

UNITED STATES
DEPARTMENT OF THE INTERIOR

—
GEOLOGICAL SURVEY

—
9-138

V.

H. S. LADD

6 5/11 2017



Note - $2\frac{1}{2}^{\circ}$ Sec. cut off p 20 - same road T.N
 pp. 0-8 corr.
 9 - 14 True N.
 16 - " "

1941

Revised 7/31/42

Index
 Bushhorn Mt. (Hewitt)

1941

Revised 7/31/40

Index

Blackhorn Mt. (Heard)	2
Spring Mine	5, 7
Quarry Road Hill	5
North Spring Area	7
Spring District Branch	14
Quarry Branch section	15
No. 100 Road St.	15, 17
West of Mt. - see mine	15
Section on road	15
Top of hill	17, 38, 46
Spring area	17, 20
West of Mt. - Road	17
Spring area and old Quarry to NW	21
" " " " " to SE	24
" " " " " July 30th of 1940	25
Tazewell's - Heard to SW	26
Gully of area - No. 100 Mt. - Sp. det.	26
Don't know location	27
Outcrop - No. 100 W of Heard	35
Gully of area - No. 100 Mt. - Sp. det.	37
" " " " " " "	37
Quarry - " "	39
Section of Mt. - Sp. det. on top of	41
" " " "	41
Gully of area - No. 100 Mt.	41
Old road - No. 100 Mt. - Spring Mines	44
Gully of - " " " " " " "	47
Section of Mt. - No. 100	48
" " " " " " "	50
" " " " " " "	53
" " " " " " "	53a

C.C. trail - fire tower to Bastian - - - - - 55
 Crest Round Mt. - - - - - 56
 Old Iron pits to H.C. Creek - along ridge - - - - - 59
 Gully to road from mile 5.53 on crest rd - - - - - 60
 " " " " " 4.15 " " " - - - - - 63
 " " " " " 4.5 " " " - - - - - 65
 Near old iron pits on crest - - - - - 66
 End crest trail to near Grapefield, along ridge - - - - - 67
 Wolf Creek exposures near road - - - - - 68
 Boyd washer - - - - - 69
 Area SW of Suiter - - - - - 69

(Harrison's notes)

Oct 30 Harrison Prospect, Blount Co. Va.
 There are two groups of workings on
 miles 114 at Wolf Creek (Bastian side)

(Hewitt's notes)

Oct 30

Harrison Prospect, Bond Co, Va
There are two groups of workings on
ridge NW of Wolf Creek [Bond Co, Va]

(1) Mill Creek workings - 3 miles
N of farm house $6\frac{1}{2}$ miles NE of
Ricker Gap. Mill Cr. flows SW in
a valley (on west of anticline) and
workings on SE side of valley [the
one about $\frac{1}{2}$ mi E of W. side of Ricker Gap]
2 tunnels - one of which is 150
feet long (see other sketch). Another is
NE dip for SW for 200 feet & is
wholly in wash. Within 70 feet
there are 50± trenches & shafts -
deepest is 190 ft; several are 50± feet
deep at NE end. One 100' trench is
wholly in red shale & sand (under
Druck Run)

None of these explorations yield
more than a few grains of gold. The
results are wholly insignificant prospect in
soft fine sand - quality is small part
of gold.

M. L. Harrison, Prop.

M. L. Harrison Trust, Harrison Co,
Wrightsville, Va

Shannon property Mill Cr.



50' = 1/100"



Transition 5 miles S Mill Cr. - S52E,
150' - horizontal entire distance at
face bedding of fine sandstone above
well - N75E, dip 70 SE

mm. oxide largely in cross fracture
but in small part on bedding -
striations largely 1-4" wide - no solution
- mm. in center of st. $\frac{1}{2}$ to outside

2) Buckhorn NW. prospects (Hewitt)
3 1/2 miles NE of Mill Cr. on saddle.
Tract about 1500 x 500 has been
prospected by numerous side hill
struckes and 9 four -

2 at SW end 62' x 45' ±

2 at NE end 45' each

Explorations show rather uniform
impregnation of soft sand by Mn.
Oxide along fracture in large
part but in lower part parallel
to bedding which is obscure. There
are no solid pure masses of
oxide as at Flat Top. they only
seem to impregnate pore space.

On the ridge near SW end a
zone of chert lies higher than the
Limestone - it is probably

The same layer of chert shown
at Flat Top over the sand

No analyses of samples yet!
Tests by George Stubble indicate
that 47% Mn concentration
can be floated -

Apr 1
1941

Tues

To George Moore with Roy Moore
 Museum Chief, Manning Eng + Mr. Mosier
 to examine new excavations, drill logs over
 Moon & Glenn were put down 26 holes to
 max depth of 100' but struck on hard flint
 (some of shaley material in some deeper holes
 may be related to clay pit material
 below is in most all holes, may have
 had a similar origin ~~to~~. Found very
 little Mn - some at NE end
 of 25' hole in [good manganese
 - 10% or better] - [some have Mn with
 ore of iron. Bore in [good Mn ore
 - may run to it or more before
 work is finished. More than other well
 under contract - but a sample taken
 - some Mn ore in [good Mn ore] of
 this will be used in [good Mn ore] [good Mn ore]
 [these things may be related to [good Mn ore]]
 - can get a sample [good Mn ore]

Apr 12 Fri

To [good Mn ore] of [good Mn ore] the opposite
 side of [good Mn ore] - [good Mn ore] on it
 had [good Mn ore]

Long [good Mn ore]	Tony	N 90 E
	B. [good Mn ore]	N 5 W
	L. [good Mn ore]	N 35 W

2400' = 27.75 - Xing of descent at golden clearing

2485 - on road with some sand - heavy
clay floor - on the side of road - more
detritus than on map [later - map OK]

2520 at pt ^{S13W} ~~S34W~~ of gully with - 25
block - contact with Den. in the high
in depth

2570 - HG + Den floor - gully with ^{N74E} ~~N74E~~

2620 on creek - Den floor to here
at least

2740 - cluster floor only

2800 - " ^{N76E} N73E, 155 - on side of gully

2880 - cl + D₁ floor (alt) - to E floor

that by going with strong stream - down
open cluster - no more at 2640
(lowest base but N 2665) on down - ^{up down}

2660 cl. on floor - in

up to 2780 - over D₁ floor - some part
crops creek of sharp ridge

$$\begin{array}{r}
 2340 \\
 2380 \\
 \hline
 2460
 \end{array}$$

- down creek to bank to Perry's place
 (not - after bank) - at 2000 on R & L
 - at bank gully
 - down creek to Perry's place

- down creek to east to Jerry's
well - left bank - at 2500 or 1000 ± 200
in P. bank gully

- 2500 - Jerry's Creek Cr - mt
gully

2500 ft (around Jerry's well to 2400)

- Jerry's well is around Jerry's well
at mt right (top) but - up in creek to
NW + some lower, then higher - just
up to 2500 - 2000 - but still below
NW - then to lower Jerry's well

Apr 15

Fair

Note - Toad weather more in the
when only predicted of 100° - even then
fully illuminated (sunny) day to avoid
from 10-11-12 in the afternoon
day from 10-11-12 in the afternoon
further to day in afternoon
in lower D. - afternoon
nothing at all - what's the point?

Apr 16

W

Lowest water, 1000 ft, was 1000 ft
above the 1000 ft. Total depth was 4000'
(1-1-2 - 1000 ft, 2000 ft) + 1-2 - 1000 ft W
- then in E part of mt - 2000 -
+ 2000 - low pt in river

Chert - 1. on top

{ Upper zone mass ss. with some
 siltstone & fossils incl. Aspidoceras
 Zone of slabby ss. - soft, well
 bedded (x-bedded) - weathering to
 mottled soft reddish ss.
 [^{thin} mottled greenish-gray & pink waxy
 clay pebbles ^{in some}
 benches] -
 Zone of mottled red-yellow sandy
 clay & silt-
 Top { lim. clay
 ls

See NW corner 3 benches - with
some yellow-green clay below D6.

