

3242

Book "A"

(Standard lines & Township bdrs.)

BOOK 3242

FIELD NOTES

OF THE SURVEY OF THE

6th Standard Parallel North thru Rs. 20, 21 and 22 West
 7th Standard Parallel North thru Rs. 16, 17, 18 and parts of Rs. 15 & 19 W.
 West bdrs. of Ts. 25 N., Rs. 13 & 21 W., Ts. 26 N., Rs. 14 & 20 W., Ts. 27 N.,
 Rs. 18 & 19 W., Ts. 28 N., Rs. 15 & 18 W., Ts. 29 N., Rs. 15, 16 &
 17 W. and T. 30 N., R. 15 W.
 North bdrs. of T. 25 N., R. 21 W., T. 26 N., R. 20 W., Ts. 27 N., Rs. 18 & 19 W.
 and Ts. 29 N., Rs. 16 & 17 W.
 South bdry. of T. 26 N., R. 14 W.
 Parts of North bdrs. of Ts. 25 N., Rs. 13 & 22 W., Ts. 26 N., Rs. 14, 15 &
 21 W., Ts. 27 N., Rs. 16 & 20 W., Ts. 29 N., Rs. 15 &
 18 W. and T. 30 N., R. 15 W.
 Parts of West bdrs. of Ts. 26 N., Rs. 13 & 21 W., Ts. 27 N., Rs. 14, 15 & 20 W.,
 T. 28 N., R. 19 W., T. 29 N., R. 18 W., Ts. 30 N., Rs. 16
 & 17 W. and T. 31 N., R. 15 W.
 Part of East bdry. of T. 28 N., R. 17 W.

AND OF THE RETRACEMENT OF

Part of North bdry. of T. 27 N., R. 16 W.
 Part of South bdry. of T. 26 N., R. 15 W.

AND OF THE RESURVEY OF

6th Standard Parallel North thru Rs. 18, 19, 20 and part of R. 17 West
 East bdy. of T. 25 N., R. 18 W.
 West and North bdrs. of Ts. 25 N., Rs. 18, 19 & 20 W., and Ts. 26 N.,
 Rs. 18 & 19 W.
 Part of South bdy. of T. 26 N., R. 15 W.
 Part of North bdy. of T. 27 N., R. 16 W.
 Parts of West and North bdrs. of T. 28 N., R. 17 W. and
 Part of West bdy. of T. 27 N., R. 15 W.

In the State of

of the Gila and Salt River Base and Meridian, in the State of Arizona.

EXECUTED BY H. G. BARDSLEY, SIDNEY E. BLOUNT, E. J. LANGE & J. P. DAVIS, U.S. Surveyors
and

ROYSTON C. DURNFORD, JAMES C. HOOPER, D. R. AVERILL & S. FRANK WALTERS
U.S. TRANSITMEN.

In the capacity of U. S. Surveyor, under instructions dated January 7, 1915,

issued by the United States Surveyor General to govern surveys included in

Group No. 45, which were approved by the Commissioner of the General Land

Office, January 26, 1915

Survey, Retracement
and ReSurvey commenced February 5, 1915

Survey, Retracement
and ReSurvey completed January 13, 1919

Assigned to the Assignment

dated Jan. 31, 1915, Nov. 29, 1915, Dec. 10, 1915, May 8, 1916, Dec. 7, 1916, Jan. 2, 1919.

See Special Index Diagram

INDEX DIAGRAM.

Township , *Range*

6	5	4	3	2	1
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

BOOK 3242

3242

Book "A"

GROUP 45 ~ ~ ~ ARIZONA.

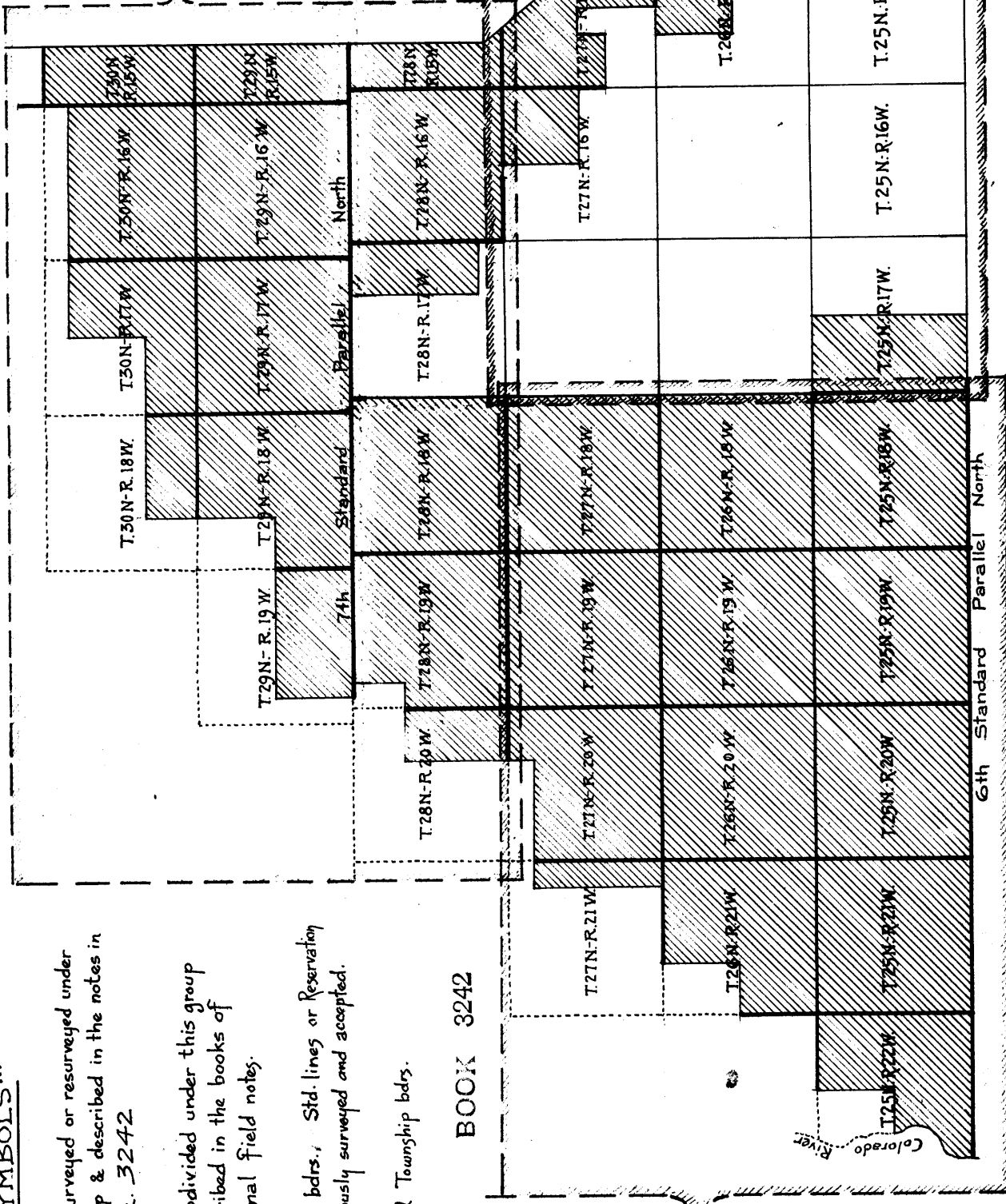
PART I
page 2
SPECIAL INDEX · DIAGRAM
IN THREE PARTS WITH KEY.

~ KEY ~

Area indexed on Part I
page 2

Area indexed on Part II
page 3

Area indexed on Part III
page 4



... SYMBOLS ...

— Lines surveyed or resurveyed under this group & described in the notes in this book. 3242

▨ Area subdivided under this group and described in the books of subdivisional field notes.

— Township bdrs., Std. lines or Reservation bdy, previously surveyed and accepted.

..... Unsurveyed Township bdrs.

BOOK 3242

PART III
page 4

PART II
page 3

BOOK 3242

Book "A" 3242

GROUP 45~ ARIZONA

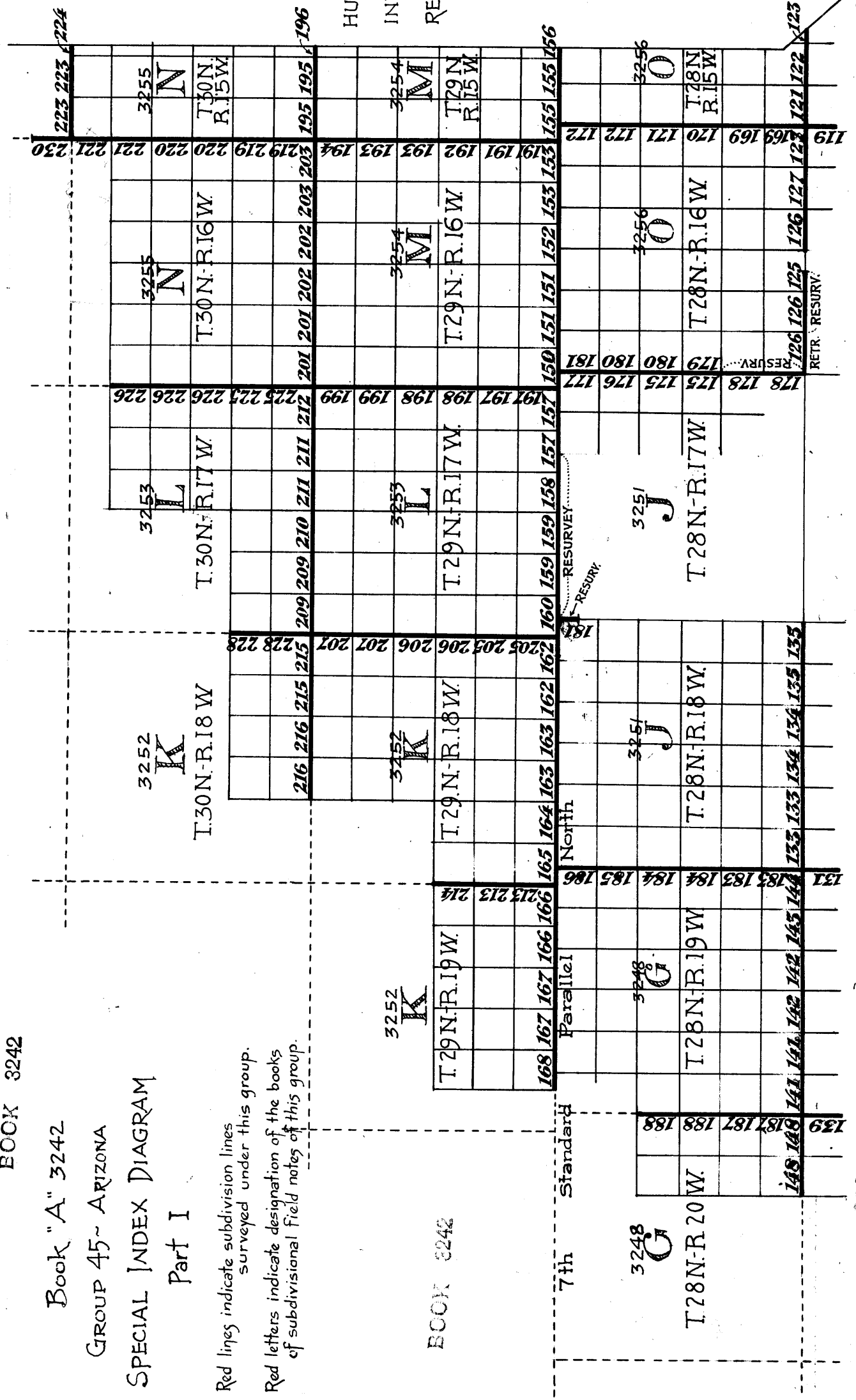
SPECIAL INDEX DIAGRAM

Part I

Red lines indicate subdivision lines surveyed under this group.
Red letters indicate designation of the books of subdivisional field notes of this group.

HUALPAI
INDIAN
RESERVATION

BOOK 3242

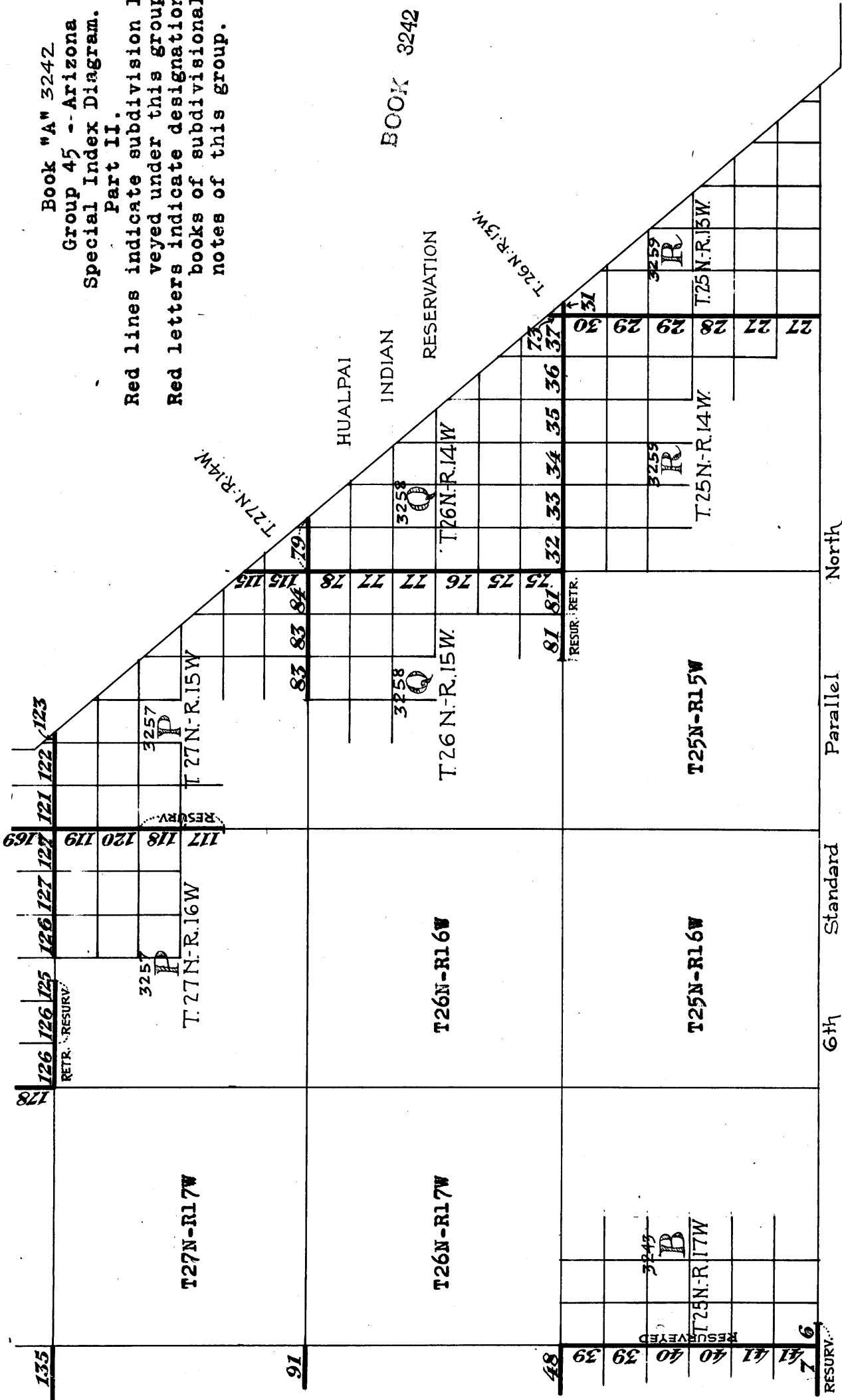


Book "A" 3242
 Group 45 - Arizona
 Special Index Diagram.
 Part II.

Red lines indicate subdivision lines surveyed under this group
 Red letters indicate designation of the books of subdivisional field notes of this group.

BOOK 3242

BOOK 3242



BOOK 3242

Book "A" 3242

Group 45 - Arizona
Special Index Diagram.
Part III.

Red lines indicate subdivision
lines surveyed under this
group.

Red letters indicate designation
of the books of subdivision
and field notes of this group

BOOK 3242

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T27N-R.20W	T27N-R.19W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
107 107	108 108	109 109	110 110	111 111	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
112 112	113 113	114 114	115 115	116 116	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
117 117	118 118	119 119	120 120	121 121	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
122 122	123 123	124 124	125 125	126 126	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
127 127	128 128	129 129	130 130	131 131	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
132 132	133 133	134 134	135 135	136 136	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
137 137	138 138	139 139	140 140	141 141	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
142 142	143 143	144 144	145 145	146 146	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W
147 147	148 148	149 149	150 150	151 151	100 100	101 101	102 102	RESURVEY
95 95	96 96	97 97	98 98	99 99	87 87	88 88	89 89	RESURVEY
3246 E	3246 E	3246 E	3246 E	3244 C	3249 H	3249 H	3243 B	3243 B
T26N-R.21W	T26N-R.21W	T26N-R.20W	T26N-R.19W	T25N-R.19W	T27N-R.18W	T26N-R.18W	T25N-R.18W	T25N-R.18W

BOOK 3242

Colorado River

North

Parallel

Standard

6th

Chains.

Resurvey and

Survey commenced Feb. 5, 1915, and executed jointly by H. G. Bardsley, U. S. Surveyor, and Royston C. Durnford, U. S. Transitman, with Young and Sons' light mountain transits Nos. 8532 and 8526, respectively, with Smith solar attachments. The horizontal limb of each transit is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

These instruments were approved Jan. 31, 1915, by the Assistant Supervisor of Surveys for Arizona and California, conditional upon satisfactory field performance.

In the resurveys ~~and surveys hereinafter described~~ North, and the survey of the Tps. of this group, slope measurements were made, slope angles read with the clinometer, and the correct horizontal distance computed for each item of topography.

In the following field notes, the initials H. G. B. and R. C. D. refer to H. G. Bardsley, U. S. Surveyor, and Royston C. Durnford, U. S. Transitman, respectively.

We examine the adjustments of the transits, and correct all errors; then, to test the solars, by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, we proceed as follows:

At our camp at Quail Springs, in sec. 1, T. 24 N., R. 19 W., in lat. $35^{\circ} 30' N.$, long. $114^{\circ} 15' W.$, at 10 hrs. 24 m., p.m., l.m.t., by our watches, which are set to correct local mean time, we observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, by a tack driven in a stake, 5 chs. N. of our station.

Feb. 5, 1915.

Feb. 6, 1915.

Rainy and cloudy weather prevented the testing of our instruments to-day.

Feb. 6, 1915.

Feb. 7, 1915: At 7 hrs. 55 m., a.m., l.m.t., we lay off the azimuth of Polaris, $1^{\circ} 24'$ to the east, and mark points in the meridian thus determined by tacks driven in stakes, 5 chs. N. and 20 lks. S. of our station.

At 8 hrs. 0 m., a.m., l.m.t., we set an instrument at each of the stations, 20 lks. apart, and set off $35^{\circ} 30' N.$ on the lat. arcs; $15^{\circ} 28' S.$ on the decl. arcs; and determine a meridian with each solar. Each meridian thus determined departs less than 1' from the meridian determined by observations on Polaris at elongation.

Feb. 7, 1915: At apparent noon, we set off $15^{\circ} 26' S.$ on the decl. arcs; and observe the sun on the meridian with each solar. The resulting lat. in each case is $35^{\circ} 30' N.$

At 4 hrs. 0 m., p.m., l.m.t., we set off $35^{\circ} 30' N.$ on the lat. arcs; $15^{\circ} 21\frac{1}{2}' S.$ on the decl. arcs; and determine a meridian with each solar. Each meridian thus determined departs less than 1' from the meridian determined by observations on Polaris at elongation.

The solar apparati, by a.m. and p.m. observations, define positions for meridians, which depart less than 1' from the true meridian determined by observations on Polaris at elongation. As these instruments fulfill the conditions imposed by our instructions, we deem them satisfactory for field use.

The magnetic bearing of the true meridian, at 8 hrs. 0 m., a.m. is $N.16^{\circ} W.$; the angle thus determined gives the mag. decl. $16^{\circ} E.$

Dates of execution shown on pages 251 and 237 hereof.

Independent Resurvey
of

7th Standard Parallel North Through part of R. 17 W.

Chains

H. G. B. and R. C. D.
 Feb. 9, 1915: At 9 hrs. 55 m., a.m., l.m.t., we set off
 35° 30½' N. on the lat. arcs; 14° 49½' S. on the decl.
 arcs; and determine a meridian with each solar, on the
 secant, 2 lks. S. of the standard ¼ sec. cor. of secs
 31, T. 25 N., R. 17 W., which is an iron post, 1 in.
 diam., properly set, marked and witnessed as described
 by the Surveyor-General.
 Thence
 S. 89° 59' W., on the secant, S. of sec. 31. (West half).
 Over rolling land, through scattering timber and dense
 undergrowth.
 Asc. 115 ft. on SE. slope.
 12.50 Top of asc.; desc. W. slope, 75 ft. to
 20.00 Foot of desc.; gulch, course NE. Thence along broken N.
 slope to
 38.75 Gulch, 50 lks. wide, 10 ft. deep, course NE. Asc.
 Difference between measurements of 39.24 chs. by two sets
 of chainmen is 4 lks.; position of middle point.
 By 1st set, 39.26 chs.
 By 2nd set, 39.22 chs.; the mean of which
 is
 39.24 A point 4 lks. S. of the closing cor. of Tps. 24 N., R.
 17 W., which is an iron post, 3 ins. diam., properly set,
 marked and witnessed as described by the Surveyor-General.
 We remove this iron post, and destroy all trace of the
 cor.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 4 lks.; position of middle point
 By 1st set, 40.02 chs.
 By 2nd set, 39.98 chs.; the mean of which
 is
 40.00 N. 4 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., on solid rock
 in a mound of stone, for reestablished Std. Cor. of Tps. 25 N.,
 Rs. 17 and 18 W., marked on brass cap
 1915 on S. rim;
 SC T25N in N. half;
 R18W S36 in NW. and
 R17W S31 in NE. quadrant; from which
 A pinion, 7 ins. diam., brs. N. 72° W., 50 lks. dist.,
 marked T25N R18W S36 BT.
 No other trees within limits. Raise a mound of stone,
 2 ft. base, 1½ ft. high, N. of cor. Title in prospect.
 Land, rolling.
 Soil, rocky; 4th rate.
 Timber, pinion and cedar.
 Undergrowth, pinion, cedar, buck brush and cacti.
 Feb. 9, 1915: At this cor., we set off 14° 49½' S. on the
 decl. arcs; and at apparent noon, we set H. G. B. and R. C. D.
 the meridian; the resulting lat. with each solar is
 35° 30½' N.

Independent Resurvey of

Sixth Standard Parallel North Through R. 18 W.

Chains.	H.G.B. & R.C.D.
	From a point on the secant, 4 lks. S. of the reestablished std. cor. of Tps. 25 N., Rs. 17 and 18 W., which is an iron post, hereinbefore described, we ran
	N. 89° 58' W., on the secant, S. of sec. 36.
	Over mountainous land, through scattering timber and dense undergrowth.
	Asc. 135 ft. to
14.85	Top of ascent; descend.
18.50	Gulch, 5 lks. wide, course NE. Asc. 215 ft. to
32.40	Ridge, brs. NE. and SW. Desc. 40 ft. to
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point By 1st set, 40.02 chs. By 2nd set, 39.98 chs.; the mean of which is
40.00	N. 2 lks. from the secant,
	Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground for reestablished std. cor., marked SC $\frac{1}{4}$ on N. face; from which
	An oak, 4 ins. diam., brs. N. 25° E., 23 lks. dist., marked $\frac{1}{2}$ S36 BT.
	No other trees within limits. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits inaccessible.
44.50	Gulch, with stream of water, course NE. Asc. 345 ft. to
67.00	Top of ascent. Desc.
69.75	Gulch, 5 lks. wide, with stream of water, course SE. Asc. 185 ft. to
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point By 1st set, 79.92 chs. By 2nd set, 80.08 chs.; the mean of which is
80.00	Set a granite stone, 22 X 14 X 6 ins., 17 ins. in the ground
	for reestablished standard cor. of secs. 35 and 36, marked SC on N. face, with 1 groove on E. and 5 grooves on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits inaccessible.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, pinon and cedar.
	Undergrowth, scrub oak, cat claw and buck brush.
	N. 89° 59' W., on the secant, through sec. 35. Over mountainous land, through scattering timber and undergrowth.
	Asc. 315 ft. to
24.70	Top of ascent; descend.
29.10	Gulch, with stream of water, course SE. Asc. 150 ft. to
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point By 1st set, 40.06 chs. By 2nd set, 39.94 chs.; the mean of which is
40.00	S. 1 lk. from the secant,
	Set a granite stone, 35 X 24 X 8 ins., 27 ins. in the ground for reestablished standard $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits inaccessible.
	Feb. 9, 1915.
	Feb. 12, 1915.
	At 8 hrs. 57 m., a.m., l.m.t., we set off 35° 30 $\frac{1}{2}$ ' N. on the lat. arcs; 13° 52' S. on the decl. arcs; and determine a meridian with each transit, on the secant, at the standard $\frac{1}{4}$ sec. cor. of sec. 35.
	Thence continuing measurement.
	N. 89° 59' W., on the secant, through sec. 35.
	Desc. to
48:40	Gulch, with stream of water, course SE. Asc. 325 ft. to

Independent Resurvey of

8

Sixth Standard Parallel North Through R. 18 W.

Chains.	
61.00	Top of main ridge, brs. NE. and SW. Desc. 325 ft. Difference between measurements of 80.00 chs. by two sets of chainmen is 22 lks.; position of middle point By 1st set, 79.89 chs. By 2nd set, 80.11 chs.; the mean of which is
80.00	S. 2 lks. from the secant, Set a granite stone, 24 X 10 X 3 ins., 18 ins. in the ground for reestablished standard cor. of secs. 34 and 35, marked SC on N., with 2 grooves on E. and 4 grooves on W. face; from which A pinon pine, 12 ins. diam., brs. N. $83\frac{1}{2}^{\circ}$ E., 60 lks. dist., marked T25N R18W S35 BT. A pinon pine, 6 ins. diam., brs. N. 53° W., 70 lks. dist., marked T25N R18W S34 BT. Land, mountainous. Soil, rocky; 4th rate. Timber, pinion and cedar. Undergrowth, laurel and buck brush.
14.50	N. $89^{\circ} 59'$ W., on the secant, through sec. 34. Over mountainous land, through scattering timber and dense undergrowth. Desc. 850 ft. Gulch, 6 lks. wide, with stream of water, course SW. Continue descent. Difference between measurements of 40.00 chs. by two sets of chainmen is 22 lks.; position of middle point By 1st set, 39.89 chs. By 2nd set, 40.11 chs.; the mean of which is
40.00	S. 3 lks. from the secant, Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the ground for reestablished standard $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Site irremovable.
46.00	Gulch, with stream of water, 10 lks. wide, course NW. Asc. to
50.00	Top of ascent; descend 95 ft.
58.26	Gulch, with stream of water, 7 lks. wide, course NW. Asc. 170 ft. Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point By 1st set, 79.92 chs. By 2nd set, 80.08 chs.; the mean of which is
80.00	S. 3 lks. from the secant, Set a granite stone, 20 X 10 X 8 ins., 15 ins. in the ground for reestablished standard cor. of secs. 33 and 34, marked SC on N., with 3 grooves on E. and W. faces; from which A pinion pine, 4 ins. diam., brs. N. $67\frac{1}{4}^{\circ}$ E., 22 lks. dist., marked T25N R18W S34 BT. A pinion pine, 6 ins. diam., brs. N. $46\frac{1}{2}^{\circ}$ W., 31 lks. dist., marked T25H R18W S33 BT. Land, mountainous. Soil, rocky; 4th rate. Timber, pinion and cedar. Undergrowth, laurel and buck brush. Feb 12, 1915: At this cor., we set off $13^{\circ} 30'$ S. on the decl. arcs; and at apparent noon, we observe the sun on the meridian with each solar; the resulting lat. in each case is $35^{\circ} 30'$ N.
	West on the secant, through sec. 33. Over mountainous land, through scattering timber and dense undergrowth.

Independent Resurvey of

Sixth Standard Parallel North Through R. 18 W.

Chains.	Desc. 145 ft. to
5.10	Gulch, 5 lks. wide, course NW. Asc. 40 ft. to
8.00	Top of ascent. Desc. 225 ft.
14.20	Gulch, 12 lks. wide, course NW. Asc. 70 ft. to
16.94	Ridge, brs. NW. and SE. Desc. 40 ft. to
20.00	Foot of descent. Asc. 175 ft.
29.50	Ridge, brs. NW. and SE. Desc. 235 ft. to
	Difference between measurements of 40.00 chs. by twosets of chainmen is 8 lks.; position of middle point By 1st set, 39.96 chs. By 2nd set, 40.04 chs.; the mean of which is
40.00	S. 3 lks. from the secant, Set a granite stone, 22 X 10 X 6 ins., 17 ins. in the ground for reestablished standard $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on E. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Dist. not available. Feb. 12, 1915.
	Feb. 13, 1915: At 8 hrs. 4 m., a.m., l.m.t., we set off 35° 30 $\frac{1}{2}$ ' N. on the lat. arcs; 13° 32' S. on the decl. arcs; and determine a meridian with the solars at the standard $\frac{1}{4}$ sec. cor. of sec. 33, on the secant. Thence continuing measurement, West on the secant, through sec. 33. Desc. 245 ft. to
50.80	Gulch, course NW. Asc. 30 ft. to
56.50	Ridge, brs. NW. and SE. Desc. 80 ft. to
61.50	Gulch, course NE. Asc. 175 ft. to
68.34	Spur, slopes N. Desc. 300 ft. to
	Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point By 1st set, 79.96 chs. By 2nd set, 80.04 chs.; the mean of which is
80.00	S. 2 lks. from the secant, Set a granite stone, 24 X 8 X 4 ins., 18 ins. in the ground, for reestablished std. cor. of secs. 32 and 33, marked SC on N.; with 4 grooves on E. and 2 grooves on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Dist. not available. Land, mountainous. Soil, rocky; 4th rate. Timber, pinion and cedar. Undergrowth, laurel and ouck brush.
	S. 89° 59' W., on the secant, through sec. 32. Over mountainous land, through scattering timber and undergrowth. Desc. 150 ft. to
7.21	Gulch, course N. Asc. 200 ft. to
31.05	Ridge, brs. N. and S. Desc. 600 ft.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point By 1st set, 39.98 chs. By 2nd set, 40.02 chs.; the mean of which is
40.00	S. 1 lk. from the secant, Set a granite stone, 20 X 10 X 3 ins., in a mound of stone, for reestablished std. $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on N. face; from which A pinion, 12 ins. diam., brs. N. 54 $\frac{1}{2}$ ° W., 12 lks. dist.; marked SC $\frac{1}{4}$ S32 BT. A pinion, 14 ins. diam., brs. N. 59° W., 50 lks. dist., marked SC $\frac{1}{4}$ S32 BT.
60.00	Leave timber and undergrowth, brs. N. and S.
73.80	Wood road, brs. NE. and SW. Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point

Independent Resurvey of

Sixth Standard Parallel North Through R. 18 W.

10

Chains.

80.00	<p>By 1st set, 80.04 chs. By 2nd set, 79.96 chs.; the mean of which is</p> <p>Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the ground for re-established standard cor. of secs. 31 and 32, marked SC on N.; with 5 grooves on E. and 1 groove on W. face; from which</p> <p>A cedar, 4 ins. diam., brs. N. 68$\frac{1}{2}$° E., 46 lks. dist., marked T25N R18W S32 BT. A shin oak, 4 ins. diam., brs. N. 53° W., 169 lks. dist., marked T25N R18W S31 BT.</p> <p>Land, mountainous. Soil, rocky; 4th rate. Timber, pinion and cedar. Undergrowth, laurel, buck brush, yucca and cacti.</p>
14.40	<p>S. 89° 59' W., on the secant, S. of sec. 31. Over rolling land, through scattering timber and undergrowth.</p> <p>Gulch, with stream of water, 10 lks. wide, course SW. No difference between measurements of 40.00 chs. by two sets of chainmen.</p>
40.00	<p>N. 2 lks. from the secant, Set a granite rock, 18 X 12 X 3 ins., 12 ins. in the ground for re-established standard $\frac{1}{4}$ sec. cor., marked SC $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits intractable.</p>
65.76	<p>Desc. 75 ft. to Gulch, with stream of water, 3 lks. wide, course NW. Asc. 70 ft.</p>
70.00	<p>Road, brs. NW. and SE. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 79.99 chs. By 2nd set, 80.01 chs.; the mean of which is</p>
80.00	<p>N. 4 lks. from the secant, Set an iron post, 3 ft. long; 3 ins. diam., 24 ins. in the ground for re-established standard cor. of Tps. 25 N., Rs. 18 and 19 W., marked on brass cap 1915 on S. rim; SC T25N in N. half; R19W S36 in NW. and R18W S31 in NE. quadrant; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits intractable.</p> <p>Land, rolling. Soil, rocky; 4th rate. Timber, scattering cedar. Undergrowth, cedar, cat claw, laurel, yucca and cacti.</p> <p style="text-align: right;">Feb. 15, 1915. H.G.B. & R.C.D.</p>

Independent Resurvey of

Sixth Standard Parallel North Through R. 19 W. 7

Chains.	
	<p>H.G.B. & R.C. 1915.</p>
	<p>From a point on the secant, 4 lks. S. of the re-established std. cor. of Tps. 25 N., Rs. 18 and 19 W., which is an iron post, hereinbefore described, we ran</p>
	<p>N. 89° 58' W., on the secant, S. of sec. 36.</p>
	<p>Over mountainous land, through scattering undergrowth.</p>
	<p>Asc. 355 ft. to</p>
14.75	<p>Ridge, brs. N. and S. Desc. 570 ft.</p>
	<p>Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point</p>
	<p>By 1st set, 39.99 chs.</p>
	<p>By 2nd set, 40.01 chs.; the mean of which</p>
	<p>is</p>
40.00	<p>N. 2 lks. from the secant,</p>
	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for re-established standard $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p>1915 on S. rim;</p>
	<p>SC T25N R19W in N. half;</p>
	<p>and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. SC $\frac{1}{4}$ S35 in N. half.</p>
	<p>Feb. 13, 1915. At this cor., we set off 13° 30' S. on the</p>
	<p>and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. meridian with each transit; the resulting lat. in</p>
	<p>Continued descent. 55° 30' S.</p>
65.00	<p>Foot of descent. Asc. 95 ft.</p>
68.75	<p>Spur, slopes N. Desc. 225 ft. to</p>
	<p>Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point</p>
	<p>By 1st set, 79.92 chs.</p>
	<p>By 2nd set, 80.08 chs.; the mean of which</p>
	<p>is</p>
80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for re-established std. cor. of secs. 35 and 36, marked on brass cap</p>
	<p>1915 on S. rim;</p>
	<p>SC T25N R19W in N. half;</p>
	<p>S35 in NW. and</p>
	<p>S36 in NE. quadrant;</p>
	<p>and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Site applicable.</p>
	<p>Land, mountainous.</p>
	<p>Soil, rocky; 4th rate.</p>
	<p>No timber.</p>
	<p>Undergrowth, yucca and cacti.</p>
	<p>N. 89° 59' W., on the secant, through sec. 35.</p>
	<p>Over mountainous land, through scattering undergrowth.</p>
10.00	<p>Desc. slightly to</p>
24.00	<p>Foot of descent; ascend 130 ft.</p>
	<p>Ridge, slopes NW. Desc. 190 ft. to</p>
	<p>Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point</p>
	<p>By 1st set, 39.99 chs.</p>
	<p>By 2nd set, 40.01 chs.; the mean of which</p>
	<p>is</p>
40.00	<p>S. 1 lk. from the secant,</p>
	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for re-established std. $\frac{1}{4}$ sec. cor., marked on brass cap</p>
	<p>1915 on S. rim;</p>
	<p>SC $\frac{1}{4}$ S35 in N. half;</p>
	<p>and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Site applicable.</p>
	<p>Asc. gradually 40 ft. to</p>
44.57	<p>Rock spur, slopes N. Desc. 75 ft. to</p>
50.00	<p>Enter Sacramento Valley, brs. N. and S. Thence over rolling land.</p>
52.80	<p>Road, brs. N. to Cold Basin, and S. to Chloride.</p>
72.00	<p>Old road, brs. NW. and SE.</p>

Independent Resurvey of

12 Sixth Standard Parallel North Through R. 19 W.

Chains.

80.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 79.99 chs.
 By 2nd set, 80.01 chs.; the mean of which is
 S. 2 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, marked on brass cap,
 1915 on S. rim;
 SC T25N R19W in N. half;
 S34 in NW. and
 S35 in NE. quadrant;
 dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, rolling and mountainous.
 Soil, rocky; 4th rate on slopes; gravelly, 3rd rate in valley.
 No timber.
 Undergrowth, cat claw, yucca and cacti.
 H. G. B. and R. C. D.
 Feb. 15, 1915.

R. C. D.
 Feb. 15, 1915: At 8 hrs. 3 m., a.m., l.m.t., I set off 35° 30½' N. on the lat. arc; 12° 51½' S. on the decl. arc; and determine a meridian with the solar on the secant, at the reestablished std. cor. of secs. 34 and 35.
 Thence
 N. 89° 59' W., on the secant, through sec. 34.
 Over level land, through scattering undergrowth.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st set, 39.98 chs.
 By 2nd set, 40.02 chs.; the mean of which is
 40.00 S. 3 lks. from the secant,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished standard ¼ sec. cor.; marked on brass cap, 1915 on S. rim;
 SC ¼ S34 in N. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
 50.00 Enter dense undergrowth.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st set, 79.99 chs.
 By 2nd set, 80.01 chs.; the mean of which is
 80.00 S. 3 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished standard cor. of secs. 33 and 34, marked on brass cap,
 1915 on S. rim;
 SC T25N R19W in N. half;
 S33 in NW. and
 S34 in NE. quadrant;
 dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
 Land, level.
 Soil, gravelly; 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.

Independent Resurvey of

Sixth Standard Parallel North Through R. 19 W. 13

Chains.	
40.00	<p>West on the secant, through sec. 33. Over level land, through scattering undergrowth. No difference between measurements of 40.00 chs. by two sets of chainmen.</p> <p>S. 3 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for reestablished std. $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$S33 in N. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p> <p>Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point By 1st set, 79.97 chs. By 2nd set, 80.03 chs.; the mean of which</p>
80.00	<p>is S. 2 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestablished std. cor. of secs. 32 and 33, marked on brass cap 1915 on S. rim; SC T25N R19W in N. half; S32 in NW. and S33 in NE. quadrant; dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, level. Soil, gravelly; 3rd rate. No timber. Undergrowth, greasewood and cacti.</p>
13.90 39.40	<p>S. 89° 59' W., on the secant, through sec. 32. Over level land, through scattering undergrowth. Telephone line; brs. N. 20° W., and S. 20° E. Road, brs. N. 30° W., and S. 30° E. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 39.99 chs. By 2nd set, 40.01 chs.; the mean of which</p>
40.00	<p>is S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for reestablished std. $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$S32 in N. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
41.70 42.80	<p>Road, brs. N. 30° W., and S. 30° E. Telephone line, brs. N. 30° W., and S. 30° E. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 79.99 chs. By 2nd set, 80.01 chs.; the mean of which</p>
80.00	<p>is Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestablished std. cor. of secs. 31 and 32, marked on brass cap 1915 on S. rim; SC T25N R19W in N. half; S31 in NW. and S32 in NE. quadrant; dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, level. Soil, gravelly; 3rd rate.</p>

Independent Resurvey of

14. Sixth Standard Parallel North Through R. 19 W.

Chains.

No timber.
Undergrowth, greasewood, yucca and cacti.

40.00

S. 89° 59' W., on the secant, S. of sec. 31.
Over level land, through scattering undergrowth.
No difference between measurements of 40.00 chs. by two sets of chainmen.
N. 2 lks. from the secant,
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished std. $\frac{1}{4}$ sec. cor., marked on brass cap
1915 on S. rim;
SC $\frac{1}{4}$ S31 in N. half;
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

80.00

No difference between measurements of 80.00 chs. by two sets of chainmen.
N. 4 lks. from the secant,
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished std. cor. of Tps. 25 N., Rs. 19 and 20 W., marked on brass cap
1915 on S. rim;
SC T25N in N. half;
R20W S36 in NW. and
R19W S31 in NE. quadrant;
dig pits, 30 X 24 X 12 ins., crosswise on each line, E. and W., 4 ft., and N. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor.
Land, level.
Soil, gravelly; 3rd rate.
No timber.
Undergrowth, greasewood and cacti.

R. C. D.

Independent Resurvey of

Sixth Standard Parallel North Through R. 20 W.

Chains.		
	<p>H. G. B. Feb. 23, 1915: At 8 hrs. 32 m., a.m., l.m.t., I set off 35° 30½' N. on the lat. arc; 10° 1½' S. on the decl. arc; and determine a meridian with the solar on the secant, at the re-established cor. of Secs. 25 N., Rs. 19 and 20 W., which is an iron post, hereinbefore described.</p> <p>Thence N. 89° 58' W., on the secant, S. of sec. 36. Over level land, draining S. and W., through scattering grass.</p> <p>33.93 Wash, 30 lks. wide, course NW. No difference between measurements of 40.00 chs. by two sets of chainmen.</p> <p>40.00 N. 2 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for re-established std. ¼ sec. cor., marked on brass cap 1915 on S. rim; SC ¼ S36 in N. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>42.08 Asc. slight NE. slope. Wash, 10 lks. wide, course NW.</p> <p>58.30 Wash, 35 lks. wide, 6 ft. deep, course NE. No difference between measurements of 80.00 chs. by two sets of chainmen.</p> <p>80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for re-established std. cor. of secs. 35 and 36, marked on brass cap 1915 on S. rim; SC T25N R20W in N. half; S35 in NW. and S36 in NE. quadrant; dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, level. Soil, silty, sandy loam, 1st and 2nd rate. No timber. No undergrowth. Sparse grass.</p>	
	<p>N. 89° 59' W., on the secant, through sec. 35. Over level land, through scattering undergrowth. No difference between measurements of 40.00 chs. by two sets of chainmen.</p> <p>40.00 S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for re-established std. ¼ sec. cor., marked on brass cap 1915 on S. rim; SC ¼ S35 in N. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p> <p>No difference between measurements of 80.00 chs. by two sets of chainmen.</p> <p>80.00 S. 2 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for re-established std. cor. of secs. 34 and 35, marked on brass cap 1915 on S. rim; SC T25N R20W in N. half; S34 in NW. and S35 in NE. quadrant; dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p>	

Independent Resurvey of

16. Sixth Standard Parallel North Through R. 20 W.

Chains.

