s. i. n.
e. d. g. e. u. i. t. h. s.



Farley
M.

Old quarry on NE side of road immediately above Harley Hill road cutting

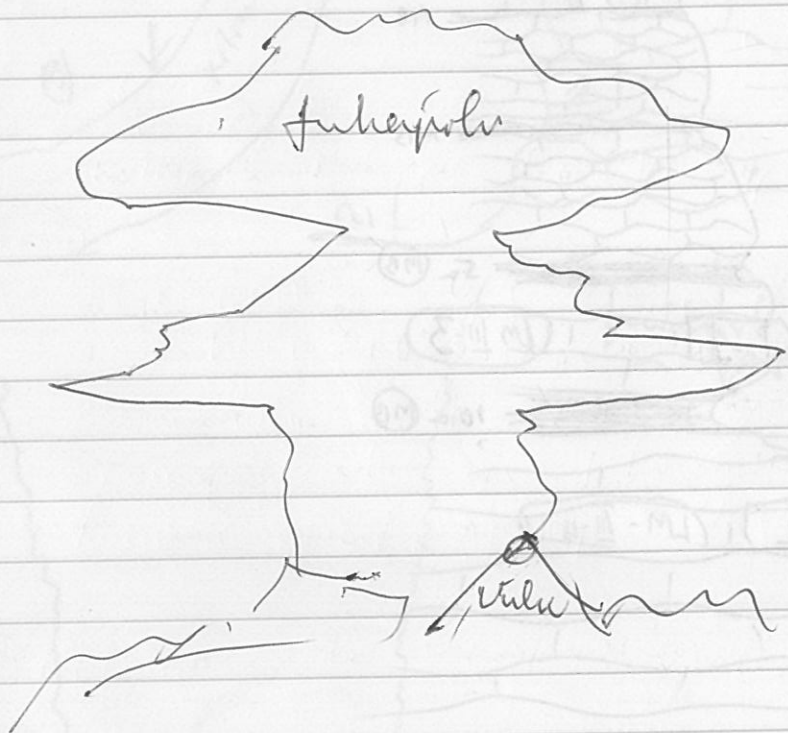
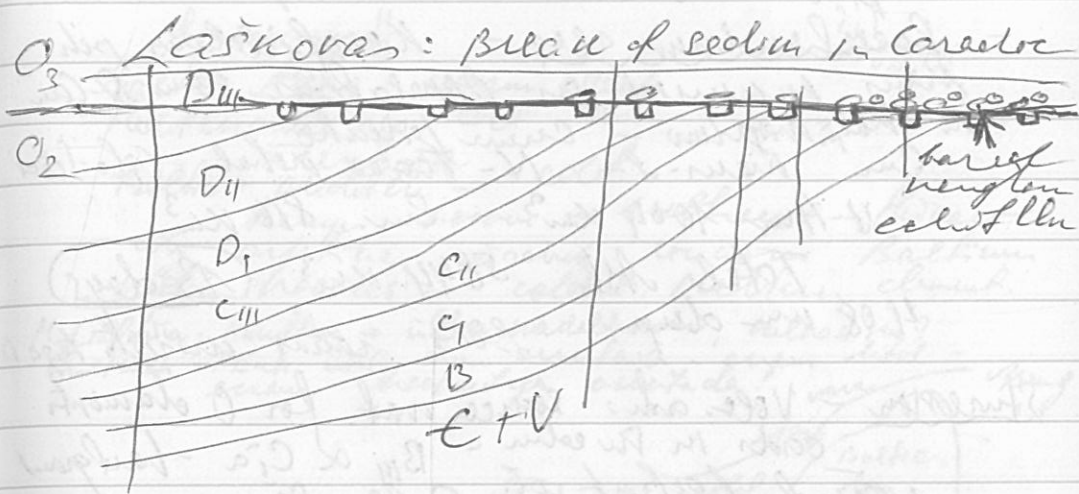


alt. wh. r. w. m. s.
p. r. o. d. u. c. t. u. m.
M. u. g. a. f. u. s. / p. o. o. l. i. n. g. u. s.
n. e. s. j. i. b. e. s. t. u. r. e. n. d.
l. i. m. p. l. e. t. e. d. t. a. s. e. p. i. n.
n. a. t. u. r. a. l.

M.-W Lst. numm ore - m. l. l. e. s. o. n. u. e. d. n. u. m. m. a. l.
r. i. f. l. e. d. l. e. d. - m. o. n. a. b. l. c. h. f. a. g. u. m. m. i. c. h. o. l. s. a. l. t.

