

59.4

58.2

57.1

56.2

grainstone

55.5

54.1

53.0

51.8

50.4 t.s.?

49.3

48.2

47.2

46.0

45.2

44.0

43.1

42.2

41.1

40.0

e.w.c. beds becoming
very weathered/re-crystallized
micro-nodular

few of the beds becoming
micro-nodular

alternating e.w.c. 7cm
beds w/coarsest laminated
5cm bundles w/scours + H.cs

242/41

wpt. 143 begin new section
wpt. 142 end section

thick package of e.w.c.

→ begin massive grey package
still v. thin bedded (3-4 cm)
but not fissile
rippled.

↑ inc. in grainsize
and inc. in e.w.c.

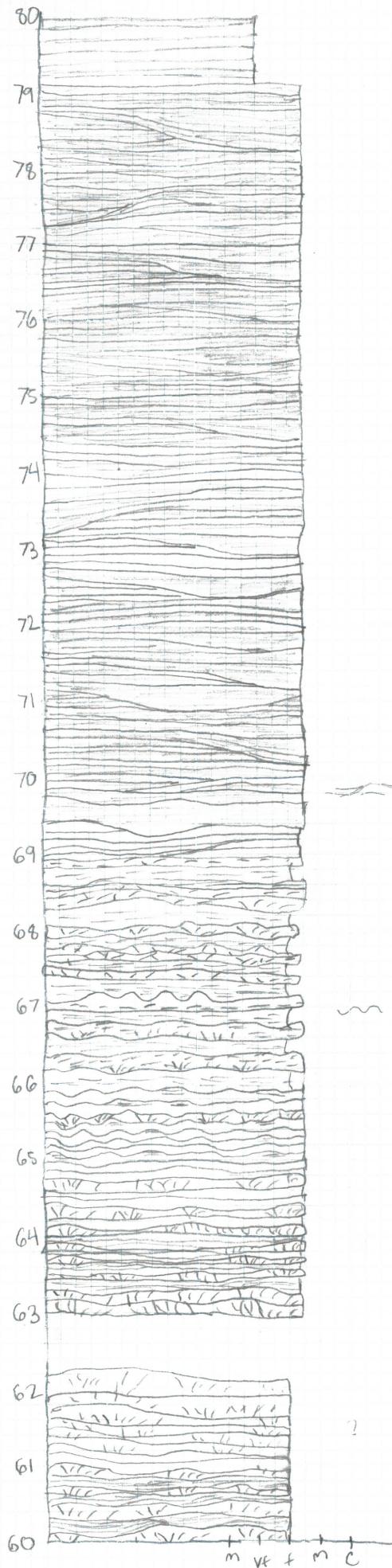
few e.w.c. isolated
light yellow; hint of silt?
V. thin bedded; rippled
massive
↑ inc. in grainsize
(pick of
bed tops)

wpt. 141

well lithified
laminated initially
to micro-nodular
grainsize w/ few
interspersed e.w.c.
no break in slope

thin bedded alternating
e.w.c. w/ fine grained
coarsest lamin. beds
photo wpt. 140

not as v. thick bedded but still
fissile



vt. grainstone; thin bedded, recessive

Continue caving weathering and recryst.

continue low angle x-strat
v.l. scars in thin to med. bedding w/ coarse laminae.

begins to get caving and recrystallized

low angle x-strat in thin to med. bedded med. lam. wpt. 145 begin section — begin thick resistant p.b.g. more down to wpt. 144 end sect. maybe fissile interbeds have some silt rippled topped i.c.s to e.w.c.s interbedded w/ fissile fine grainstone begin to look more like i.c. w/ fissile

beds are wavy w/ lamin. tops beds in btwn now 4-5 cm

beds no longer laminated btwn e.w.c. 1-2cm thick + more — return good exposure weathering recessively

e.w.c. ?
highly weathered

slightly coarser grained
more e.w.c.



v. thinly bedded fine massive grainstone
photos of contact wpt 146

dramatic change in weathering style.
bedding above looks like storm bedding from MO
or like 82-92 bedding begins to go and it weathers more massively,
through cross bedding still present

Some beds have chip breccias in them.

x-bedded fine grainstone thin bedded

some lamination; some scour, still thick e.w.c. to nodular
v. thin to nodular bedding
photos

thick package of e.w.c.

