

UNITED STATES  
DEPARTMENT OF THE INTERIOR

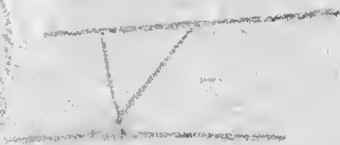
—  
GEOLOGICAL SURVEY

—  
9-138

**V.**

H. S. LADD

6.5 m. 1941



Note - 2 1/2" Dec. set off p 20 - earlier road T.N

pp. 0-8 corr.

9 - 14 True N.

16 - " "

1941

Revised 7/31/42

1941

Received 7/31/42

T. 125

W. horse Mt. (Hills)	2
	57
	131
	5
	7
	14
	15
	10, 17
	15
	0
	7, 38, 46
	17, 20
	7
	21
	20
	20
	28
	32
	30
	35
	40
	29
	49
	4
Mash	42, 52
	45
	40
	47
	48
	50
	52
	53

CCC trail - fire tower to Bastian - - - - -	55
Cross around Mt - - - - -	56
Old Iron pits to H.C. Creek - along ridge - - - - -	59
Gully to west 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 Swamp Sutter - - - - -	67

(Harrison prospect)

04 00 Harrison Prospect, about 60 ft  
 There are two groups of workings on  
 ridge. 114 ft high (reli (B...))

(Hemlock mine)

Oct 30

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

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

None of these explorations yield  
more than a few pieces of iron ore - the  
ore is wholly unconsolidated and  
is soft fine sand - partly in small part  
under 50 ft

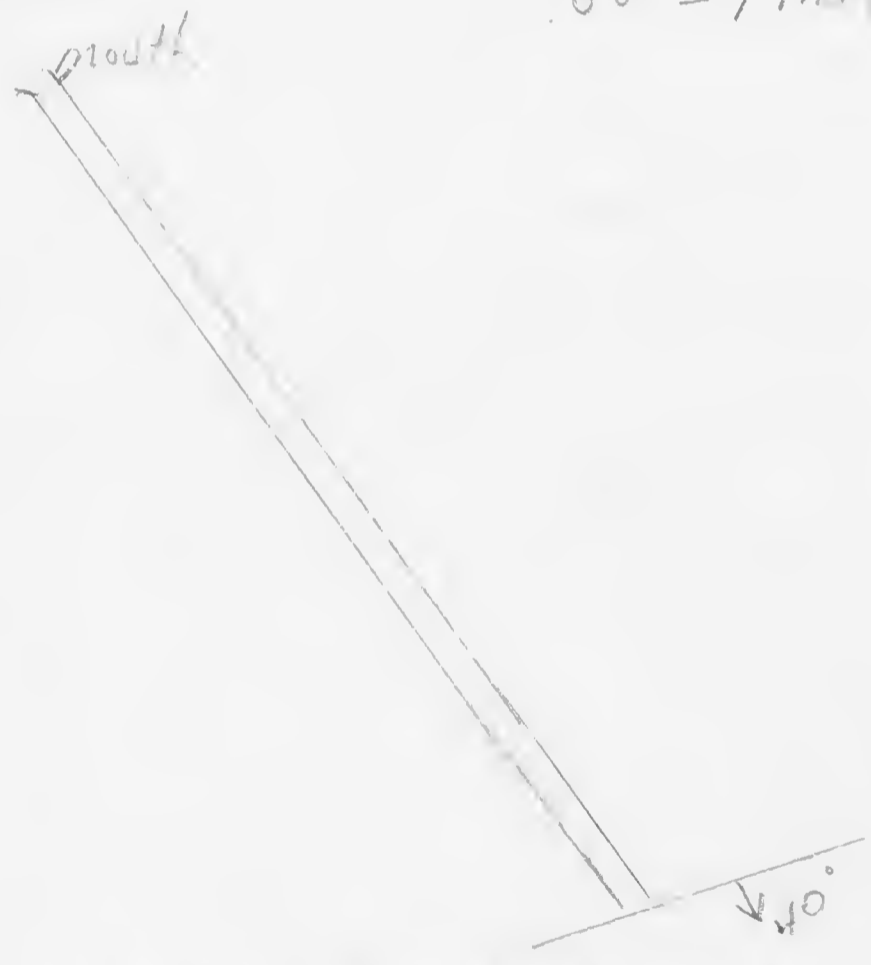
M. L. Harrison, Prop.

M. L. Harrison Tree & Lumber Co  
Wrightsville, Va

Herrison's property Mill Cr.



50' = 1" inch



Turnout on S side of mill Cr - 552 E,  
150' - timbered entire distance. At  
face, bedding of fine sandstone shows  
well - N75E, dip 40 SE

Mm oxide largely in cross fractures  
but in small part on bedding -  
streaks largely 1-4" wide - no solid bodies  
- mm. in center of st.  $\frac{1}{2}$  to outside

2) Bunkhorn Mt. prospects (Hewitt)  
3 1/2 miles NE of Mill Cr. on saddle.  
Tract about 1500 x 500 has been  
prospected by numerous wide hill  
stretches and 4 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 lesser 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  
sandstone - it is probably

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

No analyses of samples yet!

Tests by George Stoddell indicate  
that 47% Mn concentrate  
can be floated -

Apr. 1  
1941

Tues

To George Moore with Rev. Moore was  
 geologist chief Manning Eng + W. Moser  
 to examine new excavations, drill logs, etc.  
 Moon + Glenn were put down 26 holes to  
 max depth of 100' but struck no hard ls.  
 (some of shaly material in lower depth holes  
 may be altered ls. + clay that occurs  
 below ls. in most all holes, may have  
 had a similar origin ~~ls.~~). Found very  
 little Mn - some at NE end of  
 of 25' near hole in [good manganese  
 - 10% better] - probably exists with  
 some of wood. Glenn has spent \$3,000  
 - may run to it in near future before  
 work is finished. Moon has been well  
 under contract - but a complete survey of  
 - some depth complete in of cutting of it  
 - there not needed in worked out level  
 [then digging may be needed for ground]  
 - can get in complete bench maps.

Apr. 12 Fri.

To Litchfield quarry at Summit - the opposite  
 with Jerry Colton Rd - not below in it  
 had pyd

Marysville	Town	N 6 E N 9 E
	L. Moon	N 5 W
	L. Moon	N 3 W N 35 W



2400' = 27.90 - Xing of <sup>Dec</sup> level of golden clearing

2485 on mt road above Laurel - heavy chert floor - can see <sup>some</sup> ~~some~~ <sup>more</sup> ~~more~~ <sup>decentered</sup> ~~decentered~~ than on map. [later - map OK]

2520 at pt <sup>S10W</sup> ~~S30W~~ of gully with - D<sub>1</sub> block - contact with Dec. in the high or higher

2570 - D<sub>1</sub> & Dec floor - gully with <sup>N34E</sup> ~~N37E~~

2620 on creek - Dec floor to here at least

2740 - chert floor only

2850 - " <sup>N76E</sup> ~~N73E~~, 155 - on shallow gully

2880 - D<sub>1</sub> & D<sub>2</sub> floor (D<sub>1</sub>) - to E block

But by gully with strong stream - down over chert - no Mn at 2640 (at least none but N. 2665) on down - <sup>up stream</sup>

2660 D<sub>1</sub> & D<sub>2</sub> floor - on

Up to 2780 - on D<sub>1</sub> floor - Dec floor <sup>at</sup> ~~at~~ <sup>edge</sup> ~~edge~~ <sup>of</sup> ~~of~~ <sup>sharp</sup> ~~sharp <sup>ridge</sup> ~~ridge~~~~

$$\begin{array}{r}
 2540 \\
 2580 \\
 \hline
 2460
 \end{array}$$

down creek to bank to sunny side  
 70' - 80' but - at 2500 or 1000 ft  
 80' bank only  
 2500 - 2500 - 2500 - 2500

- some creek to look to Jerry's  
 roll - (left bank) - at 2540 or 1.2 ± km  
 in Pe. bank gully  
 - 2535 - Jerry's Creek Cr - mt  
 gully

2550 W. of road X-ing (about 2400)

- along road they are recorded Jerry's Creek  
 at mt right (by) but - up mt south of  
 NW & down Jerry's Creek hollow valley - but  
 up to 2540 - look to left side further  
 NW - then to lower Jerry's Creek hollow.

Apr. 15

Four  
 Note - To be northeast side of mt. top  
 when only probably of Mt 2 - from then  
 fairly horizontal (shaly) clay to sand  
 fine ls 3 - in a thin a further to west  
 they are lower than + Mt 3 (some  
 further S they are more striking Mt 2  
 on lower Mt 1 - program should  
 collecting all sections from below?

