

Samples

Dunham

beneath more well bedded; v.f. to  
the edgewise c. are mudstone mudstone  
clasts. return v. thin bedded; fissile micronodular  
thin bedded; wavy almost all e.w.c.  
v.fine grained

40 cm package of e.w.c. that can get v.combined  
yellow beds; possibly x-fine ooids  
x-bedding  
More Section Slightly Wpt. 132 b.s.

mostly in cover; outcrop to side looks  
continuous

v.v.fine grained; v.thinly bedded planar  
wrinkly micro nodules wpt. 133+ s.  
grain size inc. stone; looks like top of  
Many more e.w.c. in this a shallow  
sector

wrinkly/micro nodular bedding almost  
looks flaser in some cases

very wrinkly/micro-nodular interbedded  
w.e.w.c.

v.thinly bedded; v.fine grainstone  
mostly weathering out of hill

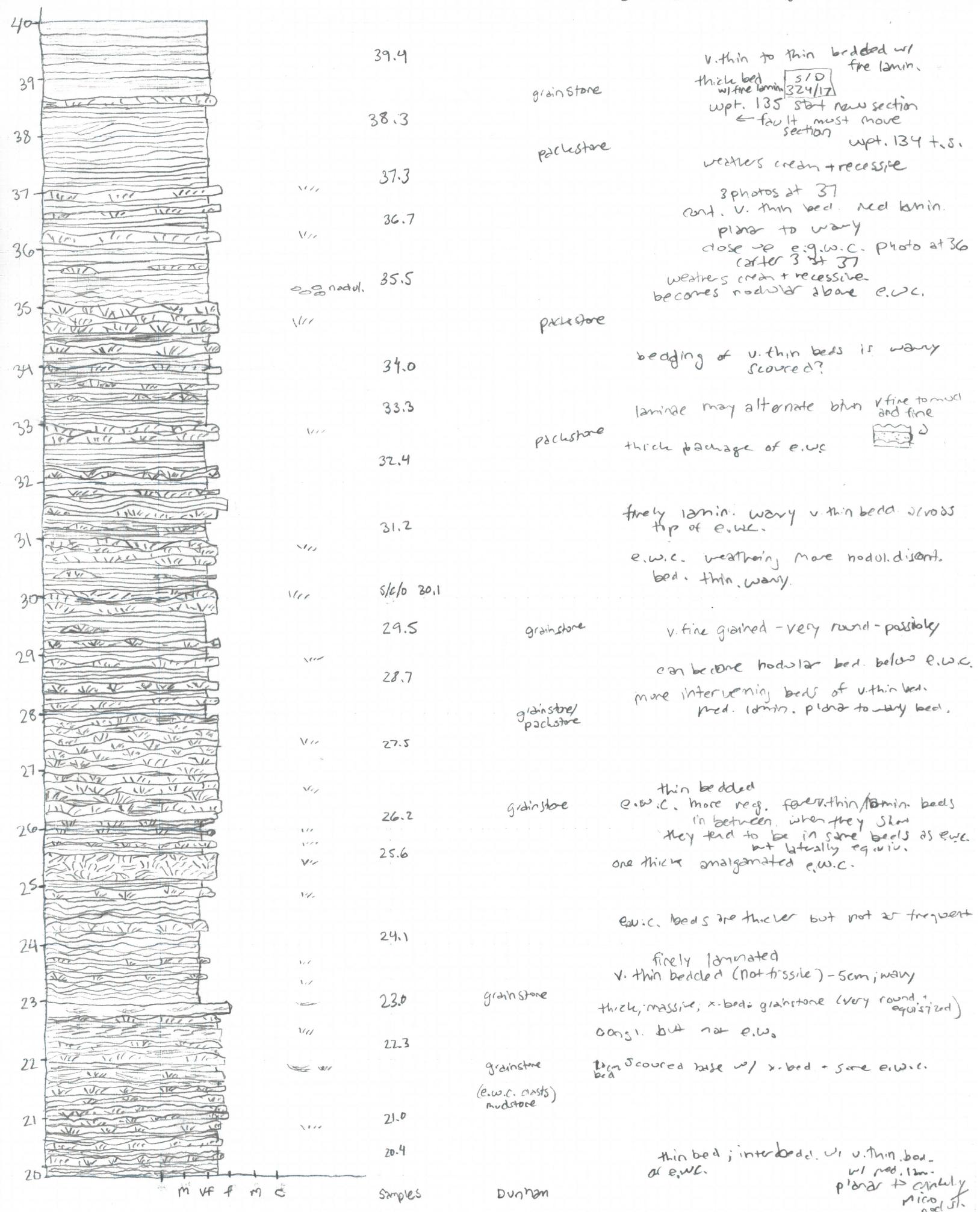
grain size fine  
more thin bedded; med + coarse lamn.  
(more cohesive?)

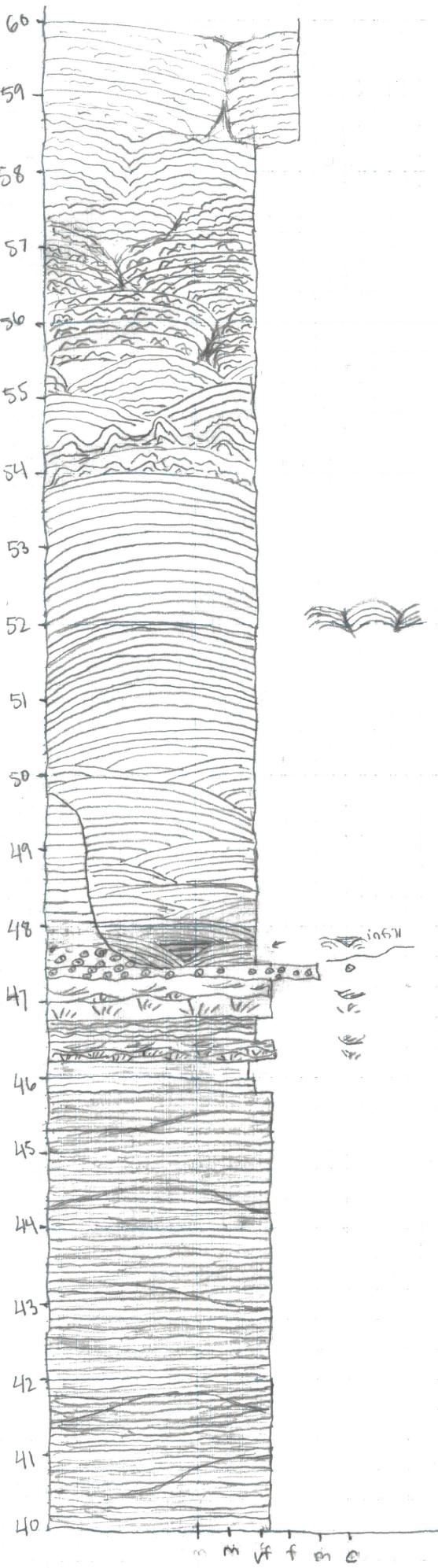
e.w.c.  
more planar

v.thinly bedded. more wrinkly; med. laminated  
e.w.c.