e.w.c. interbedded w/ micro-nodular texture.
(photo)
rippled bed

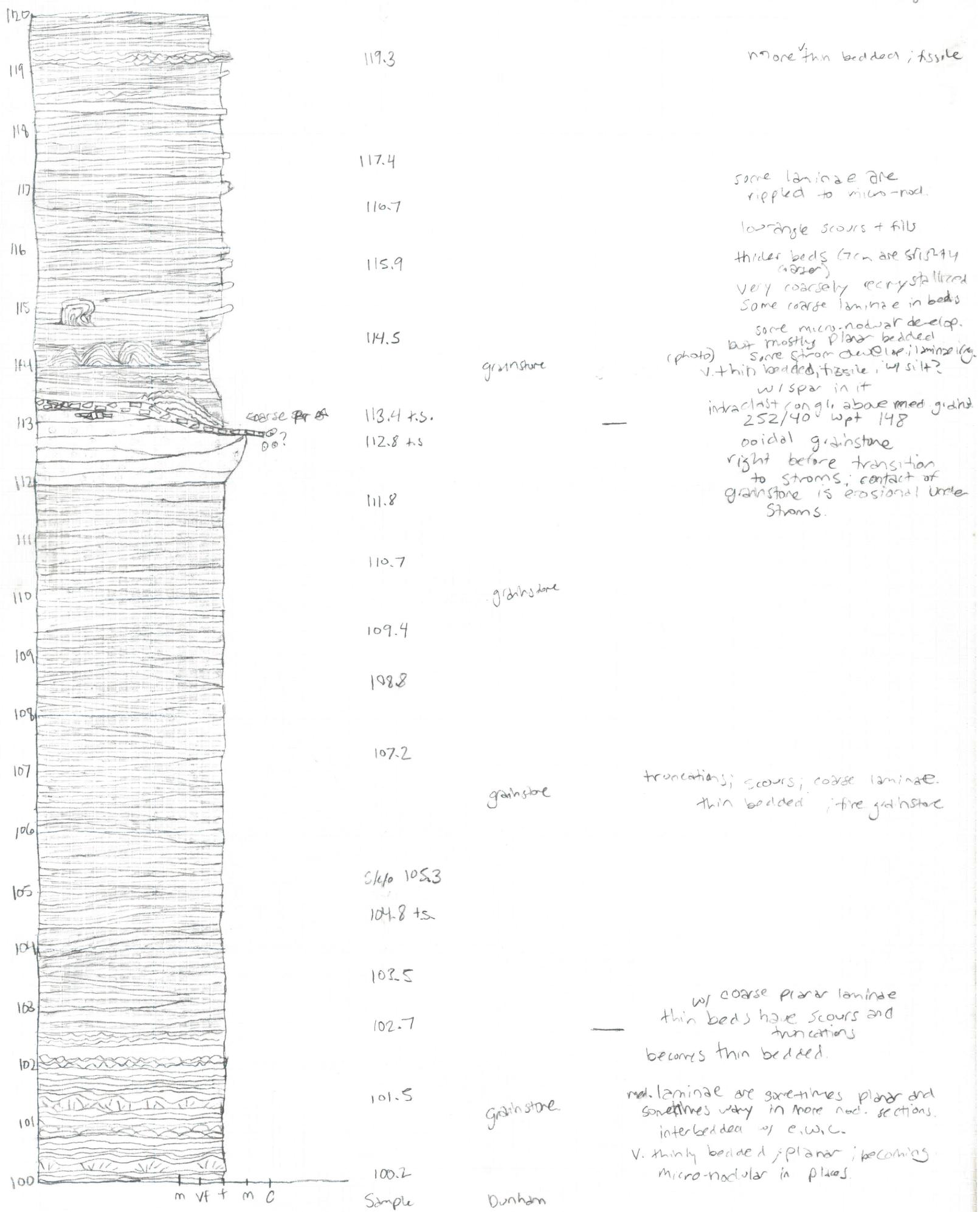
v. thin wavy to nodular bedding

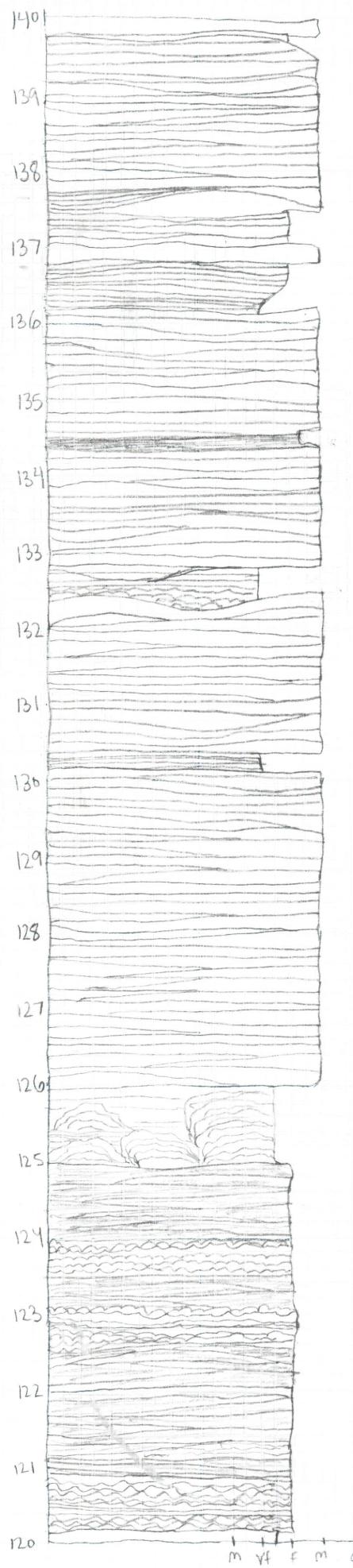
yellow matrix & nodules (like ramp)
photo

v. thin bedded; wavy tops recessive brown beds
micro-nodular weathering
thinner beds

brownish in color

photos of x-strat w/ chip breccias in larger swales





Small storms are ... laterally equivalent but there are few of them
(photo) of clear homomack??
two intervals of fine grained v. thin bedded grainstone

caves developing becoming more weathered on inside
yellow + red.