* ~~Micro were down in the ... with some ...
to the ...~~

SWEET SPRINGS

Apr 15. Fri

Exposed part of the lower Alligator river
has a lot of beds - some small, some - like
like upper part of middle of Knox - Brant
- then a spongy cherty layer about
10' or so thick - that contained some
fossils

- Then a layer of soft shale, not fossiliferous
much, but some thin layers - good
or sand or full of small shells

- Below this is a layer of sand, probably
this was at Sweet Springs in 1840

112a
The top of the sand is a little
fossiliferous - some of the fossils I have
seen here - some are small, some are
larger - see spec - section of
the sand is about 50' or so thick
and is a part of the "Sweet Springs" group

Top of sand has some small shells

History Sweet Springs from 1840 to 1850

- Saw the first one in 1840
- with Ray - 1840 contact

... ..

Check first
... ..
... ..
... ..
... ..

... ..
... ..
... ..

In
... ..
... ..
... ..
... ..

... ..
... ..
... ..

Just Edge across
0.0 - Area 2 [edge of ...]

0.2 long to, - the ... ?

1.5 Mart ...

2.1 + " " ?

2.5 - ... - good for
= ...

2.85 - Juniper - good below crest of ...
[... of Meyer ...]

... - ... of the ...
...
...
...
...
...

...
25-30' ... - fault?

Gay Mills Elev. 31' (+7' 2" NS)
 1/2 mile in Clinton

205' at 50° = 120' - Clinton -
 - then ferry over (Oriskany?) - entire
 section overturned - so called Devon
 maybe Clinton - green at first
 beyond ferry is

Lower Devon to Gay Mills

Miles	Time	Notes
0	2220	
0.2	2290	Dip <u>N60E, 80S</u>
0.4		" very gently here
0.6	2430	" <u>N70E, 80S, Saturated</u>
0.8	2450	" some creek
1.1	2610	" " "
1.5	1011	to E
1.4		" " Dip
2.0		" " "
2.05		Dip <u>N40E, 65E</u> - some " above some down from May <u>N40E, 65E</u> latter morning

2.2 2850' N55E, 66 SE - Clinton ss.
 on pt beyond 256. - heavy gypsiferous
 up to 15" thick.

2.65 2980 N45E, 45SE - heavy Clinton

2.9 3040 Surtel look to R.

3.05 N35E, 40SE - good Clinton

3.2 3150 N35E, 12 N.W. - " " - "

3.45 N60W, 20SW - Med Clinton ss +
 green sh.

3.55 N77E, 40SE

3.7 sh sh.

3.95 old rd N, ig

4.2 turn W, along Mt.

4.3 rd to R

4.5 ³⁰⁰⁰ top of mt = rd to left & R. - Clinton

4.55 Rd to left

4.7 3660 N70E, 43E - Clinton ss with
 thin oval gypsiferous in the 5"
 1 foot thick

4.76 Sample - 17

5.75 Turn 4 - Manti 5A

5.9 " L

6.09 " R

150
200
50

6.65 2800 N85W 6S gray shale - thin
- on hill 20'

- dip towards down stream

6.82 Spring - "S" - 6' high, 5' wide
- water level 10'

Basin - 10' high - 2' wide - 1' deep
- in hole - 1' wide - 1' deep

- in hole - 1' wide - 1' deep

- in hole - 1' wide - 1' deep

8.25 Highway

Apr 21, 1955

Gully on hill near top of descent
Stn 2320 - 1' high - 1' wide - 1' deep

2270 - N70W 1' high - 1' wide - 1' deep

2210 - Or. cl. band in Rd. - correct Cl. - cl.
Boundary on map

Wally Kean, Kiba - approx St. to field - site
2300' - Dr. core hole - interval area
L.S. on floor - 2270' at center
contact - 80' St. (hand level to 70' only)

Up stream to Bluffville, some - water
filled with water, some - very large
- lot of material - floor of Bluffville
with some - floor - floor with
- shown - Dr. interval 5' to 10'
Bluffville - reverse fault - Bluffville
0.45 mi beyond site in old creek valley

Returned to Bluffville via CCC Rd
over Wolf Cr. Mt. - Mt. Byh
Have gaps at 0.0 - at Stange Fe Mine
at 3.88 - on crest - Dr. well for
(block + ? covered stream) - crest of
Mt. off-crest?

April 22 Tues. Horsham "Prospect"

Examined center of S hollow on
Mr S. V. Mead's property - hollow
runs N 45 E about - some exp. in
lower pt - chamber above - remains
of Carboniferous limestone have been
excavated on property of John Grayson
at head of gully. - No more in section
- Mr. Mead's claim shows some
gullies to N 45 E but none of any kind
has been found in either, so most of
central gully has been N 55 E, 45 E
- In a magnetic etc. - suggests
a faulting near head of gully -
gully has a table top of 114
2120' at head of gully

N 55 W, 12 2 W - at base gully - 1720
Trace? delonch - low limestone under
RR fill - Taney Hill 114 -
gully to N 45 E to Thompson's Crack

Only after the station is gully observed
is at mile 421 (from Norfolk in
Cland. Valley Div. of N. W. V. (mile 420
near Horsham Station) - in gully just
one west of road tunnel under road

Apr. 25 ~ Friday

Are all massive bitum. ... are of two types - one is normal ...
... in form of nodules that
are stained dark but contain very
little Mn. Most of Mn. - These nodules
appear to be in very white - nodules -
while one light all weight

113

as before state of the same nodules are
present in abundance (see sample)
but there is also some good ore in Ob-
some like like replacement of Mn

Preparations of Bogal transfer, ...
Sinter, ...; clay that is ...
may have been ... in ...
after becoming clay - or (acc. store) white

Apr. 26

- Sat
To ... near edge of ...
BY 2601 - 27.96 N55E 28SE - ...
Mark - 8.1 ... from ...

2305 ...
... N75E 45NW

2470 ...

2675 - ... 15 ...

2790 - *Strophomena* fossils near & around 2800

2815 - ^{N78E}~~N75E~~ 2790 - *Strophomena* fossils in place -
quite common

2870 - *Strophomena* outcrop to here

3180 - " " " " " "

3045 Red Clinton ^{N133E}~~N130E~~ 2745
- 5' below top of fault.

Down hallway to 90 - good exp bed, in creek

2985 Clinton ^{N43E}~~N40E~~ 2641 the Clinton
beds are exposed in road - but here is
quite a bit of *Strophomena* to be referred to Clinton
rather than *Strophomena*

2915 *Strophomena* in place - *Strophomena* - *Strophomena*
beds in place ^{N63E}~~N60E~~ 2540
Clinton

114

2755 *Strophomena* in place - *Strophomena* - *Strophomena*
Clinton - in place 10' above - the bed
- very probably *Strophomena* - *Strophomena* fossils
- *Strophomena* fossils - *Strophomena* fossils
- layer of *Strophomena* with *Strophomena* (1)
in creek bed - see spec.

115

2600 - *Strophomena* in place

7069 - from above on L
~~N65E~~ N33W - 150' at creek junction

April 28 Mon

M. J. Brent property - SE side of Hwy 100 NW
Manganiferous sh. with mud cracks
29-1 - several pits - some green sh.
This may be the last pit in sh. in top
of bluffs as lake marsh like bluffs

116

N78E
N75 - 16 N - bluffs - red with sandstone
3245' from creek - some bluffs
are visible of red pit.

It is reported that some iron ore
on Redgate place some E of
Brents land - seen by Klein

117

Coll. sh. at red bluffs below - little E
of present location above - sandstone
quartz - & large boulders etc.

