



# FIELD NOTES

of

RESURVEY OF THE EAST, SOUTH, WEST AND

WESTERN THREE MILES OF NORTH BOUNDARY

of the

DIMINISHED UMATILLA INDIAN RESERVATION

Of the \_\_\_\_\_ Meridian,

In the State of \_\_\_\_\_ Oregon

EXECUTED BY

L. E. Wilkes

In the capacity of U. S. Surveyor\_\_\_\_, under Special Instructions dated \_\_\_\_\_ Feb. 20\_\_\_\_, 1917, issued by the United States Surveyor General to govern surveys included in Group No. \_\_\_\_\_ 29\_\_\_\_\_, which were approved by the Commissioner of the General Land Office, \_\_\_\_\_ Apr. 11\_\_\_\_, 1917, and Assignment Instructions dated \_\_\_\_\_ May 3\_\_\_\_, 1917

Survey commenced \_\_\_\_\_ May 14\_\_\_\_, 1917

Survey completed \_\_\_\_\_ November 22\_\_\_\_, 1917

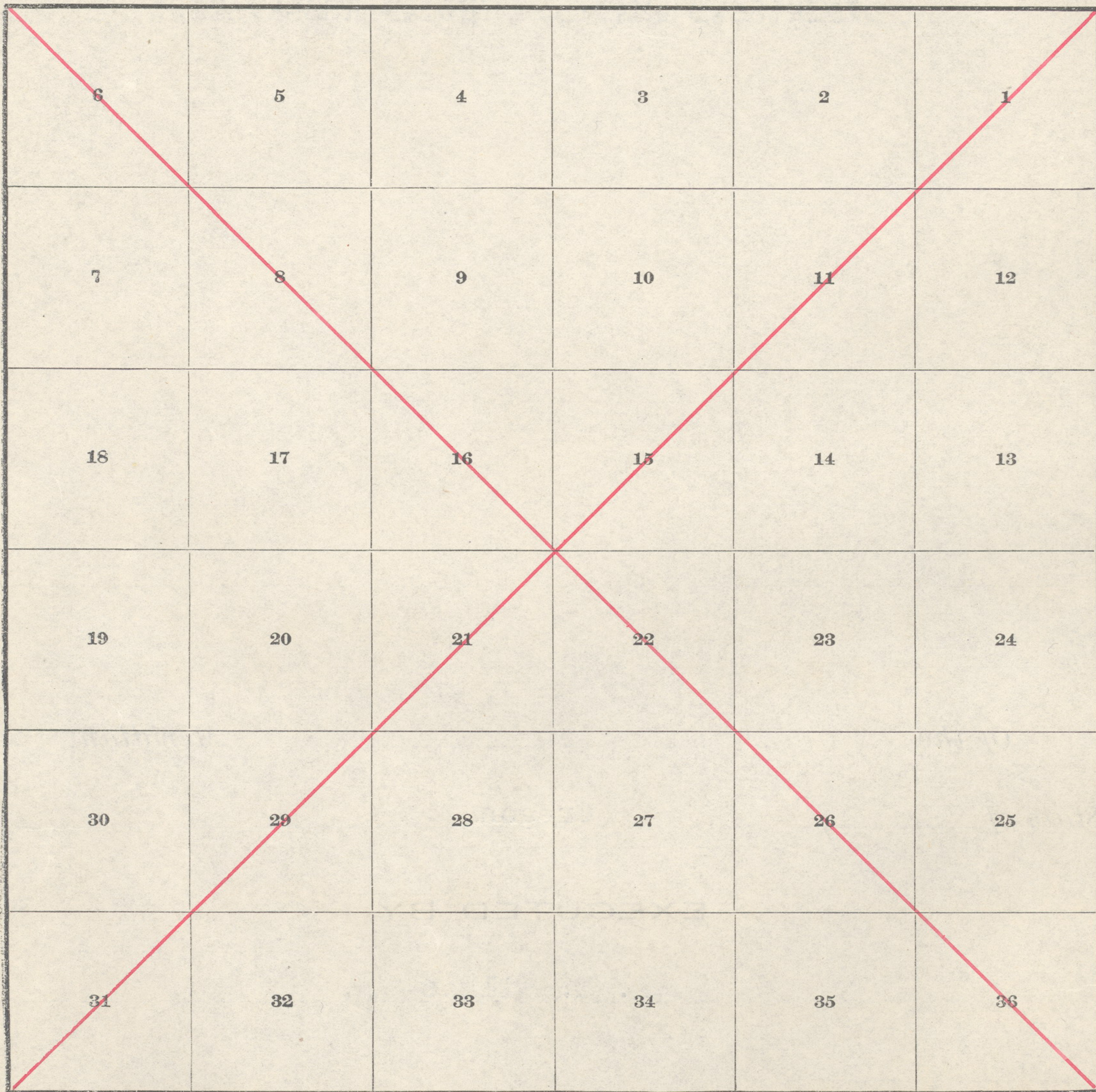
ACCEPTED BY THE HON. COMMISSIONER G. L. O. May 10, 1919



