1

Important!
E.O. Ulrich's N.B. 1.
of Sou. Appa. Mts.
has been changed
to N.B. 3. See it.

E. O. Ulrich

Notebook No.1. Aug.-Sept.,1900.

Columbia Quadrangle, Tennessee.

U. S. GEOLOGICAL SURVEY.

9-889

INDEX

Page.

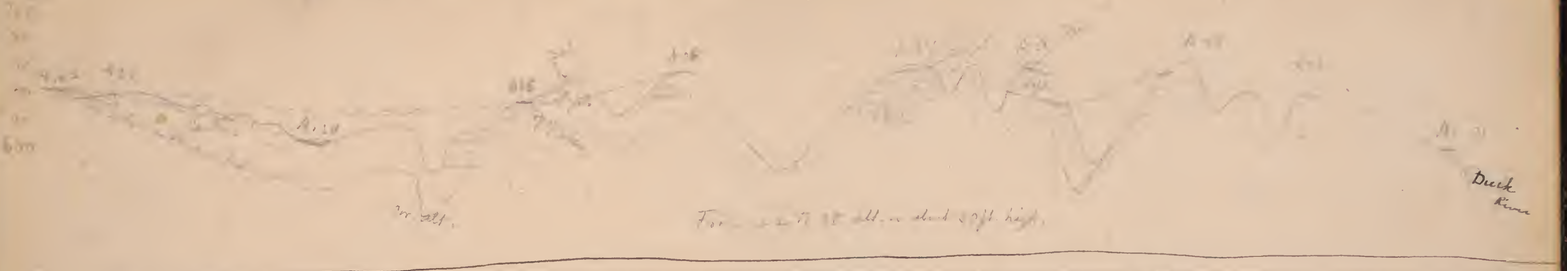
Page.

1

A #1

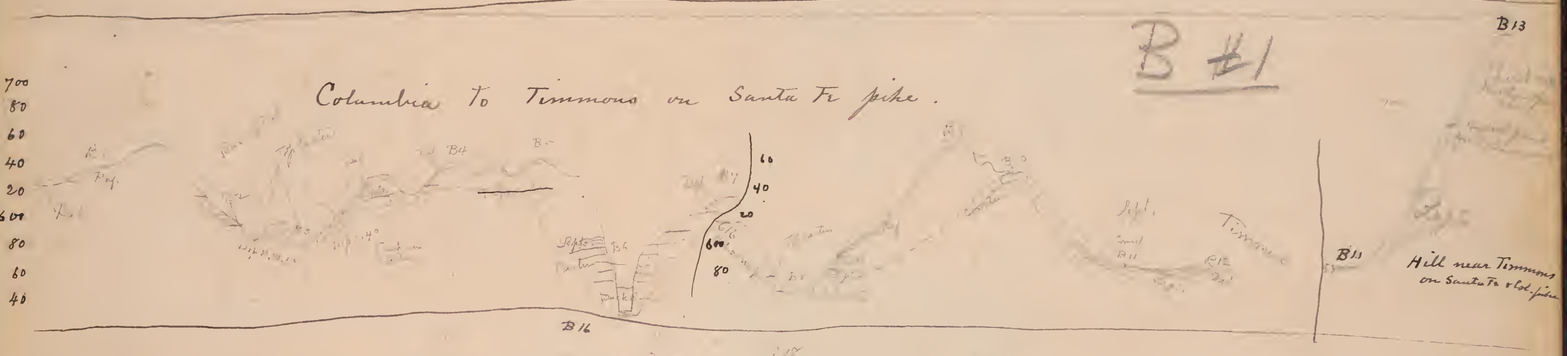

A 14a
East from A 14.
A 20
700
A 15
A 13
A 14
A 12
A 16
A 17
A 18
A 19
A 21
A 22

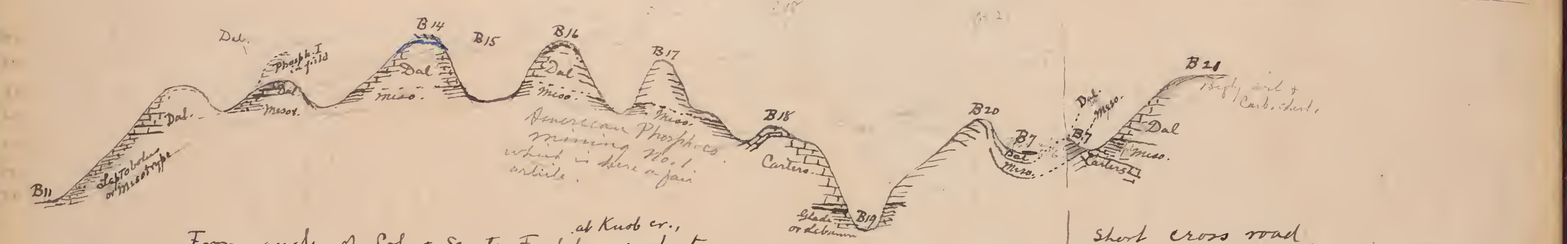
From forks of road directly north of Columbia (4½ or 5 miles) to Columbia.



B #1

Columbia to Timmons on Santa Fe pike.





From angle of Col. & Santa Fe pike at Knob cr., east to big bend of Rutherford creek and then S.W. to Godwin.

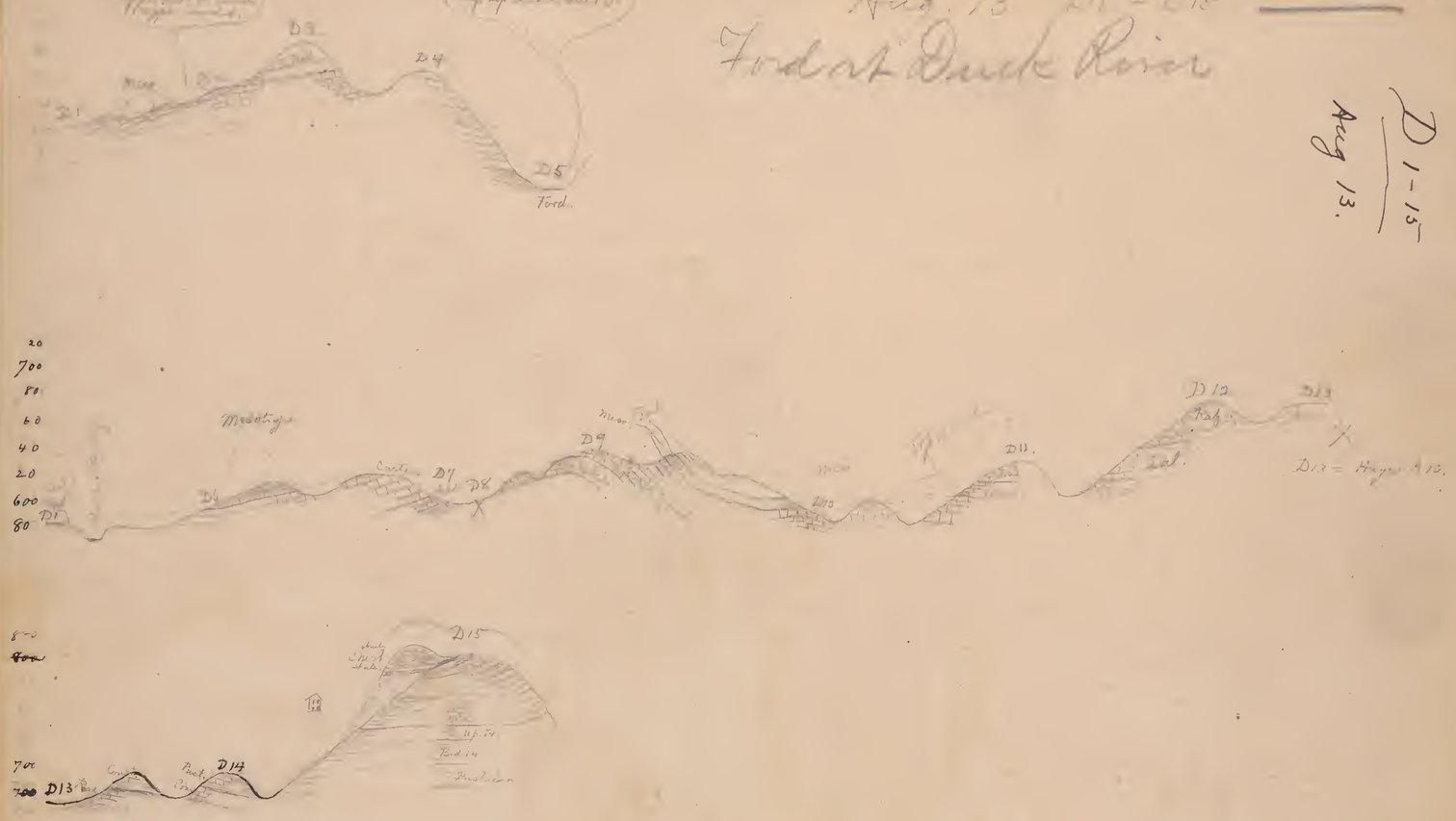
Short cross road north from Godwin.

D #1 4

Aug. 13 D1 – D15

Ford at Duck River

D 1-15
Aug 13.



N. to S. road in Alexander bend from Santa Fe pike. Aug. 10.

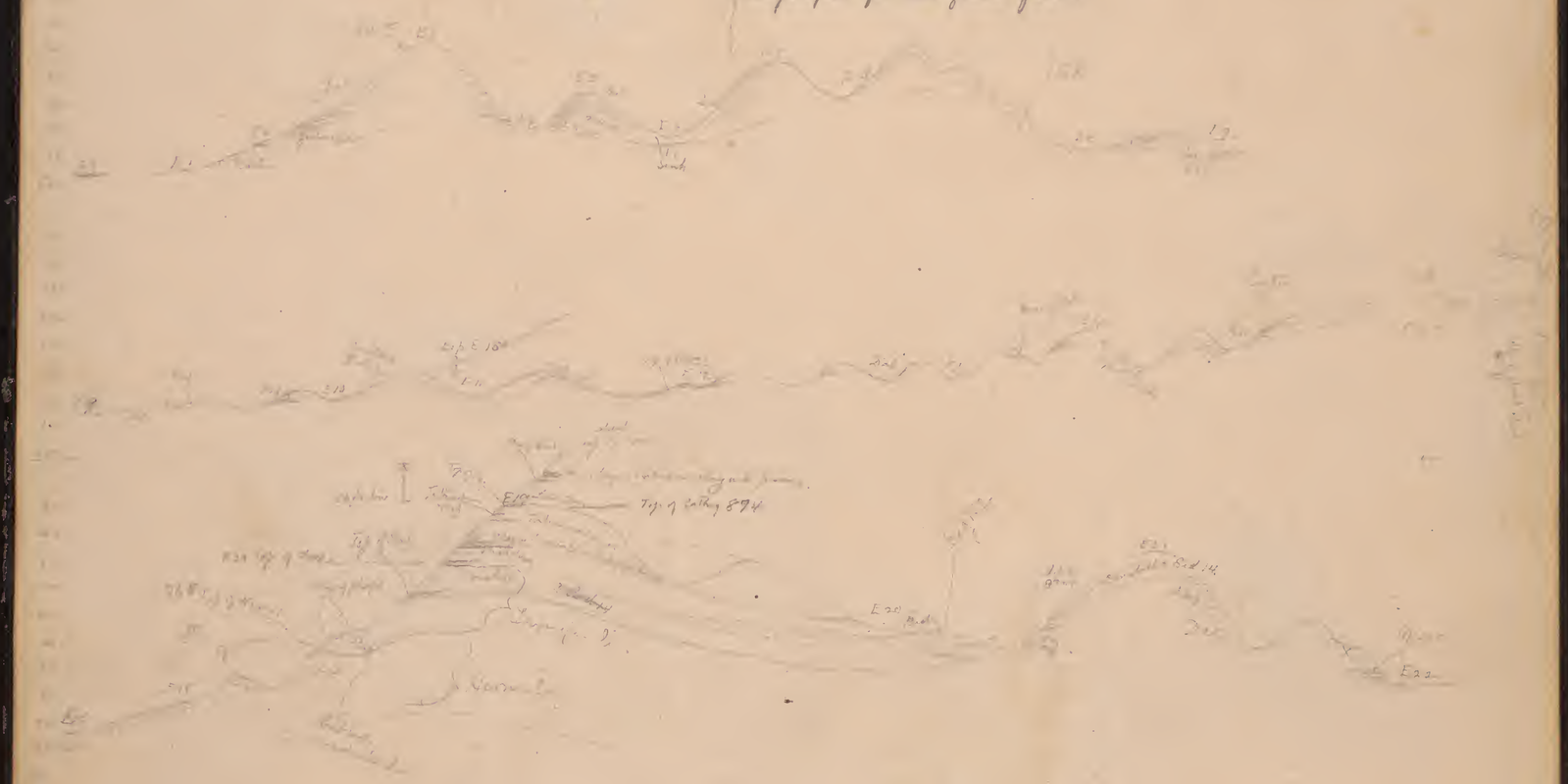
C 1 – 13
Aug. 10.