WOGOGOB Oslo Meeting

17.-21.08.1992



S. Bergström x 0 K-big bent x sea-level changes

455 my

D_{II} - 2 bent
C_{III} V - 2 bent

bent. beds are beginning for Multidens 2
big bent - mult. stages

Rostnes 10 x M section on T E-1

Karolla Westin - near M-d
Am is an even thickness lateral parts
common

Mahl Cinen = clouped normal

Trenton / Bl. Box now - all part by bent
transp shaller - sea level drop

Normanville = 0 - 70m - 90m present

Sellit Page bent 80 - 80 m
normal against normal - region

D_{II} - D_{III}, Midway clouped - transp. near

Heff 20 Millbay Bog bent - uogru fane-

ros. massim. lewanga

algas Black River when present

- Roeschewani ales - Hensfieldhouse pek

Mus panned on Appelables, uuu S-Lan

(i) Kaha mapelaw - Curre foruho

Em New-L - N - Tcaus nobel - Oplo Scim

N-Am 1004 km³ Em 816 km³

Total Ash 5844 km³ (13 days)

4.08 um dup Bios rous uduho tege is

Stunnon - Volc. ash: source mat. for O clauonta

oids in the colm - Bii & Cia - landgrau

uoud kochut wh Cell - Saerua N-Et

Sidma, Eyle - event

Nominal - Pellingu Bii Viverly - Suvoh Lipp

18 Aug

① Stape Baghol O, cemed. progress.

- Namud olauho uloudo pilohd, tepult

re "rehebu" uht - Mus exparuu in

reueyuu uahel on fsho outuall -

lanuun alunt. reueyuu taremel

② Lofgun Exotic coned. visitors to C, Swedish seas

uavis - Horn Valley subtown, Australia

uuee - Paroistodun originalis, Taxotodus

eleppus - Histiadella uirtinae → P. calcatum sub2

proteus ↑ Histiadella holodentata

uogru! Parepanderatus sp A : pana → M. Ozaruoodelta

③ Tougray's Rikenas - Arey acuterchs from Horn 35

idi (oland) - A. p. telum report.

Quary Bu Handemun Amythoge. uouaboh. caricula

Bu Langweji M. nera 2 value

diakroam !!

Balte Arey - warm assant

Mediteranean re cold ass.

Balte + Mediter. - cold

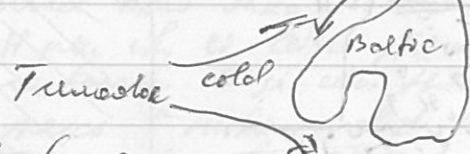
wh Areyu terom - uhtrept - Hiuant

wh ahtre, ueraboh louuere Baltium

Nitlu uouus → cololat Mediter. element.

M. Lindholm: Hiuflora → uilehu uadelluouu, uelouuim?

Eueluon - PEuk lital eruu ouuafah - eruu lital - eruu uouuafah ouuafah. uouu uouu



