

FIELD NOTES

Of the survey of the Explorer Boundary

Lines of Townships 4 & 5 South Range 31 East

Willamette Meridian, Oregon,

Executed by George S. Pershing

U. S. Deputy Surveyor, under his contract No. 373

dated Sept - 17, 1880

List of the names of the persons employed to assist in running, measuring and marking the lines of the foregoing survey :

William Gradon Chainman.

Olin W. Kosford Chainman.

----- Chainman.

Francis S. Lettenger Axeman.

----- Axeman.

----- Flagman.

PRELIMINARY OATHS OF ASSISTANTS:

We, William Gradon and
Olin W. Hosford

do solemnly swear that we will faithfully execute the duties of Chain Carriers, that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines, that we assist in measuring, to the best of our skill and ability.

William Gradon Chainman.

Olin W. Hosford Chainman.

----- Chainman.

Subscribed and sworn to before me, this -----

day of 27 Sept 1880

Warren Clark

Justice of the Peace

J Frank S. Pittenger and

do solemnly swear that we will well and truly perform the duties for which we have been severally employed according to instructions, and to the best of our skill and ability.

Frank S. Pittenger Axeman.

----- Axeman.

Subscribed and sworn to before me, this first -----

day of October 1880

George S. Pershwin
A U S Dep. Sur.

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

North on the West boundary of sec. 6
ca. $21^{\circ} 45'$ East,

4000 Set basalt stone $18 \times 8 \times 7$ on
steep North slope for $\frac{1}{4}$ sec. cor
A Tamarack, 12 in. di. br. East 1.2 chs. dist,
" " 10 " " " N. 80° W. 10 " "

50.00 A ravine opens West -400

54.00 Leave timber Co. E & W.

65.74 To a point on the South +100
boundary of Township 3, South
Range 30 East, 790 chs west
of the cor to Town. 3, South
Ranges 30 and $30\frac{1}{2}$ East
Set basalt stone $18 \times 8 \times 8$ and
post in mound of stone at
this point for cor. to Town-
ships 4 South Ranges 30 &
31 East. no trees

Land: Surface very broken; soil. 2nd
& 3rd rate; heavy timber Pine, Tama-
rack & Fir. some underbrush

Oct 18th 1880

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

North on the East Boundary of Sec. 1,
Pa. $21^{\circ} 00'$ East

6.50 Wagon road w. N. E. & S. W.

40.00 Set basalt stone $17 \times 10 \times 8$

on S. E. slope for $\frac{1}{4}$ sec. cor.

A Tamarack 12 in. di. br. East 135 lbs dist.

" Pine 18 " " " N. 67° W. 108

65.64 Intersected South Bound⁺²⁰⁰

ary of Township 3 South

Range 31 East 21.24^{chs}

west of corner to Sec. 35 &

36 and set pine post

on level for corner to

Townships 4 South Ranges

31 & 32 East from which

A Pine 6 in. di. br. S. 54° E. 20 lbs. dist.

" " 8 " " " S. 42° W. 26 " "

Land: Surface Mountainous;

Soil 3rd & 2nd rate. Mostly

heavy timber some open

glades. Pin Tamarack & Fir. some grass

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

S. 89° 55' West on the ^{old} true line
along the North boundary of sec. 1
wa 20° 30' East

1880 1/4 sec. cor. in good condition
and witness

4000 Set basalt Stone 18x8x6 on west
slope for 1/4 sec. cor.

A Pine 18 in. di. brs. S. 40° E. 61 lbs dist

5904 Cor. to sec. 34 & 35 T 3 S. R. 31 E. a stone

- A Pine 8 in. di. brs. N. 28° E 27 lbs dist
- " " 6 S. 20° E 41 " "
- " " 5 S. 56° W. 36 " "
- " " 6 N. 2° W. 40 " "

8000 Set basalt Stone 16x10x5 on small level
table land for cor. to sec. 1 and 2

A Pine 32 in. di. brs. S. 25° E. 92 lbs dist,

" " 18 S 34° W 95 " "