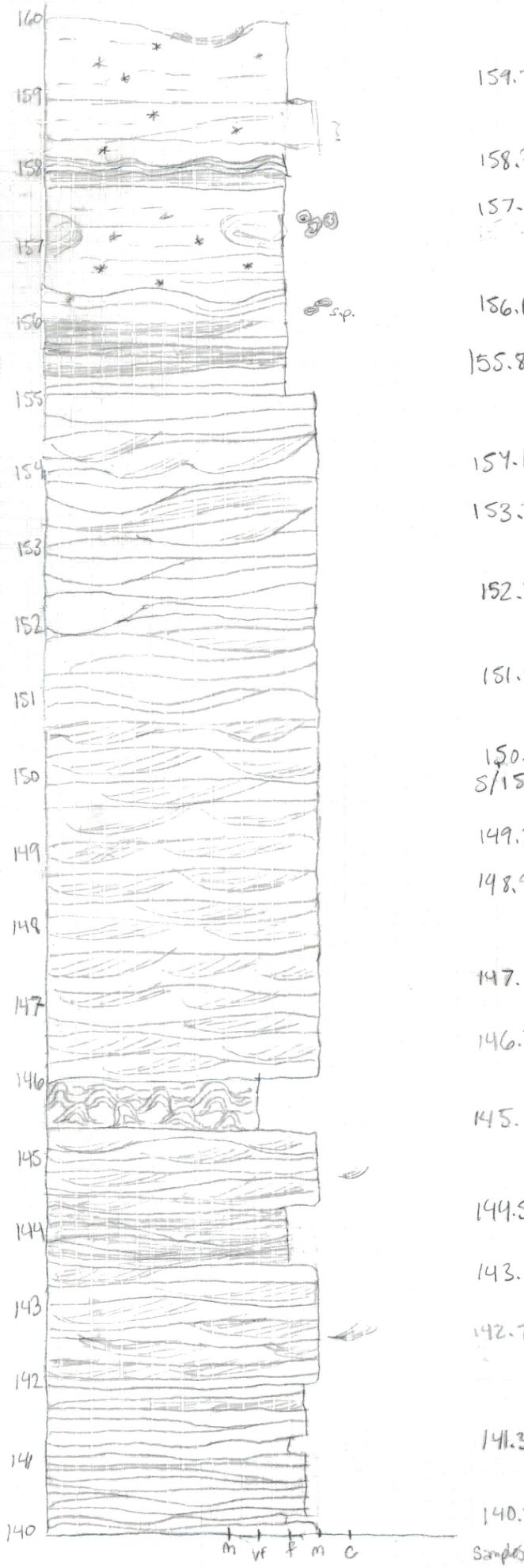
Within beds pinch gravelly macro nodular grading into v. thin bedded beds on top
Way bed top (photo)

↗ v. grained; laminated planar within bedded. not recrystallized in the same way as below.

possibly completely recrystallized ooids??
became thin bedded med. grained fewer laminae
storms w/ coarse irreg. laminae;
recrystallized but look finer shape can be irregular in one dir. or more uniform fill is sim to bktd. segmentation.

(photo)

Continue Scours; low angle x-strat
some micronodular modif. of beds
these appear to be scour beds w/ rippled laminae



anoxic laminated cretum fill

bedding is hard to decipher
only few intervals where
bedding + laminae apparent

still very cavernous
no textures or grain size
visible in rock - very
pisolite look & laminated
more soil pisolite development
along bedding planes

coarsely laminated
on back side fine grained
top of crest; wpt. 149

best example yet that these grains
are ooids but it is still heavily
recrystallized