④ Nolsen Trolbife host C

Kamsted Lit & Hluu Fu J. Scand

Mouuh uleuu Boruholu je Lo. Skane

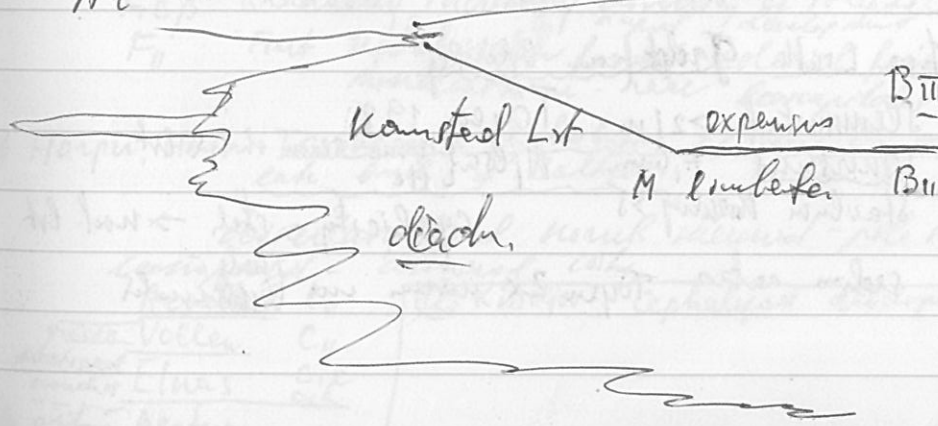
uouu uoud Boruholu - uouu u. bed-by bed

Colti - uouuafah uouu

uouu uouu - uouu uouu uouu uouu

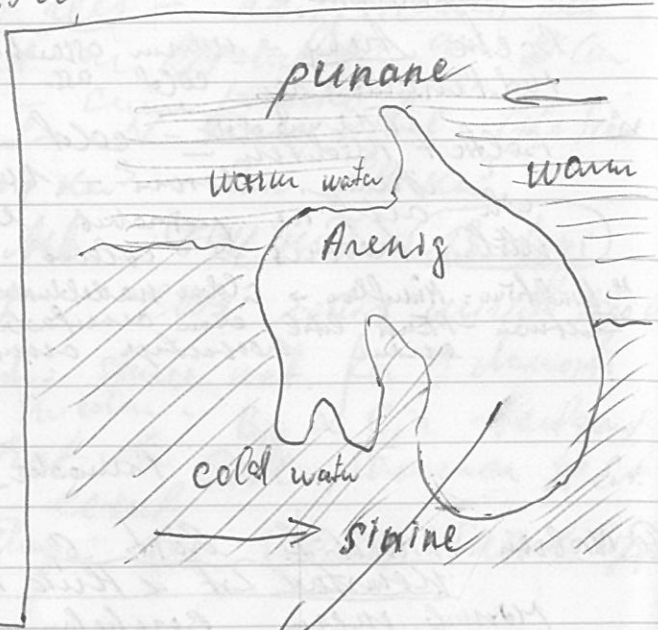
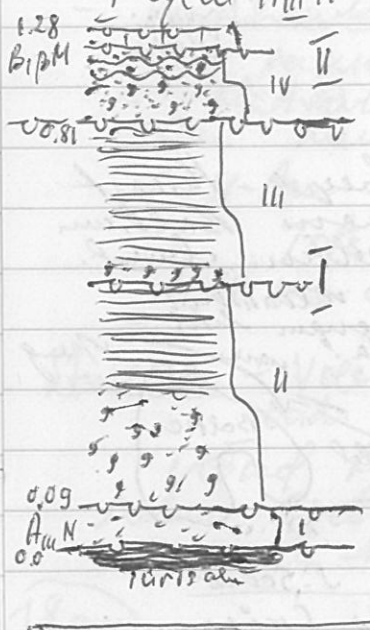
uouu uouu uouu uouu

White rock Ar Bu Llan expensu Llan limbata Arey



⑤ Popov, Kopylov a.o. Alumina-bearing graptol m E Balt

Pati Lovo Lava, Kipuya
 B, x L - II cycle / B, β Mäenmä M
 Pafloovos on II cycle equal of lava - regress
 I cycle A_{III} N - 0.9 m



⑥ Maloz: Biostrat of endemic grapt. f. A_{III} LL of the
 temperature cold water paleogeography of Baltica & Gander

Arenis - sea level - punane → Arctic - Alas
 nether sea - warm
 Tonguist - ch(Ocean) - cold water

⑦ Kristina Lash. Grapt from Oslo Reg

Stemmestad >21m Tøyen 19,8
 Ullersund 7,6m Mjøsa He
 Stavelen Kvalby 5
 section notes Tøyen 2x warm and shale
 cyclicity - shal → nod. lit

⑧ Harper, Rasmussen O₂ chitrotophosphatic brack from Lower Alloctites of the Norwegian Caledonides
 Vathe illuht - sand stut reunit - poor preservation

⑨ P. Märmia O₂-S₁ coned. f. evolution
 Cycle corrects obventy
 O-D₁ - 6 big cycles by Sweet
 one of the main crises - quite rare O₃
 Alchidp - 1 but sharp depress can diver.

I cycle - D₃ - F_{II} - max vorum, vararem max = C_{III} β
 etc O₃ para, beaagen down low or late
 dominated mantwood ojas
 extraction F_{Ic} when rest p F_I

II cycle - G₁₋₂ - G₃ - several new taxa, use G₃ usual
 G₃ H per etc or late HR with
 HR inatam E-se etc Hwach

III cycle H₁ R - 7₂ - mass S mitm. dist. event
 Trimen event - 80% sure
 detatnet - 28 external exposure
 B. pind etnaad parts per arenguepudya

⑩ Newman: Major trends in development of Baltosc.
 12.40-13.00
 rugose corals

- C_{II} - coral
- F_{IIa} - small strophylaroid
- F_{IIb} - large diversity of monacanthinae with tubulae
- F_{IIcβ} - gradually increasing diversity of strophylaroid
- F_{II} - first septofostolate form, colonial form, monacanthinae - rare leonardoid

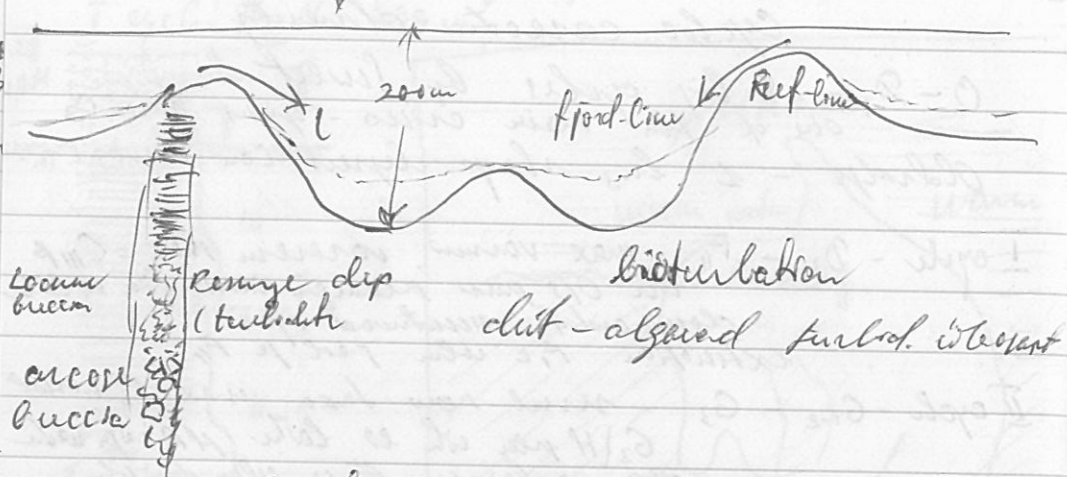
⑪ Harper, Hinds Taxonomy & distribution of some O₂ arten-late ends of Baltosc.