FIELD NOTES

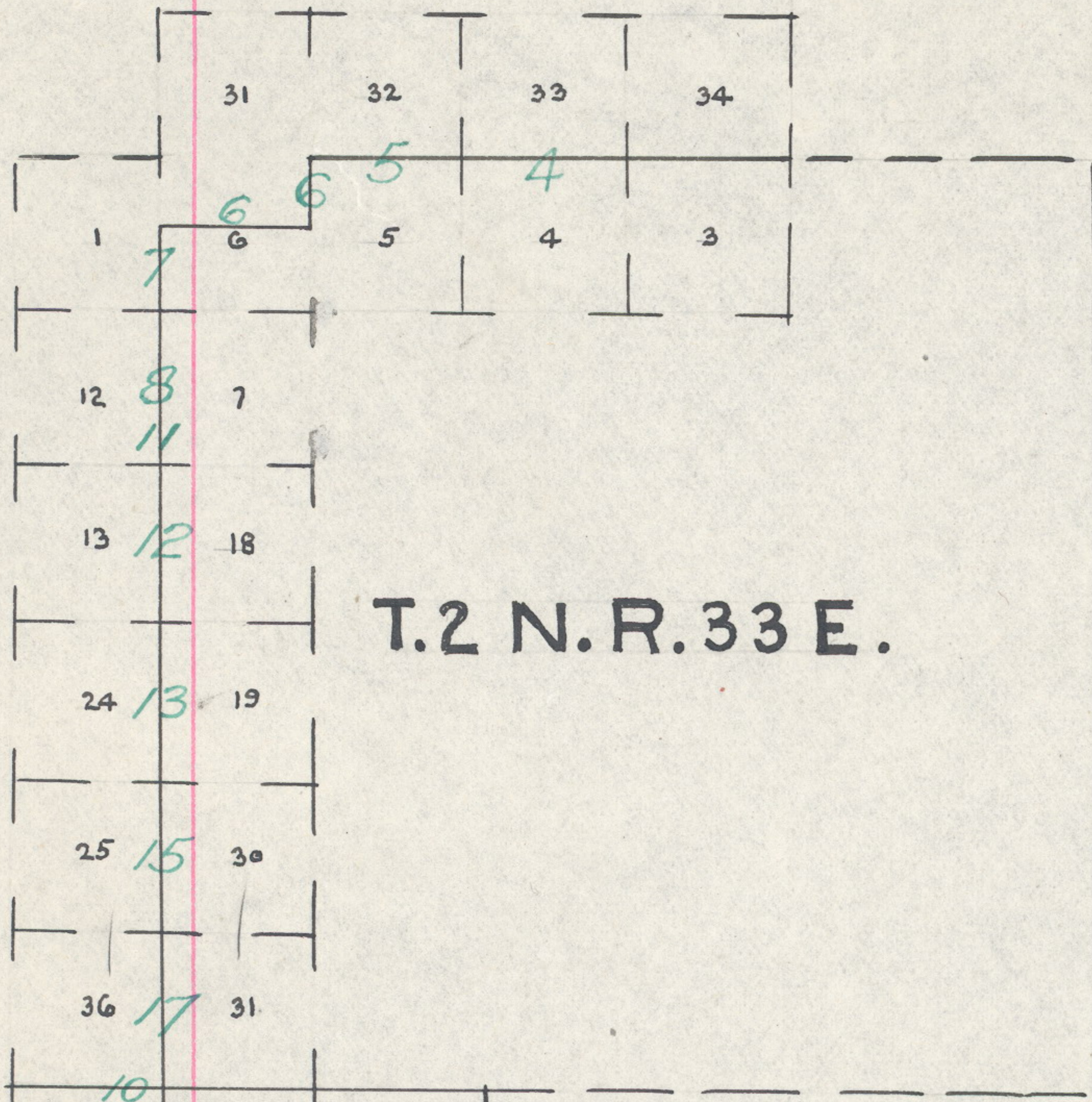
# INDEX DIAGRAM.