In pit above found some bluffs
dull to white sh. N78E 32 S - 3740'
N33E

2680 - Dr. - heavy iron ore - ~~heavy~~ chert
seen here & just below - some pit

now to get in Ton - stand

- 2620 + above Don - in place - reg
dip + strike \pm - Sbc. heavy flat in cl
2620

- 2310 - French house at rd - ca. 25 mi
rd fork - (Holly Brook, Stamps)

- 2060 Rd. fork - merged with W. side
Creek bridge on south gap

- 242° W Dec. set off

cross creek in rd 309 2330 5 ft - near
edge Centre Garden stand

BM located nearly 3/4 mi W of bridge, flat - 544 7
in 7.6' from Holcomb turn

Wolf is 1/2 way from base - bridge to Holcomb

- 0.0 Don 110E, 75 - fair w/ in rd - rd + lower
level - like so occur in several places
Don here

- 0.06 - low rd. above H - bridge rd -
rd 1040 - road at Don - flat clay valley

- 0.55 cross gap over Trace - Dir. in left
about 125' above rd 1140E 20SE - north

3-1-2
2670
393

3800
3170
220
20
3800

20
30
50

3600
170
3430

3000
200
2800

3800
2900
900

2670
3120
660

3900

-0.75 Feb 2
-1.0 Cross Section. Salt Br. - No. 2 Salt Br.
-4.0 Feb 2 on top of 2800 salt br. No. 2
exp. and on heavy. Section 4000

2700

60

3690
232
66

380
200
180

31214

- 0.75 P.S. to L
- 1.0 base Anderson field to - 2.16 to R.
- Up for the night to $\frac{2800}{2800}$ but see some
upper level in heavy shaly flint
 $\frac{270}{2700}$ - Large mass of sh. in a hole -
heavy iron flint just below ($\frac{2725}{2705}$ shaly)
- removed checked - at 314 = 35' to left

Apr. 29 - Tuesday

May 20 2 hours 39.57 at low sea tower 5:15 AM
Position time 37.58
0 3600 12.55 2600 at 9:45 upper end CCC level to
70 635 11.25 Position
1160 357 11.25 3527
1285 3520 1.10 3475
11' shaly soil in front of house some
14' fine, small, shaly soil heavy shaly probably
at center - flat in ground - pale
pink up there 15-15'

Page = 2.71

→ 3517 NS6E, 7N
3475 NS10W, 7N pink + yellowed hard ss -
flint - in layers 6" or less 14-15'
3562 11.30
3561 at 9:15' shaly soil in front of house -
large mass med gr. ss - light - with small
pale shaly - thin probably clastic (called
shaly in loc. notes) - 15' shaly floor

3200
27.7

2.03

remains single & large, lower to 200 - gully with
now fairly steep

1852 3295' 2PM

3282 11:00
~~3195~~ - alcovs of *Clavata* some waterfalls

under fringe of slope, lower + 100 - gully with
now fairly steep

1952 3295' 2 PM

3292 11:00
~~3195~~ - outcrop of Clinch, same waterfalls
- some accumulation below - base
with arthropods scattered at top of fall
N62E, 10 N - 15' Clinch exp - some
layers are quartz + quartzite

3252 11:15
~~3165~~ - dip up to 15' - Clinch

3147 11:30
~~3105~~ - " " " 20 N - N65E strike - Clinch
white quartz

3052 11:30
2970 - gully still aligned with Clinch - with
some lenticles red Clinton, part of
angle to right in dip slope of
26 degrees on Clinch - some of them
exposed in 60' above stream - good
but quartzite on in heavy sandstone
+ x-bedded layers up to 3' or so thick
probably the great mass has come
down from above - see no scratches
off with very well.

2200 3025' 2:20

117a

3007 1:50
~~2905~~ - top of Juniata? red + green ss + sh - in
creek bottom N70E, 29 N - see
south - see flat bedded
N63E 29 N

P D.A

3562 N42E

3567

185

4250 40 ft. ... early ...

{ 3.15 - 2305 - east Camp Pt
= 2320 Food

1.15 - 2300
2.15 - 2315
3.15 - 2320

7

2802 2400
2770 - N70E 4318 - heavy white quartzite with
angular ... small ...
silurian ...
form dips slopes ...
climb but probably ...

2802 2:50

2770 - N70E, 43W - heavy white quartz with
exposed on creek beds & above
situation here side on R when it
forms dip slopes ~~Red like~~
climb but probably in ~~direction~~
- like 5" track + line - mt. a

2391 2850 2:35

2712 perfect dip slope here
2680 - same dip slope N65E, 43W
This is land with good base of
Arthropycus 2:30

2590 - Red center float in standard
no crops in stream in standard

2402
2480 Don apparently in place on R bank -
altitude obscure

x

2954 2540 3:10

2227
2220 Dip on bank above standard R of road
of way N55E, 25SE about 5' above
W of rd 3:45

3562 2300 3:25

Dip

in

2442 4:00
2250 on rd at car. (From road 2280)
Fuel 11 AM to camp 2180
12 " " 2200
1 " " 2220
2 " " 2240
3 " " 2260
4 " " 2280

(BM close by at same level 2242)

Apr 30

Wed. *at tower*

First Tower - elev. code at 2920 = 26.38 H ^{18.45}
Trail E. side, from SE to hunting camp, creek
Clinton forest label trail to head of gully

-3600 - springs, some - good flow

-3550 - large mass egeratic fossils what is -
± Φ but probably not in place - Clinton

-3370 (7:30) gradient steepen ahead - large mass
what is Clinton standard but what appears to
be in place

-3260 - first trail on from left + same volume
as stream I am following

¹⁰²⁰
-3090 - gully closed with Clinton - outcrop high in L
valley wall - 3160 N5E 28E - not Clinton
se with purple shaly partings at L base
characteristic faceted markings on bedding planes

-2925 - small trail on from left - heavy basal gravel
on top of clay base - also at top of Clinton?

~~2850~~ ²⁸⁴⁰
-2850 (10:30) in road. rough filled gully - but on AC
in Dan forest

~~2630~~ ²⁶³⁰
-2630 *(not plotted)*
Clinton as N75E 25S - upper of
- heavy 1' bed on + some of ss. (cf
smaller layers on opp. side of (p. 18)

2820 (11 AM) N 70 E, 23 S - good exp
Clinton in creek - top of Clinton
appear to be mainly composed
of fossils on this side - map
this eg. upper member?

2730
2750 out Clinton ss in creek bed
N 75 E, 19 S

2700
2720 greenish white quartzitic ss - Clinton
N 5 E, 22 S

2635
2660 Clinton in creek with iron + small amt Mn
N 50 E, 30 SE - mineral in nodular masses

2595
2635 in R bank at 2655 are heavy sh blocks

2525
2575 sh in creek bed - some more sh nodules
N 20 E, 56 E - appears to be sh - but not sure

2510
2560 - gully open with a gradient towards

- in gully after long stretch along state with
sh - take out at long L bank -
at ~~2475~~ ²⁴¹⁵ D₅₀ floor

2295
~~2350~~ - 12:15 PM - edge open field - NW corner
low creek to NE of road - 2 fossils - see map
map -

2250

~~2325~~ - on creek near RR line - D.S.
N65E, 30SE

2245

~~2325~~ - rd on Hunting Creek (Fochs 2344) head
Fochs Run

- 10 - 2280
- 11 - 2300
- 12 - 2340

hilly, trending SE - starting on rd .6 SW
of Mt. Tower on Red Clinton

- 3795 (Fochs = 3800) -
- 3700 top ridge
- 3680 gradient steepens ahead
- 3530 large mass red Clinton to flat
may not be complete but mass not
complete - dip probably 5° off mt
- 3230 Red Clinton at stream level - 1st top
N50E, SE (stream off due to slope)
- 3225 - on dip slope on red Clinton or
N50E 20 SE -
- 3080 - still on dip slope on Clinton
- 3060 - good sized tree from L

3025 Clinton 185E, 19S - red ss with
some very large greenish brown
spots below here

2570 ^{2.30} N55E, 20SE - typical red ss of
Clinton overlain by thin light
yellowish buff ss, showing ripple
marks

2850 ^{2.4} hard yellow + pink ss - dips up
to 25° S. 2000

2770 Clinton red ss. 25SE

2760 2140 - hard white quartzite -
beds 5-10' thick. I think it's
Keuper?

