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DM ID: [31024](#) Survey Type: [Survey Of Islands](#) State: [Michigan](#)

Survey Plat Details **Plat Image** **Related Documents**

| | |
|-------------------|---|
| Survey Office: | Detroit, Michigan |
| Surv. Type Other: | --- |
| Fractional: | Yes (Survey Of Part Of North Manitou Island.) |
| Acreage: | 7417.92 |
| Mining District: | --- |
| Group Nr: | --- |
| Min. Surv. Index: | --- |
| Survey Nr: | --- |
| Counties: | Leelanau |
| Field Notes: | MI Volume RJJ38 |

Survey Activities

| Activity Type | Date | Description |
|---------------------------------------|---------------------------|---|
| Survey Commenced | 7/8/1847 | Orange Risdon (Deputy Surveyor) |
| Survey Completed | 7/31/1847 | Orange Risdon (Deputy Surveyor) |
| Contracts Instr. (MI) | 4/29/1847 | --- |

Plat Information:


| | |
|----------------------------|---------------------------|
| DM ID: | 31023 |
| Duplicate Status: | Duplicate |
| Supplemental: | No |
| Survey Based Supplemental: | No |

Plat Activities


| Activity Type | Date | Description |
|---------------------------------|---------------------------|--|
| Survey Approved | 3/16/1848 | Lucius Lyon (Surveyor General) |

Land Descriptions

| Map | State-Meridian | Twp - Rng | Boundaries |
|--------------------------|--|---------------------------------|-------------------------------|
| <input type="checkbox"/> | MI - Michigan - Toledo Strip | 031.0N - 014.0W | Subdivisional |



The mapping feature will be temporarily unavailable from Dec 20 2010 to Dec 27 2010 for system maintenance.

 Land description mapping powered by GeoCommunicator. Please see the [data disclaimer](#).

Townships No. 31 N. Range No. 14 W. Mer. Michigan.

chs. U.S.

Township Lines.

North Boundary.

East On S. Boundary of Sec. 34. T. 32 N. R. 14 W.
 20.00 Enter cord-wood chopping. From 200 to
 300 Cords now corded.
 35.00 Leave chopping.
 40.00 Set qr. Sec. post, from which
 a Beech 8 in. dia. bears N. 32 E. 13 Old. dist. 4
 a do 6 " " " N. 30 W. 25 " "
 45.87 Intersected Shore of Lake Michigan,
 Set post, from which
 a Cedar 8 in. dia. bears S. 46 W. 14 Old. dist. 4
 a do 8 " " " N. 60 W. 15 " "
 Land, first 20 chs. same as last mile, }
 last part, the timber chopped off. Hemlock
 Cedar border on Lake. July 8, 1847.

West On S. Boundary of Sec. 33. T. 32 N. R. 14 W.
 12.39 a Sugar 10 in. dia.
 20.00 Enter small Fir timber.
 17.27. a Beech 15 in. dia. and enter Hemlock
 & Aspen.
 30.00 Leave Hemlock &c.
 40.00 a Beech 16 in. dia. for qr. Sec. Corner.
 54.81 a Cherry 25 in. dia.
 76.00 Height of ascent.
 80.00 Set post, corner to Secs. 32 & 33, from which
 a Beech 10 in. dia. bears N. 17 E. 24 Old. dist. 4
 a do 9 " " " S. 17 W. 24 " "
 Land rich, sand & gravelly soil, gently
 rolling, or slightly uneven, with a grad-
 ual and general ascent to the west.
 Last 15 chs. some broken. Timber, Sugar,
 Beech, Linn, Aspen, Hemlock, Balsam &c.
 Young tall, thrifty growth.

T. 31 N. R. 14 W. Mer. Michigan.

| | |
|-----------|--|
| chs. lks. | |
| West | On S. Boundary of Sec. 32, T. 32 N. R. 14 W. |
| 2.00 | Rise light ridge, course N. 4 S. then gradually descending West. |
| 30.00 | Enter Cedar Swamp. |
| 40.00 | Set gr. sec. post, from which a Maple 8 in. dia. bears S. 76 W. 28 lks. dist. 4 a Cedar 10 " " " N. 37 E. 24 " " |
| 55.00 | Leave Cedar Swamp. |
| 59.00 | Foot of light ridge, course N. 4 S. |
| 62.00 | Top of ridge. |
| 70.00 | Descend ridge to West. |
| 77.00 | Enter North border of a small Cedar Swamp. |
| 80.00 | Set post, corner to Secs. 31 & 32, from which a B. Ash 9 in. dia. bears N. 40 E. 14 lks. dist. 4 a Y. Birch 14 " " " S. 60 W. 16 " " Land, east of swamp rich & well timbered with Beech, Sugar, Birch &c. Some broken by crossing points of ridges, from North. Between swamps, rolling, first rate. The swamp entered a short distance and is drained by a Lake. |
| West | On S. Boundary of Sec. 31, T. 32 N. R. 14 W. |
| 17.00 | a B. Ash 12 in. dia. |
| 18.00 | Leave Swamp & enter upland. Ascend a long hill, with a ravine, South side of the line. |
| 26.00 | Top of hill. |
| 35.00 | a Beech 8 in. dia. |
| 40.00 | Set gr. sec. post, from which a Sugar 10 in. dia. bears S. 83 W. 8 lks. dist. 4 a Beech 6 " " " N. 14 E. 13 " " |
| 61.02 | a Beech 16 in. dia. |
| 69.50 | Summit of a ridge, descending steep into a ravine S. W. |

chs. 00s.