More or same but occasional red is wrinkly  
med. laminated; v.thinly bedded v.fine  
weathering fissile  
package of alternating v.fine/coarse lamn. fissile  
beds; e.w.c. ~ every 30 cm. and thin beds  
v.fine with laminations; x-bedding, scoured bases  
v.thinly to coarsely laminated vt quartz sand/silt.  
intercristal rounded  
scours at base v.thin bedding, x-bed.

e.w.c. wpt. 131 b.s.





thin to med. bedded; large scale  
2-3 m width stroms

Irreg. laminated to micro-nodul.  
med scale (1m wide)

laminae become micro-nodular

v. coarse  
individual laminae are micro-  
stroms w/ irreg. laminae

laminae are irreg to crinkly

smaller than before stroms grow  
up, but still low domal

small scale stroms growing up from  
main surface 

weathering of laminae - micro nodular

New stroms are meters tall

\*this change account  
for dip change in  
strom laminae are med. to coarse core?

30-50 tall x 100-150 wide stroms

see same oolite scour into it.

346/24 begin section wpt 137

end section wpt 136

fissile, v. thinly bedded light cream stroms  
w/ planar bed infilling

oolite w/ some grainstones ?

e.w.c. under x-beds, v.f. grainstone

No dolomitic bedding

x-bedded on e.w.c. beds

weathering recessively; within bedded v.f. grainstone  
no laminae

possible low amplitude Scours? HCS?  
or some sort of even stroms

weathers w/ orange lenses in a few beds.

v. thin to thin bedded planar, finely laminated  
v.f. grainstone

← hit a major fault at top of Ridge  
wpt. 138 end. sec.

still coarsely recryst.  
soil pisolite sample taken

more bedding is apparent  
but still no textures

very large caves;  
red character to rock

hints of thick bedding

very hard - some silification?

massive  
but clasts contain laminae or grainst.  
coarsely recrystallized

Sandstone

capped by light pink to yellow  
cavernous breccia w/ spar

begin intensely weathered / recty. z.  
coarser grained larger ampit. shms  
grain size increase.

laminae become more irregular

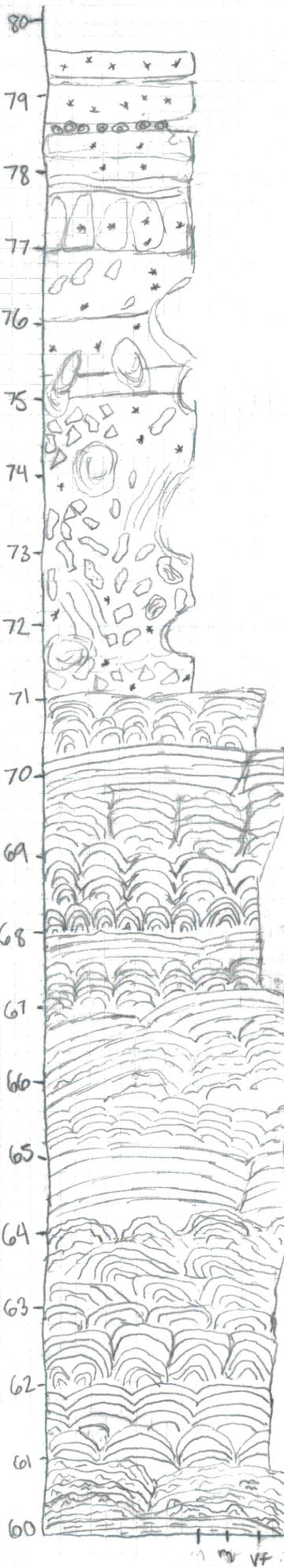
photo of smaller columnar  
shms

weathering blocky

relief of entire mound is  
large (3-4 m)

small shms capped by few  
large wavelength  
finely laminated; irregular begin  
to get smaller (10 cm x 10 cm)  
irregular shms  
begin slugs, asym. became more  
symmetric  
thickly bedded photo at 61.5  
smaller 10-20 cm across  
1 m high