2750 Clinton - same hor as last - fly to
N70E, 2 1/2 - 49' above base. 20'
in diameter with bedding vertical with
in Clinton

2650 Blue flint - Clinton, still in contact

2575 ^{3.30} dk. cherty N60E, 30SE, typ. 1th
10' from top - 15' up

2470 Blue flint - Dips in N. 20° E

2450 N80E 100 Dbl on L bank - 1st

2470 Hunting Camp Cr

2450 - Rd

End

2 2450

3 2480

4 2500

May 3 Saturday

6.5 Taguadi Rd, near Hakentli

0.35 Dbl N100E 30N

0.75 Dbl N65W 45N

0.95 Under trees, fine

1.25 Dbl N70E 50N

1.75 Dbl " - L. bank to N. of "

2.00 Dbl " " " "

2.35 Dbl N60E 31SE

2.40 Dbl N35E 28SE

2.50 Dbl N18E 9W

2.68 cross 1. mile north

2.70 Ab W65E, 44

3.05 Ab folded

3.15 Ab N45E, 28

3.30 entrance Camp Point

3.35 Ab N45E 50 SE - 1104 to the top of the hill

3.50 cross 1. mile north

3.57 top of the hill

4.70 Ab N65W, 52 SW

3.50 Ab folded, N60E

4.05 cross 2.5 mile north

4.4 " " " "

4.45 Ab N45E, 52 SE along the bed in the bank. Water is low

4.50 Ab N45E, 70

4.85 Ab folded

5.35 Ab N72E, 71 SE

4.50 ~~4.50~~ E-W, 145 variable

5.50 " " 205

5.85 225 - var.

6.05 rd to rd

6.25 rd to rd

6.45 rd to rd

7.00 rd to rd

7.09 " rd to rd

7.45 - rd to rd on rd in front of church

7.50 rd to rd

7.75 rd to rd on rd to rd

7.87 - rd to rd 2330

8.16 rd to rd

8.25 rd to rd N60E, 45 SE - rd

8.55 rd to rd N73E 40.5

8.72 rd to rd - rd to rd 2441.

276

195

13

276
195
13
1674

276

138

To NE base of Rd. Mt.

2475' on rd. E of base of Mt. King - 359

2430 Base on rd. - 540' of glacial t. base
direction, N85W, 23N

N75E, 40W - top of mt. ? Asps. ss
along Highway 21 - on 209 rd - 1400' on rd

~~135~~
~~70~~

To NE corner of Rd. Mt.

2455 on rd. E. of house from King - 314

2455 Same as RR cut - 530 ft. of gully above 1. base
 creek, N85W, 23N

— N75E, 41N - top of DB with ? corals
 540 ft. of horizontal DB - on RR cut - 140 50 ft

2450 - N82W, 15N - DB. 570W Hook 24 on RR

— N77W, 15N DB - 570W of church

— N60W, 31NE - DB with separate corals -
 about 100 ft above 570W of Hook Ch

— N60W, 27E - 2 corals (small) near 570W
 - small gully near - all DB.

2441 Don N82W, 15NE - on a gully - 570W
 near 270W of Hook - 4110 ft

2465 Don N30W, 15NE - 570W of Hook Ch

Back gully that people looked at - down gully
 & look above creek

N25W, 15NE - 570W of Hook Ch - good cut

2410 W. side down of on 2400 - 314

May 5 - Monday

Leaves 2150' Lady B.M. - Boulder
(H = 27.91) - 9:45 AM

arrive at $\frac{1}{2}$ mi 2.93 ^{original} ~~from~~ camp, just
sandy soil below mine, elev 3060 (± 3050 for
instrument) - 10:40 - start out on Clinton

3030 N65E, 14SE - gully 10:30

2980 almost continuous dip slope on hard
Clinton to here. am just below Boyde
Dr. pits - dips & strata unchanged

2940 am still on good dip slope on Clinton - hard
yellowish, what might be marked as
Boyd Quarry N55E - now still N65E, 10SE
These beds may mark top of Clinton in
which case pits are on basal strata with
- small vertical interval for LS
- lower strata in place in pits is 3015
- Then a vertical interval of soft rock
- then 75' for Tomdowry - then strata
- beds - just here about N60E + dip
(vertical) 30 to NW - somewhat thin
into the last dip may be due to slump
- though it is not - think so

2900 - still on dip slope

2835 $\frac{1}{2}$ - getting slightly lower - Clinton
- vertical interval 30 to NW - vertical interval 30 to NW - vertical interval 30 to NW

no. N65E, 14SE - thin heavy layers are
gibber & exceed 1' in diameter 11:30

2770 creek in old trail - still Clinton

2740 big exposure thin bedded Clinton here
N75E, 19SE

2660 - big gully from R - skirted out the
interior here but Clinton, what is
rock - a marked change in gradient
of gully to here

2650 Dr. ss. ^{under} with abundant rounded stones
appear in large holes in creek bed

2645 Don Boulder in stream - none

2510 good exposure Don but apparently in
place at - N75E ±, 20 ± S

* 2510 68p below but in R bank. 15' or more
and not an exposure of fine grained
with some + some pebbles, some pebbles
rounded - not from higher level

2440 460p rd in face of it is state of
no pebbles in place

2420 - 720 - Dr. - here probably in place
here - N65E, 34E

2390 - 834 p (2380' E. of) - 12:40

Anderson W. of Junction

2325 Don N40 E, 22 SE - as + clarity on.

Pace Dir. Dist.

- | | | | |
|---|-----|----------------------|---|
| 1 | 0 | S60 E | |
| 2 | 20 | S15 E | |
| 3 | 41 | " | Abt level |
| 4 | 50 | S40 E | |
| 5 | 80 | S20 E | - to saw hole full (about 100') |
| 6 | 210 | Hunt Camp in at well | Dir <u>E-10, 200</u>
at ci. level - 2270 |

up to RR bed at pt 1/2 mile W of Junction
and - RR bed apparently on left but no
good map - slope of heavy Don flat between
RR bed + marking - ~~level~~ on Don - ~~see~~
RR bed 2370

2365 Don N25 E, 20 S in gully above
RR bed 5700 of tower

2265' W ad. 1.22 mi N of RR bed full - really
1/2 pt where Power line crosses

$$\begin{array}{r}
 292 \\
 276 \\
 \hline
 175
 \end{array}$$

$$\begin{array}{r}
 206 \\
 893 \\
 \hline
 1099
 \end{array}$$

$$\begin{array}{r}
 276 \\
 100 \\
 \hline
 376
 \end{array}$$

$$\begin{array}{r}
 11020 \\
 276 \\
 \hline
 386
 \end{array}$$

$$\begin{array}{r}
 276 \\
 365 \\
 \hline
 641
 \end{array}$$

$$\begin{array}{r}
 1380 \\
 136 \\
 \hline
 1516
 \end{array}$$

$$\begin{array}{r}
 166 \\
 276 \\
 \hline
 442
 \end{array}$$

- 2285 - Db^c N40W, 20 NE along RR cut
 - noticeable crop
 - 200 p. to W and a long flat

275 p. am SSE of slab house on Tanager

- 2285 - D6° N40W, 20 NE along RR bed
- noticeable crop
- 200 p to W are in heavy D6a float

215 p. am SSE of slab down on Tanager
net

2300 - N75E 93N D6a along RR bed
- 100 p. am with D6a float + patch
see N170W

2350 D6a N80W 23 N - with folding
along RR bed this line 5' above
W of cr - on 300 p + take bear
- also mentioned what house - line
N45E

2330 D6a N75E 90N on ridge at 15' above
at camp Roland 7:30 - 14' to 15' p. am
- 100 p. am from gully B

D6a E-W, vert in ridge at camp
Roland bridge

8 p to S corner of D6a hole line
N75E, 40± N

10 - what house
13 - slab house
195 - brown house

May 6 - Tue

Overalls set at Benton Lodge
2180 = 27.55 h, 7:50 AM

Returned to gully of yesterday AM: 2,93-306 m
(= 3,440 feet) 8:20 AM

3130 Benton on N68E, 12SE - up dip slope
= the point

3150 Benton on west side 8:50 - similar
slope to about 3170

3320 - forming into flat becomes abundant
on the level - on outcrop between 3320 &
3370 - 8:50

3370 Small piece white chert

3395 No rock with large mass above wall - no
Don seen

3440 Top + topstone were in wall - searched
Don seen - No. All found the level +
evidently some crest here go N45E to
high pt

3490 The rock pt capped with heavy masses of
but can see ^{top} ledge - but 5' higher
No trace in trail in contact with Don - note
7:15

590
 320

 270
 215

 1250
 520

 628.0

Trans. for ...