75.00 Bottom of ravine.
80.00 Set post, corner to Towns 31 & 32. North, Ranges 14 & 15 W. on N. side of ravine, and hills high on the north.

(No bearings given in notes.)

Land, west of swamps, rolling, with a general ascent N. Well timbered with Beech & Sugar. On the summits & borders of hollows, Hemlock. Soil rich sand and gravel, with a thick and luxuriant growth of herbage.

West Boundary.

South On E. Boundary of Sec. 12, T. 31 N. R. 15 W.
1.00 Descend into a ravine, descending East.
3.00 Top of ^{North} bank.
31.43 a Sugar 34 in. dia.
40.00 Set gr. sec. post, from which
a Beech 8 in. dia. bears S. 78 W. 16 chs. dist. &
a do 9 " " " N. 15 W. 21 " "
42.00 The land drops suddenly & steep to the S. W.
44.00 Foot of ridge.
47.46 a Hemlock 12 in. dia.
55.00 To break of shore of Lake.
55.46 Intersect shore of Lake Michigan banks not high or steep. Set post, from which
a Hemlock 16 in. dia. bears N. 87 E. 50 chs. dist. &
a Beech 12 " " " N. 21 W. 69 " "
Land, first half mile, 1st rate. Beautifully timbered with Beech, Sugar, and scattering Linn. Herbage thick and great growth. The face of the land gradually descending East West of the line. Ascends more steep to the high ridge, on Lake Shore.

North ^{Random} On E. Boundary of Sec. 1, T. 31 N. R. 15 W.

T. 31 N. R. 14 W. Mer. Michigan.

chs. Chs.

- Land rough and broken ranges of Ravines & Ridges, E. & W. points of hills. Random Line.
- 40.00 Set temporary post.
- 45.00 Descend a Ridge, course E. & W. The line then keeps on a side-hill, descending west to a valley of handsome land.
- 76.00 Descend into a deep ravine, opening Westward.
- 79.00 Foot of hill, course E. & W.
- 79.69 Intersect N. Boundary 58 Chs. N. of post. Land, South half broken. Soil good, but timber scrubby. North half, E. side of line broken, W. side a fine valley of handsome land. Timber, Beech & Sugar.

South Corrected Range line, E. Side of Sec. 1,

- 39.69 Set gr. sec. post, from which
a Beech 16 in. dia. bears S. 82 E. 12 Chs. dist. 75
a do 8 " " " S. 84 W. 8 " "
- 79.69 To Sec. corner.

Surveyed in 1847, by
A. Risdon
Depy. Surveyor.

Location & Subdivision of North
Manitou Island. T. 31 N. R. 14 W.
Var. 3. 10 E.

I found by observations taken on the coast, that the S. E. timbered point of this Island is in Sec. 23, T. 31 N. R. 14 W. at a point 9.50 East and 4.50 South of the place for gr. sec. post on line between Secs. 22 & 23, from which I run blank line West 9.50, and then

chs. 012.

North 4.50, and established gr. sec.
post on line between Secs. 22 & 23, from which
a Hemlock 8 in. dia. bears S. 31 E. 40 Chs. dist. 4
a Maple 16 " " " N. 43 W. 60 " "
Thence

North 4.67 from gr. sec. post on line between Secs. 22 & 23.
Intersect shore of Lake Michigan, set
post, from which
a Y. Pine 16 in. dia. bears S. 20 E. 82 Chs. dist. 4
a W. Pine 18 " " " N. 81 W. 62 " "

South 8.70 from gr. sec. post on line between Secs. 22 & 23.
a Hemlock 14 in. dia.
9.00 Foot of sand drift bank, from S. W.
11.00 Foot of same, on S. side.
19.35 Intersect shore of Lake Michigan and
set post, from which
a Cedar 10 in. dia. bears S. 74 W. 64 Chs. dist. 4
a W. Pine 10 " " " N. 35 E. 58 " "
Loose sandy barren land.

From N. meander post between Secs.
22 & 23, Run on Lake Shore
N. 45 W. 45.00

N. 29 W. 4.00, Established post on line
between Secs. 15 & 22, from which
a W. Pine 9 in. dia. bears S. 20 W. 93 Chs. dist. 4
a Y. Pine 9 " " " S. 96 W. 142 " "
Thence

West 6.10 On line between Secs. 15 & 22.
Set gr. sec. post, from which
a Hemlock 12 in. dia. bears S. 57 W. 144 Chs. dist. 3
Timber cut off, & no other trees.