laminae in beds become more  
irregular; pronounced + connected



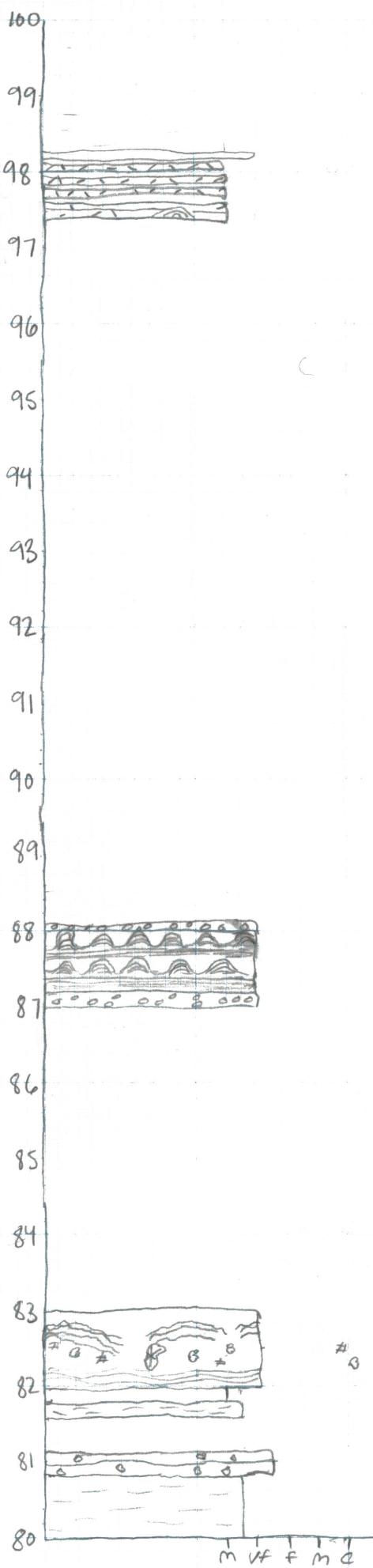
S/10 6.2  
Samples

Dunham

wpt. 261

beds weathering fissile

V.f. grainstone  
all ~~are~~ shot through w/ spar and are  
10% grt sand v. orange  
more vuggy; aragonite lam filled  
v. thin bedded vuggy mudstones  
Some large Chert nodules to w.  
grainstone



Samples

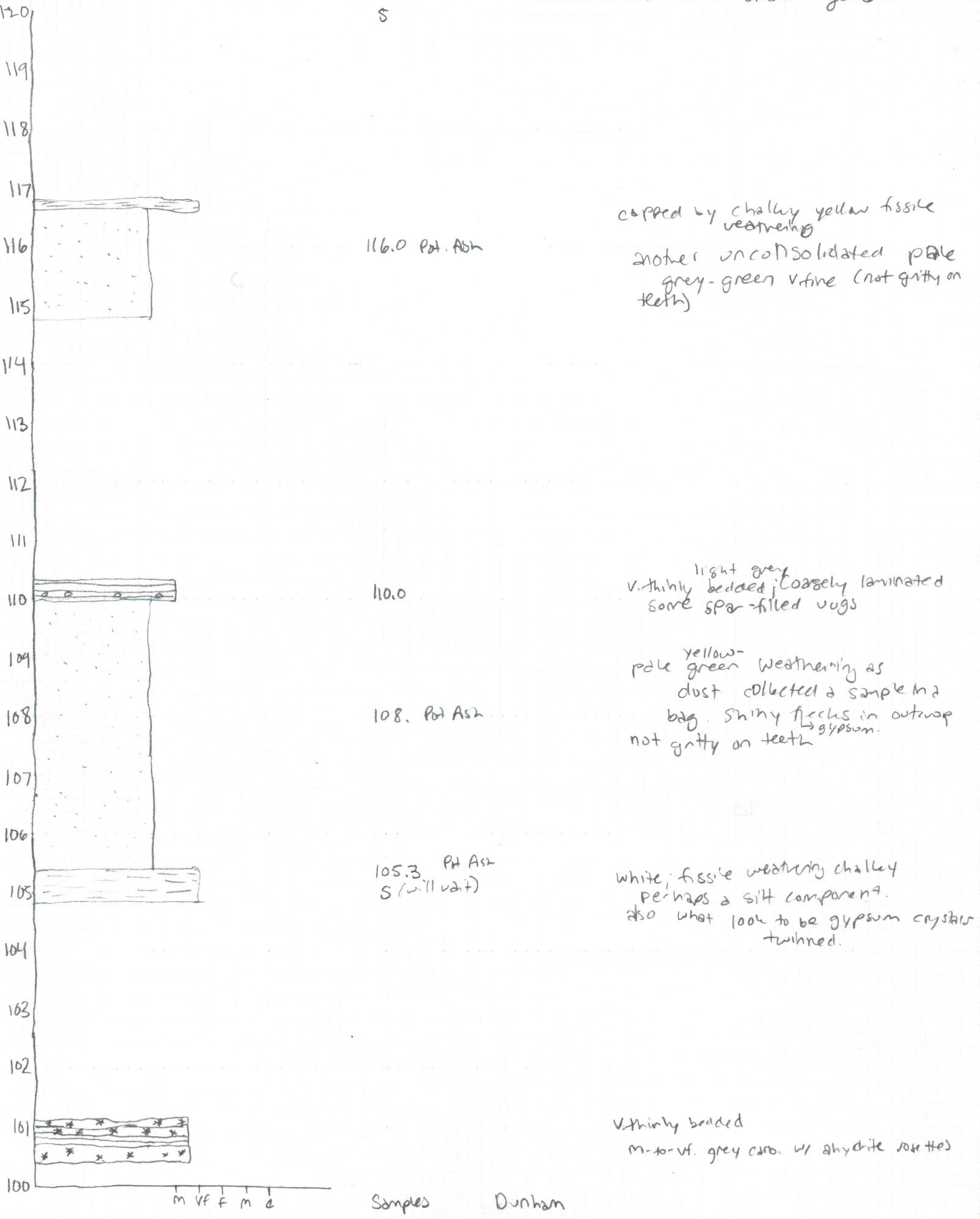
Dunham

irregular  
v. gone coarse laminae, Spar pockets  
silica nodules

Cap of grey micrite  
chalky white v.f. weathering vuggy

v.f. thin bedded orange w/ some siliceous periods  
white chalky; v. fine; fissile w/ some orange  
spar veins

DD/80/80 Wpt 260 b.s. top Buah at  
base of back side.



MDI Bush-Silvito Page 7

Wpt. 264  
quickly goes to wavy Spar-filled  
base finely lamin. Small stroms  
the grainstone gap

some silification  
of upper strata

2 bit wavy; V. low domal  
stroms; Spar pockets  
base small stroms with v. small  
1st bed at truly 88°<sup>on</sup>  
top

in-situ breccia w/ spar fill  
thinly bedded; med. lamin. Planar  
wpt 262 110/85  
vt. grainstone  
beds become near vertical

in-situ  
breccia w/ spar fill; wavy  
Some clasts vt. grainstone

finely laminated; low domal stroms  
vt. grainstone.