Apr. 16

1141  
 Examined section, trench near Orange  
 before mt. 2500. Total length over 4000'  
 C-1-2 - 5' (shaly, <sup>2</sup>concretion) + 1-2 - 5' (shaly W)  
 - There is SE side of mt. and west - 2500  
 + low at low pressure

Chert - Chertage

{ Upper zone clean ss. with some  
 alba + fossils incl. Aspidoceras  
 Zone of slaty ss. - soft, well  
 bedded (x-bedded) - weathering to  
 mottled soft reddish ss.  
 [ <sup>thin</sup> mottled greenish-gray + pink waxy  
 clay occur <sup>in</sup> layers? or in some  
 benches ] -  
 Zone of mottled red-yellow sandy  
clay & silt  
 Top { lam. clay  
 ls

On NW from are 3 benches - with  
lam. yellow + green clay below D6.

\* ~~More will down notes with some over  
to the later along with bench map.~~

## SWEET SPRINGS

Apr 15. Fri

Examined point in cut below Mayan, near heavy dol beds - some small chert - Dol like upper 1/3 & some middle / Knox - Brule - then a spongy cherty layer at least 6-8' in width - that contained no large fossils

- then a layer of cryptocrystalline dolomite - in fact a thin layer in thickness - found on road in hill 20' or more outcrop

- several nodules in toward - east of hill (these were at several places in stone)

Some of the dolomite nodules in examination - dark to light color - like the gray - some more siliceous & than

112a

at contact - see spec. - sections of abundant small *Lophospira* fossils. in abundance in thickness 50-60' or average thickness - a form of "cherty dolomite"

Top of Knox has some small chert

- thin layer of chert (see below) in Knox

- and see just below in Knox

- with Knox - still contact

- continuing pattern in bed

Check floor in room at 11 and 12  
- track - out - ...  
(miles in ... - ...  
of ...  
originally ... - how = low in ...  
& high in ...

- few ...  
... - are also ...  
... (in ...)

In Meyer ...  
- ... probably 450 or better  
...  
...  
...  
...

- ... section ...  
...  
...

0.0 - Knot? [Lithology of ...]  
note ...

0.2 heavy ls. - ...

1.5 Mart ...

2.1 - " " ?

2.55 - ... - good for  
= ...

2.85 - ... - just below crest of ...  
[...]

/ - ... suggests that ... of ...  
...  
...  
...  
...

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

Cragg (Mills) Clench 30' (+7' 2" data  
 The points are Clench)

205' at 50° = 120 ± - Clench -  
 - then ferry Dev (Oriskany?) - entire  
 section overturned - so called Dev is  
 maybe Clench - green sh. floor  
 beyond ferry ss.

haul south of Cragg Mills

Mileage	Time	Notes
0	2220	
0.2	2290	Dbe <u>N60E, 80S</u>
0.4		" on gully head
0.6	2400	" <u>N20E, 80S, Suber</u>
0.8	2450	" on creek
1.1	2510	" " "
1.5	1011 to L	
1.4		" " Dbe
2.0		
2.00		Dbe <u>N30E, 68E</u> - on " stream some brown (over - Mo) <u>N40E, 68E (after No. 1)</u>



2.2 2850' N55E, 66 SE - Clinton ss.  
 on pt beyond Mt. - heavy glauconitic  
 up to 18" thick.

2.65 2980 N45E, 40SE - Heavy glauconitic

2.9 3040 turn back to R.

3.05 N35E, 40SE - good thin ss

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

3.45 N60W, 24SW Red Clinton ss &  
 green sh

3.55 N77E, 40SE

3.7 cl sh

3.95 get rd N, Nig

4.0 turn W, along Mt.

4.3 all Rd to R

4.5 3400 top of mt = Mt. to left of R. - Clinton

4.65 Rd to left

4.7 3660 N70E, 43S - good thin ss  
 fine sand glauconitic in bed 3"  
 to feet thick

4.76 Junction - L

5.75 Turn N - Maricopa

5.9 " L

6.09 " R

5.60  
5.29  
.56

6.65 2800 N85W GS spray, arg-ls - Maricopa  
- on hill 20'

- dip variable downstream

6.85 Quarry on "Star River" - probably Star River  
white breccia

Should be quartzite present - fossiliferous  
some here - mostly white quartz

- has fossils - red-brown matrix - shaly

- very distinct from Maricopa

- large boulders

8.25 Highway

Sept 21, 1950

Gully on the hill near base of Maricopa

Stn 2320 - top of hill - approx to 2315

1270 N70W N75W 25' on hill

\* 2210 - Cr. of land in Rd - correct Cr. - Cr.  
boundary on map

Holly Brook, Kilm - upper St. to level - site  
2350' - Dr. core met - interesting area  
20' on floor - 2270' at Clinton  
contact - 80' St. (hand leveled to 70' only)

Up down Cr. to Bluefield, Va. - creek  
filled with debris - some debris very large  
- lot of debris - in place of debris for  
some with small tree stumps - fossils with  
as shown - Dr. section to N + NE  
# Bank home - remove fossils - Bank home  
0.45 mi. beyond into road at creek crossing

Returned to Bluefield via CCC Rd  
over Wolf Cr. Cr. - left Byg  
Have Jeep at 0.0 - at Stange Fe Mine  
at 3.88 - on creek - Dr. with fossils  
(branch & ? crinoid stems) - creek at  
Mt. off. - etc. ?

April 22 Tues Horster Prospect

Examined center of S hollow on  
NW 5 of Wood's property - hollow  
runs N-S - head - some exp on  
lower pt - weathered above - remains  
of cavernous limestone have been  
excavated on property of John Geyer  
at head of gully. The main in hollow  
- NW corner of hollow is a  
gully to N-E but not one of any kind  
has been found in hollow. At head of  
central gully there is N50E, 4500'  
- on a magnetic line - suggestion  
of faulting in the head of gully -  
gully runs N 50 E 4500'  
2120' at head of gully

N50E, 1200' - at base gully - 1720  
Foot? dolomite - thin - tunnel under  
RR path - tunnel that is gully  
gully at it but to Thompson Creek

Only into the bottom of gully observed  
is at mile 421 (from road fork on  
Crest State Div. of W. 200. (mile 420  
near Horster Station) - in gully pit  
are west of road tunnel under N50E

Apr. 25 ~ Friday

One at morning bed in ... of two types - one a normal ... & other in form of nodules that are stained dark but contain very little Mn. Most of Mn in these nodules appear to be in tiny vesicles - nodules in which are largest and weight

113

at Leifer state fish ... nodules are present in abundance (see sample) but there are also some good ones in Ob. [?] some water like replacement of Mn.

Presumably Boyd trenches, near Sinter mine; clay that is ... may have been ... after becoming clay - or (acc. Store) white

Apr. 26

- Sat  
To ... near edge of ... - Springfield  
RM 2330 = 27.76  $\frac{N55E}{28SE}$  - take in ...  
bank - 8.1 mi from ...

2305 ... creek ... on ...  
near  $\frac{N18E}{N75E}$  - 13NW

2490 ... road ... - Abc ...

2690 - ... 15' ...

2790 - ~~1178E~~, ~~27W~~ - red & named blue

2815 - <sup>1178E</sup>~~1175E~~ 27W - red & named blue -  
cyclic red - gray

3075 - 1 m ~~27W~~ - outcrop to here

3180 - " " " " " "

3045 Red Bentonite <sup>1133E</sup>~~1130E~~ 27W  
- 5' below top of fault.

Down valley to NE - good exp head in creek  
2985' Bentonite <sup>N43</sup>~~1133E~~, 26N - thin Bentonite  
seen - red exposure in creek - see also a  
quartzite bed probably to be referred to Bentonite  
rather than Church

<sup>?</sup>  
2915 same as previous - purple - limestone  
seen in place between ~~1133E~~ <sup>1133E</sup> 25W  
under

114

2732 <sup>gray</sup> ~~1133E~~ <sup>1170E</sup> 29W  
[stone 2705]  
= 27.58 <sup>1170E</sup>  
- in canyon 1' or more in thickness  
- may possibly have been part of fault zone  
- 24" below ~~1133E~~ <sup>1170E</sup> see spec  
- layer of pt associated with 1170E (?)  
in creek here - see spec

115

2600 - end of

2560 - you show on L  
~~N75E~~ N65E 43W - 1/2 mi. at creek junction

April 28 Mon

M. J. Brendt property - SE side of Hwy - near NW  
Morganford - 1/2 mi. west  
27-1 - several pits - some green sh.  
that may be the top of the sh. in top  
of Clinton ss. looks much like Clinton

116

N78E  
~~N75E~~ 6H - Shale - rd with outcrops  
3245' above to creek - with some  
are N15W of rd fork

It is reported that some iron ore  
on Bedford place 1/2 mi. E of  
Panda land - seen by them