0 S30W 3490 Top ... (3-95)

105 SSE 3430

130 S15W

Traces from ridge pt. to East mine

0 S30W 3490 Top Mt. (top of 3-95)

100 SSE 3430

130 S15W

75 ~~same~~ 3420 - bottom of saddle

540 S60W 3470 - on 2nd St hill - top of hill
all at 3475 (20' below level) show
no Don chert - only heavy iron forming
St. - this hill 20' lower than level
- find maybe @ here - 9:50

590 N80W 3490 - high pt. just on back end
heavy Don feet - rock - etc

3440
765 ~~same~~ ↑ Found 2 Boyd pits
→ to main workings

700 ± — 3435' lam. (Top?) clay in 2nd
Boyd pit - then pits actually
on crest of mt. - effect on crumpling
of clay?

791 ± — 3410 top lam. + cont. clay in
4th (main - when working clay still 1 foot
1040 edge East mine - ~~South~~
working

3420' - top lam. clay where Shaver was
 working in E. Men - one here occur
 in clay within 5' ± of top - clay by
 a 10' pit was put down several months
 ago - all in 'bedrock' - no ore

← 8' →



- 3420 (6th aver.) 11:15

- 3340

8:35

- 3370

9:35

} Fish area

- 3400

10:35

- 2.84 mi. SE edge pit (3.6 at dip slope) (see pg)

- 0.82 mi. ^{CDC} to L - trail 2 to R

[--- on map]

Tr. along Carter Br. - ~~1000~~ CCC Rd
Start 4.5 mi at ~~2065~~ - on Rd. Clinton
CCC Sta. 251 at 11:31 AM

3230

~~3275~~ - gully, about 100 ft wide - probably on Carter

3250

~~3295~~ - bench N45W, 16NE (bearing by 123)
Layer of gyps. - gray, - white Barren
- cracks - dry - rock

3280

~~3265~~ - N33W, 16NE / good exposure
- cracks

3180

~~3170~~ N86W, 18N - low, dry slope - in
on about 100 ft wide crack
still clear ? - lower more cl.
top of Clinton

2910

~~2970~~ N65E, 23N - apparently same as
at last

2910

~~2965~~ very fine grain - not hardly so
cracks Clinton ?

2880

~~2950~~ (100 ft or so) - cracks Clinton
- red so + greenish at N65E, 23N

2810

~~2890~~ Clinton Rd N75E, 57N - at crack
119

[2590
2760 on Creek Don - good camp N70E, 35N
5'± - 40'±]

- return to stream

2660
2770 Clinton gray quartzite m.
N75E, 40N - good place to
camp near hill of Tom & Ab

- back to Don 150' - ²⁵⁹⁰ 2700'

2590
2700 camped here on R bank
moved below level & at point
10'± above creek - 1/2 mile up
Don probably about top of firm

2510
~~2630~~ Ho. N60E 45N in creek

2420
2530 creek via old RSP road

2330
~~2460~~ - out of creek with (= 2470 500') 2330

2330
2460 at BRK 2330 (130' tall high)

Apr 7 - Wednesday
 Section of Dom-Db & Top on CCC rd.
 at point of 2 curves

Elev	Sta.	Dip	D.T	Remarks
2780	1	S66W		Dom 22E, 6E parallel very close to top for 100' in 2nd exposure
	1-2		50	- in Dom
	2	N50W		Dom N20E, 15E
	2-3		50	
	3	N67W		Dom N20E, 18E
	3-4		50	
	4	N45W		Dom N20E, 12-25
	4-5		40	
	5	N54W		Dom <u>N70E, 15E</u> base of Dom - top Db.
	5-6		30	Dr exp. for 100'
2750 [to high]	6	—		Top cluster <u>N70E, 22E</u>

3800
 600
 22800

120
 100) 22800
 10000
 12800
 12000
 800

190' = 60

Dim. ————— (tape measurement of stone)
 0-2 pebbles, ^{slightly} fine sand
 2-5.5 chert + sandy clay, iron glauconite
 5.5-10 chert + iron glauconite

Sun. (tape measurement of above)
 0-2 ^{slightly} fine, fine sand
 2-5.5 chert & sandy clay, ^{more} glass.
 5.5-6.9 local glass. ^{no}
 6.9-64 - chert

May 8

Thur
 Aneroid 2180 (H. = 27.74) - 7⁴⁵_{AM}
 At Fire Tower 3720 (= 3700 feet) 8:45
 Head N 25 W to head of creek below
 3520 - 9¹⁵ - chert ... - all chert (at base)
 3300 Clastic N46E, 26 NW, 9130 - ^{no} chert
 N45W - ^{some} ^{light} ^{gray} ^{chert} ⁱⁿ ^{it} ^(N45E)
 3250 chert N40E, 30 NW - ^{all} ^{gray} ^{chert}
 from 15' cliff
 3250 N43E, 26 NW - Local ^{of} ^{chert} ^{gully}
^{clastic?}
 3130 N45E 30 NW - hard yellowish gray, ^{the} ⁱⁿ
 dip slopes 10' 20' on S 20 E of
 brown ^{has} ^{with} ^{black} ^{pe}

3070 Same bed = N45E, 30 NW

2750 am S16E of stream lower - not in main gully
- return to former (Mash?) gully
+ SW

2885⁺ Nois above in at creek R bank
N40E 22 - some deep slope between
here + last - gully below N40W
11:19

2690 Clinton red reaches lower gully
N45E, 35 NW

2645 Lg. N 45 20 W - may be in place

2625 Clinton 2 N50E 39 W - what gully
22 good exp 11:30

2355 Dbr. N70E 49 N - on stream -

2430 head S31E ± of the stream
- no old camp - Dbr a little
beyond look of head - Dbr flat
valley on both sides - stream from here
12:00

2480 left of Dbr camp at stream
- of bank - folded - badly
crumpled - 12:15

Fach. 9:15 - 2260
10:15 - 2260
11:15 - 2270
12:15 - 2280

Rd to Zepherus 2270 (Fach same) 1:15
BM 2254/6 (=2265 measured)
at "Brown house" 15 mi to
west "

3695 (3685 Fach) - head gully
A at pt. 37 mi NE head trail
to CCC camp 1:40 (approx. L.P.M.)

3225 Clinton N15W, 9E - all Clinton feet
(small red) to base; yellow sand, etc
2:10

3180 Clinton N15W 6E, good section
2:20

3125 Clinton N10E, 12N - good section, thin
hard gray ss. Battered with carbon
flog ch. here

3080 N50E, 23N - 2' exp. white siltstone
in - Clinton? 2:45

3025 E-W, 15N good road
Clinton probably - thin bedded gray
ss - some fairly conglomeratic

2540 752W 57N Cloud 3:0 - heavy
beds - white quartz under surface
dip slope - gully very shallow

2755 Still - bench from dip of
- gully nearly horizontal - a trace
of red sandy clunch, good
exposure on plateau

2230 Hill in a gully with 4:30

2280 - Hill (= 2300 feet)

11715
1170
May 13

Tuesday
Gover
(2180 (H = 27.84) 9:30 Baseline bridge

20	0.0	Sumter Δ	[rd to ecc rd = 844, by map]
0.500	0.22	N to right (on line L)	
	0.6	turn back	
0.0	1.0	turn right	
	1.3	turn L fork (R = rd fork)	
.42	1.42	DB - 2460	<u>N70E, 225</u> - 10:10
.75	1.75	DB - 2640	<u>N75E, 245</u> - 10:20
1.0	1.8	" 2660	<u>N78E, 235</u> - 10:30
	1.9	" " "	
	2.0	" 2835	<u>N70W, 162</u> - 10:34
1.05	2.05	DB - 2880	<u>N55E, 195</u> - 10:35

11715
1170
May 13

2.05 + 70 p = Alt N65E, 14S; 13 p beyond in last yard 26
in red. dip 45° N 1/2 E 2.