Land: Surface Mountain plateau;
Soil. 3rd & 2nd rate; heavy timber
with open glades; Pine Tamarack
& Fir; some dense underbrush
young Fir & Tamarack. good
grass in openings

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

S. $89^{\circ}55'$ West on the true old line
along the North boundary of sec. 2
wa. $20^{\circ}00'$ East.

19.22 Old $\frac{1}{4}$ sec. cor. in good repair
40.00 Set basalt stone $14 \times 12 \times 6$ on
steep South slope for $\frac{1}{4}$ sec. cor
A Pine 18 in. di. brs. S. $25^{\circ}W$. 7 lbs. dist.

59.44 Old cor. to sec. 33 & 34. T 3 S. R. 31 East
A Pine 48 in. di. brs. N. $10^{\circ}E$. 80 lbs dist.
" " 18 " " N. $18^{\circ}W$ 98 " "

Stone $20 \times 10 \times 8$ - cor in good condition
80.00 Set basalt stone $16 \times 10 \times 8$ on steep - 100
South slope for. cor. to sec. 2 & 3
A Pine 18 in. di. brs. S. $78^{\circ}E$ 142 lbs. dist.
" " 24 " " " S. $42^{\circ}W$. 86 " "

Land: Surface Mountainous; soil
3rd & 2nd rate; Pine Tamarack
and Fir timber with open glades;
good grass; a small part
good farming land

Exterior lines of Township No. 4 South Range 31 East
 Willamette Meridian, Oregon.

S. $89^{\circ} 55'$ West on the Old true line along
 the North boundary of Sec. 3
 Co. $18^{\circ} 45'$ East

1942 Old $\frac{1}{4}$ Sec. cor. in good repair
 4000 Set basalt stone $12 \times 10 \times 8$ on
 steep south slope for $\frac{1}{4}$ Sec. cor.

A Pine 48 in. di. brs. S. $2^{\circ} W.$ 97 lbs dist

59.54 Old cor. to Sec. 32 & 33, T³ S. R. 31 East

A Pine 15 in. di. brs. N. $40^{\circ} E$ 68 lbs dist

" " 22 " " " S. $76^{\circ} E$ 50 " "

" Fir 10 " " " S. $50^{\circ} W.$ 19 " "

" Pine 30 " " " N. $20^{\circ} W.$ 97 " "

8000 Set basalt stone $12 \times 12 \times 5$ - on south slope⁻³⁰⁰
 for cor. to Sec. 3 & 4

A Pine 20 in. di. brs. S. $14^{\circ} E$ 106 lbs dist.

" " 24 " " " S. $12^{\circ} W.$ 39 " "

Land: Surface Mountainous; Soil
 3^{rd} & 2^{nd} rate: Pine timber with
 open glades: good grass
 Small part good farming
 land

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 Explorer lines of Township No. 4 South Range 31 East
 Willamette Meridian, Oregon.

S. 89° 55' West on the Old true line along
 the North Boundary of Sec. 4
 Va. 20° 00' East

19.44 Old 1/4 Sec. cor. in good repair

38.00 brook 15 lbs. wide co. South - 200

40.00 Set basalt Stone 12 x 12 x 10 on
 East slope for 1/4 Sec. cor.

A Fir 10 in. di. br. South 44 lbs. dist.

59.50 Old cor. to Sec. 31 & 32, T. 3. S. R. 31 East

A Pine 22 in di br. N. 55° E. 23 lbs. dist.

" " 28 " " S. 50° E. 35 " "

A Fir 18 " " S. 71° W. 20 " "

" " 24 " " N. 50° W. 43 " "

63.00 Spring branch co South x

80.00 Set basalt Stone 16 x 12 x 5 on + 200

S.E. slope for cor. to Sections
 4 and 5

A Pine 13 in. di. br. S. 59° E. 82 lbs. dist.