117

Call. site of road near the lake - little E  
of property mentioned above - some red  
quartz. & large white quartz

On rd above road from Clinton  
duff to which 03 ~~N78E~~ N75E 32 S - 2740'  
1133E

2680 - Rd. - heavy iron ore ~~heavy~~ chert  
100' here & just below - small pit

room to get in Tom & steel

- 2620 + above Don - in place - reg  
dip + strike  $\pm$  - Dbr. heavy, flat in ab  
2620

- 2310 - French house at rd - ca .25 mi to  
rd fork - (Holly Brook - Stamp Fork)

- 2060 Old road - many rd next to Wolf  
Creek bridge in south gap

- 242° W Dec. set off

cross creek in ab 319 2330 3/4 near  
edge Parker Garden shut

BM located nearby 3/4 mi W of Stamp Fork rd - 244° 7  
in 4.6° from Hoback turn

Wolf Cr rd 1/2 mi from Don to Stamp Fork to Howell

- 0.0 Don N80E 75 - fair exp. mod. - red + brown  
Dbr. - like so occur in several places in  
Don here

- 0.06 - Don rd. where H + Bridge cut in  
all 240° - Dbr. flat clustering

- 0.55 cross Saggons Trace - Dbr. in left  
about 125' below rd N40E 20SE - notable



$$\begin{array}{r} 3.7 \\ 3.75 \\ \hline 39 \end{array}$$

$$\begin{array}{r} 3.7 \\ 3.75 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 7 \\ 5 \end{array}$$

$$\begin{array}{r} 36 \\ 17 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 3 \\ 7 \end{array}$$

$$\begin{array}{r} 35 \\ 295 \\ \hline 645 \end{array}$$

$$\begin{array}{r} 310 \\ 312 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 3 \\ 4 \end{array}$$

-0.75 ... L  
 -1.0 ... R

... 2800 ...  
 ... 2500 ...  
 ... 710 ...

2670  
332  
66

3510  
2905  
645

3422+

-0.75 0.5 to L  
-1.0 cross Indian Hill Cr. - 200 m. high to R.

-Up for the next 5 <sup>2800</sup>/~~2800~~ m. on Don  
upward - end in heavy Clinton floor

-<sup>2710</sup>/~~2700~~ - large mass of Db - red - blue -  
heavy iron floor just below (~~2725~~ 2705) along

-arrived at about 2100 = 30' to high

Apr. 29 - Tuesday

May 20	2	39 57	at low for tower 5:15 AM
Pass Riv. time			Draw very gully to NW of upper end and acc trail to Brooker
0	3695	12.55	<del>3600</del> at 2:45 - upper end acc trail to
700	3635	11.15	Pass Riv. 2nd peak up
1160	357	11.25	3527
1205	3520	1.1	<del>3475</del> 11:00 AM. Start to rise - some

at 11:00 AM. Start to rise - some  
at 11:00 AM. Start to rise - some  
at 11:00 AM. Start to rise - some  
at 11:00 AM. Start to rise - some

Pass = 2.41

→ 3517 <sup>NS6E.7N</sup>/~~3115~~ NS56W.7N pink + yellowed hard ss -  
Clinton - no layers 6" or less - 11:00

3362 <sup>11.25</sup>/~~3361~~ - at 11:15 AM. Start to rise - some  
large mass of red gr. ss - luff - with small  
pockets white flint - this probably Clinton (called  
Clanch or Soc. flint) - 11:15 AM. Start to rise - some

3200  
3200  
3200

2000

under fringe of logs down to 20 - gully with  
now fairly steep

1852 3295' 2PM

3282 11.00

~~3195~~ - alcovs of *Stenota. pumila* - water table

under fringe of slope, brown & red - gully walls  
now fairly steep

3252 3295' 2 PM

3282 11:00  
~~3190~~ - along of Clinch, some waterfalls  
by talus accumulation below - boulders  
with arthropods scattered at top of fall  
N62E, 10N - 15' Clinch exp - some  
layers are quartz + quartzite

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

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

3252 11:30  
2970 - gully still abraded with Clinch - with  
rare boulders red Clinton, east of  
angle to right in dip slope of  
26 degrees on Clinch - some of them  
exposed in 60' above stream - good  
bit of quartz + ss on heavy sandstone  
+ Y-shaped layers up to 3' in thickness  
possibly the great mass has come  
down from above - see some  
stuff on L vally wall.

2200 3025' 2:20

117a

3007 1:30  
~~2905~~ - top of Sumata? red + green ss + sh - in  
creek bottom N70E, 29N - red ss  
shaded - ss. flat bedded  
N63E 29N

P V.A

3762 N42E

3517

Ab.

... ..

{ 3-... - 2300 - east Camp...  
- 2320 Fish

115 - 2300  
215 2310  
315 2320

?

2802 2:00

2770 - N70E 4318 - heavy white quartzite with  
crystalline quartz beds + also  
silurian hill side on N where it  
forms dip slopes. ~~Rock like~~  
~~bluish but probably is Silurian~~

2802 2:55

2770 - N70E 43N - heavy white quartz, mostly  
exposed on east side & above  
stream on hill side on R when it  
forms dip slope. ~~Look like~~  
~~clinch but probably in stream~~  
- calc 5" thick + less - mt. a

239 2360 2:35

2702

2680 - same dip slope N65E 43N  
This is clinch with good beds of  
Artisophyrea 2:35

2590 - Red Center float in streambeds -  
no crops in stream or streambed

2492  
2480

Don apparently in place on R bank -  
alt. obs.

2954 2540 3:10

2227  
2220

Don on bank above standard R.R. road  
of way N55E, 35SE (about 5' above  
Wolf Cr.) 3:45

3562 2300 3:25  
Dip 10°

2242  
2250

around car. (Fech - reads 2280)

Fech	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. in forest

First Trench - immediate at 2920 = 26-38 H <sup>543</sup>/<sub>500</sub>  
Trench E. only, 2000 SE to hunting camp creek  
Clinton first level + soil to head of gulch

-3600 - Spring, warm - good flow

-3550 - large mass egeratic, probably what is -  
± ⊕ but probably not in place - Clinton

-3370 (9:30) gradual steepen ahead - large mass  
into what Clinton standard but now appears to  
be in place

-3260 - first tree in from left ± same volume  
in stream I am following

<sup>10 AM</sup>  
-3090 - gulch closed with Clinton - outcrop high in L  
valley wall - 3160 N15E, 28E - not Clinton  
se with purplish shaly partings at 2 places  
characteristic "faceted" markings on bedding planes

-2925 small tree in from left - heavy basal gravel  
begin part of a hill - also top of Clinton?

<sup>2940</sup>  
-2850 (10:30) in middle of hill gorges led as AL  
on Dan flat yet

<sup>2630</sup>  
~~2840~~ (not plotted)  
Clinton as N75E 28S - appears to  
- heavy 1' base or + some of ss. (cf  
samples by us on opp. side mt. (p. 18)

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

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

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

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

2590  
2635 in R bank at 2650 are heavy sh blocks  
2525  
2575 sh in creek bed - massive sh massified  
N 20E, 56 E - appear to be sh - but not sure

2510  
2560 - gully open side & gradient down

- in gully after long stretch along stream with  
sh exposure - take old rd along L bank -  
at ~~2475~~ <sup>2415</sup> Don floor

2295  
~~2355~~ - 12:15 PM - edge open field - NW corner  
on creek to NE of road - 3 exposures - see map  
map -



2250

~~2310~~ - on creek above RR line - D.H.  
165E, 30SE

2245

~~2350~~ - rd on Hunting Creek (Fochs 2345 level)  
Fochs Bar

10 — 2280

11 — 2300

12 — 2340

Gully trending SE - starting on rd. 6 SW  
of Rd Mt. Tower on Red Clinton

3795 (Fochs = 3805) -

3700 top water

3650 gradient steepens ahead

3535 large mass red Clinton ± flat  
may not be in place but Red, but  
come far - dip probably 5° off Mt

3230 Red Clinton at stream level - 1<sup>st</sup> dip  
NSE, SE (strike off due to slump)

3225 - over dip slope on red Clinton as  
NSE, 20 SE -

3050 - still on dip slope on Clinton

3060 - good sized tree from L

3025 Clinton 185E, 195 - red ss - with  
some very large giverson fossils begin  
just below here

<sup>2:30</sup>  
2575 N55E, 20SE - typical red ss of  
Clinton overlain by thin light  
yellow buff ss, showing ripple  
marks

<sup>2:40</sup>  
2850 " hard yellow & pink ss - dips up  
to 25° - at same

2775 Clinton red N55E, 25SE

2760 2:40 - hard white quartzite -  
beds 5-10" thick at both Parker  
Kaifer?