Land, level.
Soil, 1st 40.00 chs., silty, sandy loam, 1st and 2nd rate;
last 40.00 chs., gravelly; 3rd rate.
No timber.
Undergrowth, cacti.

N. 89° 59' W., on the secant, through sec. 34.
Over rolling land, ascending slight E. slope, through
scattering undergrowth.

10.00 Enter greasewood undergrowth, brs. N. and S.

22.53 Wash, 10 lks. wide, course NE.

24.60 Wash, 30 lks. wide, course NE.

No difference between measurements of 40.00 chs. by two
sets of chainmen.

40.00 S. 3 lks. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
~~ground, for reestablished~~ std. $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;

SC $\frac{1}{4}$ S34 in N. half;

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.

No difference between measurements of 80.00 chs. by two
sets of chainmen.

80.00 S. 3 lks. from the secant,

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
~~ground, for reestablished~~ std. cor. of secs. 33 and 34, marked on
brass cap

1915 on S. rim;

SC T25N R20W in N. half;

S33 in NW., and

S34 in NE. quadrant;

dig pits, 24 X 18 X 12 ins., crosswise on each line,
E. and W., 3 ft., and N. of post, 7 ft. dist.; and
raise a mound of earth, 4 ft. base, 2 ft. high, N. of
cor.

Land, slightly rolling.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, greasewood and cacti.

Feb. 23, 1915: At this cor., I set off 9° 59' S. on the
decl. arc; and at apparent noon, I observe the sun on
the meridian; the resulting lat. is 35° 30 $\frac{1}{2}$ ' N.

West on the secant, through sec. 33.

Over rolling land, through scattering undergrowth.

39.93 Wash, 7 lks. wide, course NE.

Difference between measurements of 40.00 chs. by two sets
of chainmen is 2 lks.; position of middle point

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which

is

40.00 S. 3 lks. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
~~ground, for reestablished~~ std. $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;

SC $\frac{1}{4}$ S33 in N. half;

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.

51.20 Wash, 15 lks. wide, course NE.

Difference between measurements of 80.00 chs. by two sets
of chainmen is 2 lks.; position of middle point

By 1st set, 79.99 chs.

By 2nd set, 80.01 chs.; the mean of which

is

Independent Resurvey of

BOOK 3242

Sixth Standard Parallel North Through R. 20 W. 17

Chains. 80.00	<p>S. 2 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished std. cor. of secs. 32 and 33, marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; SC T25N R20W in N. half; S32 in NW. and S33 in NE. quadrant;</p> <p style="padding-left: 40px;">dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Pits inaccessible.</p> <p>Land, rolling. Soil, gravelly; 3rd rate. No timber. Undergrowth, greasewood and cacti.</p>
	<p>S. 89° 59' W., on the secant, through sec. 32. Over rolling land, through scattering undergrowth. Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point</p> <p style="padding-left: 40px;">By 1st set, 40.02 chs. By 2nd set, 39.98 chs.; the mean of which is</p>
40.00	<p>S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished std. $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; SC $\frac{1}{4}$S32 in N. half;</p> <p style="padding-left: 40px;">dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
61.03	<p>Wash, 10 lks. wide, course NE. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point</p> <p style="padding-left: 40px;">By 1st set, 79.99 chs. By 2nd set, 80.01 chs.; the mean of which is</p>
80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished std. cor. of secs. 31 and 32, marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; SC T25N R20W in N. half; S31 in NW. and S32 in NE. quadrant;</p> <p style="padding-left: 40px;">dig pits, 24 X 18 X 12 ins., crosswise on each line, E. and W., 3 ft., and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.</p> <p>Land, rolling. Soil, gravelly; 3rd rate. No timber. Undergrowth, greasewood and cacti.</p>
32.48	<p>S. 89° 59' W., on the secant, S. of sec. 31. Over rolling land, through scattering undergrowth. Wash, 10 lks. wide, course NE. No difference between measurements of 40.00 chs. by two sets of chainmen.</p>
40.00	<p>N. 2 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished std. $\frac{1}{4}$ sec. cor., marked on brass cap</p> <p style="padding-left: 40px;">1915 on S. rim; SC $\frac{1}{4}$S31 in N. half;</p> <p style="padding-left: 40px;">dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3$\frac{1}{2}$ ft. base, 1$\frac{1}{2}$ ft.</p>

Independent Resurvey of

18. Sixth Standard Parallel North Through R. 20 W.

Chains.

high, N. of cor.
 Asc. slightly to
 Difference between measurements of 80.00 chs. by two sets
 of chainmen is 2 lks.; position of middle point
 By 1st set, 79.99 chs.
 By 2nd set, 80.01 chs.; the mean of which
 is
 80.00 N. 4 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished cor. of Tps. 25 N., Rs. 20 and 21
 W., marked on brass cap
 1915 on S. rim;
 SC T25N in N. half;
 R21W S36 in NW. and
 R20W S31 in NE. quadrant;
 dig pits, 30 X 24 X 12 ins., crosswise on each line,
 E. and W.. 4 ft., and N. of post, 8 ft. dist.; and
 raise a mound of earth, 5 ft. base, 2½ ft. high,
 N. of cor.
 Land, slightly rolling.
 Soil, gravelly and rocky; 4th rate.
 No timber.
 Undergrowth, greasewood and cacti.
 After diligent search along the Sixth Standard Parallel,
 I fail to find any trace of the old corners.
 H. G. B. Feb. 25, 1915.

Survey of Sixth Standard Parallel North Through R. 21 W. 15. 19

Chains.

R. C. D.
 Mar. 4, 1915: At 9 hrs. 54 m., a.m., l.m.t., I set off
 35° 30½' N. on the lat. arc; 6° 38' S. on the decl. arc;
 and determine a meridian with the solar, on the secant,
 at the re-established std. cor. of Tps. 25 N., Rs. 20 and 21 W.,
 which is an iron post, hereinbefore described.

Thence
 N. 89° 58' W., on the secant, S. of sec. 36.
 Over gently rolling land, through short undergrowth.
 No difference between measurements of 40.00 chs. by two
 sets of chainmen.

40.00 N. 2 lks. from the secant,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for standard ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 SC ½S36 in N. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Site is applicable.

48.30 Wash, 15 lks. wide, course SE.
 75.30 Wash, 15 lks. wide, course SE.
 No difference between measurements of 40.00 chs. by two
 sets of chainmen.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 35 and 36, marked on
 brass cap
 1915 on S. rim;
 SC T25N R21W in N. half;
 S35 in NW. and
 S36 in NE. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Site is applicable.

Land, rolling.
 Soil, sand and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood, buck brush and scrub cedar.

N. 89° 59' W., on the secant, through sec. 35.
 Over gently rolling land, through short undergrowth.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 2 lks.; position of middle point
 By 1st set, 39.99 chs.
 By 2nd set, 40.01 chs.; the mean of which
 is

40.00 S. 1 lk. from the secant,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for standard ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 SC ½S35 in N. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Site is applicable.

Asc. slightly
 48.00 Top of low, round hill. Desc. slightly
 60.50 Gulch, course S. Asc. to
 79.60 Ridge, divide between Sacramento Valley and Colorado
 River Valley, brs. N. and S. Desc. 20 ft.
 Difference between measurements of 80.00 chs. by two sets
 of chainmen is 2 lks.; position of middle point
 By 1st set, 79.99 chs.
 By 2nd set, 80.01 chs.; the mean of which
 is

80.00 S. 2 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 34 and 35, marked on
 brass cap
 1915 on S. rim;
 SC T25N R21W in N. half;
 S34 in NW. and
 S35 in NE. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,

20. survey of Sixth Standard Parallel North Through R. 21 W.

Chains.	<p>N. of cor. Title is inaccessible. Land, rolling. Soil, gravelly and stony; ; 4th rate. No timber. Undergrowth, greasewood, buck brush and scrub cedar. Mar. 7, 1915: At this cor., I set off $6^{\circ} 30' 1''$ S. of the sec. cor. and at apparent noon, I observe the sun on the meridian; the resulting lat. is $35^{\circ} 30' 1''$ N.</p>
	<p>N. $89^{\circ} 59'$ W., on the secant, through sec. 34. Over mountainous land, through scattering undergrowth. Desc. 60 ft.</p>
6.50	<p>Gulch, course S. Small spring in this gulch, N. of line. Asc. slightly to</p>
8.00	<p>Top of ascent. Descend 40 ft.</p>
16.00	<p>Foot of descent. Ascend 20 ft.</p>
24.15	<p>Low spur, brs. SW. Desc. 245 ft.</p>
33.10	<p>Gulch, course SW. Small spring in gulch, N. of line. Asc. 110 ft.</p>
	<p>Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks.; position of middle point By 1st set, 39.96 chs. By 2nd set, 40.04 chs.; the mean of which is</p>
40.00	<p>S. 3 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{2}$S34 in N. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Title is inaccessible.</p>
51.20	<p>Center of wash, 1 ch. wide, 30 ft. deep, course SW. Asc. 25 ft.</p>
55.00	<p>Top of ascent. Descend 35 ft.</p>
58.00	<p>Graded road, brs. NE. to Dixie Queen Mine, and SW.</p>
58.80	<p>Wash, course SW. Asc. 45 ft.</p>
72.00	<p>Low ridge, brs. NE. and SW. Desc. 135 ft. Assay Office, Dixie Queen Mine, brs. N. $41\frac{1}{4}^{\circ}$ W.</p>
75.70	<p>Gulch, course SW. Asc. to</p>
	<p>Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks.; position of middle point By 1st set, 79.98 chs. By 2nd set, 80.02 chs.; the mean of which is</p>
80.00	<p>S. 3 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 33 and 34, marked on brass cap 1915 on S. rim; SC T25N R21W in N. half; S33 in NW. and S34 in NE. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Title is inaccessible. Land, mountainous. Soil, gravelly and rocky; 4th rate. No timber. Undergrowth, greasewood and buck brush.</p>
	<p>West on the secant, through sec. 33. Over rolling land, through scattering undergrowth. Desc. to</p>
4.00	<p>Gulch, course S.</p>
18.60	<p>Gulch, course S.</p>
28.70	<p>Wash, course NW.</p>
35.00	<p>Same wash, course SW.</p>

Survey of Sixth Standard Parallel North Through R. 21 W. 17. 21

Chains.	
35.20	Small mine, brs. N. 4.30 chs. dist. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 39.99 chs. By 2nd set, 40.01 chs.; the mean of which is
40.00	S. 3 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$ S33 in N. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits 1. & 2. accessible.
	Mar. 4, 1915. Mar. 5, 1915: At 9 hrs. 32 m., a.m., l.m.t., I set off $35^{\circ} 30\frac{1}{2}'$ N. on the lat. arc; $6^{\circ} 15\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar on the secant, at the standard $\frac{1}{4}$ sec. cor. of sec. 33. Continued line and measurement. West on the secant, through sec. 33.
55.00	Center of wash, 1 ch. wide, course SW. Asc. slightly to
62.00	Low ridge, brs. NE. and SW. Thence along broken N. slope Difference between measurements of 80.00 chs. by two sets of chainmen is 20 lks.; position of middle point By 1st set, 79.90 chs. By 2nd set, 80.10 chs.; the mean of which is
80.00	S. 2 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, marked on brass cap 1915 on S. rim; SC T25N R21W in N. half; S32 in NW. and S33 in NE. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits 1. & 2. accessible. Land, rolling. Soil, gravelly and stony; 4th rate. No timber. Undergrowth, greasewood and buck brush.
	S. $89^{\circ} 59'$ W., on the secant, through sec. 32. Over mountainous land, through scattering undergrowth. Desc. 90 ft. to
24.20	Wash, course SW. Dim road in wash, brs. NE. and SW. Thence over rolling land. Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point By 1st set, 39.98 chs. By 2nd set, 40.02 chs.; the mean of which is
40.00	S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$ S32 in N. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits 1. & 2. accessible.
	Asc. 130 ft. to
50.20	Short spur, slopes S. Desc. 335 ft. to
68.40	Gulch, course NW. Asc. slightly to
73.50	Top of ascent. Descend 95 ft.
77.30	Same gulch, course SW. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 79.99 chs. By 2nd set, 80.01 chs.; the mean of which is

22 Survey of Sixth Standard Parallel North Through R. 21 W.

Chains.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, marked on brass cap

1915 on S. rim;
SC T25N R21W in N. half;
S31 in NW. and
S32 in NE. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Ditch impracticable.

Land, rolling and mountainous.

Soil, gravelly and stony; 4th rate.

No timber.

Undergrowth, greasewood, buck brush and cacti.

At this cor. - I set off $35^{\circ} 30'$ S. on the 4th. sec. at apparent noon, I observe the sun on the meridian; the resulting lat. is $39^{\circ} 30'$ N.

S. $89^{\circ} 59'$ W., on the secant, S. of sec. 31.

Over mountainous land, through scattering undergrowth.

Desc. 15 ft. to

3.00 Gulch, course NW.

4.90 Same gulch, course S. Asc. 150 ft. to

10.30 S. end of ridge, brs. N. Desc. 180 ft. to

22.40 Gulch, course S. Asc. 70 ft. to

23.90 Ridge, brs. N. and S. Desc. 120 ft. to

30.00 Foot of descent. Ascend 25 ft.

33.00 Top of ascent. Descend 60 ft.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 N. 2 lks. from the secant,

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

1915 on S. rim;
SC $\frac{1}{4}$ S31 in N. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Ditch impracticable.

Thence over rolling land.

62.50 Wash, course SW.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 N. 4 lks. from the secant,

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of T25 N., R. 21 W., & $\frac{1}{4}$ sec. T25 N., R. 22 W., marked on brass cap,

1915 on S. rim;
SC T25N in N. half;
R22W S36 in NW. and
R21W S31 in NE. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Ditch impracticable.

Land, rolling and mountainous.

Soil, gravelly and stony; 4th rate.

No timber.

Undergrowth, greasewood and buck brush.

R. C. D.

Feb. 5, 1915

Survey of Sixth Standard Parallel North Through R. 22 W.

Chains.

H. G. B.
Mar. 12, 1915: At 8 hrs. 4 m., a.m., l.m.t., I set off
35° 30 1/2' N. on the lat. arc; 3° 33' S. on the decl. arc;
and determine a meridian with the solar on the secant,
at the ~~reestablished~~ ~~std~~ cor. of T25 N., R. 21 W. and ~~Fract.~~,
T. 25 N., R. 22 W. on post, hereinbefore described.

Thence I run
N. 89° 58' W., on the secant, S. of sec. 36.
Over rolling land, through scattering undergrowth.

- 2.30 Gulch, 30 lks. wide, course SW.
- 27.33 Gulch, course SW.
- 38.33 Gulch, course SW.

Difference between measurements of 40.00 chs. by two sets
of chainmen is 12 lks.; position of middle point
By 1st set, 39.94 chs.
By 2nd set, 40.06 chs.; the mean of which
is

- 40.00 N. 2 lks. from the secant,
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard 1/4 sec. cor., marked on brass cap
1915 on S. rim;
SC 1/4 S36 in N. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. ~~Dist. inaccessible.~~

- 52.58 Gulch, 20 lks. wide, course SW.
- 59.92 Gulch, 15 lks. wide, course SW.
- 77.77 Gulch, 15 lks. wide, course SW.

Difference between measurements of 80.00 chs. by two sets
of chainmen is 8 lks.; position of middle point
By 1st set, 79.96 chs.
By 2nd set, 80.04 chs.; the mean of which
is

- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of secs. 35 and 36, marked
on brass cap

1915 on S. rim;
SC T25N R22W in N. half;
S35 in NW. and
S36 in NE. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. ~~Dist. inaccessible.~~

Land, rolling.
Soil, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

N. 89° 59' W., on the secant, through sec. 35.
Over rolling land, through scattering undergrowth.
Desc. 55 ft.

- 15.00 Center of wash, 1. ch. wide, course SW. Asc. slightly
- 17.00 Desc. 100 ft.

Difference between measurements of 40.00 chs. by two sets
of chainmen is 12 lks.; position of middle point
By 1st set, 39.94 chs.
By 2nd set, 40.06 chs.; the mean of which
is

- 40.00 S. 1 lk. from the secant,
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for standard 1/4 sec. cor., marked on brass cap
1915 on S. rim;
SC 1/4 S35 in N. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor. ~~Dist. inaccessible.~~

- 56.75 Center of wash, 1.50 chs. wide, course SW.
- 58.00 Desc. 45 ft. to
- 66.80 Wash, 40 lks. wide, course SW.
- 71.50 Wash, 50 lks. wide, course SW.

Difference between measurements of 80.00 chs. by two sets

24. Survey Sixth Standard Parallel North Through R. 22 W.

Chains.

of chainmen is 16 lks.; position of middle point
 By 1st set, 79.92 chs.
 By 2nd set, 80.08 chs.; the mean of which
 is
 80.00 S. 2 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 34 and 35, marked on
 brass cap
 1915 on S. rim;
 SC T25N R22W in N. half;
 S34 in NW. and
 S35 in NE. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Dite inaccessible.
 Land, rolling.
 Soil, gravelly and stony; 4th rate.
 No timber.
 Undergrowth, greasewood, sage brush and cacti.

N. 89° 59' W., on the secant, through sec. 34.
 Over rolling land, through scattering undergrowth.
 Desc. 45 ft.
 13.80 Wash, 20 lks. wide, course SW.
 20.80 Wash, 20 lks. wide, course SW.
 33.30 Center of wash, 1.50 chs. wide, course SW.
 Difference between measurements of 40.00 chs. by two sets
 of chainmen is 4 lks.; position of middle point
 By 1st set, 39.98 chs.
 By 2nd set, 40.02 chs.; the mean of which
 is
 40.00 S. 3 lks. from the secant,
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for standard ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 SC ¼S34 in N. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Dite inaccessible.
 40.10 Enter wash, course SW.
 42.10 Leave wash, course SW.
 50.00 Center of wash, 1.75 chs. wide, course SW.
 51.70 Wash, 30 lks. wide, course SW.
 57.00 Wash, 45 lks. wide, course SW.
 No difference between measurements of 80.00 chs. by two
 sets of chainmen.
 80.00 S. 3 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 33 and 34, marked on
 brass cap
 1915 on S. rim;
 SC T25N R22W in N. half;
 S33 in NW. and
 S34 in NE. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. Dite inaccessible.
 Land, rolling.
 Soil, rocky; 4th rate.
 No timber.
 Undergrowth, greasewood and sagebrush.
 Mar. 12, 1915: At this cor., I set off 3° 29' N. on the
 decl. arc; and at apparent noon, I observe the sun on
 the meridian; the resulting alt. is 35° 30' N.

West on the secant, through sec. 33.
 Over rolling land, through scattering undergrowth.
 4.10 Wash, 50 lks. wide, course SW.

Survey of Sixth Standard Parallel North Through R. 22 W. Pt. 25

Chains. 37.00	Wash, 50 lks. wide, course SW. No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00	S. 3 lks. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$ S33 in N. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. <i>Pite</i>
66.50	Wash, 10 lks. wide, course SW. No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00	S. 2 lks. from the secant, Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, marked on brass cap 1915 on S. rim; SC T25N R22W in N. half; S32 in NW. and S33 in NE. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. <i>Pite</i> Land, rolling. Soil, rocky; 4th rate. No timber. Undergrowth, greasewood and sagebrush.
15.00	S. 89° 59' W., on the secant, through sec. 32. Over slightly rolling land, through scattering undergrowth. Road, brs. N. and S.
22,30	Wash, 15 lks. wide, course SW. Thence across old river bed.
	No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00	S. 1 lk. from the secant, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; SC $\frac{1}{4}$ S32 in N. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. No difference between measurements of 80.00 chs. by two sets of chainmen.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of Sec. 32 and frac. sec. 31 , mkd. on brass cap 1915 on S. rim; SC T25N R22W in N. half; S31 in NW. and S32 in NE. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. <i>Pite</i> Land, slightly rolling. Soil, 3rd rate; old river bottom. No timber. Undergrowth, greasewood and sagebrush.
1.00	S. 89° 59' W., on the secant, S. of frac. sec. 31 . Over rolling land, across old river bed, through scattering undergrowth. Wash, 50 lks. wide, course NW. Desc. 100 ft. No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00	N. 2 lks. from the secant,

26. Survey of Sixth Standard Parallel North Through R. 22 W.

Chains.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim;
 SC $\frac{1}{4}$ S31 in N. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Desc. to

53.70

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, on a solid ledge, on a cliff on the left bank of the Colorado River, 60 ft. above the water, for standard meander cor. of frac. sec. 31, marked on brass cap

1915 on S. rim;

MC W. of center;

T25N R22W SC S31 in NE. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.

Land, rough and rolling.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, greasewood.

H. G. B.

Mar. 22, 1915.

Survey of West Boundary of T. 25 N., R. 13 W.

Chains.

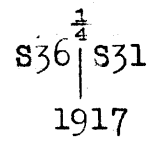
Survey executed by S. Frank Walters, U.S. Transitman, on dates shown on page 243 hereof, using a Buff solar transit No. 9985 attachment. Hereinafter described instrument, and certificate of approval, see Book .

Knowing from recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation that the solar apparatus is in good adjustment, I proceed as follows:

From the standard corner of Ts. 25 N., Rs. 13 and 14 W., (on 6th. Standard Parallel North) which is a granite stone, 36 X 18 X 8 ins., in a mound of stone, marked and witnessed as described by the Surveyor-General.

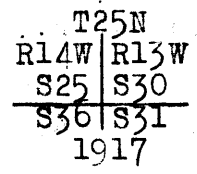
North bet. secs. 31 and 36.
Over mountainous land, through scattering timber and undergrowth.

- 7.25 Desc. 180 ft.
- 12.15 Gulch, course W. Asc. 50 ft.
- 19.05 Spur, slopes N.70° W. Desc. 195 ft.
- 21.55 Gulch, course N.80° W. Leave scattering timber, brs. E. and W. Asc. 110 ft.
- 27.55 Spur, slopes W. Desc. 180 ft.
- 37.75 Gulch, course W. Asc. 260 ft.
- 40.00 Spur, slopes W. Desc. 65 ft.
- Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap



And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

- 46.65 Gulch, course S.70° W. Asc. 340 ft.
- 55.14 Spur, slopes S.40° W. Desc. 220 ft.
- 59.25 Pipe line, brs. W. to Walker's house. Black Rock Spring in canyon with developing tunnels, brs. NE. 20. chs. dist.
- 69.15 Gulch, course SW. Asc. 105 ft.
- 75.55 Spur, slopes W. Desc. 115 ft.
- 79.24 Gulch, course W. Asc.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap



And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and pinion.
Undergrowth, cat claw, cactus and scrub oak.

North bet. secs. 25 and 30.
Over mountainous land, through scattering undergrowth.
Asc. 80 ft.

- 4.70 Spur, slopes W. Desc. 60 ft.
- 7.30 Gulch, course S.40° W. Asc. 330 ft.
- 20.20 Ridge, brs. W. and SE. Desc. 235 ft.
- 25.50 Gulch, course N.80° W. Asc. 85 ft.
- 35.80 Spur, slopes W. Desc. 185 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

West Boundary of T. 25 N., R. 13 W.

Chains.

$\frac{1}{4}$
 S25 | S30
 1917

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

- 43.40 Gulch, course S.30° W. Asc. 265 ft.
- 58.30 Spur, slopes S.80° W. Desc. 65 ft. Enter scattering timber, brs. E. and W.
- 71.40 Gulch, course S.70° W. Asc. 145 ft.
- 79.00 Spur, slopes W. Desc. 10 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

T25N
 R14W | R13W
 S24 | S19
 S25 | S30
 1917

From which

- A pinion, 14 ins. diam., brs. N.50° E., 15 lks. dist., marked T25N R13W S19 BT.
- A cedar, 10 ins. diam., brs. S.38 $\frac{1}{2}$ ° E., 28 lks. dist., marked T25N R13W S30 BT.
- A pinion, 16 ins. diam., brs. S.48 $\frac{1}{2}$ ° W., 48 lks. dist., marked T25N R14W S25 BT.
- A pinion, 8 ins. diam., brs. N.61 $\frac{1}{2}$ ° W., 76 lks. dist., marked T25N R14W S24 BT.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering cedar and pinion.
 Undergrowth, cat claw, scrub oak and cactus.

North bet. secs. 19 and 24.
 Over mountainous land, through scattering timber and undergrowth.

- 12.70 Desc. 160 ft.
- 12.70 Gulch, course N.80° W. Asc. 545 ft.
- 34.60 Top of slope, brs. N.80° W. and S.80° E. Thence over rolling mesa.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S24 | S19
 1917

From which

- A cedar, 10 ins. diam., brs. N.19 $\frac{3}{4}$ ° E., 252 lks. dist., marked $\frac{1}{4}$ S19 BT.
- A cedar, 12 ins. diam., brs. N.57 $\frac{1}{4}$ ° W., 245 lks. dist., marked $\frac{1}{4}$ S24 BT.
- 45.00 Desc. 45 ft.
- 54.00 Draw, course W. Asc. 50 ft.
- 60.00 Low spur, slopes W. Desc. 160 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

T25N
 R14W | R13W
 S13 | S18
 S24 | S19
 1917

From which

- A pinion, 8 ins. diam., brs. N.16° E., 115 lks. dist., marked T25N R13W S18 BT.

Survey of West Boundary of T. 25 N., R. 13 W.

Chains.

A pinion, 10 ins. diam., brs. S.54° E., 60 lks. dist., marked T25N R13W S19 BT.
 A cedar, 8 ins. diam., brs. S.12° W., 63 lks. dist., marked T25N R14W S24 BT.
 A pinion, 12 ins. diam., brs. N.43° W., 63 lks. dist., marked T25N R14W S13 BT.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering cedar and pinion.
 Undergrowth, scrub oak, cat claw, and mahogany.

7.50
 30.00
 40.00

North bet. secs. 13 and 18.
 Over rolling land, through scattering timber and undergrowth.
 Desc. 65 ft.
 Gulch, course N.60° W. Asc. 80 ft.
 Low spur, slopes W. Desc. 25 ft.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4
 S13 | S18
 1916

45.00
 53.10
 80.00

From which
 A cedar, 6 ins. diam., brs. S.12° E., 39 lks. dist., marked 1/4 S18 BT.
 A cedar, 10 ins. diam., brs. N.58° W., 69 lks. dist., marked 1/4 S13 BT.
 Thence over gently rolling mesa.
 Wire fence, brs. N.60° W. and S.60° E.
 Set a stone, 12 X 12 X 7 ins., 8 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S. edge; from which
 A cedar, 6 ins. diam., brs. N.43° E., 30 lks. dist., marked T25N R13W S7 BT.
 A cedar, 8 ins. diam., brs. S.55° E., 76 lks. dist., marked T25N R13W S18 BT.
 A cedar, 8 ins. diam., brs. S.63° W., 59 lks. dist., marked T25N R14W S13 BT.
 A cedar, 8 ins. diam., brs. N.27° W., 62 lks. dist., marked T25N R14W S12 BT.

Land, rolling and gently rolling mesa.
 Soil, rocky, 3rd rate.
 Timber, cedar.
 Undergrowth, scrub oak and cactus.

40.00

North bet. secs. 7 and 12.
 Over level mesa, through heavy timber.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4
 S12 | S 7
 1917

80.00

From which
 A cedar, 7 ins. diam., brs. N.64 1/2° E., 45 lks. dist., marked 1/4 S7 BT.
 A cedar, 10 ins. diam., brs. S.71 1/2° W., 147 lks. dist., marked 1/4 S12 BT.
 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

Survey of West Boundary of T. 25 N., R. 13 W.

Chains.

T25N	
R14W	R13W
S 1	S 6
<hr/>	
S12	S 7
1917	

From which
 A cedar, 16 ins. diam., brs. N.43½° E., 139 lks. dist., marked T25N R13W S6 BT.
 A cedar, 14 ins. diam., brs. S.37° E., 83 lks. dist., marked T25N R13W S7 BT.
 A cedar, 12 ins. diam., brs. S.66½° W., 224 lks. dist., marked T25N R14W S12 BT.
 A cedar, 12 ins. diam., brs. N.18° W., 154 lks. dist., marked T25N R14W S1 BT.
 Land, gently rolling.
 Soil, sandy and rocky, 2nd and 3rd rates.
 Timber, dense cedar.
 Undergrowth, scrub oak and manzanita.

North bet. secs.1 and 6.
 Over gently rolling land, through scattering undergrowth and dense timoer.

10.00 Desc. 55 ft.
 15.00 Gulch, course W. Asc. 10 ft.
 15.40 Thence over level land.
 30.00 Asc. 80 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

S 1	
S 6	
<hr/>	
1917	

From which
 A cedar, 18 ins. diam., brs. N.53° E., 283 lks. dist., marked ¼S6 BT.
 A cedar, 10 ins. diam., brs. N.11½° W., 127 lks. dist., marked ¼S1 BT.
 Thence over level land.
 58.50 Desc. 100 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of Ts. 25 and 26 N., Rs. 13 and 14 W., marked on brass cap

T26N	
R14W	R13W
S36	S31
<hr/>	
S 1	S 6
T25N	
1917	

From which
 A cedar, 6 ins. diam., brs. N.20½° E., 100 lks. dist., marked T26N R13W S31 BT.
 A cedar, 5 ins. diam., brs. S.12° E., 42 lks. dist., marked T25N R13W S6 BT.
 A cedar, 8 ins. diam., brs. S.35½° W., 68 lks. dist., marked T25N R14W S1 BT.
 A cedar, 14 ins. diam., brs. N.35½° W., 37 lks. dist., marked T26N R14W S36 BT.
 Land, level and rolling.
 Soil, rocky, 4th rate.
 Timber, dense cedar and pinion.
 Undergrowth, scrub oak and manzanita.

S.F.W.

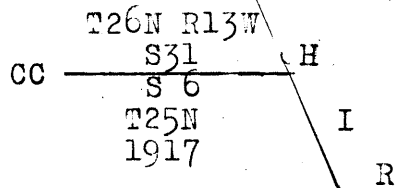
Survey of part of North Boundary of T. 25 N., R. 13 W.

Chains.

Survey commenced Jan. 31, 1917 and executed by S. Frank Walters, U.S. Transitman, using a Balfour solar transit No. 9985 hereinafter of described and certificate of approval, see book .
 Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation that it is in good adjustment, proceed to the survey of that part of the North Boundary of T. 25 N., R. 13 W. lying outside the Hualpai Indian Reservation. I begin at the cor. of Ts. 25 and 26 N., Rs. 13 and 14 W., which is an iron post, hereinbefore described.

5.00
21.00
27.77

Thence
 East on a true line, bet. secs. 6 and 31.
 Over mountainous land, through dense timber and undergrowth.
 Desc.
 Wash, 15 lks. wide, 2 ft. deep, course N. 30° W. Asc. 80 ft.
 Top of ascent; descend 25 ft. bdy.
 Intersect Hualpai Indian Reservation 6.77 chs. N. 40° W. of the 36½ mile cor., which is a rock in place, 24 X 24 X 8 ins. above ground, marked and witnessed as described by the Surveyor-General.
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 6 and 31, marked on brass cap



From which
 A cedar, 12 ins. diam., brs. N. 75½° W., 112 lks. dist., marked CC T26N R13W S31 BT.
 A cedar, 10 ins. diam., brs. S. 48½° W., 72 lks. dist., marked CC T25N R13W S6 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, scrub oak and manzanita.

Boundaries of that portion of Township 25 North, Range 13 W., outside the Bdy. of the Hualpai Indian Reservation.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary. (6th Std. Par. N.)	West.	429.48				429.48
West Boundary.	North.	480.00	480.00			
North Boundary.	East	27.77			27.77	
Hualpai Indian Reservation. Bdy.	S. 40° E.	551.64		422.58	354.59	
	S. 39° 57' E.	37.49		28.74	24.07	
	S. 40° 2' E.	36.97		28.31	23.78	
Convergency					.26	
Totals			480.00	479.63	430.47	429.48
			479.63		429.48	
Error in latitude.			.37			
Error in departure.					.99	

chains.

Survey executed by S. Frank Walters and James C. Hooper, U.S. Transitmen
 on dates shown on pages 239 and 241 hereof

Frank Walters and Jas. C. Hooper, U. S. Transitmen, using respectively Buff solar transit No. 9985 and Young and Sons' light mountain transit No. 8489, with Smith solar attachments. The instruments are 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 lat. and decl. arcs.

The instruments were approved, conditional upon satisfactory field tests, December 7, 1916, by the Assistant Supervisor of Surveys for Arizona and California. They were examined, tested on the true meridian at Phoenix, Arizona, and found correct, December 12, 1916.

In the surveys made under this group, 5-ch. tapes were used, vertical angles were read, using a clinometer on slopes and broken ground, and the true horizontal distance was computed for each item of topography.

We examine the adjustments of the transits, and correct all errors; then to test the solar apparatus, by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, we proceed as follows:-
 December 19, 1916.

At our camp, near the center of sec. 17, T. 26 N., R. 15 W., in lat. $35^{\circ} 38\frac{1}{2}'$ N., long. $113^{\circ} 54'$ W., at 1 hr. 36 m., a.m., l.m.t., by our watches, which are set to correct local mean time, we observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack driven in a stake, set in the ground, 5-chs. N. of our station.

At 8 hrs. 0 m., a.m., l.m.t., we lay off the azimuth of Polaris, $1^{\circ} 23\frac{1}{2}'$ to the east, and mark a point in the meridian thus determined by a tack driven in a stake set in the ground, 5-chs. N. of our stations.

At 9 hrs. 0 m., a.m., l.m.t., we place Buff instrument No. 9985 and Young and Sons' instrument No. 8489 on the same meridian and set off $35^{\circ} 38\frac{1}{2}'$ N. on the lat. arcs; $23^{\circ} 23'$ S. on the decl. arcs; and determine a meridian with each solar. The resulting meridian with each solar deviates less than 1' from the true meridian established by observations on Polaris at elongation.

At 3 hrs. 0 m., p.m., l.m.t., we set off $35^{\circ} 38\frac{1}{2}'$ N. on the lat. arcs; $23^{\circ} 23\frac{1}{2}'$ S. on the decl. arcs; and determine a meridian with each solar. Each meridian thus determined departs less than 1' from the true meridian determined by observations on Polaris at elongation.

The instruments, by a.m. and p.m. observations, deviate less than 1' from the true meridian determined by observations on Polaris at elongation; therefore, we conclude that they are in satisfactory adjustment.

The initials "S.F.W." and "J.C.H." are inserted at the beginning and ending of those portions of the notes describing the surveys executed by S. Frank Walters and James C. Hooper, U.S. Transitmen, respectively.

S.F.W. & J.C.H. From the cor. of Ts. 25 & 26 N., Rs. 13 and 14 W., which is an iron post, hereinbefore described,

West on a random line, along the N. bdy. of T. 25 N., R. 14 W., setting temp. $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 chs., for the areas S. of line, and at 439.45 chs., intersect the W. bdy. of T. 25 N., R. 14 W., 17 lks. S. of the cor. of Ts. 25 and 26 N., Rs. 14 and 15 W., which is an iron post, properly set, marked and witnessed as described by the Surveyor-General. The falling answers to a correction of $0^{\circ} 1'$, or 3 lks. N. per mile, counting from the NE. cor. of the T.

S.F.W.

S.F.W. & J.C.H.
 S. $89^{\circ} 59'$ E., on a true line, along the S. bdy. of sec. 31. Over mountainous land, through scattering undergrowth.
 Asc. 145 ft.
 Spur, slopes S. Desc. 105 ft.
 3.80
 9.05 Asc. 70 ft.

Survey of South Boundary of T. 26 N., R. 14 W.

Chains.

- 13.00 Rocky point, slopes SE. Desc. 230 ft.
- 21.40 Wash, 75 lks. wide, 3 ft. deep, course S.20° W. Asc. 315 ft.
- 34.80 Spur, slopes S. Desc. 180 ft.
- 39.45 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

1S 6
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap

1S31
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

- 42.40 Gulch, course S.60° W. Asc. 155 ft.
- 49.55 Desc. 25 ft.
- 50.50 Gulch, course N.70° W. Asc. 705 ft.
- 63.60 Head of same gulch, course S.50° W. Continue ascent.
- 71.20 Rocky spur, slopes S.50° W. Desc. 30 ft.
- 76.25 Asc. 75 ft.
- 79.45 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 5 and 6, T. 25 N., R. 14 W., marked on brass cap

T26N R14W
S31
S 6 | S 5
T25N
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 5 ins. in the ground, in a mound of stone, for cor. of secs. 31 and 32, T. 26 N., R. 14 W., marked on brass cap

T26N R14W
S31 | S32
S 5
T25N
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub oak and cat claw.

S.89° 59' E., on a true line, along the S. bdy. of sec. 32. Over mountainous land, through scattering undergrowth. Asc. 85 ft.

- 3.30 Spur, slopes S.20° W. Desc. 125 ft.
- 8.30 Gulch, course S. Asc. 30 ft.
- 10.00 Spur, slopes S.20° W. Desc. 70 ft.
- 12.90 Gulch, course S.40° W. Asc. 465 ft.
- 18.60 Enter scattering timber, brs. N.30° E. and S.30° W.
- 30.50 Ridge, brs. N.50° E. and S.50° W. Leave timber, brs. N.50° E. and S.50° W. Desc. 160 ft.

34 Survey of South Boundary of T. 25 N., R. 14 W.

Chains.

39.45 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap

1/2 S 5
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1/4 S 32
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

42.10 Gulch, course S. 60° W. Asc. 560 ft.

55.00 Top of ascent, brs. N. 50° W. and S. 50° E. Desc. 205 ft.

79.45 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 4 and 5, T. 25 N., R. 14 W., marked on brass cap

T26N R14W
S 32
S 51 S 4
T25N
1917

From which

A pinion pine, 8 ins. diam., brs. S. 55 1/2° E., 386 lks. dist., marked T25N R14W S4 BT.

A pinion pine, 10 ins. diam., brs. S. 10 3/4° W., 461 lks. dist., marked T25N R14W S5 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 32 and 33, T. 26 N., R. 14 W., marked on brass cap

T26N R14W
S 32 S 33
S 4
T25N
1917

From which

A juniper, 6 ins. diam., brs. N. 6° E., 306 lks. dist., marked T26N R14W S33 BT.

A juniper, 4 ins. diam., brs. N. 11° W., 193 lks. dist., marked T26N R14W S32 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and juniper.

Undergrowth, scrub oak and cat claw.

S.P.W.

J.C.H.
S. 89° 59' E., on a true line, along the S. bdy. of sec. 33. Over rolling land, through scattering timber and undergrowth.

Desc. 220 ft.

39.45 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, in a mound of stone, for $\frac{1}{2}$ sec. cor., marked on brass cap

1/2 S 4
1917

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

A pinion pine, 4 ins. diam., brs. S. 22° W., 33 lks. dist., marked 1/2 S4 BT.

Survey of South Boundary of T. 26 N., R. 14 W.

chains.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

1/4 S 33

1917

From which

A pinion pine, 18 ins. diam., brs. N.37° E., 85 lks. dist., marked $\frac{1}{4}$ S33 BT.

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

50.45 Ravine, course N.30° E. Asc. 75 ft.

62.10 Spur, slopes 1.20° E. Desc. 60 ft.

79.45 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 3 and 4, T. 25 N., R. 14 W., marked on brass cap

T26N R14W

S 33

S 41 S 3

T25N

1917

From which

A juniper, 6 ins. diam., brs. S.30° E., 172 lks. dist. marked T25N R14W S3 BT.

A juniper, 4 ins. diam., brs. S.69° W., 364 lks. dist. marked T25N R14W S4 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 33 and 34, T. 26 N., R. 14 W., marked on brass cap

T26N R14W

S33 | S34

S 3

T25N

1917

From which

A juniper, 18 ins. diam., brs. N.52 1/2° E., 28 lks. dist. marked T26N R14W S34 BT.

A juniper, 8 ins. diam., brs. N.37° W., 150 lks. dist. marked T26N R14W S33 BT.

Land, rolling.

Soil, rocky; 4th rate.

Timber, scattering juniper and pinion pine.

Undergrowth, scrub oak.

J.C.H.

S.E.W.

S.89° 59' E., on a true line, along the S. bdy. of sec. 34. Over rolling land, through scattering undergrowth and dense timber.

Desc.200 ft.

39.45 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1/4 S 3

1917

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1/4 S 34

1917

Survey of South Boundary of T. 26 N., R. 14 W.

Chains.

- 46.10 Gulch, course N. Asc. 80 ft.
- 70.00 Spur, slopes N. Desc. 45 ft.
- 79.45 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 2 and 3, T. 25 N., R. 14 W., marked on brass cap

T26N R14W
 S34
 S 3 | S 2
 T25N
 1917

From which

A cedar, 8 ins. diam., brs. S.12 $\frac{1}{2}$ ° E., 105 lks. dist., marked T25N R14W S2 BT.

A cedar, 10 ins. diam., brs. S.14° W., 48 lks. dist., marked T25N R14W S3 BT.

- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 34 and 35, T. 26 N., R. 14 W., marked on brass cap

T26N R14W
 S34 | S35
 S 2
 T25N
 1917

From which

A cedar, 6 ins. diam., brs. N.49 $\frac{1}{2}$ ° E., 39 lks. dist., marked T26N R14W S35 BT.

A cedar, 7 ins. diam., brs. N.17 $\frac{1}{2}$ ° W., 49 lks. dist., marked T26N R14W S34 BT.

Land, rolling.
 Soil, rocky, 4th rate.
 Timber, cedar.
 Undergrowth, scrub oak.

S.89° 59' E., on a true line, along the S. bdy. of sec. 35. Over rolling land, through scattering undergrowth and dense timber.

Desc. 80 ft.

- 14.65 Gulch, course N. Asc. 45 ft.
- 17.35 Fence, brs. N.30° W. and S.30° E.
- 18.50 Spur, slopes N. Desc.
- 27.15 Gulch, course N.40° W. Asc. 105 ft.
- 39.45 Spur, slopes S.
- Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 2
 1917

From which

A cedar, ins. diam., brs. N.23 $\frac{3}{4}$ ° E., 90 lks. dist., marked $\frac{1}{4}$ S2 BT.