Township -----, Range -----

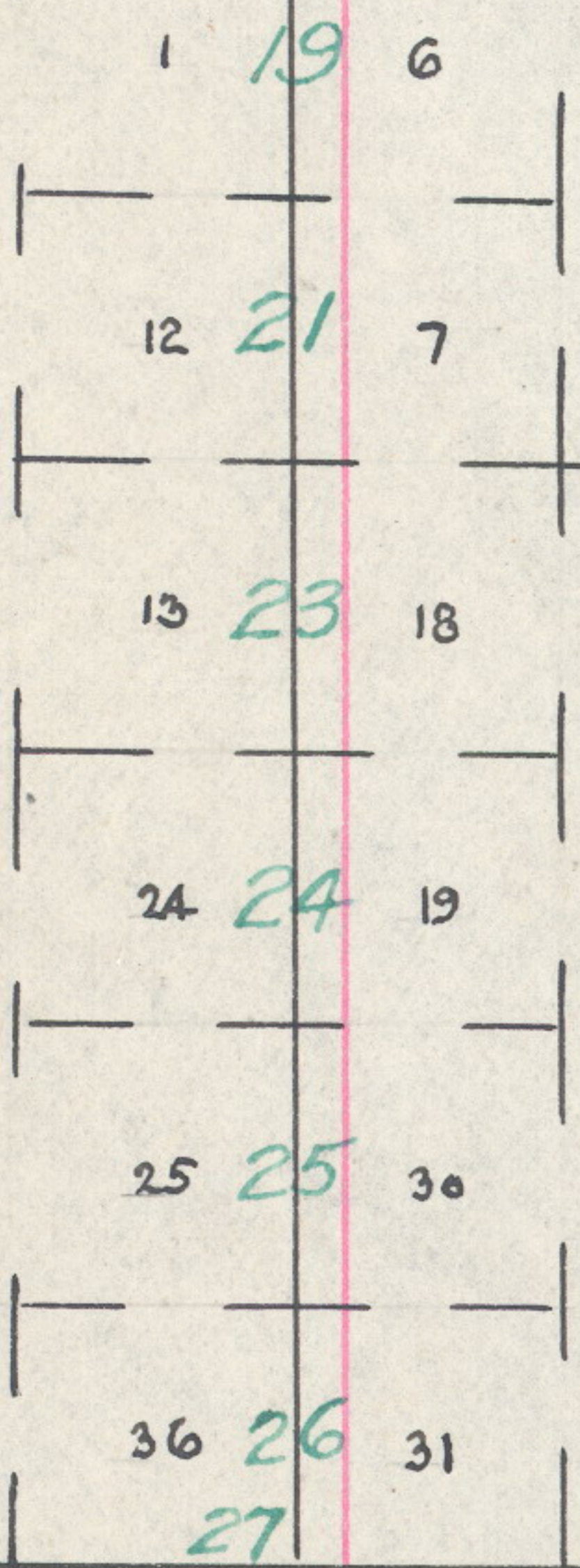




INDEX DIAGRAM



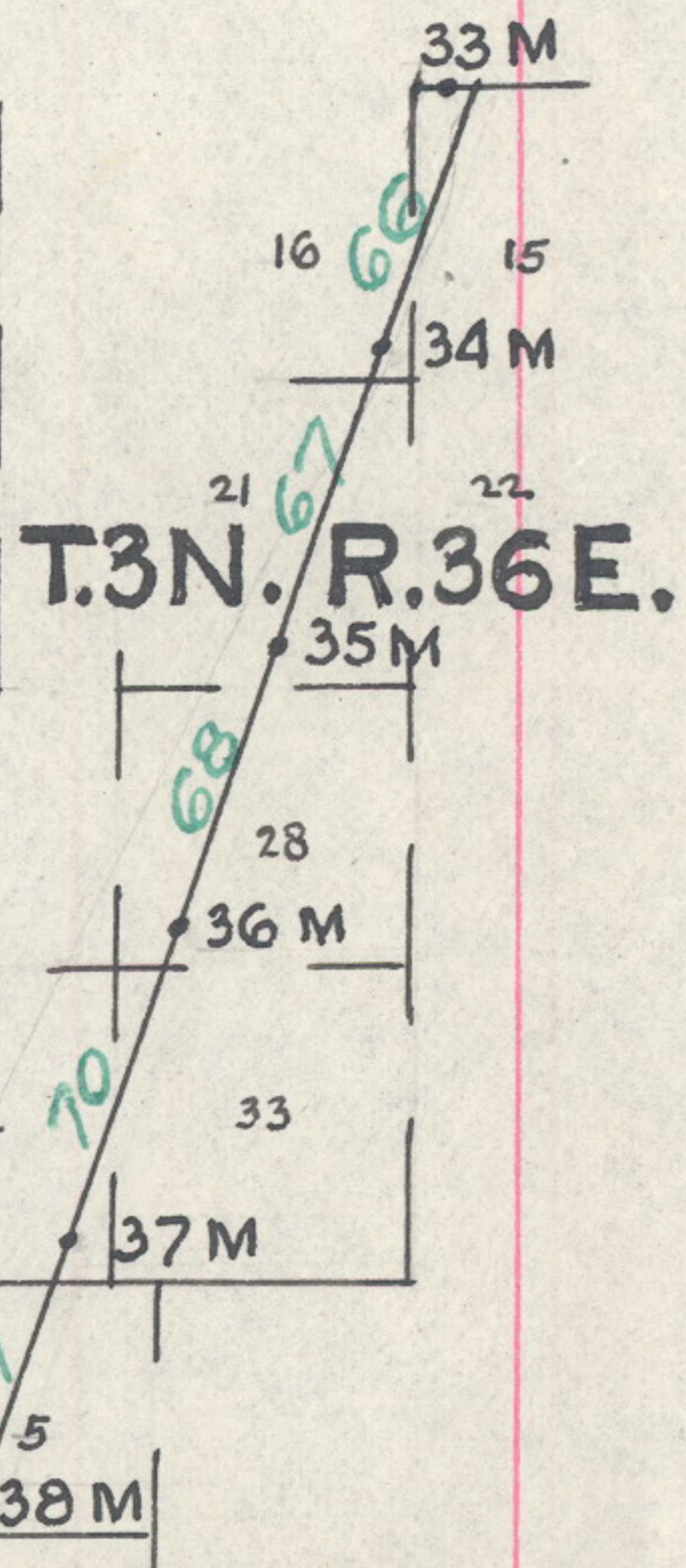
T.2 N. R. 33 E.