marlstone; with thin bedded  
round fenestrate - some open  
Some closed w/ spar

weathering

fine grainstone; thinly bedded  
coarsely laminated  
vt. grainstone; vi. thinly bedded

weathering

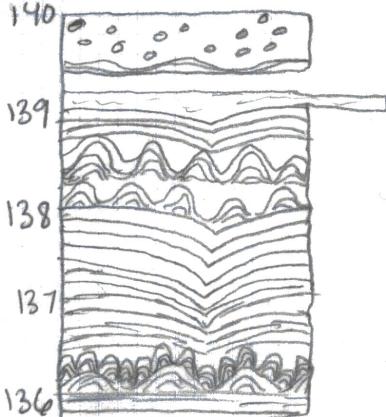
lo-sit  
breccia w/ wuggs; Spar dissected

med. lamin. beds at base

wpt 263 110/40

med. grained qtz sandstone w/ carbonate  
more green grey silt/mud  
weathering fissile.

chalky; v.f. Spar filled



139.2

138.5

137.5

136.2

134.5  
8/134.5  
2 ft. thick

131.1

130.3

126.5

123.0

121.2 (says 121.5)  
120.5 Pot Ash

Sandes

Dunham



135



133



132



131



130



129



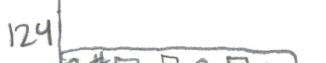
128



127



126



125



123

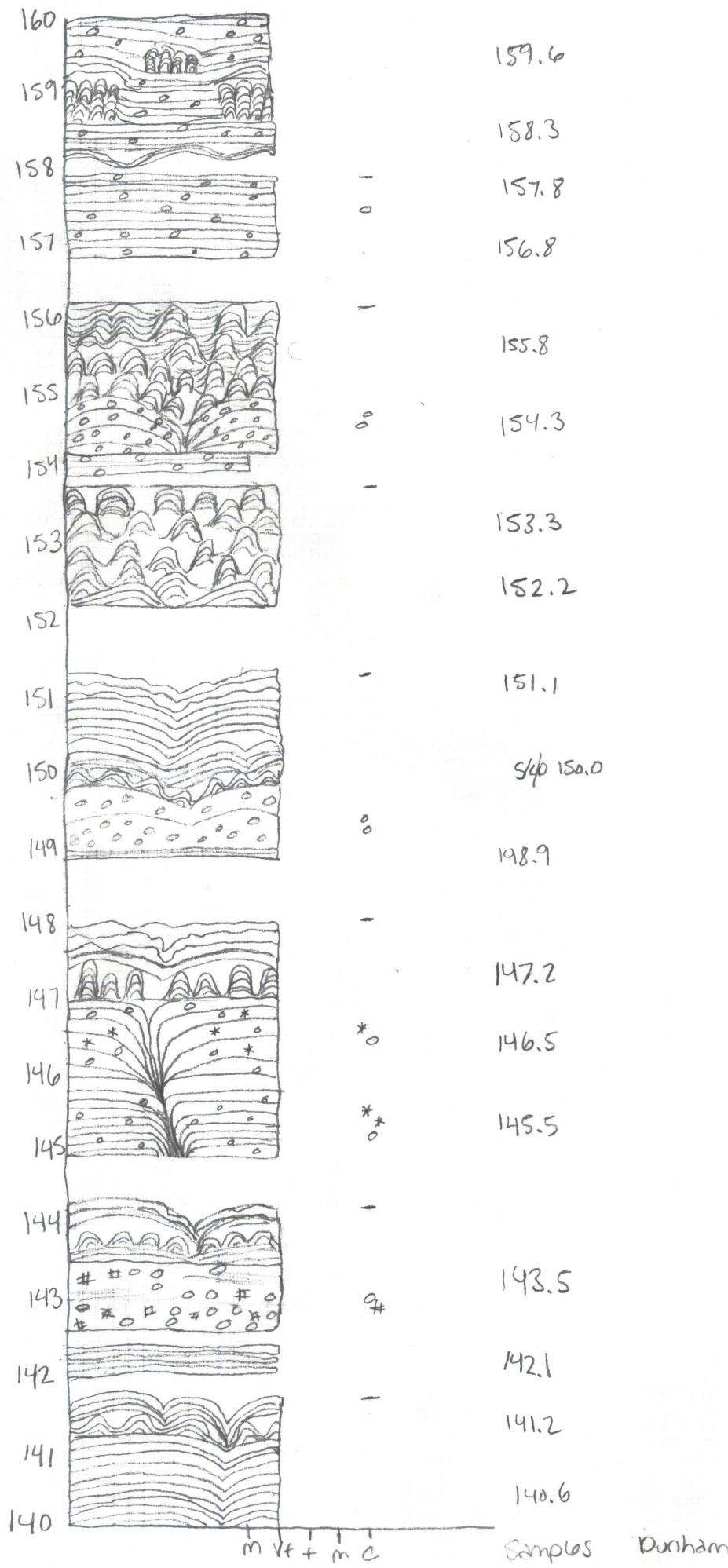


122



120

m vf f m c



P.S.  
↑ continues

spot filled  
w/ some planar vugs in b/w.  
small bioturb. of finely lamin. strns  
spot filled, v. thick bedded  
wavy, spot filled vugs w/ v. thin  
bedded

silicified upper beds  
v. thickly bedded; wavy +  
weathered locally

Wpt 265

top of hill here will move south  
+ large spar pockets, dissected, yellow  
thick seq. of smaller domal stroms  
finely laminated; connected; heathy  
low domal vuggy spar-filled pockets  
stroms - not connected across  
stroms

this para seq. more small finely  
lamin. stroms - the are tending  
to become more flat topped.  
Somewhat elongate irreg. stroms

bit of cover

Some silicification remains of  
grained

silicified, vuggy, spar filled  
v. thinly bedded  
bit of cover

silicified; still lf. grain store; irreg.  
stroms hints of  
small stroms w/ fine lamin. x-fn?  
v. fine grained slightly taller  
(20cm)

interesting stroms - they are  
more steep sided and flat  
(photos)

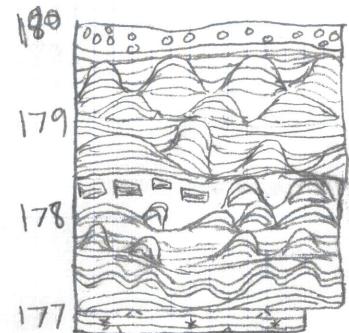
a little vuggy w/ spar

bit of cover  
w/ some silicification  
capped by more domal stroms  
some smaller finely laminated stroms  
low domal stroms w/ coarse laminae

vuggy spar filled

lf. grain store; v. thin bedded  
not laminated

low domal stroms continue to be  
~1m thick although I think  
they began in the vuggy interval



176

175

174

173

172

171

170

169

168

167

166

165

164

163

162

161

160

S  
180.0

178.0

177.0

174.4

173.8

172.6

171.9

170.5 (spar filled)  
top  
170.4

169.6

168.0

167.2

166.9

S/164.8

164.8

163.8

162.8

161.8

160.5

on the uppermost surface  
silicification in ruggs

Wpt. 272 b.s.

