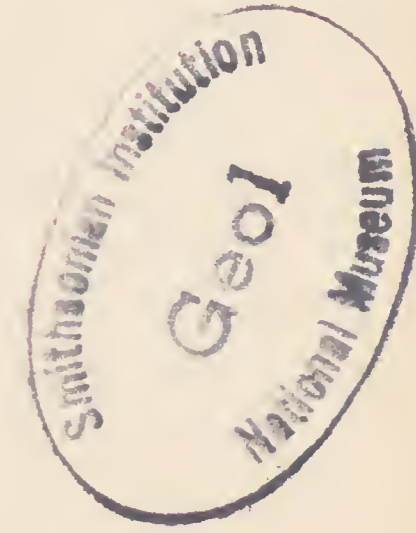


U. S. GEOLOGICAL SURVEY
TRAVERSE BOOK

9-904

S. W. Southwick 183 Thomas St.
Sheet 353 75 etc. Newport

Southwick. Enlarged Supply of Minerals
Newport



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Date.

High hill. - Congl. II, dip SE

High hill 1/2 mi. N.W. of W. Denny Gully. Carbonaceous
sandstone, dip SE, more NW

W. side of hill. Hay in a large basin. Carbonaceous
sandstone, dip SE

Perkins Hill
Church Hill
Branch Cove

Altogether actuals. Dip SE.

Redwood Hill. Quartzite & clay associated along
rim. dip NW

On a flat ridge. Conglomerate. with a thin
sandstone. dip NW. 11 or 12 ft. thick.

Along W. side of Castle. unconformity.

Congl. II, dip SE except at top of
ridge. 4 in. beds, mostly sandstone, = NW.
Carbonaceous sandstone at base of
and top of ridge.

Top of ridge. Carbonaceous sandstone, dip SE

Green. Carb. shale - SE. Flat up the hill.
top of ridge. Carbonaceous sandstone.

axial furrows,
 muscle furrows
 lobes
 grooves,
 segments
 forked cheeks
 movable a few
 facial suture
 general angles
 Epineur
 facets
 body rings,
 axis
 pleural
 Groove or suture
 ridge,
 fulcrum-bent
 imbricate,
 numerous spiracles
 double
 2 or 3 long palps,
 2 unites,
 gills

At Faggar's Ferry a sharp anticlinal of coarse conglomerate is flanked on both sides by carbonaceous schists.

At Sachuest a slaty conglomerate is overlaid by siliceous greenish argillite, and this by coarse grit sandstone including in early layers *Amulania longifolia* etc.

At Paradise on west is a synclinal of conglomerate, on east side a broken one of same.

At Bliss Cave at NW end of Carret's Pond is conglomerate like that at Carret's neck, dip NW.

At 4 is green argillite shales =



Exposures along west margin of the ⁸⁸
clastic area, east of Albany Pond
northward through Newfent.

At 27 is a ravine south of Milan town.
small hill is 20 ft. light grey shists. green
with congl. Dip 20 N.

At 28, west of hill congl. + argillite.
Dip 40 - E.

Summit of hill congl. in argillite
part. Dip 15 SE.

part again at 29.

Shists like 27 at ~~28~~ 30.