2.05 + 275 p = probably same as N65E 14S - 14' d. white ss

2.55 later 30-0 N55E, 16S 11 AM - white ss

118

shale distance beyond (2.05 + 347 p.)
= white white ss with ostracodes.
= Clinton

N60 E 15 E - Clinton ss like last
with ostracodes - in place OK
2.05 + 367

2.7 Clinton 3060 N65E, 22 SE 11:45

118a 2.85 washer - coll. spec. soft pyrol? from
East Mine (by miners)

2.95 CCC Rd 3295 - 12:15

3.1 road to W mine - turn - 3355 at 12:30

3.2 Clinton N35E, 10 E, ostracodes, fossils
white thin bedded ss 3395 12:35

3.35 - fork - fork R

119

2435 - white mine - 17' well to
hard Clinton + pink + green sh
- some spec of bluish ss with ostracodes
fine dungs - well bedded, fine size
of Clinton - some low clay on well
dungs looks like Torr. Buck ss



120

3420 at 1 PM in new trench - down to
weathered pink sandy clay with
3-4' red? ostracodes - found on 2 paces

layers are traced up on 1 km. 8' track along
 with some run. - N 28 E + 15 E
 may be top part of the clay
 - appears irregular on side but
 do not think much of this in fact
 - some of the in corner
 like this - olive bench 300' E
 of pt. 3.38 mi. on rd. - bends W, 80' long
 8' deep

.95 mi below Cameron Rd to Worker
 - down gully to Surtis 3025 at 1140

- 240 p. ^{2870'} 1:50 N 25 E, 8 SE - Clinton ^{white}
- 315 p. 2:00 2810' N 25 E, 15 SE - Clinton
- 482 p. 2:10 2720 - bottom long dip slope in
 Clinton N 25 E, 15 SE - good road
- 490 p. - 2:15 2730' - on back from ls - facing
 med. gr. ss with oolite + small
 green sh just above here close to
 top of Clinton?
- 685 p. 2:45 2640 Top ls. in 2 back
 is also above N 33 W, 10 S NE
- 800 3:00 ^{2560'} " Don blocks appear in gully
- 1810 320 2575 - roadcut above Surtis Δ

1200
 1535
 Pace
 trav. =
 2.60

2360 - 2 PM } Fresh
 2360 3 PM }
 2360 3:15 }

RT 1-4 Green water
 6 Leds, HF from pt N of J. L.

May 1st - Wed

Water 2.50 (H = 27.97) Boston bridge 8:50 AM

- Elevation on road 3.65 m - N22E, SE 1.1 point
 3.65 up on road - on road 3275'

- Elevation at 3.72 m - N52E, 85E; elev. 3315

- Elevation " 3.78 m - N55E, 55E; elev. 3335
 This point where old road crosses creek

(Below bridge have shipped 2 cars of ...
 rock mostly - are truck ... ; now cutting
 settlement basin)

- Turn to road to W. 2.4 mi + Green Bridge

- At 3.9 mi. there are a number of scattered
 pebbles - transition to SE of road but all
 are badly swamped. Many blocks are largely
 Clinton but also some D. (one foot) many
 are manganese & iron & there are
 few pieces of good Mn. ore. All the ... 48

probably Clinton - with minor amounts of
fossils in chert seen.

4.00 rd. to left - see interview ahead

4.03 - rd. - rd. to left of cove road to C-2 rd - we
continue ahead 1/2 mile.

4.05 Clinton rd., 175(?) on top of
usually opened by hill top at elev 3765 at 1-25

probably Clinton - with minor amounts of
float; no chert seen.

4.19 rd. to left - in distance ahead

4.22 rd. - rd to R side road to C road - in
distance ahead 1/2 mi.

4.25 Clinton in sec 125 (? outcrop) in trench
recently opened of level layer elev 3465 at 7-15
to trench 65 long trending NW-SE exposed area
approximately to depth of 5' on surface marked
- as of red, clay - has been seen in main
trench but probably trench is between
- above Clinton in little side trench at
west end of main trench.

4.21 Clinton N 130° 10' E - ripple marked, level
white ss - elev. 3520 - 1200

4.31 Clinton N 130°, 14° E - in distance 3580 - 1200 - 1000

4.35 - linear ramp to level in sec 3585 - 1200
- in distance all way - elev 3585 - 1200 - 1000
shot

275' level in distance to level in sec 3640 - 1230 N 130° 11' 20" E

7:11 AM
3360' below well in West name Clinton, \pm \oplus - 1' from
near lower limit of workings, 1120' elev

coll. flat on here, most of which is very sandy

spent some time examining dumps of
numerous small pits & trenches scattered over
West Mine area - ^{lying nearly flat}

- 1) bedrock over entire area is upper Clinton
- 2) no Tan clay found but roughly lower
clay - occur on top Clinton
- 3) Very little iron in Clinton
- 4) most of good material are already picked
up; remainder of good ore all small,
big stuff all very sandy.
- 5) no additional exploration working any
kind qualified in this western area

Location of C&D Rd - New Rd to E. Mine

Pace	Dir.	Elev	Time	Remarks
0	N38E	3365	11:45	Clinton ^{P. 45}
150	N			Lo. road
300	N45E	3350	12:00	DB + change from old path
520	N45W			
600	N40W	3320	12:10	
628	N25W	3305	"	Old Road

at C&D Rd on Hill at

0	N15W	3370	12:20	- on large dump
60	N15E ±			
710	N	3275	12:35	Heavy clay ^{at}
825	N25E	3220		cross small rd to R. bank. ^{at} 53

Pace on this
trip = 2.62 ±

May 12 - Monday

To Tazewell Va. to visit Mr. N. A. Bowen
His property - near Nye Cor - Cor - I saw
had no work prospecting. Specimens he
showed were largely of not entirely iron. Iron
has been in the St. (see Stoe & Mueser pp
175-177) - this is estate property belonging
to Harry B. Bowen & others - and a further visit
notify me & send spec of additional prospecting
in case (Greenwood to work this place)

Visited Harmon property (Harmon prospect
of Stoe & Mueser pp 179-180) - and written me at Bowen
suggestion

117b. = sample with clay - 1/2 mile SW of house - 100m. +
Fe - shaft now down 10' + - down by cut of Mr
H. 20' (analyzed 29.9 at Blacksburg). In clay from
Nolichucky? Iron valley below ^{knob} see N65 E, 35 S

Also examined rd cut to NW of Harmon
117c house - in Nolichucky - N65 E, 35 NE
along road here.