Wpt. 269 e.s.

brecciated top (very little  
silicification movement of clay)

Gordon thinks its real

Stroms w/ very bedding interbs.

mudstone s at base of lams +  
rose bedsbit of cover  
(top of 1st Ridge)capped by micrite (sim. to basal m.)  
becomes silicifiedsmall domal stroms w/ some more  
wavy laminationwavy bedded mudstone w/ small  
spar-filled fenestrae; coarsely laminated.continue to be elongate in the dip dir.  
move section (110/78 Wpt 268)spar-filled top bed on stroms (sample  
Wpt. 267)  
the domal stroms at the top are  
elongate  
stroms are fine to mesh lamination  
but more irregular in shape

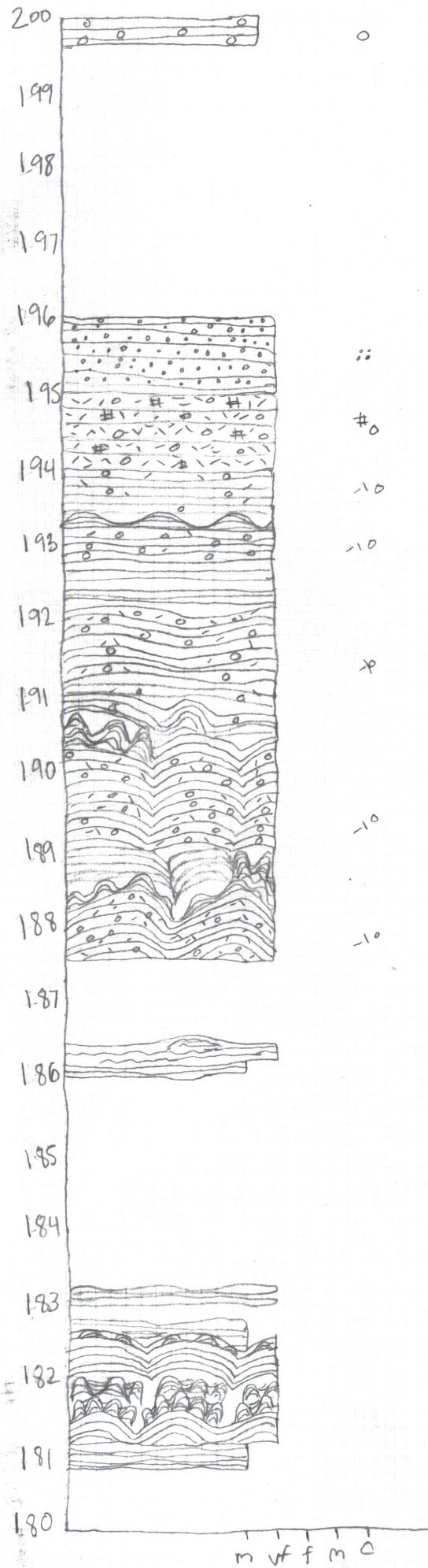
Patchy silicification

very vuggy and spar filled  
coarsely laminated domal stroms  
or a variety of sizes  
spar filled to oval  
round fenestrae in micrite  
coarsely laminated\*very prominent gap of cover  
hope to trace laterally.\*silicified places in the uppermost  
bed - spar filled.finely laminated small domal  
stromatolites; interconnected  
In b.m. If. grainstone stroms are oval  
filled.there are stromatolites within but  
much of it is planar.  
Very vuggy, l. thickly bedded;  
coarsely lamination.v. thickly bedded; filled w/ yellow sp.  
distinctive yellow beds Capping  
P.S. travertine laterally

M U F M C

Sample

Dunham



199.8

195.6

194.5

193.2

192.5

S/192.0

191.1

190.1

189.0

188.0

186.0

183.0

182.0

181.0  
S/181.0

Samples

Dunham

Micrite w/ v. large round vugs  
mod. laminated; v. thinly bedded  
most vugs are spar filled

bit of cover

now on floor of saddle <sup>wpt</sup> 273  
different kind of vug - pin point  
back to grey beds

above 194. Leds become more  
spar filled; yellow  
full of lamhs

Vugs remain round to oval to flat

less vugs more v. thin bedded  
beds become more flat lying

few isolated small stroms but mostly  
flat lying vuggy, sparry, lath filled  
chalky within beds

vuggy, spar filled; c. lamh. chalky  
lamhs c. lam. strom w/ deep  
most places return to side but few places.  
in the finely lam. small interconnected  
by siltstone grains - still v. fine  
lamhs; vugs domal stroms More packed  
+ taller also  
chatty; v. f. spar pockets elongated  
coarsely laminated  
↑ seems like one package; no obvious  
breaks but weathering out of hill

irregular laminites w/ silification and  
some domal action laterally  
micrite w/ coarse planar laminations

