# 

Portland, Oregon, Sept 20 1878

George T. Pershin

U. S. Deputy Surveyor.

- I. SIR:—In prosecuting the surveys embraced in your contract No. 305 dated Sefet 20, 1878, which must be executed by you in person or under your direct personal supervision, you are required strictly to adhere to the system of public surveys, and comply with the Manual of Printed Instructions, with the exceptions hereinafter mentioned:
- 2. In addition to the manner of establishing corners of public surveys by mounds of earth with deposits at the point of the corner, you are required to drive in the center of one of the pits at each Section and Township corner, sawed or hewed stakes, not less than two inches square and two feet in length; said stakes to be marked in the manner prescribed in the Manual for marking corner posts, and to be driven one foot in the ground. At corners common to four Townships or Sections, the stakes are to be driven in the pit southeast of the mound, and at corners common to two Townships or Sections, they are to be driven in the pit east of the corner. This requirement does not apply to quarter-section corners.
- 3. In all cases where stones are used for corners, you will dig pits in the same manner as for corners, marked by posts and mounds.
- 4. In surveying lands bounded by waters affected by the ebb and flow of tides, you will extend the lines of surveys to high water mark only.
- 5. Where it becomes necessary to meander a stream, you will meander both banks of the same, instead of one bank as required by the Printed Manual of Instructions.
- 6. In the execution of your work you will be particularly careful not to extend Township lines from north to south, but to commence in every instance from a proper standard-line, and work from south to north as required by the Mannal.
  - 7. No lands shall be surveyed except—
    - I. Those adapted to agriculture without artificial irrigation.
- II. Irrigable lands, or such as can be redeemed, and for which there is sufficient accessible water for reclamation and cultivation of the same not otherwise utilized or claimed.
  - III. Timber lands, bearing timber of commercial value, foreign or domestic.
  - IV. Coal lands, containing coal of commercial value.
  - V. Exterior boundary of town sites.
  - VI. Private land claims.
  - VII. You will survey no lands which subserve merely pastoral or grazing interests.
- 8. This office is instructed in letting contracts for the subdivision of the public lands, to stipulate the condition that the survey must include all the lands in the Township contracted for subdivision which are by law classed as surveyable, and not to contract for fractional townships simply to cover the full amount of any liability.
- 9. Except in case of triangulation, you will be required to start from the proper base or standard parallels. If these last shall not have been established that must first be done, and then, if there are no exterior lines of the Township surveyed, you must first survey them, and finally subdivide the Township into Sections, running, measuring and marking the line from *south to north*, except where by reason of impassable objects the south boundary of a Township cannot be established an east and west line should be run through the Township, first random and then corrected, from one range line to the other, and as far south as possible, and from such line extend the Section lines north in the usual manner, except over any fraction south of said line which may be surveyed in the opposite direction from the Section corners on the auxiliary base thus established.
- In cases where Townships have formerly been partly surveyed, and you are required to complete the same, you will, in your field notes, fully describe the old corners identified by you, and from which you start in the completion of your surveys, giving the kind of corner, bearing trees, and other witnesses to the same, so that there need be no doubt as to the corner from which additional surveys are initiated.
- II. In cases where only exterior lines have been run, and you are required to subdivide a Township, you will either describe particularly all the corners on the south Township line from which you start, and the

corners on the east, north and west Township lines upon which you close; or, if you find such corner corresponding to the description furnished you by this office, then you must state that fact in your field notes; and if a corner on a Township line should be re-established by you your field notes must show in what manner you have done the work. No mountains, swampy lands, or lands not classed as surveyable by law, are to be meandered. All lines approaching such lands must be discontinued at either the Section or Quarter Section corners.