No work has been done by Harmon for longer
time - cannot see or such as other of
saw. in at notes of more pits opened

250	1300		
995	3120	1200	2400 heavy and fine on mill smallly filled. (Note level at road)
1035	2000	3000	1000

along road here
 No work has been done by Harman for longer
 time - cannot see much or stone
 some what rocky

121

855	N 20 W				
795		3060	1215		most 2000 - 3000 with fossils in soil small grey full of Clinton fossils (pl. & animal)
1035	N 45 E	3040	1215		some green - some in soil - some in soil - some in soil
1216	-	3040	1215		all in some - some in soil - some in soil
1284		3010	1210		<u>N 30 E 27 NW</u> got up a purple soil - some in soil - some in soil
1313		2980	1220		<u>N 45 E 20 NW</u> fossils - some in soil - some in soil - some in soil
	This part most of Clinton - to South for Clinton - some in soil - some in soil				
1445	<u>W</u>	2910	1225		<u>N 45 E 35 N</u> - some in soil
1682					
1605	N 70 W	2855	1155		<u>N 50 E 45 NW</u> - DB fossils -
1608	W	"	"		heavy soil appear - some - some in soil - some in soil - some in soil

Clinton
 5 DB NW

1700 S85W 2791 1750 Drive back into D.V. 12400
 1800 - good road.

1763 W 2760 2000 Dip N35E, 35NW - the
 fault is here & probably here
 close to top of fm.

1760 2605 2100 Dip N55E, 35NW,
 vertical strike here & back of
 Don - check heavy
 very prominent on the rd
 - Don fault here & road

1790 2605

2051 2520 2205M same road fault - contact
 Don + SBE probably above
 pass 2000 - on 2605
 vertical strike WNW

3052 2400 2135 - rd. of house

└ = 2370 (Fork) 12130 2360
 1130 2380
 2130 2390

R I # 6/7 looking south from rd - first fault is Don,
 2nd Clinton - 3rd - west of mt (Clinton)

* checked on H. area 304 2334 BM = 2400
 Returned - mark gully - up - mainly on standard
 2765' 4' 50m N55E, 40NW Clinton of type
 + vertical strike green sh - thin
 face on main fault here - thin
 in a "boulder" (?) ridge below

276
 276

 12

246
 276

 14 + 2
 1680
 480

 662.4

185
 200
 450

 13800
 1222.00

25
 100.00

 2

2626
 135

 279

2300 ft Elev NG-E 28 in profile
 gully small lower B.H
 2330 on rd. to st. house (- 2320 Elev) + 45
 Fork 315 2330^A
 345 2330
 400 2325

2300 on ridge 1465E 2325 - 2330 bed to
 2330 on ridge to flat base (= 2320 EOL) 4:45
 Foch 3:15 2331^A
 3:45 2330
 4:15 2325

May 25

These
 San Juan Canyon 2180 (to 2246) 5 AM

1000 m to E. mm at 3:50 - 4:00 - 4:10
 at 4:10 - 4:20 at 3:50 - 4:00 - 4:10

3700 7:10 - top of first San Juan E.M. m
 3775 7:20 " " " " " "

P	D.A	Elev	Time	Remarks
0	17E	3090	7:20	San Juan Canyon hill
240	SSE	3485	9:20	Sharp drop - 100' - 150' ⁵
264	E	3435	9:35	Small Dir. flat - down into
280	SSE	3370	9:45	- down of ridge on west - hill almost entirely flat to 13 p. by mt 280 5:30 - 275+00
630	SSE	3375	10:05	Very little flat in distance mostly dir. - 100' x 100' - 200' - then are small flat mountains
710	SSE	3360	10:25	- went ahead, 11:00 am flat base looks like Denton but could find no fossils

P. 2.08

865 5755 3410 10:40 on Dlt ridge - flat
 965 N 3420 10:45 " " lot much from Dlt
 under the slope crest to
 N.W.

* Note absence of thin flat in Dlt. along iron trail
 here looks like \pm & presumably (judging from
 elev.) are underlain by impure clay B₂ got no
 minor claystone. Area - Sinter min area is
 close to standard change - i. local problem to
 concentrate area? [judging from Stamp area
 does not lie after to clay at high levels even
 when overlain by full \pm thickness of Dlt.?

1120 N15E 3380 10:55 on Dlt possibly Top
 - at 110 high on Dlt

10:50 D75W \pm 8 crest at
 3480 11:15 Dlt with large conc. sinter plate
 3510 11:15 Dlt on crest - forming + foss.
 3450 rock on trail 11:25 - crest 110-120' under

12:25 spring water 3430 also trail 35 ft =
 Top of Ton?
 1340 N10W 3430 11:40 - descent ahead
 1375 N10E 3420 11:50 - gully - deep just above
 trail here
 1547 N15E 3470 11:55 - high pt. - descent ahead
 - all Dlt floor
 1647 NE " " " " " "
 18:35 E 3500 12:05 - continued appearance of
 here?

2270
 1120

 1150
 2.5

 5750
 2300

 26750

270
 250

 13500
 540

 67510

3780
 3635

 145

2155 1.0 E 3555 12 - - several short
 on Clinton E - some
 red on top of mountain
 2270 NE 3535 12/20 pub. w. some fox
 Ab. + some gizzard
 that, probably on Clinton

3635
 45

2155 NE 3555 12 - - descent about
 on Clinton 3 - small
 just on road at 2155
 2270 NE 3535 12:30 gully on - some grass
 Ab. + some gully
 2475 E
 2785 3620 12:45 end CCC. Fin trail
 5001

Feet { 11:45 - 3550
 12:45 - 3600
 12:45 - 3620

cleared 11:45 to reach at 3780 - the
 check on top, but the there in large
 masses plus - just SE to top of hill
 = 290 - 650' ± only
 5635 to car at 2PM - only 45 min
 especially on road on Clinton here [?]

0.10 mi Clinton NEUE, 53 just west
 3635 40 + 2.40 - CCC Sta 333+50

1.7 rd down - gully of narrow lower SE
 2.3 Fin trail

3.15 CCC trail to Boston = 3805 - 220

2022

1440 3245 2:50 - comes for further on line of
 from pt - high speed gully etc - 150' ±

1760 2 - some on it - 5100' 3:05 - small
 3872' - fresh as with com. - flow

1870 3080 - 3.10 Bl. 2145
 1880 3075 Don - hill, 2145
 2700 2650 - 3.35 Don 2145 32 SE
 2765 2545 3.40 road heavy chert - the
 2394 2385 3.50 road work

2200 2145 2145
 [-60' to high] }
 240 = 2340 } 10' alarm bridge
 340 = 2355 } Foch

(12.5 E 13 E)
 - the 2145 part 2145 - 2145 - 2145
 to NW over Don - Don over 8' above road
 - the 2145 3.5 m from 2145 2145
 - in 2145 2145 2145 2145
 - 2145 2145 2145 2145

May 16 - Don
2145 2145 2145 8 AM
 Car 2145 2145 2145
 0.0 m. end 2145 2145 2145
 0.1 " 2260 - 9.00 - 2145
 0.48 " 2515 - 9.00 2145
 0.8 " end 2145

6
5.8 3
4.3 3
1.5 3

2.4	3760'	11:25	top of rise - flat ahead
2.7	3745	11:30	CCO trail to Buckhorn Lake pt (quadrant reading, 2nd of 2)
3.2	3735'	11:40	has been coming over level trail - slight descent ahead
3.4	3740	11:45	low range
3.56	3750	11:35	opp tower
"	3965	12:10	" "
3.8	3925	12:40	pink color in red
4.0	3925	12:45	climb in red
4.15	3780	"	bottom of range - and Buckhorn rd
4.33	3825	1 PM	frankle to day, pink-red. center as <u>± ⊕</u> - probably in place of
4.5	3875	1:10	old Fe pit in center - some iron (sandy)
5.03	3720	1:15	Clay <u>1850 at 65</u> , has white at of small grain size
5.12	3700	1:20	gully - red clay first heavy - along 10' also rd <u>± ⊕</u> probably 15'
5.2	3670	1:25	Red clay - like spot 3' from - N15W, 6W - 10' tall, slope 2
5.21			N85W, 5S - bottom red.
5.25			<u>dip up to 9°</u> - red clay
5.46	3620	1:55	- red clay - <u>± ⊕</u>
5.56	3585	2:00	look in red to old gully
5.62	3600	2:05	cl <u>185W 10S</u> white at