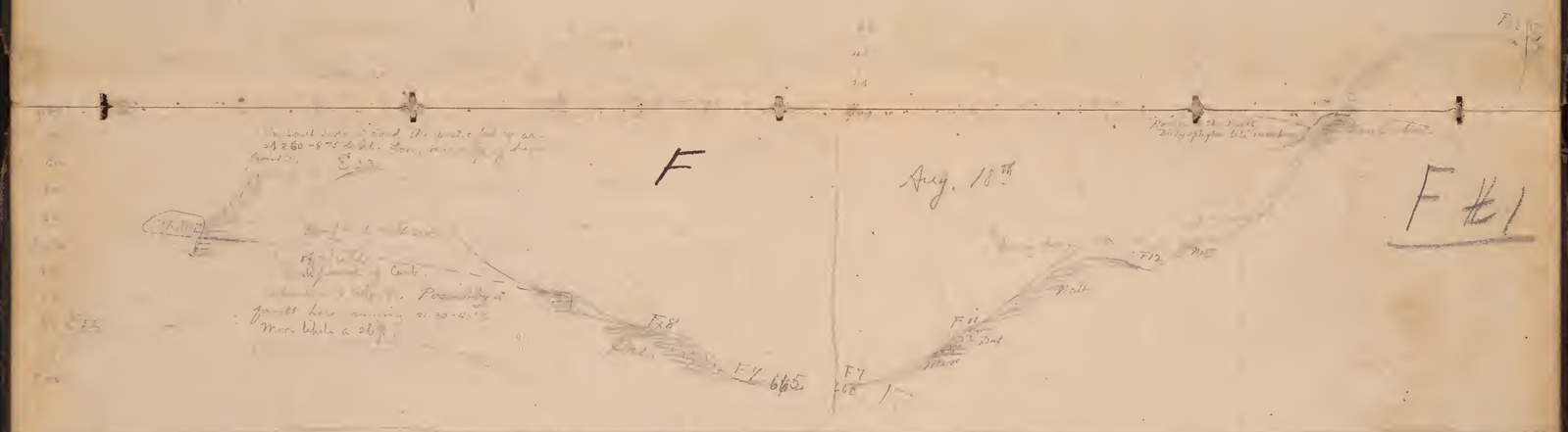
Timmons, on Col. to S. Fe pike, west to Hunters ford. Aug. 10.

C #1

E #1

West + S.W. of road
there are Phosphate
deposits in Vermetage.
Good prospect for that grade of rock.



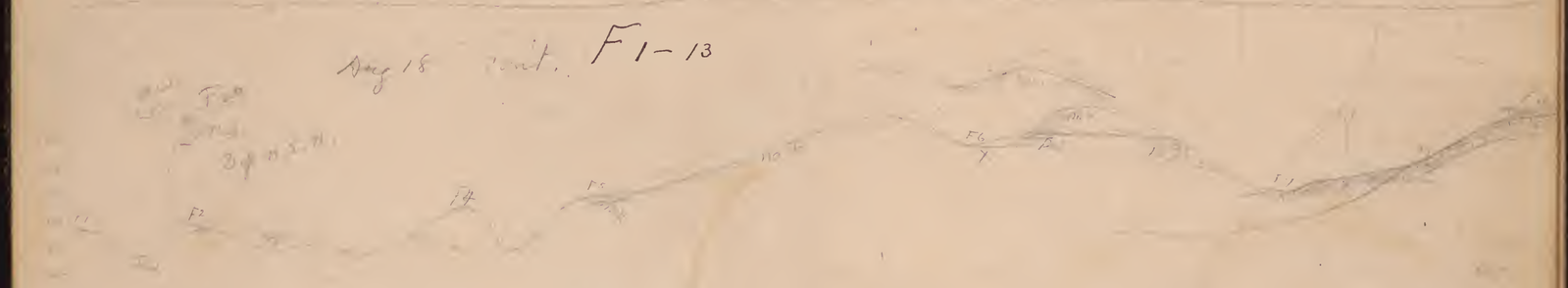


Aug 19. 1894 8

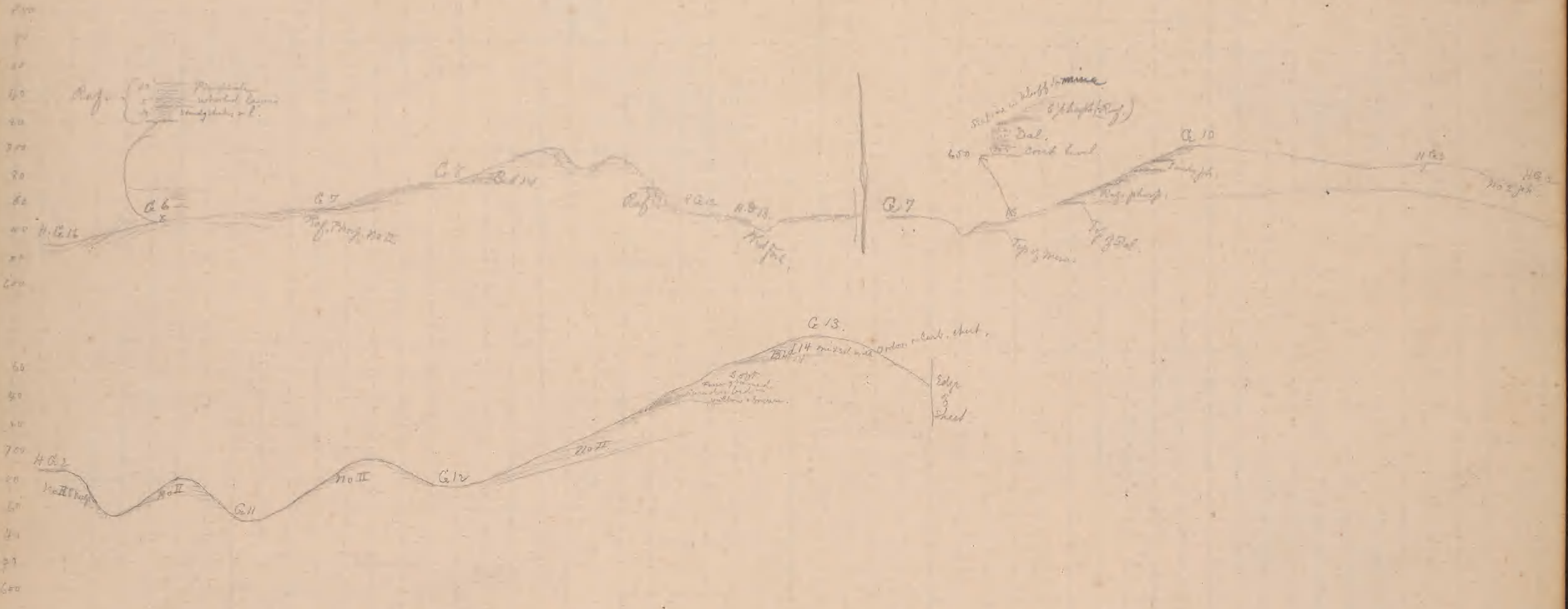
G 1-5
6-13 on p. 8.

G #1

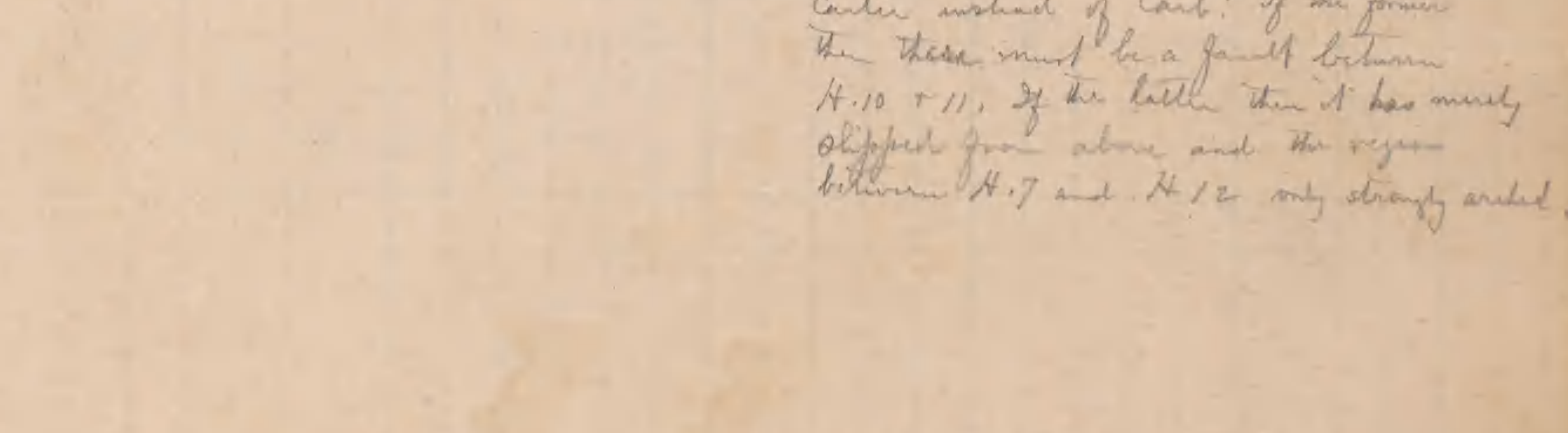
Aug 18 cont. F 1-13



Aug 19th cont. (See middle section p. 7)



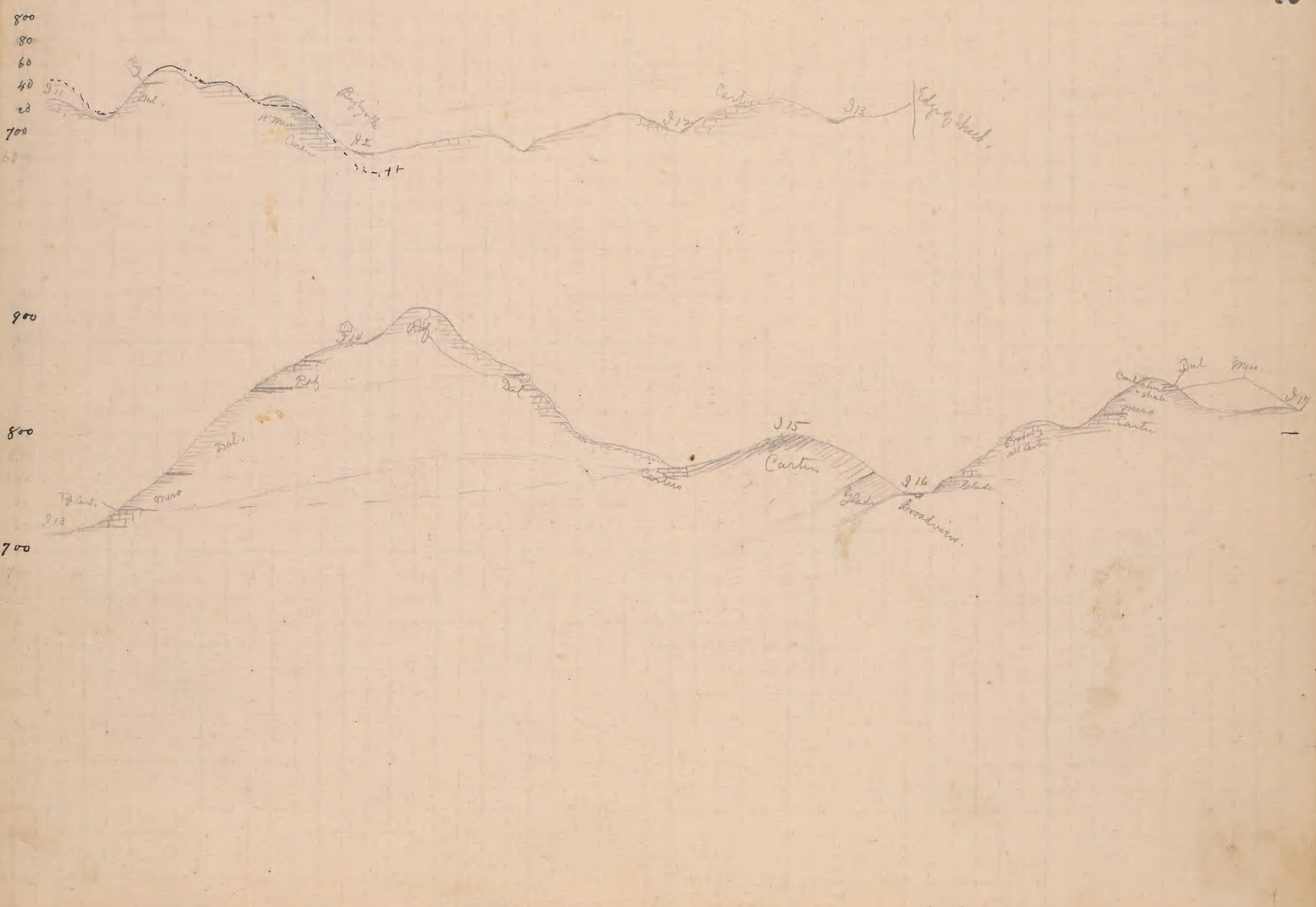
Aug 20

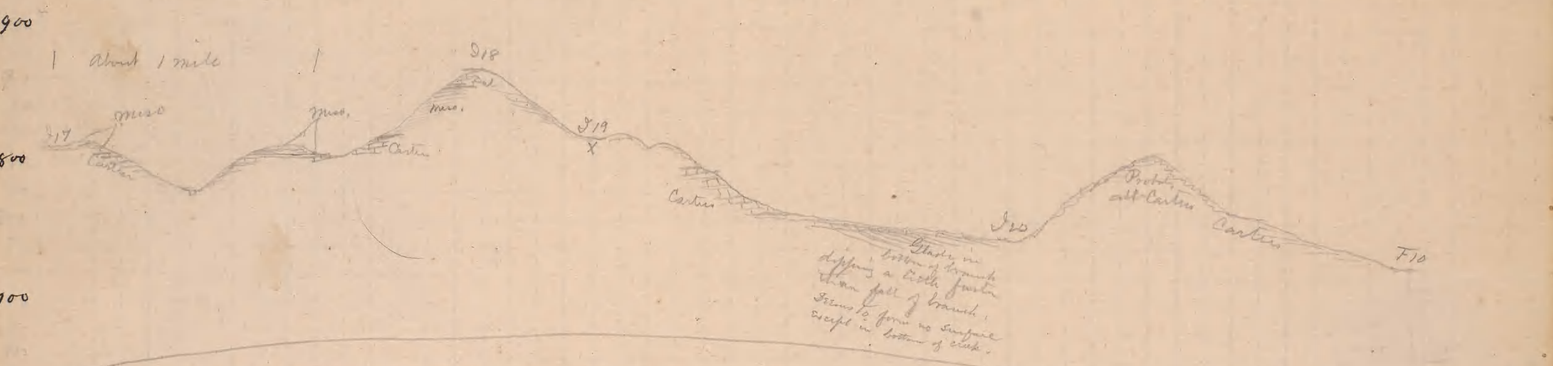


The chert at H 10 may possibly be Carter instead of Carb. If the former then there must be a fault between H. 10 & 11. If the latter then it has merely slipped from above and the region between H. 7 and H 12 only strongly arched.