- 12. In all lines, including meander lines, you will be particular to state in your field notes whether the land is mountainous or heavily timbered, between the corners and at the line.
- 13. When you meet with insuperable objects on line, and are obliged to make offsets by right angles, or traverse, or trigonometrical operations, you will make the notes full and explicit in the proper place, in the field book, stating the distance over such obstacle.
- 14. If you find it necessary or proper to change or modify your contract after arriving in the field, such as the substitution of an arable for an unarable Township named in the contracts, you must immediately report the same to this office and obtain the consent of your sureties to such change.
- 15. Instead of squaring the posts on the top and making a cross line, you will chamfer off the sides of the posts that are squared or flattened, to a point, at an angle, with the sides of 45°. The angles that were formed by the chamfering will occupy the same position on line as the lines would on the squared top of the stakes.
- 16. You will be required to use "Burt's Improved Solar Compass," or some other instrument equivalent to it, in surveying Township lines, and also in subdividing, where the variation of the needle is irregular.
- 17. The variation of the needle must be noted at each Section corner preceding the notes of measurements, and intermediate between Section corners if there is found any material change of variation; state the variations at the proper place on the map you return to this office.
- 18. Any excess or deficiency in the length of any Township boundary line, or excess of error in the falling off from the corner to which any section line shall be run that may exceed four chains, or any excess or deficiency exceeding one hundred links in the length of any section line, or excess of error in the falling off from the corner to which any section line shall be run, that shall exceed one hundred links, in closing the lines of a whole Section, and at the same rate for the Section lines, and at the rate of one chain and twenty-five links per mile of the meanders of a navigable river or other water course, with the line or lines of a fractional Section, must be corrected by you and reduced within those limits before leaving the ground, by remeasuring the line or lines which may have occasioned the excess or deficiency in the length of such Township or Section lines, or excess of error in closing the lines of a Township or of a whole or fractional Section, and state at length all of your proceedings in making such correction in the proper place in your field book.
- In all cases the courses of closing lines, that is, corrected random lines, should be given in the field notes and placed on the maps returned to this office, and the full field notes are to appear on the true or corrected lines.
- 20. Whenever a distant and distinctly prominent mountain spur, peak, ridge, or any other interesting object attracts attention on either side of your line of surveys, you will aim to select some peculiar and distinguished point or part of it for a sighting object, providing the same can be viewed from any other station on the line of your surveys so as to admit also of taking an angle or bearing of such object from three or more points, carefully noting the same in your field book, in the proper place, noting all the particulars and description of the object. (Pay careful attention to requirements under this head on pages 18 and 19 of the Manual.)
- 21. The diagrams mentioned on the 16th page of the printed instructions will be on scale of two inches to the mile for the lines of each Township subdivided. You will also return a connected map on the scale of three miles to the inch, showing the Exterior lines of Townships surveyed by you.
- 22. You will be required to make return of your field notes in person; and if there are any blots, blurs, or interlineations in your original field notes, or if they are not plainly or legibly written, you will be required to make a full and correct copy of the same in a neat and distinct manner returning the original notes with the copy, accompanied with your affidavit that the copy is correct and true of the original.
- 23. In prosecuting your surveys under your contract before named, you are instructed to ascertain from the best information you can obtain, and your own observation, the extent of country lying contiguous to, and in the vicinity of your work, which is or may become settled, and report the same to this office from time to time during the progress of your work. At the close of each day's work you will note the date in your field notes.
- 24. Any field notes returned to this office unaccompanied by the proper plats will be returned to the Deputy for correction, the same as in any other error.

U. S. Surveyor General, Oregon.

#### FIELD NOTES

on.

Of the survey of the Subdivisional

Lines of Township 3 Forth Range

366, Willamutte Meridian, Oregon.

Executed by George G. Pershine

U. S. Deputy Surveyor, under his Contract

No. 305 dated Sept 20 1878

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

Herman J. Gradon Chainman.

Marion O Harra Chainman.

Chainman.

Sanford Shaw Axeman.

Axeman.

Compassman.

Flagman.

ARY OATHS OF ASSISTANTS. Corrington S. newell& Marion Of 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. ceeace D. Gradon Chainman. Chainman. 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 my skill and ability. Subscribed and sworn to before me, this. 24h.

### INDEX.

Referring the lines to the pages of the field notes.

Town. 34 Range 36 Willamette Meridian.

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		31 19

4 A 56 Subdivisions of Township No. 3 South Range 3.6
East Willamette Meridian, Oregon.

For the purpose of comparing my running and chaining Bour daries of this Towns hip, and also to ascertain if there are any material Errober in the Survey of the Exterior Bounda ries. I begin at the corner to Sections II and 12 on the East Boundary of this Towns his No 3 North Range 36 Gast; and with Burts Amproved Solar Compas of carefully run and measure a blank lline. South along the East Boundary of Lection 12 Va 16° 6 ast 79.60 To a point 5 lks East-of Stone Corner to Sections 12 and 13 there South along the O. Boundary of Section 13 Va. 15° East

Subdivisions of Township No. 3 South Range 36. 457 East Willamette Meridian, Oregon. 79.20 To a point 33 lhs west of corner to Sections 13 and 24 Thence South along the Gast Bound Da. 20° East 76.48 To a point 75-les west-of corner to Sec. 24 and 25- Ishowing an error of 35-2 lks in the leng Hv of this line September 27' 1878 South or the Gast Boundary of sec 25 1 va 20° 6 ast-79.65 To a point 45-lks west of Corner. to Sec. 25 and 36. Ehence South along the Gast-Boundary of Section 36. Va. 20° 6 ast 79.80 To a point 65 lks west of corner. to Townships 2 and 3 Stouth Ranges. 36 and 37 Gast-showing a différence un measurement

Subdivisions of Township No. B. South Range 36 East Willamette Meridian, Oregon. and but a small difference in coursing. Thence on a blank line alon Lec tion 36 Va. 21° Cast 79.48 Toa point 14 Oks North of otone corner to sections 135 and 36 on the south Boundary of the Township Stone wery boorly mar ked. Dt Should have had a Stone mound built-around it. Stone mounds make the most this part of the country. Having Sufficiently tested the Exteriors and Jounes The

Subdivisions of Township No. 3. South Range 36.