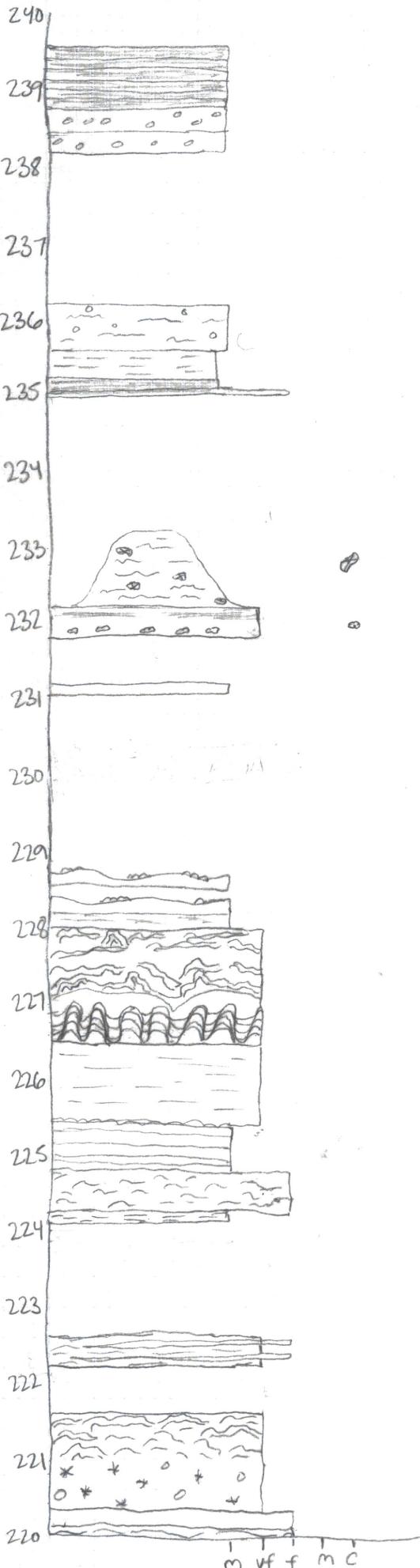
rubble of back slope

chatty  
v. thin beds, some silification  
vuggy

micrite on top - v. thinly bedded  
capped by v. thinly bedded low stroms  
w/ finely lam. interconnected stroms abd  
med. height elong. stroms (coarsely (and)  
micrite; v. thinly bedded; coarsely  
lamin. at base  
bit of cover

220		220.1	partially silicified; fine grainstone capped by vf. grainstone v. thick bedded.
219		219.2	
218		218.2	
217		217.2	v. thin bedded fine grainstone; ooids alternating pink + white co. laminae
216		216.4	
215		215.5	silicified top bed fine grainstone; coarsely laminated (some red lam.) discontin. flaser bedding
214			more cover
213			
212			
211		210.2	v. thin beds of vf. grainstone on top into rippled f. grainstones
210		S1210.0	heavily silicified irregular laminites (almost pustular) at the base
209			
208			Cover - same thing as last time orange unconsolidated sand silt under the armor
207			
206			
205			
204		204.4	completely silicified; fine grains visible coarse laminae rippled
203			
202		201.8	Cover w/ unconsolidated orange silt; f sand? under the armor
201		201	becomes less well bedded more spar filled lacy vugs thin beds of mixt w/ o. o. spar filled foralite chalky; v. thin beds; mostly spar above ooid cap
200			Silicified; irregular laminites to small stroms
	m vf f m c	Samples	Dunham

S



Samples

Dunham

v. thinly bedded; med lamination  
mudstone  
med. bedded wavy mudstone  
mudstones are a pale purple

covered interval w/ unconsolidated red siltstone

massive pink mudstone w/ some irreg. lamination & fenestrae  
fissile weathering grey mudstone

pink fine grainstone w/ sparse silver mineral (from yesterday sample)

this part thickens and thins laterally; yellowish irregular laminae  
wpt 275 moved sections slightly  
v. f. grainstone; med. lamination massive  
silicified pisoliths at base of bed

v. thin bed of massive grey limestone

thin bed of massive grey limestone  
with some irregular laminae

w/ some silicified pisoliths on top  
wavy massive grey mud; bed tops  
pink fissile weathering mudstone  
top is interbedded red v. f. grainstone  
white siltstone  
irregular laminites; partially silicified

(photo) bed tops  
beautiful tall (soem) interconnected domal  
then red v. f. grainstone - weathered  
opposed by pink mudstone w/ pisoliths  
white v. thinly bedded massive mud.  
108/80 wpt 274  
recrystallized.  
w/ silicified irreg. laminites  
fissile weathering mudstone

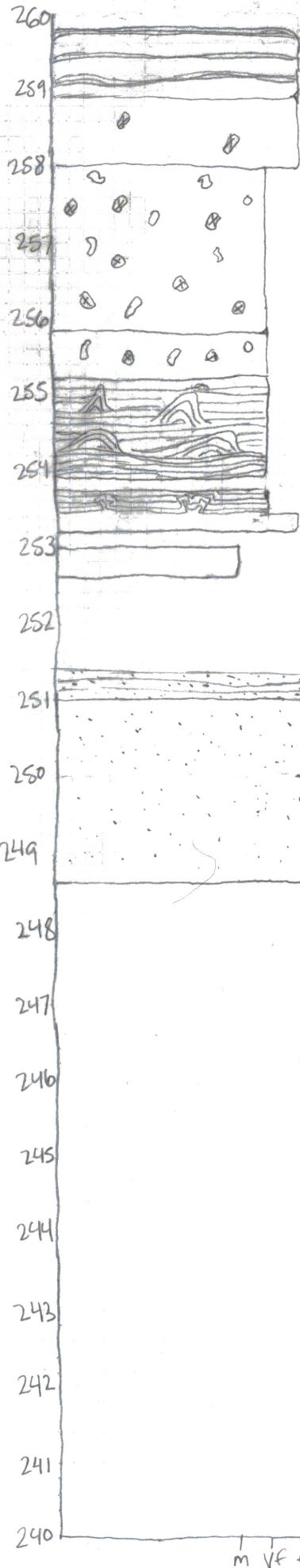
heavily silicified; corals, laminites.  
alternating vf + f grainstones.

recrystallized; vf. grainstone

heavily silicified irregular laminites

221 Sample strange mixture w/ odd ooids  
vf. grainstone  
silicified; wavy; nodules

fine grainstones; part. recryst.