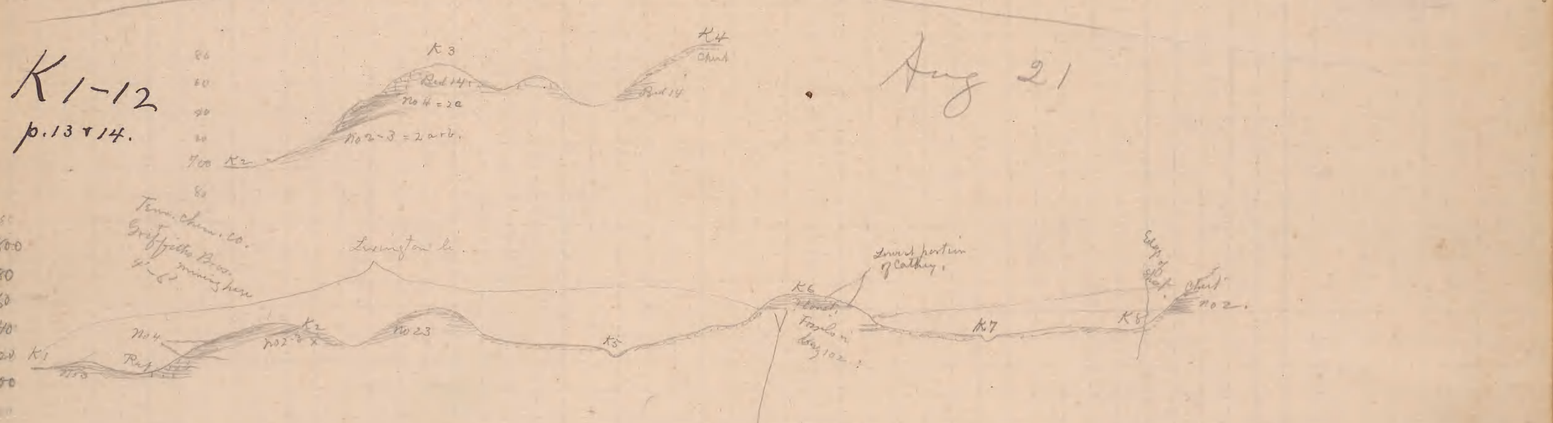
9 cont. Aug. 19.

I - cont.





K1-12
p. 13 & 14.



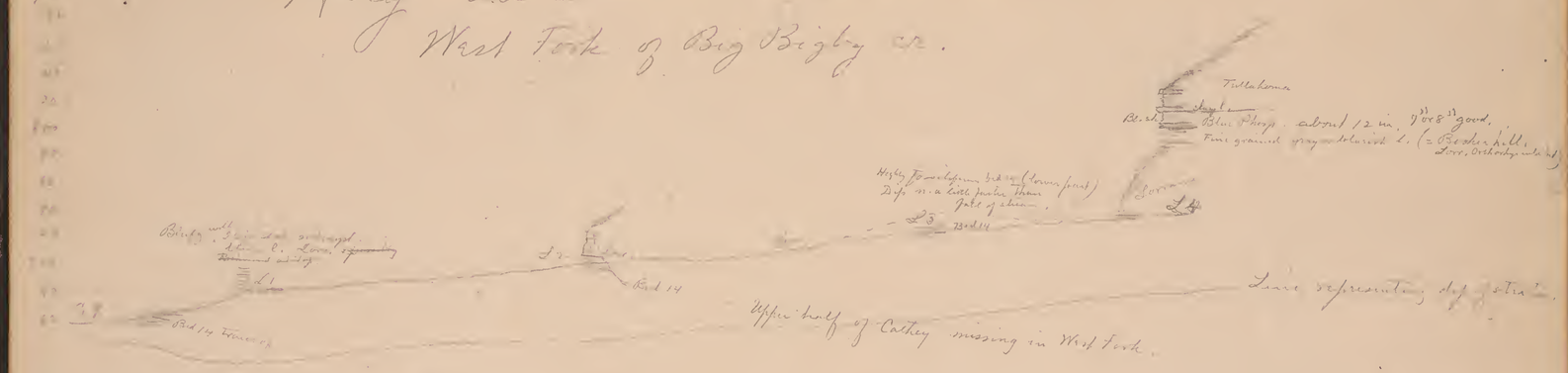
This bed has been observed only west of Ridley, at L8 and M1. Also at E20 & 21, where I took it to represent the Constellaria bed. It probably is equivalent to the non-massive li. of the typical pustulosa bed of other localities.

From F 2 south was a common one high up on E W line.

K 12 800 ft. No 2 photo.

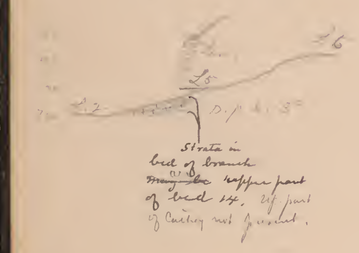
G 2 to F 6

Aug 22nd G 9 – L 6.
West Fork of Big Bigby cr.

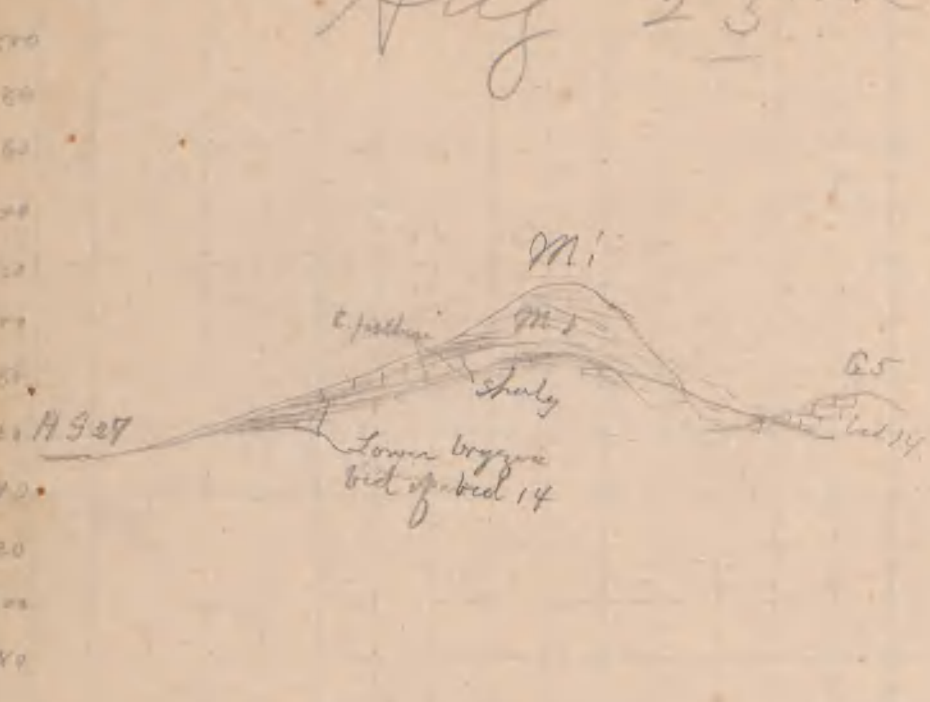


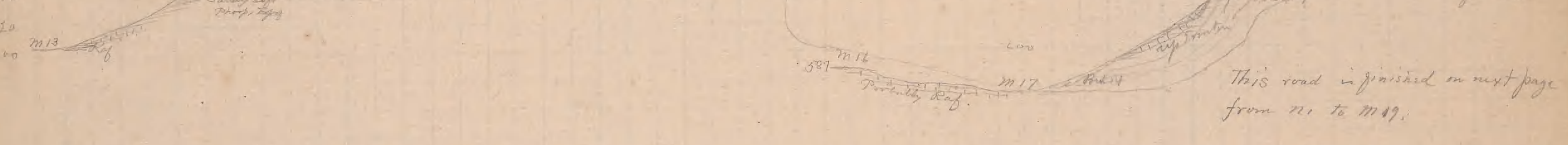
Rain most of the day.

Up Hell Branch.



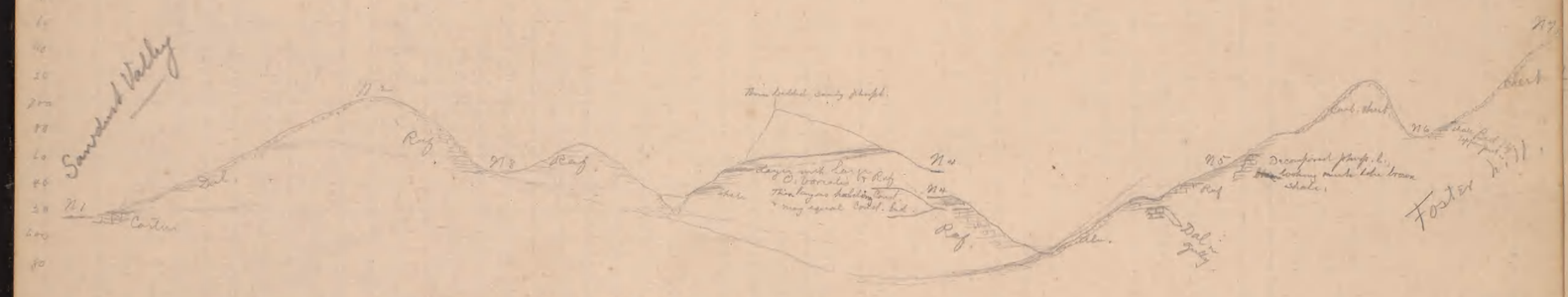
Aug 23rd

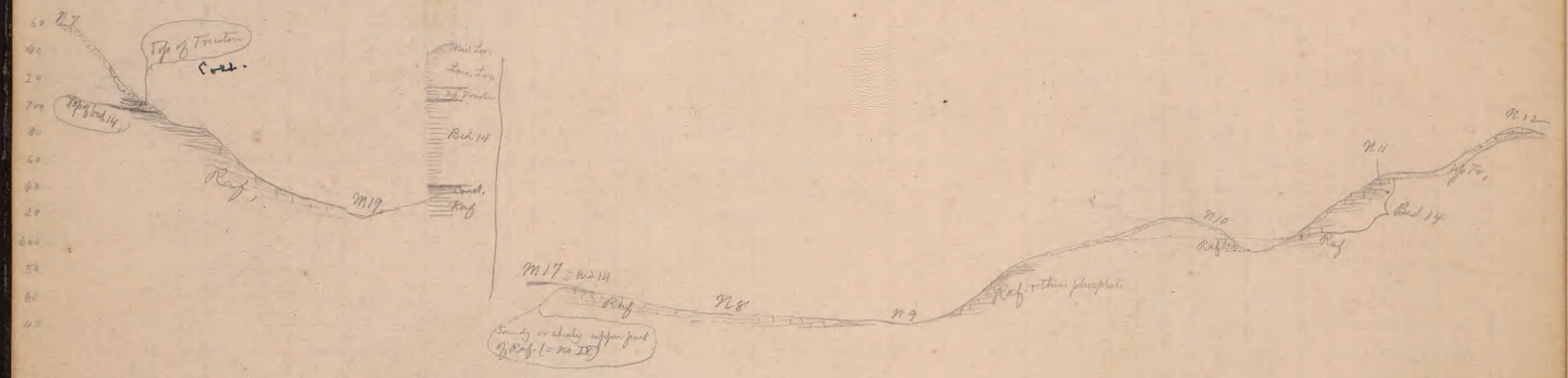




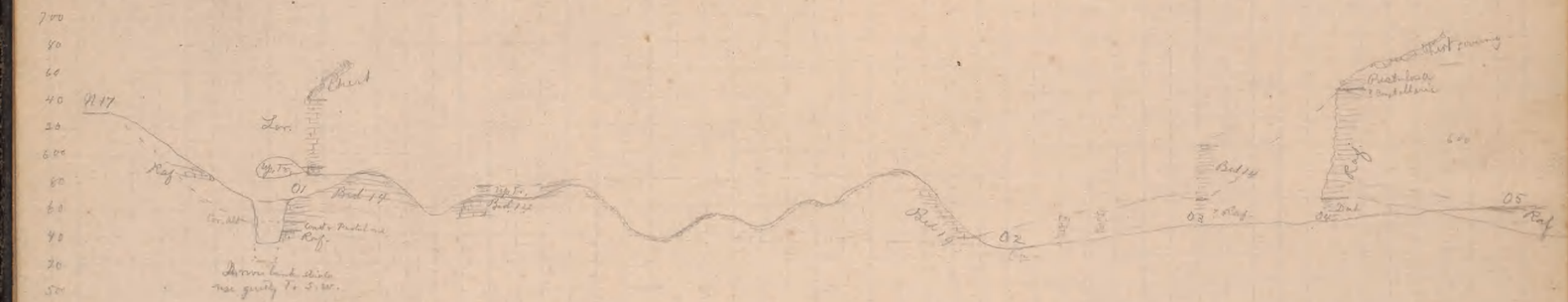
This road is finished on next page from M1 to M19.