laminations become more rare

still thin to med. bedded w/
high angle scour

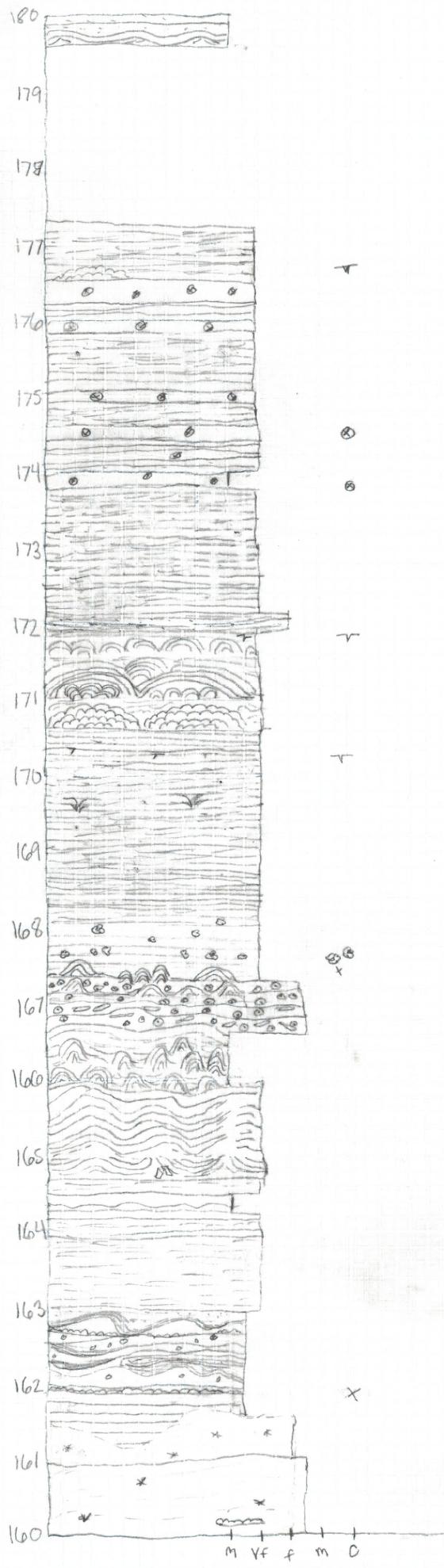
begin spar filled veins

begin pink-yellow weathering
strains are small; finely laminated
irregular
med. grained x-bedded; med bedded

more planar low angle laminae

higher angle x-bedding
character of bedding changes to more
med bedded

some laminations coming back in
looks slightly finer in high sample
(less recrystallized) still thin bedded



micrite w/ small tepees + fractures

Small bit of cover

capped by red-washed
silstones + fine sandstone
stroms or pisoids

Carbonate beds are 10-15cm
thick w/ calcite spar

carbonate beds w/ spar interbedded
w/ siltstone
thick bed of carbonate w/
pockets (calcite)

return to very thinly bedded
siltstone
fine sandstone

overlain by well laminated compound
stroms
stroms made of layers of pisomite
mudcracks in siltstone

pale yellow w/ laminae and pisoliths
very thin bedded siltstone ?? w/ some
b.s. wpt 150 (photos) carbonatite
stroms! cement (carbonate)
v. thinly bedded fissile beds w/ chalcedony
spheres + ooliths w/ intraclasts veins
smells like sulfur

tiny irregular stroms

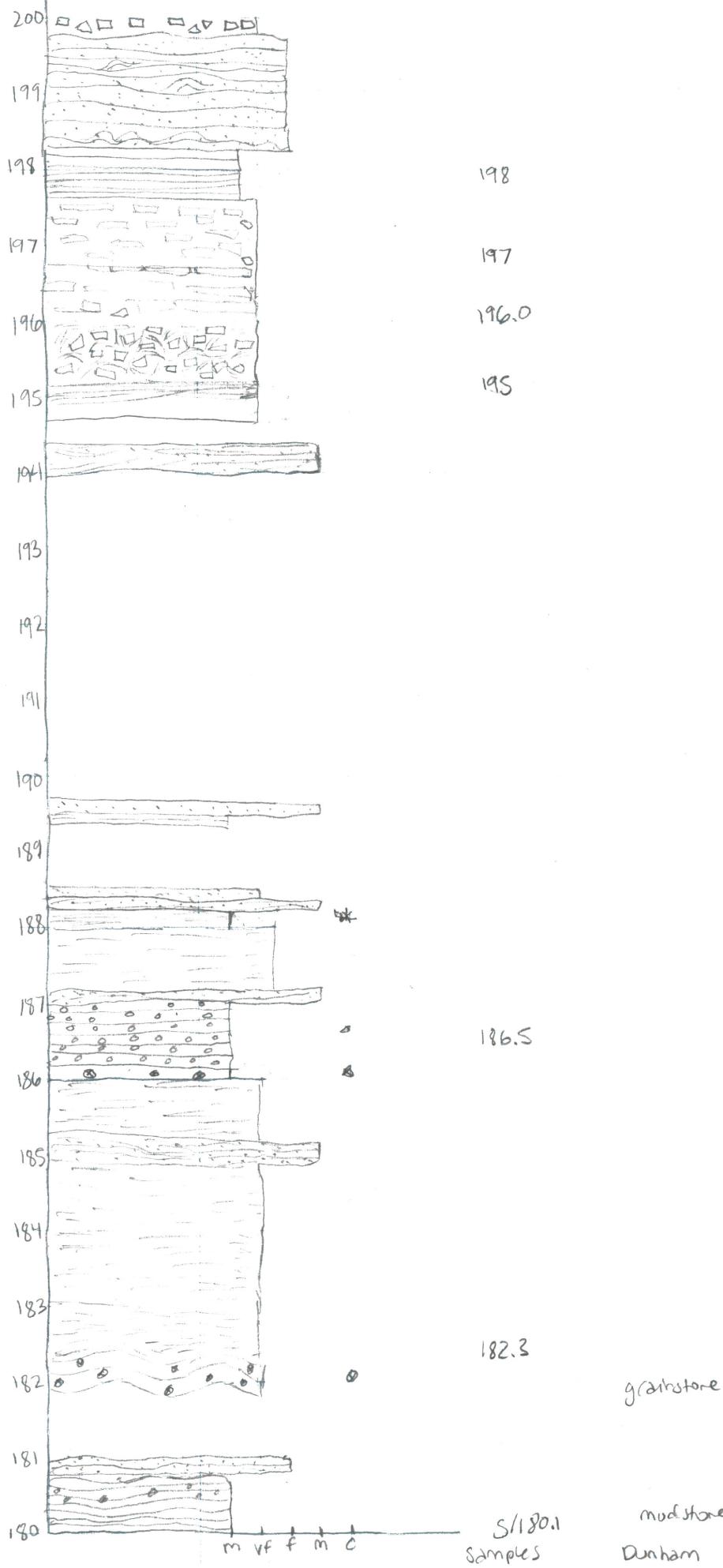
alternating coarser dark layers w/
white micrite; some beds brecciated
and discontinuous

