UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

FIELD NOTES

of Dependent Resurvey of

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14 JAN 30 1941
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INDEX DIAGRAM.

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INDEX DIAGRAM.

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Township 4 North, Range 27 East.

These surveys were executed with a solar transit made by Buff and Buff, Serial No. 9987, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of 42 ins., with double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes; the telescope has fixed stadia wires, ratio 1:132, with focal constant of 1.2 lks. The instrument is equipped with improved Smith solar attachment; radius of latitude arc 22 ins., and declination arc 32 ins., each with verniers reading to single minutes. The instrument was in good condition, having been placed in satisfactory adjustment prior to beginning the survey and tested and found free from appreciable error, was approved by the district cadastral engineer on January 21, 1941. I examined all the instrumental adjustments before making the field tests hereinafter recorded.

The direction of all lines were determined by solar transit method, checked by direct observations on the sun. At least one direct observation was taken every day possible, the deflection angles turned with care and azimuth checked by comparison with solar observations and with all lines intersected. The azimuth of these lines was also checked on a meridian and base line, established in this township by the army engineers. The measurements were made with a Lallie steel tape, 5 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tape was tested by comparison with a Lufkin Standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position of the cor. of Tps. 1 and 2 N., Rs. 27 and 28 E., as follows: latitude 45°36'N., and longitude 119°22 ± W.

May 2, 1940; at camp located at Hermiston, Oregon, in latitude 45°50'N., and longitude 119°18'W., at 5h 5m 9s a.m., l.m.t., or 5h 2m 2ls a.m. by my watch, which reads correct 120 meridian time as determined by radio signals I observe Polaris at Eastern elongation, making two sights each with the telescope in direct and reversed positions. and place a tack at the mean point, on a peg driven firmly in the ground 10 chs. N. After sunrise I lay off the azimuth of Polaris 1°27'59" and make a meridian mark on a peg 25.59 lks. (16.89 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

In order to verify the latitude of this station and the reading of my watch, I make a meridian observation neddon of the sun, first setting on the lower limb and noting editos of the west limb, then after reversal of the instrument, setting on the upper limb and noting the

transit of the east limb, as follows:

At point for cor. Mean observed altitude ----- 59° 38' 00" 2m 48s Watch slow of l.m. t. ----------Same, by reference to radio time signals and calculated difference in longitude -----2m 48s

> Every 30 min. from 6 to 10:30 a.m. and from 1:30 to 6 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less

I repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent inter-

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Township 4 North, Range 27 East.

Chains

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vals throughout the survey. The observed magnetic declination is 21° 00'E.

Dependent Resurvey of 1st Standard Par. N., S. Bdy. equoseles ent ; setunin Figh. et R. 27 Et geinger elduob

"Reestablishment of the surveys executed by H. J. G. Maxon and Jared S. Hurd, Deputy Surveyors in 1860, and the east la miles resurveyed by N. O. Walden, in 1874."

Preliminary to the resurvey all lines are retraced and diligent search is made for all original corners. Identified corners are reestablished in their original positions and all lost corners are reestablished by proportionate measurements based on the official record of the original survey. The retracement data is thoroughly verified and in the interest of simplicity only the true line notes are shown herein.

I commence the dependent resurvey of the 1st standard parallel N., S. Bdy. of T. 5 N., R. 27 E., at the standard cor. of Tps., 5 N., Rs. 26 and 27 E., which is etnit at be an iron post, 3 ins. diam., 9 ins. above ground, firmly set, marked and witnessed as described in the official every link for the first 100 lks., and one sance at inter

The geographic position of this cor. is latitude 45° 52'N., and longitude 119°30'W.

was ascertained by a clinometer in good adjustine; the north property of the north of the record.

N.89°47'E., on true line along S. bdy. of sec. 31.

Over rolling land, through scattering sagebrush.

39.72 Proportionate measurement.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with broken glass deposited at the base, for standard 4 sec. cor., with brass cap marked

end place a tack at the mean point, on a peg driven firely in the ground 10 chez 3: After sunriss I lay off the

peg 25.59 lks. (10.874et.) to the west of the mean point in the line determined by the observation; I verify the

.insuratent ent to anibser reinter s yd eldig pits,

18x18x12 ins., E. and W. of post, 3 ft. dist.

79.44 The standard cor. of secs. 31 and 32, which is the rotten remains of old stake, bearing traces of incomplete scribe marks.