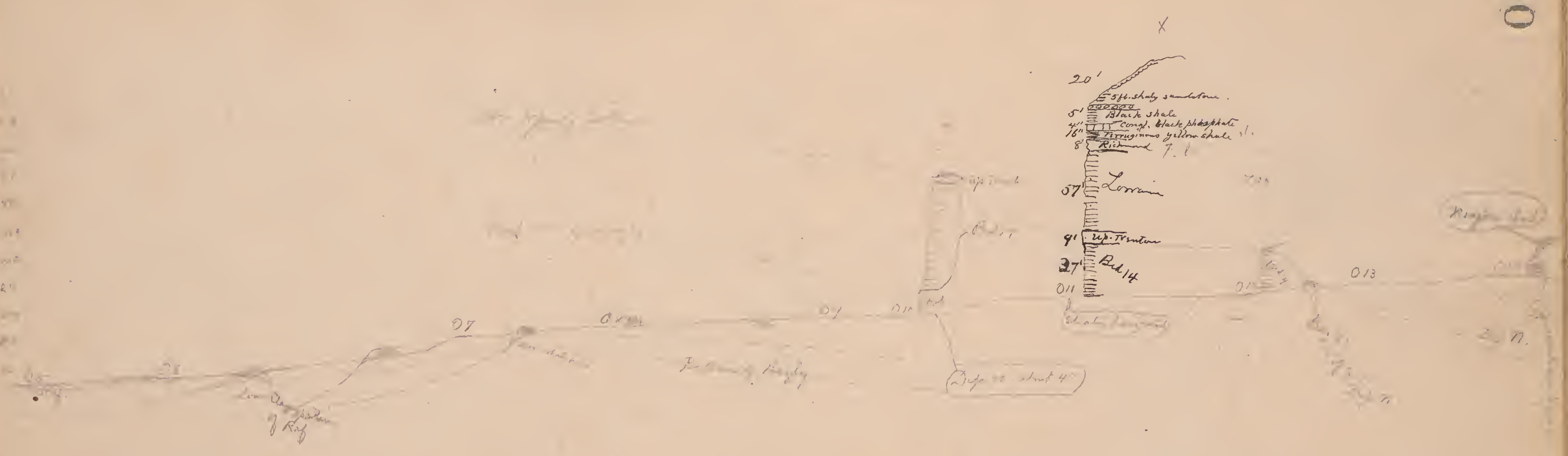
Aug 24

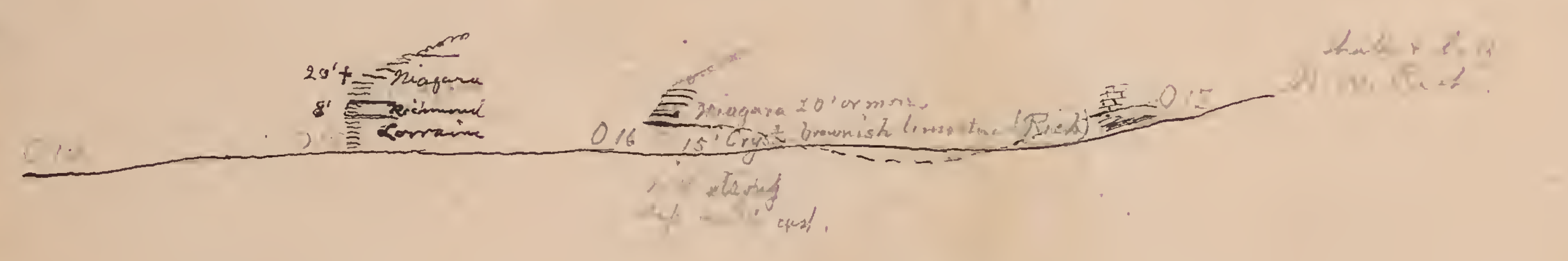


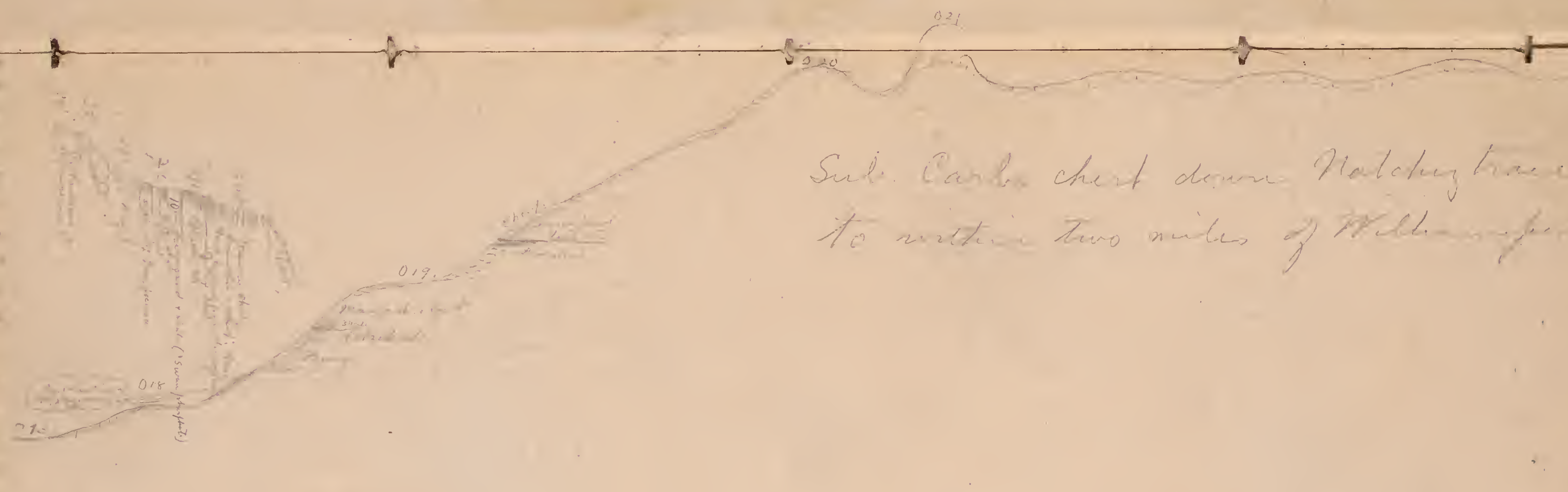


Aug 25. — O1 – 20; Leipers creek.