" " 28 " " " S. 54° N. 50 " "

Land: Surface broken & Mountain-
 ous; Soil 3rd & 2nd rate; heavy
 timber in places but mostly
 open. Pine, Tamarack & Fir.

Oct 20 1880

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

S. 89° 55' West on the old true line along
the North Boundary of Sec. 5
Va. 19° 30' East

- 19.72 Old 1/4 Sec cor. in good repair
- 24.50 Wagon road cor. N & S,
- 30.00 Summit of ridge cor. N. E & S. W. +150
- 40.00 Set basalt stone 20 x 8 x 8 on
N. W. slope for 1/4 Sec cor
A Fir 20 in. di. brs. S. 13° W. 37 lbs dist

- 61.70 Cor. to T 3. S. Ranges. 30 1/2 & 31 East -
Pine 24 in. di. brs. N. 53° E 190 lbs dist -
" 14 " " " S 11° E 283 " "
" 12 " " " S 17° W. 196 " "
" 28 " " " N. 55° W. 111 " "

80.00 Set basalt stone 14 x 10 x 8 on -230
Small plateau for corner. to
Sec. 5 and 6

- A Pine 14 in. di. brs. S. 14° E 590 lbs. dist.
- " " 5 " " " S. 42° W. 127 " "

Land: Surface E. 60 chs. Mountainous
W. 20 chs rolling; Soil 3rd & 2nd rate
Mostly heavy timber. Pine. Tamarack
and Fir. Some good farming
land. or 1/2 mile

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Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

West on old ^{line} line along the
North boundary of Sec. 6
On $21^{\circ}15'$ East

21.90 Old $\frac{1}{4}$ Sec. cor.

36.00 Leave timber w. N. & S.

40.00 Set basalt stone $17 \times 12 \times 8$ in

Mound of stone on South
slope for $\frac{1}{4}$ Sec. cor.

61.60 Old sec. cor. for 35 & 36 T³S. R. 30 & E

73.30 Cor. to T³S Ranges 30 & 30 $\frac{1}{2}$ E

84.20 The cor. to Townships 4 - 300
South Ranges 30 & 31
East

Land: Surface very rolling
Soil: 3rd & 2nd rate. Some
pine timber good grass
Some good farming land
Oct 21 1880

Exterior lines of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

The apparent excess of the north boundary of this Township. I doubtless arises from the brokenness of the surface over which the line extends, and a consequent inaccuracy of measurement. My chainmen did not have a large experience in chaining broken surfaces.

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of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

General Description
This Township is mostly
undulating and level.
about $\frac{1}{5}$ is mountainous
and broken. about $\frac{1}{4}$ is
covered with Pine Tam-
arack & Fir timber.
The larger part is either
2nd or 1st rate soil and is
well adapted to farming
The 3rd rate soil is well
adapted to grazing. there
are about 20 settlers in
the township & should be
subdivided.

of Township No. 4 South Range 31 East
Willamette Meridian, Oregon.

I took observation on Polaris
at its vertical plane with
Alidath on the night of October
18th and on the following morning
Oct 19th My compass indicated
an error of 4" West

And on the night of the 19th
Oct repeated observation and
on comparison My instru-
ment indicated an error

of 5 minutes west on the
20th Oct 1880

FINAL AFFIDAVIT OF ASSISTANTS.

We hereby certify that we assisted George S.

Pershin Deputy Surveyor, in surveying

the Exterior lines of Township N. 4 and
5 South Range 31 East Willamette Meridian, Oregon,

and that said lines have been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instructions furnished by the Surveyor General; and we do further swear that we each of us performed the work assigned us, faithfully to the best of our ability, in the capacity hereby indicated by our signatures.

William Gradon Chainman.

Olin Hosford Chainman.

Chainman.

Francis S. Pittenger Axeman.

Axeman.

STATE OF OREGON,
County of Umatilla }

Subscribed and sworn to before me, this 30th
day of October 1880

George S. Pershin
A. W. S. Dep. Sur.