26.10 Set post, corner to Secs. 15, 16, 21 & 22, from which
a Beech 12 in. dia. bears N. 49 W. 12 Chs. dist. 4
a Do 6 " " " S. 43 E. 31 " "

T. 31 N. R. 14 W. Mer. Michigan.

Ch. Cks.

Land loose Spongy, Beach sand.
Timber mostly cut off. Hemlock, Beech,
Sugar, Cedar &c.

Pickard Ho. Wood Yard, sharp, 150 feet
by 60 - built on piles - is on S. E. 1/4 of Sec.
15, near the line. Two dwelling houses,
Grocery, Black Smith's Shop, Store House
& other buildings, a good establishment.

North between Secs. 15 & 16.

10.84 a Hemlock 12 in. dia.

30.00 Intersect a ridge between upper flower
table land, from S. W. bearing N.40.00 Set post, Sec. post on side of ridge, from which
a Beech 12 in. dia. bears S. 11 W. 40 lbs. dist. 4
a Sugar 9 " " " N. 18 E. 89 " "52.00 Blair's boarding house for wood choppers,
on Sec. 15, a few feet from the line.
and a fine pure Spring comes out from
the ridge on Sec. 16, and is soon lost on
the sandy soil on 15.

77.39 a Beech 12 in. dia.

80.00 Set post, corner to Secs. 9, 10, 15 & 16, from which
a Beech 9 in. dia. bears N. 40 E. 10 lbs. dist. 4
a Do 8 " " " S. 31 W. 44 " "

Land very sandy, good 2^d rate soil, on
16 above the ridge. Third rate below the
ridge on 15. Timber, which once covered
it but now cut off for Steam boats, Beech,
Sugar, Hemlock &c.

The line for the last 50 cks. runs on the
side-hill between upper flower table
land.

July 7th. 1847.

East between Secs. 10 & 15.

1.00 To foot of ridge.

T. 31 N. R. 14 W. Mer. Michigan.

225

Jul. 21st.

15.69

a Hemlock 12 in. dia.

25.24

Intersect shore of Lake Michigan,
a W. Pine 8 in. dia. far corner.

Land light loose sandy soil, with few
parallel ridges, thrown up by the former
action of the waters of the Lake, which
have since receded.

Timber left standing, chiefly Hemlock,
with Hin Cedar near the Lake, and a
few scattering W. & Y. Pines.

North

between Secs. 9 & 10.

3.90

a Beech 14 in. dia.

10.00

Leave Chopping.

20.00

Begin gradually to ascend the ridge,
which assumes a hog-back appearance,
as you approach the top. From 150 to
200 feet high.

36.00

Top of hill.

40.00

Set gr. Sec. post, from which

a Beech 10 in. dia. bears S. 22 W. 20 Chs. dist. &

a do 16 " " " N. 16 E. 14 " "

44.00

Ridge, broken by ravines, course E. & N.

46.00

Bottom of ravine.

46.70

a Sugar 18 in. dia.

50.00

Top of hill, course E. & N.

57.00

Bottom of 2^d ravine, course E. & N.

80.00

Set post, corner to Secs. 3, 4, 9 & 10, from which

a Birch 16 in. dia. bears N. 40 E. 41 Chs. dist. &

a Sugar 8 " " " S. 46 W. 36 " "

Land 2^d rate. Soil sand mixed with
Lake gravel & pebbles.

Timber Beech, Sugar, with scattering
Hemlock, Birch, Cherry &c. North half
very broken by ridges & ravines, course E. & N.

T. 31 N. R. 14 W. Mer. Michigan.

| | |
|-----------------------|---|
| chs. M ^s . | |
| East | between Secs. 3 & 10. |
| 9.88 | a Beech 16 in. dia. |
| 17.55 | a Lyrus 16 in. dia. |
| 22.00 | Leave broken land & descend to table land of Lake. |
| 32.65 | Intersect shore of Lake Michigan. Set post, from which |
| | a Balsam 8 in. dia. bears S. 61 W. 22 (M ^s . dist. 7) |
| | a W. Pine 10 " " " N. 5 W. 30 " " " |
| | Land, first part broken by hills, knobs & ravines. Soil same as last mile. East part level. |
| | Timber, Hemlock with Fir and scattering Pines. On the hills Beech and Sugar etc. not so large. |
| North | between Secs. 3 & 4. |
| 21.40 | a Beech 12 in. dia. |
| 40.00 | Set gr. Sec. post. from which |
| | a Beech 14 in. dia. bears S. 63 E. 27 (M ^s . dist. 7) |
| | a do 10 " " " N. 83 W. 20 " " " |
| 44.96 | a Beech 14 in. dia. |
| 62.86 | a Sugar 10 in. dia. |
| 76.98 | a Beech 14 in. dia. |
| 80.00 | Set post. corner to Secs. 3 & 4, T. 31 N. R. 14 W. & Secs. 33 & 34, T. 32 N. R. 14 W. from which |
| | a Beech 12 in. dia. bears N. 59 E. 30 (M ^s . dist. 7) |
| | a do 12 " " " S. 77 W. 14 " " " |
| | Land rolling and not abruptly broken. Good 2 ^d rate. Soil sand, and coarse compact lime gravel and Lake Stone. Well timbered with Beech, Sugar, Lyrus, Birch & Hemlock. Fair farming land. |
| South | between Secs. 21 & 22. |