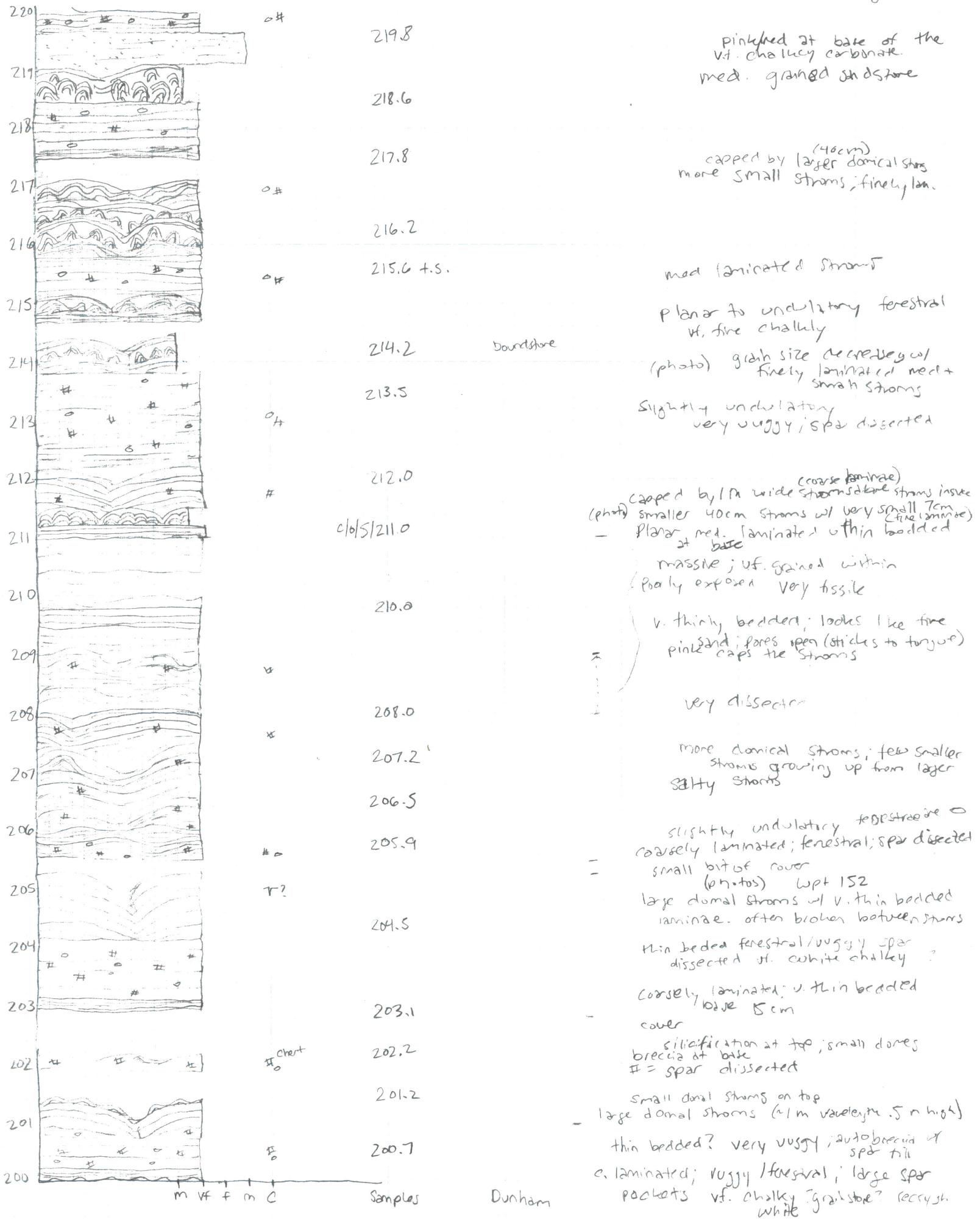
then cream thin bed of micrite
weakly topped band of silica