T.1 N. R. 33 E.

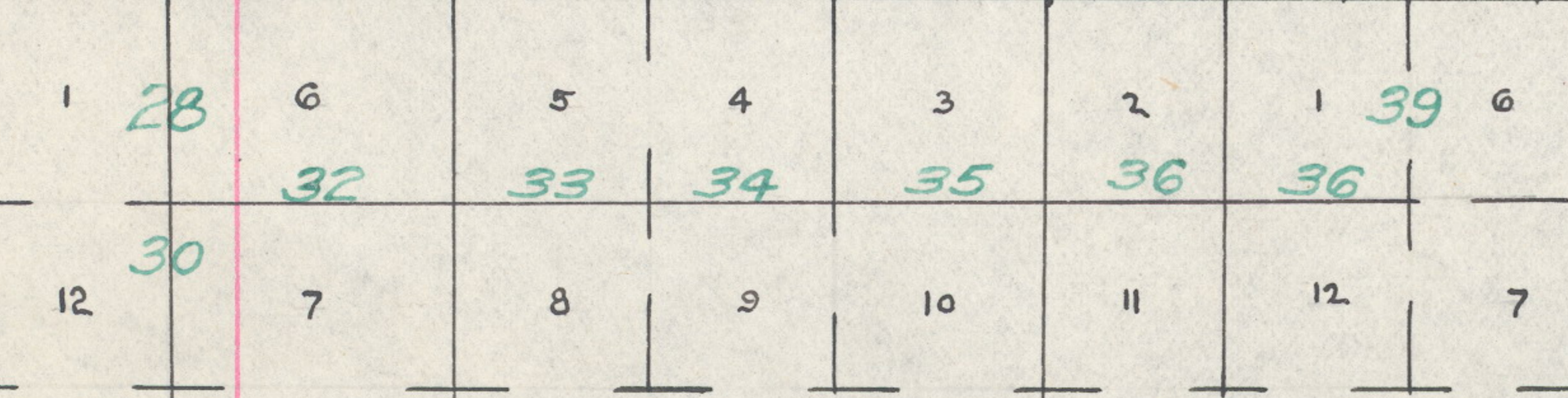


T.1 N. R. 34 E.

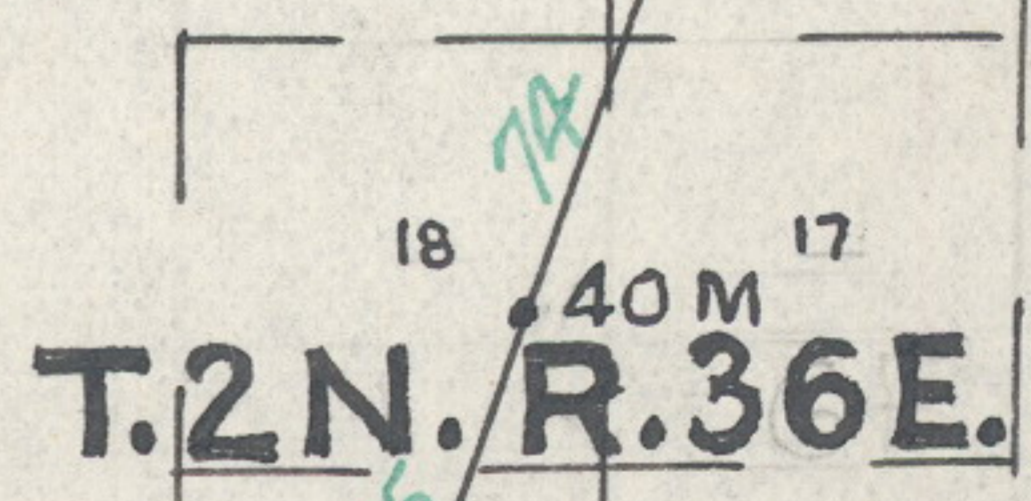


T.3 N. R. 36 E.