chs. lks.
 21.00 Foot of ridge, course E. & W.
 22.00 Top of ridge.
 24.72 a Hemlock 48 in. dia.
 25.00 Foot of 2^d. ridge, course E. & W.
 27.00 Top of ridge.
 31.00 Descend sand ridge.
 40.00 Set gr. sec. post. from which
 a Beech 10 in. dia. bears N. 89 W. 102 lks. dist. &
 a do 14 " " " S. 89 E. 22 " "
 63.00 Leave Chopping.
 80.00 Set post, corner to sects. 21, 22, 27 & 28, from which
 a Beech 7 in. dia. bears N. 26 E. 5 lks. dist. &
 a do 9 " " " S. 13 W. 24 " "
 Land, dry, loose sandy soil, 3^d rate,
 rolling with ridges of not very high
 elevation, in every direction & shape.
 Timber, Beech, Maple, with scatter-
 ing Hemlock - On north part very
 large size. South part well wooded,
 especially on the levels. The ridges
 lightly timbered. North parts timber
 cut off.

East between Sects. 22 & 27.
 2.50 Descend to foot of ravine, course N. 6 E. & S. W.
 7.50 Top of ridge, covered with Hemlock,
 To Eastern slope.
 9.00 To Eastern slope.
 13.00 Bottom of slope.
 19.87 a Beech 14 in. dia.
 22.66 Intersected shore of Lake Michigan, set
 post. from which
 a Spr. Pine 9 in. dia. bears N. 7 W. 16 lks. dist. &
 a Cedar 9 " " " S. 85 W. 39 " "
 Land broken into steep, and precipitous
 sand ridges & ravines, of no great
 elevation, from 1 to 2 chs. across, parallel

| | |
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| chs. Mts. | to the coast. Timber near the Lake, chiefly Hemlock, and in near Beech & Sugar. |
| South | between Sects. 27 & 28. |
| .64 | a Beech 12 in. dia. |
| 3.00 | Bottom of ravine, course N. E. & S. W. |
| 6.00 | Top of ridge, same course. |
| 8.00 | Descend to foot. |
| 10.00 | Top of 2 ^d ridge. |
| 12.00 | Foot of ridge. |
| 14.46 | Hemlock 14 in. dia. |
| 15.12 | Top of sliding sand bank, from 60 to 100 feet high. Set post, from which a Hemlock 10 in. dia. bears S. 71 W. 14 Chs. dist. 4 |
| | a do 14 " " " N. 32 E. 38 " " |
| 16.76 | Intersect shore of Lake Michigan at foot of sand ^{blow} hills. Set post to bearing Land, sand ridges & ravines, course N. E. & S. W. S. W. Timber, north part, Beech & Maple, south belt, mostly Hemlock. |
| West | between Sects. 21 & 25. |
| 8.00 | To foot of high & steep ridge, course N. & S. |
| 13.00 | Top of ridge & E. edge of bare sand - below hill, running up from Lake. |
| 18.00 | Cross sand blow. |
| 26.00 | Enter second bald point. |
| 30.00 | Cross sand blow & enter point of Cedars. |
| 32.00 | Third sand point. |
| 40.00 | Enter timbered land, & set q. sec. post, from which a Fir 8 in. dia. bears S. 41 W. 3 Chs. dist. 4 a Sugar 10 " " " N. 34 W. 39 " " |
| 55.51 | a Sugar 16 in. dia. |
| 56.00 | Top of ridge, descending S. W. which |

chs. 113.

we gradually descend.

72.36 Break of the hill, bordering the Lake. Set post, from which
 a N. Birch 8 in. dia. bears N. 72 E. 16 chs. dist. 8
 a Do 7 " " " S. 14 E. 34 " "

74.86 Intersect shore of Lake Michigan, at foot of sand sliding banks. Set post. No bearing.
 Land worthless. Sand ridges, ravines & hollows, and bald sand blows.
 Timber East part, Cedar & Spruce. West part, Sugar, Beech, Birch &c.
 Last part a rich growth of herbage.
 July 9, 1847.