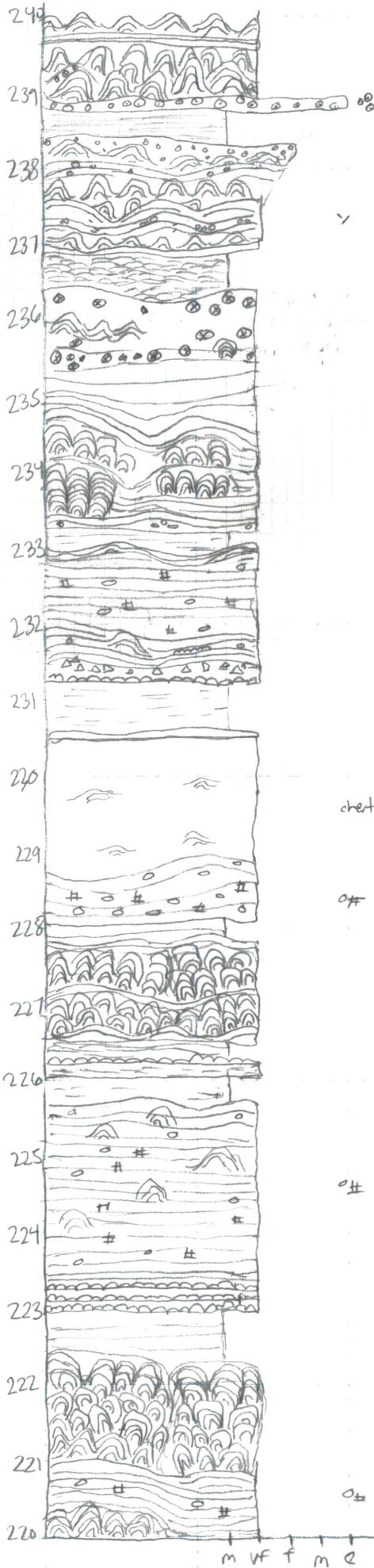
fissile w/ peloidal? grainstone
vertically bedded
tiny clear beds (silica?) follow silicification on one
side

chalcedony cavern (photo)
thin bedded interbedded w/ pisomite
micrite w/ possible laminae
some silicification 33/33 more pisomite
very pink; fine grained/recryst. laterally variable
Continue coarsely recrystallized; massive
possibly ooids.

Laterally there is a large south of
breccia that is filled over by more pisoids
and pink micrites (photos)