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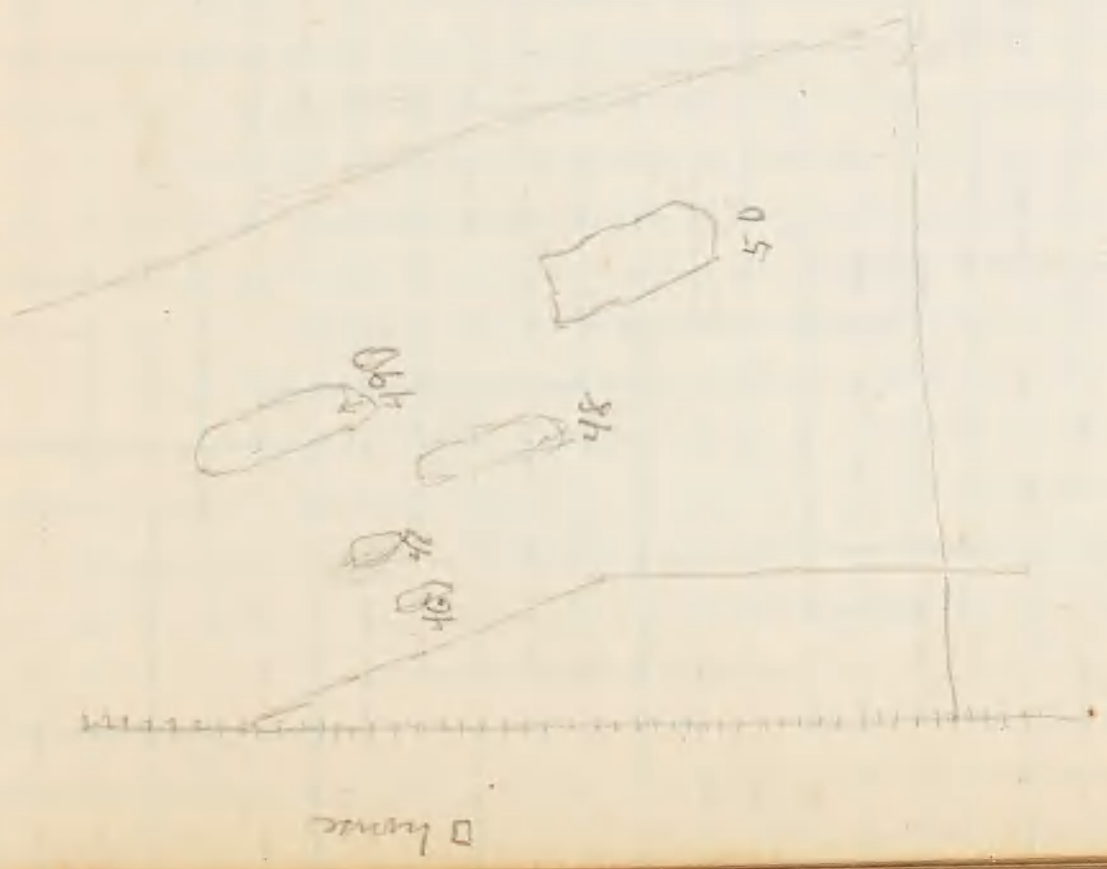
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- 40. At base of hill conglomerate black shale with faint impressions but the latter rare, dip in some places nearly horizontal, in others slightly eastward. In a few spots westwards no dip to be detected, where the dip at times as horizontal.
- 41. Further up here the slate has massive bluish, brownish, or reddish, or higher magnesian, the latter especially prominent in a few cases sandy masses but within the latter the large sandstone exposures further north at 40 which probably lie further eastward stratigraphically. Shale bluish & thin black.
- 42. The greenish slate, varying to greenish blue, is probably the greenish slate, varying more decidedly to bluish, becoming bluish and merging into a sandy layer towards the NE.
- 43. Shind sandstone with at times greenish tinge with fine conglomerate pebbles small. Strike N12E dip unknown believed to be evenly low - 30m. alt.
- 44. Sand quartzite conglomerate with small brownish pebbles up to 10 in. diam. No good dip, believed to be fairly steep westward. Strike N12E dip 43. This is a quartzite conglomerate slightly E of 43. This is a quartzite sandstone which the bedding is here very poorly determined.
- 45. Near the lava fence is a thick green sandstone with included conglomerate pebbles in narrow streaks. Dip very small. Strike N10E dip low 5' west. Further east is a range of the bluish green slate well exposed but no bedding. Looks like exposures 11, 12 etc. Further east is more of the greenish slate. Color banding at times suggests an easterly dip of 45 degrees. Does this mean the eastern side of the hill from which we approach?