Leonardoid - common corals
 Achenard C_{II}

- garden Volken C_{II}
- fourland Elnas C_{Iβ}
- manches Elnas C_{Iα}
- atun Bestum

⑫ Kisselkov - Cephalopod development on G

Lindström: Impacts on O Baltoscandia
 Gaanby, Locum, Twären, Kärdla
 Topography is very clear in B. O. vol.
 Brown turbidite in 80m



Endeman: Cretaceous - Varangian Event Project
 post-Permian or several overthrusts
 black-shale developm - muddy - lit. than glauca

Lindström: Ordovician events and sequence stratigraphy in northern Europe
 A project: req. idea from Eur. community.
 "Impact-structures in Earth" - no help needed
 Manage - meetings, Portugal, 20 Mediten. countries
 Project: "Portuguese" - a part of these

Open session

1800
 Braten: O subcom - WOCOCOA - most of the
 active people.
 Stouge: Next Meeting - next with O - 1994 - 5?
 Whiteoak - Oland - Bornholm
 series Gr-Britain - definite.
 1) O/E band - work gr.
 2) Arany zones - recogn - globally
 - approx - Low band
 2) dlu-ldd - bifurcus - the quest. is -
 how recogn - in chone
 in Austr last year - clavulata or stage
 4) Caradoc - gracilis
 5) Ashgill - in Baltica
 e) Ob: Lindström: type-sec. - not published
 but scientifically, small group
 apr 92 led by bed. covered, unfortunate
 to small opportunity - scepticism
 for cerod. zonation - I. of shale -
 silty - nodulitis, calcinidifis
 clasts of Lst. No west more
 west in section - possibly represent
 turbidites, oronovally events.
 subdown slope - no sediment
 events (barrelings at all - pH was
 & Br - 7-shelly fauna of graptol
 Owen - Jenig - chief number - anoleumt post
 system - Geos & all literature Canada post
 Caradoc - Low band - graptol
 Ashgill - with shelly British fauna
 about swarrens for low. band of Caradoc
 gracilis at high alt. high.
 Top of gracilis - one of the possibilities
 multicolours / chagous lower - a level can
 be recogn in Austr x chone - ^{global upper} level
 level regression - below Dii ^{big level?} _{high level}