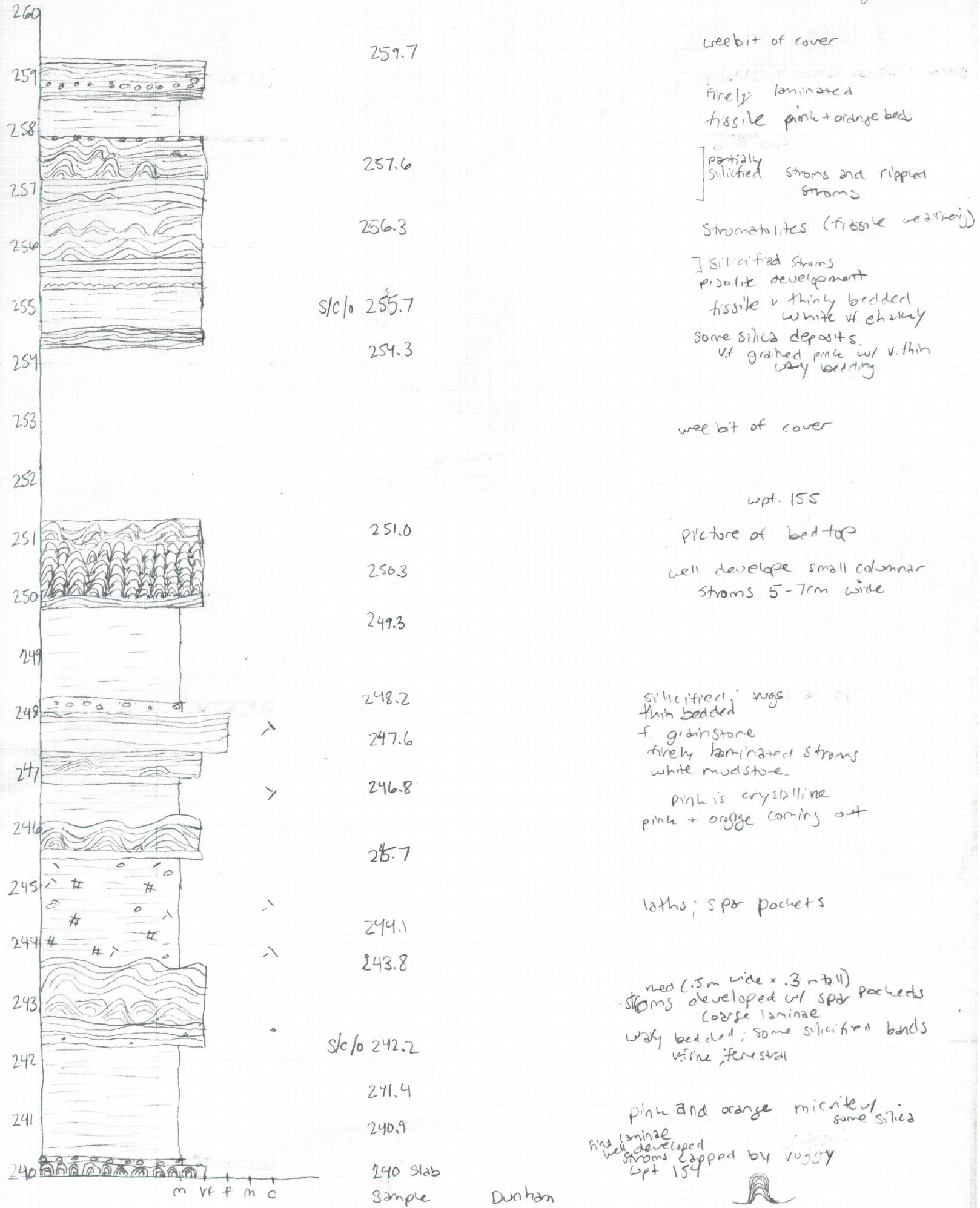


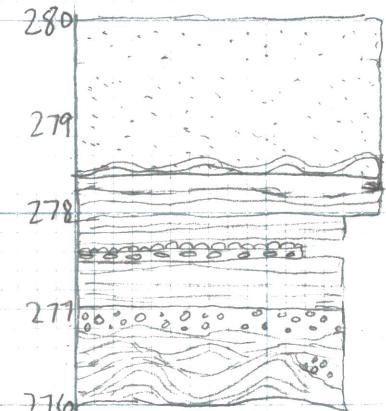




Samples

Dunham





275

274

273

272

271

270

269

268

267

266

265

264

263

262

261

260

278.6

277.6 (forest mud?)

277.3

276.2

272.5

271.5

S/C 269.3

268.1

267.8

266.8

265.6

264.8

263.2

260.5

Peach fine sandstone w/
ripples at basesilicified; Orange recryst fine
grainstone
forestal muds? ↗highly silicified but includes
stroms + ooids
(check sample #1)Wee bit of cover in lower
parasequencestill silicification
just matrix some spot dissect.↑ grades into fewer *
coarse l. lam in places
thin bedded in lf.
matrix possibly some lambsinterbedded freely laminated stroms
in lf. grainstone w/
beds (coarsely laminated)capped by pisoid/ooid bed
v. thinly bedded lf. lam.
within beds - fill
laminae become more irregular, stroms
finely laminated stroms
more silicified
med. grained coarsely lam. stroms
silicified wags / in a
finer matrix

red. grainet w/ some pisoids/ooids

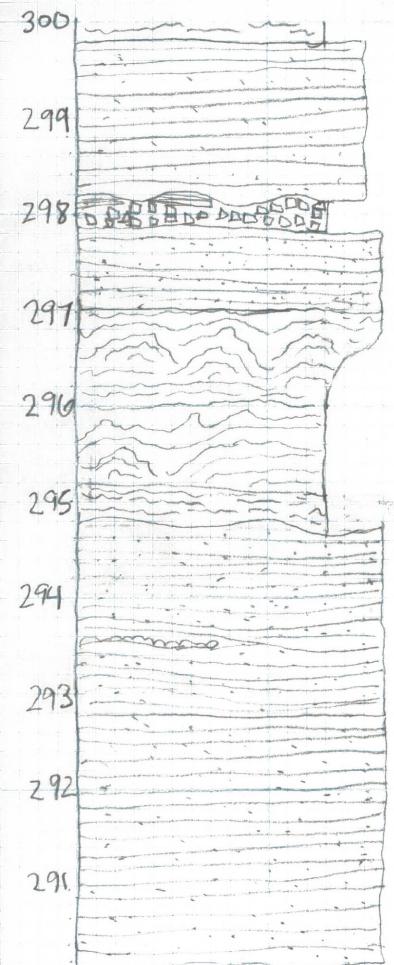
M YF F M C

Samples

Dunham

MD2 Bush-Sicaks Page 13

silicified irregular laminites



299

297

296

295

292

285

280.5

Samples

red w/ tan grained sandstone
breaks open orange.

completely silicified, brecciated?
some laminites at top
fine grained red quartz sand
bed top is red w/ pisoids developed
in it.

fine packstone at top

(7cm tall by 4cm wide)
w/ small irregular stroms above

nearly silicified microbial laminites

fine grained peach
sandstone w/ some
interbeds of pisolite and
white chalky micrite (2cm)