- 46. The nearest approach to the Ocellular conglomerate seen in the field. Conglomerate with pebbles of 4 inches well preserved and slate with oblique cleavage. Strike N20W and dip about 45 E well shown at good contact. Substratum slate purple red like sandstone rocks.
- 47. Coarse quartzite conglomerate some pebbles 1 foot or more long.
- 48. Steel Goddard conglomerate. Some pebbles 1/2 to 2 feet long, with a thin stratum which varies from coarse sandstone to medium and very fine grained. From thin exposure I can say well understood from section. Strata might occur in the Paracite series between the Gully. Strata dip 45 E layers without faulting. Strike N20W dip 45 E well shown. Substratum thin greenish blue.
- 49. Very large exposure of very coarse conglomerate. Near strand was a pebble with many fragments.
- 50. Very coarse conglomerate.

57. ... sandy ...
58. ... 15-20 E ...

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109 Very dense, somewhat grayish brown, 4 in. diameter, 4 in. thick. Comp. fine. 100 ft. from top of ...

110 1/2 ft. of ... 100 ft. from top of ...

111 1/2 ft. of ... 100 ft. from top of ...

112 1/2 ft. of ... 100 ft. from top of ...

113 1/2 ft. of ... 100 ft. from top of ...

114 1/2 ft. of ... 100 ft. from top of ...

115 1/2 ft. of ... 100 ft. from top of ...

116 1/2 ft. of ... 100 ft. from top of ...

117 1/2 ft. of ... 100 ft. from top of ...

118 1/2 ft. of ... 100 ft. from top of ...

119 1/2 ft. of ... 100 ft. from top of ...

120 1/2 ft. of ... 100 ft. from top of ...

LL

113 Blue sandstone. A thin, conchoidal layer of small pebbles ... 20 ft. ...

114 1/2 ft. of ... 100 ft. from top of ...

115 1/2 ft. of ... 100 ft. from top of ...

116 1/2 ft. of ... 100 ft. from top of ...

117 1/2 ft. of ... 100 ft. from top of ...

118 1/2 ft. of ... 100 ft. from top of ...

119 1/2 ft. of ... 100 ft. from top of ...

120 1/2 ft. of ... 100 ft. from top of ...

- 118 4 thicknesses of sandstone
 - 2 " " black congl. shales
 - 7 1/2 " " grey bluish sandstone
 - 11 " " coarse conglomerate layer
 - 5 " " sandstone
 - 10 " " coarse cong. conglomerate
 - 119 " " sandstone
 - 25 " " very large pebbled conglomerate layer with large pebbles of sandstone
 - 120 " " coarse conglomerate
 - 17 " " very coarse conglomerate
 - 20 " " sandstone layer. Strike N 25 E dip 65 E.
- Thicknesses of very coarse conglomerate
 Shattered but would in clud all
 exposure as far as the at top point
 next unit goes southward.
 Some fine quartz dikes parallel to trend
 of rock.

- 121 The whole length conglomerate going down
in the dikes
- 122 Quite a thickness of sandstone 15-20
thicknesses.
- 123 fine conglomerate, imbedded sandstone
layers long N 22 E dip 80 E.
- 124 spike here would carry the eye to group
of layers on west side of S. clud. shales
A thick foot bed of coarse conglomerate
imbedded in fine conglomerate & then con-
glomerate flat out to west.
Dip steep east, 80 E.
In outcrop just S W is sandstone and
slate showing temporary westward dip.
- 125 The quantity of rock lying between coarse
sandstone and coarse shales has been
totally incised. The sandstone of any
thickness in the rock is equivalent to 113-116
North of Black Point and about the point.
The whole is same dip west for 500-600 ft
Rock tilted?

- 126 at Castle Rock strike N 35 E dip 90 E.
Coarse shales break with many planes
& very sandstone faulted out, 1/2 mile or less
at least 100 feet.
The shales which carry this coarse layer to
outer edge of point but change of strike would
carry it to again. A dip detailed
explanation would settle the question
where the conglomerate of this rock was to
be found. Since the above I have
been passing west to higher rocks,
eastward, continuation of shales would
carry these rocks into the shales planes
far west of S. clud. shales.
- 127 at first exposures southward they
strike N 40 E dip 40 E. Very coarse conglomerate
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 128 Strike N 24 E dip 40 E. Very coarse conglomerate
conglomerate. Strike & dip well developed
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 129 Strike N 25 E dip 70 W. Coarse conglomerate
conglomerate. Strike and dip well developed
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 130 Strike N 25 E dip 80 W. Coarse conglomerate
conglomerate. Strike and dip well developed
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 131 Strike N 25 E dip 40 E. Coarse conglomerate
conglomerate. Strike and dip well developed
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 132 Strike N 25 E dip 35 E. Coarse conglomerate
conglomerate. Strike and dip well developed
as seen west of an existing sandstone layer
on east side. Strike would carry the whole
to easton of the ridges showing east dip on west
side of ridge.
- 133 Strike N 22 E dip 80 E.
- 134 No more for number in group but strike might
carry along line of strike from 133. No more
or no exposures but small bit above strike
and dip.