very very
 late
 after

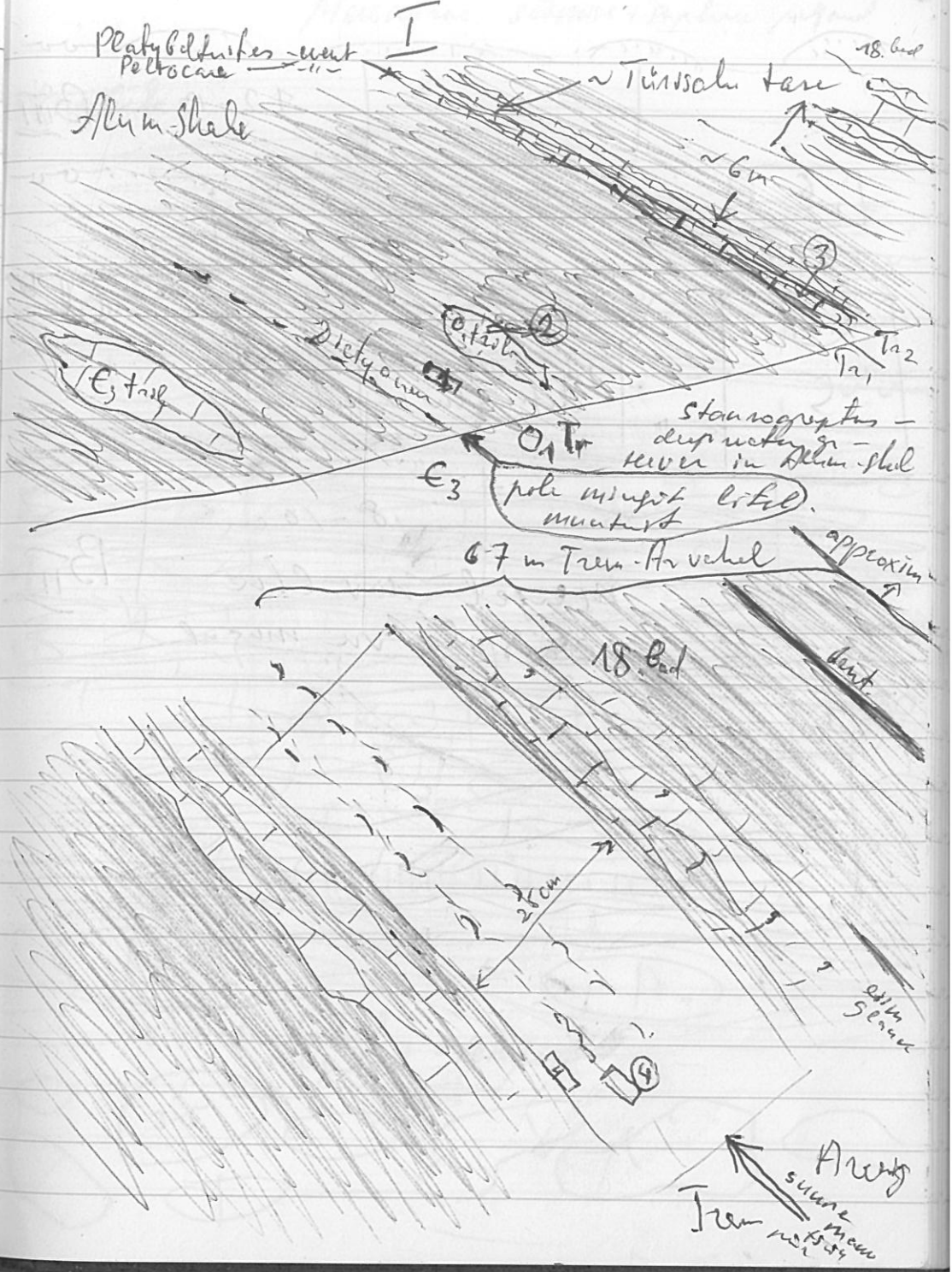
Ashgill - short period on time -
 pel. conchoidal aluminosilica
 conch. chert - graphite - Baltic stages
 how long? - lower parts - 2 rows
 philosophy - outcrops - boulders
 in Sweden - classic section
 monumental & local - 4
 stages - system of Baltic (E3) -
 strong