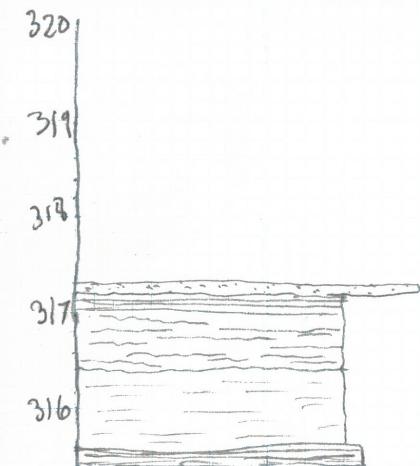
lots of cover

med. grained quartz sandstone

bit of cover

(5) 250/55

wpt. 157 b.s.
thin veneer of cream micrite / chalky
wpt. 156 more sect. e.s.
silicified; small stroms near top
irregular microbial laminites

317.3
317

purple sandstone on top
med. laminated + planar at top
irregular laminites
v. thickly bedded
fissile, white, chalybe v. thickly bedded
v. thinly bedded laminites
vtf. grainstones

315.5

bit of cover

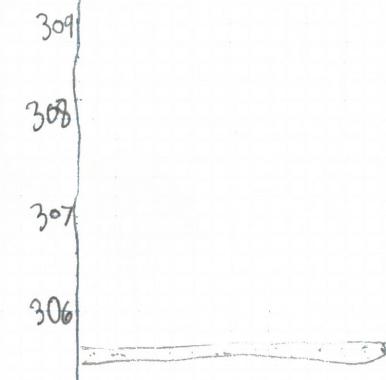


312

311.1

S/lo 310.0
310

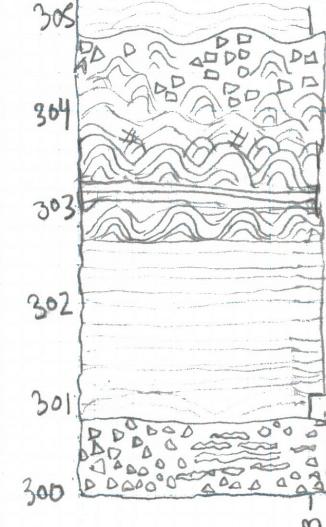
Closely laminated fine grainstone
w/ spar packets
vuggy, spar-filled
brecciated; some hint of
irreg. laminites
very thinly bedded vt grainstone



305

isolated beds of fine pink quartz sand.

fine white micrite w/ some low stroms

303.6
303

brecciated but can still see stroms
v. finely laminated stromatolites
in v.v. fine mudstone/grainstone

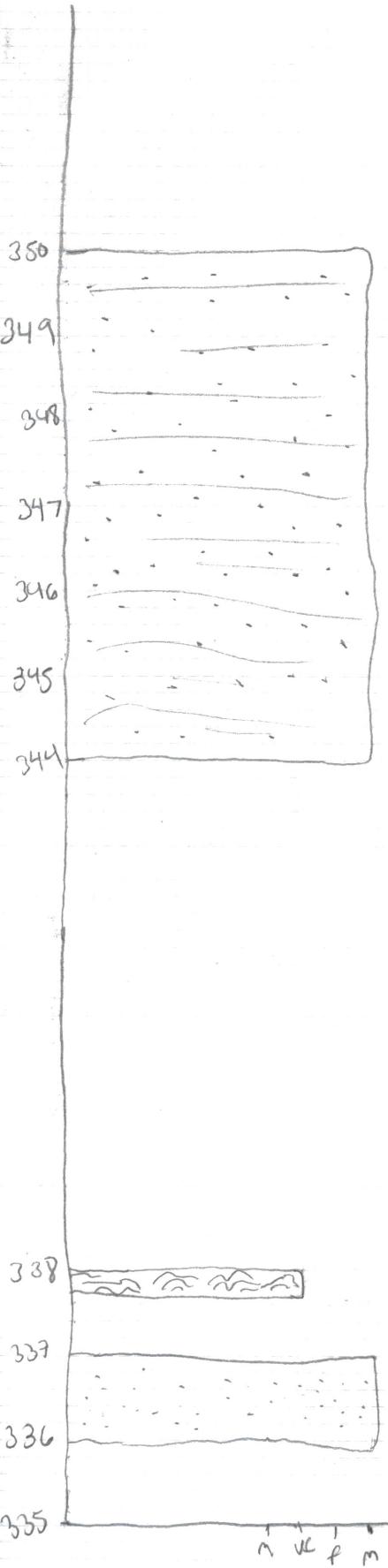
301

v. thinly bedded micrite
fenestral w/ stroms at base

Samples

Dunham

above silicified irreg. laminites
silicified breccia of irreg. laminites
(photo)



poorly cemented 1822
pink m. sandstone
likely the marker bed
elsewhere
v. coarse clear sand

nearly stratified irreg. 1m

deep red m. sandstone

817-335 core
big cover - some
red silt intercalations