West between Secs. 16 & 21.
 6.00 Slight ridge, course N. & S. and rise to second table land - not very high.
 27.00 Leave chopping, which continues on Sec. 16 a short distance from the line, from 5 to 10 chs. further.
 240.00 Set 2d sec. post, from which
 a Sugar 8 in. dia. bears S. 38 W. 5 chs. dist. 4.
 a Do 10 " " " N. 46 E. 34 " "
 55.84 a Beech 10 in. dia.
 65.89 a Beech 12 in. dia.
 75.00 Foot of ridge, not steep, course N. & S. W.
 80.00 Set post, corner to Secs. 16, 17, 20 & 21, on S. E. slope of hill, from which
 a Beech 12 in. dia. bears S. 40 E. 10 chs. dist. 7
 a Do 12 " " " N. 57 W. 15 " "
 Land, East half pretty level, West half gradually ascending west. Soil loose sand & coarse Lake gravel & fine pebbles. East part, the wood chopped off. West part well wooded with Beech & Sugar; a few scattering large

T. 31 N. R. 14 W. Mer. Michigan.

| chs. Ws. | |
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| | Hemlocks, very little herbage. |
| South | between Secs. 20 & 21. |
| 40.00 | Set gr. sec. post. from which a Beech 12 in. dia. bears S. 81 W. 24 Ws. dist. 4 |
| 41.40 | a Do 7 " " " N. 77 E. 6 " " |
| 41.40 | a Sugar 16 in. dia. Gradually descend- ing from the heights, sloping to S. W. |
| 60.00 | To bottom of ridge. |
| 61.00 | Ascend steep sand ridge, covered with Cedar & Fir. |
| 65.00 | Descend sand slides. |
| 68.54 | Intersect shore of Lake Michigan, set post. from which |
| | a Cedar 8 in. dia. bears S. 30 W. 84 Ws. dist. 4 |
| | a Balsam 6 " " " S. 38 E. 198 " " |
| | Land rolling, with points of ridges extending across the line, from West to East. South part on broken side hill, facing S. W. On Lake shore, sand ridges. Soil apparently rich. |
| | Timber, Beech & Sugar. A great growth of herbage on the ravines and slopes of hills facing the E. & W. |
| West | between Secs. 17 & 20. |
| 3.90 | a Sugar 14 in. dia. |
| | Land gradually ascending west, on N. side of a broad ravine, or hollow. |
| 25.00 | Top of hill, course S. E. W. N. descending steeply. |
| 35.00 | Foot of ridge. |
| 40.00 | Set gr. sec. post. from which |
| | a Sugar 10 in. dia. bears S. 23 W. 23 Ws. dist. 5 |
| | a Beech 10 " " " N. 62 E. 15 " " |
| 46.64 | a Hemlock 24 in. dia. |
| 48.50 | Sand beach of Lake bluffs. |

Chs. U.S.

50.44 Intersect shore of Lake Michigan.
 Set post, from which
 a Beech 8 in. dia. bears N. 28 W. 6 Chs. dist. 4
 a Balsam 8 " " " S. 50 E. 204 " "
 Land first 25 chs. good 2^d rate Land, &
 timber, Beech, Sugar, Maple, Birch &c.
 Last part broken Hemlock ridges, and
 near the Lake sand banks & slides.

North between Secs. 16 & 17.

4.83 a Beech 14 in. dia.
 25.00 a ridge, course S. E. & N. W.
 31.00 Bottom of ridge.
 36.00 Slight descent.
 40.00 Set gr. Sec. post, from which
 a Beech 16 in. dia. bears N. 85 W. 2 Chs. dist. 4
 a Maple 8 " " " S. 59 E. 24 " "
 51.42 a Beech 12 in. dia.
 56.15 a S. Birch 18 in. dia. gradually ascend a
 ridge, course N. W. & S. E.
 65.00 Top of ridge, to table land.
 80.00 Set post, corner to Secs. 8, 9, 16 & 17. from which
 a Beech 14 in. dia. bears N. 50 W. 16 Chs. dist. 4
 a Hemlock 9 " " " N. 13 E. 7 " "
 Land good 2^d rate. First half rolling,
 with a general descent to east. A rich
 valley between the ridges. Timber Beech,
 Sugar, Birch &c. Hemlock on the ridge,
 facing the west. July 10, 1847.

East Random between Secs. 9 & 16.

22.00 To brow of a ridge, from N. and bearing
 off to the South.
 26.00 Foot of the ridge. A fine large spring,
 and a wood-chopper's shanty a few chs.
 South of the line. Spring soon lost.

T. 31 N. R. 14 W. Mer. Michigan.

| | |
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| 40.00 | Enter N. border of chopping, which extends to ridge S. W. |
| 60.00 | Ascend South end of Observatory Hill. |
| 71.00 | Top of Observatory Ridge, from 10 to 15 chs South of M. Comb's Monument. |
| 77.50 | Foot of first ridge, or shoulder of hill. |
| 80.34 | Intersect E. Boundary, at post. Land a rich black mould, mixed with sand & lime gravel. Timber, Beech & Sugar, with Hemlock on the ridges. Observatory Hill ^{rides} raises to the North, as you approach the monument, from 50 to 100 feet higher than the line. <u>Note</u> , by recorder, the connection of the foregoing line is not to be found in the notes. |
| North | between Secs. 8 & 9. |
| 19.99 | a Sugar 16 in. dia. |
| 22.50 | Descend Side-hill to valley, Course N. W. S. E. |
| 24.50 | Foot of ridge. |
| 27.50 | Ascend to top of Hog-back ridge, course N. W. S. E. |
| 32.00 | Over same. |
| 40.00 | Set gr. Sec. post, from which a Beech 6 in. dia. bears N. 63 W. 20 Chs. dist. 4, a do 6 " " " " N. 46 E. 20 " " |
| 63.00 | Leave flat, ^{land} ascent East side of ravine, Course N. W. S. E. |
| 69.50 | Top of ridge. |
| 77.00 | Foot of 2 ^d hill, Course E. & W. |
| 79.00 | Top of ridge. |
| 80.00 | Set post, corner to Secs. 4, 5, & 9, from which a Sugar 24 in. dia. bears N. 57 E. 27 Chs. dist. 4, a Beech 6 " " " " N. 50 W. 23 " " Land rather uneven, with high ridges |