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Diagram of T. No 5 South R. 31 East

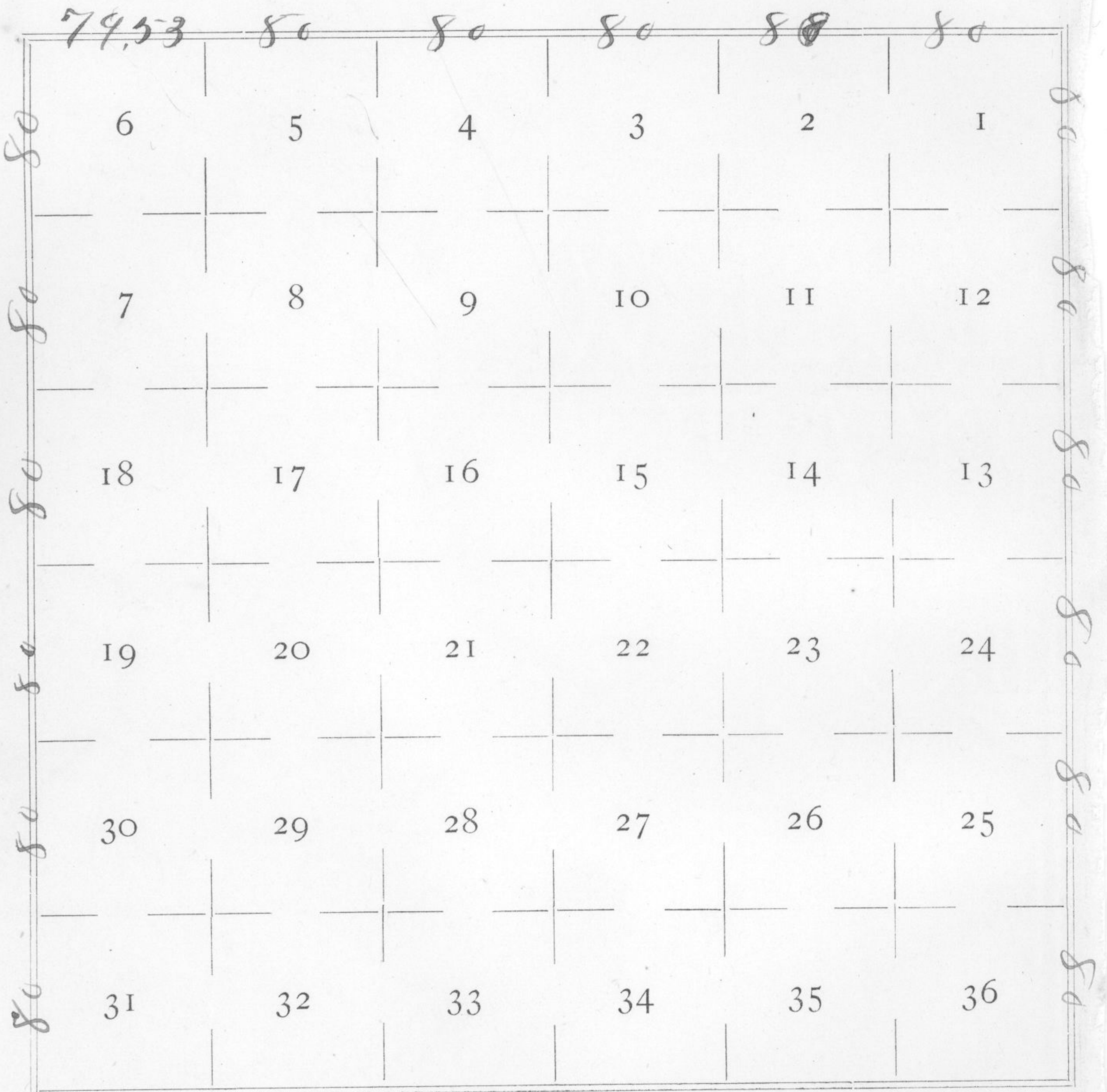
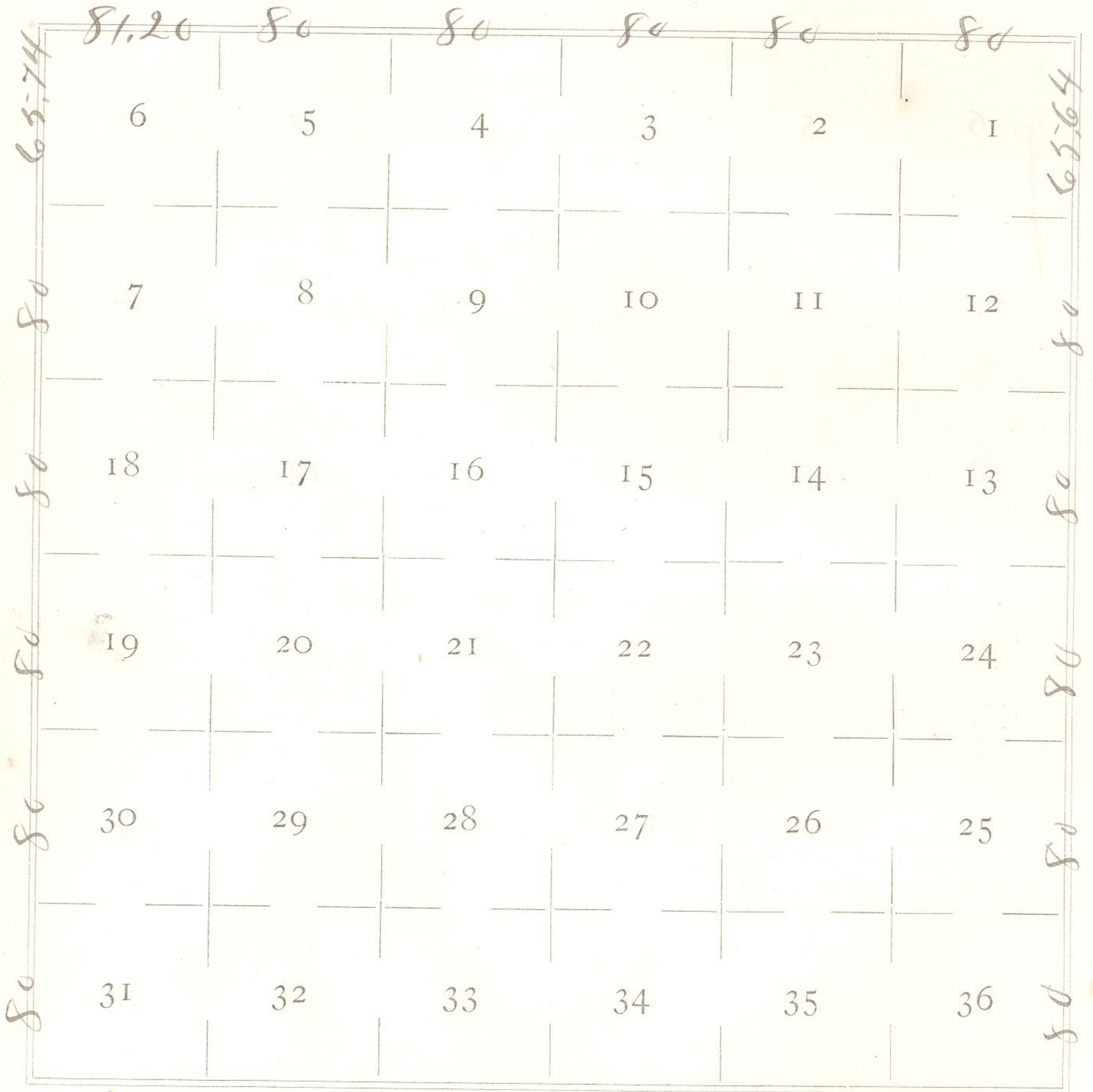


Diagram of T. R.