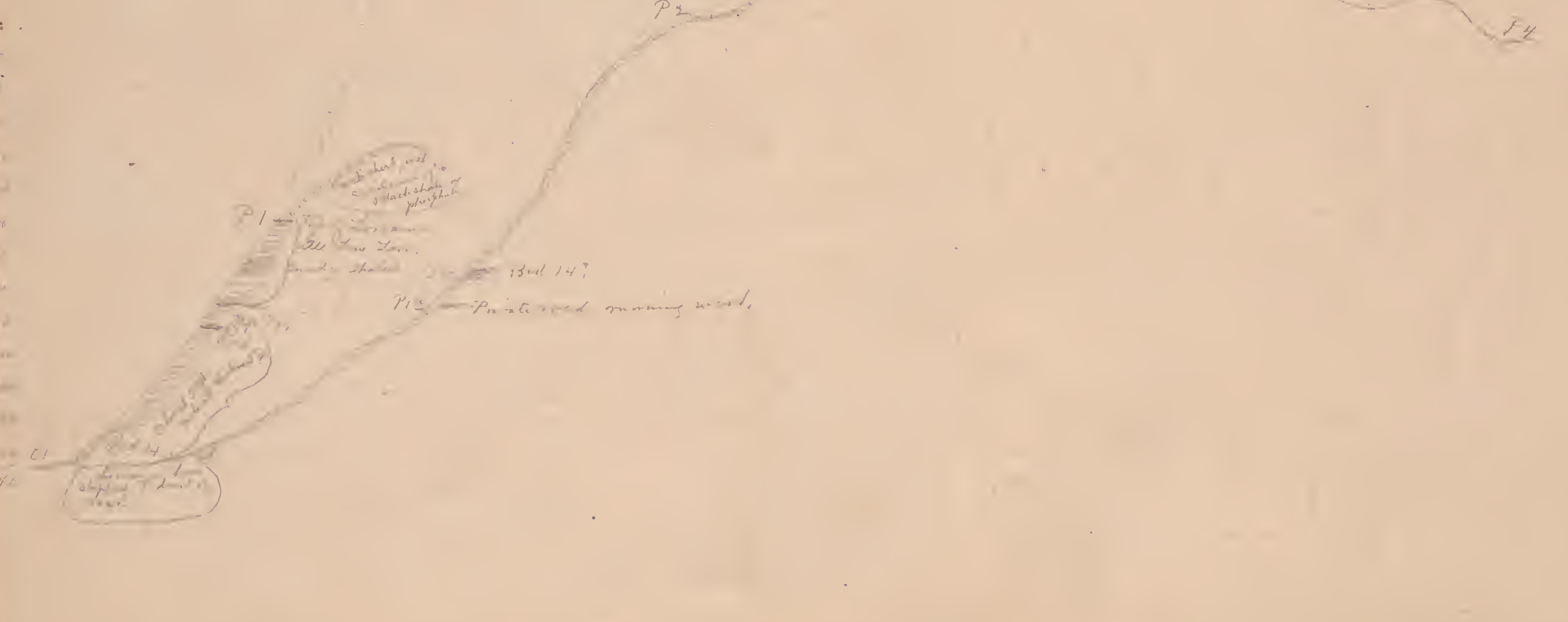


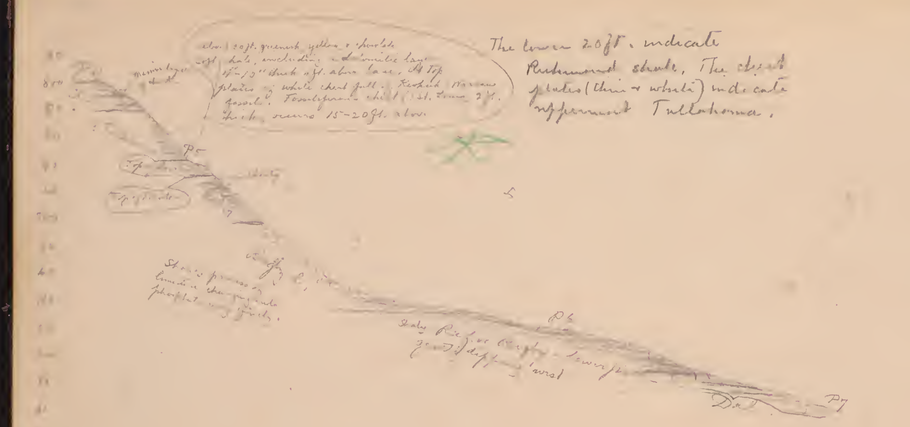


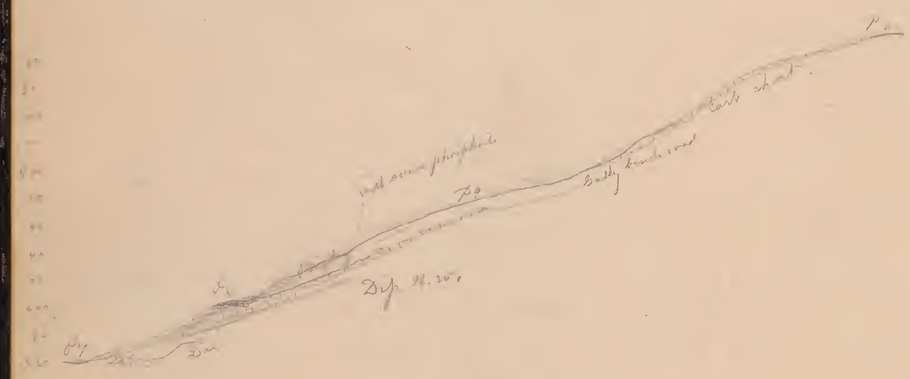


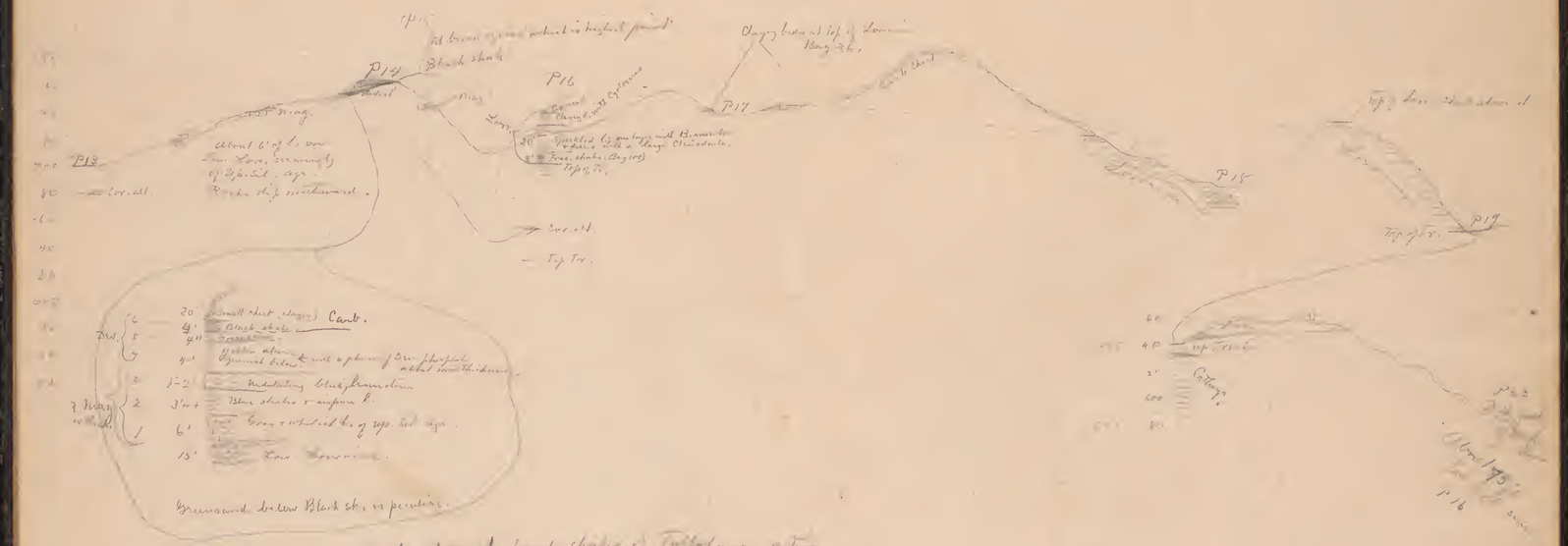
Sub. Carbo chert down Natchez trace to within two miles of Williamsport.

Aug 27





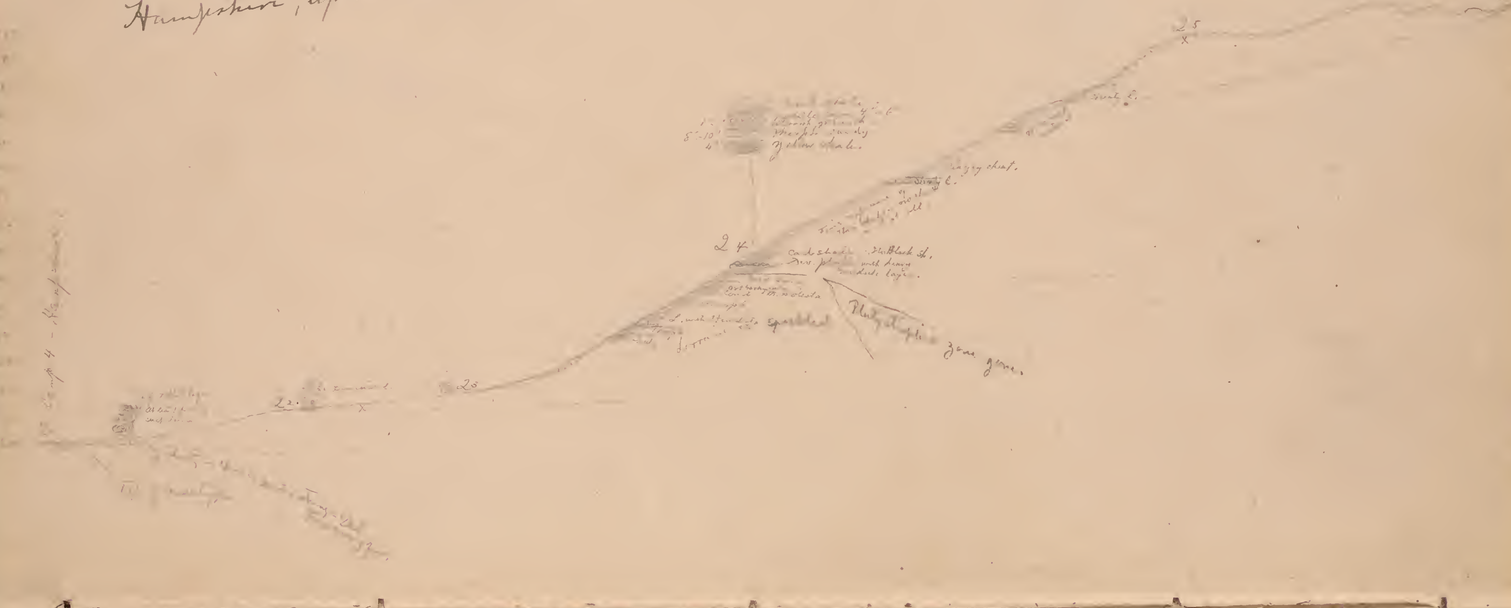




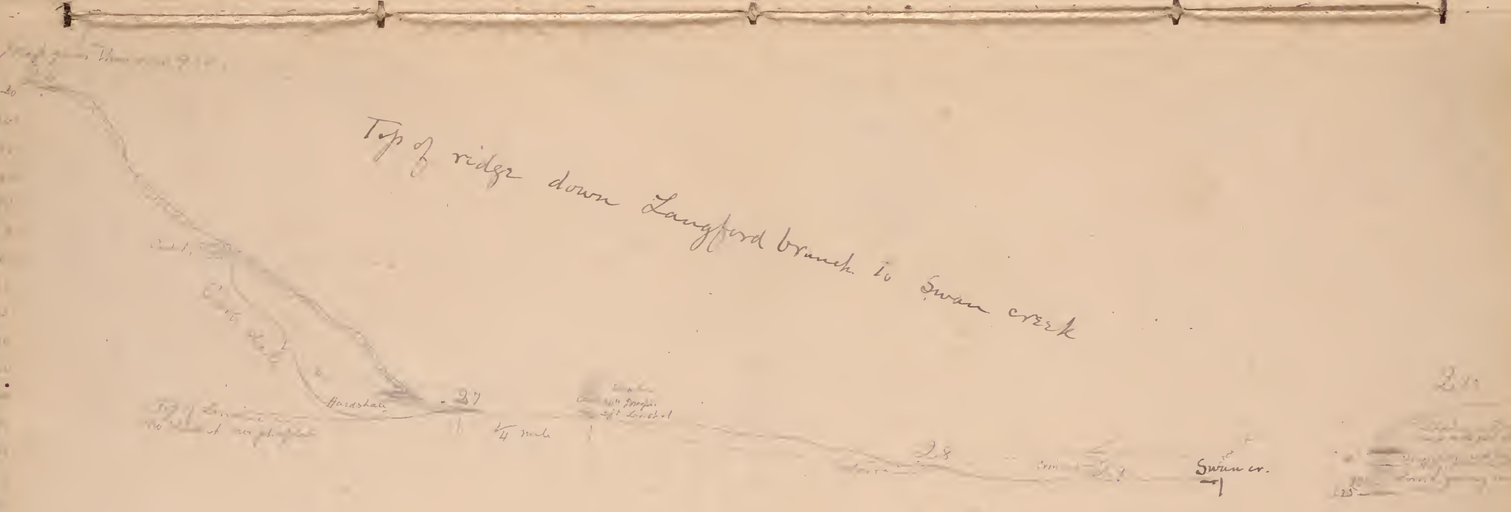
The Black shale here must represent lower shales of Tullahoma resting on Mauvy green shale & band, while the yellow & greenish shale beneath is probably representative. The Chocolate shales represent to Richmond characteristic. Nos. 1, 2 & 3 beneath of these would belong to Richmond (Trenton) instead of Niagara.

Q 1 – 24 (Two days.) Aug. 31 & Sep. 1.

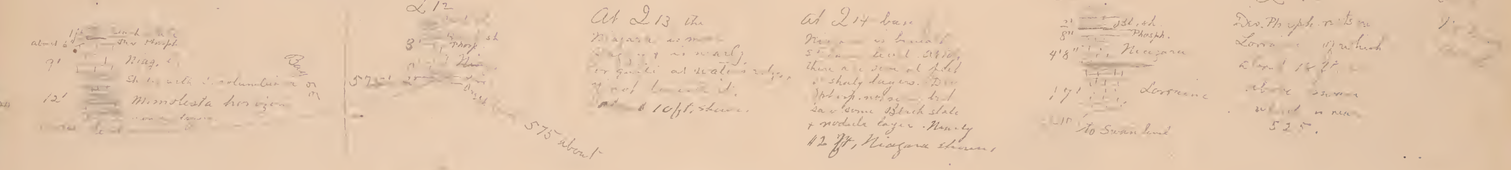
Hampshire, up Mc Clanahan branch, to Top of ridge.



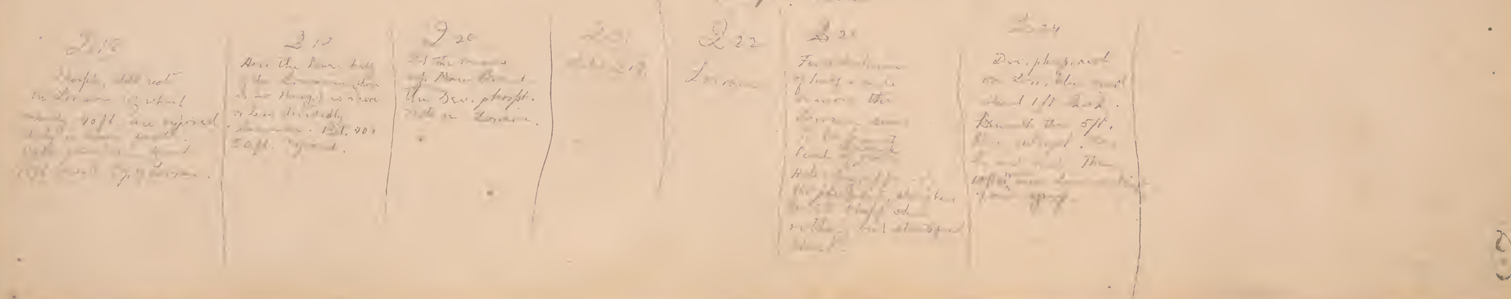
Top of ridge down Langford branch to Swan creek



Q 10 – 21 – down Swan creek.

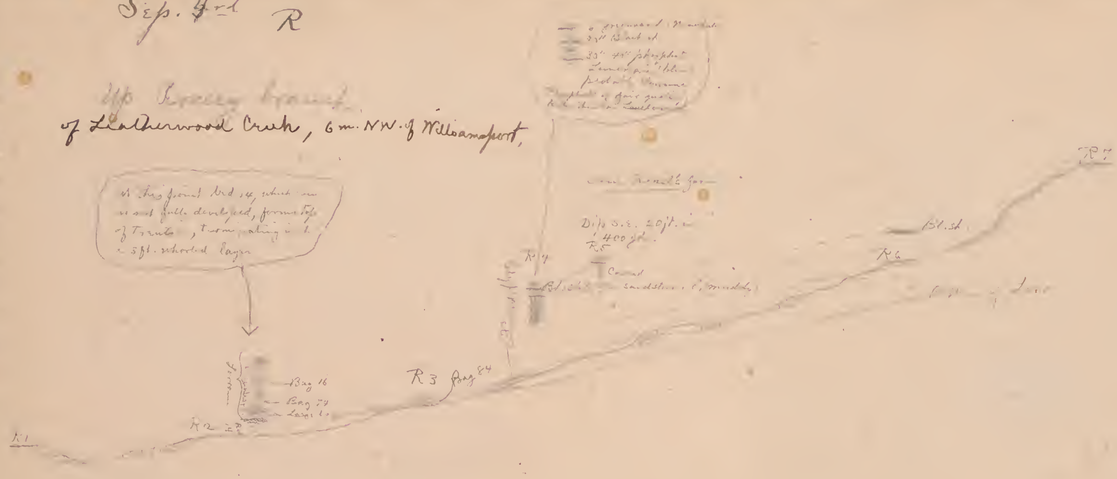


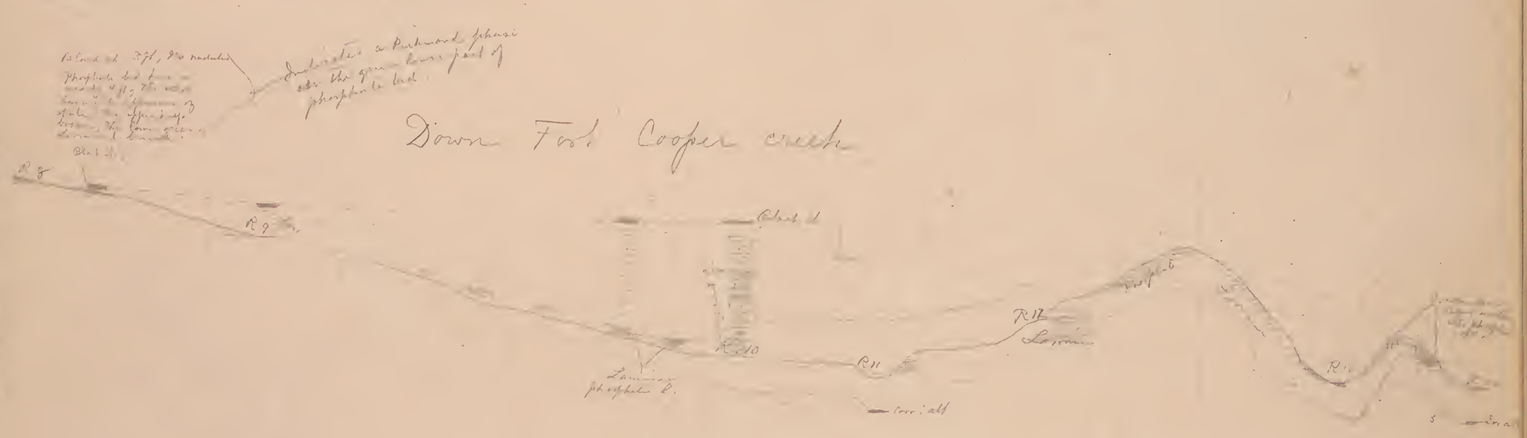
Up Blue Buck creek.