A cedar, 10 ins. diam., brs. S.22 $\frac{1}{2}$ ° W., 154 lks. dist., marked $\frac{1}{4}$ S2 BT.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S35
 1917

South Boundary of T. 26 N., R. 14 W.

Chains.

From which
 A cedar, 6 ins. diam., brs. N.50° E., 107 lks. dist.,
 marked $\frac{1}{4}$ S35 BT.
 A cedar, 8 ins. diam., brs. N.26° W., 79 lks. dist.,
 marked $\frac{1}{4}$ S35 BT.

Desc. 50 ft.
 40.05 Gulch, course S. Asc. 240 ft.
 64.55 Spur, slopes S. Desc. 70 ft.
 79.45 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 1 and 2, T. 25 N., R. 14 W.,
 marked on brass cap

T26N R14W
S35
 S 218 1
 T25N
 1917

From which
 A cedar, 10 ins. diam., brs. S.25 $\frac{1}{2}$ ° E., 178 lks. dist.
 marked T25N R14W S1 BT.
 A cedar, 6 ins. diam., brs. S.46 $\frac{1}{2}$ ° W., 179 lks. dist.,
 marked T25N R14W S2 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
 ground, for cor. of secs. 35 and 36, T. 26 N., R. 14 W.,
 marked on brass cap

T26N R14W
S35 S36
 S 1
 T25N
 1917

From which
 A pinion pine, 10 ins. diam., brs. N.24° E., 70 lks.
 dist., marked T26N R14W S36 BT.
 A pinion pine, 8 ins. diam., brs. N.21 $\frac{1}{2}$ ° W., 96 lks.
 dist., marked T26N R14W S35 BT.

Land, rolling.
 Soil, rocky; 4th rate.
 Timber, cedar and pinion.
 Undergrowth, scrub oak and mahogany.

S.89° 59' E., on a true line, along the S. bdy. of sec. 36.
 Over rolling land, through dense timber and scattering under-
 growth.

Desc. 365 ft.
 39.45 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

S 1
 1917

39.85 Gulch, course NE. Asc. 90 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

S36
 1917

Survey of South Boundary of T. 26 N., R. 14 W.

Chains.	
45.55	Spur, slopes N.30° E. Desc. 95 ft.
64.30	Wash, 10 lks. wide, 1 ft. deep, course N. Asc. 15 ft.
67.55	Low spur, slopes N. Desc. 35 ft.
69.55	Wash, 30 lks. wide, 2 ft. deep, course N. Asc. 20 ft.
73.00	Spur, slopes N. Desc. 15 ft.
79.45	The cor. of Ts. 25 and 26 N., Rs. 13 and 14 W.
	Land, rolling.
	Soil, rocky, 4th rate.
	Timber, cedar.
	Undergrowth, scrub oak and mahogany.

Boundaries of T. 25 N., R. 14 W.

Latitudes, Departures and Closing Errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary. (6th. Std. Par. N.)	West.	480.00				480.00
West Boundary.	North.	480.00	480.00			
North Boundary.	S. 89° 59' E.	479.45		.14	479.45	
East Boundary.	South.	480.00		480.00		
Convergency.					.52	
<u>Totals.</u>			480.00	480.14	479.97	480.00
				480.00		479.97
<u>Error in latitude</u>				.14		
<u>Error in departure</u>						.03

Independent Resurvey of East bdy of Township 25 N., R. 18 W. 39 Chains.

Resurvey commenced Dec. 7, 1915, and executed by Sidney E. Blout, U.S. Surveyor, with Young and Sons' light mountain transit No. 8532, hereinbefore described.

Dates of execution shown on page 233 hereof.

At 9h. 0m. a.m., l.m.t., I set off 35° 30' N. on the lat. arc; 22° 31' S. on the decl. arc; and determine a meridian with the solar at the reestablished standard cor. of Ts. 25 N., Rs. 17 and 18 W. on the 6th Standard Parallel North, hereinbefore described.

Thence, North, on a random line along the E. bdy. of T. 25 N., R. 18 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs., and at

479.96 Fall 10 lks. W. of the cor. of Ts. 25 and 26 N., Rs. 17 and 18 W., reestablished in 1912, which is an iron post 3 ins. in diam., properly set, marked and witnessed as described by the surveyor general. The falling answers to a correction of 0° 1', or 1 lk. E. per mile, counting from the SE. cor. of the Tp.

After diligent search along this line, I fail to find any trace of the original corners, and as there are no accepted surveys tied to this line, make independent resurvey as follows:

From reestablished cor. of Ts. 25 and 26 N., Rs. 17 and 18 W., S. 0° 1' W., on a true line, bet. secs. 1 and 6.

Over mountainous land, thru. scattering undergrowth. Ascend 100 ft. on NE. slope.

3.00 Ridge, brs. E. and W. Descend 305 ft.

26.95 Wash, 10 lks. wide, course SE. Thence over rolling land, along E. slope.

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

1915 on S. rim;
S 1 in W., and
S 6 in E. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

69.15 Center of wash, 1 chain wide, course NE. Ascend 100 ft. on NW. slope.

79.96 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 6, 7 and 12, marked on brass cap,

1915 on S. rim;
T25 N in N. half;
R18 W S 1 in NW.,
R17 W S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rolling and mountainous.
Soil, gravelly, 2nd rate; and rocky, 3rd rate.
No timber.
Undergrowth, catclaw, rabbit brush and cacti.
Some grass.

S. 0° 1' W., on a true line, bet. secs. 7 and 12.
Over mountainous land, thru. scattering undergrowth. Ascend 715 ft. on N. slope.

29.40 Ridge, brs. E. and W. Descend 795 ft. on SW. slope.

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

1915 on S. rim;
S 12 in W., and
S 7 in E. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

402. Resurvey of the East boundary of Township 25 North Range 18 W.

Chains.	Continue descent to
73.00	Wash, 50 lks. wide, course S.85°E. Ascend 25 ft. on NE. slope.
80.00	Set an iron post 3 ft long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, marked on brass cap, 1915 on S rim; T25 N in N. half; R18W S12 in NW., R17W S7 in NE., S18 in SE., and S13 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous. Soil, rocky, 3rd rate. No timber. Undergrowth, rabbit brush, sage brush, catclaw and cacti. Some grass.

	S. 0° 1' W., on a true line, bet. secs. 13 and 18. Over mountainous land, thru. scattering undergrowth. Ascend 80 ft.
3.10	Top of ascent; descend to
3.60	Wash, 40 lks. wide, course N.45°E. Ascend 585 ft.
36.17	Rocky peak; descend 350 ft.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap, 1915 on S. rim; S 13 in W., and S18 in E. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
48.42	Gulch, course E. Ascend 340 ft. on NE. slope.
68.80	Ascend N. slope, to
69.41	Ridge, brs. E. and W. Descend 85 ft. on SE. slope.
80.00	Set an iron post 3 ft long, 3 ins. in diam., on solid rock, in a mound of stone, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap, 1915 on S. rim; T25 N. in N. half; R18W S13 in NW., R17W S 18 in NE., S19 in SE., and S24 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous. Soil, rocky, 3rd rate. Timber, scattering pinon. Undergrowth, scrub oak, catclaw, cacti and sage brush. Some grass.

	S. 0° 1' W., on a true line, bet. secs. 19 and 24. Over mountainous land, thru. scattering timber and undergrowth. Descend to
1.60	Gulch, course SE. Ascend 455 ft. on NE. slope.
30.15	Ridge, brs. NW and SE. Descend 340 ft.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap, 1915 on S. rim; S 24 in W., and S 19 in E. half; and raise a mound of stone, 2 ft base, 1½ ft. high, W. of cor.
45.92	Gulch, course SE. Ascend 85 ft. on NE. slope.

Independent Resurvey of East bdy. of Township 25 North, Range 18 W. 41

Chains.
 57.73 Spur, slopes E. Descend 205 ft. on SE. slope.
 70.11 Gulch, course E. Ascend 225 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 14 ins. in the ground, on solid rock, in a mound of stone, for re-established cor. of secs. 19, 24, 25 and 30, marked on brass cap,
 1915 on S. rim;
 T25N in N. half;
 R18W S24 in NW.,
 R17W S19 in NE.,
 S30 in SE., and
 S25 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, mountainous.
 Soil, rocky, 3rd rate.
 Timber, scattering pinon.
 Undergrowth, catclaw, rabbit brush, sage brush and cacti.
 Some grass.

S.0° 1'W., on a true line, bet. secs. 25 and 30.
 Over mountainous land, thru scattering timber and undergrowth.
 Ascend 50 ft.

1.40 Spur, slopes E. Descend 210 ft.
 9.82 Stream of water, 6 lks. wide, 2 ins. deep, course E. Ascend 200 ft. on N. slope.
 15.52 Top of ascent. Thence along broken E. slope.
 30.38 Ridge, brs. E. and W. Descend 120 ft.
 35.65 Gulch, course E. Ascend 75 ft.
 39.31 Spur, slopes E. Descend 35 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor., marked on brass cap,
 1915 on S. rim;
 1/4 S 25 in W., and
 S30 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

42.35 Ascend 45 ft. on N. slope.
 48.58 Ridge, brs. E. and W. Descend 25 ft.
 50.20 Ascend 65 ft. on NE. slope.
 62.10 Spur, slopes E. Descend on S. slope, 225 ft.
 71.25 Gulch, course E. Ascend 165 ft.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,
 1915 on S. rim;
 T25 N in N. half;
 R18W S25 in NW.,
 R17W S30 in NE.,
 S31 in SE., and
 S36 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft high, W. of cor.

Land, mountainous.
 Soil, rocky, 3rd rate.
 Timber, scattering pinon and wild walnut.
 Undergrowth, scrub oak, rabbit brush, sage brush and cacti.
 Some grass.

S.0° 1'W., on a true line, bet. secs. 31 and 36.
 Over mountainous land, thru scattering undergrowth.
 Ascend 285 ft. on N. slope.

12.53 Spur, slopes N. 70° E. Descend 60 ft.
 22.66 Ascend 275 ft. on broken NE. slope.
 38.80 Ridge, brs. S. 85° E. and N. 85° W. Descend 555 ft. over rocky S. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in

42. Resurvey of East bdy. of Township 25 North, Range 18 West.

Chains.

the ground, on solid rock, in a mound of stone, for re-established $\frac{1}{2}$ sec. cor., marked on brass cap,

1915 on S. rim,

$\frac{1}{4}$ S 36 in W., and

S 31 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

56.24 Gulch, course E. Ascend 75 ft.

67.80 Top of ascent; descend slightly.

70.38 Gulch, course N. 80° E. Ascend 30 ft. on NE. slope.

80.00 The reestablished standard cor. of Ts. 25 N., Rs. 17 and 18 W. hereinbefore described.

Land, mountainous.

Soil, rocky, 3rd rate.

Timber, scattering pinon and wild walnut.

Undergrowth, scrub oak, rabbit brush, sage brush and cacti.

Some grass.

S. E. B.

Independent Resurvey of the West bdy. of Township 25 N., R. 18 W. 43

Chains.

- Resurvey executed on dates shown on page 231 hereof, by H.G. Bardsley, U. S. Surveyor, with Young and Sons' light mountain transit No. 8532, hereinbefore described. From the reestablished standard cor. of T_s. 25 N., R_s. 18 and 19 W. on the 6th Standard Parallel N. hereinbefore described,
North, bet. secs. 31 and 36.
Over mountainous land, thru scattering undergrowth.
Descend 85 ft.
- 10.92 Dimroad brs. NW² and SE.
12.77 Gulch, 15 lks. wide, 3 ft. deep, course NW, Ascend 470 ft.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S rim;
S 36 in W., and
S 31 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 48.89 Ridge, brs. E² and W. Descend 500 ft.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,
1915 on S. rim;
T 25 N in N. half;
R 19W S 25 in NW.,
R 18W S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;
and raise a mound of stone, 2 ft base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, catclaw and cacti.
-
- North, bet. secs. 25 and 30.
Over rolling land, thru scattering undergrowth.
Ascend 70 ft.
- 2.37 Spur, slopes W. Descend 30 ft.
12.33 Ascend 140 ft.
19.82 Spur, slopes W. Descend 75 ft.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S rim,
S 25 in W., and
S 30 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 73.81 Wash, 15 lks. wide, course SW. Ascend slightly.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,
1915 on S. rim
T 25 N in N. half;
R 19W S 24 in NW.,
R 18W S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrant;
dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, rolling.
Soil, rocky, 3rd rate.
No timber.
Undergrowth, catclaw, yucca and cacti.
-

44. Independent resurvey of the West bdy. of Township 25 N., R. 18 W.

Chains.

- North, bet. secs. 19 and 24.
Over rolling land, thru. scattering undergrowth.
- 40.00 Set an iron post, 3 ft long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 24 in W., and
S19 in E half;
dig pits 18x18x12 ins., N. and S of post, 3 ft dist., and raise a mound of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft. high, W. of cor.
- 73.50 Wash, 30 lks. wide, course W.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,
1915 on S rim;
T25 N in N. half;
R19W S13 in NW.,
R18W S18 in NE.,
S19 in SE., and
S24 in SW. quadrant;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, rolling.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, catclaw, yucca and cacti.
-
- North, bet. secs. 13 and 18.
Over rolling land, thru. scattering undergrowth.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 13 in W., and
S18 in E. half;
dig pits, 18x18x12 ins., N. and S of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 57.90 Center of wash, 60 lks. wide, course SW.
- 61.70 Center of wash, 75 lks. wide, course SW.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 7, 12, 13 and 18, marked on brass cap,
1915 on S. rim;
T25 N in N. half;
R19WS12 in NW.,
R18WS7 in NE.,
S18 in SE., and
S13 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, rolling.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, yucca, catclaw, and cacti.
-
- North, bet. secs. 11 and 12.
Over rolling land, thru. scattering undergrowth.
Ascend gradually.
- 17.40 Wash, 10 lks. wide, course SW. Ascend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 12 in W., and
S 7 in E. half;

1000 3212

Independent resurvey of West bdy. of Township 25 North, Range 18 West. 45.

Chains.

80.00 dig pits 18x18x12 ins., N. and S^w of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 6, 7 and 12, marked on brass cap,

1915 on S. rim;
 T25N in N. half;
 R19W S1 in NW.
 R18W S6 in NE.;
 S7 in SE., and
 S12 in SW. quadrant;

dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, catclaw, yucca and cacti.

North, bet. secs. 1 and 6.

Over rolling land, thru. scattering undergrowth.

10.00 Leave rolling land, brs. NE. and SW. Ascend 200 ft.

27.75 Ridge, brs. NE. and SW. Descend 55 ft.

34.70 Foot of descent. Ascend 185 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{2}$ sec. cor., marked on brass cap,

1915 on S. rim;
 S 1 in W., and
 S6 in E. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

47.00 Ridge, brs. E* and W. Descend 175 ft.

59.00 Foot of descent; ascend 70 ft.

66.45 Ridge, brs. E. and W. Descend 140 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of T^s. 25 and 26 N., R^s. 18 and 19 W., marked on brass cap.

1915 on S. rim;
 T26 N in N., and
 T25 N in S. half;
 R19 W S36 in NW.,
 R18 W S31 in NE.,
 S6 in S^w., and
 S 1 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft high, S. of cor.

Land, rolling and mountainous.
 Soil, gravelly, 3rd rate, and rocky, 4th rate.
 No timber.
 Undergrowth, catclaw and cacti.

Note: No trace of old cors. found on this boundary.

February 10, 1917.

46. Independent resurvey of North bdy. of T. 25 N., R. 18 W.

Chains.

Resurvey executed on dates, shown, on page 231 hereof, by H. G. Bardsley, U. S. Surveyor, using a Young and Sons' light mountain transit No. 8532 hereinbefore described.

From the cor. of Ts. 25 and 26 N., Rs. 17 and 18 W., reestablished in 1912, which is a 3 in. iron post, with brass cap, marked and witnessed, as described by the surveyor General,

West, on a random line, along the N. bdy. of T. 25 N., R. 18 W., setting temp. sec. and sec. cors. at intervals of 40.00 chs., and at

479.70 Fall 25 lks. N. of the reestablished cor. of Ts. 25 and 26 N., Rs. 18 and 19 W. hereinbefore described.

This falling answers to a correction of 0° 2' or 4 lks. S. per mile, counting from the NE. cor. of the Tp., giving a true course of N. 89° 58' E. for the line.

None of the original cors. could be found. As no accepted surveys are tied to this bdy., make independent resurvey as follows:

From reestablished cor. of Ts. 25 and 26 N., Rs. 18 and 19 W.

N. 89° 58' E., on a true line, bet. secs. 6 and 31.

Over mountainous land, thru. scattering undergrowth.

Ascend 350 ft. on E. slope.

34.48 Ridge, brs. NE and SW. Descend 40 ft.

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

1915 on S. rim;
S 31 in N., and
S 6 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

42.00 Gulch, 3 lks. wide, course NW. Ascend 245 ft.

54.26 Spur, slopes N. Descend 310 ft.

68.00 Foot of descent. Ascend 15 ft.

69.17 Ridge, brs. N. and S. Descend 95 ft.

79.70 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 5, 6, 31 and 32, marked on brass cap,

1915 on S. rim;
T26N R18W in N., and
T25N in S. half;
S31 in NW.,
S32 in NE.,
S 5 in SE., and
S 6 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, yucca, catclaw, laurel and cacti.

N. 89° 58' E., on a true line, bet. secs. 5 and 32.

Over mountainous land, thru. scattering undergrowth.

Ascend 430 ft.

15.14 Ridge, brs. NE. and SW. Descend 215 ft.

28.23 Foot of descent. Ascend 160 ft.

35.22 Ridge, brs. NE. and SW. Descend 390 ft.

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

1915 on S rim,
S 32 in N., and
S 5 in S half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

52.89 Gulch, 7 lks. wide, course SW. Ascend 200 ft.

71.57 Ridge, brs. NE and SW. Descend 155 ft.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in

Independent Resurvey of North bdy of Township 25 North Range 18 W. 47

Chains

the ground for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,
 1915 on S. rim;
 T26N R18W in N., and
 T25N in S. half;
 S32 in NW.,
 S33 in NE.,
 S 4 in SE., and
 S 5 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, catclaw, cacti and laurel.

N. 89° 58' E., on a true line, bet. secs. 4 and 33.
 Over mountainous land, thru scattering undergrowth.
 Descend.

- 1.50 Gulch, 6 lks. wide, course SW. Ascend 155 ft.
- 15.72 Ridge, brs. NE. and SW. Descend 210 ft.
- 23.36 Gulch, 8 lks. wide, course SW. Ascend 1150 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap,

1915 on S. rim;
 S 33 in N., and
 S 4 in S. half;
 and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.

Continue ascent over rolling land.

- 64.00 Ascend steep slope.
- 79.21 Top of ridge, brs. N. and S. Descend 35 ft.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 3, 4, 33 and 34, marked on brass cap,

1915 on S. rim;
 T26N R18W in N., and
 T25N in S. half;
 S33 in NW., and
 S34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, stony, 4th rate.
 No timber.
 Undergrowth, yucca, cacti and laurel.

N. 89° 58' E., on a true line, bet. secs. 3 and 34.
 Over mountainous land, thru scattering undergrowth.
 Ascend 215 ft.

- 9.62 Top of main ridge, 20 lks. wide, brs. N. and S. Descend 985 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap,

1915 on S. rim;
 S 34 in N., and
 S 3 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

- 43.50 Stream of water 5 lks. wide, in gulch, course NE. Ascend slightly.
- 45.00 Top of ascent. Descend 290 ft.
- 61.24 Gulch, 5 lks. wide, course SE. Ascend slightly.

48. Independent Resurvey of North boundary of Township 25 N., R. 18 West

Chains.	
61.50	Top of ascent. Descend 265 ft.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 2, 3, 34 and 35, marked on brass cap, 1915 on S. rim; T26N R18W in N., and T25N in S. half; S34 in NW., S35 in NE., S 2 in SE., and S 3 in SW. quadrant; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinon. Undergrowth, yucca, catclaw, pinon and cacti.

	N. 89° 58' E., on a true line, bet. secs. 2 and 35. Over mountainous land, thru. scattering timber and undergrowth. Descend 165 ft.
14.72	Stream of water 6 lks. wide, in gulch, course NE. Ascend 55 ft.
24.96	Ridge, brs. N. and S. Descend 375 ft.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap, 1915 on S. rim; S 35 in N., and S 2 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Continue descent.
80.00	Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 2, 35 and 36, marked on brass cap, 1915 on S. rim; T26N R18W in N., and T25N in S. half; S35 in NW., S36 in NE., S1 in SE., and S2 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, 4th rate. Timber, pinon and palo verde. Undergrowth, palo verde, yucca, cacti and laurel.

	N. 89° 58' E., on a true line, bet. secs. 1 and 36. Over mountainous land, thru. scattering undergrowth. Descend 50 ft.
9.26	Six strand barb wire fence, brs. N. and S.
14.96	Foot of descent, brs. N. and S. Ascend 65 ft.
19.83	Ridge, of rock, brs. N. and S. Descend 205 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., marked on brass cap, 1915 on S. rim; S36 in N., S 1 in S. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
64.96	Foot of descent, brs. N. and S. Ascend 205 ft.
77.25	Ridge, brs. NE and SW. Descend 15 ft.

Independent Resurvey of North bdy. of Township 25 North, Range 18 W. 49

Chains.
80.00 The reestablished cor. of Ts. 25 and 26 N., Rs. 17 and 18 W.,
hereinbefore described.
Land, mountainous.
Soil, stony, 4th rate.
No timber.
Undergrowth, catclaw, cacti, laurel, and Spanish bayonet.
H.G.B.

Boundaries of Township 25 North, Range 18 West.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (6th. Std. Par. N.)	West,	480.00				480.00
West boundary,	North,	480.00	480.00			
North boundary,	N. 89° 58' E.	479.70	.25		479.70	
East boundary,	S. 0° 1' W.	479.96		479.96		.10
Convergency,					.52	
	Totals,		480.25	479.96	480.22	480.10
			479.96		480.10	
	Error in latitude,		.29			
	Error in departure,				.12	

50. Independent Resurvey of West bdy. of Township 25 North, Range 19 West

Chains.

- Resurvey executed on dates, shown, on page 237 hereof by Royston C. Durnford, U.S. Transitman, using a Young and Sons' light mountain transit No. 8526, hereinbefore described.
- No accepted surveys having been tied to the original cor. on this Tp. bdy., the line is subject to rectification; therefore, make independent resurvey as follows:
- It being too late in the morning to make a solar observation for true meridian from a point on the secant, 4 lks. S. of the reestablished standard cor. of Ts. 25 N., Rs. 19 and 20 W. on the 6th standard Parallel N. hereinbefore described, backsight on a flag on the secant thru. Range 19 West bearing N. 89° 58' E., and run, North, bet. secs. 31 and 36, measuring from the standard Tp. cor.
- Over level land, thru scattering undergrowth.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- 1915 on S. rim;
 $\frac{1}{4}$ S 36 in W., and
 S 31 in E. half;
- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 78.80 Wash, 15 lks. wide, $1\frac{1}{2}$ ft. deep, course N. 20° W.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,
- 1915 on S. rim;
 T25 N in N. half;
 R20 W S 25 in NW.,
 R19 W S 30 in NE.,
 S31 in SE., and
 S36 in SW. quadrant;
- dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.
-
- North, bet. secs. 25 and 30.
- Over level land, thru scattering undergrowth.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- 1915 -
 1915 in S. rim,
 $\frac{1}{4}$ S 25 in W., and
 S 30 in E. half;
- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 69.30 Wash, 10 lks. wide, $1\frac{1}{2}$ ft. deep, course NW
- 78.50 Wash, 10 lks. wide, $1\frac{1}{2}$ ft. deep, course N. 60° W.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,
- 1915 on S. rim,
 T25 W in N. half;
 R20 W S 24 in NW.,
 R19 W S 19 in NE.,
 S30 in SE., and
 S25 in SW. quadrant;
- dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.

Independent Resurvey of West bdy. of Township 25 North, Range 19 W. 51

Chains.

North, bet. secs. 19 and 24.
 Over level land, thru. scattering undergrowth.
 36.90 Telephone line, brs. N.30°W. and S.30°E.
 40.00 Road brs. NW. and SE.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S rim;
 S 24' in W., and
 S19 in E. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 42.20 Dim road, brs. NW and SE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,
 1915 on S. rim,
 T25 N in N. half;
 R20W S13 in NW.,
 R19W S18 in NE.,
 S19 in SE., and
 S24 in SW. quadrant;
 dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.

North, bet. secs. 13 and 18.
 Over level land, thru. scattering undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S rim;
 S 13 in W., and
 S18 in E. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 46.80 Telephone line, brs. N.22°W. and S.22°E.
 76.80 Wash, 20 lks. wide, 1 $\frac{1}{2}$ ft. deep, course NW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 7 and 12, marked on brass cap,
 1915 on S rim;
 T25 N in N. half;
 R20W S12 in NW.
 R19W S7 in NE.,
 S18 in SE., and
 S13 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.

North, bet. secs. 7 and 12.
 Over level land, thru. scattering undergrowth.
 2.00 Wash, 15 lks. wide, 1 ft. deep, course NW.
 27.00 Wash, 20 lks. wide, 1 $\frac{1}{2}$ ft. deep, course W.
 28.00 Dim road, brs. NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

52. Independent Resurvey of West bdy. of Township 25 N. R. 19 W.

Chains.

- 1915 on S rim;
 $\frac{1}{2}$ S 12 in W., and
 S7 in E. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor.
- 79.60 Wash, 20 lks. wide, $1\frac{1}{2}$ ft. deep, course W.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 1, 6, 7 and 12,
 marked on brass cap,
 1915 on S. rim;
 T25N in N. half;
 R20W S1 in NW.,
 R19W S6 in NE.,
 S7 in SE., and
 S12 in SW. quadrant;
 dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.
-
- North, bet. secs. 1 and 6.
 Over level land, thru scattering undergrowth.
- 38.00 Wash, 10 lks. wide, 1 ft. deep, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for reestablished $\frac{1}{2}$ sec. cor., marked on brass
 cap,
 1915 on S rim;
 $\frac{1}{2}$ S 1 in W., and
 S6 in E half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.,
 and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor.
- 54.90 Wash, 10 lks. wide, 1 ft. deep, course W.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of Ts. 25 and 26 N.,
 Rs. 19 and 20 W.; marked on brass cap,
 1915 on S rim;
 T26N in N., and
 T25N in S. half;
 R20W, S36 in NW.,
 R19W S31 in NE.,
 S6 in SE., and
 S1 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of
 cor.
 Land, level.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, greasewood and cacti.
 After diligent search along this range line, I fail to find
 any trace of the old cors.

R.C.D.

Independent Resurvey of North bdy. of Township 25 N., R. 19 W. 53.

Chains. Resurvey executed on dates shown, on page 237 hereof, by Royston C. Durnford, U.S. Transitman, using a Young and Sons' light mountain transit No. 8526, hereinbefore described.

From the reestablished cor. of Ts. 25 and 26 N., Rs. 18 and 19 W., hereinbefore described,
West, on a random line, along N. bdy. of T. 25 N., R. 19 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at

479.11 Fall 43 lks. S. of the reestablished cor. of Ts. 25 and 26 N., Rs. 19 and 20 W., hereinbefore described.
This falling answers to a correction of $0^{\circ}3'$ or 7 lks. N. per mile, counting from NE. cor. of T. 19., giving a true course for the line, $S. 89^{\circ}57' E.$
None of the original cors. could be found and as no accepted surveys have been tied to the original cors., and the line is subject to rectification; therefore, make independent resurvey of the line as follows:
Feb. 19, 1915.
From the reestablished cor. of Ts. 25 and 26 N., Rs. 19 and 20 W., hereinbefore described,
 $S. 89^{\circ}57' E.$, on a true line, bet. secs. 6 and 31.
Over level land, thru. scattering undergrowth.

39.11 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 31 in N., and
S6 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

61.40 Wash, 30 lks. wide, $1\frac{1}{2}$ ft. deep, course NW.
73.50 Wash, 30 lks. wide, $1\frac{1}{2}$ ft. deep, course SW.

79.11 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 5, 6, 31 and 32, marked on brass cap,
1915 on S. rim;
T26N in N.,
T25N in S., and
R19W in W. half;
S31 in NW.,
S32 in NE.,
S5 in in SE., and
S6 in SW. quadrant;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, level.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, greasewood and cacti.

$S. 89^{\circ} 57' E.$, on a true line, bet. secs. 5 and 32.
Over level land, thru. scattering undergrowth.

2.30 Wash, 10 lks. wide, 3 ft. deep, course SW.
40.00 Set an iron post, 3 ft long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 32 in N., and
S5 in S half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

77.00 Dim road, brs. $N. 10^{\circ} W.$, and $S. 10^{\circ} E.$
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,

54 Independent Resurvey of N.bdy. of Township 25 North, Range 19 West.

chains.

1915 on S.rim;
T26 N in N.,
T25 N in S., and
R19W in W half;
S32 in NW.,
S33 in NE.,
S4 in SE., and
S5 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Pits impracticable.

Land, level.

Soil, gravelly, 3rd rate.

No timber.

Undergrowth, greasewood and cacti.

S. 89° 57' E., on a true line, bet. secs. 4 and 33.
Over level land, thru. scattering undergrowth.

14.10 Wash, 40 lks. wide, 2 ft. deep, course SW.

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

1915 on S.rim;
S33 in N., and
S4 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

46.40 Dim road, brs. NE. and SW.

58.90 Wash, 40 lks. wide, 2 ft. deep, course NW.

68.90 Center of wash, 1 chain wide, 2 ft. deep, course NW.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 3, 4, 33 and 34, marked on brass cap,

1915 on S. rim,
T26N in N., and
T25N in S. half;
S33 in NW.,
S34 in NE.,
S3 in SE, and
S4 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, level.

Soil, gravelly, 3rd rate.

No timber.

Undergrowth, greasewood and cacti.

S. 89° 57' E., on a true line, bet. secs. 3 and 34.
Over level and rolling land, thru. scattering undergrowth.

23.00 Wash, 15 lks. wide, 6 ft. deep, course SW.

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

1915 on S.rim;
S34 in N., and
S3 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

53.00 Wash, 15 lks. wide, 8 ft. deep, course S.

65.40 Ascend W. slope, 40 ft. to

72.00 Spur, brs. S. Descend to

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 2, 3, 34 and 35, marked on brass cap,

1915 on S.rim;
T26N in N.,
T25N in S., and

Chains.

R19W in W.half;
S34 in NW.,
S35 in NE.,
S2 in SE., and
S 3 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, level and rolling.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, greasewood and cacti.

10.00 S.89° 57' E., on a true line, bet. secs. 2 and 35.
Over rolling land, thru scattering undergrowth.
Wash, 16 lks. wide, 2 ft. deep, course SW. Ascend NW. slope, 260 ft.

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

1915 on S. rim;
S 35 in N., and
S2 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

48.00 Top of ascent, spur brs. N. Descend NE. slope to
52.00 Foot of descent; wash, 50 lks. wide, 2 ft. deep, course S. Thence over rolling land.

61.00 Wash, 15 lks. wide, course SW.

74.80 Dim road brs. NE and SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 2, 35 and 36, marked on brass cap,

1915 on S. rim;
T26N in N.,
T25N in S., and
R19W in W. half;
S35 in NW.,
S36 in NE.,
S1 in SE.; and
S2 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rolling.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, greasewood, and cacti.

40.00 S.89° 57' E., on a true line, bet. secs. 1 and 36.
Over level land, thru scattering undergrowth.

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

1915 on S. rim;
S36 in N., and
S1 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

48.40 Wash, 30 lks. wide, 3 ft. deep, course SW.

53.70 Road brs. N. 30° E. and S. 30° W.

70.00 Ascend NW. slope, 40 ft. to

80.00 The reestablished cor. of Tps. 25 and 26 N., Rs. 18 and 19 W., hereinbefore described.

Land, level and rolling.
Soil, gravelly, 3rd rate.
No timber.
Undergrowth, greasewood and cacti.

R.C.D.

56. Independent Resurvey of North bdy of Township 25 N. R. 19 W.

Chains.

Boundaries of Township 25 North, Range 19 West.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (6th. Std. Par. N).	West,	480.00				480.00
West boundary,	North,	480.00	480.00			
North boundary,	S. 89° 57' E.	479.11		.43	479.11	
East boundary,	South,	480.00		480.00		
Convergency					.52	
Totals.			480.00	480.43	479.63	480.00
				480.00		479.63
Error in latitude,					.43	
Error in departure,						.37

Independent resurvey of West bdy. of Township 25 N. R. 20 W.

Chains.

Resurvey executed on dates shown on page 231 hereof, by H. G. Bardsley, U. S. Surveyor, with Young and Sons' light mountain transit No. 8532, hereinbefore described. No accepted surveys having been tied to the original cors. on this Tp. bdy., the line is subject to rectification; therefore, make independent resurvey, as follows:

At 9h.55m., a.m., l.m.t., I set off 35° 30' N. on the lat. arc; 9° 39' S. on the decl. arc; and determine a meridian with the solar at the reestablished standard cor. of T_s. 25 N., Ranges 20 and 21 W. on the 6th. Standard Parallel North, hereinbefore described.

Thence,
North, bet. secs. 31 and 36.

40.00 Over rolling land, thru. scattering undergrowth.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 36 in W., and
S 31 in E. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
T25 N in N. half;
R21W S25 in NW.,
R20W S30 in NE.,
S31 in SE., and
S36 in SW. quadrant;

dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.
Soil, gravelly and stony, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

North, bet. secs. 25 and 30.

40.00 Over rolling land, thru. scattering undergrowth.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 25 on W., and
S30 in E. half;

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

50.00 Ascend slightly.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,

1915 on S. rim;
T25N in N. half;
R21W S24 in NW.,
R20W S19 in NE.,
S30 in SE., and
S25 in SW. quadrant;

dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, and cacti.

North, bet. secs. 19 and 24.

Over rolling land, thru. scattering undergrowth.
Ascend 65 ft. to

58. Independent Resurvey of W. bdy. of Township 25 North, Range 20 West

Chains.	
21.88	Ridge, brs. E and W. Descend 55 ft. to
29.90	Ascend 30 ft. to
32.80	Ridge, brs. NW. and SE. Descend 45 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{2}$ sec. cor., marked on brass cap, 1915 on S. rim; S 24 in W., and S 19 in E. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
44.99	Gulch, 5 lks. wide, course NE.
66.65	Descend 30 ft. to
74.87	Wash, 35 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap, 1915 on S. rim; T25N in N. half; R21W S13 in NW., R20W S18 in NE., S19 in SE., and S24 in SW. quadrant; dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, stony, 4th rate. No timber. Undergrowth, greasewood and cacti.

	North, bet. secs. 13 and 18. Over rolling land, thru, scattering undergrowth. Ascend 30 ft. to
7.88	Ridge, brs. NW. and SE. Descend 40 ft. to
16.55	Ascend 105 ft. to
29.63	Ridge, brs. NW. and SE. Descend slightly to
34.60	Ascend 35 ft. to
39.60	Descend 45 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{2}$ sec. cor., marked on brass cap, 1915 on S. rim; S 13 in W., and S18 in E. half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
55.05	Wash, 5 lks. wide, course SE. Ascend 105 ft. to
61.74	Ridge, brs. NW. and SE. Descend 65 ft. to
74.70	Ascend 30 ft. to
77.65	Descend 20 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 and 18, marked on brass cap, 1915 on S. rim; T25N in N. half; R21W S12 in NW., R20W S. 7 in NE., S18 in SE., and S13 in SW. quadrant; dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling, and hilly. Soil, stony, 4th rate. No timber. Undergrowth, greasewood and cacti.

Independent Resurvey of W. bdy. of Township 25 North, Range 20 W. 59

Chains.

North, bet. secs. 7 and 12.
 Over rolling land, thru scattering undergrowth.
 Descend 115 ft.
 29.93 Wash, 50 lks. wide, course NE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S. rim;
 $\frac{1}{2}$ S 12 in W., and
 S 7 in E. half;
 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Ascend 70 ft.
 52.96 Ridge, brs. E. and W. Descend 115 ft.
 57.00 Road brs. E. and W. Vacant cabin brs. W. 6 chs. dist.
 57.97 Wash, 50 lks. wide, course E. Corral gate brs. W. 7.50 chs. dist. Ascend 55 ft.
 61.40 Road brs. NE and W.
 66.47 Ridge, brs. E. and W. Descend 45 ft.
 69.45 Wash, 7 lks. wide, course E. Ascend 100 ft.
 75.69 Top of ascent. Descend 75 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 6, 7 and 12, marked on brass cap,
 1915 on S. rim,
 T25N in N. half;
 R21W S1 in NW.,
 R20W S6 in NE.,
 S7 in SE., and
 S12 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling.
 Soil, stony, 4th rate.
 No timber.
 Undergrowth, greasewood and cacti.

 North, bet. secs. 1 and 6,
 Over rolling land, thru scattering undergrowth.
 Descend 75 ft.
 26.70 Road brs. NW. and SE. Ascend slightly.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S. rim;
 $\frac{1}{2}$ S 1 in W., and
 S 6 in E. half;
 dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Ascend 30 ft.
 55.00 Descend.
 60.18 Wash, 15 lks. wide, course NE.
 65.85 Road brs. NE. and SW.
 72.12 Wash, 20 lks. wide, course NE.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of Rs. 25 and 26 N., Rs. 20 and 21 W., marked on brass cap,
 1915 on S. rim,
 T 26 N. in N., and
 T25N in S. half;
 R21W S36 in NW.,
 R20W S31 in NE.,
 S 6 in SE., and
 S 1 in SW. quadrant;
 dig pits 24x24x12 ins., on each line, N., E. and W., 4 ft. and S. of post, 8 ft. dist., and raise a mound of earth 5 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor.
 Land, rolling. Soil, stony, 4th rate. No timber.
 Undergrowth, greasewood and cacti. H.G.B. Feb. 27, 1915.

60. Independent Resurvey of North bdy. of Township 25 North, Range 20 W.

Chains.

Resurvey executed on dates shown on page 231 hereof, by H.C. Bardsley, U.S. Surveyor, using a Young and Sons' light mountain transit No. 8532, hereinbefore described.

No accepted surveys having been tied to the original cors. on this Tp. bdy., the line is subject to rectification; therefore, make independent resurvey as follows:

From the reestablished cor. of T_s. 25 and 26 N., R_s. 19 and 20 W., hereinbefore described, a flag on the reestablished cor. of T_s. 25 and 26 N., R_s. 20 and 21 W. being plainly visible, run for said cor.

S. 89°59' W. on a true line, bet. secs. 1 and 36.

Over level land, thru scattering undergrowth.

- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;

$\frac{1}{4}$ S 36 in N., and

S 1 in S. half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 35, 36, 1 and 2, marked on brass cap,

1915 on S. rim;

T26 N. in N.,

T25 N. in S., and

R20 W. in W. half;

S35 in NW.;

S36 in NE.;

S1 in SE.;

S 2 in SW. quadrant;

dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, 2nd rate.

No timber.

Undergrowth, greasewood, buck brush, and cacti.

S. 89°59' W., on a true line, bet. secs. 2 and 35.

Over level land, thru scattering undergrowth.

- 18.61 Telephone line, iron posts, with single wire, brs. N. 27° 5' W., to Whitehills, and S. 27° 5' E. to Kingman.

- 30.10 Road brs. NE. to Mountain Springs, and SW.

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;

$\frac{1}{4}$ S 35 in N., and

S 2 in S. half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 49.15 Road brs. N. to Whitehills, and S. to Kingman.

- 76.12 Telephone line, wooden poles, two wires, brs. N. 11° 16' W., and S. 11° 16' E.

- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 2, 3, 34 and 35, marked on brass cap,

1915 on S. rim;

T26 N. in N.,

T25 N. in S., and

R20 W. on W. half;

S34 in NW.;

S35 in NE.;

S 2 in SE.;

S 3 in SW. quadrant;

dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Independent Resurvey of N. bdy. of Township 25 North, Range 20 West.

61

Chains.

Land, level.
Soil, sandy loam, 2nd rate.
No timber.
Undergrowth, greasewood, buck brush and cacti.

S. 89° 59' W., on a true line, bet. secs. 3 and 34.
Over level land, thru scattering undergrowth.

- 4.20 Wash, 20 lks. wide, course N.
15.78 Wash, 20 lks. wide, 4 ft. deep, course N.
17.00 Wash, 10 lks. wide, 5 ft. deep, course N.
18.50 Wash, 15 lks. wide, 4 ft. deep, course N.
19.35 Dry well, 12 ft. deep, on line.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{2}$ S 34 in N., and
S 3 in S. half;
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
71.15 Wash, 5 lks. wide, course NE.
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 3, 4, 33 and 34, marked on brass cap,
1915 on S. rim;
T26N in N.,
T25 N. in S., and
R20W in W. half;
S33 in NW.,
S34 in NE.,
S 3 in SE., and
S 4 in SW. quadrant;
dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.
Soil, sandy loam, 2nd rate; and gravelly, 3rd. rate.
No timber.
Undergrowth, greasewood, buck brush and cacti.

S. 89° 59' W., on a true line, bet. secs. 4 and 33.
Over level land, thru scattering undergrowth.

- 20.00 Leave level land, thence over rolling land.
21.00 Wash, 7 lks. wide, 3 ft. deep, course NE.
25.35 Road brs. NW. and SE.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{2}$ S 33 in N., and
S4 in S. half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft high, N. of cor. Pits impracticable.
43.95 Wash, 5 lks. wide, course NE.
50.42 Road brs. NW. and SE.
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,
1915 on S. rim;
T26N in N.,
T25N in S., and
R20 W in W. half;
S32 in NW.,
S33 in NE.,
S4 in SE., and
S5 in SW. quadrant;
dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

62. Independent Resurvey of N. bdy. of Township 25 N., R. 20 West.

Chains.

Land, level and rolling.
Soil, gravelly and stony, 3rd rate.
No timber.
Undergrowth, greasewood, buck brush and cacti.

S. 89°59'W., on a true line, bet. secs. 5 and 32.
Over rolling land, ascending 2° slope, thru. scattering undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S³ rim;

$\frac{1}{2}$ S 32 in N., and

S5 in S³ half;

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. or cor.