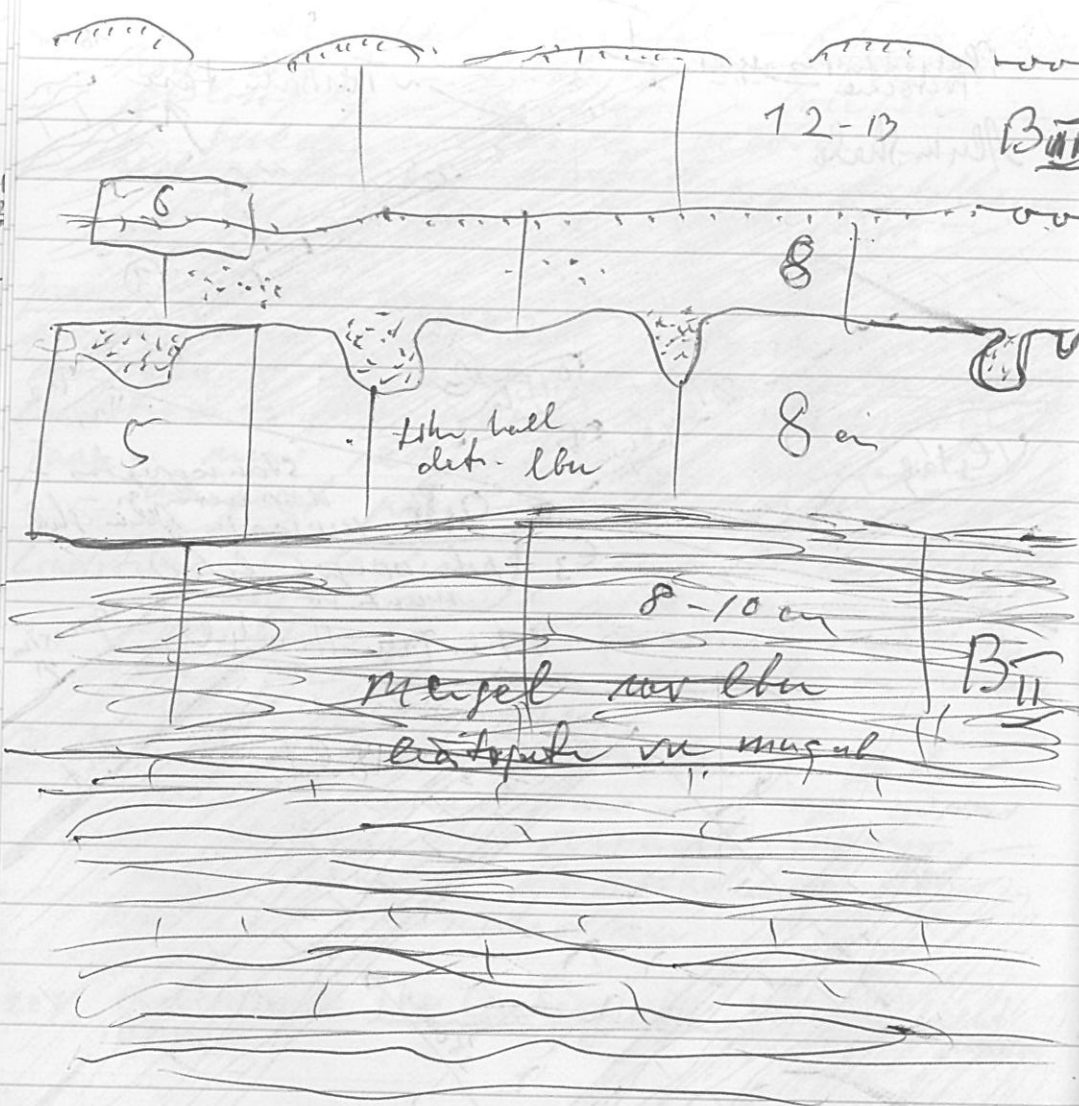
Jaen - Hermaology - Kunda - n
 D.Br - New foundland - efuntato - ilua!
 Preyotun - n - strong time stage meaning
 Lendstrom - Am. ap. mpr - n - b. (b.?) - ilua!
 Jaen - mms se pel dify. - l. (l.?)
 almost p. (p.?) - with marginal con-
 crete
 Lendstrom - E. l. (l.?) - l. on p. (p.?)
 w. (w.?) - almost p. (p.?) - n. (n.?)
 garnets p. (p.?) - pel. (p.?) - m. (m.?)
 age - n. (n.?) - E. (E.?) - l. (l.?) - n. (n.?)
 p. (p.?) - m. (m.?)
 D.Br. My p. (p.?) of Km is - Valder J. - l. (l.?)
 n. (n.?) - w. (w.?) - a. (a.?) - m. (m.?)
 or a. (a.?) - p. (p.?) - m. (m.?)
 m. (m.?) - n. (n.?) - K. (K.?) - l. (l.?)
 in val. (val.?) - K. (K.?) - l. (l.?)