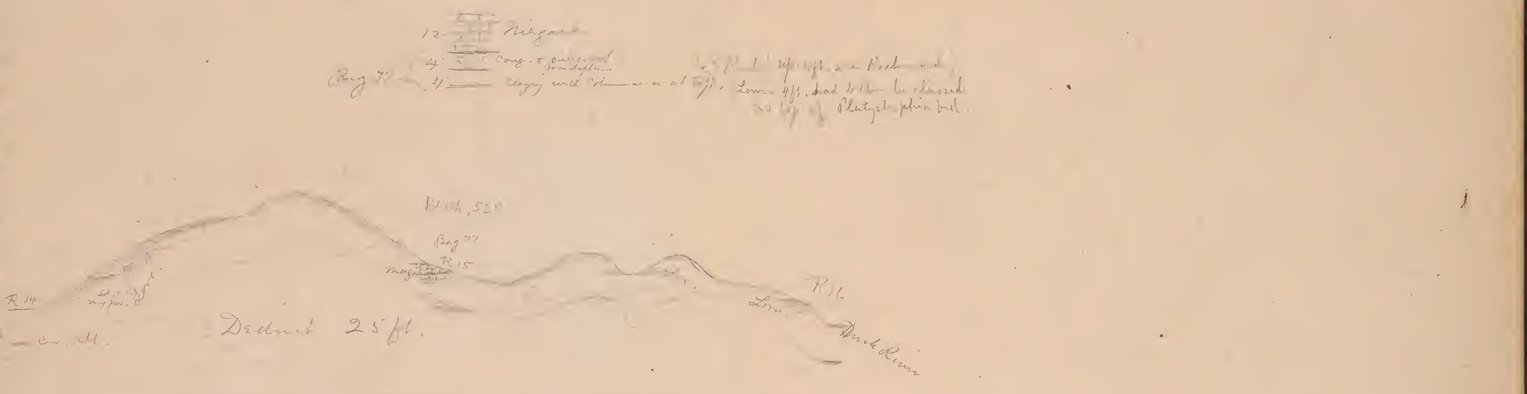


Sep. 4th R

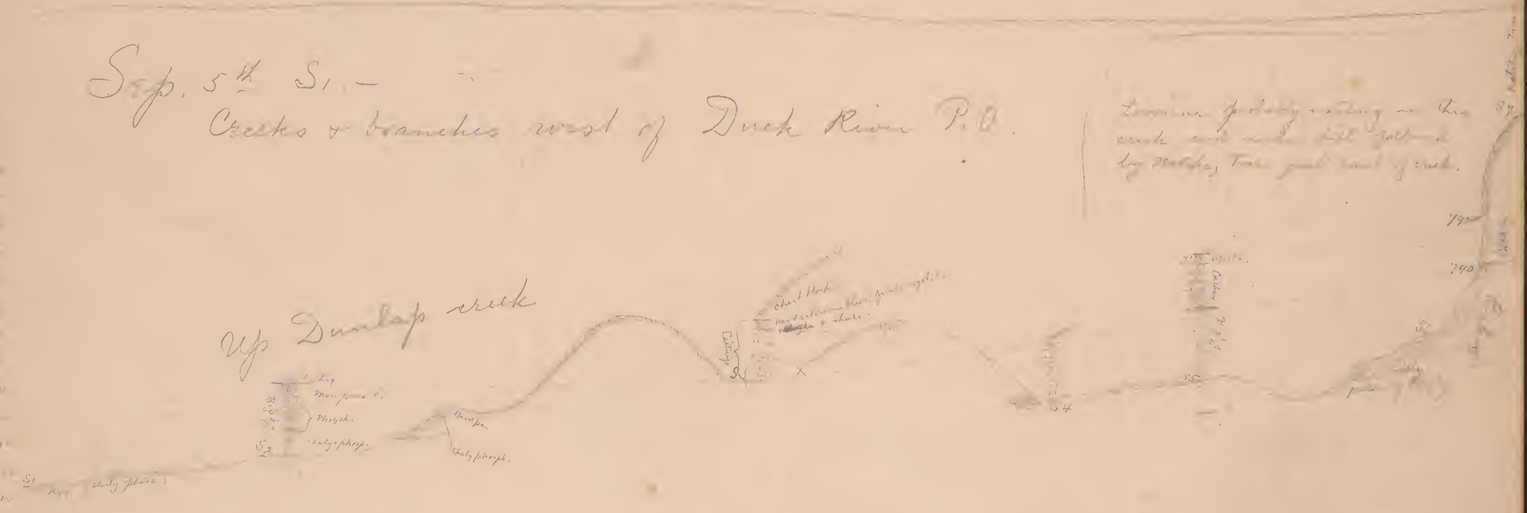
Up Bracey branch of Leatherwood Creek, 6 m. NW. of Williamsport,





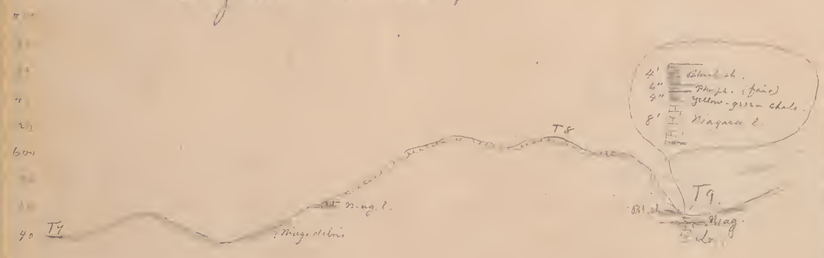


Sep. 5th S1. —
Creeks & branches west of Duck River P.O.



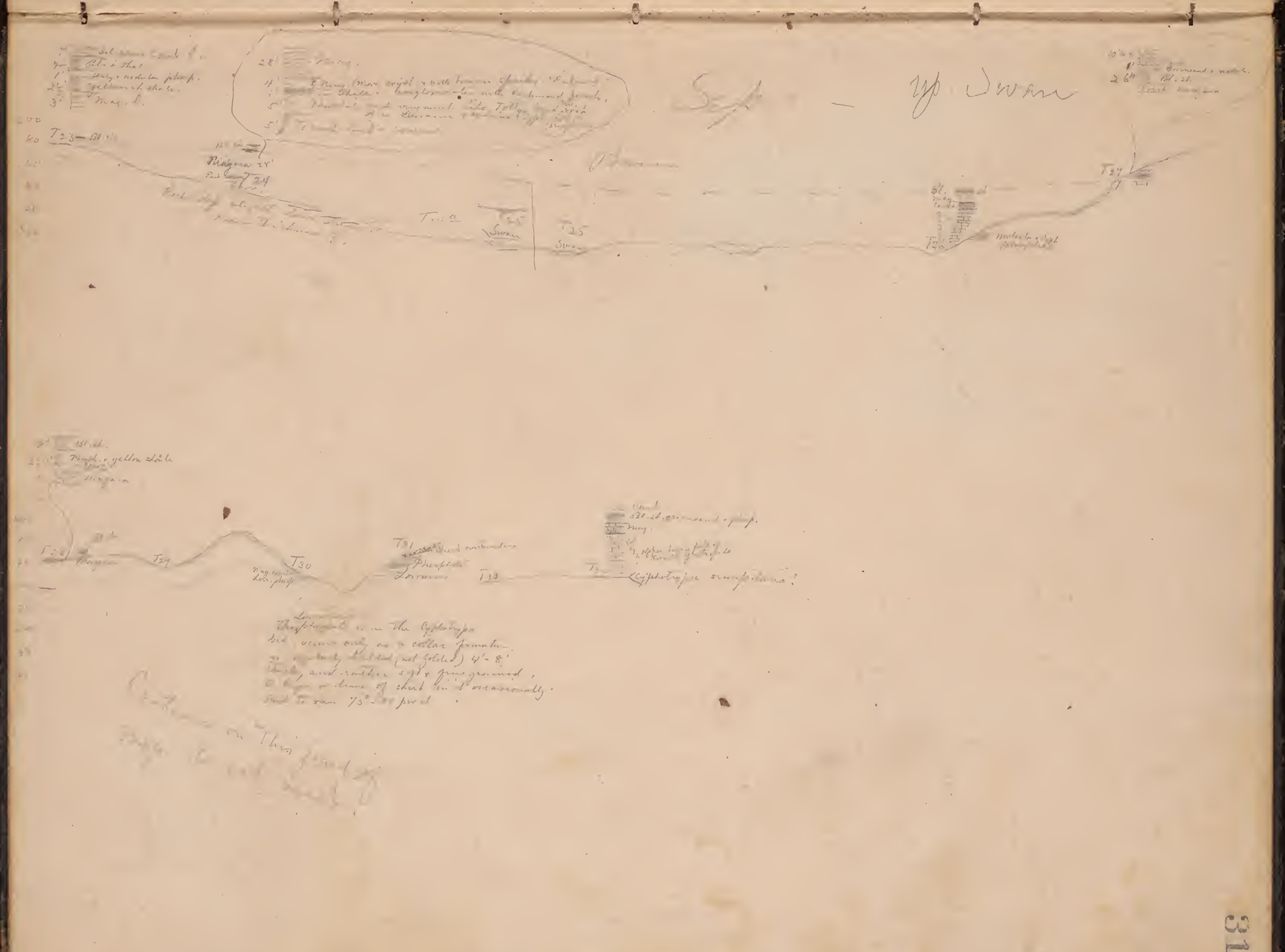
Mouth of Back Branch to Dutch mine at Littlelot.

North from Littlelot,



Littlelot to bridge on Tollys branch


Dewar Tolly Burn.
T14
T15
T16
T17
T18
T19
T20
T21
T22
Richmond


Up. Dewar
T23
T24
T25
T26
T27
T28
T29
T30
T31
T32
T33

Ul 1-11
Centerville up Deadwood Creek
To Pioneerville.

Sept. 14 & 15.
See map for outline of Stag, & Rock, in side branches.

Mouth of East Fork to head
East Edge of sheet
Small stream in Sheet N.E. corner of sheet.

Sept. 17th

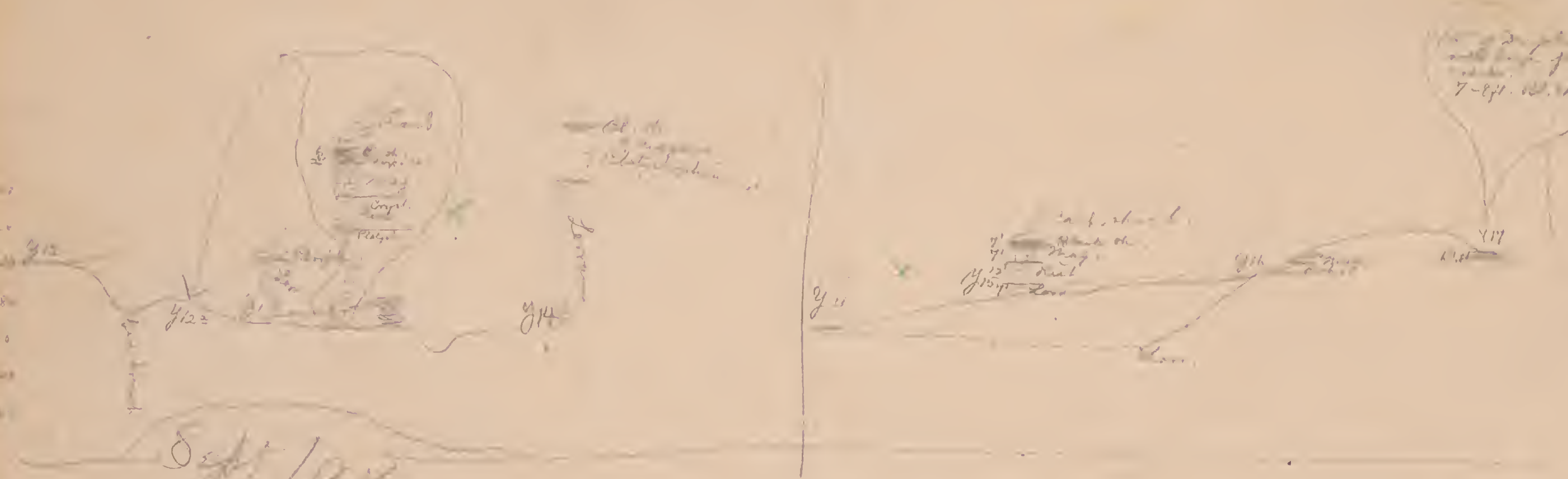
Down Shoal branch of Lick creek.