49.36 Wash, 30 lks. wide, course NE.

59.30 Center of wash, 70 lks. wide, course NE.

78.40 Wash, 25 lks. wide, course NE

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 5, 6, 31 and 32, marked on brass cap,

1915 in S. rim;

T26N in N.,

T25W in S., and

R20W in W. half;

S31 in NW.,

S32 in NE.,

S5 in SE., and

S6 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. cor.

Land, rolling.

Soil, sandy and rocky, 3rd, and 4th rate.

No timber.

Undergrowth, greasewood, buck brush and cacti.

S 89°59'W., on a true line, bet. secs. 6 and 31. -

Over rolling land, ascending 2° slope, thru. scattering undergrowth.

32.98 Wash, 20 lks. wide, course NE.

38.45 Wash, 15 lks. wide, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S³ rim;

$\frac{1}{2}$ S 31 in N., and

S 6 in S. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

40.90 Road brs. N. and S.

58.10 Road brs. NE. and SW.

67.75 Road brs. NE. and SW.

79.40 The reestablished cor. of Ts. 25 and 26 N., Rs. 20 and 21 W., hereinbefore described.

Land, rolling, drains NE.

Soil, gravelly and stony; 4th rate.

No timber.

Undergrowth, greasewood, and cacti.

Note: After diligent search along this boundary, I fail to find any trace of the old corners.

H. H. G. B.

2000 8242

Survey of the West boundary of Township 25 North, Range 21 West. 63

Chains.

Survey executed on dates shown on page 231 hereof, by H.G. Bardsley, U.S. Surveyor, using a Young and Sons' light mountain transit No. 8532, hereinbefore described.

From the standard cor. of T. 25 N., R. 21 W., and frac. T. 25 N., R. 22 W. on the 6th. Std. Parallel North, hereinbefore described,

North, bet. secs. 31 and 36.

Over rolling land, thru. scattering undergrowth.

2.50 Wash, 50 lks. wide, course SW.

7.30 Center of wash, 1 ch. wide, course W.

12.40 Wash, 50 lks. wide, course W.

20.93 Wash, 20 lks. wide, course W.

33.38 Wash, 50 lks. wide, course W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
S 36 in W., and
S 31 in E. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

42.20 Center of wash, 2.50 chs. wide, course W.

45.30 Wash, 40 lks. wide, course W.

48.00 Center of wash, 1 chain wide, course W.

52.00 Center of wash, 2.50 chs. wide, course W.

66.94 Wash, 50 lks. wide, course W.

75.90 Center of wash, 1 chain wide, course W.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
T 25 N. in N. half;
R 22 W. S 25 in NW.,
R 21 W. S 30 in NE.,
S 31 in SE., and
S 36 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood and cacti.

North, bet. secs. 25 and 30.

Over rolling land, thru. scattering undergrowth.

8.95 Center of wash, 1 chain wide, course W.

16.13 Wash, 50 lks. wide, course W.

25.92 Center of wash, 1 chain wide, course W.

36.20 Center of wash, 2 chs. wide, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
S 25 in W., and
S 30 in E. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

47.36 Wash, 50 lks. wide, course W.

59.25 Wash, 50 lks. wide, course W. Ascend 110 ft.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

1915 on S. rim;
T 25 N. in N. half;
R 22 W. S 24 in NW.,
R 21 W. S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rolling.

64. West boundary of Township 25 North, Range 21 West.

Chains.

Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

North, bet. secs. 19 and 24.
Over rolling and mountainous land, thru. scattering under-
growth.

Ascend 125 ft. to
13.00 Descend 30 ft. to
14.80 Wash, 50 lks. wide, course W. Ascend 160 ft. to
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
S 24 in W, and
S19 in E half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.
41.00 Descend 235 ft. to
58.41 Center of wash, 1 chain wide, course W. Ascend 195 ft. to
69.40 Descend 110 ft. to
73.20 Ascend 70 ft. to
80.00 Set an iron post, 3 ft. long, 3 ins. in diam. 24 ins. in
the ground, for cor. of secs. 13, 18, 19 and 24, marked on
brass cap,

1915 on S. rim;
T25 N in N. half;
R22W S13 in NW.,
R21W S18 in NE.,
S19 in SE., and S24 in SW. quadrant;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

North, bet. secs. 13 and 18.
Over rolling land, thru. scattering undergrowth.

Ascend 40 ft. to
2.00 Descend 65 ft. to
9.90 Ascend 75 ft. to
13.40 Descend 35 ft. to
15.00 Wash, 15 lks. wide, course W. Ascend 50 ft. to
18.00 Descend 35 ft. to
25.35 Center of wash, 1 ch. wide, course W. Ascend 125 ft.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
S 13 in W, and
S18 in E half;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor.
41.00 Descend to
42.38 Wash, 20 lks. wide, course W. Ascend to
52.60 Descend 25 ft. to
54.73 Center of wash, 1.50 chs. wide, course W.
58.72 Wash, 50 lks. wide, course W.
63.70 Wash, 30 lks. wide, course W.
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 7, 12, 13 and 18, marked on
brass cap,

1915 on S. rim;
T25N in N. half;
R22W S12 in NW.,
R21W S7 in NE.,
S18 in SE., and
S13 in SW. quadrant;
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Chains

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

North, bet. secs. 7 and 12.
Over rolling land, thru. scattering undergrowth.

1.80 Wash, 20 lks. wide, course SW. Ascend 40 ft. to
19.00 Descend 15 ft. to
20.00 Ascend 85 ft. to
23.40 Descend slightly to
29.70 Ascend slightly to
33.40 Descend 65 ft., to
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S rim;
S 12 in W., and
S 7 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
of cor.

Ascend 115 ft. to
55.00 Descend 125 ft. to
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 1, 6, 7 and 12, marked on
brass cap,

1915 on S. rim;
T25N in N. half;
R22W S1 in NW.,
R21W S6 in NE.,
S7 in SE., and
S12 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of
cor.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

North, bet. secs. 1 and 6.
Over rolling land, thru. scattering undergrowth.
Descend.

8.68 Center of wash, 1 chain wide, course NW.
22.45 Center of wash, 1 chain wide, course NW.
39.22 Center of wash, 2 chains wide, course W.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
S 1 in W., and
S 6 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
of cor.

53.27 Center of wash, 2 chs. wide, course W. Ascend 25 ft. to
62.50 Top of ascent. Descend 120 ft.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of Ts. 25 and 26 N., R. 21 W., and frac $\frac{1}{4}$
Ts. 25 and 26 N., R. 22 W., marked on brass cap,

1915 on S rim;
T26N in N., and
T25W in S half;
R22W S36 in NW.,
R21W S31 in NE.,
S6 in SE., and
S 1 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of
cor.

Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

66. Survey of North boundary of Township 25 N., R. 21 W.

Chains.	Survey executed on dates, shown, on page 277 hereof, by Royston C. Durnford, U.S. Transitman, using a Young and Son's light mountain transit No. 8526, hereinbefore described.
479.50	From the reestablished cor. of Ts. 25 and 26 N., Rs. 20 and 21 W., hereinbefore described,
470.50	West, on a random line, setting temp. base and sec. cor. at intervals of 40.00 chs. and sets at intervals of 40.00
	falls 28 lks. N. of cor. Ts. 25 and 26 N., R. 21 W., and frac. Ts. 25 and 26 N., R. 22 W., hereinbefore described. 21 and 22
	W., hereinbefore described. The falling answers to a correction of $0^{\circ}2'$, or 4 lks. S. per mile, counting from the NE. cor. of the Tp. giving a true course for this line of $N. 89^{\circ}58'E.$
	From cor. of Ts. 25 and 26 N., R. 21 W. and frac. Ts. 25 and 26 N., R. 22 W.,
	$N. 89^{\circ}58'E.$, on a true line, bet. secs. 6 and 31.
	Over mountainous land, thru. scattering undergrowth.
	Ascend 170 ft. to
11.10	Descend 55 ft. to
16.00	Ascend NE slope, 340 ft. to
39.50	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap,
	1915 on S rim;
	13 31 in N., and
	S6 in S. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Thence over rolling land.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,
	1915 on S. rim;
	T26 N in N.,
	T25 N. in S., and
	R21W in W. half;
	S31 in NW.,
	S32 in NE.,
	S5 in SE., and
	S6 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling and mountainous.
	Soil, gravelly and stony, 4th rate.
	No timber.
	Undergrowth, greasewood, and buck brush.

	$N. 89^{\circ}58'E.$, on a true line, bet. secs. 5 and 32.
	Over mountainous land, thru. scattering undergrowth
	Ascend 130 ft.
12.10	Ridge, brs. N. and S. Descend 235 ft.
25.30	Foot of descent. Ascend 530 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap,
	1915 on S. rim;
	13 32 in N., and
	S 5 in S. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Continue ascent.
64.70	Discovery tunnel, located by Joe Beckley, 60 lks. N. of line.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,
	1915 on S. rim;
	T26N in N.,
	T25 N in S., and
	R21W in W. half;
	S32 in NW.,
	S33 in NE.,
	S4 in SE., and
	S5 in SW. quadrant;

North. boundary of Township 25 North, Range 21 West. 67.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.

Soil, rocky. 4th rate.

No timber.

Undergrowth, buck brush, and greasewood.

N. 89° 58' E., on a true line, bet. secs. 4 and 33.

Over mountainous land, thru. scattering timber and undergrowth.

Ascend 80 ft.

- 5.75 Top of ascent; descend 10 ft.
- 6.45 Foot of descent; ascend 120 ft.
- 14.40 Top of ascent; descend 170 ft.
- 20.70 Foot of descent; ascend 90 ft.
- 24.90 Top of ascent; descend 25 ft.
- 30.50 Foot of descent; ascend 180 ft.
- 38.80 Top of ascent; descend slightly.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, 1915 on S. rim; 1S 33 in N., and S4 in S. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Ascend 320 ft.

- 55.70 Spur, slopes N. Descend 145 ft.
- 61.50 Gulch, course N. Ascend 480 ft.
- 79.45 Top of ascent; descend 15 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked on brass cap, 1915 on S. rim; T26W in N., T25W in S., and R21W in W half; S33 in NW., S34 in NE., S3 in SE., and S4 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.

Soil, stony, 4th rate.

Timber scattering cedar.

Undergrowth, buck brush.

N. 89° 58' E., on a true line, bet. secs. 3 and 34.

Over mountainous land, thru. scattering timber and undergrowth.

Descend slightly.

- 2.00 Gulch, course N. Ascend 85 ft.
- 11.10 Top of ascent; descend 205 ft.
- 27.70 Foot of descent; ascend 85 ft.
- 31.25 Top of ascent; descend 195 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, 1915 on S. rim; 1S 34 in N., and S3 in S half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

- 42.90 Gulch, course N. Ascend 75 ft.
- 47.10 Spur, slopes N. Descend 60 ft.
- 55.60 Gulch, course NW. Ascend 185 ft.
- 66.60 Low ridge, brs. N. and S. Descend 150 ft.
- 75.20 Gulch, course N. Ascend 70 ft.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap,

68. North boundary of Township 25 North, Range 21 West.

Chains.

1915 in S. rim;
 T26N in N.,
 T25N in S., and
 R21W in W. half;
 S34 in NW.,
 S35 in NE.,
 S2 in SE., and
 S3 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravel and stone, 4th rate.

Timber, scattering cedar.

Undergrowth, buck brush.

N. $89^{\circ}58'E.$, on a true line, bet. secs. 2 and 35.

Over mountainous land, thru. scattering timber and undergrowth.

Ascend.

6.00 Ridge, brs. NE. and SW. Descend 480 ft. on SE. slope.

36.20 Spur, slopes SE. Descend NE. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam. & 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap,

1915 on S. rim;
 S 35 in N., and
 S 2 in S. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

53.00 Ascend 250 ft.

68.00 Low ridge, brs. N. $80^{\circ}W.$ and S. $80^{\circ}E.$ Descend 90 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,

1915 on S. rim;
 T26 N in N.,
 T25 N in S., and
 R21W in W. half;
 S35 in NW.,
 S36 in NE.,
 S1 in SE., and
 S2 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravel and stone, 4th rate.

Timber, scattering cedar.

Undergrowth, buck brush and cacti.

N. $89^{\circ}58'E.$, on a true line, bet. secs. 1 and 36.

Over mountainous and rolling land, thru. scattering undergrowth.

Ascend slightly.

1.00 Low spur, brs. N. and S. Descend 595 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap,

1915 on S. rim;
 S36 in N., and
 S1 in S. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

70.60 Spur, slopes NE. Descend 130 ft.

77.60 Pipe line, brs. N. and S.

80.00 The reestablished cor. of Ts. 25 and 26 N., Rs. 20 and 21 W. hereinbefore described.

Land, rolling and mountainous.

Soil, gravel and stony; 4th rate.

No timber.

Undergrowth, buck brush and cacti.

R. C. D. N. 31, 1915.

Boundaries of Township 25 North, Range 20 West.
Latitudes, departures, and closing errors.

Line designated,	True bearing,	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (6th.Std.Par.N).	West,	480.00				480.00
West boundary,	North,	480.00	480.00			
North boundary,	N.89°59'E.	479.40	.14		479.40	
East boundary,	South,	480.00		480.00		
Convergency,					.52	
Totals,			480.14	480.00	479.92	480.00
			480.00			479.92
Error in latitude,			0.14			
Error in departure,						.08

Boundaries of Township 25 North, Range 21 West.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (6th.Std.Par.N.)	West,	480.00				480.00
West boundary,	North,	480.00	480.00			
North boundary,	N.89°58'E.	479.50	.28		479.50	
East boundary,	South,	480.00		480.00		
Convergency,					.52	
Totals,			480.28	480.00	480.02	480.00
			480.00		480.00	
Error in latitude,			.28			
Error in departure,						.02

Survey of part of N. bdy. of frac. Township 25 North, Range 22 West.

Chains.

Survey executed on dates shown on page 231 hereof, by CH. G. Bardstley, U.S. Surveyor, with Young and Sons' light mountain transit No. 8532, hereinbefore described.

From cor. of Ts. 25 and 26 N., R. 21 W., and frac. Ts. 25 and 26 N., R. 22 W. hereinbefore described, West, on a true line, bet. secs. 1 and 36.

Over mountainous land, thru. scattering undergrowth. Descend to

- 5.00 Wash, 10 lks. wide, course NW. Ascend 60 ft.
- 8.05 Ridge, brs. N. and S. Descend 90 ft.
- 9.72 Foot of descent. Ascend 215 ft.
- 20.66 Ridge, brs. NW. and SE. Descend 325 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 - 1915 on S rim;
 - $\frac{1}{4}$ S 36 in N., and
 - S 1 in S. half;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft high, N. of cor.

Ascend 50 ft.

- 44.95 Top of ascent. Descend 310 ft.
- 59.20 Foot of descent. Ascend 25 ft.
- 61.15 Top of ascent. Descend 40 ft.
- 64.90 Foot of descent. Ascend 50 ft.
- 68.00 Top of ascent. Descend 130 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,
 - 1915 on S. rim;
 - T26 N R 22W in N., and
 - T25 N in S half;
 - S35 in NW.;
 - S36 in NE.;
 - S 1 in SE., and
 - S 2 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, and cacti.

West, on a true line, bet. secs. 2 and 35.

Over mountainous land, thru. scattering undergrowth.

Descend 75 ft.

- 4.88 Wash, 50 lks. wide, course NW. Ascend 25 ft.
- 7.00 Top of ascent. Descend 65 ft.
- 9.45 Foot of descent. Ascend 135 ft.
- 15.57 Ridge, brs. N. and S. Descend 185 ft.
- 22.69 Wash, 10 lks. wide, course NW. Ascend 155 ft.
- 24.91 Ridge, brs. N. and S. Descend 300 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 - 1915 on S. rim;
 - $\frac{1}{4}$ S 35 in N., and
 - S 2 in S. half;
 and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

- 54.75 Foot of descent. Ascend 15 ft.

- 55.70 Top of ascent. Descend 175 ft.

- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap,
 - 1915 on S. rim,
 - T26N R22W in N., and
 - T25N in S. half;
 - S34 in NW.;
 - S35 in NE.;
 - S2 in SE., and
 - S3 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

72 Survey of part of North bdy. of Township 25 North, Range 22 W.

Chains.

Land, mountainous.
Soil, rocky, 4th rate. No timber.
Undergrowth, greasewood, and cacti.

West, on a true line, bet. secs. 3 and 34.
Over mountainous land, thru scattering undergrowth.
Descend to

- 5.85 Wash, 50 lks. wide, course NW. Ascend 25 ft.
- 9.00 Top of ascent. Descend 95 ft.
- 24.66 Center of wash, 1 chain wide, course NW. Ascend slightly.
- 27.00 Top of ascent. Descend 175 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
1915 on S. rim;
 $\frac{1}{4}$ S 34 in N. and
S 3 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft high, N. of cor.
- 58.95 Center of wash, 5 chs. wide, course NW. Ascend slightly.
- 60.00 Top of ascent. Descend 75 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked on brass cap,

1915 on S. rim;
T26N R22W in N., and
T25N in S. half;
S33 in NW.;
S34 in NE.,
S3 in S., and
S4 in SW. quadrant;

dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood and cacti.

H. G. B.

Boundaries of that portion of fracl. T. 25 N., R. 22 W., subdivided under this group.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy. of Tp. (6th. Std. Par. N.)	West,	453.70				453.70
Meanders left bank Colo. River,	Various,	Various	242.64	3.39	104.55	25.81
Subdivisional boundary.	East,	54.75			54.75	
	N. 89° 55' E.	80.22	.12		80.22	
	N. 0° 2' W.	160.00	160.00			.09
North bdy. of Tp.,	East,	240.00			240.00	
	East bdy. of Tp.,	South,	480.00		480.00	
Convergency,					.31	
Totals,			482.76	483.39	479.83	479.74
				482.76	479.74	
Error in latitude,			0.63			
Error in departure,					0.09	

Survey of Part of the W. bdy. of T. 26 N., R. 13 W.

Chains.

Survey executed on dates shown on page 243 hereof, by S. Frank Walters, U.S. Transitman, using Buff solar transit No. 9985, hereinbefore described.

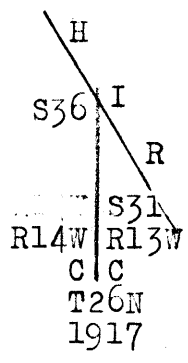
Recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation demonstrate that it is satisfactory adjustment.

the survey of part of the W. bdy. of T. 26 N., R. 13 W.

From the cor. of Ts. 25 and 26 N., Rs. 13 and 14 W. which is an iron post, hereinbefore described,

5.00
19.00
33.07

North bet. secs. 31 and 36.
Over rolling land, through scattering timber and undergrowth.
Desc. 25 ft.
Draw, course W. Asc. 80 ft.
Spur, slopes W. Desc. 120 ft.
Intersect Hualpai Indian Reservation Boundary, 9.89 chs. N.40° W. of the 36 mile cor., which is a rock in place, 36 X 24 X 6 ins. above ground, marked and witnessed as described by the Surveyor-General.
At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 31 and 36, marked on brass cap



From which
A cedar, 6 ins. diam., brs. S.16° E., 69 lks. dist., marked CC T26N R13W S31 BT.
A cedar, 14 ins. diam., brs. N.85° W., 181 lks. dist., marked CC T26N R14W S36 BT.
Land, rolling.
Soil, rocky, 4th rate.
Timber, cedar and pinion.
Undergrowth, scrub oak and cat claw.

S.F.W.

Boundaries of that part of T. 26 N. R. 13 W. situated outside the Hualpai Indian Reservation, Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	West.	27.77				27.77
West Boundary.	North.	33.07	33.07			
Hualpai Indian Reservation Boundary.	S.40° E.	43.12		33.03	27.72	
Convergency					0	
Totals.			33.07	33.03	27.72	27.77
			33.03			27.72
Error in latitude			.04			
Error in departure					.05	

Survey of West Boundary of T. 26 N., R. 14 W.

Chains.

Survey executed on dates shown on page 239 hereof, by James C. Hooper, U. S. Transitman, using a Young and Sons light mountain transit No. 8489, hereinbefore described. Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation demonstrate that the solar apparatus is in satisfactory adjustment.

From the cor. of Ts. 25 and 26 N., Rs. 14 and 15 W., which is an iron post, hereinbefore described. (Reestablished in 1910).

North on a random line, along the W. bdy. of T. 26 N., R. 14 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 480.35 chs., fall 43 lks. E. of the cor. of Ts. 26 and 27 N., Rs. 14 and 15 W., which is an iron post, hereinafter described. The falling answers to a correction of 0° 3', or 7 lks. W. per mile, counting from the SW. cor. of the Tp. I return to the cor. of Ts. 25 and 26 N., Rs. 14 and 15 W.,

Thence N. 0° 3' W., on a true line, bet. secs. 31 and 36. Over mountainous land, through scattering undergrowth. Asc. 250 ft.

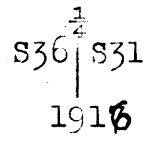
7.00 Spur, slopes S. 50° W. Desc. 85 ft.

14.55 Asc. 135 ft.

19.00 Ridge, brs. N. 60° W. and S. 60° E. Desc. 485 ft.

28.00 Ravine, course N. 30° W. Continue descent.

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



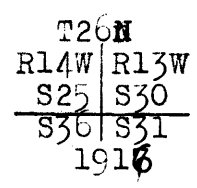
And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

44.09 Ravine, course N. 65° W. Asc. 135 ft.

53.22 Spur, slopes N. 50° W. Desc. 220 ft.

68.01 Foot of slope, brs. NE and SW. Thence over gently rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap



And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous and gently rolling.

Soil, rocky; 4th rate.

Timber, none.

Undergrowth, cat claw.

N. 0° 3' W., on a true line, bet. secs. 25 and 30. Over nearly level land, through scattering undergrowth.

1.35 Wash, 10 lks. wide, 1 ft. deep, course S. 50° W.

13.80 Four wire fence, brs. N. 30° W. and S. 30° E.

14.00 Wash, 2 chs. wide, course W.

16.80 From this point, wire corral, 2 chs. square, brs. W. 2 chs. dist. Tent house brs. W. 7 chs. dist.

19.31 Leave flat, brs. NW. and SE. Asc. 1005 ft.

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

Survey of West Boundary of T. 26 N., R. 14 W.

Chains.

$\frac{1}{4}$
 S25 | S30
 1916

- 52.13 And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Ridge, brs. N.60° E. and S.60° W. Enter scattering timber, brs. N.60° E. and S.60° W. Desc.
- 57.13 Asc. 25 ft.
- 60.56 Spur, slopes N.50° W. Desc. 450 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

T26N
 R15W | R14W
 S24 | S19

 S25 | S30
 1916

From which
 A pinion pine, 6 ins. diam., brs. N.59° E., 81 lks. dist., marked T26N R14W S19 BT.
 A pinion pine, 8 ins. diam., brs. S.42 $\frac{1}{2}$ ° E., 40 lks. dist., marked T26N R14W S30 BT.
 A pinion pine, 12 ins. diam., brs. S.50 $\frac{1}{2}$ ° W., 100 lks. dist., marked T26N R15W S25 BT.
 A pinion pine, 12 ins. diam., brs. N.33 $\frac{1}{2}$ ° W., 132 lks. dist., marked T26N R15W S24 BT.
 Land, nearly level and mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering pinion pine.
 Undergrowth, scrub oak and cat claw.

- 19.84 N.0° 3' W., on a true line, bet. secs. 19 and 24. Over mountainous land, through scattering timber and undergrowth. Desc. 455 ft.
- Ravine, course N.35° W. Leave timber, brs. N.35° W. and S.35° E. Asc. 490 ft.
- 32.00 Spur, slopes N.80° W. Desc. 90 ft.
- 39.60 Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S24 | S19
 1916

- 44.61 And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Spur, slopes N.70° W. Desc. 250 ft.
- 64.06 Wash, 30 lks. wide, 10 ft. deep, course S.55° W. Asc. 390 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

T T26N
 R15W | R14W
 S13 | S18

 S24 | S19
 1916

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of of cor.
 Land, mountainous.
 Soil, rocky; 4th rate.

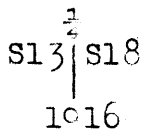
Survey of West Boundary of T. 26 N., R. 14 W.

Chains.

Timber, scattering pinion pine.
Undergrowth, scrub oak.

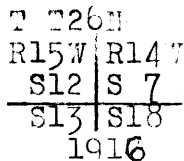
N.0° 3' W., on a true line, bet. secs. 13 and 18.
Over mountainous land, through scattering undergrowth.
Asc. 160 ft.

5.62 Spur, slopes S.70° E. Desc. 30 ft.
14.13 Ravine, course S.20° E. Asc. 770 ft.
27.29 Limestone cliffs, 30 ft. high, br. N.50° E. and S.50° W.
30.76 Enter scattering timber, brs. N.50° E. and S.50° W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap



And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W
of cor.

43.31 Spur, slopes S.50° E. Desc. 25 ft.
56.50 Asc. 670 ft.
60.88 Lime stone, cliff, 190 ft. high, brs. E. and W. Continue
ascent.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the
ground, in a mound of stone, for cor. of secs. 7, 12,
13 and 18, marked on brass cap

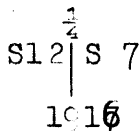


From which
A pinion pine, 5 ins. diam., brs. N.5 $\frac{1}{2}$ ° E., 48 lks. dist.,
marked T26N R14W S7 BT.
A pinion pine, 5 ins. diam., brs. S.67 $\frac{1}{2}$ ° E., 42 lks. dist.,
marked T26N R14W S18 BT.
A pinion pine, 10 ins. diam., brs. S.22 $\frac{1}{2}$ ° W., 136 lks.
dist., marked T26N R15W S13 BT.
A pinion pine, 9 ins. diam., brs. N.52° W., 33 lks.
dist., marked T26N R15W S12 BT.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinion pine and juniper.
Undergrowth, scrub oak.

N.0° 3' W., on a true line, bet. secs. 7 and 12.
Over mountainous land, through scattering timber and under-
growth.
Asc. 110 ft.

8.15 Divide, brs. N.30° W. and S.30° E. Desc. 390 ft.
25.03 Ravine, course N.70° E. Asc. 110 ft.
32.18 Spur, slopes N.70° E. Desc. 85 ft.
37.10 Draw, course E. Asc. 65 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap



From which
A pinion pine, 5 ins. diam., brs. S.2 $\frac{3}{4}$ ° E., 104 lks.

78 Survey of West Boundary of T. 26 N., R. 14 W.

Chains.

dist., marked $\frac{1}{4}$ S7 BT.
 A pinion pine, 6 ins. diam., brs. S.28 $\frac{1}{2}$ ° W., 60 lks.
 dist., marked $\frac{1}{4}$ S12 BT.
 Spur, slopes S.70° E. Desc.
 42.99 Asc.
 46.00 Ridge, brs. N.60° E. and S.60° W. Desc. 230 ft.
 50.46 Ravine, course N.70° E. Asc. 165 ft.
 69.11 Ridge, brs. N.50° E. and S.50° W. Desc. 160 ft.
 77.02 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the
 80.00 ground, in a mound of stone, for cor. of secs. 1, 6, 7
 and 12, marked on brass cap

T26N	
R15W	R14W
S 1	S 6

S12	S 7
1916	

From which
 A pinion pine, 5 ins. diam., brs. N.56° E., 45 lks.
 dist., marked T26N R14W S6 BT.
 A pinion pine, 4 ins. diam., brs. S.89° E., 43 lks.
 dist., marked T26N R14W S7 BT.
 A pinion, 6 ins. diam., brs. S.59 $\frac{3}{4}$ ° W., 42 lks. dist.,
 marked T26N R15W S12 BT.
 A pinion, 6 ins. diam., brs. N.21 $\frac{1}{4}$ ° W., 27 lks. dist.,
 marked T26N R15W S1 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering juniper and pinion pine.
 Undergrowth, scrub oak and manzanita.

N.0° 3' W., on a true line, bet. secs. 1 and 6.
 Over mountainous land, through scattering timber and under-
 growth.
 Desc. 230 ft.
 5.24 Ravine, course N.50° W. Continue descent.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
 ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
 brass cap

$\frac{1}{4}$	
S 1	S 6

1916	

From which
 A juniper, 9 ins. diam., brs. N.52° E., 136 lks. dist.,
 marked $\frac{1}{4}$ S6 BT.
 A pinion pine, 6 ins. diam., brs. N.79 $\frac{1}{4}$ ° W., 170 lks.
 dist., marked $\frac{1}{4}$ S1 BT.
 43.68 Three wire fence, brs. N.60° E. and S.60° W.
 46.99 Draw, course E. Asc. 205 ft.
 59.24 Spur, slopes N.50° E. Desc. 65 ft.
 70.01 Ravine, course N.50° E. Asc. 80 ft.
 75.82 Ridge, brs. N.70° E. and S.70° W. Desc.
 80.35 The cor. of Ts. 26 and 27 N., Rs. 14 and 15 W. hereinafter
 Land, mountainous. described.
 Soil, rocky, 4th rate.
 Timber, scattering pinion pine and juniper.
 Undergrowth, scrub oak and manzanita.

Survey of Part of the North Boundary of T. 26 N., R. 14 W.

Chains.

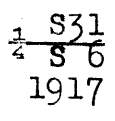
Survey executed on dates shown on page 243 hereof, by S. Frank Walters, U.S. Transitman, using Buff solar transit No. 9985, hereinbefore described.

Recent and repeated tests of this instrument on a meridian established by observation on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

From the cor. of Ts. 26 and 27 N., Rs. 14 and 15 W., which is an iron post, hereinafter described, East on a true line, bet. secs. 6 and 31. Over mountainous and rolling land, through scattering timber and dense undergrowth.

40.00

Desc. 395 ft. Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap



From which

A cedar, 9 ins. diam., brs. N.69° W., 28 lks. dist., marked 1/4 S31 BT.

A pinion, 8 ins. diam., brs. S.2° W., 34 lks. dist., marked 1/4 S6 BT.

47.80

Draw, course N.40° E. Asc. 55 ft.

50.00

Wire fence, brs. NE. and SW.

52.50

Thence along N. slope.

59.40

Desc. 55 ft.

65.80

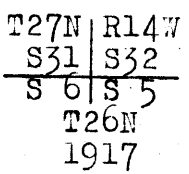
Gulch, course N. Asc. 65 ft.

70.50

Spur, slopes N.85° E. Desc.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap



From which

A pinion, 10 ins. diam., brs. N.42 1/4° E., 122 lks. dist., marked T27N R14W S32 BT.

A cedar, 12 ins. diam., brs. S.86 1/4° E., 138 lks. dist., marked T26N R14W S5 BT.

A cedar, 15 ins. diam., brs. S.27° W., 290 lks. dist., marked T26N R14W S6 BT.

A cedar, 15 ins. diam., brs. N.8 1/2° W., 259 lks. dist., marked T27N R14W S31 BT.

Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinion. Undergrowth, scrub oak and manzanita.

East on a true line, bet. secs. 5 and 32. Over mountainous land, through scattering timber and dense undergrowth.

5.00

Asc. Spur, slopes N.70° E. Desc. 145 ft.

13.80

Wire fence, brs. NW. and SE.

17.40

Draw, course NE. Asc. 40 ft.

22.64

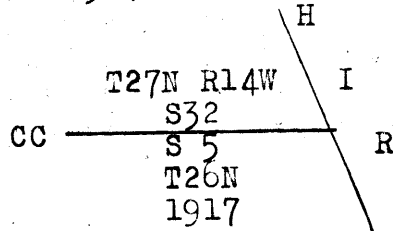
Intersect Hualpai Indian Reservation Bdy., 3.16 chs. S.40° E. of the 28 1/2 mile cor., which is a limestone, 6 X 20 X 8 ins. above ground, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long,

Survey of Part of the North Boundary of T. 26 N., R. 14 W.

Chains.

2 ins. diam., in a mound of stone, for closing cor. of secs. 5 and 32, marked on brass cap



And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering pinion and juniper.
 Undergrowth, scrub oak and manzanita.

Boundaries of that portion of T. 26 N., R. 14 W., outside the Hualpai Indian Reservation.

Latitudes, departures and closing errors.

Line designated	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	N. 89° 59' W.	479.45	.14			479.45
West Boundary.	N. 0° 3' W.	480.35	480.35			.43
North Boundary.	East	102.64			102.64	
Hualpai Indian Reservation Boundary	S. 40° 7' E.	36.69		28.06	23.64	
	S. 40° 14' E.	39.80		30.38	25.71	
	S. 40° E.	390.11		298.82	250.76	
	S. 39° 41' E.	39.56		30.47	25.26	
	S. 40° 17' E.	40.02		30.53	25.88	
	S. 39° 39' E.	39.75		30.61	25.36	
East Boundary	South			33.07		
Convergency					.32	
Totals			480.49	481.94	479.57	479.88
				480.49		479.57
Error in latitude				1.45		
Error in departure						.31

Retracement and Resurvey of
Parts of South boundary of Township 26 North, Range 15 West. 81

Chains.

Retracement Resurvey executed on dates shown on page 239 hereof, by James C. Hooper, U. S. Transitman, using Young and Sons' light mountain transit No. 8489 hereinbefore described.
Recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.
I proceed with the retracements in the following order:
R. 15 W.

RETRACEMENT.

39.87 From the cor. of Ts. 25 and 26 N., Rs. 14 and 15 W., which is an iron post, hereinbefore described,
N. 89° 58' W., on random line, bet. secs. 1 and 36.
Over mountainous land, through scattering undergrowth.
Fall 6 lks. S. of the original 1/4 sec. cor. bet. secs. 1 and 36, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.
The true course and distance of this half mile is therefore N. 89° 53' W., 39.87 chs.

39.50 From the 1/4 sec. cor.,
N. 89° 58' W., on random line, bet. secs. 1 and 36. (W. 1/2) /
Intersect original cor. of secs. 1, 2, 35 & 36, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.
The true course and distance of this half mile is therefore N. 89° 58' W., 39.50 chs.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scattering cat claw.

40.00 From the cor. of secs. 1, 2, 35 and 36,
N. 89° 58' W., on random line, bet. secs. 2 and 35.
Over rolling land, through scattering undergrowth.
The original 1/4 sec. cor., bet. secs. 2 and 35, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.
The true course and distance of this half mile is therefore N. 89° 58' W., 40.00 chs.

40.16 From the 1/4 sec. cor.,
N. 89° 58' W., on random line, bet. secs. 2 and 35. (W. 1/2).
Fall 4 lks. S. of the original cor. of secs. 2, 3, 34 and 35, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.
The true course and distance of this half mile is therefore N. 89° 55' W., 40.16 chs.

Land, rolling.
Soil, sandy and rocky, 4th rate.
No timber.
Undergrowth, cat claw.

RESURVEY: PART OF S. BDY of TOWNSHIP 26 NORTH, RANGE 15 W.

0.63 I return to the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp. I alter the markings on the brass cap to refer to secs. 1 and 2, T. 25 N., R. 15 W., only.
Thence
N. 89° 58' W., on a true line, along the N. bdy. of sec. 2, T. 25 N., R. 15 W.
Over rolling land, through scattering undergrowth.
(80.00 chs. from the cor. of Ts. 25 and 26 N., Rs. 14 and 15 W.)
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 35 and 36, T. 26 N., R. 15 W., marked on brass cap

82 Resurvey of part of South bdy. of Township 26 N., R. 15 West.

Chains.

T26N | R15W
S35 | S36

S 2
T25N
1917

And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

3.33 Ravine, course S.40° W.

19.57 Wash, 12 lks. wide, 30 ins. deep, course S.60° W.

40.00 The original 1/4 sec. cor. of secs. 2 and 35, hereinbefore described, which I alter to refer to sec. 2 only.

Thence, continuing measurement,

40.39 N.89° 55' W., on a true line, along W. bdy. of sec. 2 (W. 1/4). Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for reestablished 1/4 sec. cor. of sec. 35, marked on brass cap,

1/4 S35

1917

And raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

66.63 Wash, 30 lks. wide, 1 ft. deep, course S.50° W.

73.93 Road, brs. N.75° E. and S.75° W.

80.16 The cor. of secs. 2, 3, 34 and 35.
Land, rolling.
Soil, sandy and rocky, 4th rate.
No timber.
Undergrowth, cat claw.

J.C.H.

Boundaries of T. 26 N., R. 15 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	N.89° 53' W.	39.87	.08			39.87
	N.89° 58' W.	399.35	.23			399.35
	N.89° 55' W.	40.16	.06			40.16
West Boundary.	North..	480.00	480.00			
North Boundary.	S.89° 58' E.	479.33		.28	479.33	
East Boundary.	S. 0° 3' E.	480.35		480.35	.42	
Convergency.					.52	
Totals.			480.37	480.63	480.27	479.38
				480.37	479.38	
Error in latitude				.26		
Error in departure					.89	

Survey of East half of North Boundary of T. 26 N., R. 15 W. 83

chains.

Survey executed on dates shown on page 243 hereof, by S. Frank Walters, U.S. Transitman, using Buff solar transit No. 9985, hereinbefore described. Recent and repeated tests of this instrument on a meridian established by observation on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

From the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.

S. 89° 58' E., on a true line, bet. secs. 3 and 34. Over mountainous land, through scattering timber and undergrowth.

Asc. 110 ft.

6.43 Spur, slopes N. Desc. 40 ft.

9.93 Asc.

17.73 Spur, slopes N. Desc. 280 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap

1 S34
4 S 3
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

55.00 Wash, 70 lks. wide, course NW. Asc. 210 ft.

66.03 Spur, slopes NW. Desc. 55 ft.

72.27 Ravine, course NW. Asc. 110 ft.

80.00 Set an iron post, 3 ft. long, 2 ins diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T27N R15W
S34 | S35
S 3 | S 2
T26N
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 3rd and 4th rates.

Timber, pin ion pine.

Undergrowth, cactus, scrub oak, cat claw and mountain mahogany.

S. 89° 58' E., on a true line, bet. secs. 2 and 35. Over mountainous land, through scattering timber and undergrowth.

Asc. 660 ft.

27.97 Ridge, brs. NW. and SE. Desc. 170 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1 S35
4 S 2
1916

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

53.45 Ravine, course NW. Asc. 955 ft.

76.30 Limestone bluff, brs. N. and SE. Desc. 40 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 1, 2, 35 and 36, marked on

Chains.

brass cap

T27N	R15W
S35	S36
<hr/>	
S 2	S 1
<hr/>	
T26N	
1916	

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high. W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinion.

Undergrowth, cactus, cat claw, scrub oak and mountain mahogany.

S. 89° 58' E., on a true line, bet. secs. 1 and 36. Over mountainous land, through dense timber and undergrowth. Desc. 260 ft.

32.15
40.00

Gulch, course N. Asc. 115 ft.

Low spur, slopes S. 40° W.

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4	S36
<hr/>	
S 1	
<hr/>	
1916	

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

50.00
64.60
74.60
80.00

Desc. 75 ft.

Gulch, course N. 40° E. Asc. 250 ft.

Desc. 20 ft.

Head of gulch, course N. 20° W. Asc. 60 ft.

Ridge, brs. N. 5° W. and S. 5° E.

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of Ts. 26 and 27 N., Rs. 14 and 15 W., marked on brass cap

T27N		
R15W	R14W	
S36	S31	
<hr/>		
S 1	S 6	
<hr/>		
T26N		
1916		

From which

A pinion pine, 6 ins. diam., brs. N. 26° E., 75 lks. dist., marked T27N R14W S31 BT.

A pinion pine, 6 ins. diam., brs. S. 6 1/2° E., 14 lks. dist., marked T26N R14W S6 BT.

A pinion pine, 7 ins. diam., brs. S. 7° W., 198 lks. dist., marked T26N R15W S1 BT.

A pinion pine, 8 ins. diam., brs. N. 46 1/2° W., 67 lks. dist., marked T27N R15W S36 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pinion and cedar.

Undergrowth, scrub oak and manzanita.

Independent Resurvey of West bdy. of Township 26 North, Range 18 W. 85

Chains.

Resurvey executed on dates shown on page 231 hereof, by H.G. Bardsley, U. S. Surveyor; using Young and Sons' light mountain transit No. 8532, hereinbefore described.

Recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

April 26, 1915,

At 8h. Om. a.m., l.m.t., I set off $35^{\circ} 35\frac{1}{2}'$ N. on the lat. arc; $13^{\circ} 19'$ N. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of Ts. 25 and 26 N., Rs. 18 and 19 W., which is an iron post hereinbefore described.

Thence,

North, bet. secs. 31 and 36.

Over heavily rolling land, thru. scattering undergrowth.

Descend 35 ft. to

- 6.50 Wash, 10 lks. wide, course W.
 10.90 Center of wash, 80 lks. wide, course W. Ascend 95 ft. to
 16.05 Ridge, slopes W. Descend 90 ft. to
 24.40 Wash, 30 lks. wide, course W. Ascend 160 ft. to
 36.45 Ridge, slopes W. Descend 95 ft.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim,
 $\frac{1}{4}$ S 36 in W., and
 S 31 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

- 40.60 Wash, 5 lks. wide, course W. Ascend slightly to
 41.00 Descend 110 ft.
 56.60 Road brs. NE. and SW.
 62.00 Center of wash, 60 lks. wide, course W.
 71.00 Wash, 5 lks. wide, course S. 75° W.
 77.00 Wash, 3 lks. wide, course S. 40° W.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
 T26N in N. half;
 R19W S25 in NW.,
 R18W S30 in NE.,
 S31 in SE., and
 S36 in SW. quadrant;

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, heavily rolling.

Soil, stony, 4th rate.

No timber.

Undergrowth, greasewood and yucca.

North, bet. secs. 25 and 30.

Over rolling land, thru. scattering undergrowth.

- 5.60 Wash, 15 lks. wide, course W.
 9.70 Road, brs. NW. and SE.
 15.00 Wash, 10 lks. wide, course W.
 40.00 Set an iron post, 3 ft long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 25 in W., and
 S30 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

86 Independent Resurvey of the West bdy. of Township, 26 N., R. 18 W.

Chains.

61.50 Center of wash, 75 lks. wide, course W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,

1915 on S. rim;
 T26N in N. half;
 R19W S24 in NW.,
 R18W S19 in NE.,
 S30 in SE., and
 S25 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, level.

Soil, gravel, 3rd rate.

No timber.

Undergrowth, yucca and greasewood.

North, bet. secs. 19 and 24.

Over rolling land, thru. scattering undergrowth.