2 1/2 Coaly shale
 { 5 1/2 more distinctly sandstone & sandstone more gray,
 16 1/2 more of same kind as last, chiefly sandstone
 varying to shaly sandstone with more carbonaceous
 shaly planes at times but not thin shales, but at
 some long continuous beds, low west dip 20°

Not only were laid by conglomerate but it is
 also evident that the lower layers of conglom-
 erate were broken subsequent to deposit of shaly
 sandstone & sandstone have been detached
 into the conglomerate from beneath.

A 3 Conglomerate pebbles up to 4 in dia, and con-
 taining more carbonaceous & more shaly
 The conglomerate is coarse & sandstone
 dipping southward and thins out to a foot or
 2 in diameter.

25 Shaly sandstone with carbonaceous layers
 getting more carbonaceous & more shaly
 with west dip 50 west
 The strata gradually curved from N 45 to
 N 15 E.

Beneath the conglomerate above said are

- 14 of same kind of gray ss with carb. planes,
- 1 1/2 conglomerate pebbles mostly small.
- 4 sandstone as before fine conglomeratic texture,
 dip 50 west.

14 Coaly black shale Form.

B Conglomerate pebbles up to 4 inches white fine-
 grained. Including ss courses. I am rather
 inclined to think that the shaly sand-
 stone belongs to the bed above. And has
 been washed in. Strata has become N 45 dip
 16 7 1/2 shaly sandstone dipping at horizon to coaly
 sandstone & this extending seaward.

Sept 15 2 miles southward we find the conglomerate B
 below the coaly shales B of more or less thickness
 with the shaly sandstone & sandstone courses.

17 1/2 One of the coaly shale which has changed to
 a shaly sandstone or fine grained ss of 18 1/2
 color with more shaly coaly courses. In general
 with the sandstone above the coaly shale
 northward, especially and extending
 as far up as conglomerate A.

Total thickness of shaly & shaly between 2
 conglomerates is 17 1/2
 This series is a coaly shale towards top merging
 below into ss. nature of distinctly coaly
 shale at bottom and sandstone at top
 as further north. It becomes shaly shale
 at 18 1/2 miles horizon below dips 80 W. from
 about N 45.

Southward the lower conglomerate B

dips up as a
 I am inclined to think it lies coaly shale
 and above this gray sandstone with coaly
 courses

7 Southward the black shale on B becomes
 he much faulted parallel with shaly & shaly
 conglomerates especially faulting
 level than coaly shale & sandstone & coaly
 conglomerate A.

8 One thin shaly ss & coaly shale

8 One thin abundant conglomerate B

30 One thin shaly & blackish conglomerate & shaly
 a very large exposure. Dark blackish gray
 connected with the shaly shaly courses.

about 6 One thin conglomerate, exposed above
 sea level 15 feet exposure level. (1)