2720 Clinton ± same hor as last - quartzite  
N70E, 24S - big mass abt. 20'  
in diameter with bedding vertical with  
on Clinton

2650 Ben flint - Clinton still in creek

2575 Ab. cliff N60E, 25SE, typ. lith.  
3:30 no fossils seen - 15' exp.

2470 Ben flint - Ben in R. near 287

2450 - 3<sup>rd</sup> N80E, 15E Dia on L bank - 1st

2470 Hunting Camp Cr

2450 - Rd

Foot

2 PM - 2450

3 2480

4 2500

May 3  
U

Saturday

0.6 Taguett Rd near McKeen

0.35 Slo N70E 30N

0.75 Slo N85W, 45N

0.95 Under trees, fine

1.25 Slo N70E, 35N

1.75 over rd - L. bank to N: - r

2.00 over L. bank to W: - r

2.35 Slo N60E, 31SE

2.40 Slo N35E, 28E

2.50 Slo N18E 9W

2.68 cross L. side 115° 12

2.75 Abs N60E, 44N

3.05 Abs folded

3.15 Abs N65E, 28S

3.30 entrance Camp Road

3.35 Abs N45E 50SE - Wolf Cr. area to rd. side

3.50 cross L. side 115° 12

3.57 Wolf Cr. area to rd. side

3.70 Abs N65W, 32SW

3.80 Abs, folded, N60E

4.05 cross L. side 115° 12

4.4 " " " " "

4.45 Abs N65E, 55SE along RR bed in N. side Wolf Cr. 63E

4.5 Abs N65E, 7S

4.85 Abs folded

5.35 Abs N72E, 57SE

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

5.50 " " 205

5.85 " 170E, 22S - var.

6.05 ~~W of creek~~ ~~near to rd~~

6.25 ~~near to creek~~ ~~W of Cr~~

6.45 ~~rd to R~~

7.00 ~~near~~ ~~W of~~ ~~rd~~ ~~to~~ ~~R~~ ~~bank~~

7.09 " ~~R~~ ~~bank~~ ~~to~~ ~~W of~~ ~~Cr~~

7.45 - ~~Stream~~ ~~valley~~ ~~cr.~~ - Dis. located ~~in~~ ~~front~~ ~~of~~ ~~church~~

7.50 ~~near~~ ~~rd~~ ~~to~~ ~~W of~~ ~~Cr~~

7.75 ~~Dis.~~ N 55 E, 12 SE ~~near~~ ~~on~~ ~~R~~ ~~bank~~ ~~to~~ ~~W of~~ ~~Cr.~~

7.87 - ~~BM~~ 2330

8.16 ~~rd~~ ~~to~~ ~~R~~

8.25 ~~Dis.~~ ~~R~~ ~~bank~~ ~~with~~ ~~B~~ N 60 E, 45 SE - ~~with~~ ~~small~~ ~~fields~~

8.55 ~~near~~ ~~W of~~ ~~Cr.~~ ~~Dis.~~ N 73 E 40 S

8.72

9.4 ~~rd~~ ~~to~~ ~~Rt~~ - ~~BM~~ 2441.

296

195

13

296

138

135

570

To NE nose of Rd. Mt.

24.5' on rd. E of base line - 3-7

5430 Base on rd. - 5500 - 9' distance t. base  
cross, N85W, 23N

N75E, 49N - top of mt. 3' dip  
N85W, 23N - top of mt. - 14' dip

~~135~~  
~~70~~  
 135  
 70

To NE base of Rd. Mt.

2415' on Rd. E. of Truss Run Yung - 3:17

2435' Don on RR cut - 530' S of pt where 1. line  
crosses, N85W, 23N

— N75E, 41N - top of DB with ? *Aspidia*  
554' of Hickock Ch - on RR cut - 14' SE of track

2450' - N83W, 16N - DB. 580W Hickock Ch. on RR

— N77W, 15N DB - on RR - 578W of Church

— N60W, 51NE DB with *Aspidia* common -  
about 100' above 580W of Hickock Ch

— N50W, 27E - 2' (only) (marked) on RR cut  
- small gully here - all DB.

2410' Don N42W, 15NE - on RR gully - 580W of RR  
near 575W of RR - 4:15 PM

2465' Don N30W, 15+NE - 573W of Hickock Ch

Don's gully has *Aspidia* marked Ch - down gully  
& back along track

N25W, 13NE 2-on RR between RR & RR - pond out

2410' W. side of RR on 2nd line - 5:11 PM

May 5 - Monday

Leaves 2150' Lodge B.M. - Boulder  
(H = 27.90) - 9:45 AM

Proceed to mi 2.93 <sup>average</sup> - from ridge just  
say old below mine, see 3060 (=3050 for  
instrument) - 10:40 - start out on Clinton

3030 N65E 14SE in 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 white rhyolite marked as  
Bryant quarry N55E. - rock still N65E, 15SE  
These beds may mark top of Clinton in  
what some pits are on local site with  
a small vertical interval for 25  
local strata in place in pits in 3015  
- There a vertical interval of not more  
than 75' for Tomloway - These strata  
beds - just be about N60E + dip  
(variable) 35 to NW - assuming this  
into the fact dips may be due to slump  
- though I do not think so

2900 - still same dip slope

2835  $\frac{1}{2}$  getting slightly lower - Clinton  
- local site with massive beds 22



ss. N65E, 14SE - thin heavy layers are  
glytic & exceed 1' in diameter 11:30

2770 creek on old trail - still in Clinton

2740 dry exposure thin bedded Clinton here  
N75E, 19SE

2660 - dry gully from R - skirt rd etc. no  
outcrop here in Clinton, what bedded  
rock - no marked change in gradient  
of gully to here

2650 Gr. ss, <sup>possibly</sup> with abundant rounded stones. E  
appears in large vol. in creek bed

2645 Don ~~bedded~~ in abundance - noon

2510 poor exp. Don but apparently in  
place etc - N70E±, 20±S

\* 2510 68p. below but in R bank 15± above  
creek bed are masses of fanglomerate  
with some + ss. pebbles - some pebbles  
rounded - not from higher level

2440 460 p. rd on farm Rt. 20 State rd  
are probably in 1862

2420 - 920 - Gr. - thin, possibly lower than  
here N437E, 34±E

2390 - 830p (2380' FocL) - 12:40

Anderson W. of Buxton

2325 Don N40 E, 22 SE - ss + cherty ss.

Pace Dir th.

- |     |  |                              |
|-----|--|------------------------------|
| 0   | S60 E  |                              |
| 20  | S15 E  |                              |
| 41  | "  | Ab foot                      |
| 50  | S40 E  |                              |
| 80  | S20 E  | - to sawdust pit behind mill |
| 210 | Hunt Camp. Cr. & mill. Don <u>E-W, 20 S</u><br>at cr. level - 2270 |                              |

up to RR bed at pt 1/2 mile N of Buxton  
cut - but not apparently on 200 but on  
ground surface - slope of heavy Don flint between  
High Rd + highway - ~~located on side~~ - ~~see~~  
at level 2370

2365 Don N25 E, 20 S in gully above  
at level 5220 of tower

2265' at rd. 1.22 mi N Buxton fork - valley  
1/2 pt where Power line crosses

~~292~~  
~~276~~  
~~1775~~  
~~206~~  
~~193~~  
~~191~~

---

1920

276  
 140  
 11040  
 276  
 386

---

20

276  
 360  
 1380  
 106  
 276  
 2051

---

14

- 2285 - 20° N40W 2017m July 5th 21

- unburnt crop
- 200 p. to W and N along 200 ft

275 p. am 50° E of 1st line in 2017m

- 2285 - D<sub>h</sub>° N40W, 20 NE along RR bed  
- noticeable crop  
- 200 p to W are in many D<sub>h</sub> fault

- 295 p. am SSE of slab house in Tanager  
rd

2300 - N75E 93N D<sub>h</sub> along RR bed  
- some with D<sub>h</sub> fault + fault  
see N75E

2350 D<sub>h</sub> N80W 23 N - with folding  
along RR bed this line 8' above  
Wolf Cr - in 300 p + take bear  
- also mentioned what appear line  
N75E

2400 RR N75E 20W - along RR bed  
at Camp Round 1:30 - 14-15 p.m.  
D<sub>h</sub> from gully 5

D<sub>h</sub> E-W, vert in wolf Cr at camp  
Round bridge

8 p to E across slab. D<sub>h</sub> broke line  
N75E, 40± N

0 - white house  
12 - white house  
195 - brown house

Mar 6 - Tue

0

General set of Eastern ledge  
2180 = 27.55 4. 7:50 AM

Return to gully of yesterday AM: 2,93 306.  
(- 3040 road) 8:20 AM

3130 Climb on N65E, 12SE - up dip slope  
to the point

3150 Climb on N70E, 12SE 8:30 - similar  
only to about 3170

3320 - fairly flat - but becomes steeper  
as we level - no outcrop between 3170 -  
3170± - 8:50

3330 Small piece white chert

3375 At floor with large, even stone walls - no  
Don can

3440 Top + dip slope were a wall - excellent  
Don can - Pt. all found the level &  
evidently some crest here go N25E to  
high pt

3490 The top pt clipped out heavy masses of  
but can can <sup>2000</sup> be <sup>2000</sup> - but 5' high  
at low or level in contact with Don - note  
7:15

N75E dip?