Descend 20 ft. to

2.30 Wash, 25 lks. wide, course W. Ascend slightly to

8.00 Low ridge, slopes S. 60° W. Descend slightly.25.00 Road hrs. N. 20° E. and S. 20° W.27.50 Wash, 5 lks. wide, course S. 30° W. Ascend 45 ft. to

35.00 Low ridge, slopes E. Descend to

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 S24 in W., and
 S19 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Ascend 55 ft. to

52.00 Descend slightly to

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,

1915 on S. rim;
 T26N in N. half;
 R19W S13 in NW.,
 R18W S18 in NE.,
 S19 in SE., and
 S24 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, gravel, 3rd rate.

No timber.

Undergrowth, greasewood and yucca.

North, bet. secs. 13 and 18.

Over rolling land, thru. scattering undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 S13 in W., and
 S18 in E. half;

dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 12, 13 & 18, marked on brass cap,

Independent Resurvey of the West Boundary of T. 26 N., R. 18 W. 87

Chains.

1915 on S. rim;
 T26N in N. half;
 R19W S12 in NW.,
 R18W S7 in NE.,
 S18 in SE. and
 S13 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., 5 1/8 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, rolling.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.

40.00 North bet. secs. 7 and 12.
 Over rolling land, through scattering undergrowth.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished 1/4 sec. cor., marked on brass
 cap,
 1915 on S. rim;
 1/4 S12 in W. and
 S7 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft.
 high, W. of cor.
 57.80 Wash, 20 lks. wide, course NE.
 66.00 Wash, 15 lks. wide, course E.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished cor. of secs. 1, 6, 7 and 12,
 marked on brass cap,
 1915 on S. rim;
 T26N in N. half;
 R19W S1 in NW.,
 R18W S6 in NE.,
 S7 in SE. and
 S12 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Dig pits, 18 X 18 X 12 ins., in each sec., 5 1/8 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, rolling.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.

3.00 North bet. secs. 1 and 6.
 33.00 Over rolling land, through scattering undergrowth.
 40.00 Asc. 20 ft. to
 Low ridge, slopes NE. Desc. slightly to
 Wash, 10 lks. wide, course NE.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished 1/4 sec. cor., marked on brass
 cap,
 1915 on S. rim;
 1/4 S1 in W. and
 S6 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. Dig pits, 18 X 18 X 12 ins., in each sec., 5 1/8 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Asc. slightly to
 13.00 Ridge, slopes SE. Desc. slightly to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished cor. of T. 26 N., R. 18 W.
 and 19 W., marked on brass cap,
 1915 on S. rim;
 T27N in N. and
 T26N in S. half;

Independent Resurvey of the West Boundary of T. 26 N., R. 18 W.

Chains.

R19W S36 in NW.,
 R18W S31 in NE.,
 S6 in SE. and
 S1 in SW. quadrant;

dig pits, 24 X 24 X 12 ins., on each line, N., E., and
 W., 4 ft., and S. of post, 8 ft. dist.; and raise a
 mound of earth, 5 ft. base, 2½ ft. high, S. of cor.

Land, rolling.

Soil, gravel; 3rd rate.

No timber.

Undergrowth, greasewood and yucca.

Note: Diligent search along this boundary failed to
 reveal any trace of the original corners.

H. G. B.

Apr. 20, 1915.

Independent Resurvey of North bdy. of Township 26 N., R. 18 W.

89

Chains.

Resurvey executed on dates shown on diagram on page 231 hereof, by H. G. Bardsley, U.S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described.

From the cor. of Ts. 26 and 27 N., Rs. 17 and 18 W., which is an iron post, 3 ins. in diam., with brass cap, firmly set, marked and witnessed, as described by the surveyor general, (reestablished in 1912),

West, on a random line, along the north bdy. of Tp. 26 N., R. 18 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 478.88 chs., intersect the west bdy. of T. 26 N., R. 18 W., at the reestablished cor. of Ts. 26 and 27 N., Rs. 18 and 19 W., which is an iron post, established by me, as hereinbefore described.

Thence,

East, on a true line, bet. secs. 6 and 31.
Over rolling land, thru. dense undergrowth.

19.95 Wash, 20 lks. wide, course SE.

30.00 Ascend 45 ft. to

37.90 Low ridge, brs. S. 70° E. Descend.

38.88 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 31 in N., and
S 6 in S. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

42.00 Wash, 5 lks. wide, course S. 70° E. Ascend 40 ft. to

65.00 Low ridge, slopes SE. Descend 65 ft. to

72.00 Wash, 5 lks. wide, course SE. Ascend slightly to

78.88 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 5, 6, 31 and 32, marked on brass cap,

1915 on S. rim;
T27N R18W in N., and
T26N in S. half;
S31 in NW.,
S32 in NE.,
S5 in SE., and
S6 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, stony, 4th rate.

No timber.

Undergrowth, yucca and cacti.

East, on a true line, bet. secs. 5 and 32.

Over rolling land, thru. dense undergrowth.

Descend 285 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 32 in N., and
S 5 in S. rim;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

55.00 Wash, 10 lks. wide, course N. 80° E. Ascend slightly to

90 Independent Resurvey of the North bdy. of Township 26 N. R. 18 W.

Chains.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,

1915 on S. rim;
T27N R18W in N., and
T26N in S. half;
S32 in NW.,
S33 in NE.,
S4 in SE., and
S5 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, stony, 4th rate.

No timber.

Undergrowth, greasewood, yucca and cacti.

East, on a true line, bet. secs. 4 and 33.

Over rolling land, thru. dense undergrowth.

Ascend 35 ft. to

10.00 Ridge, brs. N. 80° E. and S. 80° W. Descend 175 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
S33 in N., and
S4 in S. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

50.00 Ascend slightly to

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 3, 4, 33 and 34, marked on brass cap,

1915 on S. rim;
T27N R18W in N., and
T26N in S. half;
S33 in NW.,
S34 in NE.,
S3 in SE., and
S4 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood and yucca.

East, on a true line, bet. secs. 3 and 34.

Over rolling land, thru. dense undergrowth.

Descend 45 ft. to

26.90 Center of wash, 1 ch. wide, course NE.

36.40 Road brs. NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 34 in N., and
S3 in S. half;

dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high

Independent Resurvey of the North Boundary of T. 26 N., R. 18 W. 91

Chains.	<p>N. of cor. Road, brs. N. and S. 55.35 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the 80.00 ground, for reestablished cor. of secs. 2, 3, 34 and 35, marked on brass cap, 1915 on S. rim; T27N R18W in N. and T26N in S. half; S34 in NW., S35 in NE., S2 in SE. and S3 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, yucca.</p>
40.00	<p>East on a true line, bet. secs. 2 and 35. Over level land, through dense undergrowth, Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished sec. cor. marked on brass cap, 1915 on S. rim; S35 in N. and S2 in S. half; Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p>
41.60	<p>Wash, 10 lks. wide, course N.</p>
80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 1, 2, 35 and 36, marked on brass cap, 1915 on S. rim; T27N R18W in N. and T26N in S. half; S35 in NW., S36 in NE., S1 in SE. and S2 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood and yucca.</p>
10.00	<p>East on a true line, bet. secs. 1 and 36. Over level land, through scattering undergrowth.</p>
33.00	<p>Wash, 10 lks. wide, course N.</p>
40.00	<p>Wash, 40 lks. wide, course N.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished sec. cor. marked on brass cap, 1915 on S. rim; S36 in N. and S1 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.</p>
57.00	<p>Wash, 7 lks. wide, course NE.</p>
73.00	<p>Wash, 5 lks. wide, course N.</p>
80.00	<p>The reestab. cor. of T. 26 and 27 N., Rs. 17 and 18 W. Land, level. Soil, gravel; 3rd rate.</p>

Independent Resurvey of the North Boundary of T. 26 N., R. 18 W.

Chains.

No timber.
Undergrowth, greasewood and yucca.
Note: Diligent search along this boundary failed to reveal any trace of the original corners.

H. G. B.

Boundaries of T. 26 N., R. 18 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South boundary,	S. 89° 58' W.	479.70		.25		479.70
West boundary,	North	480.00	480.00			
North boundary	East.	478.88			478.88	
East boundary,	South.	480.00		480.00		
Convergency.					.52	
Totals.			480.00	480.25	479.40	479.70
				480.00		479.40
Error in latitude.				.25		
Error in departure.					.30	

U. S. Surveyor.

U. S. Transmitter.

Chains. Resurvey executed by H. G. Bardsley, U. S. Surveyor, on dates shown on diagram on page 231 hereof, using Young and Sons' light mountain transit No. 8532 hereinbefore described. Recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment. At 9h. 4m., a.m., l.m.t., I set off $35^{\circ}35'N.$ on the lat. arc; $8^{\circ}50'N.$ on the decl. arc; and determine a meridian with the solar at the reestablished cor. of Ts. 25 and 26 N., Rs. 19 and 20 W., which is an iron post hereinbefore described.

Thence,
 North, bet. secs. 31 and 36.
 Over level land, thru scattering undergrowth.
 15.00 Wash, 10 lks. wide, course W.
 17.00 Wash, 10 lks. wide, course W.
 20.00 Wash, 4 lks. wide, course W.
 21.00 Wash, 20 lks. wide, course W.
 26.00 Wash, 20 lks. wide, course W.
 36.00 Wash, 10 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 36 in W., and
 S31 in E. half;

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 42.00 Wash, 15 lks. wide, course W.
 69.00 Wash, 10 lks. wide, course W.
 70.20 Wash, 5 lks. wide, course W.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
 T26N in N. half;
 R20W S25 in NW.;
 R19W S30 in NE.,
 S31 in SE., and
 S36 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, level.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood.

 North, bet. secs. 25 and 30.
 Over rolling land, thru scattering undergrowth.
 1.00 Wash, 20 lks. wide, course S. $80^{\circ}W.$
 5.50 Wash, 50 lks. wide, course S. $15^{\circ}W.$
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S25 in W., and
 S30 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 47.50 Center of wash, 95 lks. wide, course S. $75^{\circ}W.$ Ascend 65 ft. to
 63.95 Ridge, bns. NW. and SE. Descend 25 ft. to
 75.40 Wash, 6 lks. wide, course S. $30^{\circ}E.$
 79.10 Wash, 20 lks. wide, course S. $20^{\circ}E.$
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam.; 24 ins. in the ground, for reestablished cor. of secs. 19, 24, 25 and 30, marked on brass cap,

94 Independent Resurvey of the West bdy. of Township 26 N., R. 19 W.

Chains.

1915 on S. rim;
 T26N in N. half;
 R20W S24 in NW.,
 R19W S19 in NE.,
 S30 in SE., and
 S25 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
 Soil, stony, 4th rate.
 No timber.
 Greasewood, undergrowth.

North, bet. secs. 19 and 24.
 Over heavily rolling land, thru. scattering undergrowth.
 Ascend 40 ft. to

- 8.00 Descend 25 ft. to
 10.70 Wash, 5 lks. wide, course S. 30° E. Ascend 145 ft. to
 23.00 Ridge, slopes SE. Descend to
 31.15 Wash, 10 lks. wide, course E.
 35.60 Wash, 10 lks. wide, course E. Ascend 50 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam. 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor.; marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S24 in W., and
 S19 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

- 42.37 Ridge, slopes E. Descend 110 ft. to
 49.75 Wash, 4 lks. wide, course E.
 54.75 Wash, 10 lks. wide, course E. Ascend 70 ft. to
 77.10 Descend 30 ft. to
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,

1915 on S. rim;
 T26N in N.,
 R20W S13 in NW.,
 R19W S18 in NE.,
 S19 in SE., and
 S24 in SW. quadrant;

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, heavily rolling.
 Soil, stony, 4th rate.
 No timber.
 Undergrowth, greasewood.

North, bet. secs. 13 and 18.
 Over heavily rolling land, thru. scattering undergrowth.

- .50 Wash, 5 lks. wide, course E.
 5.00 Wash, 10 lks. wide, course S. 40° E.
 14.00 Wash, 10 lks. wide, course E.
 15.30 Wash, 5 lks. wide, course S. 15° E.
 24.00 Wash, 5 lks. wide, course S. 15° E.
 30.00 Wash 5 lks. wide, course S. 15° W. Ascend 160 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;

Independent Resurvey of the West Boundary of T. 26 N., R. 19 W. 39.95

Chains.

1/4 S13 in W. and
 S18 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. This impracticable.
 44.40 Ridge, slopes N.10° E. Desc. 100 ft. to
 58.90 Wash, 5 lks. wide, course W.
 59.90 Wash, 10 lks. wide, course S.30° W. Asc. 160 ft. to
 65.80 Ridge, slopes E. Desc. to
 69.30 Wash, 5 lks. wide, course E. Asc. 55 ft. to
 76.00 Ridge, slopes N.30° E. Desc. 85 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for reestablished cor. of secs. 7, 12, 13 and 18,
 marked on brass cap,
 1915 on S. rim;
 T26N in N. half;
 R20W S12 in NW.,
 R19W S7 in NE.,
 S18 in SE. and
 S13 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. This impracticable.
 Land, heavily rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

North bet. secs. 7 and 12.
 Over mountainous and rolling land, through scattering
 undergrowth.
 Desc. 145 ft. to
 6.60 Wash, 5 lks. wide, course E. Asc. slightly to
 15.00 Desc. 220 ft. to
 25.60 Wash, 10 lks. wide, course E. Asc. 55 ft. to
 34.07 Desc. to
 36.60 Wash, 10 lks. wide, course S.40° W. Asc. 175 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for reestablished 1/4 sec. cor., marked on brass
 cap,
 1915 on S. rim;
 1/4 S12 in W. and
 S7 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. This impracticable.
 43.15 Ridge, brs. E. and W. Desc. 285 ft. to
 51.60 Wash, 20 lks. wide, course W. Asc. 285 ft. to
 68.60 Ridge, slopes S.30° W. Desc. slightly to
 72.60 Wash, 3 lks. wide, course E. Asc. 100 ft. to
 80.00 Ridge, slopes E.
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 1, 6, 7 and 12, marked on
 brass cap reestablished
 1915 on S. rim;
 T26N in N. half;
 R20W S1 in NW.,
 R19W S6 in NE.,
 S7 in SE. and
 S12 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 W. of cor. This impracticable.
 Land, rolling and mountainous.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

North bet. secs. 1 and 6.
 Over mountainous land, through scattering undergrowth.
 Desc. to

Independent Resurvey of the West Boundary of T. 26 N., R. 19 W.

<p>Chains. 1.00 4.00 5.00 40.00 50.00 80.00</p>	<p>Wash, 2 lks. wide, course E. Asc. to Ridge, slopes E. Desc. 15 ft. to Wash, 5 lks. wide, course S.40° E. Asc. 345 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablish sec. cor., marked on brass cap 1915 on S. rim; 1S1 in W. and S6 in E. half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Dist. impracticable.</p> <p>Ridge, slopes N.15° E. Desc. 320 ft. to Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablish cor. of Tps. 26 and 27 N., Rs. 19 and 20 W., marked on brass cap 1915 on S. rim; T27N in N. and T26N in S. half; R20W S36 in NW., R19W S31 in NE., S6 in SE. and S1 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Dist. impracticable.</p> <p>Land, mountainous. Soil, stony; 4th rate. No timber. Undergrowth; greasewood. Note: Diligent search along this boundary failed to reveal any trace of the original corners. H. C. B.</p>
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Independent Resurvey of North bdy. of Township 26 N., R. 19 W.

Chains. Resurvey executed by H.G. Bardsley,
 U.S. Surveyor, on dates shown on diagram on page 231
 hereof, using Young and Sons' light mountain transit
 No. 8532, hereinbefore described.
 Recent and repeated tests of instrument on a meridian es-
 tablished by observations on Polaris at elongation
 demonstrate that it is in satisfactory adjustment.
 From the reestablished cor. of Ts. 26 and 27 N., Rs. 18 and 19
 W., hereinbefore described,
 West, on a random line, along N. bdy. of T. 26 N., R. 19 W.,
 setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00
 chs.; and at 478.53 chs., intersect W. bdy. of T. 26 N.,
 R. 19 W., 72 lks. S. of the reestablished cor. of Ts. 26
 and 27 N., Rs. 19 and 20 W., which is an iron post here-
 inbefore described. The falling answers to a correc-
 tion of 0°5' or .12 lks. N. per mile, counting from the
 NE. cor. of the Tp.

S. 89°55'E., on a true line, bet. secs. 6 and 31.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 235 ft. to
 6.58 Ridge, slopes N. Descend 210 ft. to
 19.68 Wash, 3 lks. wide, course N. Ascend 40 ft. to
 25.18 Ridge, slopes N. Descend 120 ft. to
 37.98 Wash, 20 lks. wide, course N. Ascend 305 ft.
 38.53 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S31 in N., and
 S 6 in S. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.
 of cor. Pits impracticable.

70.53 Descend slightly to
 71.28 Gulch, 15 lks. wide, course N. 60°W. Ascend 120 ft. to
 78.53 Set an iron post 3 ft. long, 3 ins. in diam., on solid rock,
 in a mound of stone, for reestablished cor. of secs. 5, 6, 31 and 32,
 marked on brass cap,

1915 on S. rim;
 T27N R19W in N., and
 T26N in S. half;
 S31 in NW.,
 S32 in NE.,
 S5 in SE., and
 S6 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.

Land, mountainous.
 Soil, stony, 4th rate.
 No timber.
 Undergrowth, greasewood and yucca.

S. 89°55'E., on a true line, bet. secs. 5 and 32.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 420 ft., over broken rock to
 13.70 Descend 300 ft. to
 35.20 Gulch, 10 lks. wide, course S. 15° E. Ascend 35 ft. to
 37.10 Ridge, slopes S. Descend 65 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for reestablished $\frac{1}{4}$ sec. cor., marked on brass
 cap,

1915 on S. rim;
 $\frac{1}{4}$ S32 in N., and
 S5 in S. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,

98 Independent Resurvey of North bdy. of Township 26 North, Range 19 W.

Chains.

N. of cor.
 42.20 Gulch, 15 lks. wide, course S. Ascend 390 ft. to
 60.10 Ridge, brs. N. and S. Descend 360 ft. to
 72.50 Gulch, 5 lks. wide, course S. 60° E. Ascend 15 ft. to
 75.00 Descend 25 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for reestablished cor. of secs. 4, 5, 32
 and 33, marked on brass cap,

1915 on S. rim;
 T27N R19W in N., and
 T26N in S. half;
 S32 in NW.,
 S33 in NE.,
 S4 in SE., and
 S5 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W.
 of cor.
 Land, mountainous.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood and yucca.

s. 89° 55' E., on a true line, bet. secs. 4 and 33.
 Over rolling land, thru. scattering undergrowth.
 Descend 395 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for reestablished ¼ sec. cor., marked on
 brass cap,

1915 on S. rim;
 ¼ S 33 in N., and
 S4 in S. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 48.25 Wash, 30 lks. wide, course N.
 51.25 Wash, 6 lks. wide, course N. 60° W.
 55.25 Wash, 3 lks. wide, course N. Ascend 135 ft. to
 73.10 Ridge, slopes N. 60° W. Descend 75 ft. to
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins.
 in the ground, for reestablished cor. of secs. 3, 4,
 33 and 34, marked on brass cap,

1915 on S. rim;
 T27N R19W in N., and
 T26N in S. half;
 S33 in NW.,
 S34 in NE.,
 S3 in SE., and
 S4 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1½ ft. high, W.
 of cor.
 Land, rolling.
 Soil, stony, 4th rate.
 No timber.
 Undergrowth, greasewood and yucca.

Independent Resurvey of the North Boundary of T. 26 N., R. 19 W. 99

Chains.

S.89° 55' E., on a true line, bet. secs. 3 and 34.
 Over rolling land, through scattering undergrowth.
 Desc. to
 4.35 Wash, 20 lks. wide, course NW. Asc. 140 ft. to
 20.10 Ridge, brs. N.10° E., and S.10° W. Desc. 65 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
~~ground for reestab.~~ ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S34 in N. and
 S3 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Asc. slightly to
 41.35 Desc. 35 ft. to
 50.00 Wash, 20 lks. wide, course N.10° W. Asc. 30 ft. to
 60.00 Desc. slightly to
 62.00 Wash, 10 lks. wide, course SW. Asc. 50 ft. to
 68.50 Desc. to
 70.00 Wash, 10 lks. wide, course N.10° W. Asc. 40 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
~~ground for reestab.~~ cor. of secs. 2, 3, 34 and 35, marked on
 brass cap
 1915 on S. rim;
 T27N R19W in N. and
 T26N in S. half;
 S34 in NW.,
 S35 in NE.,
 S2 in SE. and
 S3 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood and yucca.

S.89° 55' E., on a true line, bet. secs. 2 and 35.
 Over rolling land, through scattering undergrowth.
 Asc. 20 ft. to
 2.60 Desc. to
 7.10 Wash, 5 lks. wide, course NW. Asc. 30 ft. to
 11.60 Ridge, slopes NW. Desc. slightly to
 15.10 Wash, 5 lks. wide, course N.75° W. Asc. 65 ft. to
 36.00 Ridge, brs. NE. and SW. Desc. 120 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
~~ground for reestab.~~ ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S35 in N. and
 S2 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 54.00 Wash, 10 lks. wide, course SE.
 70.00 Wash, 15 lks. wide, course SE.
 76.50 Wash, 15 lks. wide, course S.50° E.
 78.50 Wash, 5 lks. wide, course S.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
~~ground for reestab.~~ cor. of secs. 1, 2, 35 and 36, marked on
 brass cap
 1915 on S. rim;
 T27N R19W in E. and
 T26N in S. half;
 S35 in NW.,
 S36 in NE.,
 S1 in SE. and
 S2 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, gravel; 3rd rate.
 No timber. Undergrowth, greasewood and yucca.

Independent Resurvey of the North Boundary of T. 26 N., R. 19 W.

Chains.

S. 89° 55' E., on a true line, bet. secs. 1 and 36.
 Over rolling land, through scattering undergrowth.
 Asc. 30 ft. to
 3.35 Ridge, slopes S. Desc. 30 ft. to
 5.85 Wash, 5 lks. wide, course S. Asc. 135 ft. to
 16.65 Ridge, slopes S. Desc. 145 ft. to
 25.30 Wash, 10 lks. wide, course S. Asc. 70 ft. to
 29.20 Ridge, slopes S. Desc. 105 ft. to
 37.00 Wash, 10 lks. wide, course SE. Asc. 70 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground,
 for reestablished 1/4 sec. cor., marked on brass cap
 1915 on S. rim;
 1/2 S 36 in N. and
 S 1 in S. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
 N. of cor. Disc impracticable:
 42.25 Ridge, slopes S. Desc. 65 ft. to
 56.75 Wash, 10 lks. wide, course S. 10° E. Asc. 80 ft. to
 65.15 Ridge, brs. N. and S. Desc. 90 ft. to
 75.00 Wash, 5 lks. wide, course S. Asc. 20 ft. to
 77.50 Ridge, slopes S. Desc. 30 ft. to
 80.00 The reestab. cor. of Tps. 26 and 27 N., Rs. 18 and 19 W.
 Land, rolling.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.
 Note: Diligent search along this boundary failed to reveal
 any trace of the original corners.
 H. G. B.

Boundaries of T. 26 N., R. 19 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	S. chs.	W. chs.
South boundary.	N 89° 57' W.	479.11	.43			479.11
West boundary	North.	480.00	480.00			
North boundary	S 89° 55' E.	478.53		.72	478.53	
East boundary	South.	480.00		480.00		
Convergency					.52	
Totals.			480.43	480.72	479.05	479.11
				480.43		479.05
Error in latitude.				.29		
Error in departure.						.06

Survey of West boundary of Township 26 North, Range 20 West. 101

Chains.

Survey executed on dates shown on diagram on page 231 hereof, by H. G. Bardsley, U.S. Surveyor, using Young and Sohs' light mountain transit No. 8532, hereinbefore described.

Recent and repeated tests of the instrument on a meridian established on observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

At 9h. Om., a.m., l.m.t., I set off $5^{\circ} 6' S.$, on the decl. arc; $35^{\circ} 35' N.$ on the lat. arc; and determine a meridian with the solar at the reestablished cor. of Ts. 25 and 26 N., Rs. 20 and 21 W., hereinbefore described.

Thence,

North, bet. secs. 31 and 36.

Over rolling land, thru scattering undergrowth.

Ascend 125 ft. to

4.20 Descend to

6.10 Wash, 15 lks. wide, course E. Two inch pipe line, brs. NE. and SW.

8.05 Road brs. E. and W.

12.45 Road brs. E. and W.

18.93 Road brs. E. and W. Ascend 30 ft. to

23.40 Descend 40 ft. to

28.87 Wash, 20 lks. wide, course E. Ascend 120 ft. to

36.00 Ridge, brs. E. and W. Descend 110 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap,

1915 on S. rim;
S36 in W., and
S31 in E. half;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Ascend 90 ft. to

44.00 Descend 55 ft. to

49.65 Ascend 45 ft. to

52.60 Descend 240 ft.

76.40 Road brs. E. and W.

77.40 Road brs. E. and W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
T26N in N. half;
R21W S25 in NW.,
R20W S30 in NE.,
S31 in SE., and
S36 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, gravelly and stone; 3rd rate.

No timber.

Undergrowth, greasewood.

From this cor., gallows frame on shaft brs. N. $32^{\circ} 27' W.$

North, bet. secs. 25 and 30.

Over rolling and mountainous land, thru scattering undergrowth.

Descend 25 ft.

6.78 Road brs. E. and W.

9.28 Center of wash, 2 chs. wide, course E. Ascend slightly to

13.00 Descend 75 ft.

23.69 Road brs. E. and W.

27.16 Center of wash, 1 ch. wide, course E. Ascend 30 ft. to

31.70 Descend 20 ft. to

102 Survey of West bdy. of Township 26 North, Range 20 West.

Chains.	
35.00	Ascend 50 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	1915 on S. rim; $\frac{1}{4}$ S 25 in W., and S30 in E. half;
	and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	From this cor., gallows frame on shaft brs. S. 3° 36' W.
	Ascend 145 ft. to
52.80	Descend 145 ft.
67.65	Wash, 10 lks. wide, course SE. Ascend 165 ft. to
74.00	Descend slightly to
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,
	1915 on S. rim; T26N in N. half; R21W S24 in NW., R20W S19 in NE., S30 in SE., and S25 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling and mountainous. Soil, stony, 4th rate. No timber. Undergrowth, greasewood.

	North, between secs. 19 and 24. Over mountainous land, thru. scattering undergrowth.
	Ascend 115 ft. to
5.48	Ridge, brs. NE and SW. Descend over cliffs, 520 ft. to
21.28	Gulch, 50 lks. wide, course E. Ascend 85 ft. to
27.45	Descend 250 ft.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	1915 on S. rim; $\frac{1}{4}$ S 24 in W., and S19 in E. half;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
65.00	Foot of descent, brs. E. and W. Thence over rolling land.
66.45	Road brs. NW. and SE.
72.45	Wash, 15 lks. wide, course E.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,
	1915 on S. rim; T26N in N. half; R21W S13 in NW., R20W S18 in NE., S19 in SE., and S24 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling and mountainous. Soil, gravelly, 3rd rate. No timber. Undergrowth, greasewood and cacti.

	North, bet. secs. 13 and 18. Over level land, thru. scattering undergrowth.

Survey of West Boundary of T. 26 N., R. 20 W.

15.

103

Chains.	
14.60	Wash, 15 lks. wide, course E.
15.10	Wash, 30 lks. wide, course E.
30.40	Wash, 20 lks. wide, course E.
37.90	Wash, 15 lks. wide, course E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S13 in W. and S18 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
62.30	Wash, 12 lks. wide, course E.
63.80	Wash, 20 lks. wide, course E.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass cap 1915 on S. rim; T26N in N. half; R21W S12 in NW., R20W S7 in NE., S18 in SE. and S13 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, level. Soil, gravelly; 3rd rate. No timber. Undergrowth, greasewood and cacti.
	Apr. 2, 1915: At 9 hrs. 0 m., a.m., l.m.t., I set off 35° 39' N. on the lat. arc; 4° 42' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18. Thence I North bet. secs. 7 and 12. Over gently rolling land, through scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S12 in W. and S7 in E. half; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
62.00	Wash, 20 lks. wide, course NE.
69.20	Road, brs. NW. and SE.
71.00	Wash, 20 lks. wide, course NE.
74.40	Wash, 30 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap 1915 on S. rim; T26N in N. half; R21W S1 in NW., R20W S6 in NE., S7 in SE. and S12 in SW. quadrant; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, gently rolling. Soil, gravel and stone; 3rd rate. No timber. Undergrowth, greasewood.

104. Survey of West Boundary of T. 26 N., R. 20 W.

chains.

North bet. secs. 1 and 6.
 Over level land, through scattering undergrowth.
 14.20 Old road, brs. E. and W.
 22.60 Wash, 10 lks. wide, course E.
 33.80 Wash, 15 lks. wide, course E.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 1S1 in W. and
 S6 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
 high, W. of cor.
 51.60 Wash, 15 lks. wide, course E.
 63.40 Wash, 15 lks. wide, course E.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of Tps. 26 and 27 N., Rs. 20 and 21
 W., marked on brass cap
 1915 on S. rim;
 T27N in N. and
 T26N in S. half;
 R21W S36 in NW.,
 R20W S31 in NE.,
 S6 in SE. and
 S1 in SW. quadrant;
 dig pits, 24 X 24 X 12 ins., on each line, N., E., and
 W., 4 ft., and S. of post, 8 ft. dist.; and raise a
 mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
 Land, level.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood.

H. G. B.
 Apr. 2, 1915.

Chains.

Survey executed on dates shown on diagram on page 231 hereof, by H. G. Bardsley, U.S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described.
Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.
From the cor. of Ts. 26 and 27 N., Rs. 20 and 21 W., hereinbefore described,

West, on a random line, along the N. bdy. of T. 26 N., R. 20 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 479.38 chs., intersect the W. bdy. of Tp. 26 N., R. 20 W., 84 lks. S. of the cor. of Ts. 26 and 27 N., Rs. 20 and 21 W., which is an iron post, hereinbefore described. The falling answers to a correction of $0^{\circ}06'$, or 14 lks. N. per mile, counting from the NE. cor. of the Tp.

S. $89^{\circ}54'E.$, on a true line, bet. secs. 6 and 31.
Over level land, thru scattering undergrowth.

36.88 Wash, 50 lks. wide, course N.

39.38 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 31 in N., and
S6 in S. half;

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

51.88 Road brs. NW. and SE.

64.38 Center of Sacramento Wash, 1.50 chs. wide, course NW.

79.38 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

1915 on S. rim;
T27N R20W in N., and
T26N in S. half;
S31 in NW.,
S32 in NE.,
S5 in SE., and
S6 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, 2nd rate.

No timber.

Undergrowth, greasewood.

S. $89^{\circ}54'E.$, on a true line, bet. secs. 5 and 32.
Over level land, thru scattering undergrowth.

38.30 Wash, 15 lks. wide, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
 $\frac{1}{4}$ S 32 in N., and
S5 in S. half;

dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

42.80 Wash, 50 lks. wide, course SW.

51.80 Wash, 25 lks. wide, course SW.

63.10 Wash, 25 lks. wide, course SW.

73.50 Wash, 30 lks. wide, course SW.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

1915 on S. rim,
T27N R20W in N., and

106 Survey of North bdy of Township 26 North Range 20 West.

Chains.

T26N in S. half;
 S32 in NW.
 S33 in NE.,
 S4 in SE., and
 S5 in SW. quadrant;

dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, 2nd rate.
 No timber. Undergrowth, greasewood brush.

S. 89°54'E., on a true line, bet. secs. 4 and 33.
 Over level land, thru. scattering undergrowth.

15.50 Wash, 5 lks. wide, course S. 40°W.
 21.40 Wash, 20 lks. wide, course S. 60°W.
 35.00 Wash, 10 lks. wide, course S. 75°W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S. rim;
 S33 in NE., and
 S4 in S. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.
 of cor.

44.70 Road brs. N. and S.
 47.70 Wash, 10 lks. wide, course S. 60°W.
 49.00 Center of wash, 95 lks. wide, course S. 75°W.
 77.03 Telephone line, brs. N. and S.
 77.83 Road brs. N. and S.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 3, 4, 33 and 34, marked on
 brass cap,
 1915 on S. rim;
 T27N R20W in N., and
 T26N in S. half;
 S33 in NW.,
 S34 in NE.,
 S3 in SE., and
 S4 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of
 cor.

Land, level.
 Soil, stone and gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood and yucca.

S. 89°54'E., on a true line, bet. secs. 3 and 34.
 Over rolling land, thru. scattering undergrowth.

13.90 Enter wash, course S. 75°W.,
 14.75 Telephone line, brs. N. 10°45'E. and S. 10°45'W.
 15.90 Leave wash, course S. 75°W. Ascend to
 23.25 Ridge, slopes N. 50°W. Descend slightly to
 27.35 Enter wash, course N. 40°W.
 31.40 Leave wash, course N. 40°W. Ascend 290 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 1915 on S. rim;
 S34 in N., and
 S3 in S. half;

and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of
 cor.

57.20 Descend 100 ft. to
 63.45 Wash, 5 lks. wide, course S. Ascend 95 ft. to
 71.70 Descend 235 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the
 ground, for cor. of secs. 2, 3, 34 and 35, marked on brass
 cap,

Chains.

1915 on S. rim;
 T27N R20W in N. and
 T26N in S. half;
 S34 in NW.,
 S35 in NE.,
 S2 in SE. and
 S3 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. *Pite*
 Land, rolling and mountainous.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

S.89° 54' E., on a true line, bet. secs. 2 and 35.
 Over mountainous land, through scattering undergrowth.
 Asc. to
 5.70 Desc. slightly to
 7.75 Gulch, 5 lks. wide, course S. Asc. 380 ft. to
 35.00 Ridge, brs. W. and S.45° E. Thence along N. slope to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 S35 in N. and
 S2 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. *Pite*
 Desc. 210 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 2, 1, 35 and 36, marked on
 brass cap
 1915 on S. rim;
 T27N R20W in N. and
 T26N in S. half;
 S35 in NW.,
 S36 in NE.,
 S1 in SE. and
 S2 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor. *Pite*
 Land, mountainous.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

S.89° 54' E., on a true line, bet. secs. 1 and 36.
 Over mountainous land, through scattering undergrowth.
 1.80 Wash, 15 lks. wide, course N.
 8.00 Wash, 30 lks. wide, course N. 75° W. Asc. 475 ft. to
 34.00 Ridge, slopes N. Desc. 300 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 S36 in N. and
 S1 in S. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor. *Pite*
 54.20 Enter wash, course N.10° W.
 56.20 Leave wash, course N.10° W. Asc. 85 ft. to
 64.10 Desc. 35 ft. to
 66.00 Wash, 10 lks. wide, course N.15° W. Asc. 245 ft. to
 80.00 The cor. of Tps. 26 and 27 N., Rs. 19 and 20 W..
 Land, mountainous.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

1080. Survey of North Boundary of T. 26 N., R. 20 W.

Chains.

H. G. B.
Nov. 30, 1915

Boundaries of T. 26 N., R. 20 W.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South boundary	S. 89° 59' W.	479.40		.14		479.40
West boundary	North.	480.00	480.00			
North boundary	S. 89° 54' E.	479.38		.84	479.38	
East boundary	South.	480.00		480.00		
Convergency.					.52	
Totals.			480.00	480.98	479.90	479.40
				480.00	479.40	
Error in latitude.				.98		
Error in departure.					.50	

J. W. [unclear]

Survey of S. $\frac{1}{4}$ of W. bdy. of Township 26 North, Range 21 West.

Chains.

Survey executed on dates shown on diagrams on pages 231 and 237 hereof, by H.G. Bardsley, U.S. Surveyor and Royston C. Durnford, U.S. Transitman, using, respectively, Young and Sons' light mountain transits Nos. 8532 and 8526, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation demonstrate that they are in satisfactory adjustment.

Initials "H.G.B." and "R.C.D." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by H.G. Bardsley, U.S. Surveyor and Royston C. Durnford, U.S. Transitman.

H.G.B. April 7, 1915.

At 8h. 0m., a.m., l.m.t., I set off 35° 35' N. on the lat. arc; 6° 36' N. on the decl. arc; and determine a meridian with the solar at the cor. of Ts. 25 and 26 N., Rs. 21 and 22 W., which is an iron post, hereinbefore described.

Thence,

North, bet. secs. 31 and 36.

Over mountainous land, thru. scattering undergrowth.

Descend 25 ft. to

- 3.95 Wash, 30 lks. wide, course W. Ascend 50 ft. to
- 9.90 Rock hill, slopes W. Descend 45 ft. to
- 16.85 Wash, 10 lks. wide, course W. Ascend 15 ft. to
- 19.85 Ridge, brs. E. and W. Descend 45 ft. to
- 23.85 Wash, 10 lks. wide, course W. Ascend 110 ft. to
- 31.00 Spur, slopes W. Descend 45 ft. to
- 33.60 Wash, 10 lks. wide, course W. Ascend slightly to
- 36.55 Ridge, slopes NW. Descend.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
S36 in W., and
S31 in E. half;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

- 40.50 Enter wash, course NW.
- 45.00 Leave wash, course NW. Ascend 60 ft. to
- 47.85 Hill, slopes W. Descend 140 ft. to
- 57.60 Wash, 10 lks. wide, course W. Ascend 70 ft. to
- 63.25 Ridge, slopes SW. Descend 15 ft. to
- 65.70 Wash, course SW. Ascend 25 ft. to
- 69.70 Ridge, brs. S. 10° W. and N. 10° E. Descend 45 ft. to
- 77.20 Wash, 10 lks. wide, course W. Ascend to
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

1915 on S. rim;
T26N in N. half;
R22W S25 in NW.,
R21W S30 in NE.,
S31 in SE., and
S36 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, greasewood.

H. G. B.

R.C.D.

April 8, 1915. At 9h. 30m., a.m., l.m.t., I set off 35° 36' N. on the lat. arc; 6° 59' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 30, 31 and 36.

Thence,

North, bet. secs. 25 and 30.

Over mountainous land, thru. scattering undergrowth.

Ascend 85 ft. to

Chains.	
19.90	Descend 75 ft. to
26.30	Gulch, course W. Ascend 105 ft. to
30.50	Top of butte; descend 65 ft. to
39.40	Ascend 15 ft. to
40.00	Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	1915 on S. rim; S25 in W., and S30 in E. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Descend 80 ft. to
46.70	Ascend 80 ft. to
57.80	Descend 70 ft. to
64.70	Ascend 15 ft. to
67.70	Descend 35 ft. to
77.00	Gulch, course W. Ascend 75 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,
	1915 on S. rim T26N in N. half; R22W S24 in NW., R21W S19 in NE., S30 in SE., and S25 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, rolling mountains and low hills. Soil, stony, 4th rate. No timber. Undergrowth, greasewood.

	North, bet. secs. 19 and 24. Over broken, mountainous land, thru scattering undergrowth.
	Ascend to
.50	Low ridge, brs. E. and W. Descend 75 ft. to
4.85	Ascend 30 ft. to
7.80	Descend 40 ft. to
9.70	Ascend 55 ft. to
13.40	Descend 70 ft. to
18.70	Gulch, course W. Ascend 75 ft. to
22.15	Descend 45 ft. to
29.30	Ascend 80 ft. to
36.40	Low ridge, brd. E. and W. Descend 60 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	1915 on S. rim; S24 in W., and S19 in E. half;
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Ascend 30 ft. to
44.00	Descend 55 ft. to
49.90	Ascend 30 ft. to
52.15	Descend 15 ft. to
54.85	Ascend 110 ft. to
64.70	Descend 40 ft. to
69.65	Ascend 50 ft. to
73.60	Descend 75 ft. to

Chains.

79.50
80.00

Gulch, course W. Asc. to
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

1915 on S. rim;
T26N in N. half;
R22W S13 in NW.,
R21W S18 in NE.,
S19 in SE. and
S24 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Five in. diameter.

Land, broken, mountainous.

Soil, stony; 4th rate.

No timber.

Undergrowth, greasewood.

R. C. D.

Apr. 1, 1915.

112 Survey of part of North Boundary of T. 26 N., R. 21 W.

Chains.	
	<p>Survey, executed on dates shown on diagram on page 231 here- of, by H. G. Bardsley, U.S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described. From the cor. of T. 26 & 27 N., R. 20 & 21 W., hereinbefore described, S. 89° 58' W., on a true line, bet. secs. 1 and 36. Over level land, through scattering undergrowth.</p>
3.00	Old road, brs. NE. and SW.
11.20	Road, brs. NE. and SW.
28.05	Wash, 15 lks. wide, course NE.
32.10	Wash, 10 lks. wide, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S36 in N. and S1 in S. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Site impracticable.
47.00	Wash, 20 lks. wide, course NE.
73.70	Road, brs. NW. and SE.
77.05	Wash, 15 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap 1915 on S. rim; T27N R21W in N. and T26N in S. half; S35 in NW., S36 in NE., S1 in SE. and S2 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Site impracticable.
	<p>Land, level. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood and cacti. Apr. 27, 1915: At this cor., I set a T.P. of 25' from the post, and set a second post, 100' from the first, on the meridian; the resulting angle is 55° 41' 1".</p>
26.70	S. 89° 58' W., on a true line, bet. secs. 2 and 35. Over level land, through scattering undergrowth.
40.00	Wash, 30 lks. wide, course NE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1915 on S. rim; $\frac{1}{4}$ S35 in N. and S2 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
48.70	Wash, 10 lks. wide, course NE.
60.60	Wash, 10 lks. wide, course NE.
65.75	Center of wash, 1 ch. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap 1915 on S. rim; T27N R21W in N. and T26N in S. half; S34 in NW., S35 in NE., S2 in SE. and S3 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	<p>Land, level. Soil, gravel; 3rd rate. No timber.</p>

Survey of part of North Boundary of T. 20 N., R. 21 W.

Chains.

Undergrowth, greasewood and cacti.

11.70
24.80
40.00

S.89° 58' W., on a true line, bet. secs. 3 and 34.
Over slightly rolling land, through scattering undergrowth.
Center of wash, 60 lks. wide, course NE.
Old road, brs. NE. and SW.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim
1/4 S34 in N. and
S3 in S. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

55.00
55.74
80.00

Asc. 35 ft. to
Desc. to
Wash, 15 lks. wide, course NE. Asc. 485 ft. to
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 3, 4, 33 and 34, marked on brass cap
1915 on S. rim;
T27N R21W in N. and
T26N in S. half;
S33 in NW.,
S34 in NE.,
S3 in SE. and
S4 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rolling and mountainous.
Soil, stony; 4th rate.
No timber.