East Willamette Meridian, Oregon.

East on a random line between sec. 13 and 24 4000 Let post for lemporary 1/4 See. cor. 79.80 Intersected E. Boundary 395 lks 24 from which corner Drun Sh. 87° 11' West on a true line between Sections 13 and 24 Da. 20° East-.5.50 Groß redge to N. M. siede -40. =37.00 River Bottom N.E & S. W. - 800 "Alder 4 " " N. 44°W. 24 " " 51.00 Cometilla 75 lks. Wide course A.M. 65.00 Steep bluff A. 6 48. M. 7980 Thecor, to Sec. 13.14.23 and 24 +200 Land: Surface mountainers Soil 3 2 2 Small part on river bottom 1 rate; Dome gvod limber Fir. Tamarack Sine and Balm; Alder & Willow underbrush; graf sin open glades.

Subdivisions of Township No. 3 South Range 36 East Willamette Meridian, Oregon. North between Sections 13 and 14 Ora, 18° 45' 6 ast Up irregular. East hillsride 40.00 det Stone 14×12×4 on North side + 350 A Pine 16 in diam brs. S 64° E. 30 lks. dist 73.00 Enter timber N. E. 4 S. M. 80.00 Set post on top of bluff for con. 700 To See. 11. 12. 13 and 14 from which AFir 11 in. diam. brs. N. 76°6. 20 lks dist.
"" S 54°6 30 "" Maple 6 " " S 22° W. 30 " " Fir 6 " h. 38° M. 33 " " Soil 3 rate small part on top of bluff 1" rate; good timber on A. 7 chs Pine, Tamarak and Fir, good bunch graß on open ground. October 14/878.

Subdivisions of Township No. 3 South Range 36

East Willamette Meridian, Oregon.

Gast on a random line between Secs. 12 and 13 Va. 22° 6ast 40,00 Set port for temporary 1/4 Sec. cor.
79.10 Intersected E. Boundary 468 lks
North of stone cor. to Sec. 12 and
13 from which cor. A run N. 86° 39' West on a true line between Sec. 12 and 13 Cla. 150 East 39.55 Det Stone 16 x 8 x 5 on rocky + 400 point for 1/4 Sec. con 7400 Enter timber N. E. A.S. M. 79.10 The Cor To Sec. 11.12.13. and 14 + 250. Sand: Surface mountainous; Soil 3 de rate small part on Top of bluff 1st rate; good timber on West 5 chs Pine. Tamarack and Fir. Willow underbrush: good bunch graß on open hillside

In The exterior Boundaries of this Township. The corners and witness trees were all as represented except the following 607 10 Sec. 34 and 35 on South Boundary which Hould not find. and which I replaced as given in the field notes Also. The corner to see. 13 and 24 on the Gast Boundary. The post and Stone mound were as represented but the courses and distances . It Witness trees were APins 8 in diam. brs. N.30°W. 154 ets dis
"" 10 " " N.10°E 170 " 4

## FINAL AFFIDAVIT OF ASSISTANTS.

We hereby certify that we assisted	George
Pershin	Deputy Surveyor, in surveying
	, ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
the Subdivision li	nes of Journey
3 A. Range 36 Gast	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 cording to the instructions furnished by the	
further swear that we each of us performed t	he work assigned us, faithfully to
the best of our ability, in the capacity hereb	by indicated by our signatures.
2/ 00	
Herwau D. Grac	Love Chainman.
M. m/1	
Marion Offar	Ea Chainman.
	Chainman.
	4
0 1 11	
sampord In	ans Axeman.
	Axeman.
	Compassman.
STATE OF OREGON,	
County of Amalille	
Subscribed and sworn to be	efore me, this 23
day of October	
of y p	enellen
D. 11. TO O. C.A.	Att Por la
grance of	the Per Ce

george S. Tershin
Deputy Surveyor, do solemnly swear that in
pursuance of a contract with James 6 Tolman
U. S. Surveyor General of the State of Oregon,
bearing date the 20 day of September
1878, and in strict conformity with the Print-
ed Manual of Instructions, and the instruc-
tions given me by the Surveyor General, I have
faithfully surveyed the Subelivision lines
of Township 3 North Range 36 Gast
aforesaid, and do further solemnly swear that
the foregoing are the true and original field
notes of such survey.
George Dorskun
Deputy Surveyor.
STATE OF OREGON,
County of Mullnomah
Subscribed and sworn to before me, a Holowy
Public in and for the said County and
State, this Lay of December 1878
Holary Public in Months South
Sout County Miles

#### Office U. S. Surveyor General,

Portland, Oregon, Jan 20 1879,

The foregoing Field Notes of the survey of

The Subelivision al of T. 3 NR, 36 & executed by Seo. S. Jeashin,

Dated 201878, having been critically examined, the necessary corrections and explanations made, the said field notes and the survey they describe, are hereby approved.

O. Meneral.