BASE LINE

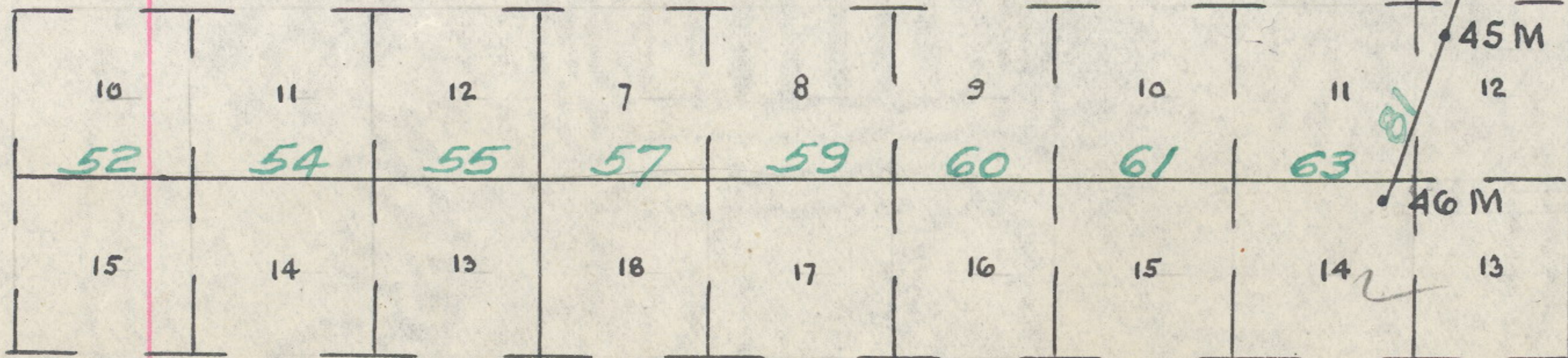


T.1 S. R. 33 E.



T.2 N. R. 36 E.

T.1 N. R. 34 E. R. 35 E.