> At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with the marked stake deposited at the base, for standard cor. of secs. 31 and 32, with brass cap marked standard cor. of secs. 31 and 32, with brass cap marked

transit of the east limb, as follows:

----- ebutignol ni eogecelib bedsluolso Hvery 30 min. 15N R27E silvery 30 min. of che arcs of the solar in. of the solar in.

attachment and ascerice that the resulting orientation of the instrument, when compared with the meridian estab-

eset to mora muminam a sad , noitsvreado airaloq yd bedaig pits, 18x18x12 ins., N., E., and W. of post, 3 ft. dist.

end verify the meridional indications at frequent inter-

4-673 b

Dependent Resurvey of 1st Standard Par. N., S. Bdy. T. 5 N., R. 27 E.

Chains . S bas . T aread , beer beberdig pits, 18x18x12 ins., N., E. and W. of post, 3 ft. dist. . Inemerusaem etamolitogorf OF. Oc From this point, the standard cor. of secs. 32 and 33, ent T. 5. N., R. 28 E., bears S. 89.576E., 160.60 chs. dist., as a basalt stone, 12x10x9 ins., set under surface of road, beggen de extending E. and W., and marked with a cross (X). At point for cor. Set an iron post, 3 ft. long, 2 ins. ldiam., 48 ins. in the ground, 1 ft. under surface of road, with basalt stone deposited at the base, for standard cor. of secs. 32 and 33, with brass cap marked S32 S33 antifor busi Soil, sandy; 2nd rate. . boowsessars bus deurdease 1941 vorsaebuu ; reduit on At a point 25 lks. N. of true cor. E. 09°57'E., along the S. bdy. of sec. 30. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the . ground, with broken glass deposited at the base, for witness cor. to the standard cor. of secs. 32 and 33, with brass cap marked demenuasem essociatiogora 21.01 set an iron post, 300 Sto long, lin. diam., 27 ins. in the ground, with but88m R2Tes deposited at the base, for bearam deo sasad dati832.833 .oos t basbasts WC 25 N 1941 Land, rolling. Soil, sandy; 2nd rate. No timber; undergrowth, sagebrush and greasewood. loxib . if . daog to .W bae . E . ami Sixdixdi Dependent Resurvey of the East Bdy. of T. 4 N., R. 27 E. tremeruseem etemoitrement "Reestablishment of the surveys executed by Ebenezer E. Haft, Deputy Surveyor in 1860 and resurveyed by N. O. asad do Walden, Deputy Surveyor, in 1874.". 100 galeolo I commence the dependent resurvey of the E. bdy. at the cor. of Tps. 3 and 4 N., Rs. 27 and 28 E., which is a basalt stone, loxloxlo ins., set under surface of road, bearing N. and S., and marked with a cross (X). Thence N.0°07'W., on true line bet. secs. 31 and 36. Over rolling land, along road. 1.15 House, bears W., about 1.00 ch. dist. Barn, bears W., about 1.00 ch. dist. 25.90 House, bears E., about 1.50 chs. dist. The 1 sec. cor., which has been perpetuated with a basalt stone, 16x10x8 ins., set under surface of roads, bearing N., S., and E., and marked with a cross (X). At point for cor. Set an iron post, 3 ft. long, 1 in. diam., 48 ins. in the

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Dependent Resurvey of East Boundary of T. 4 N., R. 27 E.

Chains

Over rolling land, through scattering sagebrush.

40.57

Proportionate measurement. Jude . . Trade . 1788 . Od.

Set an iron post, 3 ft. long, l.in. diam., 27 ins. in the ground, with broken glass deposited at the base, for

40.05 The gee, our, which & a basslt stone, laxlax10 ins., set undersauriace of road, and marked !. S 1 | S 6

esting gibround, I ft. under surface of road, with the marker

At point for our.

18x18x12 ins., N. and S. of post, 3 ft. dist.

81.68

The closing cor. of Tps. 4 N., Rs. 27 and 28 E., previously described.

Land, rolling.

Soil, sandy; 2nd rate. No timber; undergrowth, sagebrush and greasewood.

Set an iron post, I ft. long, lin. diam., do ins. the

Jan 25, 1941, at camp located at Hermiston, Oregon, at 4h 00m p.m., app. t., I set off, 45°50'N., on the lat. arc; 18°46'S., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At a point 25 - 165. W. of true oor.

Jan. 26, 1941, at 8h 00m. a.m. app. t., I set off 45° 50'N. on the lat. arc; 18°36'S., on the declination arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

General Description.