20 = Erdtman: The Cretaceous - Varangian event
 Bernd

Excurs

38
 19.08.92

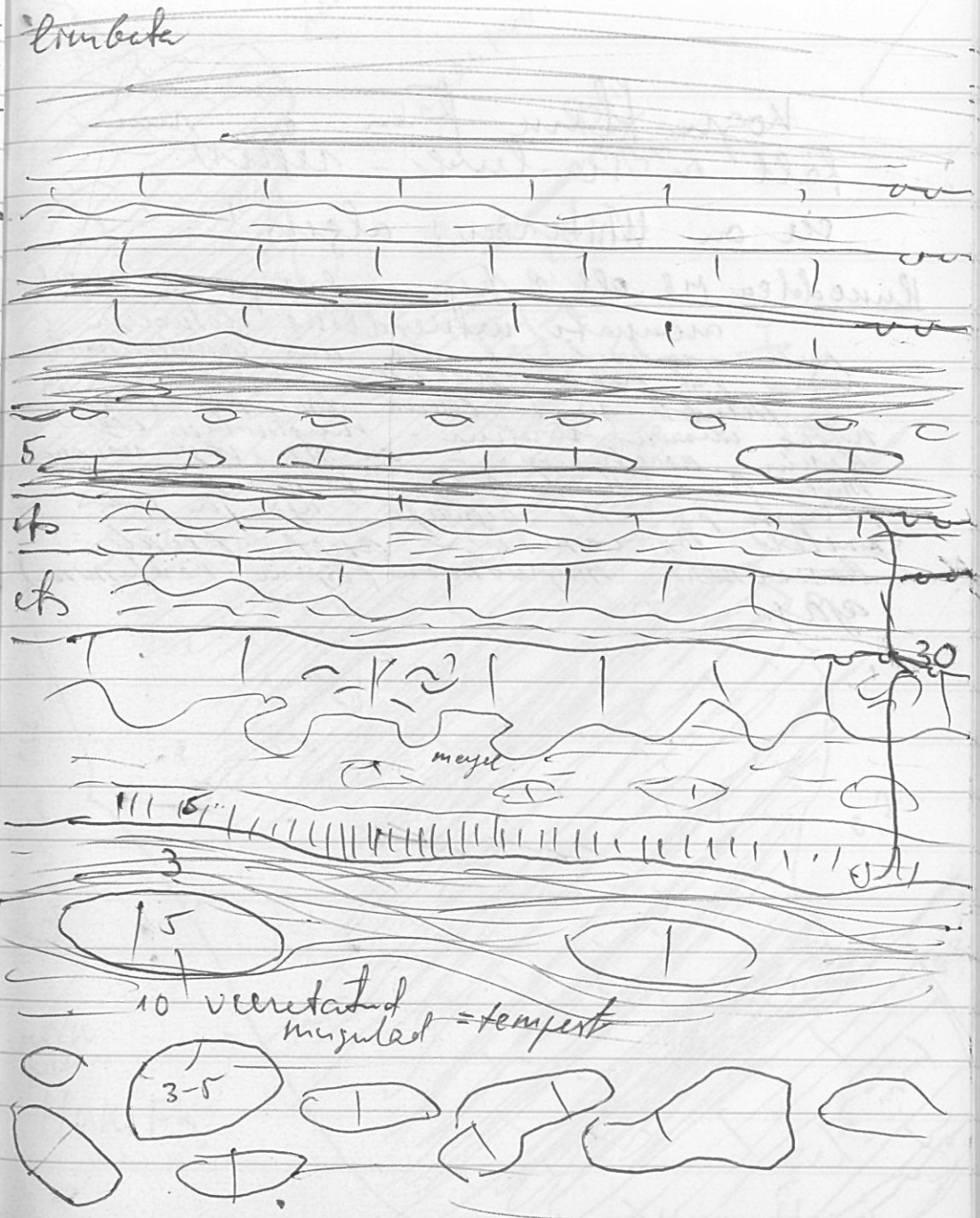




lbu hall
det. lbu

Majjal sar lbu
Lätkupala va majjal

Mereäärne sõnnuse + sügure pefand



lmbata

5

4

4

30

majjal

10 veeretatud
murgalaad = tempert

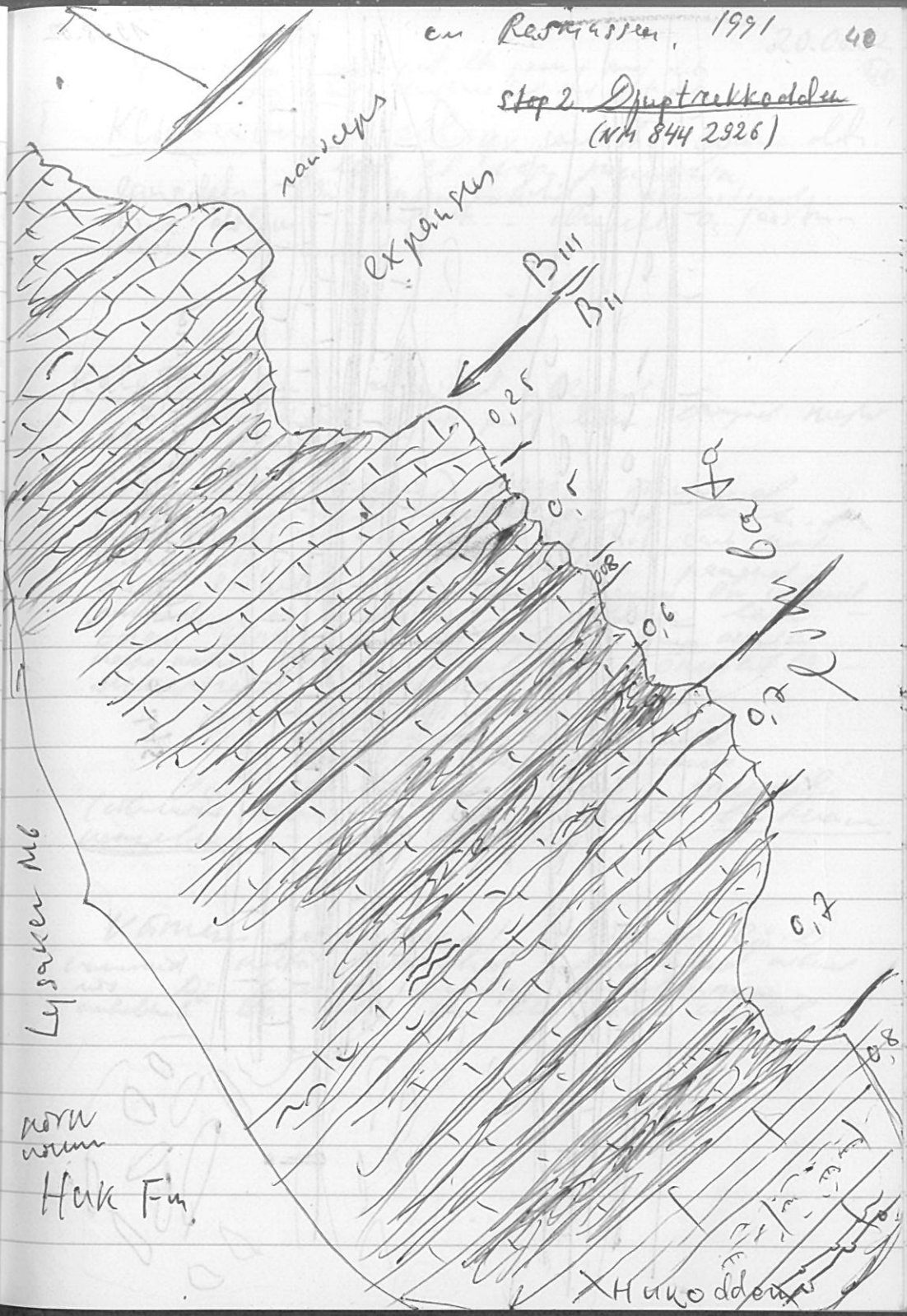
3-5

Conodont stratigraphy of the O₁
 Huk Fin at - - -

Kogn Fin Fin en sum
 fall in sea-level - regress -
 see on *Whitoceras* algers!

Hukodden Mb all 2 layers down to usual
 arranged vertically observed
 under microscope - det. lta. un. crinoid stems
 small fish fragments
 Alveoli same than down pale basal
 nitrog. uterin sphaerula - magnesian cage
 dense porolunone - on the top surface
 more B_{III} & more nitrog. surface is cut
 flimsy pa B_{II} alveoli, age on cut
 small B_{II} surface - anal. fossil
 basal white magnesian (open porolunone)
 apas.

en Restgassen, 1991 40
 stop 2 Dyptrekkløkken
 (NM 844 2926)



19.08.92



Holmen boat yard
(NH 838 309)
stop 6

channel filling

20.08.92

S₁ l₂ Acon - argon post. l₂ part + mud d₁ - mud cont. to d₁

I Klousterberg - all qv sandst. coarse det.
sand det. l₂ - brownish white. unbedded
ore below - arg. fr. - almost O₂ part
argon - F₁ horizon!

II Kalvsjæen Fu - almost all post -
Aall vohu - F₁ C₁ det. - jed l₂ - argon part
- F₁ C₁?

B - Boda l₂ remane. mass - mixed
mudstone det. low percent of brack. -
block-deposit - mang. lites. lithol. carb nat
K₁ - grainst - sunst. pannedena - percent
methyl - leatherye ragch. vohu reggini. On vohu
pukstave, on Solenspora. Ja ruffinge lael
tugev. slom - roosting. harkandig. kamp. orull