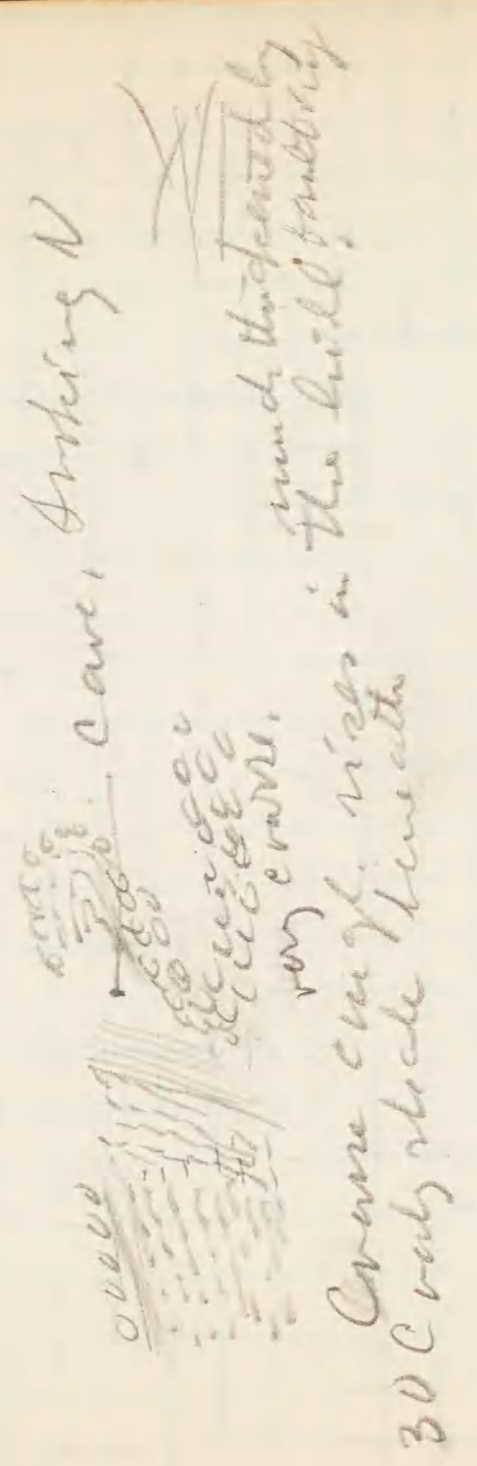
about 6 One thin shaly black, some part of it
 lean shaly shale & all of it decidedly blackish
 dip 50 E
 Conglomerate nearly horizontal. (2)
 40 steps.

Coaly shale.
Thin congl. med.
shale.

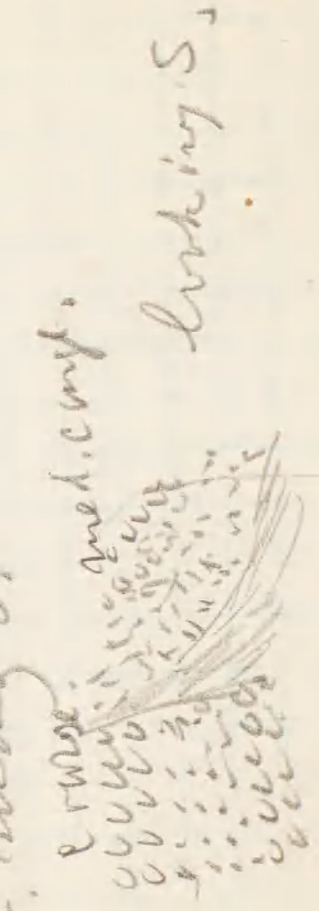
192. Steep W. dip under this congl., faulted 20' or
30' series in west having the west dip of 20 W

cut top at contact

- 8 greenish ss, congl., medium.
 - 4-5 " congl., medium.
 - 6-7 " " congl., very large pebbles, rising in the
 - 7-8 " " congl., with ward, = S pitch.
 - 12-14 greenish ss.
- Faulting here, ss on both sides.
Coaly shale on east side of ss on east of fault.
Coaly shale also to of fault.



Pre congl. congl. underlies the hill
west NE of Vanderbilt house in west
lot. It rises in the hill northwards
higher rocks on west, dip jumps east
pitch, along S.



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Charles Mackay I arrived
at 30 West 45th St
at 11:15 AM. I had a
very nice dinner at
the hotel. I had a
very nice dinner at
the hotel. I had a
very nice dinner at
the hotel.

1870 Report
at the end of the
year.

Charles Mackay
with just a
30-35 to the
end of the
year.