The north and east boundaries of T. 4 N., R. 27 E., are both gently rolling at an average elevation of about 400 ft. above sea level. The soil is very sandy but produces good crops when irrigated. No timber is found on these boundaries. Sagebrush and greasewood, scattering cacti and a fair stand of native grass are found on both of these , end of a like boundaries. W. S. Dus , T., C. L. 2008 to . 100 ent do. O.

The only running water is found in irrigation ditches and canals crossing the east boundary. A number of farms are

located near the east boundary.

The Union Pacific Railroad and telegraph line crosses the east boundary near the central part of the N. a of section 25. A good graveled road extends along the east boundary from the corner of Tps. 3 and 4 N., Rs. 27 and 28 E., to about 15.00 chs. S. of the cor. of secs. 1, 6, 7, and 12, Tps. 4 N., Rs. 27 and 28 E.

> All of township 4 north, range 27 east, north of the Union Pacific Railroad and to within a mile of the east boundary is being converted into an ordnance depot at this

time.

No mineral was noted on these boundaries.

The average of a considerable number of readings over these two boundaries gives a value of 21°00°E., for the mean magnetic declination. There is a range of 6° in local attraction.

Soil, sendy: and rate. No timber; undergrowth, segebrush and greasewood.

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.O first., bet. sees. I and o.

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4—680 (Revised May 1934)

FIELD ASSISTANTS

NAMES	CAPACITY
Leonard Carter	Public Land Surveyor.
Oskar T. Dauelsberg	Public Land Surveyor.

*	

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CERTIFICATE OF UNITED STATES SURVEYOR

1,	Gould, Surveyor.			
pursuance of special in	enstructions bearing date of the91	th day of	September	,1941
received from the dist	rict cadastral engineer forOre	egon	, with a	assignment
instructions datedJ	an. 21, 1941 , I have sur	weyed dependent	tly resurveye	d the
first standard	aparallel north, through	gh range 27 eas	st, and the e	ast
boundary of T	'. 4 N., R. 27 E.			prince areas agoing desire store prince areas desire deliber desire cross agoing deliber brings
of the Willame	tte Meridian, in the State of	Oregon		which are
represented in the fore	egoing field notes as having been exe	ecuted by me and und	er my direction; and	d that said
survey has been made	in strict conformity with said inst	ructions, the Manual	of Instructions for	the Survey
of the Public Lands of	f the United States, and in the spec			
Portland, Or	egon.	(Mis)	1 Done	1
Jan. 30, 194	1	Surve	yor.	
The foregoing field		OFFICE OF U.S. SUPER DENVER, COLO	RADO FEB 2	
parallel nort		Office of U.S . Super DENVER, COLO	RADO FEB 23	standar
parallel nort township 4 no	d notes of the survey of dependent through range 27 eas	Office of U.S . Super DENVER, COLO	RADO FEB 23 of the first st boundary of	standar
parallel nort township 4 no	d notes of the survey of depend h, through range 27 eas rth, range 27 east.	OFFICE OF U.S. SUPER DENVER, COLO lent resurvey of st, and the east	RADO FEB 2 3 of the first st boundary of	standar
township 4 no executed by under special instruction	d notes of the survey of depend h, through range 27 eas rth, range 27 east. Otis O. Gould,	OFFICE OF U.S. SUPER DENVER, COLO lent resurvey of st, and the east Surveyor.	RADO FEB 2 3 of the first st boundary of the first of the	standar
township 4 no executed by under special instructions dated	d notes of the survey of dependent de dependent dependen	Office of U.S. Super DENVER, COLO dent resurvey of the east of the	RADO FEB 2 1 of the first st boundary of the first , and a second control of the first	standar f assignment nined, and
township 4 no executed by under special instructions dated the necessary correction	d notes of the survey of dependent h, through range 27 east rth, range 27 east. Otis O. Gould, ions dated Sept. 9, Jan. 21, 1941 ons made prior to their certification	Office of U.S. Super DENVER, COLO lent resurvey of st, and the east Surveyor. Surveyor. 1940. , having by the engineer, the second structure of the survey of the surve	rapo FEB 2 1 of the first st boundary of the first , and a second field notes, and	standar f assignment nined, and
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parallel nort township 4 no executed by under special instructions dated the necessary correction therein described, are	d notes of the survey of dependent de dependent dependen	DENVER, COLO lent resurvey of the strain of the east of the east of the east of the east of the strain of the stra	rand of the first the boundary of the first the st boundary of the first that boundary of the first th	standare f assignment nined, and the survey