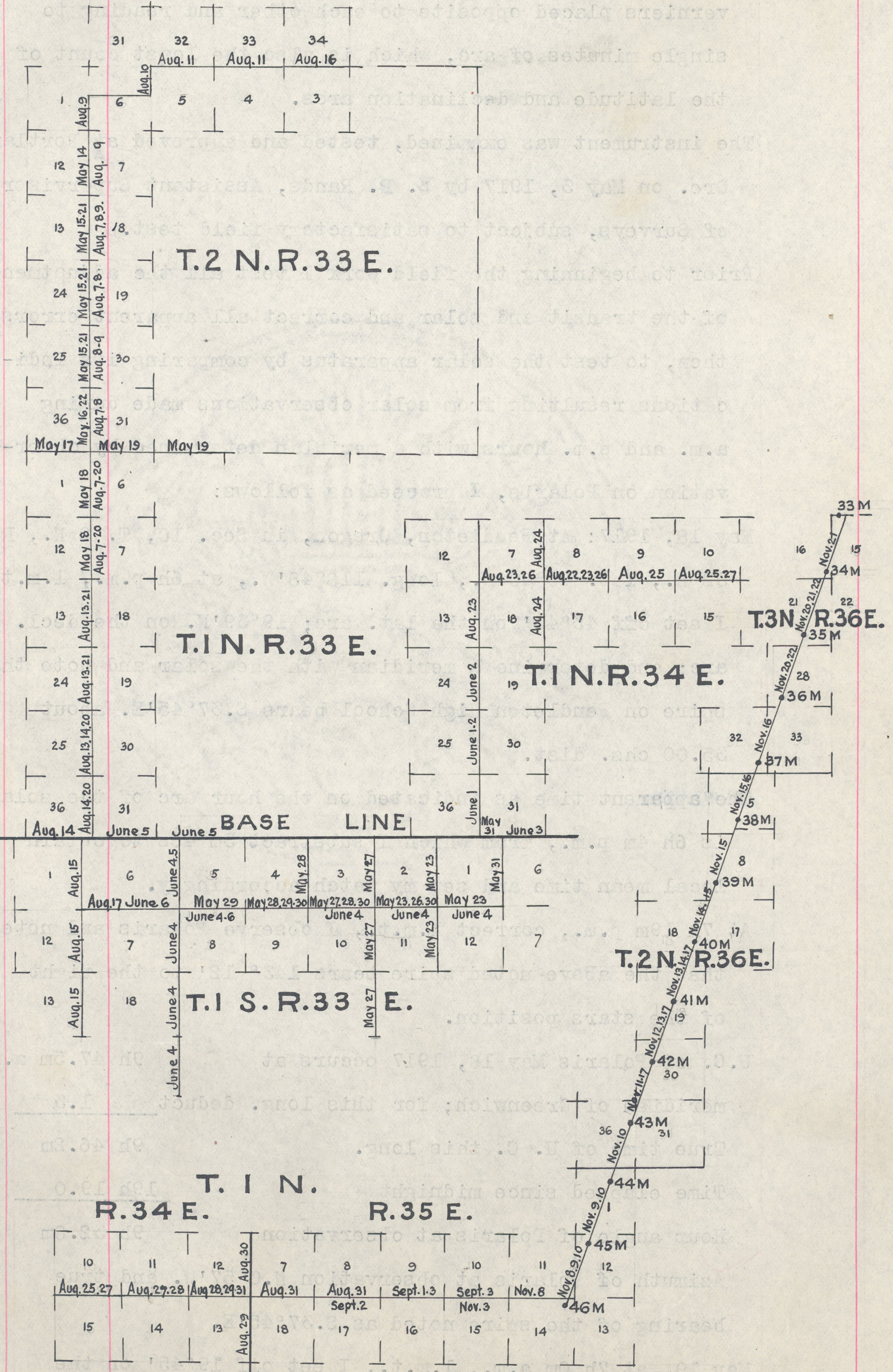


Compd 813  
651 UAC

Boundaries of Diminished Umatilla Indian Reservation

DATE, DIAGRAM

Resurveys for the Year 1917





Resurvey North Bdy. Diminished Umatilla Indian Reservation through T. 2 N., R. 33 E.

Chains

Survey commenced May 14, 1917 and executed with a Government owned Young and Sons transit No. 8585 with Smiths solar attachment. The instrument is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined, tested and approved at Portland, Ore. on May 3, 1917 by E. P. Rands, Assistant Supervisor of Surveys, subject to satisfactory field test.

Prior to beginning the field work I test all the adjustments of the transit and solar and correct all apparent errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observation on Polaris, I proceed as follows:

May 18, 1917: At Pendleton, Oregon, in Sec. 10, T. 2 N., R. 32 E., lat. 45°40'N., long. 118°48'W., at 6h p.m., l.m.t., I set off 45°40' on the lat. arc; 19°39'N. on the decl. arc; and determine a meridian with the solar and note that spire on Pendleton High School bears S.37°45'E. about 35.00 chs. dist.

The apparent time as indicated on the hour arc of the solar is 6h 4m p.m., from which I subtract 3m 46s to obtain local mean time and set my watch accordingly.

At 7h 19m p.m., correct l.m.t., I observe Polaris and note that the above noted spire bears 143° 12' to the right of the stars position.

U.C. of Polaris May 18, 1917 occurs at	9h 47.5m a.m. at
meridian of Greenwich; for this long. deduct	<u>1.3</u>
True time of U. C. this long.	9h 46.2m
Time elapsed since midnight	<u>19h 19.0</u>
Hour angle of Polaris at observation	9h 32.8m
Azimuth of Polaris at observation N.0°57'W. and true bearing of the spire noted as S.37°45'E.	

May 19, at 7h 0m a.m., l.m.t., I set off 19°45' on the



Resurvey North Bdy. Diminished Umatilla Indian Reservation  
through T. 2 N., R. 33 E.

Chains

decl. arc;  $45^{\circ}40'$  on the lat. arc; and determine a meridian with the solar. This gives the bearing of the above noted spire as  $S.37^{\circ}44'30''E.$ , disagreeing but  $30''$  from the true meridian; I, therefore, conclude that the adjustments of the instrument are satisfactory.

Magnetic variation ranges ordinarily from  $19^{\circ}$  to  $24^{\circ}$ , frequently far exceeding these limits, the average variation being about  $21^{\circ}30' E.$

The instrument was maintained in accurate adjustment throughout this survey by frequent tests on a meridian established by Polaris observation.

Solar observations for meridian and tests for latitude were duly made each working day.

Measurements were made with a steel tape, 5.00 chs. in length. Over uneven ground the degree of slope was determined with an Abney clinometer and the necessary reduction duly applied to obtain the true horizontal distances.