259.0

258.0

257.0

256.0

254.9

253.7  
S/253.7

252.8

20 cm of cover

silicification in last bed

fine grained; once ooids?

no hint of lamination

massive bedded; v. thick

highly weathered; deep yellow

recrystallized

vt. garnetite  
spar pockets; vuggy

Contact is silicified / unsilicified

heavily silicified; some brecciation

likely during silicification

fine old stroms in med. lamination  
upper half is med. laminated w/few  
base of bed (if grained) massive  
magrit

look like peloids

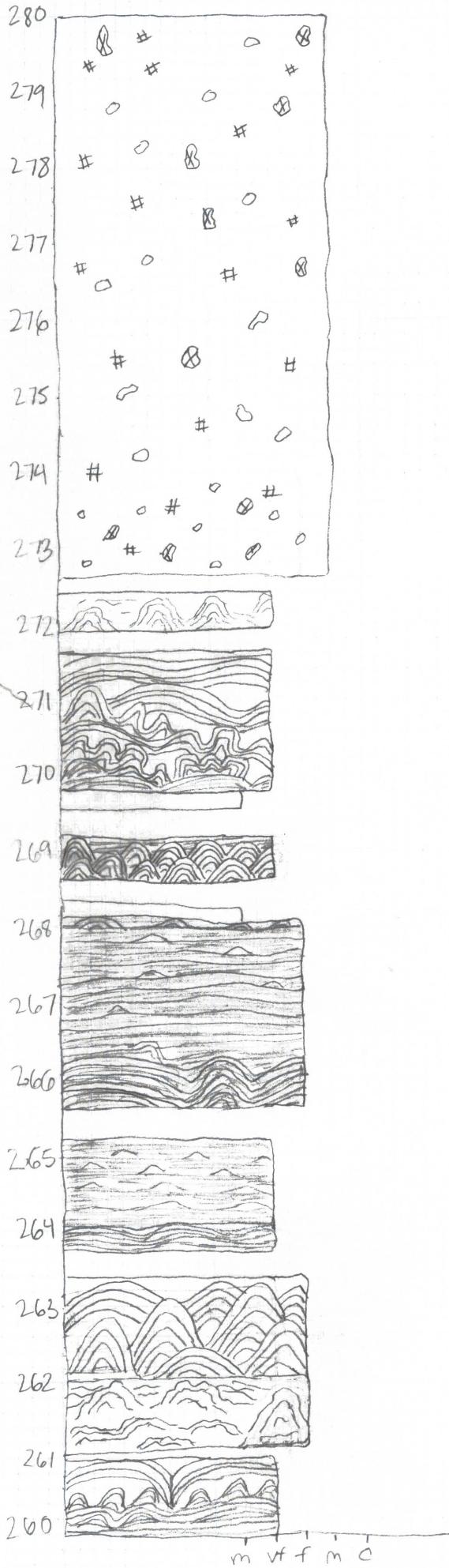
massive mudstone; some small  
vugs

V. thin bedded deep red topped med  
massive white med grained  
gtz sand (loss consolid. at  
Wpt. 277 b.s. top)  
Wpt. 276 e.s. more over a bit  
massive med grained red gtz.  
sandstone (Upper Shallow  
member, marker bed)

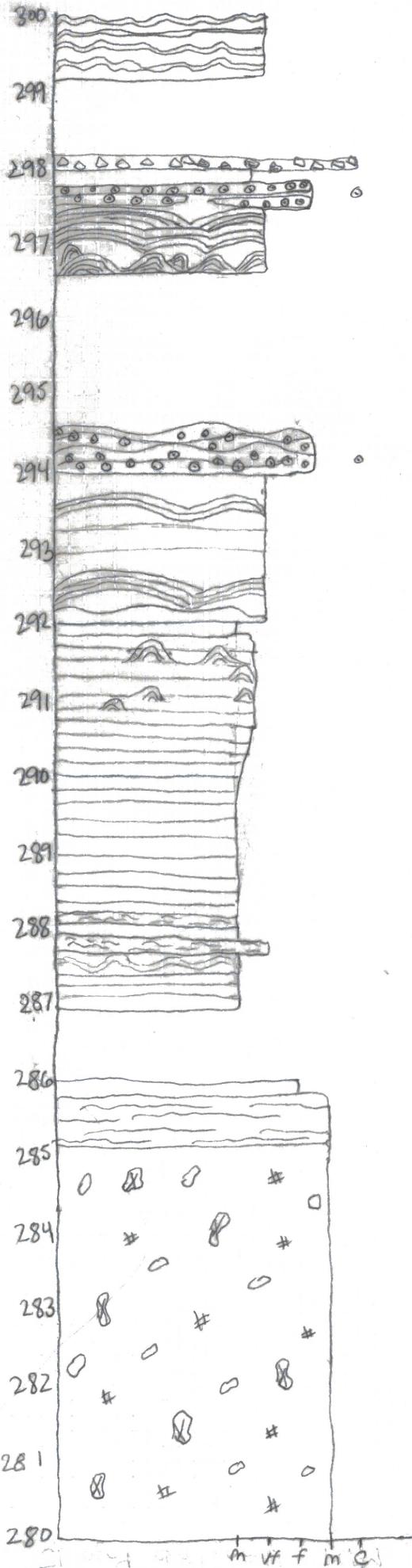
begin reaching up 2nd main  
slope - outcrop is  
non-existent covered by  
large rubble

S  
Samples

Dunham



- 280 t.s.  
279.0  
278.5  
277.8  
275.8  
274.5  
273.4  
272.2  
271.5  
270.3  
S/270.3  
268.8  
267.8  
266.8  
265.2  
264.5  
263.2  
262.4  
261.7  
260
- Dunham Samples
- there are white grains visible in most samples  
Sometimes they are angular  
Sometimes round  
  
No bedding  
Wpt 279 105/62  
very stylized.  
yellow-green color  
very highly weathered; med. grain size,  
w/ lots of vugs; spars;  
no bedding  
irregular lamination in vt grnsh.  
low relief but larger at top  
vf. grnsh.; finely laminated  
strms more domal at bottom  
become intercorr. + it's open + small  
massive micrite  
filled in by more planar fine laminae  
v. fine, finely laminated red  
vt. grnsh. domal strms  
yellow pale micrite cap  
low strms at very top (more planar)  
steely silification; finely bim.  
fine grnsh., w/ small ripples  
fine visible grnsh.; 2 different  
strms long wavelength and small  
dunes (photos) finely laminated  
Wpt. 278 (photo)  
vf. grnshores; rippled finely lamin.  
not pink in color  
med.  
laminae in low domal strms almost  
Vf. Banded siltstr. at base; massive  
Irreg. laminae at top  
heavily silicified possibly brecciated  
unweathered  
\* finely lamin. low domal strms; still deep  
into concav. fine grnsh. pink  
irregular strms; irregular lam. deep  
fine grnshore possibly ooids pink  
heavily silicified base med.  
Capped by steep sided domal strms.  
med. laminations; some small strms  
deep pinky vt. grnshore  
Some Silification  
\* laterally these strms are concav.  
② (photos)