T. 31 N. R. 14 W. Mer. Michigan.

chs. 112

and steep ascents, 2^d rate. Soil dry black sand & loose pebbles. Timber chiefly Beech & Maple, with scattering large Hemlocks & Birch on the ridges. The north half not very well wooded. Hills covered with Ground Hemlock.

East

between Secs. 4 & 9 - Random.

1.50

Ascending to top of a 2^d ridge - irregular.

19.00

Intersect N. side of a ravine - descending Easterly.

27.00

Bottom of ravine.

30.50

Rising, irregular & broken hills, and ravines. The balance of the way ^{very} rough and broken hills.

80.50

Intersect E. Boundary 70 chs. north of post. Soil rich loose black sand & gravel. Lightly timbered with Beech & Maple & scattering Hemlocks and Birch. Apparently an immense sand heap, in which the ^{trains} ravines have worn and cut gullies, leaving hills and ridges in every shape and in every direction.

West

corrected between Secs. 4 & 9.

10.25

Set gn. sec. post. from which a Sugar 10 in. dia. bears N. 22 E. 20 chs. dist. & a Beech 8 " " " S. 50 W. 17 " "

80.50

To sec. corner. July 12, 1847.

West

between Secs. 8 & 17.

4.00

Brow of hill.

5.50

Foot of ridge, course N. W. & S. E.

7.00

Foot of west ridge.

9.50

Top of hill.

25.00

Enter ravine.

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| | |
|------------------------------|--|
| 26.50 | Foot of a long descending hill. |
| 29.50 | Top of ridge. |
| 31.00 | Rise another ridge - Hill facing south. |
| 40.00 | Set gr. sec. post. from which a Beech 9 in. dia. bears N. 17 W. 39 Chs. dist. 7 a do 7 " " " S. 2 E. 26 " " |
| 45.00 | Top of ridge, descending west. |
| 45.66 | a Beech 16 in. dia. |
| 50.00 | Second descent west. |
| 56.00 | Foot of ridge & enters a ravine, from N. E. opening to the S. W. Line on side - hill, N. side of ravine. |
| 61.00 | Third descent west. |
| 75.00 | Bottom of ridge. |
| 80.00 | Set post. corner to Secs. 7, 8, 17 & 18, from which a Beech 12 in. dia. bears N. 54 E. 28 Chs. dist. 7 a do. 9 " " " S. 36 W. 24 " " Land broken, 3 ^d rate. Timber, Beech, Sugar, Birch &c. Some Hemlock. |
| South between Secs. 17 & 18. | |
| 5.00 | a large cold Spring a few feet from the line on Sec. 17, discharging into 18, where it soon disappears. Continues level & Springy for 20.00 ^{E. L.} |
| 32.67 | a Beech 14 in. dia. |
| 40.00 | Set gr. sec. post. from which a Beech 9 in. dia. bears N. 70 W. 14 Chs. dist. 7 a Sugar 6 " " " S. 53 E. 15 " " Land continues level, but more dry. |
| 54.00 | to break of hill on Lake shore. |
| 55.00 | Intersect shore of Lake Michigan, Set post. from which a B. Oak 16 in. dia. bears N. 27 W. 10 2 Chs. dist. 7 a Sugar 9 " " " N. 85 E. 132 " " Land rich, first rate, the best we have |

T. 31 N. R. 14 W. Sec. Michigan.

chs. lks.

Seen on the Island. Timber, Beech, Sugar, Birch, some Cedar & Hemlock, with Mountain Ash etc. Herbage thick and luxuriant.

West between Secs. 7 & 18.

11.20 a Beech 12 in. dia.

24.71 a Sugar 18 in. dia.

33.00 To brink of hill on Lake shore.

38.72 Intersect shore of Lake Michigan.

Set post, from which
a Hemlock 8 in. dia. bears N. 17 E. 60 dist. 4
a Balsam 6 " " " S. 67 E. 55 " "

Land level & apparently rich. Black sand & pebbles, mostly lime.

Timber, Sugar & Beech, with scattering Birch. Sugar trees large. Beech small, tall & shifty - with a rich growth of herbage.

North between Secs. 7 & 8.

46 a Beech 16 in. dia.