Up Lick creek

Section here about as at X4.

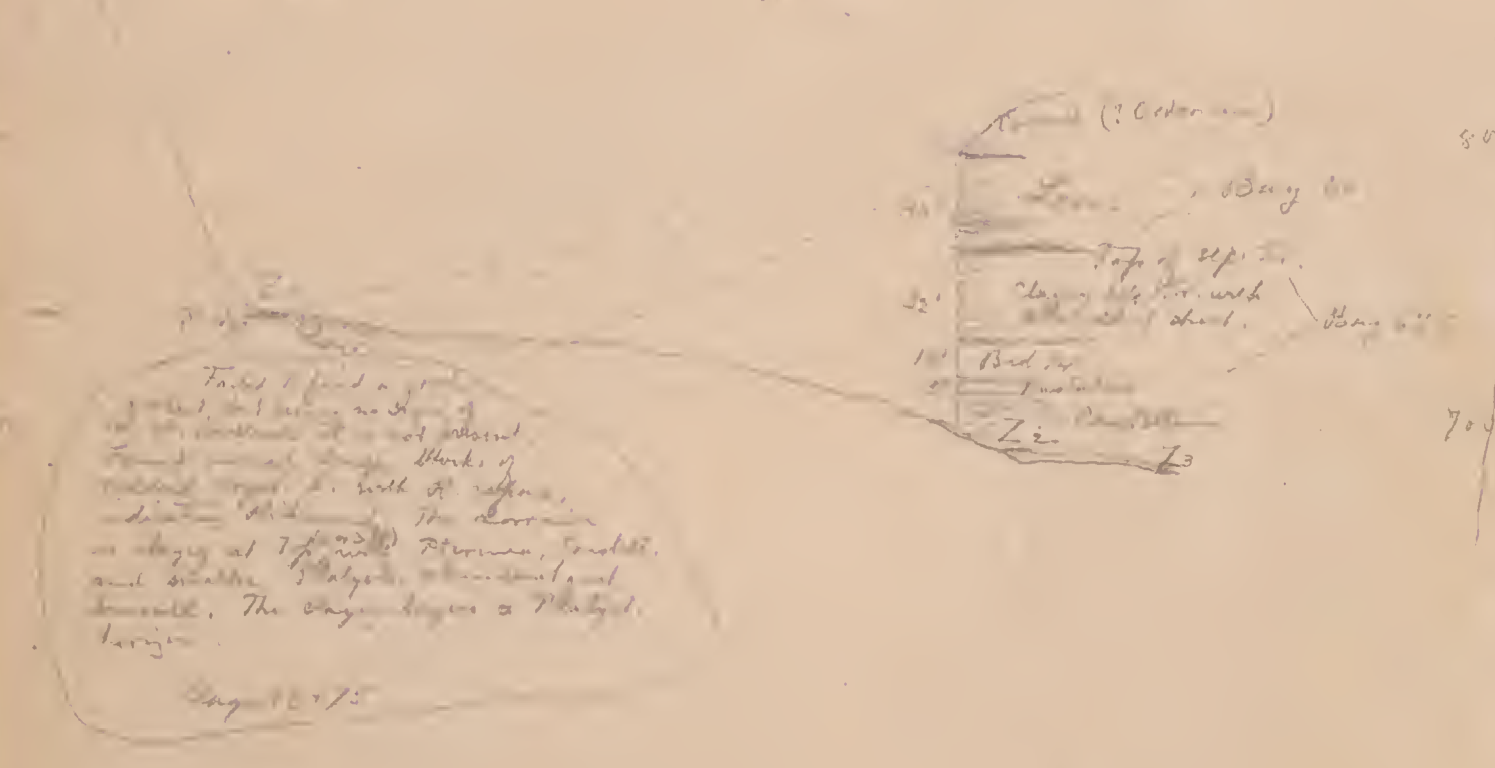
Down Horse branch and Lick creek

From Camp 9 – Down Killen's branch [illegible] Hardison road [illegible]



Sept. 9th.

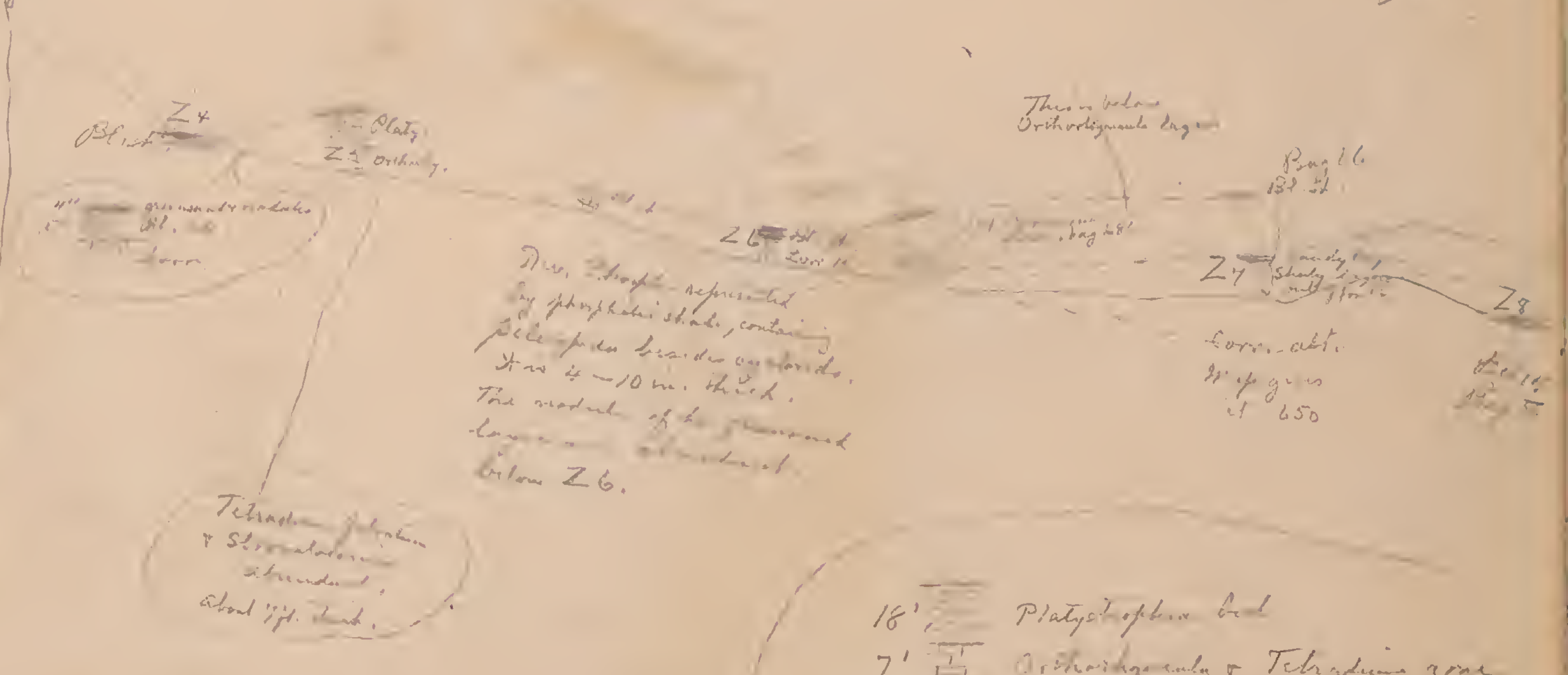
Flagpole to Leipers fork



Failed to find a trace of [illegible] [illegible] [illegible] the Lorraine is [illegible] at Top [illegible] and [illegible]. The [illegible] begins a Platyst. horizon.

Bags 72 + 75

Down Dobbins branch to Leipers fork



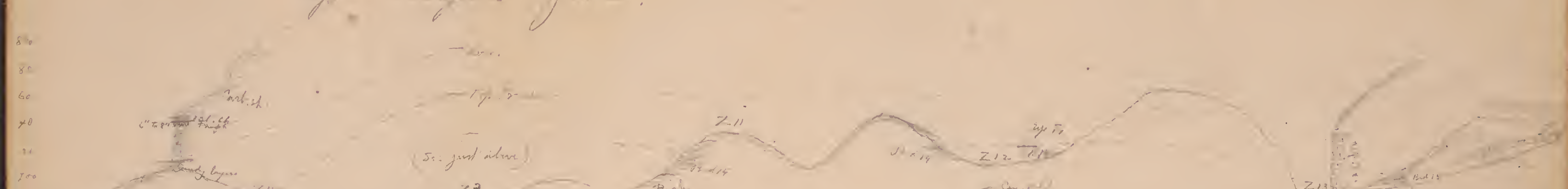
Div. Platyst. represented by phosphatic shale, containing Pelecypoda besides crinoids. It is 4–10 in. thick. The nodules of the grammand layer are abundant below Z6.

Tetradium fibratum & Stromatocerium abundant, about 7 ft. thick.

18' Platystrophia bed
7' Orthorhynchula & Tetradium zone
5½–7' Homotrypella nodosa zone
30' Sandy & granocrystal. l., thin bedded, very fossiliferous in up. 4 ft.

Section in Dobbins branch)

Up Leipers Fork.