S

Wpt. 281  
heavily! silicified irregular  
coarse  
laminite  
V.F. grained

shool or clots (photo)  
heavily of v.f. grainstone clasts,  
silicified locally looks like  
bright yellow v.f. grainstone  
oolithic (not silicified; bedded  
heavily silicified; v.f. grainstone  
finely laminated at base - smaller  
domal stroms ... into medi.  
lamin. domal stroms  
above (photo)

Some lenses of v.f. non-oolitic grainstone  
wavy bedded x-bedded ooid grainstone  
Silicified f-med ooids

massive, v.f. grainstone; still small  
brown spots (like wls)  
pale pink; v.f. grain. thin bedded  
domal; flecks of black in it  
completely silicified bed

small domal stroms (photo),  
med. laminae still thin bedded

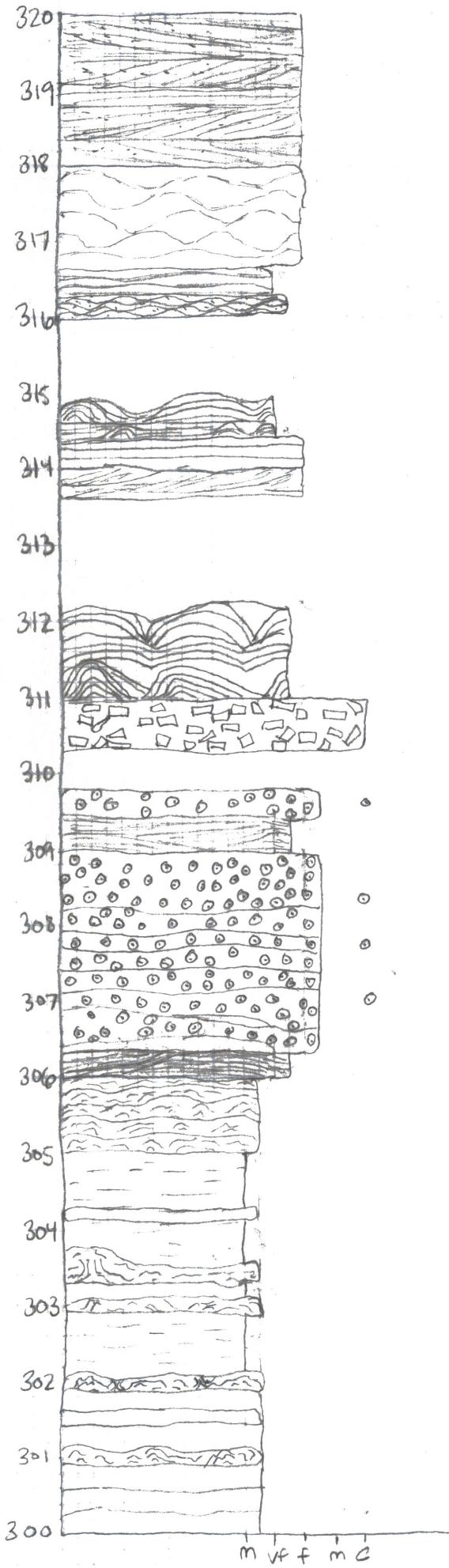
pink mid to v. fine grainstone  
massive; thinly bedded

pale pink mudstone w/ some coarse  
intra-laminae  
heavily silicified irregular laminitic  
pale pink mudstone w/ small intra-  
vugs; thinly bedded; massive

red fine grainstone weathering fissile  
heavily silicified top bed  
some coarse laminitic; greenish-  
yellow

looks to be med. grainstone org.

continue heavily recrystallized,  
massive; vuggy, spar filled



320.0

319.3

317.0

316.4

S/314.8

314 t.s.

312

310.6

309.0

308.5

307.5

306.5

306.1

305.4

304.2

303.0

302 (comp 303)

301

S/300.7

300.3

Dunham

120/36 wpt 282

Carbonate converted; red qtz  
sandstone; x-bedded  
trough.

Lumpy bedding f. carbonate  
granstone (may be some  
qtz sand?)  
thin bedded; med. lamin. ft. bases  
vt. granular  
red; layer bedded fine qtz.  
8th

med. lamin. v. thin bedded  
red + yellow small to larger stroms  
thin bedded fine granstone  
with open spheres that  
have a microtic lining  
no footballs though.  
x-bedded w/ qtz

Upper stroms just elongate  
lower stroms are both elong. and  
off center

med. lamin. vt-f granular.  
huge intraclast consl.  
thinly bedded vt. granular  
x-bedded; thinly bedded granular

where the oolite is unsilicified  
on top it has been altered  
more - facets of red + yellow

Lenses of vt. granular  
heavily silicified lumpy bedding  
f. oolite

fined. lambr. vt. granular;  
x-bedded. w/ spherules

Lumpy; thin bedding; meg.  
laminar

Fissile weathering; pale pink  
m-to-vt. grnd

Slightly thicker bed  
(photo)

more meg. laminar  
fissile weathering m-to-vt. red

irregular laminites? or fine-scale  
soft sed features 303-310

Heavily silicified bed

Irregular laminites red. lam.

return to pale pink m-to-vt.  
again looks to have something  
brown int. massive, med. bed.

340

339

338

337

336

335

334

333

332

331

330

S

329

328



327

326

325

324

323

322

321

320

- 324.7  
324.3  
324.1  
324.0  
324.0  
323.8  
323.6  
323.5  
323.3 pat. Ash  
323.0  
322.0  
321.3  
321.2  
320.0

Samples

Dunham

Deep purple + yellow - Doesn't look laterally cont.  
Basal Haima (ongl.) ??

coarse intraclast conglomerate  
med. grained qtz sand 324.3  
vpt 288 ten a ft. bed of dishes  
thin bed of fine disk shaped things  
capped by fine qtz sand  
composits air irregular laminae  
look like flattened dishes 20 cm to top ten  
outline white mudstone weathering friable  
vt. grn slate cap  
massive f. granular still deep red  
becomes thick bedded  
appears to be an edgewise cong.  
of lumpy muds.  
loose qtz - lacy Vuggy texture  
sim. to ST 4

massive carbonate cemented f.  
qtz sand