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | I |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

Diagram of T. No 4 South R. 31 East



OATH OF CHAINMEN.

We, William Gradon and
Olin W. Hosford Chainmen, hereby certify
 and solemnly swear that we have carefully and faithfully chained all the lines of the
 surveys shown by the annexed diagram of township 485 South Range
31 East, and that the measurements of the same, as determined
 by us, are correctly recorded thereon.

We further certify that the chains used by us in the aforesaid surveys were daily
 compared and corrected by standard measure; that all distances have been obtained
 by horizontal measurements, and that we have in all other respects discharged our
 duties in accordance with legal instructions.

William Gradon

Olin Hosford

Subscribed and sworn to before me, this thirtieth day of

October

1880

George S. Pershin
A. W. S. Dep. Sur.

OATH OF AXMEN AND MOUNDMEN.

We, Francis S. Pittenger
axmen and moundmen, in the
 survey of Exteriors of Townships 485 S. R. 31 East,
 hereby certify and solemnly swear that we have carefully and faithfully marked all
 the true lines and corners of the said surveys upon which measurements are shown
 upon the diagram hereto attached, in accordance with instructions and the require-
 ments of the surveying manual.

Francis S. Pittenger

Subscribed and sworn to before me, this thirtieth day of

October

1880

George S. Pershin
A. W. S. Dep. Sur.

FINAL OATH OF DEPUTY SURVEYOR.

I, George S. Pershin
 United States Deputy Surveyor, do solemnly swear that I have, in my own proper
 person, and with the necessary assistance, well, truly and faithfully executed the
Exterior boundary surveys of Townships
4 & 5 South Range 31st East under my contract with
James C Tolman, United States Surveyor-
 General for Oregon, No. 373, bearing date September
17th 1880; that in making the said survey I have used only such instruments
 as were approved by the said Surveyor-General, exercising due care in the preser-
 vation of adjustments of the same; that in using the solar compass I have at no time
 projected established lines depending for alignment upon the magnetic needle; that
 I have in all respects complied with the laws of the United States governing public-
 land surveys, the surveying manual, and such additional instructions as have been
 furnished me by and through the said Surveyor-General relating to the aforesaid
 survey; that I have thoroughly acquainted my assistants in the field with the nature
 of their duties under the laws and instructions above mentioned; that to the best of
 my knowledge and belief all assistants so employed have likewise obeyed the afore-
 said laws and instructions, and that the annexed field-notes are the original, true
 and correct returns of the said surveys.

George S. Pershin
 Deputy Surveyor.

Subscribed and sworn to before me, this Nov 16 day of

1880

James C Tolman
 Surveyor General

I-----
 Deputy Surveyor, do solemnly swear that in pursuance
 of a contract with-----
 U. S. Surveyor General of the State of Oregon, bearing
 date the----- day of----- 18-----,
 and in strict conformity with the Printed Manual of
 Instructions, and the instructions given me by the Sur-
 veyor General, I have faithfully surveyed the-----
 ----- lines of Township

 ----- aforesaid, and do
 further solemnly swear that the foregoing are the true
 and original field notes of such survey.

 Deputy Surveyor.

STATE OF OREGON, }
 County of----- }

Subscribed and sworn to before me, a-----
 ----- in and for the said County
 and State, this----- day of----- 18-----

Office U. S. Surveyor General,

Portland, Oregon, *Nov. 17* 1880

The foregoing Field Notes of the survey of *the*
Exterior bdy. lines of Townships
48.5 S. Range 31 E. Will. Merid
Ogn

executed by *George S. Perchin U.S.*

Dep. Sur. under his contract No. *373*

dated *Sept 17* 1880, having been
 critically examined, the necessary corrections and ex-
 planations made, the said field notes and the survey
 they describe, are hereby approved.

James C. Tolman
 Surveyor General.