590  
 340  
 ---  
 250  
 215  
 ---  
 1250  
 500  
 ---  
 6250

Trans. from receipt to East. mound

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

105 SSE 3430

130 S15W

trans. from ridge to East. mine

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

105 SSE 3430

130 S14W

175 S30W 3420 - bottom of saddle

340 S60W 3470 - on 2nd Dr. hill - top of hill  
hill at 3475 (20' below last) show  
no Don chert - only heavy iron forming  
Dr. - this hill 20' lower than last  
- find. may be @ here - 9.50

590 N80W 3490 - high pt. gate on road with  
heavy Don floor - near @

3440  
765 S30W  $\nearrow$  Fork of Boyd pits  
 $\rightarrow$  to main workings

800 $\pm$  — 3435' lam. (Top?) show a 2<sup>nd</sup>  
Boyd pit - then pits actually  
on crest of mt. - effect on crumpling  
of clay?

191 $\pm$  — 3410 top lam. + cont. clay in  
4th (main - when scaling clay coll.) pit.  
1040 edge East mine - East mine  
workings

3420' - top lam. clay where Shaver was  
 working in E. Mine - on low ocean  
 in clay within 5' of top - clay by  
 a 16" pit was just down several months  
 ago - all in "rock face" - no ore

← 8' →



- 3420 (6th level) 11:15

3340

8:35

- 3370

9:35

3400

10:35

- 2.84 mi. at SE edge pit (3.6 at departure from 3370)

- 3.82 mi. <sup>CDC</sup> <sub>10'</sub> to L - trail 7. to R.



[ - - - ]

Tru ... Carter Br. - ... 200 ...  
Start of 5 ... at 2505 - on ...  
C ... 251 ... 31 AM

3220

~~3270~~ - gully ... with ... - parallel to ...

3250

~~3280~~ - bench 104 - N 6 NE / ...  
Eyes of ... - ... - ...  
in ... - ... - ...

3280

~~3250~~ - bench 1073 N - 6 NE / ...  
... with ...

3080

~~3140~~ 1186 W. 18 N - ...  
... in ...  
hill ...? - ...  
... of ...

2910

~~2970~~ N 6 E, 37 N - ...  
... level

2910

~~2965~~ very ...  
... ?

2880

~~2950~~ (10' ...  
- red ... + ... N 65 E, 23 N

2810

~~2890~~ ...  
...  
1199

[ 2590  
2760 on Creek Don - good crop 1170E, 33M  
5' ± approx ]

return upstream



2660  
2770 Winton gray gypsiferous m.  
N75E 40N - good place to  
compare with thick of Tom & Bob

- back to Don 1 <sup>2590</sup> - ~~1170E~~ 2750'

2590  
2700 crumpled above on R Bank  
unroofed below last & at point  
10' ± above creek - the drops of  
Don probably about top of form

2510  
~~2630~~ Pt. N60E, 45N - on creek

2420  
~~2530~~ creek on old STOP road

2330  
~~2465~~ - not all creek with (= 2570 Point) 2330

2330  
~~2460~~ on BRK 2330 (130' high)

Apr 7 - Wednesday  
 Section of Dan-Db: Tm on CCC rd.  
 at foot of 2 corra

Elev	Sta.	Direction	Dip	Remarks
2780	1	S66W		Dip 25° E, 6° E parallel very close to top of Dan no str. exposed
	1-2		50	- on Dan
	2	N80W		Dip N60E, 15E
	2-3		50	
	3	N67W		Dip N45E, 8SE
	3-4		50	
	4	N45W		Dip N35E, 2SE
	4-5		40	
	5	N54W		Dip N70E, 15E top of Dan - top of Db.
	5-6		38	Dip exp. for 100'
2950 [to high]	6	—		Top Clinton <u>N70E, 22S</u>

$$\begin{array}{r} 300 \\ 22800 \\ \hline \end{array}$$

$$\begin{array}{r} 120 \\ 190 \overline{) 22500} \\ \underline{170} \\ 550 \\ \underline{500} \\ 500 \\ \underline{500} \\ 0 \end{array}$$

190' = 60

Dim ————— (tape measurement of core)  
 0-2 mth, <sup>slight</sup> fine sand  
 2-5.5 chert + sandy clay, non-glass  
 5.5-10 ...

Sun. ——— (slope measurement of slope)  
 0-2 well, slight, fine sand  
 2-5.5 chert & sandy clay with glass  
 5.5-6.9 local glass. m  
 6.9-64 — chert

May 8

Thurs.  
 Aneroid 2180 (H. = 27.70) - 7<sup>45</sup><sub>AM</sub>  
 At Fire Tower 3920 (= 3900 Fath) 8:45

Head N 22 W to head Mark's hollow

3520 - 9<sup>15</sup> - better .. .. - all water but there

3300 Climb N 46 E, 26 NW, 9:30 - (see sketch)  
 N 45 W - (see sketch)

3250 Climb N 45 E, 30 NW - gray gneiss  
 from 15' cliff

3250 N 43 E, 26 NW - Local Mark's gully  
 climb?

3130 N 45 E 30 NW - hard yellowish gray, tan  
 dip slope 10:20 on S 20 E of  
 brown brown rock Mark's

3090 same bed = N45E, 30 NW

2950 am S16E of brown rock - return main gully  
- return to former (Mash?) gully  
+ SW

2885<sup>+</sup> bed clear at mouth of bank  
N45E 22 - slope steep slope stream  
down & bank - gully below N45W  
11:15

2690 Clinton red reaches base gully  
N45E, 35 NW

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

2625 Clinton? N50E 39 N - what gully  
22 - good view 11:30

2355 Dbr. N70E, 49 N - on stream

2430 level S31E of the stream  $\frac{1}{5}$   
- on old camp - Dbr. a little  
beyond foot of bank Don't look  
over on the same - stream from stream  
12:15

2400 Dbr. at Dbr. camp at stream  
- of bank - folded - badly  
crumpled - 12:15

Foch. 9:15 - 2260  
10:15 - 2260  
11:15 - 2270  
12:45 - 2280

Rd to grapefruit 2270 (Foch sum) 1800  
13M 2254/6 (=2265 measured)  
at "Brown holes" 15 mi N  
Dial " "

3695 (3685 Foch) - head gully  
A at pt. 37 mi NE head trail  
to CCC camp 1:40 (approx. 2 PM)

3225 Clinton N15W, 9E - all Clinton here  
(mostly red) to here; photos taken at  
2:10

3180 Clinton N15W 6E; red. at 1-5 mi  
2:20

3125 Clinton N10E, 12N - good road  
near gray ss. Surface with weather  
gray clay here

3080 N50E, 23N - 2 crop white granite  
" - Clinton? 2:45

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

2840 27N Cloud 5:0 beam  
bedrock white quartz under surface  
dip layer - gully very shallow

2750 500 - sand face dip 4°  
- gully nearly vertical - in stream  
of sd, mostly chunk, good  
interlocking on blocks

2230 1000 to 10 gully with 4/20

2280 added (= 2300 Foss)

1175  
117C  
17ay 13

- Tuesday  
(2180 (H = 27.84) 9:30 Boston bridge

0.0	Sumter Δ	[nd to ecc rd = 849, 6/mar]
0.500	0.22	to right (on line L)
	0.6	turn back
0.0	1.0	turn right
	1.3	into L fork (R = proposed)
.42	1,42	DB - 2460 - <u>N74E, 225</u> - 10:15
.75	1,75	DB - 2640 - <u>N75E, 20±5</u> - 10:20
.8	1,8	" 2660 - <u>N48E, 23S</u> - 10:25
	1,9	" " " "
	2,0	" 2835 - <u>N70W, 16</u> - 10:30
1.05	2,05	DB - 2880 - <u>N55E, 19S</u> - 10:35

1175  
117C  
17ay 13



2.05 + 70 p = Alt - N45E, 125 ; 13 p beyond in last yard 86  
in old map paper?

2.05 + 275 p = ... N65E ...

2.55 ... 30-3 N55E 165 11 AM - white ...

118

shale distance beyond (2.05 + 347 p.)  
= ... with ... out ...