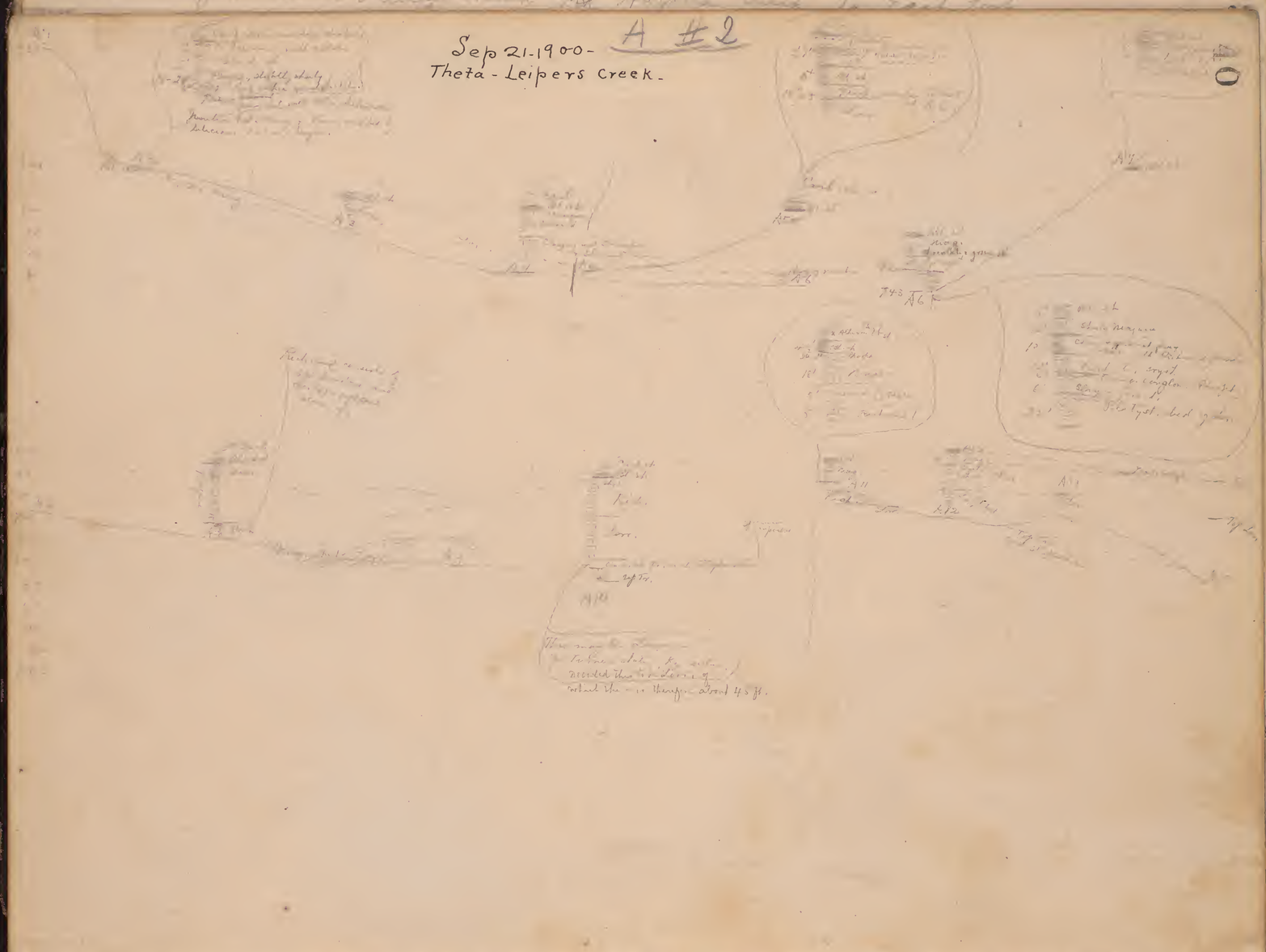


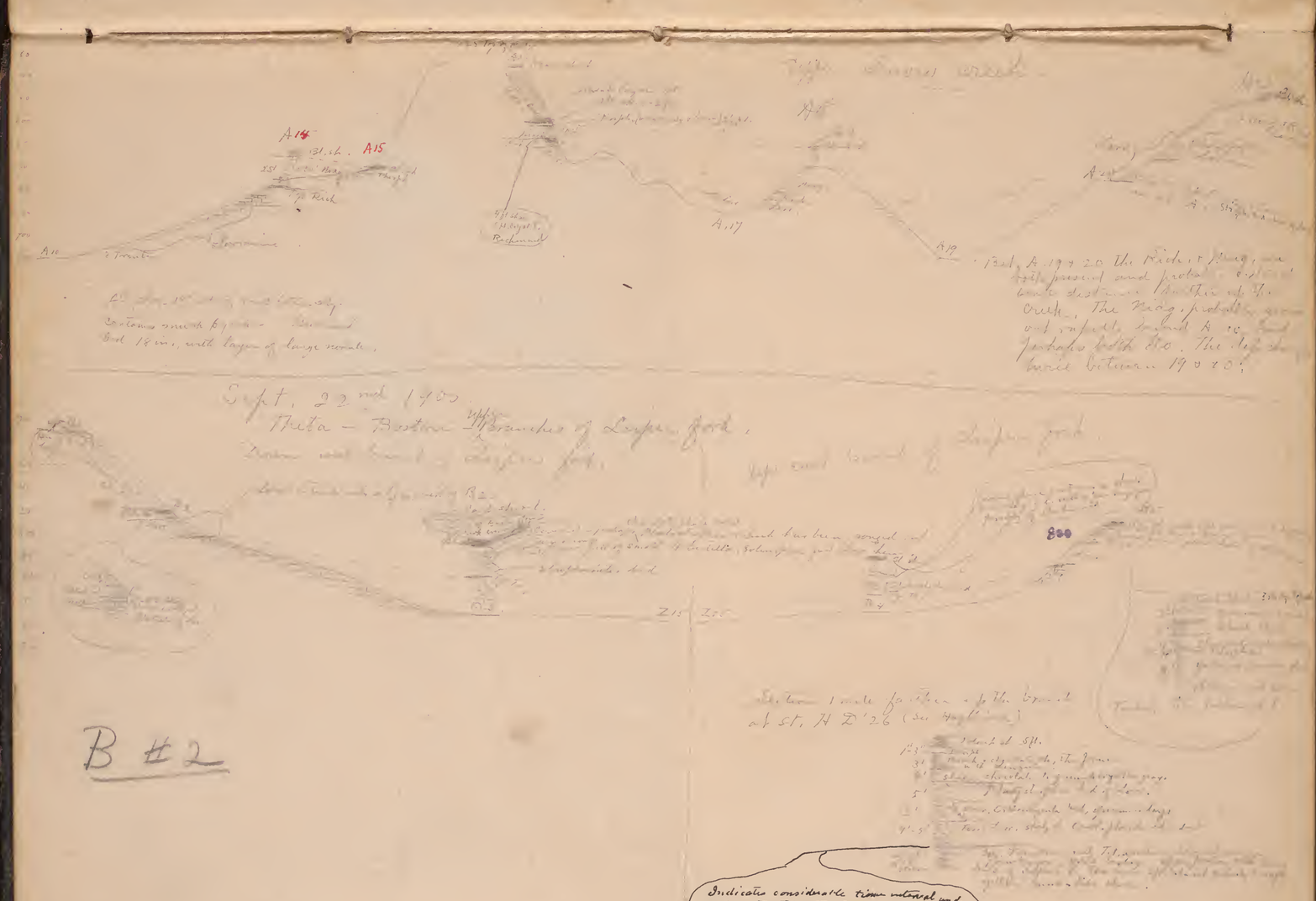
The shaly beds bet. Z13 & Z14 did not receive the study they deserve. It is possible they are not all bed 14, though almost certainly beneath Lorraine.

Up west prong of Leipers fork from Boston (for section down see p. 41)

From Camp 9 - Down Kellogg branch thru Hogsback round to East Fork

Sep 21-1900- A #2
Theta - Leipers Creek.



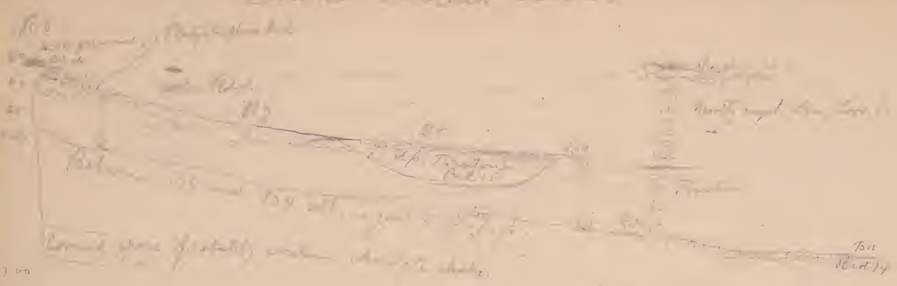


Sept. 22nd 1900.
Theta - Bottom Branches of Leipers fork.

B #2

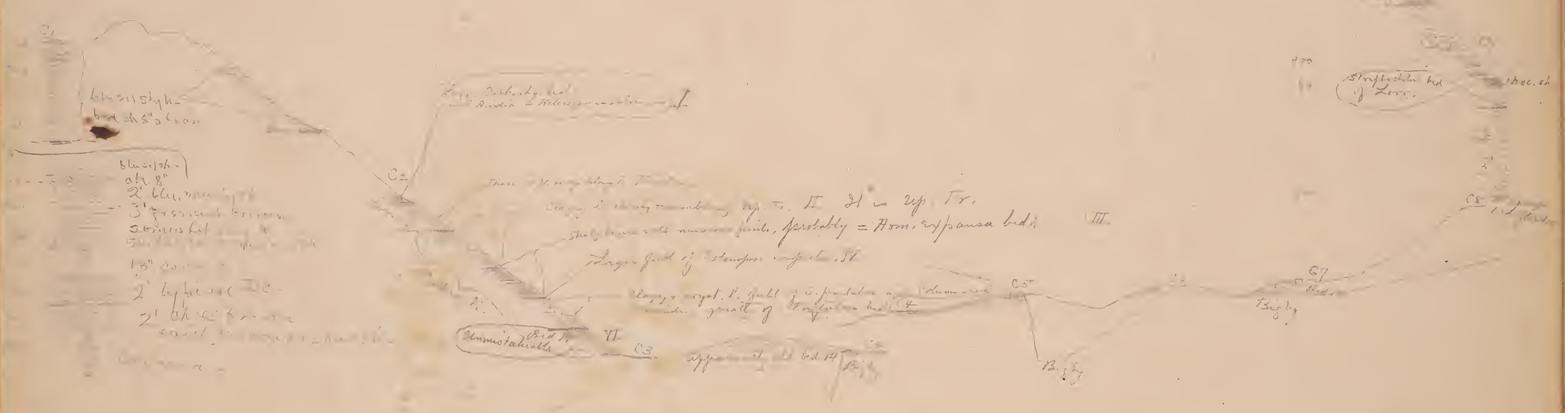
Indicates considerable time interval and erosion, the Top of the Trenton evidently being the Nashville Orthoceras bed which I believe corresponds with upper part of S. pratulorum bed and lower part of bed 14 of the Columbia region. The Lorraine here represents only the upper 30 ft.

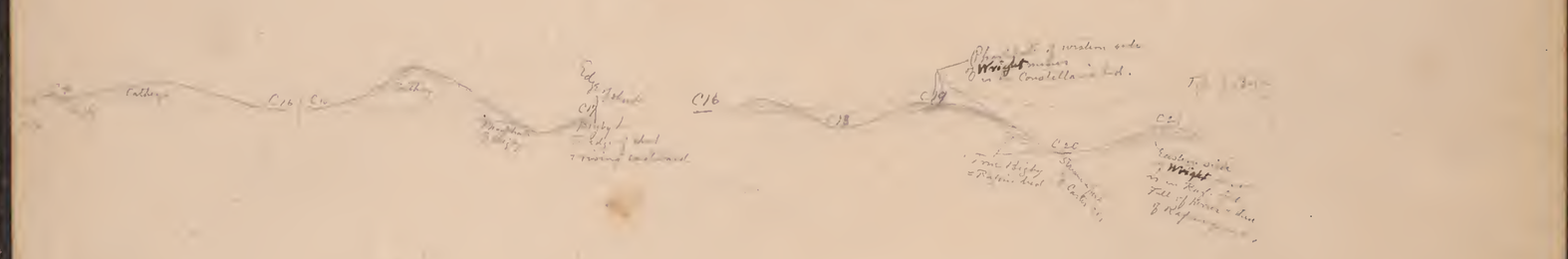
Down Cedar creek.



Sep. 23rd Thru Loco.

C #2



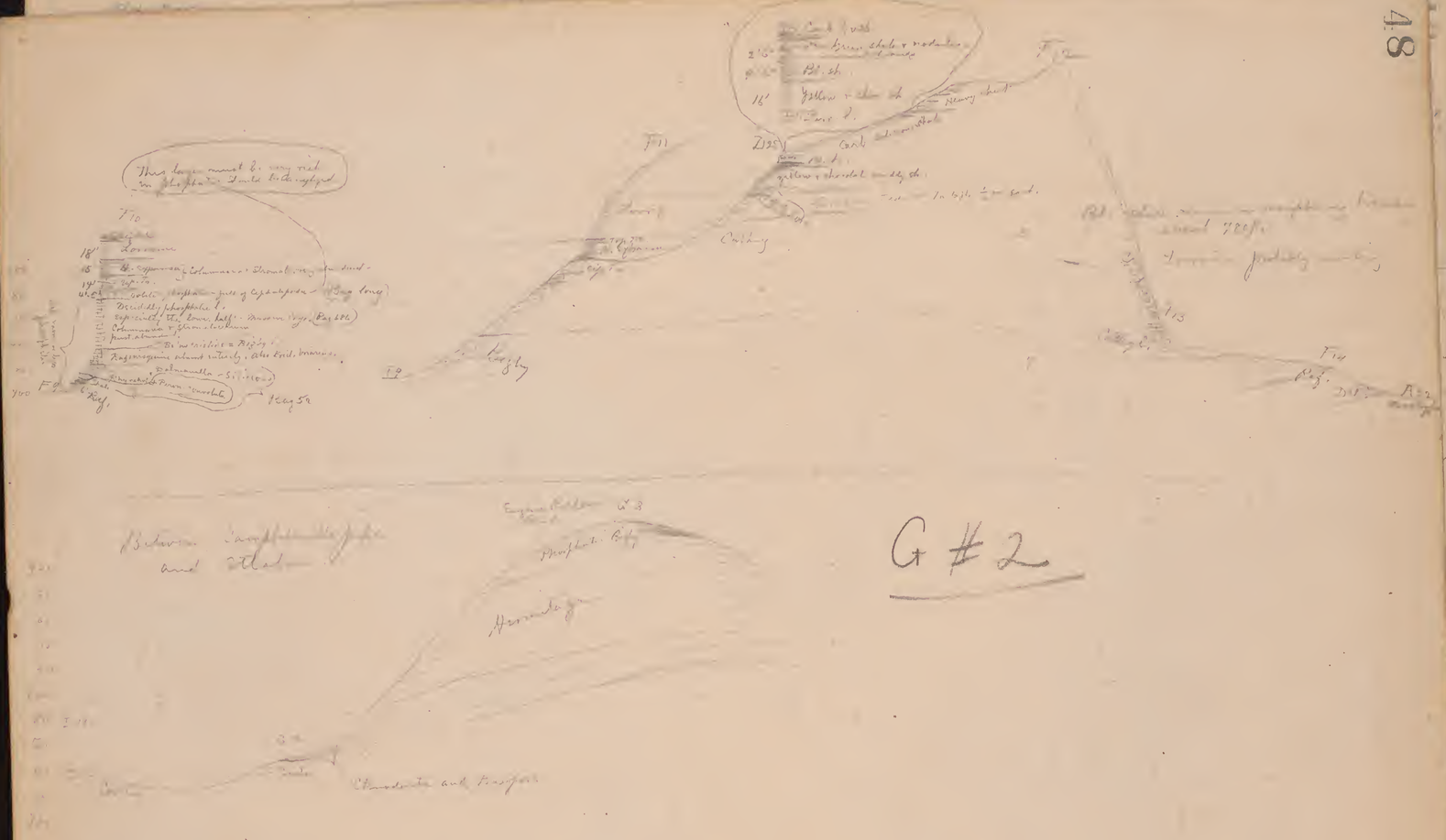


Eastern creek - West to Rock creek
Rock Creek
Trans. 1891 m.s.g. Sheet No. D2
D2

D #2
D10
D14

E #2

F #2



Region east of Hamilton Point.
G1

The Cark. chert (Warsaw age) here seems to crest on Trenton, there being no sign of either Lorraine nor Cathage. The rocks also dip not westward, hence, in passing the horizon (which rests on Trenton) a short distance, the chert forms the surface rock on the high ground, with a steep slope covering Trenton and rapid slope to creek exposing Dal. The Trenton is seemingly over 150 ft in thickness and in the upper portion contains numerous Bryozoa, Brachiopoda & Gastropoda and good one there the Hydrotrochiscus.