6.00 Foot of small hill, course E. & W.

8.00 Top of same.

10.00 Foot, N. side, and Spring on Sec. 8, discharging into Sec. 7.

13.24 a Sugar 12 in. dia.

20.00 Set gr. sec. post, from which

a Beech 10 in. dia. bears N. 44 W. 37 dist. 4

a Do 6 " " " S. 46 E. 5 " "

48.00 Ascend a high ridge, course E. & W.

49.00 Small ravine, course E. & W. westerly.

57.00 Steep ascent.

65.00 Summit of ascent.

66.65 a Beech 9 in. dia.

80.00 Set post, corner to Secs. 5, 6, 7 & 8, from which

| | |
|-----------|--|
| chs. lks. | <p>a Sugar 12 in. dia. bears N. 53 E. 31 lks. dist. to a Do 10 " " " S. 47 N. 42 " "</p> <p>Land rolling with gradual slopes, south half west, to north half, ^{to} south-west + South.</p> <p>Timber, Sugar + Beech, generally small + thrifty growth.</p> |
| East | <p>Random between Secs. 5 + 8.</p> <p>14.00 Descend into a valley, and along the north side - hills, facing south and bearing off East + north-East.</p> <p>40.00 Set temporary ^{gr. sec.} post. Rise the hill bearing South.</p> <p>58.00 Intersected ridge, course N. + S. near N. end.</p> <p>62.00 Top of ridge.</p> <p>70.00 Descend gradually East.</p> <p>80.14 Intersected N. + S. line 12 lks. S. of post. Land, good S. rate - in the valley rich. Timber, Beech + Sugar. On the hills + ridges some Hemlock.</p> |
| West | <p>Corrected between Secs. 5 + 8.</p> <p>40.07 Set gr. sec. post. from which a Beech 10 in. dia. bears N. 9 E. 29 lks. dist. to a Sugar 15 " " " N. 6 E. 25 " "</p> <p>80.14 To Sec. corner. July 13, 1847.</p> |
| West | <p>between Secs. 6 + 7.</p> <p>7.21 a Sugar 4 5 in. dia.</p> <p>20.00 Steep descent, to West.</p> <p>27.50 Bottom of descent on hill.</p> <p>30.00 a Spring 3 chs. from line, on Sec. 7.</p> <p>40.00 Set gr. sec. post. from which a Sugar 10 in. dia. bears N. 26 W. 32 lks. dist. to a Do 10 " " " S. 3 W. 6 " "</p> |

Chs. Oks.
 41.00 Steep ascent.
 46.83 a Beech 14 in. dia.
 51.00 Summit of ridge, course N. + S.
 65.25 a Beech 15 in. dia.
 80.00 Set post corner to Secs. 6 + 7, T. 31 N. R. 14 W. and 1 + 12, T. 31 N. R. 15 W. from which a Beech 10 in. dia. bears N. 12 W. 21 Oks. dist. 4
 a do 16 " " " S. 34 W. 9 " "
 Land, first half handsome faced, with a general descent West. W. half broken. To 60 chs. crossing several points of ridges, from North.
 The last 20 chs. ridges reversed and come in from South.
 Timber, Beech + Sugar - tall + thrifty. Some very large Sugar trees.

North
 2.50 Random between Secs. 4 + 5
 4.00 Foot of hill, course E. + W.
 4.00 Top of same.
 40.00 Set temporary post, Land descending N. W.
 48.00 Intersect side-hill, descending into a valley, west.
 80.00 Intersect N. Boundary, to 2 Oks. N. of post. Land rolling near the gr. sec. post steep side-hills. Soil sand + gravel - apparently rich. A good growth of Sugar + Beech, with scattering large Hemlock. Some Birch + Lyan.

South
 40.00 connected between Secs. 4 + 5.
 Set gr. sec. post from which a Beech 8 in. dia. bears N. 54 E. 10 Oks. dist. 7
 a do 8 " " " S. 73 W. 17 " "
 80.00 To sec. corner.

T. 31 N. R. 14 W. Mer. Michigan.

| | |
|-----------|--|
| chs. lks. | |
| North | Random between Sects. 5 & 6. Land rolling, but not broken on very steep hills. W - general descent N. + N. E. |
| 70.00 | Intersect S. border of Cedar Swamp, course S. W. + N. E. |
| 80.00 | Intersect N. Boundary, 83 lks. N. of post. Soil rich sand & gravel, inclining to clay loam, first rate. Timber, Beech & Sugar with scattering Birch, Hemlock & Linn. Face of land gradually descending East & N. E. with points of ridges from S. W. + W. |
| South | connected between Sects. 5 & 6. |
| 40.00 | Set on Sec. post. from which a Sugar 14 in. dia. bears S. 65 E. 20 lks. dist. a do 8 " " " N. 16 W. 12 " " |
| 80.00 | To Sec. corner. |

Meanders of Lake Michigan in
Sec. 7, T. 31 N. R. 14 W. from Range line
between Ranges 14 + 15 N. 2.25 South of post.