N60 + 15 E - Clinton ss like ...  
with ... in place ...  
2.05 + 367

2.7 Clinton 3060 N65E 12 SE 11:45

118a 2.85 ... - coll. spec. suit pyrol. ? from  
East mine (by miners)

2.95 ... Rd 3295 - 12:15

3.1 ... to ... mine - turn ... 2:30

3.2 Clinton N31E/15 E, ...  
what then bedded at 3395 12:35

3.35 ... take R

119

2435 - Work mine - 17' ...  
hard ... + ...  
... of ... with ...  
... - well ...  
... - some ...  
... like Torr. ...



34 ... PM a new bench down to  
weathered ... clay with  
3- ... - hard ...

120

slope are mixed up in thin 8' bench along  
 with some run. - N 20 E + 15 ± E  
 may be top of ...  
 - appears irregular in which looks  
 to not think much of this in fact  
 - ... some of ...  
 ... 300' E  
 of pt. 3.38 mi, or rd. - bench 1 W, 80' long  
 8' deep

.95 mi below Grouse Rd to Worker  
 Lane gully to Sinter 3025 at 1:40

- 240 p. <sup>2870'</sup> 1:50 N 20 E - ...
- 315 p. 2:00 2810' N 20 E - ...
- 482 p. 2:10 2720' - ... N 20 E good road
- 490 p. - 2:15 2730' - ... med. gr. ss. with ...  
 greenish sandstone here close to  
 top of ...
- 680 p. 2:45 2640' Ton. ls. in L bank  
 is also ... N 35 W 10 S NE
- 800 3:00 <sup>2560'</sup> " Dark ls. appears in gully
- 810 3:20 2545' - - road at Sinter Δ

1200  
 1835  
 Pace  
 trav. = 2.65

2360 - 2 PM } Fresh  
 2360 3 PM }  
 2360 3 " }

RT 1-4 Green water  
 6 Lows, NE from pt N of water

Monday 1st - 9th

Under 2150 (H = 27.97) Bottom layer 8/5 AM

- Found 22 on SSE of 2150 from 2150  
 red + Green water - N2E, SE 1/4, and  
 365 above 2150 red - blue 2150 32/15

- Under at 3.72 m. V52E 85E; " 33/15

- Under " 3.78 " N5E, SSE; " 33/15  
 The water above also had green water

(Bottom 2 ft has dropped 2 m from 2150  
 each side - acc. to 2150; now with  
 sediment basin)

- Turn to red to W Green + Green water

- At 3.9 m. There are a number of scattered  
 purple patches - transition to SE of red but all  
 are badly slumped. Slump blocks are largely  
 blue to red with some LB (one foot) in top of  
 red are orange and brown + purple + green and  
 few pieces of good Mn. ore. The blue is 48

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

4.00 rd. to left in entrance ahead

4.25 - fork - rd to N side road in circle - we  
continue about 1/2 mile.

4.60 Clinton rd. 1/2 S(?) on top of  
recently opened hill top elev 3765 at 1.25

probably Clinton - with minor amounts of  
4' or 5' of chert seen.

4.20 rd. to left - in distance ahead

4.23 rd. - rd. to R side of road - we  
returned about 5:00.

4.25 Clinton road 125(?) on top  
roadway opened - last layer elev 3465 at 1-5  
of road 60' long trending NW-SE opened in  
direction - to depth of 6' in surface material  
- as a result, they - then turn NW more  
down hill towards trench in barren  
- above Clinton in little side trench at  
west end of main trench.

4.21 Clinton N130W 10E - ripple marked, level  
beds ss - elev. 3520' - 10:00

4.31 Clinton N130W, 14E - in rd - elev 3530' - 10:00

4.35 - in car - on up to road in road 3585' - 10:25  
- on side of road - elev 3585' with ripple marked  
beds

215' beds in road in road at 3645' 10:30 N130W 14E

7:11 AM  
3365' below well in West name Clinton <sup>2</sup> @ 4' from  
near lower limit of workings, then road

coll. stuff in here, most of which is very sandy

spent some time examining dumps of numerous small pits & trenches scattered over West Mine area - mostly flat - lying, nearly flat.

- 1) bedrock over entire area is upper Clinton
- 2) no Tom clay found but roughly brown clay occur in top Clinton
- 3) very little iron in Clinton
- 4) most of good surface ore already picked up; remainder of good ore all small, big stuff all very sandy.
- 5) no additional exploration work of any kind justified in this western area.

Location of CCC Rd + new rd to E. Mine

Pace	Dir.	Elev	Time	Remarks
0	N30E	3365	11:45	Clinton p. 46
150	N			Lu. material
300	N45E	3350	11:50	DB + some fine old pits
520	N15W			
600	N40W	3320	12:10	
628	N25W	3305	"	old Road

to CCC Rd on N side

0	N15W	3370	12:20	- on edge of
60	N15E ±			
710	N	3245	12:35	Heavy clay pit
825	N25E	3220		ore small at to R side - in 50

Pace on this trip = 2162 ±

May 12 - Monday

To Tazewell Va. to visit Mr. A. Bowen  
His property - near Nye Cor. Cor. - I  
had no work prospecting. Specimens he  
showed me largely of red siliceous iron. I  
had also seen in SW. (see Star-Musee pp  
175-177) - this is estate property belonging  
to Henry A. Bowen & others - and in another Will  
notify me & send spec of additional prospecting  
in zone (Green must to work this place)

Visited Harman prospect (Harman prospect  
of Star-Musee pp 179-180) - written me at Bowen  
suggestion

117b. - sample wet clay - 1/4 mile ...  
To - shaft now down 10' + - down (19' ... of Mr  
N 20' (analyzed 29.7 at ...). In clay zone  
Nolichucky? In valley below ... N 65 E, 35 S

Also examined rd cuts to NW of Harman  
117c. - on Nolichucky - N 55 E, 35 NE  
along road here.

No ... how far down ... Harman ... long  
- cannot see ... such as ...  
seen in at north of ... more pits opened

200 ...  
195 ...  
1035 ...

along road here.

No work has been done by Harman for longer  
time - cannot see much of other  
side of road

850 W20W

175 2850 100

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1055 3000 100

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1270 3000 100

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

121

284 3010 100

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1313 2950 120

This is part of the  
- to south for (Clint) -  
to the south

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1405 W 2910 120

- structure

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1605

1605 N70W 2830 100

2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it

1605 W " "

Location of  
5 D's NW

heavy thin upper - 2000  
2000 2000 ft  
with fossils as well  
small grey pebbles  
found in it



1762 S85W 2790 1-5 look into SW - 1200 ft  
 18 in good road.  
 1763 W 2760 2 0 SW 13-E, 38 NW the  
 fault is here & probably here  
 close to top of fm is  
 1760 2000 2 Don N55E, 35 ± NW,  
 which is here & back of  
 Don - fault is very  
 very prominent on the rd  
 - Don is here & road  
 1770 N55W  
 2051 2520 2:20 PM - rd. at house  
 SW - 2000 ft - contact  
 Don + 2000 ft - probably about  
 2000 ft in 2000 ft  
 3052 2400 2:35 - rd. at house

↳ = 2370 (Fork) 12:30 2360  
 11:30 2380  
 2:30 2390

R I # 6/7 along south from rd - first fault in Don.  
 2nd Clinton - 3rd fault of Mt (Clinton)

\* checked on H. area 3000 2334 BM = 2400  
 Returned - mark gully - up - mark on standard  
 2765' 4' PM N55E, 40 NW Clinton of top to  
 + indicated that green sh - then  
 face in main fault here - then  
 in a "bottle" (?) ridge below

276

241  
 276  
 14 + 2  
 480  
 660

185

211  
 45  
 13800  
 1220

25  
 100

264  
 15  
 9

2300 on rd to Mt. ...  
 2330 on rd to Mt. ...  
 FOL 315 2330  
 345 2330  
 415 2325

2300 on side of hill N55E 28° dip - upper bed 6  
 2330 on side of hill N55E 28° dip - lower BH  
 2330 on side of hill N55E 28° dip - (2320 level) 2:45  
 Fork 3:15 2330 - A  
 3:45 2330  
 4:15 2325

May 12

2130, 2730 8 AM  
 3:50 to 5:00 am at 3:50 - 5:00 - 200  
 5:00 - 5:30 am at 3:50 - 5:00 - 200

-3400 8:00 - top of peak to hill N55E 28° dip  
 -3475 9:20 " " " " " "

Time	D.A.	Elev	Time	Remarks
0	N55E	3440	9:20	Top of peak
240	S50E	3485	9:30	Sharp drop - 10' - 15' - 20' to 100'
264	E 1	3455	9:35	East Dip - 10' - 15' - 20' to 100'
450	S60E	3375	9:45	- 10' - 15' - 20' to 100'
				- 10' - 15' - 20' to 100'
				Plan to 13p. beyond
				at 5:30 275+00
				Very little forest in area -
				at 7:30 - 10:00 - 12
630	S45E	3375	10:05	Top of hill - 10' - 15' - 20' to 100'
				then on road to 10:00
710	S50E	3360	10:25	- went ahead, 11:00 am floor has looks like Benton but could find no fossils

P-2.08

$$\begin{array}{r}
 153 \\
 2.5 \\
 \hline
 795 \\
 310 \\
 \hline
 357.5
 \end{array}$$

17  
37

860 S75E 3710 1040 ...  
 965 N 3420 1040 ...  
 ... but much fine sand  
 ... at ... creek to  
 NW

\* Note absence of Mn float in 856. along ...  
 here beds be  $\pm$  & presumably ...