5.73
356
—
217

5.73 3620 2111 Canton 170E 55

5.86 - 3630 2120 - end of CFC 010

300 ft beyond old man pile in that direction = 17E
5' back camp 01

5.73
356
20

5.73 3520 2.10 - Tube 150E-25

5.86 3530 2:20 - end of C.C. test

Back to pt beyond old iron pit & T. line. 4.15
to next sample

1000
2.2

Point	D.A	Elev	Time	Remarks
0	S47E	3570	2:30	C.C. test on road
400	"	3685	2:45	at base of hill there
535	"	3620	2:55	at base of hill there
600	S40E	3525	3:00	at base of hill there
1075	S47E	3500	3:10	at base of hill there
1220	"	3355	3:15	at base of hill there
1800	"	3275	3:30	at base of hill there
2100	"	2925	3:35	at base of hill there
2200	S	2830	3:45	at base of hill there
2223	"			By stream forming
2270	S30W	2430	3:50	Don't start on road to - lead up to double W

2315 S40E 2880 4:24 in creek again recently
 capped from here
 2400 S - over the flat
 2470 S20W - " " "
 2556 S20E 2780 4:30 - on rim crest head
 In valley
 2824 S47E 2575 4:45 - on top slope - HC
 just beyond 2410 E?
 3125 " 2385 4:55 - edge of forest field
 3728 - 2360 4:55 Dr. in HC south
 2395 2020
 - on top of rim 500 yd from creek 2395
 at 4:45 (= Foch 2415)
 3:50 24:10 - Foch's place

May 19th Mon
 Leave 4 miles at 2355 (= 2794 E) 9:15 AM
 3910 at town at 9:40
 For town
 543 on top of Mt - head NW.

2395
 2415

Pace	D.A.	Elev	Time	Remarks
0	N20W	3500	10:00	- in draw on mt side
500	N40W	3405	10:15	- all clouds forest side of ?

156 1130W 3330' 10:40 gully at edge from road

1170 1120W 3140' 10:20 top of steep slope
- red chert layers
- upper - red chert
- floor apparently from S26E
of white house

3086'
~~1220~~ " 3030 10:40 N127E, 18NW - heavy
- probably chert?

3269'
~~1292~~ " 3015 10:45
- white chert stained
- irregularly red & brown
- top of heavy dip slope
- lower slope N40E, 24NW

3461'
~~368~~ " 2980 10:50 N55E, 24NW - same
- "

1441 N

123 3795'
~~1530~~ N15E 2880 11:00 Red chert N55E 25NW
- conglomerate, etc. also some
- white top chert

1594 N

1650 1120W 2810' 11:15
- further dip slope about

1801 1130W 2715' 11:25

1885 N65W 2665' 11:35 Mn. loc - 1 specimen bag
with boulders

1990 1150W
2040 1170W

possibly
clinch

N63E 45NW

216 W N50W 2560 11:45 Obs. of former lower
quartzite in bed from L
- 2540+

2275 N63E - Obs of first crop of quartz
- 310± to N of 2316p
my trail - on creek

2455 N30W

2675 N50W 2730 11:55 - not in cleared field
2815 N30W - is on top of hill
NE of X

3240 " X - 200 ft. below
3820 - 2310 12:15 w/d of creek - just below
rd - very close here

2315 at 12:30 on rd (= 2340) each
10:45 = 2330
11:45 = 2340

Upper Brown House = 0.0
Lower " " = 1.5
Camp Rol. Int. = 1.71

along Fair Tower 3900 / 25

Gully of NW - Rd Mt

-lv. CCC pt 4.15

0 N28W 3720' 1:10 - In CCC pt 4.15
Crest

190 N

265 N20W 3600' 1:20 - bottom of gully

885 N28W 3505' 1:35 no crops - all Clinch

2884' gully broad open

1145 " 3440' 1:50 N44E, 6NW - white

gypsiferous in layers

5' + - in bed creek

3168' 1252 " 3400' 1:55 N37E, 11NW - 85

3770' 1495 " 3270 2:15 gully steepens
probably Clinch now

3896 1540 " 3240 2:20 N47E, 13 - Clinch?
- gray gypsiferous in
streamed with reds from in
heavy beds up to 2' thick
- 12' off in R bank
from stream level

3990' 1724 " 3095 2:35 N55E, 26NW - white Clinch

1724 3095 2:45 Clinch N45E, 24NW
- white gypsiferous

4544' 1796 N35W 2990 3:00 N46E, 30NW - Clinch

1864 - 2890 3:15 white coarse bedded
- Clinch

1936 contains fragments boulder
base 63

Pack
- 2.53

4989'
 1972 " 2800 3:25 N45E 35NW - clunch
 2100 " 2740 3:30 start going up bank &
 look for clunch along stream
 - slope flattens out - red
 clunch just comes in
 from side valley - no
 Sumatra in this gully
 5465'
 2160 " 2705 3:45 Red clunch & back just
 above stream N45E 34NW
 2438 N15W down gully to R - no stream
 2750 " 2510 4:15 Down forest
 2865 N10E
 2960 N45W
 3030 N75E down to creek
 3060 N 3400 4:15 on creek - 15m flat
 3340 N85W edge cleared forest
 3650 N15W 2310 4:20 on left bank
 3750 2330 4:35 on road - 1 mi above
 2340 Foot
 1:45 2310 }
 2:45 2320 }
 3:45 2335 }



Continued on next page, read in reverse order. All. - 1
 follow suit SW. 500 ft. of land. 1000

F3	D. G.	Elev.	Time	
0	SSE	3530	1100	
29	-0-			
104	N60W			
211	S75W			
305	W			
382	N45W			
454	S60W	3460	10:50	Co. 1000 ft. up
625	"	3470	10:55	along stream bed, up 50' north - many old mills all from higher levels
752	"	3525	11:00	to 500 ft. possibly with lower - Don (not working)
825	"	3545	10:55	<u>inst. of mt.</u> - Don
116	N55W	3600	11:00	<u>inst. of mt.</u> - Don
185	N30W	3550	11:05	- 100 ft. high run 100 ft.
1215	"	3515	11:10	<u>Clarke float</u> - not found with 100
1770	"	3125	11:30	apparently still on ladder steps about 50 ft. high
2101	"	2915	11:45	
2203	N45E			
2447	N45W	2860	12:00	
2555	NE			- minor gully dipping south
2890		2750	12:15	- steeper ahead

Page 11
24

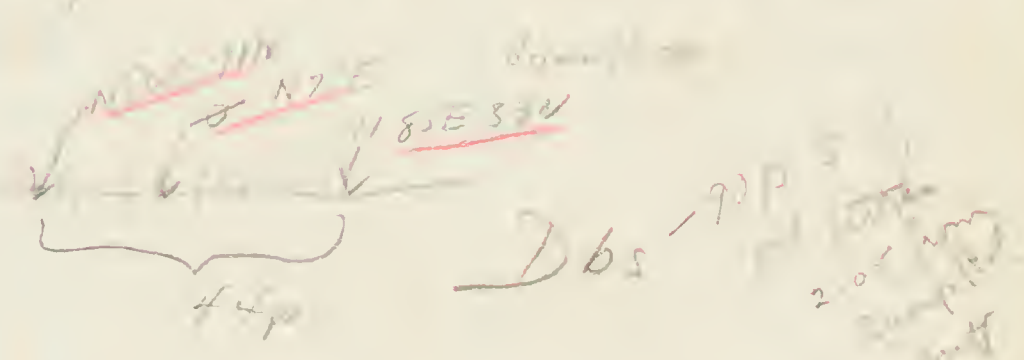
3170 N45W 258V 11:00 - no down gold Shyde
 3325 reasonable no
 iron seen

3460 W -

3520 " 3390 14:35 N65E 63 W - Abs in
 Range out

380 - 2350 12:00 W of Lake - see map
 1:05 2360 = 2375 Foot - W of pin W bridge
 10:40 2335 }
 11:20 2340 } ←
 12:12 2370 }

no more any - covered



All in Dng, N45W 258V 37W - 2084 - 2385
 - pin vertical along Range but
 12:10 = July 10th
 255p = Dbs - badly crumpled - half of the 10' at
 head in Dbs material with separation
 but the probably is along just from above

332p - Abs - still crumpled
 390p - 9 - 457W 48N 11' out south - but
 505p - under train line
 2330 255 2330 - 2:45 } Esch
 2310 145
 2320 215