At many of the cors., hereinafter described, none of the customary accessories were constructed, for the reason that, owing to the nature and condition of the soil, pits are of no value whatever and stone for mounds could have been obtained only at great expense. Wherever practicable the cors. are duly witnessed.

Throughout this survey it was found that subdivisional lines, closing on township and range lines are generally unreliable; hence such lines have sometimes been ignored in the reconstruction of such corners on these boundaries.

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I commence at the NW. cor. of the Diminished Umatilla Indian Reservation; thence East retracing the center line of Sec. 6; at 35.95 chs. find no trace of the center  $\frac{1}{4}$  cor., set temp. cor., and at 76.00 chs. fall 20 lks. N. of the  $\frac{1}{4}$  cor. bet. secs. 5 and 6.

From the  $\frac{1}{4}$  cor. bet. secs. 5 and 6,  $N.1^{\circ}25'E.$  retracing bet. secs. 5 and 6 and at 35.83 chs. intersect the closing cor. of secs. 5 and 6.

From the closing cor. of secs. 5 and 6,  $S.89^{\circ}46'E.$  retracing the N. bdy. of sec. 5; at 3.10 chs. fall  $\frac{1}{2}$  lk.



666

Resurvey North Bdy. Diminished Umatilla Indian Reservation  
through T. 2 N., R. 33 E.

Chains

at cor. of fences extending S. and E., no marks are legible.

At a point 1 lk. E. of cor.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for witness cor. to the cor. of secs. 5 and 6, with brass cap marked

T3N  
S31  
WC S6 | S5  
T2N | R33E  
1917

Land, rolling.

Soil, light loam, 1st rate.

No timber or undergrowth.

S.1°25'W., on a true line, bet. secs. 5 and 6.

Over heavily rolling land, along fence between grain fields.

35.83 Intersect the 1/4 cor. bet. secs. 5 and 6, which is a basalt stone, 11x6x6 ins., 12 ins. in the ground, without legible marks, at intersection of fences extending N., S. and W.

At a point 1 lk. W. of cor.

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for witness cor. to the 1/4 sec. cor., with brass cap marked

1/4  
S6 | S5 WC  
1917

Land, heavily rolling.

Soil, light loam, 1st rate.

No timber or undergrowth.

N.89°51'W., on a true line, through Sec. 6.

Over rolling land, along fence between grain fields.

40.03 Apportioned distance

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked

1/4 | 1/4  
1/4 | 1/4  
S6  
1917

76.00 Intersect the NW. cor. of Diminished Umatilla Indian



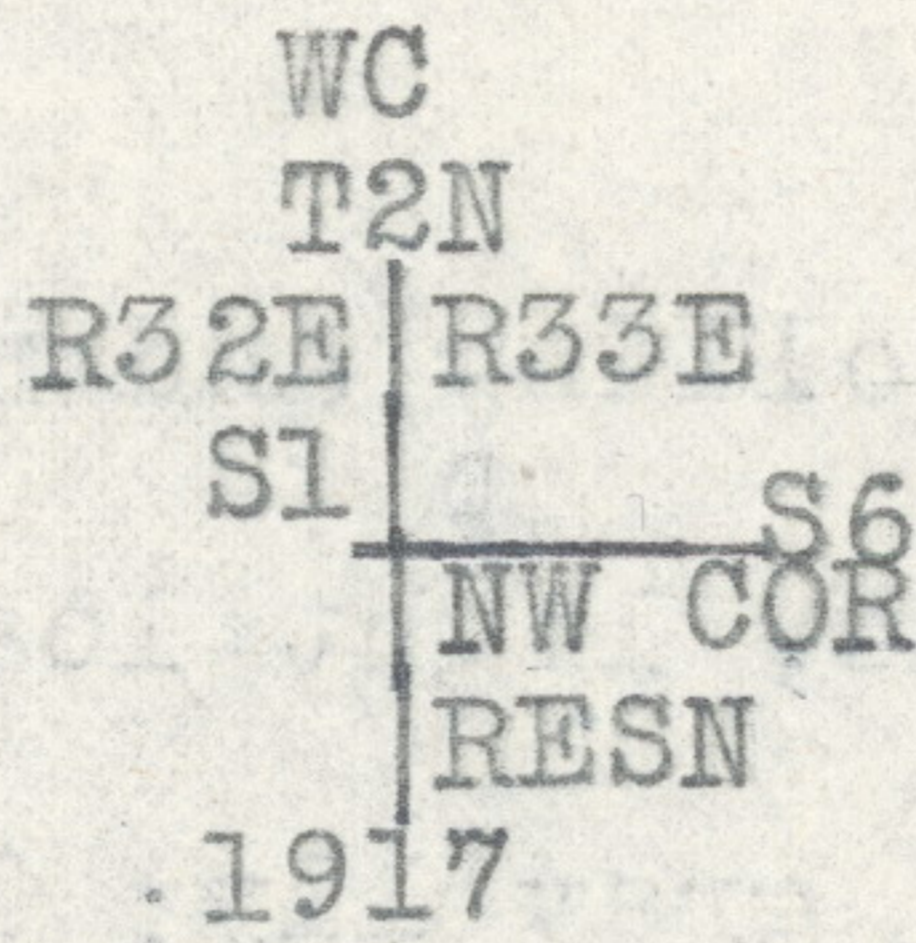
Resurvey North Bdy. Diminished Umatilla Indian Reservation  
through T. 2 N., R. 33 E.