865 S75E 3410 ...  
 965 N 3420 10 ...

\* Absence of thin floor in D.S. along line ...  
 here looks like ± & presumably (judging from elev.) are underlain by conglomerate clay [B] ...  
 mine ...  
 close to abundant charge - ...  
 concentrate ore? [judging from Stamp area does not seem alter to clay at high levels even when overlain by full ± thickness of D.S.?]

1120 N15E 3380 11:05 ... possibly ...

- 3450 11:15 - D.S. with large conc. stream floor
- 3510 11:20 - D.S. on creek - firing & foss.
- 3400 creek at trail 11:25 - creek 1.5-2m deep

1225 spring issue 3430 also trail 35 ft = ...  
 Ton?

- 1340 N10W 3430 11:40 - descent ahead
- 1375 N10E 3420 11:50 - gully - deep pit along trail here
- 1547 N15E 3470 11:55 - high pt. - descent ahead
- 1647 NE - " " "
- 1875 E 3500 12:05 - elevation? appearance here?

$$\begin{array}{r}
 2270 \\
 1120 \\
 \hline
 1150 \\
 2.5 \\
 \hline
 5750 \\
 2300 \\
 \hline
 25750
 \end{array}$$

$$\begin{array}{r}
 270 \\
 250 \\
 \hline
 13500 \\
 5400 \\
 \hline
 67500
 \end{array}$$

$$\begin{array}{r}
 3750 \\
 3600 \\
 \hline
 45
 \end{array}$$

2155 3555 12.5 - located about  
 on Clinton E. road  
 and no good traces  
 2270 NE 3535 12.13 - pub. as - some iron  
 sh. + some gylite  
 but probably in Clinton

35  
45

2155 - 3555 12 - - down into  
 2270 NE 3535 12 31 - some glacial  
 2475 E  
 2785 3620 1245 and CCC. Final total  
 5001

Frash { 1145 - 3550  
 { 1245 - 3600  
 { 1245 - 3620

checked 1145 - 3550 at 3780  
 check on top but there is large  
 masses of - from SF to - at least  
 - 270 - 650 ± only  
 5635 down at 2475 - only 450 m  
 especially in case on distribution [2]

0/0 m within N80E, 55 good crop  
 3635 40 to 270 - CCC Sta 333+50

1.7 1/2 - 1/2 of - 1/2 of - 1/2 of  
 2.3

3.15 CCC total to Boston = 3800 - 220

P212

1400 3245 250 - comes from further  
 from pt - high stored quartz, etc - 150 ±

4760  
 3872' No come in it - 5100 3005 - small amount  
 - fresh is with com. - flow

2114'  
 1875 3080 - 3.1 - Hl. 116000 2150E  
 1880 3075 " Down - left hand side  
 2072'  
 2705E 2650 - 3.3 - Down 116000 32 SE  
 at heavy bench mark below  
 has a level sign above  
 2265 2540 340 road heavy chert - the  
 probably about here  
 2394 2345 350 RR bed - some of the  
 road work

2200 Section ends 1161  
 [-60' trough]  
 240 = 2340 } 10' alarm bridge  
 340 2355 } Foch

Down to spring (116100 E)  
 - The ground is not very flat - 1/2 in water  
 to 1/4 in water - Down from 8' above rd. bank  
 - The bed 3.5 m from edge of car bridge  
 - In mineral, long Tangent Rd  
 - a pit of red soil in the bed - about 10  
 m long

May 26

Down to bridge 2150 - 50 - 8 AM  
 Car train on at the cross 1161  
 0.0 m. end of tunnel at near Harker 2155 - 9 AM  
 0.1 " 2200 gage - down RR bed  
 0.48 " 2515 - 9.00 water tower, low iron  
 3.8 " end heavy iron



on rounded heavy. Also at 8.5 at 2810  
 - in the place of *Republi...* on part of the area  
 - also a very pebbly st

122

1.2 3380 7:25 *...* - a stop  
 1.6 3370 9:30 *...* - a stop  
 1.72 3400 9:45 *...* on a road with  
 in direction - see old - *...* - *...*  
 N35° 20E *...*

1.78 3420 *...* N70W 4 N - on road side  
 white *...* - looks like *...*  
 the 80 paces beyond that

In about 172 *...* *...* *...* *...*  
 diponably in place in it *...* contain many pebbles  
 of *...* - *...* *...* *...*  
 some *...* *...* - some of *...* *...*  
 core of *...*

stop beyond *...* *...* N65.5° S N

1.82 3485 10:55 *...* with  
*...* *...* This is fairly  
*...*

1.9 3490 11:05 { *...* N20W, 11E } good crops  
 { *...* N10W SE } N10W 11E

2.1 3575 11:10 *...* on road

2.15 3630 11:20 N20W 11E good *...* - fine green  
*...* Then bedded shale *...* - good crops. 57

6  
5.8 3  
4.3 3  
1.5 3

2.4	3760	11:25	top of rise - flat lead
2.7	3745	11:30	cont. to Section table (2) diameter reading (cont. of 2)
3.2	3735	11:40	has been coming over level track - slight recent ahead
3.7	3740	11:45	low song
3.56	3750	1:35	off to east
"	3965	12:10	" "
3.8	3925	12:40	position on rd
4.0	3525	12:45	clear road
4.15	3780	"	bottom of song - cont. section rd
4.33	3825	1 PM	from the song, push road! Section at $\pm \odot$ - probably on place of
4.5	3875	1:10	det. Fe gate on section - some 1910 fence
5.03	3720	1:15	down 2450 to, have whole set of small main size
5.12	3700	1:30	gully - rd. 3' dia. first heavy
5.2	3670	1:40	det. 10' dia. rd $\pm \odot$ gully 10'
5.21			det. 10' dia. rd - into spot 3' dia. rd
5.25			N15W, 6W - 10' dia. rd, 5' dia. rd?
5.46	3620	1:55	N85W, 5W - better road. dip up 52° - rd. 10' dia. rd - and 10' dia. rd - $\pm \odot$
5.56	3550	2:00	bottom rd. 10' dia. rd - gully
5.62	3600	2:05	cl. 185W 10' dia. rd. white rd.

5.73  
356  
2

5.73 3620 200 Station 1180E, 55

5.86 - 3630 2120 - end of CFT - Dist

Same 1/2 pt beyond old iron plate at station 1180E  
15' west - camp 51

5.73  
 5.56  
 3/1  
 2

5.73 3.20 2.1 157E 2

5.86 2.30 2.20 - end of 200 1911

one 1st pt beyond old iron pit is 3' low. 7.7E  
 5' ...

2.2

Prof	D.A	Elev	Time	Remarks
0	S47E	3590	2.31	200' ...
400	"	3635	2.45	...
535	"	3640	2.55	...
600	S40E	3525	3.00	...
1075	S75	3500	3.10	...
1300	"	3485	3.15	...
1800	"	3375	3.30	...
2100	"	2975	3.3	...
2200	S	2880	3.45	...
2223				By ...
2270	S30W	2830	3.50	...

2315 40E 2880 4:14 in ...  
 2400 S  
 2430 20W  
 2506 S20E 2780 4:15 - on ...  
 2824 247E 2775 4:18 in valley  
 3:15 " 235E 2700 1000 ft  
 3728 25E 2715 4:22 in H.C. creek  
 - on ... 2395  
 at 4:45 (= Foch 2415)  
 3:50 24:10 - Foch, same place

May 1911  
 2000

19.11  
 2255 (= 2794 E) 9:15 AM  
 3910 at top at 9:00  
 2880 on ... - had 2020 W.

Pace	D.A.	Elev	Time	Remarks
0	N20W	3500	10:14	- in draw on ...
500	N40W	3405	10:15	- all ... hole ± 0' ...