vepa. mat. Millil. l₂ 4 cm. Ono l₂ l₂ -
mureporen. base l₂ l₂

D = utifors. ruff. - vohu
= alst. p₁ p₂ + mud vohu
Ono l₂ l₂ vohu vohu

On vohu, et va D₁ - base
(vohu vohu) en vohu vohu vohu
vohu vohu - vohu vohu vohu

Vohu vohu vohu vohu vohu
vohu vohu vohu vohu vohu
vohu vohu vohu vohu vohu
vohu vohu vohu vohu vohu

Cooper R.A., & K. Lindholm ¹⁹⁹⁰ / A precise worldwide correlation of early Ordovician graptolite sequences. Geol. Mag. 127(6) 497-525

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23.08.82 Uutelu Jaanusmaja 1245

Enaldade lätol p. kolmentol (see old)
võimust reamit. sika!
L.P. õhine liiv püürd, liiv korraldus vana
lempreals arhitektol - liiv 5% püürd
v. keldre mudegi. Püürdum - feni
pa liivne õhine 20-25. rüklude 50%
Müelide püürd - vana - v. keldre arhitektol
fanti, korr. müelid ainult vana ole
Mali püürd mis korr. v. püürd - müelid vana
vaid müelid
Nedibry S. lü - püürd, müelid - vana.
Old Red - vana - arhitektol püürd. eadine
Dabemas vana - l. vana vana W-3
sandstone - püürd vana Dinty. - O feni
võimust liiv. - vana püürd
võimust - vana liiv
võimust - vana müelid & püürd
- vana liiv - feni vana vana
vana liiv.

42
Stenale Cü püürd en. püürd. sadama
püürd - vana keldre - müelid püürd
vana - vana!
vana O₃ keldre

Rilaps lü Flowoles - Pleistots
püürd - vana müelid

Fjaca püürd - püürd - vana vana püürd.
v. keldre - vana - vana müelid -
v. keldre - vana püürd, püürd feni
Müelid vana vana vana vana vana
- vana püürd - 1936a - vana feni
v. keldre - vana müelid vana vana
v. keldre - vana müelid vana vana
v. keldre - vana müelid vana vana
- vana vana müelid.