Undergrowth, greasewood and cacti.
From this cor., U. S. L. M. No. 1101, Minnesota District which is a 6 X 6 in. timber, set in a mound of stone, marked U. S. L. M. 1103 on N. face, brs. S.81° 31' W., 11.83 chs. dist.

7.35
9.70
11.65
20.83

S.89° 58' W., on a true line, bet. secs. 4 and 33.
Over mountainous land, through scattering undergrowth.
Asc. 75 ft. to
Ridge, brs. N. and S. Desc. 60 ft. to
Asc. 45 ft. to
Desc. 320 ft.
Intersect line 6-7, Little Daisy Claim, at a point from which cor. No. 7, which is a post, 4 ins. square, 1 1/2 ft. above ground, marked 7/1103, brs. S.4° 8' E., 1.02 chs. dist.

28.65
30.75
40.00

Thence across Little Daisy and Mariposa Claims.
Foot of desc. Asc. 200 ft.
Road, brs. NE. and SW.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S33 in N. and
S4 in S. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

50.75
54.65
61.90
61.99

Ridge, brs. N. and S. Desc. 60 ft. to
Wash, 20 lks. wide, course NE. Asc. 125 ft. to
Ridge, brs. N. and S. Desc. 35 ft.
Intersect line 2-3, Mariposa Claim, at a point from which cor. No. 3, which is a post, 4 ins. square, 1 1/2 ft. above ground, marked 3/1103, with mound of stone, brs. N.5° 8' W., 2.92 chs. dist.

64.30
80.00

Wash, 10 lks. wide, course NE. Asc. 95 ft. to
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the

114 Survey of part of North Boundary of T. 26 N., R. 21 W.

Chains.

ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap

- 1915 on S. rim;
- T27N R21W in N. and
- T26N in S. half;
- S32 in NW.;
- S33 in NE.;
- S4 in SE. and
- S5 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. ~~in immediate~~

Land, mountainous.
Soil, stony; 4th rate.
No timber.
Undergrowth, greasewood.

H. G. B.
Jan. 2, 1875

Boundaries of that portion of T. 26 N., R. 21 W. surveyed under this Group: closing errors. Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South boundary,	S. 89° 58' W.	479.50		.28		479.50
West boundary,	North.	240.00	240.00			
Subdivisional.	East.	79.25			79.25	
boundary. 20.	N. 89° 50' E.	79.90	.23		79.90	
at sec. 3.	N. 0° 2' W.	160.00	160.00			.09
at sec. 4.	N. 0° 4' W.	79.70	79.70			.09
North boundary,	N. 89° 58' E.	320.00	.19		320.00	
East boundary,	South.	480.00		480.00		
Convergency.					.43	
Totals.			480.12	480.28	479.58	479.68
				480.12		479.58
Error in latitude				.16		
Error in departure						.10

J. H. Carpenter.

J. H. Carpenter.

Survey of Part of the West Boundary of T. 27 N., R. 14 W.

Chains.

Survey executed on dates shown on page 243 hereof, by S. Frank Walters, U.S. Transitman, using a Buff solar transit No. 9985, hereinbefore described.

Showing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation demonstrate that it is in satisfactory adjustment.

From the cor. of Ts. 26 and 27 N., Rs. 14 and 15 W., which is an iron post, hereinbefore described, North bet. secs. 31 and 36.

Over mountainous land, through scattering timber and dense undergrowth.

Along E. slope.

11.50 Spur, slopes N.40° E. Desc. 255 ft.

23.80 Gulch, course N.30° W. Asc.

25.00 Thence along W. slope.

30.00 Spur, slopes W. Desc. 75 ft.

34.80 Gulch, course W. Old road in gulch, brs. E. and W. Asc. 35 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap



From which

A cedar, 8 ins. diam., brs. S.71° E., 30 lks. dist., marked S31 BT.

A pinion, 14 ins. diam., brs. S.72° W., 32 lks. dist., marked S36 BT.

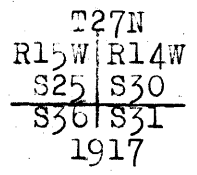
Desc. 90 ft.

61.40 Asc. 55 ft.

74.60 Ridge, brs. N.30° W. and S.30° E. Thence along E. slope.

77.55 Asc. 15 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap



From which

A cedar, 10 ins. diam., brs. N.62° E., 65 lks. dist., marked T27N R14W S30 BT.

A cedar, 8 ins. diam., brs. S.62° E., 57 lks. dist., marked T27N R14W S31 BT.

A cedar, 24 ins. diam., brs. S.54° W., 35 lks. dist., marked T27N R15W S36 BT.

A pinion, 12 ins. diam., brs. N.72° W., 50 lks. dist., marked T27N R15W S25 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinion and cedar.

Undergrowth, scrub oak and manzanita.

North bet. secs. 25 and 30;

Over mountainous land, through dense timber and undergrowth. Asc. 25 ft.

5.00 Desc. 130 ft.

24.80 Draw, course NW. Asc. 70 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

116 Survey of Part of the West Boundary of T. 27 N. R. 14 W.

Chains.

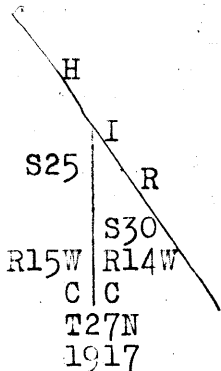
S25 S30

1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor;

Desc.

42.92 Intersect Hualpai Indian Reservation Boundary, 2.60 chs. S.40° E. of the 26½ mile cor., which is a malpais rock in place, 24 X 16 X 12 ins. above ground, marked and witnessed as described by the Surveyor-General. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 25 and 30, marked on brass cap



And raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinion.
Undergrowth, scrub oak and manzanita.

Subdivision of that portion of T. 27 N. R. 14 W. situated outside the Hualpai Indian Reservation.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	West.	102.64				102.64
West Boundary.	North.	122.92	122.92			
Hualpai Indian Reservation Bdy.	S.40°E.	160.56		122.99	103.21	
Convergency.					.03	
Totals.			122.92	122.99	103.22	102.64
				122.92	102.64	
Error in latitude.				.07		
Error in departure					.58	

Retracement and resurvey of part of W. bdy. of T. 27 N., R. 15 W.

Chains.

Retracement and resurvey executed on dates shown on diagram on page 239 hereof, by James C. Hooper, U.S. Transitman, using Young and Sons' light mountain transit No. 8489, hereinbefore described.

Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation, demonstrate that the solar apparatus is in satisfactory adjustment.

RETRACEMENT.

- From the cor. of secs. 19, 24, 25 and 30, which is an iron post, properly set, marked and witnessed as described by the surveyor general,
North, on a random line, bet. secs. 19 and 24.
Over level land, thru. scattering undergrowth.
- 40.12 Fall 1 1/2 lks. W. of the 1/4 sec. cor., bet. secs. 19 and 24, which is an iron post, properly set, marked and witnessed, as described by the surveyor general.
The true course and distance of this half mile is therefore N. 0° 9' E., 40.12 chs.
- From the 1/4 sec. cor.,
North, on a random line, bet. secs. 19 and 24, (N. 1/2°).
40.14 Fall 10 lks. W. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, properly set, marked and witnessed, as described by the surveyor general.
The true course and distance of this half mile is therefore N. 0° 9' E., 40.14 chs.
- Land, level.
Soil, rocky and sandy, 4th rate.
No timber.
Undergrowth, catclaw.

- From the cor. of secs. 13, 18, 19 and 24,
North, on a random line, bet. secs. 13 and 18.
Over rolling land, thru. scattering undergrowth.
- 39.90 Intersect the 1/4 sec. cor., bet. secs. 13 and 18, which is an iron post, properly set, marked and witnessed, as described by the surveyor general.
The true course and distance of this half mile is therefore north 39.90 chs.
- From the 1/4 sec. cor.,
North, on a random, bet. secs. 13 and 18.
40.02 Fall 1 lk. west of the cor. of secs. 7, 12, 13 and 18, which is an iron post, properly set, marked and witnessed as described by the surveyor general.
The true course and distance of this half mile is therefore N. 0° 1' E., 40.02 chs.
- Land, rolling and mountainous.
Soil, rocky and sandy, 4th rate.
No timber.
Undergrowth, catclaw.

RESURVEY.

- From the reestablished cor. of secs. 18 and 19, on the W. bdy. of Tp. 27 N., R. 15 W. which is an iron post, reestablished as described in Book "P," 1.08 chs. S. 0° 9' W. of the original cor. of secs. 13, 18, 19 and 24, hereinbefore described,
S. 0° 9' W., on a true line, along the W. bdy. of sec. 19.
Over rolling land, thru. scattering undergrowth.
- 39.06 The original 1/4 sec. cor. bet. secs. 19 and 24, hereinbefore described. I alter this cor. to refer to sec. 24 only.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished 1/4 sec. cor., of sec. 19, marked on brass cap,

118

118 Resurvey of part of the West bdy. of Township 27 N., R 15 W.

Chains.

S19
1917

- and raise a mound of stone, 2½ ft. base, 2 ft. high, E. of cor.
- 79.18 The cor. of secs. 19, 24, 25 and 30.
Land, level.
Soil, rocky and sandy, 4th rate.
No timber.
Undergrowth, catclaw.

From the reestablished cor. of secs. 18 and 19, N. 0° 9' W., on a true line, along the W. bdy. of sec. 18. Over rolling land, thru scattering undergrowth. Ascend 370 ft.

- 1.08 The original cor. of secs. 13, 18, 19 and 24, hereinbefore described, which I alter to refer to secs. 13 and 24, only. Thence continuing measurement, North, along the W. bdy. of sec. 18.
- 29.18 Spur, slopes N. 70° W. Descend 95 ft.
- 33.21 Foot of descent, brs. N. 60° E. and S. 60° W. Ascend 245 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec. cor., of sec. 18, marked on brass cap,

S18
1917

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- 40.98 The original ¼ sec. cor. bet. secs. 13 and 18, hereinbefore described, which I alter to refer to sec. 13 only. Thence, continuing measurement, N. 0° 1' E., along the W. bdy. of sec. 18.
- 48.78 Spur, slopes S. 70° W. Descend 45 ft.
- 59.53 Ravine, course S. 60° W. Ascend 530 ft.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 8 ins. in the ground, on bedrock, in a mound of stone, for reestablished cor. of secs. 7 and 18, marked on brass cap,

T27N
R16W | R15W
S13 | S 7
 | S18
1917

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- 81.00 The original cor. of secs. 7, 12, 13 and 18, hereinbefore described, which I alter to refer to secs. 12 and 13 only.
Land, rolling and mountainous.
Soil, sandy and rocky, 4th rate.
No timber.
Undergrowth, catclaw.

Completion of survey of West bdy. of Township 27 N., R. 15 W.

Chains.

Survey executed on dates shown on diagram on page 239 hereof, by James C. Hooper, U.S. Transitman, using Young and Sons' light mountain transit No. 8489, hereinbefore described.

From the reestablished cor. of secs. 12 and 13, on the W. bdy. of Tp. 27 N., R. 15 W., hereinbefore described, North, on a random line, setting a temp. $\frac{1}{4}$ sec. cor. at 39.00 chs., and temp. sec. and $\frac{1}{4}$ sec. cors. at intervals of 40.00 chs. thereafter, for the areas E. of line; and temp. $\frac{1}{4}$ sec. and sec. cors. for the areas W. of line at intervals of 40.00 chs.; at 80.00 chs. set a flag ahead on line, and measure a base, N. $89^{\circ}59'W.$, 58.68 chs. from the W. end of which flag brs. N. $55^{\circ}38'E.$
The distance triangulated is given by

$$\frac{58.68}{\sin. 55^{\circ}38'} = \frac{x}{\sin. 34^{\circ}23'}$$

or by logarithms,

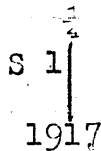
$$\begin{aligned} \log. 58.68 &= 1.768490 \\ \log. \sin. 34^{\circ}23' &= 9.751839 \\ \text{colog. sin. } 55^{\circ}38' &= 0.083313 \end{aligned}$$

$$1.603642 = 40.15 \text{ chs., which}$$

added to 80.00 chs. gives 120.15 chs. Thence continue north, and at 159.81 chs., fall 98 lks. E. of the cor. of Ts. 27 and 28 N., Rs. 15 and 16 W., which is an iron post, hereinafter described. The falling answers to a correction of $0^{\circ}21'$, or 49 lks. W. per mile, counting from the cor. of secs. 12 and 13; therefore,

S. $0^{\circ}21'E.$, on a true line, along the W. bdy. of sec. 6. Over mountainous land, thru dense timber and undergrowth. Ascend 170 ft.

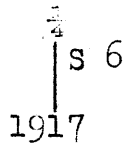
- 25.32 Spur, slopes N. $70^{\circ}W.$ Descend 25 ft.
 - 36.61 Wire fence, brs. N. $20^{\circ}W.$ and S. $20^{\circ}E.$
 - 39.81 Edge of cliff, 130 ft. high, brs. E. and W.
- Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 1, marked on brass cap,



from which,

A juniper, 8 ins. in diam., brs. N. $51^{\circ}W.$, 49 lks. dist., marked $\frac{1}{4}$ S 1 B T.

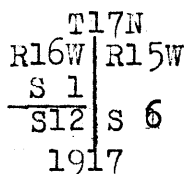
- 40.81 Foot of cliff, brs. E. and W.
- Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., of sec. 6, marked on brass cap,



from which,

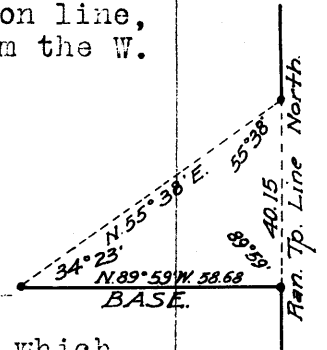
A juniper, 12 ins. in diam., brs. N. $79\frac{1}{2}^{\circ}E.$, 183 lks. dist., marked $\frac{1}{4}$ S 6 B T.

- 49.00 Ravine, course S. $65^{\circ}W.$ Ascend.
- 79.81 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 1 and 12, marked on brass cap



from which,

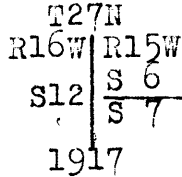
A juniper, 10 ins. in diam., brs. S. $49^{\circ}W.$, 66 lks. dist., marked T27N R16W S12 B T.
A pinon pine, 14 ins. diam., brs. N. $76\frac{1}{2}^{\circ}W.$, 68 lks. dist., marked T 27N R16W S1 B T.



120 Completion of survey of West bdy. of Township 27 N. R. 15 W.

Chains.

80.81 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 6 and 7, marked on brass cap,



from which,

A juniper, 12 ins. in diam., brs. N. 67 $\frac{1}{2}$ ° E., 141 lks. dist., marked T 27N R15W S6 B T.

A pinon pine, 10 ins. in diam., brs. S. 58 $\frac{1}{2}$ ° E., 129 lks. dist., marked T27 N R15W S7 B T.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinon pine.
Undergrowth, catclaw.

S. 0° 21' E., on a true line, along the W. bdy. of sec. 7. Over mountainous land, thru. scattering timber and undergrowth.

Descend 70 ft.

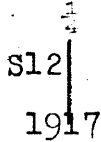
11.76 Draw, course E. Ascend 15 ft.

14.64 Divide brs. N. 65° W. and S. 50° E. Descend 285 ft.

33.30 Ravine, course S. 50° W. Ascend.

34.90 Descend 330 ft.

39.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 12, marked on brass cap,

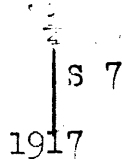


from which,

A juniper, 7 ins. in diam., brs. S. 44 $\frac{1}{2}$ ° W., 152 lks. dist., marked $\frac{1}{4}$ S 12 B T.

Cor. stands under W. face of red sandstone cliff, 12 ft. high.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., of sec. 7, marked on brass cap,



from which,

A juniper, 5 ins. in diam., brs. S. 19 $\frac{1}{2}$ ° E., 165 lks. dist., marked $\frac{1}{4}$ S 7 B T.

58.00 Ascend.

63.00 Spur, slopes S. 60° E. Descend 725 ft.

79.00 The reestablished cor. of secs. 12 and 13, hereinbefore described.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pinon pine.
Undergrowth, catclaw.

Survey of Part of the South Boundary of T. 28 N., R. 15 W. 121
Chains.

Survey executed on dates shown on diagram on page 243 here-
of, by S. Frank Walters, U.S. Transitman, using Buff. solar
transit No. 19985, hereinbefore described.
Testing from Recent and repeated tests of this instrument
on a meridian established by observations on Polaris
at elongation demonstrate that it is in satisfactory
adjustment.

From the cor. of Ts. 27 and 28 N., Rs. 15 and 16 W., which
is an iron post, hereinafter described,
East on a true line, along the S. bdy. of sec. 31.
Over rolling land, through dense timber and undergrowth.
Along N. slope.
20.00 Desc. gradually.
33.50 Wash, 20 lks. wide, 2 ft. deep, course N. Asc. 100 ft.
38.81 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor. of sec. 6, marked on brass cap,

$\frac{1}{4}$ S 6
1917

From which
A cedar, 6 ins. diam., brs. S. 43 $\frac{1}{2}$ ° E., 53 lks. dist.,
marked $\frac{1}{4}$ S 6 BT.
A cedar, 8 ins. diam., brs. S. 42° W., 12 lks. dist.,
marked $\frac{1}{4}$ S 6 BT.
40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., of sec. 31, marked on brass cap,

$\frac{1}{4}$ S 31
1917

From which
A cedar, 8 ins. diam., brs. N. 35° W., 90 lks. dist.,
marked $\frac{1}{4}$ S 31 BT.
A cedar, 10 ins. diam., brs. N. 53 $\frac{1}{2}$ ° W., 118 lks. dist.,
marked $\frac{1}{4}$ S 31 BT.
64.00 Ridge, brs. N. and S. Desc. 145 ft.
70.00 Draw, course N. 30° E. Asc. 150 ft.
78.81 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 5 and 6, T. 27 N., R. 15 W.,
marked on brass cap

T28N R15W
S 31
 $\frac{1}{4}$ S 6 | S 5
T27N
1917

From which
A pinion, 6 ins. diam., brs. S. 17° E., 24 lks. dist.,
marked T27N R15W S5 BT.
A pinion, 6 ins. diam., brs. S. 57° W., 27 lks. dist.,
marked T27N R15W S6 BT.
80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of
stone, for cor. of secs. 31 and 32, T. 28 N., R. 15 W.,
marked on brass cap

T28N R15W
S 31 | S 32
S 5
T27N
1917

From which
A pinion, 10 ins. diam., brs. N. 37 $\frac{1}{2}$ ° E., 21 lks. dist.,
marked T28N R15W S32 BT.
A pinion, 6 ins. diam., brs. N. 75 $\frac{1}{2}$ ° W., 27 lks. dist.,
marked T28N R15W S31 BT.

Survey of Part of the South Boundary of T. 28 N., R. 15 W.

Chains.

Land, rolling.
Soil, rocky, 4th rate.
Timber, cedar and pinion.
Undergrowth, cat claw and scrub oak.

East on a true line, along the S. bdy. of sec. 32.
Over rolling land, through dense timber and undergrowth.
Asc. 30 ft.
3.80 Spur, slopes N. Desc. 180 ft.
33.30 Wire fence, brs. N. and S.
35.00 Draw, course N. Asc. 130 ft.
38.81 (40.00 chs. from the cor. of secs. 5 and 6, T. 27 N., R. 15 W.)

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 5, marked on brass cap,

$\frac{1}{4}$ S 5
1917

From which

A pinion, 8 ins. diam., brs. S. $42\frac{1}{2}^{\circ}$ E., 62 lks. dist., marked $\frac{1}{4}$ S5 BT.

A pinion, 6 ins. diam., brs. S. $19\frac{1}{4}^{\circ}$ E., 69 lks. dist., marked $\frac{1}{4}$ S5 BT.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 32, marked on brass cap,

$\frac{1}{4}$ S32
1917

From which

A cedar, 6 ins. diam., brs. N. $16\frac{1}{2}^{\circ}$ W., 82 lks. dist., marked $\frac{1}{4}$ S32 BT.

A pinion, 7 ins. diam., brs. N. $4\frac{1}{2}^{\circ}$ W., 56 lks. dist., marked $\frac{1}{4}$ S32 BT.

51.90 Ridge, brs. N. and S. Desc. 80 ft.

65.20 Draw, course N. 30° E. Asc. 25 ft.

78.81 (80.00 chs. from the cor. of secs. 5 and 6, T. 27 N., R. 15 W.)

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 4 and 5, T. 27 N., R. 15 W., marked on brass cap

T28N R15W
S32
S 5 | S 4
T27N
1917

From which

A pinion, 8 ins. diam., brs. S. 27° E., 63 lks. dist., marked T27N R15W S4 BT.

A cedar, 10 ins. diam., brs. S. 59° W., 122 lks. dist., marked T27N R15W S5 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 32 and 33, T. 28 N., R. 15 W., marked on brass cap

T28N R15W
S32 | S33
S 4
T27N
1917

From which

A pinion, 6 ins. diam., brs. N. 70° E., 45 lks. dist., marked T28N R15W S33 BT.

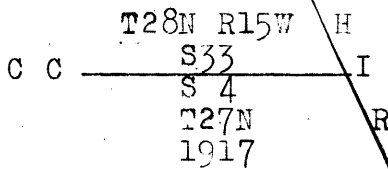
Survey of Part of the South Boundary of T. 28 N., R. 15 W.

Chains.

A pinion, 8 ins. diam., brs. N.44° W., 10 lks. dist., marked T28N R15W S32 BT.
 Land, rolling.
 Soil, rocky, 4th rate.
 Timber, dense cedar and pinion.
 Undergrowth, cat claw and scrub oak.

19.14

East on a true line, along the S. bdy. of sec. 33.
 Over rolling land, through dense timber and undergrowth.
 Asc. 85 ft.
 Intersect Hualpai Indian Reservation Boundary, 25.32 chs. N.39° 58' W. of the 21 mile cor., which is a stone, described in Book "P."
 At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 4 and 33, marked on brass cap



From which
 A cedar, 12 ins. diam., brs. N.73° W., 130 lks. dist., marked CCT28N R15W S33 BT.
 A cedar, 14 ins. diam., brs. S.44° E., 36 lks. dist., marked CCT27N R15W S4 BT.
 Land, rolling.
 Soil, rocky, 4th rate.
 Timber, dense cedar and pinion.
 Undergrowth, cat claw and scrub oak.

Boundaries of that part of T. 27 N., R. 15 W. situate outside the Hualpai Indian Reservation. Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	N.89° 58' W.	479.33	.28			479.33
West Boundary.	North.	160.00	160.00			
	N.0° 9' E.	80.26	80.26		.21	
	North.	39.90	39.90			
	N.0° 1' E.	40.02	40.02		.01	
North Boundary.	East.	179.14			179.14	
Hualpai Indian Reservation bdy.	S.39° 58' E.	25.32		19.41	16.26	
	S.40° 8' E.	39.91		30.51	25.72	
	S.39° 49' E.	39.30		30.19	25.16	
	S.40° 2' E.	39.73		30.42	25.56	
	S.40° 16' E.	39.79		30.36	25.71	
	S.39° 54' E.	39.79		30.53	25.52	
East boundary	South.	244.20		187.07	156.97	
Convergency.		122.92		122.92		
Totals.			480.27	481.41	480.66	480.31
Error in latitude.				1.14		
Error in departure.					.35	

Retracement, Resurvey & Survey of a portion of N. bdy. of T. 27N. R. 16W.

Chains.

Retracement, Resurvey and Survey executed on dates shown on diagrams on pages 239 and 243 hereof by S. Frank Walters, and James C. Hooper, U.S. Transitmen, using respectively, a Buff solar transit No. 9985 and Young and Sons' light mountain transit No. 8489, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment.

Initials "S.F.W." and "J.C.H." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by S. Frank Walters, and James C. Hooper, U. S. Transitmen.

RETRACEMENT.

S.F.W.
 From the $\frac{1}{4}$ sec. cor. of secs. 4 and 33, a 1 in. iron post, with brass cap, firmly set, marked and witnessed as described by the surveyor general,
 N. $89^{\circ}57'W.$, on a random line, on $W.\frac{1}{2}$, bet. secs. 4 and 33.
 40.00 No trace of cor. of secs. 4, 5, 32 and 33 can be found.
 Continue line and measurement on $E.\frac{1}{2}$, bet. secs. 5 and 32.
 80.00 No trace of $\frac{1}{4}$ sec. cor. of secs. 5 and 32 can be found.
 Continue line and measurement on $W.\frac{1}{2}$ bet. secs. 5 and 32.
 120.30 Fall 16 lks. N. of cor. of secs. 5, 6, 31 and 32, a stone in mound of stone, marked and witnessed, as described by the surveyor general.
 The true course and dist. of line N. of sec. 5, and N. of $W.\frac{1}{2}$ of sec. 4 is therefore, S. $89^{\circ}58'W.$, 120.30 chs.

From cor. of secs. 5, 6, 31 and 32,
 N. $89^{\circ}57'W.$, on a random line on $E.\frac{1}{2}$, bet. secs. 6 and 31.
 40.25 Fall 100 lks. S. of the $\frac{1}{4}$ sec. cor. of secs. 6 and 31, a 1 in. iron post, with brass cap, firmly set, marked and witnessed as described by the surveyor general.
 The true course and dist. of $E.\frac{1}{2}$ bet. secs. 6 and 31 is therefore, N. $88^{\circ}32'W.$, 40.25 chs.
 From the $\frac{1}{4}$ sec. cor. of secs. 6 and 31,
 N. $89^{\circ}57'W.$, on a random line, on $W.\frac{1}{2}$ bet. secs. 6 and 31.
 38.95 Fall 10 lks. S. of cor. of Ts. 27 and 28 N., Rs. 16 and 17 W., a 3 in. iron post, with brass cap, marked and witnessed as described by the surveyor general.
 The true course and dist. of $W.\frac{1}{2}$ bet. secs. 6 and 31, is therefore N. $89^{\circ}49'W.$, 38.95 chs.
 S.F.W.

RESURVEY.

S.F.W.
 From the $\frac{1}{4}$ sec. cor. of secs. 4 and 33,
 S. $89^{\circ}58'W.$, on a true line, bet. secs. 4 and 33 ($W.\frac{1}{2}$).
 Over mountainous land, thru scattering undergrowth.
 Ascend 585 ft.
 17.80 Ridge, brs. N. $30^{\circ}W.$ and S. $30^{\circ}E.$ Descend 485 ft.
 36.20 Spur, slopes SW. Continue descent.
 40.10 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone, for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T28N R16W
 S32 | S33
 S 5 | S 4
 T27N
 1917

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber. Undergrowth, catclaw and scrub oak.

126

Resurvey of a portion of the Nbdy. of Township 27 N. R. 16 W.

Chains.

- S. $89^{\circ}58'W.$, on a true line, bet. secs. 5 and 32.
Over mountainous land, thru scattering undergrowth.
Descend 145 ft.
- 56.15 Gulch, course S. $30^{\circ}W.$
- 14.70 Gulch, course S. $70^{\circ}W.$ Ascend 490 ft.
- 21.20 Spur, slopes SE. Continue ascent.
- 38.40 Ridge, brs. NE. and SW. Ascend 85 ft. along N. slope.
- 40.10 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 32
S 5
1917
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 50.00 Spur, slopes N. Descend 145 ft.
- 62.50 Head of gulch, course N. Ascend 65 ft.
- 65.50 Spur, slopes N. $50^{\circ}W.$ Descend 200 ft.
- 80.20 The original cor. of secs. 5, 6, 31 and 32, which is a stone $14 \times 8 \times 16$ ins. above ground, set in a mound of stone, marked and witnessed as described by the surveyor general.
- Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub oak, and catclaw.

RETRACEMENT.

- N. $88^{\circ}32'W.$, on a true line, bet. secs. 6 and 31.
Over mountainous land, thru scattering undergrowth.
Descend 650 ft.
- 31.30 Foot of descent, brs. N. $30^{\circ}W.$ and S. $30^{\circ}E.$ Thence over level land.
- 40.26 The original $\frac{1}{4}$ sec. cor., which is an iron post, properly set, marked and witnessed as described by the surveyor general.
- From the $\frac{1}{4}$ sec. cor.,
- 3.65 N. $89^{\circ}49'W.$, on a true line, bet. secs. 6 and 31 (W. $\frac{1}{2}$).
Wash, 80' lks. wide, 4 ft. deep, course S.
- 12.05 Wash, course S. $30^{\circ}W.$
- 26.15 Wash, course S. $50^{\circ}W.$
- 38.95 The cor. of T. 27 and 28 N., R. 16 and 17 W., which is an iron post, properly set, marked and witnessed as described by the surveyor general.
- Land, level.
Soil, rocky, 4th rate.
No timber.
Undergrowth, catclaw, and scrub oak.

S.F.W.

SURVEY.

- S.F.W.
From the cor. of secs. 3, 4, 33 and 34, on N. bdy. of T. 27 N., R. 16 W., which is an iron post, properly set, marked and witnessed as described by the surveyor general,
East, on a true line, bet. secs. 3 and 34.
Over mountainous land, thru scattering undergrowth.
Ascend 200 ft.
- 18.20 Spur, slopes SW. Descend.
- 24.70 Gulch, course SW. Ascend 1015 ft. along gulch, course W.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 34
S 3
1917

Survey of a portion of the North bdy. of T. 27 N., R. 16 W. 127

Chains.

and raise a mound of stone, 2ft. base, 1 1/2 ft. high, N. of cor. Cor. is set 1 chain S. of gulch, course W.

- 64.00 Leave gulch, course W. Comes from NE.
- 73.50 Enter scattering timber, brs. NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 2, 3, 34 and 35, marked on brass cap,

T28N R16W
 S34 S35
 S 3 S 2
 T27N
 1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinon and cedar.
Undergrowth, scrub oak and catclaw.

East, on a true line, bet. secs. 2 and 35.
Over mountainous land, thru, scattering timber and undergrowth.

- Descend.
- 1.60 Gulch, course N. 70° W. Ascend 535 ft.
- 13.20 Ridge, brs. N. and S. Descend 130 ft., thru dense timber.
- 39.50 Draw, course S. 50° E. Ascend 25 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap,

S35
 S 2
 1917

from which,
 A pinon, 10 ins. in diam., brs. N. 35 1/2° E., 8 lks. dist., marked 1/4 S 35 B T.
 A pinon, 12 ins. in diam., brs. S. 13° 40' W., 19 lks. dist., marked 1/4 S 2 B T.

- 45.00 Descend 150 ft.
- 73.20 Gulch, course S. Ascend 115 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T28N R16W
 S35 S36
 S 2 S 1
 T27N
 1917

from which,
 A pinon, 8 ins. in diam., brs. N. 47 1/2° E., 56 lks. dist., marked T 28 N R16 W S36 B T.
 A pinon, 12 ins. in diam., brs. S. 55 1/2° E., 43 lks. dist., marked T 27 N R16 W S 1 B T.
 A pinon, 8 ins. in diam., brs. S. 69 1/4° W., 49 lks. dist., marked T 27 N R16 W S 2 B T.
 A pinon, 8 ins. in diam., brs. N. 68° W., 57 lks. dist., marked T 28 N R16 W S35 B T.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinon.
Undergrowth, scrub oak, and catclaw.

-
- 3.00 East, on a true line, bet. secs. 1 and 36.
Over mountainous land, thru dense timber and undergrowth. Ascend 35 ft.
Spur, slopes S. Descend 170 ft.

128. Survey of a portion of North bdy. of T. 27 N., R. 16 W.

Chains.
 14.60 Gulch, course S. 40° W. Ascend 115 ft.
 34.35 Descend.
 39.30 Gulch, course S. 30° W. Ascend 195 ft.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 36
 S 1
 1917

from which,

- A cedar, 8 ins. in diam., brs. N. 77° E., 79 lks. dist., marked $\frac{1}{4}$ S 36 B T.
- A pinon, 8 ins. in diam., brs. S. 54 $\frac{1}{2}$ ° E., 36 lks. dist., marked $\frac{1}{4}$ S 1 B T. S.F.W.

J.C.H.

78.57 Spur, slopes N.; descend.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., on bed rock, in a mound of stone, for cor. of Ts. 27 and 28 N., Rs. 15 and 16 W., marked on brass cap,

T28N
 R16W | R15W
 S36 | S31
 S 1 | S 6
 T27N
 1917

from which,

- A pinon, 5 ins. in diam., brs. N. 57° E., 6 lks. dist., marked T28N R15W S31 B T.
- A pinon, 5 ins. diam., brs. S. 13° E., 64 lks. dist., marked T27N R15W S6 B T.
- A pinon, 6 ins. in diam., brs. S. 74° W., 95 lks. dist., marked T27N R16W S1 B T.
- A pinon, 7 ins. in diam., brs. N. 61 $\frac{1}{2}$ ° W., 80 lks. dist., marked T28N R16W S36 B T.

Land, mountainous and rolling.
 Soil, rocky and gravelly, 4th rate.
 Timber, pinon and juniper.
 Undergrowth, scrub oak and manzanita.

J.C.H.

 Boundaries of Township 27 North, Range 16 West.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	N. 89° 57' W.	479.22	.42			479.22
West boundary,	North,	480.00	480.00			
North boundary,	S. 89° 49' E.	38.95		.13	38.95	
	S. 88° 32' E.	40.26	1.04		40.25	
	N. 89° 58' E.	120.30	.07		120.30	
	S. 89° 57' E.	40.00		.04	40.00	
	East,	240.00			240.00	
East boundary,	S. 0° 21' E.	159.81		159.81	.98	
	S. 0° 1' W.	40.02		40.02		.01
	South,	39.90		39.90		
	S. 0° 9' W.	80.26		80.26		.21
	South,	160.00		160.00		
Convergency,					.52	
Totals,			481.53	480.16	481.00	479.44
			480.16		479.44	
Error in latitude,			1.37			
Error in departure,					1.56	

Chains.

Survey executed on dates shown on diagram on page 231 here-
of, by H. G. Bardsley, U.S. Surveyor, Using Young and
Sons' light mountain transit No. 8532, hereinbefore de-
scribed.

Recent and repeated tests of the instrument on a meridian
established by observations on Polaris at elongation,
demonstrate that it is in satisfactory adjustment.

From the reestablished cor. of Rs. 26 and 27 N., Rs. 18 and
19 W. hereinbefore described,
North, bet. secs. 31 and 36.

Over rolling and mountainous land, thru, scattering under-
growth.

Ascend 80 ft. to

- 15.00 Ridge, brs. E. and W. Descend 35 ft. to
- 23.00 Wash, 30 lks. wide, course S. 30° E. Ascend 90 ft. to
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

1915 on S. rim;
S36 in W., and
S31 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W.
of cor.

Descend slightly to

- 45.00 Wash, 10 lks. wide, course S. 15° W. Ascend 605 ft. to
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 25, 30, 31 and 36, marked on
brass cap,

1915 on S. rim;
T27N in N. half;
R19W S25 in NW.,
R18W S30 in NE.,
S31 in SE., and
S36 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1½ ft. high, W. of
cor.

Land, rolling and mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, greasewood, yucca and cacti.

North, bet. secs. 25 and 30.

Over rolling and mountainous land, thru, scattering under-
growth.

Descend to

- 1.00 Wash, 5 lks. wide, course W. Ascend 65 ft. to
- 8.00 Ridge, brs. E. and W. Descend 40 ft. to
- 12.00 Wash, 5 lks. wide, course E. Ascend 70 ft. to
- 18.00 Ridge, brs. E. and W. Descend 85 ft. to
- 26.00 Wash, 5 lks. wide, course S. 20° E. Ascend 105 ft. to
- 32.00 Ridge, brs. E. and W. Descend 20 ft. to
- 35.00 Wash, 5 lks. wide, course S. 30° E. Ascend 250 ft.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. for., marked on brass cap,

1915 on S. rim;
S25 in W., and
S30 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W.
of cor.

- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 19, 24, 25 and 30, marked
on brass cap,

1915 on S. rim;
T27N in N. half;
R19W S24 in NW.,

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Chains.

R18W S19 in NE.,
S30 in SE., and
S25 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
Land, rolling and mountainous.
Soil, stony, 4th rate.
No timber.
Undergrowth, greasewood, yucca and cacti.

May 17, 1915: At 8h.6m.a.m., 1.m.t., I set off 35°42½'
N. on the lat. arc; 19°11½' N. on the decl. arc; and de-
termine a meridian with the solar at the cor. of secs.
25, 30, 19 and 24.

Thence,
North, bet. secs. 19 and 24.
Over rolling and mountainous land, thru scattering under-
growth.

Ascend to
5.00 Descend 295 ft. to
39.00 Gulch, 5 lks. wide, course E. Ascend 40 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for ¼ sec. cor., marked on brass cap,

1915 on S. rim;
S24 in W., and
S19 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.50 Descend 95 ft. to
53.00 Gulch, 5 lks. wide, course S. 40° E. Ascend 115 ft. to
61.20 Descend 535 ft. to
77.55 Gulch, 20 lks. wide, course N. 20° W. Ascend slightly to
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for cor. of secs. 13, 18, 19 and 24, marked on
brass cap,

1915 on S. rim;
T27N in N. half;
R19W S13 in NW.,
R18W S18 in NE.,
S19 in SE., and
S24 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of
cor.
Land, rolling and mountainous.
Soil, stony, 4th rate.
No timber.
Undergrowth, greasewood, yucca and cacti.

North, bet. secs. 13 and 18.
Over mountainous land, thru scattering undergrowth.
Descend 215 ft. to

29.70 Center of wash, 60 lks. wide, course E. Ascend slightly, to
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
ground, for ¼ sec. cor., marked on brass cap,

1915 on S. rim;
S13 in W., and
S18 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Descend to
42.00 Wash, 30 lks. wide, course SW. Ascend 50 ft. to
53.00 Descend slightly to
56.00 Wash, 10 lks. wide, course S. 30° E. Ascend 45 ft. to
59.90 Descend slightly to
61.40 Head of wash, course E. Ascend 40 ft. to
67.30 Ridge, brs. E. and W. Descend 135 ft. to
74.55 Ascend 25 ft. to
80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the
ground, for cor. of secs. 7, 12, 13 and 18, marked on

Chains.

brass cap

1915 on S. rim;
T27N in N. half;
R19W S12 in NW.,
R18W S7 in NE.,
S18 in SE. and
S13 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, mountainous.

Soil, stony; 4th rate.

No timber.

Undergrowth, greasewood, yucca and cacti.

May 17, 1915. At this cor. I set off a line 120 ft. on the
E. side; and at an angle of 100° I measure the line on
the N. side; the angle between the lines is 157° 41' 11".

North bet. secs. 7 and 12.

Over rolling land, through scattering undergrowth.

Asc. 45 ft. to

12.00 Desc. 15 ft. to

15.00 Wash, 3 lks. wide, course E. Asc. 15 ft. to

16.50 Desc. 20 ft. to

20.00 Wash, 10 lks. wide, course SE. Asc. 35 ft. to

22.50 Desc. 40 ft. to

35.00 Wash, 50 lks. wide, course S.30° E. Asc. 80 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for ¼ sec. cor., marked on brass cap

1915 on S. rim;
¼S12 in W. and
S7 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

From this cor., well brs. N.80° 50' W., 26 chs. dist.

42.00 Desc. 55 ft.

50.50 Road, brs. N.20° E. and S.20° W.

51.00 Wash, 40 lks. wide, course E. Asc. 50 ft. to

74.80 Desc. to

77.00 Wash, 5 lks. wide, course E. Asc. 40 ft. to

80.00 Ridge, brs. E. and W.

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 1, 6, 7 and 12, marked on
brass cap

1915 on S. rim;
T27N in N. half;
R19W S1 in NW.,
R18W S6 in NE.,
S7 in SE. and
S12 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.

Land, rolling.

Soil, stony; 4th rate.

No timber.

Undergrowth, greasewood, yucca, and cacti.

North bet. secs. 1 and 6.

Over rolling land, through scattering undergrowth

Desc. 45 ft. to

5.00 Asc. 35 ft. to

10.00 Desc. 25 ft.

18.80 Road, brs. E. and W.

19.00 Wash, 60 lks. wide, course SE. Asc. 90 ft. to

35.00 Ridge, brs. E. and W. Desc. 50 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for ¼ sec. cor., marked on brass cap

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Chains.

1915 on S. rim;
 $\frac{1}{4}$ S1 in W. and
 S6 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. *Site impracticable.*

42.00 Wash, 10 lks. wide, course S.10° E Asc. 125 ft. to
 54.00 Ridge, brs. SE. and NW. Desc. 50 ft. to
 60.00 Wash, 30 lks. wide, course S.20° E. Asc. 85 ft. to
 69.65 Desc. 65 ft. to
 75.50 Wash, 40 lks. wide, course S.60° E. Asc. 40 ft. to
 80.00 Ridge, brs. E. and W. Descend.

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of Tps. 27 and 28 N., Rs. 18 and 19 W.,
 marked on brass cap

1915 on S. rim;
 T28N in N., and
 T27N in S. half;
 R19W S36 in NW.,
 R18W S31 in NE.,
 S6 in SE. and
 S1 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 S. of cor. *Site impracticable.*

Land, rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood, yucca and cacti.

May 17, 1910.

Survey of North Boundary of T. 27 N., R. 18 W. 31.

Chains.

Survey executed on dates shown on diagram on page 231 here- of, by H.G. Bardsley, U.S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described. From the cor. of T. 27 and 28 N., R. 17 and 18 W., a 3/4 sec. Iron post, with brass cap, marked and witnessed, as described by the surveyor general. (Reestablished in 1912).