156 1130 3230 10:20 gully all way from road

170 1750 3140 10:40 - on top of steep slope  
- no Anthoni pyrox - no  
- slope all Clinton  
- flat - apparently from S26E  
- of white house

possibly  
clinch

~~3086'~~  
1220 " 3030 10:40 N27E, 18NW - heavy  
- ss, probably Clinton  
- white quartz - stained  
- irregularly red & brown  
- top of heavy slope steep  
- same slope N40E, 24NW

3461'  
368 " 2980 10:50 N35E, 24NW - same  
- ss

141 N

123 3795'  
~~1500~~ N15E 28S 11:00 Red Clinton N55E 25NW  
- conglomerate ss, thin  
- white quartz

1594 N

1650 17200 5810 11:15  
- gentle slope - blue

1800 18300 5715 11:20

1885 N65W 2665 11:30 Mn. loc. 4 present day  
with bridge

1980 N50W  
2040 N70W

N61E, 45NW

216 - N50W 2560 11:45 Obs. of tower from  
quadrant west of rd  
- at elev 2540±

2275 N50W - Obs of first crop of water  
tower at 310± to N of 2316p  
my trail - on creek

2475 N30W

2675 N50W 2730 11:55 - at rd in cleared field  
2700 N30W  
NE of Xing

3.4 " X-Density bed  
3820 - 2310 12:15 water on road just below  
rd - very close here

2315 at 12:30 on rd (= 2340) each  
10.45 = 2330  
11.45 = 2340

Upper ground house = 0.0  
lower " " = 1.5  
Camp Rol. ent. 1.71

Water from Tower 3920 / 25



Gully of NW - Rd Mt

- N. 505 ft 4.15

0 N28W 3920' 1:11. In creek 4.10  
Crest

1910 N

265 N20W 3650' 1:20 - bottom of gully

885 N28W 3505' 1:35 no crepe - all slabs  
flat gully bedrock

2884' 1145 " 3440' 1:50 N47E, 6NW - white  
gtytic in a layer

3168' 1252 " 3400' 1:55 S + - in bed creek

N37E, 10NW - 5'

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

3896 1540 " 3270 2:20 N47E, 13 = Clinch?  
- gray gtytic in some  
stained with red gran in  
heavy beds up to 2' thick  
- 12' in R bank  
from stream level

3990' 1777 " 3270 2:30 N55E, 26NW - white Clinch

1724 3595 2:45 Clinch 45E, 24NW  
- white gtytic

4544' 1796 N35 2970 3PM N46E, 30NW - Clinch

1864 2890 3:15 white cg - see exp  
- chert

1936 - Clinch gully boulder  
13

Page  
- 2.53

4959'  
 1972 2700 3:30 N45E 55NW - Church  
 2100 2740 3:30 same as above in the  
 lead of Church along stream  
 - slope flattens out - red  
 Clinton part comes in  
 from sidewall - no  
 Sumatra in this gully  
 5465'  
 2160 " 2705 3:45 Red Clinton & back part  
 of stream N45E 54NW  
 2438 N15W low gully to - no stream  
 2750 " 2510 4:15 Down part  
 2865 N10E  
 2900 N45W  
 3030 N75E down to creek  
 3067 N 2400 4:15 on creek - 15m part  
 3340 N65W edge cleared part  
 3580 N15W 2310 4:30 on west bank  
 3750 2330 4:35 on red - 1 mi above  
 Pol. S 7mp 5st  
 = 2340 4:00  
 1:45 2310 }  
 2:45 2320 }  
 3:45 2335 }

May 21 - Tues

Onward to work 2200 (25 H1 8 AM)  
 Tower to go MW 3900 8:30

... old <sup>R</sup> ... pale ...  
 creek ... mile 4.5.

P. 2.4

Point	D.A.	Elev.	Time	Notes
0	N57W	2795	8:40	Rd. at mile 4.5
160	"	2833	8:50	...
225	"	3750	10:19	...
660	"	3710	9:55	...
1000	"	3525	9:20	...
1100				
1257		5400	7:40	...
1465	"	2525	7:52	...
1300				
1457	N55W	3225	10:35	...
1500	N40W			
1771	"			...
2040	"	3025	10:30	N55E, 2500 - 4 miles up
2135	N35W	2825	10:40	N55E, 2100 - 4 miles up
2577	"	2600	11:15	...
3315	"	2400	11:30	...
3675	N15W			Don't see the base of ... in Dings bed 65

263 " 2230 11:05 - stop 1/2 way walk  
- 307 - Rd

{ 2275 11:05 on rd when road about 1/2 way  
= 2320

10 30 2250 2310 (4 5 19)  
11 30 ——— 2320 (2293) } Fork

checked - fork with ch 4 5

2250 = rd

2320 = fork

May 21

2250 11:05 on rd 2310 11:20 2320 11:30  
2320 11:30 on rd

near creek

10 30 2250 2310 11:05 on rd

10 30 2250 2310 11:05 on rd

✓ 10 30 2250 2310 11:05 on rd  
all water in creek some ferns & will  
few pine - 11:05

10 30 2250 2310 11:05 on rd

✓ 10 30 2250 2310 11:05 on rd  
all water in creek some ferns & will  
few pine - 11:05

10 30 2250 2310 11:05 on rd

... ..  
 ... ..

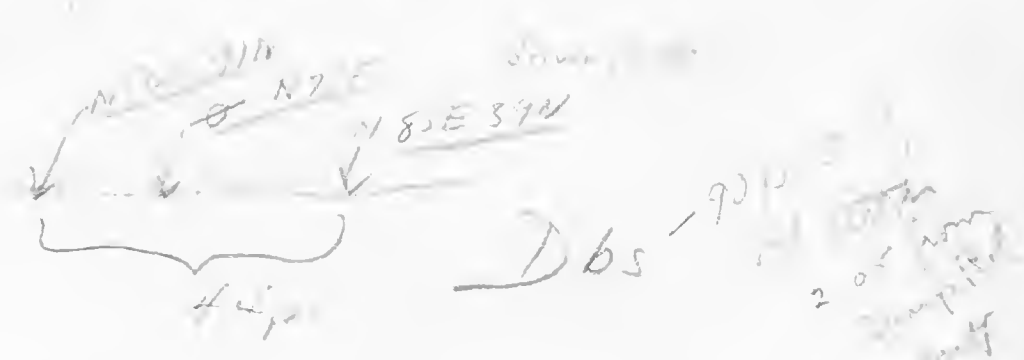
13	D. S.	1981	Time	
0	SSE	3535	11:00	
27	-			
47	SSE			
200	SSE			
385	W			
552	NSSW			
45	NSSW	3425		
65	N	3175		... .. ... .. ... .. - many ... ... .. ... ..
753	"	3025		... .. ... .. ... ..
225	"	3055	10:45	... .. ... ..
216	NSSW	3500	11:00	... .. ... ..
185	N30-1	3550	11:00	... .. ... ..
123	"	2505	11:05	... .. ... ..
1770	"	3125	11:30	... .. ... ..
2181	"	2915	11:45	
2203	NNE			
2447	N45-WS	2860	11:00	
2555	NE			... .. ... ..
2890		2750	12:15	... .. ... ..

Page #  
24

3170 N45W 2580 1200 - no Don in yard by it  
 3325  
 1200 seen

3570 " 3390 1200 N65E 63 W - 2562 in  
 longy bit

1850 - 2354 1200 W of - 2562 in  
 1905 2365 = 2375 F - 1 - W of in of bridge  
 1240 2335  
 1140 2340  
 1210 2370



All in Dings - 2580 37W - 2400 - 2385  
 - under material along longy bit  
 1210 = 2562 in + 2562 in  
 265 p = Dbs - badly crumpled - half of it is 2562 in  
 however in Dbs material with 2562 in  
 but the probably is along from above

332 p - Dbs - still crumpled  
 390 p - 457 W 48 W  
 505 p - under 1000 ft  
 2330 255 2330 - 2405 } 2562  
 2310 145  
 2320 215

May 22 Thursday

2:00 PM. Opened Ch 2205 (-2004) 101 918

N20W 4E - 205 - faint yellowish  
N50E 19SE - 195 - faint yellowish - same

- Visited new washer with dog's 2002 (builder)
- all now filling 4 can (1000) - almost 3 bush load. (cycle water) of dirt give out for of concentrate - 1000 Quarts clean 8-10% of dirt on.

Along rd 2nd center Δ, 15 - 65 N72E 32E 151  
 " " " " " 70 E-W 30

In H. 1st center

Do N50E 36SE

0 2A

0 50E

113 45W

158 N65W

191 -

DIRTY bed

car at 1.1 mi.

Up gully 11500 2nd bridge N25E, 13SE - Don  
 in creek bed 5' or more with - 30 p above  
 remaining of dirty bed 2340 at 12:30  
 - Dirty bed 30' above Don - in 2nd

Do N50E 19SE across H. 1st center  
 at 310 E of where above line 7A  
 N 1 1500m - almost N30 E Bottom  
 300 m from 1st center