Chains

Reservation, which is a basalt stone, 12x10 ins., 2 ins. below the surface of the ground, marked as described by the surveyor general.

At a point 1 lk. S. of cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for witness cor. to the NW. cor. of Diminished Umatilla Indian Reservation, with brass cap marked



Land, rolling.

Soil, light loam, 1st rate.

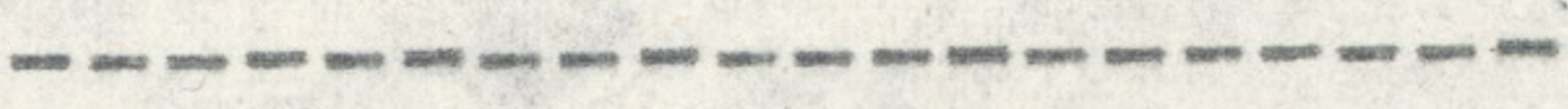
No timber or undergrowth.

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Resurvey West Bdy. Diminished Umatilla Indian Reservation  
West Bdy. of T. 2 N., R. 33 E.

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From the NW. cor. of the Diminished Umatilla Indian Reservation, South retracing the line bet. secs. 1 and 6, making careful and systematic search for old cors. and at 84.28 chs. fall 48 lks. E. of the 1/4 cor. of sec. 12, T. 2 N., R. 32 E.



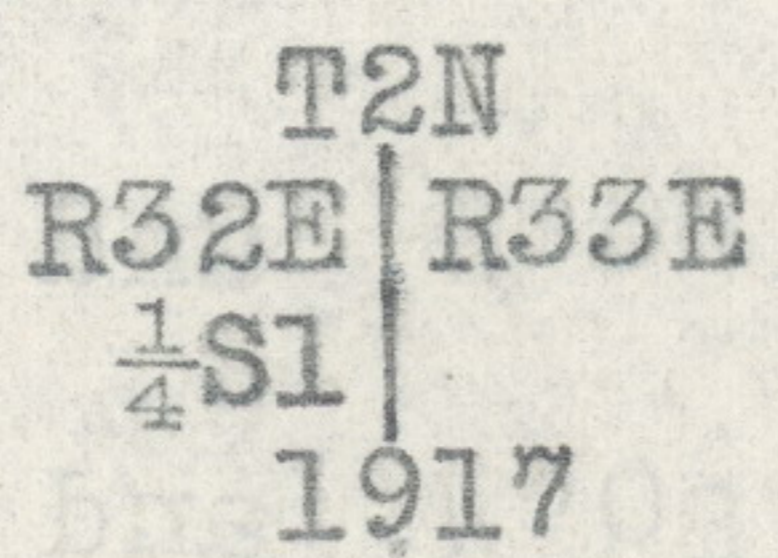
Returning to the NW. cor. of the Diminished Umatilla Indian Reservation

S.0°20'W., resurveying W. bdy. of reservation.

Over rolling land, through grain field.

3.77 Apportioned distance

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for 1/4 cor. of sec. 1, T. 2 N., R. 32 E. only, with brass cap marked



5.00 Leave grain field, bears W. and SE.; enter pasture land.

20.00 Descend S. slope 85 ft. to

23.70 Fence, bears E. and W.; over bottom land.

33.68 Fence, bears E. and W.; across road.



Resurvey East Bdy. Diminished Umatilla Indian Reservation

Chains

Soil, shallow light loam over basalt, 3rd rate.  
Timber, small growth of fir and yellow pine.  
Undergrowth, willow, ninebark, arrowwood and cherry.

November 22, 1917.

L. E. Wilkes  
U. S. Surveyor

For Final Certificate of U. S. Surveyor see Book "E"  
of this Group.

APPROVAL

Office of U. S. Surveyor General,  
Portland, Oregon, August 26, 1918.

The foregoing field notes of the Resurvey of the East, South, West and western three miles of the North Boundary of the Diminished Umatilla Indian Reservation, Oregon, executed by L. E. Wilkes, U. S. Surveyor, under his special instructions dated February 20, 1917, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. Worth  
U. S. Surveyor General