West on a random line, along the North bdy. of T. 27 N., R. 18 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 477.96 chs., intersect the W. bdy. of T. 28 N., R. 18 W., 68 lks. N. of the cor. of Tps. 27 and 28 N., Rs. 18 and 19 W., which is an iron post, established by me, as hereinbefore described. The falling answers to a correction of 0° 05' or 11 lks. S. per mile, counting from the NE. cor. of the Tp.,

N. 89° 55' E., on a true line, bet. secs. 6 and 31. Over rolling land, through scattering undergrowth. 10.00 Wash, 5 lks. wide, course S. 80° E. 15.00 Wash, 5 lks. wide, course S. 30° E. Asc. 35 ft. to 18.00 Desc. 25 ft. to 21.00 Wash, 5 lks. wide, course SE. Asc. slightly to 27.00 Desc. 75 ft. to 32.65 Wash, 40 lks. wide, course SE. Asc. 25 ft. to 37.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1915 on S. rim; 1/4 S 31 in N. and S 6 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Desc. 50 ft. to 43.05 Wash, 30 lks. wide, course SE. Asc. 55 ft. to 48.40 Ridge, brs. N. and S. Desc. 50 ft. 56.55 Road, brs. N. and S. 60.00 Foot of desc.; ascend slightly to 70.00 Ridge, brs. NE. and SW. Desc. 55 ft. to 77.96 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap

1915 on S. rim; T28N R18W in N. and T27N in S. half; S31 in NW., S32 in NE., S5 in SE. and S6 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rolling. Soil, stony; 4th rate No timber. Undergrowth, yucca, greasewood and cacti.

N. 89° 55' E., on a true line, bet. secs. 5 and 32. Over rolling land, through scattering undergrowth. Asc. 20 ft. to 8.50 Ridge, brs. NW. and SE. Desc. 315 ft. to 35.00 Wash, 10 lks. wide, course SE. Thence over gently rolling land. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1915 on S. rim; 1/4 S 32 in N. and S 5 in S. half;

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

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Chains.	
51.00	Wash, 20 lks. wide, course SE.
54.75	Wash, 30 lks. wide, course SE.
55.80	Road, brs. NW. and SE.
62.00	Wash, 30 lks. wide, course SE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap 1915 on S. rim; T28N R18W in N. and T27N in S. half; S32 in NW., S33 in NE., S4 in SE. and S5 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, rolling. Soil, stony; 4th rate. No timber. Undergrowth, greasewood, yucca and cacti.
	N.89° 55' E., on a true line, bet. secs. 4 and 33. Over rolling land, through scattering undergrowth.
14.85	Road, brs. N. and S.
32.00	Center of wash, 3 chs. wide, course S.50° E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S33 in N. and S4 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
60.00	Center of wash, 1 ch. wide, course SE.
79.00	Wash, 15 lks. wide, course SE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked on brass cap 1915 on S. rim; T28N R18W in N. and T27N in S. half; S33 in NW., S34 in NE., S3 in SE. and S4 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling; Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, yucca, cat claw and cacti. May 28, 1915: At this cor., I set off 19° 27' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 35° 40' N.
	N.89° 55' E., on a true line, bet. secs. 3 and 34. Over rolling land, through scattering undergrowth, descending gradual slope.
15.30	Road, brs. N.60° W. and S.60° E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S34 in N. and S3 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
58.00	Road, brs. NE. and SW.

Survey of North Boundary of T. 27 N., R.18 W.

<p>Chains. 73.30 80.00</p>	<p>Center of wash, 2 chs. wide, course SE. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap 1915 on S rim; T28N R18W in N. and T27N in S. half; S34 in NW., S35 in NE., S2 in SE. and S3 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood, yucca and cacti.</p>
<p>5.00 40.00 50.30 80.00</p>	<p>N.89° 55' E., on a true line, bet. secs. 2 and 35. Over rolling land, through scattering undergrowth. Center of wash, 2 chs. wide, course NE. Set an iron post; 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S35 in N. and S2 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. Wash, 10 lks. wide course NE. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap 1915 on S. rim; T28N R18W in N. and T27N in S. half; S35 in NW., S36 in NE., S1 in SE. and S2 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling. Soil, stony; 3rd rate. No timber. Undergrowth, greasewood, yucca and cacti.</p>
<p>12.00 40.00 80.00</p>	<p>N.89° 55' E., on a true line, bet. secs. 1 and 36. Over level land, through scattering undergrowth. Wash, 10 lks. wide, course N.60° E. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap 1915 on S. rim; ¼S36 in N. and S1 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. The cor. of Tps. 27 and 28 N., Rs. 17 and 18 W. Land, level. Soil gravel, 3rd rate No timber. Undergrowth, greasewood, yucca and cacti.</p>

136 Survey of North Boundary of T. 27 N., R. 18 W.

Chains.

Boundaries of T. 27 N., R. 18 W.
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary	West.	478.88				478.88
West Boundary	North.	480.00	480.00			
North Boundary	N. 89° 55' E	477.96	.68		477.96	
East Boundary	South.	480.00		480.00		
Convergency.					.52	
Totals.			480.68	480.00	478.48	478.88
			480.00			478.48
Error in latitude			.68			
Error in departure					.40	

Survey of West Boundary of T. 27 N., R. 19 W.

Chains.

Survey executed on dates shown on diagram on page 231 here-
of, by H. G. Bardsley, U.S. Surveyor, using Young and Sons'
light mountain transit No. 8532, hereinbefore described.
Recent and repeated tests of my instrument on a meridian
established by observations on Polaris at elongation,
demonstrate that it is in satisfactory adjustment.
The top of the recent and ...
of ...
at elongation, ...
April 20, 1915, of the west boundary of T. 27 N., R. 19 W.
At 8 hrs. 0 m., a.m., l.m.t., I set off 35° 41' N. on
the lat. arc; 11° 18½' N. on the decl. arc; and deter-
mine a meridian with the solar at the reestablished
cor. of T. 26 and 27 N., R. 19 and 20 W., which is an
iron post hereinbefore described.

Thence,
North bet. secs. 31 and 36.
Over heavily rolling land, through scattering undergrowth.
Desc. 125 ft. to
7.60 Wash, 6 lks. wide, course W.
9.80 Wash, 6 lks. wide, course W. Asc. 35 ft. to
14.30 Spur, slopes N.40° W. Desc. 305 ft. to
28.90 Wash, 10 lks. wide, course W.
36.40 Wash, 10 lks. wide, course W. Asc.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for ¼ sec. cor., marked on brass cap
1915 on S. rim;
¼ S36 in W. and
S31 in E. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
50.00 Desc. to
52.75 Wash, 10 lks. wide, course S.25° W. Asc. 110 ft. to
62.25 Spur, slopes W. Desc. 140 ft. to
72.80 Wash, 5 lks. wide, course N.40° W. Asc. slightly to
74.55 Desc. to
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for cor. of secs. 25, 30, 31 and 36, marked on
brass cap
1915 on S. rim;
T27N in N. half;
R20W S25 in NW.,
R19W S30 in NE.,
S31 in SE. and
S36 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
Land, heavily rolling.
Soil, stony; 4th rate.
No timber.
Undergrowth, greasewood.

North bet. secs. 25 and 30.
Over heavily rolling land, through scattering undergrowth.
14.90 Wash, 5 lks. wide, course W.
20.40 Wash, 20 lks. wide, course S.60° W.
30.10 Wash, 40 lks. wide, course W.
38.60 Center of wash, 60 lks. wide, course S. 60° W.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for ¼ sec. cor., marked on brass cap
1915 on S. rim;
¼ S25 in W. and
S30 in E. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
Asc. 375 ft. to
65.55 Ridge, slopes N.5° W. Desc. 90 ft. to

138 Survey of West Boundary of T. 27 N., R. 19 W.

Chains. 80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap</p> <p>1915 on S. rim; T27N in N. half; R20W S24 in NW., R19W S19 in NE., S30 in SE. and S25 in SW. quadrant;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. <i>with large stone</i>.</p> <p>Land, heavily rolling. Soil, stony; 4th rate. No timber. Undergrowth, greasewood.</p>
7.75 24.80 40.00	<p>North bet. secs. 19 and 24. Over rolling land, through scattering undergrowth. Asc. to Desc. 125 ft. to Wash, 10 lks. wide, course S.85° E. Asc. 160 ft. to</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p>1915 on S. rim; ¼S24 in W. and S19 in E. half;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. <i>with large stone</i>.</p>
50.00 53.75 79.30 80.00	<p>Desc. 25 ft. to Asc. slightly to Desc. 220 ft. to Wash, 5 lks. wide, course S.70° E. Asc. to</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap</p> <p>1915 on S. rim; T27N in N. half; R20W S13 in NW., R19W S18 in NE., S19 in SE. and S24 in SW. quadrant;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. <i>with large stone</i>.</p> <p>Land, rolling. Soil, stony; 4th rate. No timber. Undergrowth, greasewood.</p>
4.00 11.85 22.80 30.00 40.00	<p>North bet. secs. 13 and 18. Over rolling land, through scattering undergrowth. Desc. to Wash, 5 lks. wide, course S.70° E. Asc. 115 ft. to Spur, slopes SE. Desc. 65 ft. to Wash, 10 lks. wide, course E. Asc. slightly to Desc. 220 ft.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p>1915 on S. rim; ¼S13 in W. and S18 in E. half;</p> <p>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. <i>with large stone</i>.</p>
59.85	<p>Road, brs. E. and W.</p>

Survey of West Boundary of T. 27 N., R. 19 W.

Chains.
 60.75 Center of wash, 60 lks. wide, course W.
 70.40 Center of wash, 60 lks. wide, course S30° W.
 Telephone line, brs. N.57° 30' E.
 Road, brs. N.40° E. and S.40° W.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 7, 12, 13 and 18, marked on
 brass cap
 1915 on S. rim;
 T27N in N. half;
 R20W S12 in NW,
 R19W S7 in NE.;
 S18 in SE. and
 S13 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

North bet. secs. 7 and 12.
 Over rolling land, through scattering undergrowth.
 Desc. to
 1.10 Wash, 5 lks. wide, course S.10° E. Asc. 35 ft. to
 5.00 Desc. to
 6.00 Wash, 5 lks. wide, course S.15° E.
 15.00 Wash, 5 lks. wide, course E.
 20.00 Wash, 5 lks. wide, course E. Asc. slightly.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S12 in W. and
 S7 in E. half;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 45.00 Desc. to
 70.60 Wash, 30 lks. wide, course W.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 1, 6, 7 and 12, marked on
 brass cap
 1915 on S. rim;
 T27N in N. half;
 R20W S1 in NW.,
 R19W S6 in NE.,
 S7 in SE. and
 S12 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, rolling.
 Soil, stony; 4th rate.
 No timber.
 Undergrowth, greasewood.

North bet. secs. 1 and 6.
 Over level land, through scattering undergrowth.
 25.60 Wash, 20 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap
 1915 on S. rim;
 ¼S1 in W. and
 S6 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.
 high, W. of cor.
 40.60 Wash, 15 lks. wide, course W.

Survey of West Boundary of T. 27 N., R. 19 W.

Chains.	
59.00	Center of wash, 60 lks. wide, course W.
69.60	Center of wash, 80 lks. wide, course W.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24ins. in the
	ground, for cor. of Tps. 27 and 28 N., Rs. 19 and 20
	W., marked on brass cap
	1915 on S. rim;
	T28N in N.,
	R19W in E.,
	T27N in S. and
	R20W in W. half;
	S36 in NW,
	S31 in NE.;
	S6 in SE. and
	S1 in SW. quadrant;
	dig pits, 24 X 24 X 12 ins., on each line, N., E., and
	W., 4 ft., and S. of post, 8 ft. dist.; and raise a
	mound of earth, 5 ft. base, 2½ ft. high, S. of cor.
	Land, level.
	Soil, sandy; 2nd rate.
	No timber.
	Undergrowth, greasewood, yucca and cacti.

H. G. B.

Survey of North boundary of Township 27 N., R. 19 W.

Chains.

Survey executed on dates shown on diagram on page 235 hereof, by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit No. 8524, hereinbefore described.

Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation, demonstrated that it is in satisfactory adjustment.

From the cor. of T. 27 and 28 N., Rs. 18 and 19 W., hereinbefore described,

West, on a random line, along the north boundary of T. 27 N., R. 19 W., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 477.94 chs., intersect the west boundary of T. 27 N., R. 19 W., 49 lks. S. of the corner of T. 27 and 28 N., Rs. 19 and 20 W., which is an iron post hereinbefore described.

The falling answers to a correction of 0° 03' or 8 lks. N. per mile, counting from the NE. cor. of the township.

S. 89° 57' E., on a true line, bet. secs. 6 and 31. Over level land, thru. scattering undergrowth.

22.95 Center of wash, 70 lks. wide, course N. 88° W.

37.94 Wash, 40 lks. wide, course S. 85° W.

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

1916 on S. rim;
S31 1/4 in N., and
S6 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, of cor.

52.95 Wash, 40 lks. wide, course S. 85° W.

77.94 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

1916 on S. rim;
T28N R19W in N., and
T27N in S. half;
S31 in NW.,
S32 in NE.,
S5 in SE., and
S6 in SW. quadrant;

and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, level.

Soil, gravelly; 2nd rate.

No timber.

Undergrowth, yucca, greasewood, rabbit brush and cacti.

Some grass.

S. 89° 57' E., on a true line, bet. secs. 5 and 32. Over gently rolling land, thru. scattering undergrowth.

6.20 Main road, brs. N. 15° E. and S. 15° W.

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

1916 on S. rim;
S32 1/4 in N., and
S 5 in S. half;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

142 Survey of North bdy. of Township 27 North, Range 19 West.

Chains.

- 40.50 Old road, brs.N.70°W. and S.70°E.
 50.70 Wash, 50 lks.wide, course SW.
 68.60 Old road, brs.N.and S.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.4,5, 32 and 33, marked on brass cap,

1916 on S.rim;
 T28N R19W in N.,and
 T27N in S.half;
 S32 in NW.,
 S33 in NE.,
 S4 in SE., and
 S5 in SW.quadrant;

and raise a mound of stone, 2 ft.base, 1½ ft. high,W. of cor.

Land,gently rolling.

Soil,gravelly, 2nd rate.

No timber.

Undergrowth, greasewood, yucca, catclaw, rabbit brush and cacti.

S.89° 57' E., on a true line, bet. secs. 4 and 33.

- Over level and rolling land, thru. scattering undergrowth.
 16.00 Enter wash, course SW. Comes from E.
 23.50 Leave wash, course W. Comes from SE.
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

1916 on S. rim;
 S33 ¼ in N., and
 S 4 in S.half;

and raise a mound of stone, 2 ft.base, 1½ ft.high,N.of cor.

- 60.00 Enter wash, course SW. Comes from E.
 79.00 Leave wash, course W. Comes from ESE.
 80.00 Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground,for cor.of secs. 3,4, 33 and 34, marked on brass cap,

1916 on S.rim;
 T28N R19W in N., and
 T27N in S.half;
 S33 in NW.,
 S34 in NE.,
 S3 in SE., and
 S4 in SW.quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high, W.of cor.

Land, level and rolling.

Soil, gravelly, 2nd rate.

No timber.

Undergrowth, greasewood, yucca, rabbit brush and cacti.

S.89° 57' E., on a true line, bet. secs. 3 and 34.

- Over gently rolling land, thru scattering undergrowth.
 12.50 Enter wash, course SW.
 15.00 Leave wash, course SW.
 40.00 Set an iron post, 3 ft long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

Chains.	
	<p>1916 on S. rim; S34 $\frac{1}{4}$ in N. and S3 in S. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
40.20	Enter wash, course S.70° W.
44.50	Leave wash, course S.70° W.
49.00	Telephone line, brs. N.70° E. to Cyclopic and S.70° W. to Whitehills.
68.55	Road, brs. SE. to Duncan Ranch and N. to Main road.
70.80	Asc. 70 ft. to
75;80	Desc. 25 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap
	<p>1916 on S. rim; T28N R18W in N. and ; T27N in S. half; S34 in NW., S35 in NE., S2 in SE. and S3 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p> <p>Land, gently rolling. Soil, gravelly; 2nd rate. No timber. Undergrowth, greasewood, yucca, cat claw, rabbit brush and cacti. Some grass.</p>
	<p>S.89° 57' E., on a true line, bet. secs. 2 and 35. Over rolling land, through scattering undergrowth.</p>
5.90	Asc. 110 ft.
10.15	Telephone line, brs. N. to Main line, and S. to Ranch house.
14.05	Ridge, brs. N.85° W. and SE. From this point, Pump house brs. S.37° E., 8.00 chs. dist. Blacksmith shop brs. S.5° E., 9.00 chs. dist. Duncan Ranch house brs. S.5° W., 12.00 chs. dist. Corrals brs. S.20° W., 13.00 chs. dist. House brs. N.53° W., 18.00 chs. dist. Cyclopic Pumping Plant House brs. N.58° W., 18.00 chs. dist. Desc. 125 ft. to
33.65	Wash, 30 lks. wide, course NW. Asc. 40 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	<p>1916 on S. rim; S35 $\frac{1}{4}$ in N. and S2 in S. half; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
	Thence over rolling land.
47.30	From this point, water hole brs. S.20° W., 10.00 chs. dist. Old fire place and cabin wall brs. S.7° W., 12.00 chs. dist.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap
	<p>1916 on S. rim; T28N R19W in N. and T27N in S. half; S35 in NW., S36 in NE., S1 in SE. and S2 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p>

144. Survey of North Boundary of T. 27 N., R. 19 W.

Chains.

Land, rolling.
Soil, rocky; 3rd rate.
No timber.
Undergrowth, greasewood, yucca, cat claw, rabbit brush and cacti.
Some grass.

S.89° 57' E., on a true line, bet. secs. 1 and 36.
Over level land, through scattering undergrowth.

12.40 Leave level land, asc. 75 ft. to
16.25 Main ridge of hills, brs. N. and S. Desc. 105 ft. to
28.35 Asc. 25 ft. to
33.30 Desc. 60 ft. to
35.00 Asc. 140 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
S36 $\frac{1}{4}$ in N. and
S1 in S. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

55.25 Ridge, brs. N.80° W. and S.80° E. Desc. 230 ft. to
70.90 Wash, 20 lks. wide, course S.70° E. Asc. 30 ft. to
80.00 The cor. of Tps. 27 and 28 N., Rs. 18 and 19 W.
Land, level and mountainous.
Soil, gravel; 2nd rate.
No timber.
Undergrowth, yucca, sagebrush, cat claw and cacti.
Some grass.

E. J. L.

Boundaries of T. 27 N , R. 19 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	N.89°55'W.	478.53	.72			478.53
West Boundary.	North.	480.00	480.00			
North Boundary.	S.89°57'E.	477.94		.49	477.94	
East Boundary.	South.	480.00		480.00		
Convergency.					.52	
Totals.			480.72	480.49	478.46	478.53
			480.49			478.46
Error in latitude.			.23			
Error in departure						.07

U. S. Surveyor.

Survey of part of W. bdy. of T. 27 N., R. 20 W.

Chains.

Survey conducted by H. G. Bardsley, U.S. Surveyor, with four assistants, using a Young and Sons' light mountain transit No. 8532, herein before described. In before described. Recent and repeated tests of my instrument on a meridian line established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

April 10, 1915.

At 8 hrs. 0 m., a.m., l.m., t., I set off 35° 41' N. on the lat. arc; 7° 43' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 26 and 27 N., Rs. 20 and 21 W., which is an iron post, hereinbefore described.

Thence, I go

North bet. secs. 31 and 36.
Over level land, through scattering undergrowth.

20.00 Road, brs. N. 30° E. and S. 30° W.
25.00 Wash, 5 lks. wide, course E.
32.00 Road, brs. NW. and SE.
34.00 Wash, 5 lks. wide, course SE.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S36 in W. and
S31 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

42.00 Wash, 5 lks. wide, course E.
43.00 Road, brs. NE. and SW.
50.00 Wash, 5 lks. wide, course N. 50° E.
56.00 Road, brs. NE. and SW.
69.00 Wash, 3 lks. wide, course N. 75° E.
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap
1915 on S. rim;
T27N in N. half;
R21W S25 in NW.,
R20W S30 in NE.,
S31 in SE. and
S36 in SW. quadrant;
dig pits, 18 X 18 X 12 ins., in each sec., 5 1/2 ft. dist.;
and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, level.
Soil, sand and gravel; 2nd and 3rd rate.
No timber.
Undergrowth, greasewood.

North bet. secs. 25 and 30.
Over level land, through scattering undergrowth.

5.00 Wash, 5 lks. wide, course NE.
9.00 Road, brs. E. and W.
25.00 Wash, 50 lks. wide, course N. 10° W.
38.00 Wash, 50 lks. wide, course N. 20° E.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
1915 on S. rim;
1/4 S25 in N. and
S30 in E. half;
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

58.00 Center of wash, 60 lks. wide, course N. 10° W.
70.00 Center of Sacramento Wash, 60 lks. wide, course N. 25° W.

146. Survey of part of W. bdy. of T. 27 N., R. 20 W.

Chains. 80.00	<p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap</p> <p>1915 on S. rim; T27N in N. half; R21W S24 in NW., R20W S19 in NE., S30 in SE. and S25 in SW. quadrant;</p> <p>dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood.</p>
10.00 33.00 40.00	<p>North bet. secs. 19 and 24. Over level land, through scattering undergrowth.</p> <p>Wash, 10 lks. wide, course N.20° W.</p> <p>Wash, 10 lks. wide, course N.20° W.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p>1915 on S. rim; ¼S24 in W. and S19 in E. half;</p> <p>dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.</p>
59.00 70.00 80.00	<p>Wash, 4 lks. wide, course N.15° W.</p> <p>Wash, 10 lks. wide, course N.75° W.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap</p> <p>1915 on S. rim; T27N in N. half; R21W S13 in NW., R20W S18 in NE., S19 in SE. and S24 in SW. quadrant;</p> <p>dig pits, 18 X 18 X 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level. Soil, gravel; 3rd rate. No timber. Undergrowth, greasewood.</p>
16.00 32.00 40.00	<p>North bet. secs. 13 and 18. Over level land, through scattering undergrowth.</p> <p>Wash, 4 lks. wide, course N.45° W.</p> <p>Center of wash, 90 lks. wide, course W.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap</p> <p>1915 on S. rim; ¼S13 in W. and S18 in E. half;</p> <p>dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.</p>
46.00 62.00 71.00 80.00	<p>Road, brs. E. and W.</p> <p>Wash, 20 lks. wide, course W.</p> <p>Road, brs. E. and W.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on</p>

Survey of part of West Boundary of T. 27 N. R. 20 W.

Chains.

brass cap
 1915 on S. rim;
 T27N in N. half;
 R21W S12 in NW,
 R20W S7 in NE.;
 S18 in SE. and
 S13 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., 5 1/8 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, level.
 Soil, gravel and sand; 3rd rate.
 No timber.
 Undergrowth, greasewood.

North bet. secs. 7 and 12.
 Over level land, through scattering undergrowth.
 13.00 Wash, 50 lks. wide, course W.
 35.00 Wash, 4 lks. wide, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for 1/4 sec. cor., marked on brass cap
 1915 on S. rim;
 1/4 S12 in W. and
 S7 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
 dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft.
 high, W. of cor.
 41.00 Wash, 30 lks. wide, course W.
 45.00 Wash, 30 lks. wide, course W.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 1, 6, 7 and 12, marked on
 brass cap
 1915 on S. rim;
 T27N in N. half;
 R21W S1 in NW.,
 R20W S6 in NE.,
 S7 in SE. and
 S12 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., 5 1/8 ft. dist.;
 and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor.
 Land, level.
 Soil, gravel; 3rd rate.
 No timber.
 Undergrowth, greasewood.

Apr. 10, 1915. At this cor., I set off the 20' line to the
 sec. cor. on the course W. and I also set the iron
 on the meridian; the result of the 20' is 55' 45" W.
 S. 1.
 Apr. 10, 1915.

148 Survey of part of the N. bdy. of T. 27 N., R. 20 W.

Chains. Survey executed on dates shown on diagrams on pages 231 and 237 hereof, by H. G. Bardsley, U. S. Surveyor, and Royston C. Durnford, U. S. Transitman, using, respectively, Young & Sons' light mountain transits Nos. 8532 & 8526, hereinbefore described.

Initials "H. G. B." & "R. C. D." are inserted at the beginning & ending of those portions of the notes describing the respective surveys by H. G. Bardsley & Royston C. Durnford.

HGB. From the cor. of Ts. 27 & 28 N. Rs. 19 & 20 W., hereinbefore described. West on a true line, bet. secs. 1 and 36. Over level land, through scattering undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ S36 in N. and
 S1 in S. half;
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

58.50 Old road, brs. NE. to Gold Basin, and SW. to Whitehills.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap
 1915 on S. rim;
 T28N R20W in N. and
 T27N in S. half;
 S35 in NW.,
 S36 in NE.,
 S1 in SE. and
 S2 in SW. quadrant;
 dig pits, 18 X 18 X 12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy; 2nd rate.
 No timber.
 Undergrowth, greasewood and yucca.

H. G. B.

R. C. D.
 West on a true line, bet. secs. 2 and 35.
 Over rolling land, through scattering undergrowth.

16.40 Wash, 25 lks. wide, course SW.

18.10 Road, brs. NE. to Gold Basin, and SW. to Whitehills.

18.98 Two wire telephone line, brs. N. $42^{\circ} 16'$ E. to Gold Basin, and $S. 42^{\circ} 16'$ W. to Chloride.

22.60 Wash, 20 lks. wide, course SW. Asc. to

37.00 Top of low, conical hill. Desc. gradually.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1915 on S. rim;
 $\frac{1}{4}$ S35 in N. and
 S2 in S. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

48.40 Dim road, brs. N. and S.

61.30 Dim road, brs. N. and S.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap
 1915 on S. rim;
 T28N R20W in N. and
 T27N in N. half;
 S34 in NW.,
 S35 in NE.,
 S2 in SE. and
 S3 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Survey of part of the North boundary of Township 27 North, Range 20 West. 149

Chains. Land, gently rolling.
Soil, gravelly and stony; 3rd rate.
No timber.
Undergrowth, greasewood and yucca.
R.C.D.

Boundaries of that portion of T.27 N., R.20 W., subdivided under this Group.
Latitudes, departures, and closing errors.

Line designated,	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy. of Tp.	N. 89° 54' W.	479.38	.84			479.38
West bdy. of Tp.	North,	400.00	400.00			
Subdivisional boundary.	East,	79.00			79.00	
	S. 89° 54' E.	160.08		.28	160.08	
	S. 89° 51' E.	80.00		.21	80.00	
	North,	80.00	80.00			
North bdy. of Tp.	East,	160.00			160.00	
East bdy. of Tp.	South,	480.00		480.00		
Convergency,					.46	
Totals,			480.84	480.49	479.54	479.38
			480.49		479.38	
Error in latitude,			0.35			
Error in departure,					0.16	

Boundaries of that portion of T.27 N., R.21 W., subdivided under this Group.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy. of Tp.	S. 89° 58' W.	80.00		.05		80.00
Subdivisional boundary.	N. 0° 1' W.	400.00	400.00			.12
	East,	80.00			80.00	
East boundary of Tp.,	South,	400.00		400.00		
Convergency,					.07	
Totals,			400.00	400.05	80.07	80.12
				400.00		80.07
Error in latitude,			0.05			
Error in departure,					0.05	

150 Survey of Seventh Standard Parallel North, thru Range 16 West.

Chains.

Survey commenced Feb. 27, 1916, and executed by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of the Seventh Standard Parallel North, thru Range 16 West.

At 9h. 0m., p.m., l.m.t., I observe Polaris at western elongation, in accordance with the Manual of Instructions, at the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of T. 28 N., R. 17 W., which is an iron post, properly set, marked and witnessed, as described by the surveyor general, and mark a point in the line thus determined by a cross on a hub driven in the ground, 5 chs. N. of my station.

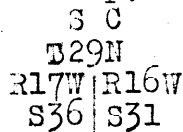
Feb. 28, 1916: At 2h. 5m. p.m., l.m.t., I turn off 91° 24' to the right from the line determined last night, and run East, on a blank line, observing the requirements of the Manual of Instructions for securing a true parallel of latitude, and at 160.88 chs., intersect the east boundary of T. 28 N., R. 17 W., 80.00 chs. N. of the cor. of secs. 1, 6, 7 and 12.

At the point of intersection, I establish the closing cor. of T. 28 N., Rs. 16 and 17 W., as hereinafter described.

Thence,

West on the tangent, S. of sec. 31.

33.35 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of T. 29 N., Rs. 16 and 17 W., marked on brass cap,



1916

Dig pits, 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and N. of post, 8 ft. dist., and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, N. of cor.

Thence,

East on the tangent, S. of sec. 31.

Over rolling land, thru scattering undergrowth.

Ascend 165 ft.

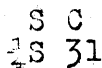
25.17 Rocky spur, slopes NW. Descend slightly to

31.87 Draw, course NW. Ascend slightly to

33.35 The closing cor. of T. 28 N., Rs. 16 and 17 W., hereinafter described.

Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for standard 2 sec. cor., marked on brass cap,



1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

54.32 Draw, course N. Ascend 70 ft. to

80.00 North, 1 lk. from the tangent,

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, marked on brass cap,

Survey of Seventh Standard Parallel North Through Range 16 West

Chains.

S C
T29N R16W
S31 | S32

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Land, rolling
Soil, 3rd rate.
No timber.
Undergrowth, scrub oak and cacti.

8.98
10.94
40.00

S.89° 59' E., on the tangent, S. of sec. 32.
Over mountainous land, through scattering timber and under-
growth.
Asc. 30 ft. to
Spur, slopes N. Desc. slightly to
Draw, course N. Asc. 295 ft.
N. 2 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in diam., in a mound of
stone, for standard ¼ sec. cor., marked on brass cap

S C
¼S 32

1916

44.00
50.66
61.30
69.20
80.00

and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
Spur, slopes N.30° E. Desc. 75 ft. to
Draw, course N.20° E. Asc. 140 ft. to
Desc. 70 ft. to
Asc. 110 ft. to
N. 3 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for standard cor. of secs. 32 and 33, marked on
brass cap

S C
T29N R16W
S32 | S33

1916

From which
A pinion, 6 ins. diam., brs. N.81° E., 53lks. dist.,
marked T29N R16W S33 BT.
A pinion, 8 ins. diam., brs. N.23° W., 124 lks. dist.,
marked T29N R16W S32 BT.
Land, mountainous.
Soil, 4th rate.
Timber, pinion.
Undergrowth, scrub oak and cacti.

24.47
40.00

S.89° 59' E., on the tangent, S. of sec. 33.
Over mountainous land, through scattering timber and under-
growth.
Asc. 460 ft. to
Spur, slopes N. Desc. 105 ft. to
N. 5 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard ¼ sec. cor., marked on brass cap

Survey of Seventh Standard Parallel North, Through Range 16 West.

Chains.

S C
1/4 S 33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Thence along N. slope.

58.00
73.25
80.00

Desc. 480 ft. to

Draw, course N.20° W. Asc. slightly to

N. 7 lks. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 33 and 34, marked on
brass cap

S C
T29N R16W
S33 | S34

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, mountainous.

Soil, 4th rate.

Timber, pinion.

Undergrowth, scrub oak and cacti.

S.89° 58' E., on the tangent, S. of secs. 34.

Over mountainous land, through scattering timber and under-
growth.

32.40
40.00

Desc. 400 ft. to

Draw, course N.20° E. Asc. slightly to

N.9 lks. from the tangent,

Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard 1/4 sec. cor., marked on brass cap

S C
1/4 S 34

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Desc. 285 ft.

50.14
53.62
69.80
76.70
80.00

Small spring brs. S.21 3/4° W.

Same spring brs. S.36 1/2° W.

Draw, course N.30° E. Asc. 30 ft. to

Desc. 25 ft. to

N. 12 lks. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 34 and 35, marked on
brass cap

S C
T29N R16W
S34 | S35

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, mountainous.

Soil, 4th rate.

Timber, pinion.

Undergrowth, scrub oak and cacti.

Survey of Seventh Standard Parallel North, Through Range 16 West. 153

Chains.

11.10 S.89° 57' E., on the tangent, S. of sec. 35.
 26.24 Over mountainous land, through scattering timber and under-
 40.00 growth.
 Asc. 250 ft. to
 Ridge, brs. N. and S. Desc. 140 ft. to
 Gulch, course N.15° E. Thence over rolling land.
 N. 15 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S 35

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Asc. 425 ft. to
 66.60 Spur, brs. NW. Desc. 25 ft. to
 69.10 Gulch, course N.10° W. Asc. 230 ft. to
 77.75 Rim rock, brs. N. and S. Thence over rolling mesa.
 80.00 N.18 lks. from the tangent,
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
 stone, for standard cor. of secs. 35 and 36, marked on
 brass cap

S C
 T29 N R16W
 S35 | S36

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Land, mountainous.
 Soil, 4th rate.
 Timber, scrub cedar and juniper.
 Undergrowth, scrub oak.

16.00 S.89° 57' E., on the tangent, S. of sec. 36.
 17.95 Over rolling mesa, through scattering timber and undergrowth.
 40.00 Asc. 30 ft. to
 Ridge, brs. N. and S. Desc. 730 ft.
 N. 22 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S 36

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of cor.
 Continue descent to
 68.26 Gulch, course NE. Asc. 110 ft. to
 80.00 N. 26 lks. from the secant,
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
 stone, for standard cor. of T. 29 N., Rs. 15 and 16 W.,
 marked on brass cap

546. Survey of Seventh Standard Parallel North Through 16 West.

Chains.

	S C	
	T 29 N	
R16W		R15W
S36		S31

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N of cor.
 Land; mountainous.
 Soil, 4th rate
 Timber, scattering cedar.
 Undergrowth, scrub oak and cacti.

Survey of Seventh Standard Parallel North through part of R. 15 W. 155

Chains Survey executed by E. J. Lange and J. P. Davis, U. S. Surveyors on dates shown on diagrams on pages 235 and 245 hereof. Initials "E.J.L." and "J.P.D." are inserted at the beginning and ending of those portions of the notes describing the surveys by E. J. Lange and J. P. Davis, respectively.

E. J. L.

From the standard cor. of Tp. 29 N., Rs. 15 and 16 W., hereinbefore described,

East on the tangent, S. of Sec. 31.

Over rolling land, through scattering timber and undergrowth. Desc. 125 ft. to

- 4.69 Wash, course N. Asc. 290 ft. to
- 34.25 Ridge, brs. N. and S. Desc. 110 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard 1/4 sec. cor., marked on brass cap

S C
S 31

1916

From which

A pinion, 15 ins. diam., brs. N. 26 1/2° W., 56 lks. dist., marked 1/4 S 31 B T.

No other trees within limits. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Asc. 195 ft. to

- 49.64 Ridge, brs. N. and S. Desc. 240 ft. to
- 73.87 Gulch, course N. 10° W. Asc. to
- 80.00 N. 1 lk. from the tangent. Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for standard cor. of secs. 31 and 32, marked on brass cap

	S	C
T29 N		R15W
S31		S32

1916

From which

A pinion, 12 ins. diam., brs. N. 55° W., 21 lks. dist., marked T29N R15W S31 BT.

No other trees within limits. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, rolling.

Soil, 4th rate.

Timber, pinion and juniper.

Undergrowth, scrub oak and cacti.

E.J.L.

J.P.D.

S. 89° 59' E., on the tangent, S. of Sec. 32.

Over mountainous land, through scattering timber and undergrowth.

Asc. 360 ft. to

- 21.00 Spur, slopes N. Desc. 765 ft. to gulch.
- 32.63 Intersect closing cor. of Secs. 5 and 6, T. 28 N., R. 15 W., described in book "0".
- 35.00 Gulch, course NE. Asc. 215 ft.
- 40.00 N. 2 lks. from the tangent. Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in ground to bed rock in a mound of stone, for standard 1/4 sec. cor., marked on brass cap

156 Survey of Seventh Standard Parallel North, Through part of R.15 W.

Chains

S C
13 32

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

J.P.D.

E.J.L.

53.45 Desc. to

64.00 Gulch, course NW. Asc. 345 ft. to

71.75 Ridge, brs. N. and S. Desc. 120 ft. to

80.00 N. 3 lks. from the tangent.

Set an iron post, 3 ft. long, 3 ins. diam., 20 ins. in
the ground, for standard cor. of secs. 32 and 33,
marked on brass cap

S C
T29N R15W
S32 S33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering pinion and juniper.

Undergrowth, scrub oak and cacti.

E.J.L.

J.P.D.

S. 89° 59' E., on the tangent, S. of sec. 33.

Over rolling land, through scattering undergrowth and
timber

Asc. 50 ft. to.

10.00 Desc. 80 ft. to

17.77 Intersect W. bdy. of Hualpai Indian Reservation 122 lks.

S. 0° 28' W., of the 14 1/2 mile cor., which is a sand-
stone, 16 x 10 x 3 ins., above ground, marked PL on W.,
and HIR 14 1/2 M on E. face, witnessed by a mound of stone,
S. of cor.

At the point of intersection, set an iron post, 3 ft. long,
3 ins. diam., 8 ins. in ground to bed rock, in a
mound of stone, for standard closing cor. of T. 29 N.,
R. 15 W., marked on brass cap

T29N
R15W
S C S33 HIR
C C 1916

and raise a mound of stone, 3 ft. base, 2 ft. high,
W. of cor.

Land, rolling.

Soil, 3rd and 4th rate.

Timber, scattering pine and juniper.

Undergrowth, scrub oak, sagebrush and cacti.

J.P.D.

Survey of Seventh Standard Parallel North, thru, Range 17 West, com- bined with Resurvey of part of North bdy. of Township 28 N.R.17 W.

Chains.

Survey and resurvey executed on dates, shown on diagram on page 235 hereof, by B. J. Lange, U.S. Surveyor, using Young & Sons' light mountain transit No. 8532, hereinbefore described.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation that it is in correct adjustment, proceed to the survey of the Seventh Standard Parallel North, thru Range 17 West.

Begin at the standard cor. of T. 29 N., Rs. 16 and 17 W., hereinbefore described. From the reference line determined by observations on Polaris at elongation hereinbefore described in the survey of the Seventh Standard Parallel North thru Range 16 West, I turn the angle 88° 36' to the left, and run

40.00

West, on the tangent S. of sec. 36. Over rolling land, thru scattering undergrowth. Descend 245 ft. to Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for standard 1/4 sec. cor., marked on brass cap,

SC
1/4 S 36

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

61.53
80.00

Wash, course N. 60° W. Thence over gently rolling land. North 1 link from the tangent. Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap,

S C
T. 29 N R 17 W
S 35 | S 36

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, rolling.
Soil, 4th rate.
No timber.
undergrowth, greasewood and cacti.

11.13
40.00

S. 89° 59' W., on the tangent, S. of sec. 35. Over rolling land, thru scattering undergrowth. Descend 130 ft. to Braw, course N. 70° W. Ascend slightly to North 2 lks. from the tangent. Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for standard 1/4 sec. cor., marked on brass cap,

S C
1/4 S 35

1916

and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor.

47.53

North 2 lks. from the tangent, Intersect iron post originally set for cor. of secs. 2, 3, 34 and 35. Remove same, and obliterate accessories, and in same place, establish closing cor. of secs. 2 and 3, as described in Book "I."

The line for approximately 4 miles west from this cor. was previously surveyed and accepted as part of the N. bdy. of T. 28 N., R. 17 W.; therefore, the survey of the 7th. Standard Parallel North for this distance also constitutes a resurvey of part of the N. bdy. of T. 28 N., R. 17 W.

Survey of 7th. Standard Parallel North, thru. Range 17 West, combined
with Resurvey of part of N. bdy. of T. 28 N., R. 17 West.

6 chains.

The designation of the line being changed, remove all the previously set sec. cors. and Tp. cors., and establish them on the parallel as closing cors., as described in the notes of the resurvey of part of the Subdivision lines of T. 28 N., R. 17 W., in Book "J," and the notes of resurvey of part of W. bdy. of T. 28 N., R. 17 W., hereinafter described. Obliterate all traces of the old $\frac{1}{4}$ sec. cors.

Continue line and measurement.

- 48.13 Pipe line, brs. N. 70° E. and S. 70° W.
48.23 Road brs. N. 70° E. and S. 70° W.
52.00 Wash, course S. 70° W.
70.10 Wash, course S. 70° W. Ascend abruptly to cor.
73.60 Road brs. NE and SW. to Gold Basin.
80.00 North 3 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for standard cor. of secs. 34 and 35, marked on brass cap,

S C
T29N R17W
S34 | S35
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Land, rolling and gently rolling.

Soil, 3rd and 4th rate.

No timber.

Undergrowth, greasewood and rabbit brush.

S. 89° 59' W., on a tangent S. of sec. 34.

Over broken land, thru. scattering undergrowth.

Ascend 55 ft. to

- 3.91 Spur, slopes SW. Descend 90 ft.
7.32 Intersect iron post with brass cap, previously set for $\frac{1}{4}$ sec. cor. of secs. 3 and 34. Remove same, and obliterate the accessories.
9.50 Draw, course S. Ascend 80 ft. to
15.20 Spur, slopes S. 20° W. Descend 160 ft. to
23.35 Draw, course S. 30° W. Ascend 80 ft. to
28.25 Spur, slopes S. Descend 130 ft. to
39.70 Wash, course SW. Ascend slightly.
40.00 North 5 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap,

S C
 $\frac{1}{4}$ S 34

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

- 43.80 Spur, slopes S. 30° W. Descend 105 ft.

- 47.07 North 5 lks. from the tangent,

From this point, the iron post previously set as cor. of secs. 3, 4, 33 and 34, brs. S. 6 lks. dist. Remove post, and obliterate accessories. Establish closing cor. of secs. 3 and 4, T. 28 N., R. 17 W. on Parallel, as described in Book "J."

- 58.20 Draw, course SW. Ascend slightly to
72.00 Spur, slopes S. 20° W. Descend 80 ft. to
74.84 Wash, course SW.

Survey of Seventh Standard Parallel North, thru Range 17 West, combined with Resurvey of part of N.bdy. of T.28 N., R.17 W. 159

Chains.

80.00 North, 7 lks. from the tangent,
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 33 and 34, marked on brass cap,

S C
T29N R17W
S33 | S34

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, broken.
Soil, 3rd and 4th rate.
No timber.
Undergrowth, scrub oak and cacti.

S. 89° 58' W., on the tangent S. of sec. 33.
Over rolling land, thru scattering undergrowth.
Descend 190 ft.

6.92 Intersect iron post with brass cap, previously set for 1/4 sec. cor. of secs. 4 and 33. Remove same, and obliterate the accessories.

Continue descent to

37.10 Wash, course SW.

40.00 North 9 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for standard 1/4 sec. cor., marked on brass cap,

S C
1/4 S 33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

46.80 North 9 lks. from the tangent,
From this point the iron post previously set as cor. of secs. 4, 5, 32 and 33, brs. S. 21 lks. dist. Remove post, and obliterate the accessories. Establish closing cor. of secs. 4 and 5, T. 28 N., R. 17 W. on the Parallel, as described in Book "J."