Charles Mackay

- x Reg. Gen. Charles Mackay
- x Ed. White Cook, 71 West 45th St
New York. 1841. 532-507.
- x Report on the
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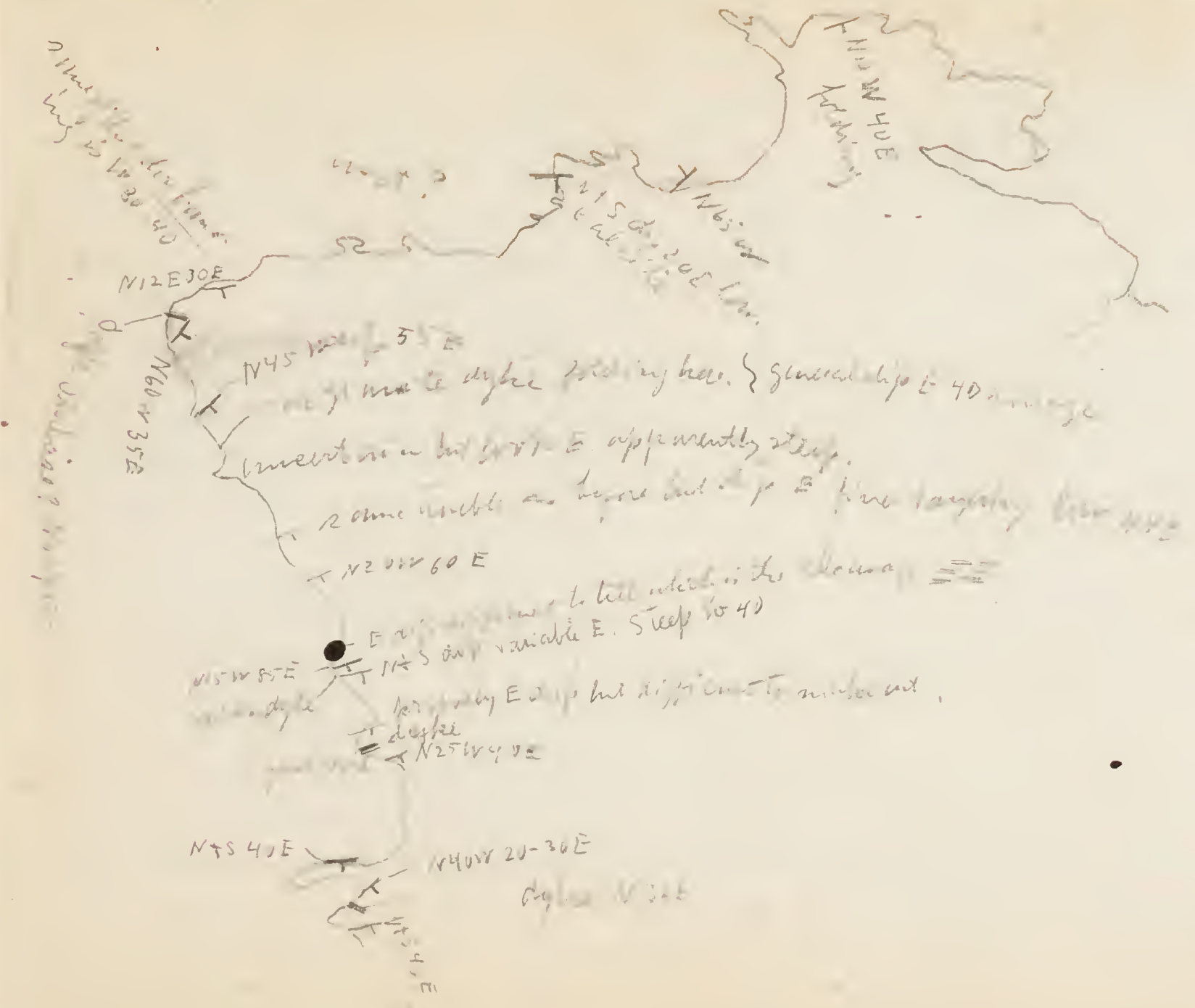
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Newbury - Die Hauptstadt von
Massachusetts -

Emille Sherman, 6035 Woodlawn Ave,

Chicago, Ill

Merrick's Inn Decitt. 3 Somerset St

Mine Thomas 3 Park St, Bham, Ala