| Courses | chs. lks. | Remarks. |
|------------|-----------|--|
| N. 67 E | 13.00 | In Sec. 7. Beech & Sugar front. |
| S 64 1/2 E | 13.00 | |
| S 53 E | 28.25 | At ^C 22.20 post on line between Sects. 7 + 8. |
| S 40 E | 13.00 | In Sec. 18. Hemlock border. |
| S 28 E | 22.00 | Beech + C. |
| S 30 1/2 E | 20.00 | |
| S 53 1/2 E | 6.00 | To line between Sects. 17 + 18. Hence |
| S 45 E | 42.55 | In Sec. 17. To post on line between |

INDEX MAP

T. 31 N. R. 14 W.

Mer. Michigan

| | | | | | |
|-----------------|-----------------|-----------------|-----------------|----|----|
| 220 6 236 | 220 5 236 | 219 4 233 | 219 3 226 | 2 | 1 |
| 7 235 | 8 233 | 9 231 | 10 226 | 11 | 12 |
| 18 234 | 17 231 | 16 224 | 15 224 | 14 | 13 |
| 19 | 20 230 | 21 226 | 22 223 | 23 | 24 |
| 30 | 29 | 28 228 | 27 227 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

N. Manitowish Island

Manitowish Bay 235

| | | |
|------------------------------------|-------|---|
| | | Secs. 17+20. Sand banks from 20 to 30 feet high, covered with Beech & Sugar. Thence |
| \$45 E | 35.00 | In Sec. 20. Same |
| \$34 E | 15.00 | Banks same. |
| \$28 ³ / ₄ E | 20.00 | Same. |
| \$23 ³ / ₄ E | 10.00 | Height sand slides. |
| \$34 E | 6.04 | To post on line between Secs. 20+21, thence |
| \$25 ³ / ₄ E | 12.50 | ^{in Sec. 21} To line between Secs. 21+28. 1.50 west of post - high sand banks, 1.50 W. Thence |
| \$27 ¹ / ₂ E | 10.00 | In Sec. 28 from N. line 1.50 west of meander post between Secs. 21+28. Bare sand banks. |
| \$40 E | 11.00 | Sand blow. |
| \$54 E | 25.00 | Point - not steep, but bald, north, cross line |
| \$70 E | 10.00 | |
| \$33 E | 11.00 | Leave sand blows. |
| \$57 E | 10.00 | } Steep sand-slides } side-hill. |
| \$70 E | 8.00 | |
| \$77 E | 8.00 | To post on line between Secs. 27+28. Thence |
| \$60 ³ / ₄ E | 10.00 | In Sec. 27. Leave sand slides. |
| \$53 ³ / ₄ E | 19.82 | Post on line between Secs. 22+27, thence |
| \$58 E | 17.00 | In Sec. 22. |
| \$72 E | 20.00 | Naked sand drifts & ridges. |
| \$76 ¹ / ₂ E | 24.00 | To post between Secs. 22+23, thence |
| \$63 ³ / ₄ E | 6.00 | In Sec. 23. A low sand bar point runs out to S. E. from 1/4 to 1/2 mile opposite this & 1/2 last course in Sec. 22. |
| \$27 ¹ / ₄ E | 14.00 | |
| \$52 ³ / ₄ W | 14.85 | To post on line between Secs. 22+23, thence |

T. 31 N. R. 14 W. Mer. Michigan.

| Courses | chs. Ans. | Remarks. |
|------------|-----------|---|
| N 45 E | 45.00 | In sec. 22. |
| N 29 W | 4.00 | Post on line between Secs. 15 & 22, thence |
| N 29 W | 26.00 | In sec. 15. at C. Co. Pickhards, wharf & buildings |
| N 77 1/2 W | 15.00 | |
| N 9 1/2 W | 8.00 | |
| N 11 W | 16.00 | |
| N 70 E | 19.83 | To Pine station on line between Secs. 10 & 15, thence |
| N 5 1/4 E | 80.12 | In sec. 10. To post on line between Secs. 3 & 10, thence |
| N 16 1/4 E | 21.00 | In sec. 3. |
| N 1/2 W | 35.00 | |
| N 17 E | 25.90 | To post on town line between Secs. 3 & 34. July 31, 1847. |

I Orange Risdon Deputy Surveyor, do solemnly swear that in pursuance of a contract with Lucius Lyon Surveyor General of the United States, for the States of Ohio, Indiana and Michigan; and in strict conformity to the laws of the United States, and his instructions; I have regularly surveyed and subdivided into sections North and Great Mamton Islands in Lake Michigan and State of Michigan; and I do further state that the preceding are the true and original field notes of the said Survey, executed as aforesaid.

O. Risdon.

Deputy Surveyor.

Subscribed & sworn to before me this 5th day of August 1848.
H. Burnham, Notary Public, Wayne County, Mich.

I certify that the foregoing transcript of
the field notes of the Survey of Islands in T. 31.
N. R. 14 W. Mer. Mich. has been correctly
copied from the original notes then on file
in this office

Surveyor General's office
St. Paul October 15th 1859

C. L. Gussner
Sur. Genl