55.30 Wash, course SW.

74.60 Wash, course S. Ascend 40 ft.

75.82 Road brs. N. to Lost Basin and S. to Gold Basin.

80.00 North, 12 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, marked on brass cap,

S C
T29N R17W
S32 | S33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, rolling.
Soil, 3rd rate.
No timber.
Undergrowth, yucca, rabbit brush and greasewood.

S. 89° 57' W., on the tangent, S. of sec. 32.
Over rolling land, thru scattering undergrowth.

160 Survey of 7th. Standard Parallel North, thru. Range 17 West, combined
with resurvey of part of N. bdy. of T. 28 N., R. 17 W.

Chains.

- Ascend 315 ft.
6.69 Intersect iron post, with brass cap, previously set for $\frac{1}{4}$ sec. cor. of secs. 5 and 32. Remove same, and obliterate the accessories.
32.40 Ridge, brs. NW and SE. Descend 125 ft. to
39.80 Draw, course S. Ascend 50 ft.
40.00 North 15 lks. from the tangent,
Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone, for standard $\frac{1}{4}$ sec. cor., marked on brass cap,

S C
 $\frac{1}{4}$ S 32

1916

- and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
46.55 North 15 lks. from the tangent,
From this point the iron post previously set as cor. of secs. 5, 6, 31 and 32, brs. S 33 lks. dist. Remove post, and obliterate the accessories. Establish closing cor. of secs. 5 and 6, T. 28 N., R. 17 W. on the Parallel, as described in Book "J."
48.35 Spur, slopes SW. Descend 375 ft. to
78.70 Draw, course SW. Ascend to
80.00 North 18 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for standard cor. of secs. 31 and 32, marked on brass cap,

S C
T29N, R17W
S31 | S32

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Land, rolling and mountainous.
Soil, 3rd rate.
No timber.
Undergrowth, greasewood and cacti.

- S. 89° 57' W., on the tangent, S. of sec. 31.
Over rolling land, thru. scattering undergrowth.
Ascend 90 ft. to
6.73 Intersect iron post, with brass cap, previously set as $\frac{1}{4}$ sec. cor. of secs. 6 and 31. Remove post, and obliterate the accessories.
Descend 240 ft.
40.00 North, 22 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap,

S C
 $\frac{1}{4}$ S 31

1916

- Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
41.40 Wash, course NW. Thence over gently rolling land.
45.16 North 22 lks. from the tangent,
From this point the iron post previously set as cor. of Ts. 28 and 29 N., Rs. 17 and 18 W., brs. S. 33 lks. dist. Remove post and obliterate the accessories. Establish closing cor. of Ts. 28 N., Rs. 17 and 18 W. on the Parallel,

Survey of 7th. Standard Parallel North, thru. Range 17 West, combined
with resurvey of part of N. bdy. of Township 28 North, Range 17. W.

Chains.

as hereinafter described.
80.00 North 26 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for standard cor. of Ts. 29 N. Rs. 17 and 18
W., marked on brass cap,

	S C	
	T 29 N	
R18W		R17W
S36		S31

1916

and raised a mound of stone, 2 ft. base, 1½ ft. high, N.
of cor.
Land, rolling.
Soil, 3rd rate.
No timber.
Undergrowth, yucca, greasewood, rabbit brush and cacti.

162 Survey of
Seventh Standard Parallel North, thru. Range 18 West.

Chains.

Survey executed on dates, shown, on diagram on page 235 hereof, by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit, No. 8532, hereinbefore described, and certificate of approval, per Book.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of the Seventh Standard Parallel North, thru. Range 18 West, as follows:

From the standard cor. of Tp. 29 N., Rs. 17 and 18 W., hereinbefore described,

West, on the tangent, S. of sec. 36.

Over level land, thru. scattering undergrowth.

21.22 Road brs. N to Grigg's Ferry and S. to Kingman.

25.60 Wash, course N. 20° W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 24 ins. in the ground, for standard $\frac{1}{2}$ sec. cor., marked on brass cap,

S C
 $\frac{1}{2}$ S 36

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

46.00 Wash, course NE.

61.30 Wash, course NE.

70.60 Wash, course NE.

80.00 North 1 link from the tangent,

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap,

S C
T29N R18W
S35 | S36

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Land, level.

Soil, sandy loam, 1st rate.

No timber.

Undergrowth, greasewood and yucca.

S. 89° 59' W on the tangent, S. of sec. 35.

Over level land, thru. scattering undergrowth.

33.00 Wash, course NE.

40.00 North, 2 lks. from the tangent,

Set an iron post 3 ft. long, 1 in. in diam., 24 ins. in the ground, for standard $\frac{1}{2}$ sec. cor., marked on brass cap,

S C
 $\frac{1}{2}$ S 35

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

48.70 Wash, course NE.

61.00 Wash, course NE.

80.00 North 3 lks. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 34 and 35, marked on brass cap,

Survey of Seventh Standard Parallel North Through Range 18 West. 15163

Chains.

S C	
T29N	R18W
S34	S35

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Land; level.
 Soil, sandy laam, 1st rate.
 No timber.
 Undergrowth, greasewood, yucca, rabbit brush and cacti.

17.00
 20.60
 31.20
 40.00

S.89° 59' W., on the tangent, S. of sec. 34.
 Over level land, through scattering undergrowth.
 Wash, course N.60° E.
 Wash, course N.60° E.
 Wash, course N.60° E.
 N. 5 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for standard ¼ sec. cor., marked on brass cap

S C	
¼S34	

1916

50.00
 58.38
 64.90
 80.0

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Wash, course NE. Asc. abruptly 95 ft. to
 Spur, slopes NE. Desc. to
 Draw, course N.70° E. Asc. 140 ft. to
 N. 7 lks. from the tangent,
 Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the
 ground, in a mound of stone, for standard cor. of secs.
 33 and 34, marked on brass cap

S C	
T29N	R18W
S33	S34

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 N. of cor.
 Land, level and rolling.
 Soil, sandy loam; 1st rate.
 No timber.
 Undergrowth, yucca, rabbit brush, greasewood and cacti.

35.13
 40.00

S.89° 58' W., on the tangent, S. of sec. 33.
 Over mountainous land, through scattering undergrowth.
 Asc. 555 ft. to
 Spur, slopes SE. Desc. 90 ft.
 N. 9 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for standard ¼ sec. cor., marked on brass cap

164 Survey of Seventh Standard Parallel North Through Range 18 West

Chains.

S C
1/4 S33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

42.20 Draw, course S.70° E. Asc. 265 ft. to
59.00 Ridge, brs. N. and S. Desc. 320 ft. to
78.83 Wash, course N. Asc. 190 ft. to
80.00 N. 12 lks. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 32 and 33, marked on
brass cap

S C
T29N R18W
S32 | S33

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, scrub oak and cacti.

S.89° 57' W., on the tangent, S. of sec. 32.
Over mountainous land, through scattering undergrowth.
Asc. 30 ft. to

1.50 Spur, slopes N. Desc. 150 ft. to
11.28 Gulch, course NE. Asc. 265 ft. to
32.42 Spur, slopes NE. Desc. 40 ft. to
37.30 Gulch, course N. Asc. 65 ft.
40.00 N. 15 lks. from the tangent,

Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for standard 1/4 sec. cor., marked on brass cap

S C
1/4 S32

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

41.90 Spur, slopes N. Desc. 65 ft to
48.50 Asc. 95 ft. to
58.30 Ridge, brs. NW. and SE. Desc. 240 ft. to
80.00 N. 18 lks. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for standard cor. of secs. 31 and 32, marked on
brass cap

S C
T29N R18W
S31 | S32

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, scrub oak and cacti.

Survey of Seventh Standard Parallel North Through Range 18 West. 165

Chains.

S. 89° 57' W., on the tangent, S. of sec. 31.
 Over rolling land, through scattering undergrowth.
 Desc. 45 ft. to
 7.80 Wash, course N. Asc. 65 ft. to
 16.90 Spur, slopes N. Desc. 40 ft. to
 21.00 Wash, course N. Thence along N. slope
 40.00 N. 22 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S31

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 42.60 Wash, course N. Asc. 115 ft. to
 62.30 Spur, slopes N. 30° E. Desc. 30 ft. to
 75.00 Asc. 75 ft. to
 80.00 N. 26 lks. from the tangent,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of T. 29 N., Rs. 18 and 19
 W., marked on brass cap

S C
 T 29 N
 R19W | R18W
 S36 | S31

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
 N. of cor.
 Land, rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, yucca, greasewood and cacti.

166 A Survey of The Seventh Standard Parallel North, through Range 19 West.

chains.

Survey executed on dates shown on diagram on page 235 hereof, by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described, on of T. 29 N., Rs. 18 and 19 W. for conditions of ground, and conditions of T. 29 N., Rs. 18 W.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of a portion of the Seventh Standard Parallel North Through Range 19 West.

From the standard cor. of T. 29 N., Rs. 18 and 19 W., hereinbefore described,

West on the tangent, S. of sec. 36.

Over rolling land, through scattering undergrowth.

Desc. 55 ft. to

4.75 Wash, course NW. Thence along rolling N. slope.

24.50 Wash, course N.

38.20 Wash, course N. 30° E. Asc. 130 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for standard 1/4 sec. cor., marked on brass cap

S C
1/4 S36

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

50.70 Spur, slopes NE. Desc. 60 ft. to

57.30 Draw, course NW. Asc. 60 ft. to

68.00 Spur, slopes NE. Desc. 45 ft. to

69.70 Draw, course NE. Asc. 60 ft. to

79.00 Spur, slopes N. Desc. slightly to

80.00 N. 1 lk. from the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap

S C
T29N | R19W
S35 | S36

1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Land, rolling.

Soil, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, yucca, rabbit brush and cacti.

S. 89° 59' W., on the tangent, S. of sec. 35.

Over mountainous land, through scattering undergrowth.

Desc. 30 ft. to

7.80 Draw, course NE. Asc. E. slope 55 ft. to

14.40 Spur, slopes NE. Desc. 55 ft. to

21.10 Wash, course N. 30° E. Asc. gradually, 280 ft.

40.00 N. 2 lks. from the tangent,

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for standard 1/4 sec. cor., marked on brass cap

S C
1/4 S35

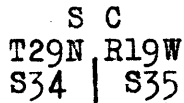
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

A Survey of The Seventh Standard Parallel North through part of Range 19 West. 1167

Chains.

56.10 Ridge, brs. N. 30° E. and S. 30° W. Desc. 160 ft. to
 69.10 Draw, course N. 30° E. Asc. 35 ft. to
 72.80 Spur, slopes NE. Desc. 55 ft. to
 77.10 Wash, course N. 30° E. Road in wash, brs. N. 30° E. and
 S. 30° W. to Whitehills. Asc. 45 ft. to
 80.00 N. 3 lks. from the tangent,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 34 and 35, marked on
 brass cap



1916

and raise a mound of stone, 2ft. base, 1½ ft. high,
N. of cor.

Land, mountainous and broken.

Soil, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, yucca, rabbit brush and cacti.

S. 89° 59' W., on the tangent, S. of sec. 34.
 Over rolling land, through scattering undergrowth.
 Asc. 140 ft. to
 15.00 Ridge, brs. NE. and SW. Desc. 120 ft. to
 27.40 Draw, course NE Asc. 115 ft. to
 40.00 Ridge, brs. N. 20° W. and S. 40° E.
 N. 5 lks. from the tangent,
 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for standard ¼ sec. cor., marked on brasscap

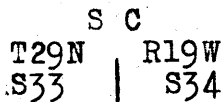


1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.

Desc. 120 ft. to

80.00 N. 7 lks. from the tangent,
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for standard cor. of secs. 33 and 34, marked on
 brass cap



1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.

Land, rolling.

Soil, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, rabbit brush, yucca and cacti.

S. 89° 58' W., on the tangent, S. of sec. 33.
 Over rolling land, through scattering undergrowth.
 Desc. 85 ft. to
 14.70 Wash, course NW. Thence over gently rolling land,

20. A Survey of The Seventh Standard Parallel North, through Range 19 West.

Chains.

40.00 N. 9 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S33

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

54.50 Wash, course N.

80.00 N. 12 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 32 and 33, marked on brass cap

S C
T29N R19W
S32 | S33

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rolling and gently rolling.

Soil, 3rd rate.

No timber.

Undergrowth, yucca, greasewood, rabbit brush and cacti.

29.60 S. 89° 57' W., on the tangent, S. of sec. 32.
Over rolling land, through scattering undergrowth.

38.00 Wash, course NW. Asc. 35 ft. to

Spur, slopes N. Desc.

40.00 N. 15 lks. from the tangent,
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., marked on brass cap

S C
 $\frac{1}{4}$ S32

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

43.40 Wash, course N. Asc. 65 ft. to

49.70 Spur, slopes N. Desc. 75 ft. to

51.40 Wash, course N. Asc. 30 ft. to

57.10 Spur, slopes N. Desc. 110 ft. to

65.40 Draw, course NW. Asc. 35 ft. to

76.30 Spur, slopes N. Desc. 55 ft. to

80.00 N. 18 lks. from the tangent,
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, marked on brass cap

S C
T29N R19W
S31 | S32

1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Land, rolling.

Soil, 3rd rate.

No timber.

Undergrowth, greasewood, yucca, rabbit brush and cacti.

Survey of West Boundary of T. 28 N., R. 15 W.

Chains.

Survey executed on dates shown on diagram on page 243 here-
of, by S. Frank Walters, U.S. Transitman, using Buff Solar
transit No. 9985, hereinbefore described.

Knowing from recent and repeated tests of this instrument
on a meridian established by observations on Polaris
at elongation that it is in adjustment, proceed to
the survey of the West Boundary of T. 28 N., R. 15 W.

From the cor. of Ts. 27 and 28 N., Rs. 15 and 16
W., which is an iron post, hereinbefore described.

North bet. secs. 31 and 36.

Over rolling land, through dense timber and undergrowth.
Desc. 70 ft.

18.80 Wash, 20 lks. wide, 2 ft. deep, course N.30° E. Asc. 60
ft.

35.30 Ridge, brs. N.40° E. and S.40° W. Desc. 95 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for 1/2 sec. cor., marked on brass cap

S36 | S31
1917

From which

A cedar, 6 ins. diam., brs. S.41° E., 141 lks. dist.,
marked S31 BT.

A pinion, 8 ins. diam., brs. N.57 1/2° W., 50 lks. dist.,
marked S36 BT.

58.30 Wash, 15 lks. wide, 2 ft. deep, course N.70° E. Asc. 35 ft.

72.30 Leave dense, enter scattering timber, brs. E. and W.

78.30 Desc. 15 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the
ground, in a mound of stone, for cor. of secs. 25, 30,
31 and 36, marked on brass cap

T28N
R16W | R15W
S25 | S30
S36 | S31
1917

From which

A pinion, 6 ins. diam., brs. N.40 1/2° E., 63 lks. dist.,
marked T28N R15W S30 BT.

A cedar, 12 ins. diam., brs. S.73° E., 41 lks. dist.,
marked T28N R15W S31 BT.

A pinion, 8 ins. diam., brs. S.36 1/4° W., 145 lks. dist.,
marked T28N R16W S36 BT.

A pinion, 12 ins. diam., brs. N.55° W., 13 lks. dist.,
marked T28N R16W S25 BT.

Land, rolling.

Soil, rocky, 4th rate.

Timber, cedar and pinion.

Undergrowth, cat claw.

North bet. secs. 25 and 30.

Over rolling land, through dense timber and undergrowth.
Desc. 25 ft.

5.00 Draw, course NE. Asc. 85 ft.

38.30 Spur, slopes N.60° E. Desc. 70 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for 1/2 sec. cor., marked on brass cap

Survey of West Boundary of T. 28 N., R. 15 W.

Chains.

$\frac{1}{2}$
 S25 | S30
 1917

From which
 A cedar, 6 ins. diam., brs. S.42° E., 28 lks. dist.,
 marked $\frac{1}{2}$ S30 BT.
 A cedar, 6 ins. diam., brs. S.38 $\frac{1}{2}$ ° W., 47 lks. dist.,
 marked $\frac{1}{2}$ S25 BT.
 53.00 Draw, course NE. Thence over gently rolling land.
 75.50 Desc. 15 ft.
 78.00 Enter sagebrush flat, brs. E. and W.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the
 ground, in a mound of stone, for cor. of secs. 19, 24,
 25 and 30, marked on brass cap

T28N
 R16W | R15W
 S24 | S19
 S25 | S30
 1917

From which
 A cedar, 10 ins. diam., brs. N.9° E., 138 lks. dist.,
 marked T28N R15W S19 BT.
 A cedar, 36 ins. diam., brs. S.39 $\frac{1}{2}$ ° E., 396 lks. dist.,
 marked T28N R15W S30 BT.
 A cedar, 12 ins. diam., brs. S.21 $\frac{1}{2}$ ° W., 355 lks. dist.,
 marked T28N R16W S25 BT.
 A cedar, 8 ins. diam., brs. N.40° W., 198 lks. dist.,
 marked T28N R16W S24 BT.
 Land, rolling and gently rolling.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, scrub oak and manzanita.

2.00 North bet. secs. 19 and 24.
 17.50 Over level land, through scattering timber and dense
 31.70 undergrowth.
 37.10 Asc. 70 ft.
 40.00 Ridge, brs. E. and W. Desc. 50 ft.
 Draw, course E. Asc. 15 ft.
 Spur, slopes N.70° E. Desc. 30 ft.
 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for sec. cor., marked on brass cap

$\frac{1}{2}$
 S24 | S19
 1917

From which
 A cedar, 8 ins. diam., brs. N.30° E., 32 lks. dist.,
 marked $\frac{1}{2}$ S19 BT.
 A cedar, 16 ins. diam., brs. N.62° W., 47 lks. dist.,
 marked $\frac{1}{2}$ S24 BT.
 43.50 Enter sagebrush flat, brs. E. and W.
 46.50 Wash, 15 lks. wide, 2 ft. deep, course E.
 52.50 Leave flat, brs. E. and W. Enter dense timber. Asc. 45
 ft.
 61.70 Ridge, brs. E. and W. Desc. 30 ft.
 69.70 Leave dense, enter scattering timber, brs. E. and W. Thence
 over level land.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the
 ground, in a mound of stone, for cor. of secs. 13, 18,
 19 and 24, marked on brass cap

Survey of West Boundary of T. 28 N., R. 15 W.

Chains.

T28N	
R16W	R15W
S13	S18
S24	S19
1917	

From which
 A pinion, 14 ins. diam., brs. N.45 $\frac{1}{2}$ ° E., 88 lks. dist., marked T28N R15W S18 BT.
 A pinion, 12 ins. diam., brs. S.48° E., 53 lks. dist., marked T28N R15 W S19 BT.
 A cedar, 8 ins. diam., brs. S.60 $\frac{1}{2}$ ° W., 44 lks. dist., marked T28N R16W S24 BT.
 A cedar, 6 ins. diam., brs. N.23 $\frac{1}{2}$ ° W., 107 lks. dist., marked T28N R16W S13 BT.
 Land, level and rolling.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, sagebrush, scrub oak and manzanita.

North bet. secs. 13 and 18.
 Over level land, through dense timber and scattering undergrowth.

- 11.00 Leave level land, brs E. and W. Asc. 30 ft.
- 21.00 Ridge, brs. E. and W. Desc. 15 ft.
- 26.00 Thence over level land.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S13 S18	
1917	

From which
 A pinion, 6 ins. diam., brs. N.74 $\frac{1}{4}$ ° E., 16 lks. dist., marked $\frac{1}{4}$ S18 BT.
 A cedar, 10 ins. diam., brs. N.36 $\frac{1}{2}$ ° W., 21 lks. dist., marked $\frac{1}{4}$ S13 BT.

- 52.50 Draw, course S.70° E. Asc. 75 ft.
- 62.20 Ridge, brs. N.60° E. and S.60° W. Desc. 70 ft.
- 74.80 Draw, course E. Asc. 70 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap

T28N	
R16W	R15W
S12	S 7
S13	S18
1917	

From which
 A cedar, 4 ins. diam., brs. N.27 $\frac{1}{2}$ ° E., 63 lks. dist., marked T28N R15W S7 BT.
 A cedar, 5 ins. diam., brs. S.87 $\frac{1}{2}$ ° E., 110 lks. dist., marked T28N R15W S18 BT.
 A cedar, 6 ins. diam., brs. S.49° W., 150 lks. dist., marked T28N R16W S13 BT.
 A pinion, 6 ins diam., brs. N.44° W., 113 lks. dist., marked T28N R16W S12 BT.

Land, level and rolling.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, cat claw, scrub oak and sagebrush.

Chains.

North bet. secs. 7 and 12.
Over rolling land, through dense timber and scattering undergrowth.

- Asc. 55 ft.
- 12.00 Spur, slopes E. Desc. 45 ft.
- 22.30 Draw, course E. Asc. 50 ft.
- 32.00 Ridge, brs. E. and W. Desc. 295 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S12 | S 7
 1917

From which

- A cedar, 12 ins. diam., brs. S.7° E., 74 lks. dist., marked $\frac{1}{4}$ S7 BT.
- A pinion, 10 ins. diam., brs. S.62 $\frac{1}{2}$ ° W., 100 lks. dist., marked $\frac{1}{4}$ S12 BT.
- 58.40 Ravine, course N.40° W. Asc. 85 ft.
- 77.00 Desc. 25 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T28N
 R16W R15W
 S 1 | S 6
 S12 | S 7
 1917

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, cat claw, sagebrush and manzanita.

North bet. secs. 1 and 6.
Over mountainous land, through dense undergrowth and scattering timber.

- Desc. 240 ft.
- 14.00 Gulch, course W. Asc. 180 ft.
- 24.20 Spur, slopes W. Desc. 160 ft.
- 30.00 Ravine, course W. Asc. 315 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 1 | S 6
 1917

From which

- A pinion, 8 ins. diam., brs. S.45° E., 71 lks. dist., marked $\frac{1}{4}$ S6 BT.
- A pinion, 14 ins. diam., brs. S.17 $\frac{3}{4}$ ° W., 80 lks. dist., marked $\frac{1}{4}$ S1 BT.
- 42.00 Top of bluff, 50 ft. high, brs. NW. and SE.
- 46.90 Spur, slopes W. Desc. 320 ft.
- 51.00 Top of bluff, 40 ft. high, brs. E. and W. Continue descent.
- 57.20 Ravine, course W. Asc. 215 ft.
- 66.30 Spur, slopes W. Desc. 95 ft. Enter dense timber, brs. N. 40° W. and S.40° E.
- 81.03 Intersect Seventh Standard Parallel North, 7.37 chs. W. of the standard $\frac{1}{4}$ sec. cor. of sec. 31; T. 29 N., R. 15 W., which is an iron post, hereinbefore described..
At the point of intersection, set an iron post, 3 ft. long,

Survey of West Boundary of T. 28 N., R. 15 W.

Chains.

2 ins. diam., in a mound of stone, for closing cor. of Ts. 28 N., Rs. 15 and 16 W., marked on brass cap

T29N R15W
 S31
 S 1 S 6
 R16W R15W
 T28N
 C C
 1917

From which
 A cedar, 14 ins. diam., brs. S.35° E., 32 lks. dist., marked CC T28N R15W S6 BT.
 A pinion, 6 ins. diam., brs. S.54° W., 54 lks. dist., marked CC T28N R16W S1 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinion.
 Undergrowth, scrub oak, cat claw and manzanita.

Boundaries in that part of T.28 N., R.15 W., outside Hualpai Indian Reservation.

Latitudes, Departures, and Closing Errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	179.14				179.14
West boundary,	North,	481.03	481.03			
North boundary (7th. Std. Par. N.)	East,	145.14			145.14	
Hualpai Indian Reservation boundary,	S. 0°28' W.	38.67		38.67		.31
	South,	160.00		160.00		
	S. 0°51' W.	39.99		39.98		.59
	South, S. 40°00' E.	200.00 54.68		200.00 41.89	35.15	
Convergency,					.16	
Totals,			481.03	480.54	180.45	180.04
			480.54		180.04	
Error in latitude,			0.49			
Error in departure,					0.41	

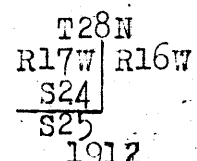
Survey of Completion of the East boundary of Township 28 North, Range 17 W. 175

Chains.

Survey executed on dates shown on diagrams on page 235 hereof by E. J. Lange, U.S. Surveyor, using Young and Sons' light mountain transit hereinbefore described, No. 8524

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris, at elongation, that it is in adjustment, I proceed to the survey of the completion of the east boundary of T. 28 N., R. 17 W., as follows:

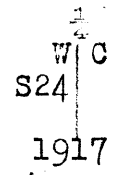
Begin at the cor. of secs. 19, 24, 25 and 30, which is a 3 in. iron post, with brass cap, set in a mound of stone, properly marked and witnessed by a mound of stone W. of cor. Change marking on brass cap, to read,



thus making this a cor. of secs. 24 and 25 only.

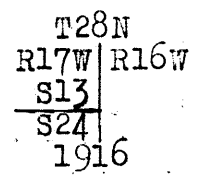
Thence, North, on true line on E. bdy. of sec. 24. Over mountainous land, thru scattering undergrowth. Ascend 75 ft.

- 4.20 Spur, slopes SW. Descend 70 ft.
- 9.20 Head of draw, course S. 60° W. Ascend 430 ft.
- 20.30 Granite cliff, 150 ft. high, brs. E. and W.
- 24.14 Rocky spur, slopes SW. Descend.
- 29.00 Ascend 890 ft.
- 39.53 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, supported by a mound of stone, for witness cor. to 1/4 sec. cor. of sec. 24, marked on brass cap,



and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

- 40.00 The true point for 1/4 sec. cor. falls on vertical cliff, where it cannot be established.
- 45.60 Spur, slopes W. Enter dense timber, brs. E. and W. Continue ascent.
- 61.00 Spur, slopes S. 60° W. Thence along W. slope.
- 70.80 Main ridge brs. N. 30° W. and S. 30° E. Descend 40 ft.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 13 and 24, marked on brass cap,

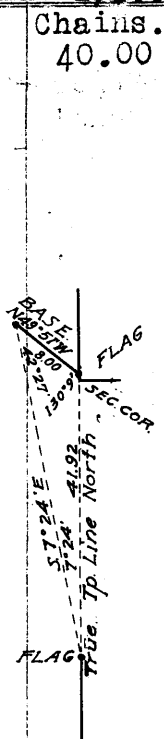


and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous. Soil, rocky, 4th rate. Timber, dense pinon and cedar. Undergrowth, scrub oak, buck brush and catclaw.

-
- North, on true line, on E. bdy. of sec. 13.
 - Over mountainous land, thru dense timber and undergrowth. Descend.
 - 7.10 Draw, course E. Ascend 65 ft.
 - 26.84 Spur, slopes E. Descend 455 ft.
 - 38.48 Spur, slopes E. Set a flag for triangulation point. Continue descent.

Survey of
 176 Completion of E. bdy. of Township 28 North, Range 17 West.



Chains.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 13, marked on brass cap,

S13
 |
 1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

It being impossible to chain from this point, I triangulate across draw, course N. 60° W., at approximately 72.00 chs. as follows:

I set a flag ahead, near the point for cor. of secs. 7, 12, 13 and 18, from which I measure a base N. 49° 51' W., 8.00 chs. -- impossible to secure longer base -- from the NW end of which the flag at the 38.48 ch. point brs S. 7° 24' E. The distance triangulated is given by

$$\frac{8.00}{\sin. 7^\circ 24'} = \frac{X}{\sin. 42^\circ 27'} \quad \text{or, by logarithms,}$$

$$\begin{aligned} \log. 8.00 &= 0.903090 \\ \log. \sin. 42^\circ 27' &= 9.829269 \\ \text{colog. } \sin. 7^\circ 24' &= 0.890099 \\ & \quad \quad \quad 1.622458 = \log. 41.92 \text{ chs.} \end{aligned}$$

$$41.92 + 38.48 = 80.40.$$

80.40 I measure south, 0.40 chs., and at
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 12 and 13, marked on brass cap,

T28N
 R17W | R16W
 S12
 S13

 1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, pine and cedar.
 Undergrowth, scrub oak and manzanita.

 North, on true line, on E. bdy. of sec. 12.
 Over mountainous land, thru. scattering timber and dense undergrowth.

Ascend 30 ft.
 5.50 Spur, slopes W. Descend 180 ft.
 23.20 Ascend 40 ft.
 26.01 Spur, slopes W. Descend 30 ft.
 29.20 Draw, course W. Ascend 45 ft.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 12, marked on brass cap,

S12
 |
 1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

44.72 Draw, course S. 30° W. Ascend 445 ft.
 78.00 Spur, slopes S. 60° W. Descend.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. in a mound of stone, for cor. of secs. 1 and 12, marked on brass cap,

Survey of Completion of E. bdy. of Township 28 North, Range 17 West. 177

Chains.

T28N	
R17W	R16W
S 1	
S12	
1916	

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pine and cedar.

Undergrowth, sage brush and yucca.

North, on a true line, on E. bdy. of sec. 1.

Over mountainous land, thru: scattering timber and dense undergrowth.

Descend.

- 6.10 Draw, course S. 60°W. Ascend 715 ft.
- 15.54 Rocky spur, slopes SW. Continue ascent.
- 38.80 Ridge, brs. W and SE. Descend 1030 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for ¼ sec. cor. of sec. 1, marked on brass cap,

S1	
1916	

from which,

A pinon, 12 ins. in diam., brs. S. 84°E., 42 lks. dist., marked ¼ S 6 B T.

A pinon, 12 ins. in diam., brs. S. 30°W., 13 lks. dist., marked ¼ S 1 B T.

71.45 Spur, slopes N/ 70°W. Continue descent.

80.00 Intersect 7th. Standard Parallel North, 6.65 chs. W. of the standard ¼ sec. cor., of sec. 31, T. 29 N., R. 16 W., herein before described.

At the point of intersection, set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone, for closing cor. of Ts. 28 N., Rs. 16 and 17 W., marked on brass cap,

T29N R16W	
S31	
S 1	S 6
R17W	R16W
T28N	
CC	
1916	

and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinon and cedar.

Undergrowth, catclaw, scrub oak and sage brush.

Resurvey of part of West bdy. of Township 28 North, Range 16 West, and Survey of that part of same line hereinbefore described as completion of East bdy. of Township 28 North, Range 17 West.

Chains.

Resurvey and survey executed on dates shown on diagrams on pages 239 and 243 hereof, by S. Frank Walters and James C. Hooper, U.S. Transitmen, using respectively, Buff solar transit No. 9985, and Young and Sons' light mountain transit No. 8489, hereinbefore, described.

Initials "S.F.W." and "J. C.H." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by S. Frank Walters and James C. Hooper, U.S. Transitmen.

S.F.W.

From the cor. of Ts. 27 & 28 N., Rs. 16 & 17 W., a 3 in. iron post, with brass cap, properly set, marked & witnessed as described by the surveyor general,

N. 0° 4' E., on a true line, on W. bdy. of sec. 31.

Over level land, thru scattering brush.

39.00 Foot of slope, brs. N. 70° E. & S. 70° E. Leave level land. Ascend 30 ft. over SW. slope, to

40.03 Intersect original $\frac{1}{4}$ sec. cor., a 1 in. iron post, with brass cap, set in a mound of stone, marked for secs. 31 and 36, and witnessed by a mound of stone W. of post.

Change marking on brass cap, to read

$\frac{1}{4}$ S36

1912

thus changing the cor. to refer to sec. 36, T. 28 N. R. 17 W. only. Thence,

North, on true line, continuing measurement.

Over mountainous land; ascend 385 ft., over SW. slope, to

50.70 Rocky spur slopes W. from NE. Thence along W. slope.

58.20 Descend 125 ft. over NW. slope.

66.40 Rocky gulch, course S. 40° W., near head; Asc. 320 ft. over S. slope.

76.60 Spur, slopes SW. Descend 70 ft. to

79.02 Intersect the closing cor. of secs. 30 & 31, described in Book "0"

Land, level, rolling and mountainous.

Soil, rocky and gravelly, 3rd and 4th rate.

No timber. Undergrowth, scattering sage brush and cacti.

From closing cor. of secs. 30 and 31, T. 28 N., R. 16 W., described in Book "0,"

North, on true line, on W. bdy. of sec. 30.

Over mountainous land. Descend 20 ft.

0.81 Intersect the original cor. of secs. 25, 30, 31 and 36, a 3 in. iron post, with brass cap, set in mound of stone, properly marked and witnessed by a mound of stone, west of post. Change markings on brass cap to read,

T28N
R17W | R16W
S25
S36

1912

thus changing the cor. to refer to secs. 25 and 36, T. 28 N., R. 17 W. only. Thence,

N. 0° 3' E., on a true line, continuing measurement.

Descend 5 ft. to

1.00 Gulch, course W. Ascend 35 ft.

6.50 Spur, slopes W. Descend 65 ft.

10.30 Gulch, course S. 50° W. Ascend 820 ft., over SW. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in mound of stone, for reestablished $\frac{1}{4}$ sec. cor. of sec. 30, marked on brass cap,

$\frac{1}{4}$ S30

1917

and raise mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Continue line and measurement.

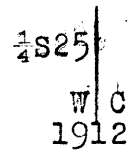
Ascend 30 ft. to

40.92 (40.11 chs. N. of reestablished cor. of secs. 25 and 36, T. 28 N., R. 17 W.) The true point for reestablished $\frac{1}{4}$ sec. cor. of sec. 25 in gulch, course SW., near head. Asc. 520 ft. to

Resurvey of part of West bdy. of T. 28 N., R. 16 W., and survey of that part of same line hereinbefore described, as Completion of East boundary of Township 28 North, Range 17 West. 1179

Chains.
50.24

Intersect witness cor. originally set to witness the $\frac{1}{4}$ sec. cor. of secs. 25 and 30, a 1 in. iron post with brass cap, set in a mound of stone, properly marked and witnessed by mound of stone W. of post. Change marking on brass cap to read,



thus changing the cor. to a witness cor. referring to the reestablished $\frac{1}{4}$ sec. cor. of sec. 25 only, from which it brs. N. 0° 3' E., 9.32 chs. dist.

53.60

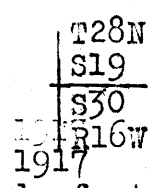
Ascend 120 ft. over S. slope. Spur, slopes W. Descend 640 ft. over N. slope, thru scattering timber.

67.20

Gulch, course N. 70° W. Ascend 155 ft. over SE. slope, to

80.00

Set an iron post 3 ft. long, 2 ins. in diam., on bedrock, in a mound of stone, for reestablished cor. of secs. 19 and 30, T. 28 N., R. 16 W., only, marked on brass cap,



and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinon and cedar.
Undergrowth, scrub oak, scrub mahogany and manzanita.

From reestablished cor. of secs. 19 and 30, T. 28 N., R. 16 W., N. 0° 3' E., on a true line, on W. bdy. of sec. 19. Over mountainous land. Ascend.

1.03

Intersect the reestablished cor. of secs. 24 and 25, originally cor. of 4 secs., but changed as hereinbefore described in the notes of survey of Completion of East bdy. of T. 28 N., R. 17 W.

SURVEY OF PART OF W. BDY. OF T. 28 N., R. 16 W.

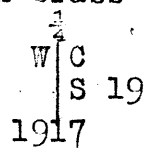
As the remainder of this Tp. bdy. was previously surveyed as E. bdy. of T. 28 N., R. 17 W., as hereinbefore described, the following notes describe an additional running of the line merely for the purpose of describing the cors. set thereon to refer to secs, and quarter secs. in T. 28 N., R. 16 W. only, with their relation to the previously established cors. Measurement of topographical features is omitted, and the difference in alinement and measurement found between the existing cors. is well within limits; therefore, make no change in their positions.

Beginning at the reestablished cor. of secs. 24 and 25, hereinbefore described, which is 1.03 chs. N. 0° 3' E. of the reestablished cor. of secs. 19 and 30.

Thence, Northerly on W. bdy. of sec. 19, continuing measurement from reestablished cor. of secs. 19 and 30.

38.55

Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor. of sec. 19, T. 28 N., R. 16 W., marked on brass cap,



and raise a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. S. F. W.

180 Survey of Part of West bdy. of Township 28 North, Range 16 West.

- Chains.
- J.C.H.
- 40.00 True point for $\frac{1}{4}$ sec.cor.of sec.19, T.28 N., R.16 W.inaccess-
ible.
- 40.55 Witness cor. to $\frac{1}{4}$ sec.cor.of sec.24, hereinbefore de-
scribed.
- 41.02 True point for $\frac{1}{4}$ sec.cor.of sec.24, T.28 N., R.17 W.inac-
cessible.
- 80.00 Set an iron post 3 ft.long, 2 ins. in diam., in a mound of
stone for cor.of secs.18 and 19, T.28 N., R.16 W., mark-
ed on brass cap,

T28N
S18
S19
R16W
1917

from which,

- A juniper, 8 ins.in diam., brs.N.79 $\frac{1}{2}$ °E., 53 lks.
dist., marked T 28 N R 16 W S 18 B T.
- A pinon, 6 ins. in diam., brs.S.32°E., 135 lks.
dist., marked T 28 N R 16 W S 19 B T.

Thence,
Northerly on W. bdy. of sec. 18.

- 1.00 The cor.of secs.13 and 24, hereinbefore described.
- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 10 ins. in
the ground, supported by a mound of stone, for $\frac{1}{4}$ sec.cor.
of sec.18, T.28 N., R.16 W.marked on brass cap,

S18
1917

and raise a mound of stone, 3 ft. base, 2 ft.high, E.
of cor.

- 41.10 The $\frac{1}{4}$ sec.cor.of sec.13, T.28 N., R.17 W., hereinbefore de-
scribed.
- 80.00 Set an iron post 3 ft.long, 2 ins. in diam., in a mound
of stone, on top of a boulder, 30x20x10 ft. above
ground, for cor.of secs. 7 and 18, T.28 N., R.16 W.,
marked on brass cap,

T28N
S 7
S18
R16W
1917

and raise a mound of stone 3 ft. base, 2 ft. high, E.of
cor.

Thence,
Northerly on W. bdy.of sec. 7.

- 1.05 The cor.of secs.12 and 13, T.28 N., R.17 W., hereinbefore
described.
- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., in a mound of
stone on top of a boulder 10x15x8 ft. above ground, for
 $\frac{1}{4}$ sec.cor.of sec.7, T.28 N., R.16 W., marked on brass
cap,

S7
1917

and raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 2 ft.high, E.of
cor.

- 41.00 The $\frac{1}{4}$ sec.cor.of sec.12, T.28 N., R.17 W., hereinbefore de-
scribed.
- 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
the ground, for cor.of secs.6 and 7, T.28 N., R.16 W.,
marked on brass cap,

1917

Chains

	T28N
	S 6
	S 7
	R16W
1917	

from which,
 A pinon, 6 ins. in diam., brs. N. 62 $\frac{1}{2}$ ° E., 211 lks. dist.,
 marked T 28 N R 16 W S 6 B T.
 A pinon, 8 ins. in diam., brs. S. 82 $\frac{1}{2}$ ° E., 299 lks.
 dist., marked T 28 N R 16 W S 7 B T.

Thence,
 Northerly, on W. bdy. of sec. 6.

- 1.07 The cor. of secs. 1 and 12, T. 28 N., R. 17 W., hereinbefore described.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., of sec. 6, T. 28 N., R. 16 W., marked on brass cap,

	$\frac{1}{4}$
	S 6
1917	

from which,
 A pinon, 6 ins. in diam., brs. N. 16 $\frac{3}{4}$ ° E., 49 lks.
 dist., marked $\frac{1}{4}$ S 6 B T.

- 41.00 The $\frac{1}{4}$ sec. cor. of sec. 1, T. 28 N., R. 17 W., hereinbefore described.
- 81.00 The closing cor. of Ts. 28 N., Rs. 16 and 17 W. on the 7th. Standard Parallel N. hereinbefore described.

J.C.H.

RESURVEY OF PART OF THE WEST BDY. OF T. 28 N., R. 17 W.

E.J.L.
 From the $\frac{1}{4}$ sec. cor., bet. secs. 1 and 6, on the W. bdy. of T. 28 N., R. 17 W., which is an iron post, 1 in. in diam., properly set, marked and witnessed as described by the surveyor general,

- 40.33 North, on a true line, bet. secs. 1 and 6, (north half). Topographical features not measured. Intersect the Seventh Standard Parallel North; 5.16 chs. W. of the standard $\frac{1}{4}$ sec. cor. of sec. 31, T. 29 N., R. 17 W., which is an iron post established by me, as hereinbefore described.

At point of intersection,
 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of T. 28 N., Rs. 17 and 18 W., marked on brass cap,

	T29N	R17W
	S 31	

	S 1	S 6
	R18W	R17W
	T28N	
	C C	
1916		

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor.
 Land, rolling.
 Soil, gravelly, 3rd rate.
 No timber.
 Undergrowth, scattering cactus, greasewood and sage brush.
 E. J. L.

Boundaries of Township 28 North, Range 16 West.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	240.00				240.00
	N.89°57'W.	40.00	.04			40.00
	S.89°58'W.	120.30		.07		120.30
	N.88°32'W.	40.26	1.03			40.25
	N.89°49'W.	38.95	.13			38.95
West boundary,	N.0°4'E.	40.03	40.03			.05
	North,	39.80	39.80			
	N.0°3'E.	80.22	80.22			.07
	North,	319.97	319.97			
North boundary, (7th.Std. Par.N.)	East,	479.28			479.28	
East boundary,	South,	481.03		481.03		
Convergency,					.52	
	Totals,		481.22	481.10	479.92	479.50
			481.10		479.50	
	Error in latitude,		0.12			
	Error in departure,				0.42	

Boundaries of that portion of T.28 N., R.17 W. subdivided under
this group.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional boundary.	N.89°57'W.	80.04	.08			80.04
	N.89°58'W.	80.00	.05			80.00
	N.0°1'W.	400.00	400.00			.12
North boundary (7th.Std.Par.N.)	East,	160.88			160.88	
East boundary,	South,	319.97		319.97		
	S.0°3'W.	80.22		80.22		.08
Convergency,					.14	
	Totals,		400.13	400.19	161.02	160.24
				400.13	160.24	
	Error in latitude,		0.06			
	Error in departure,				0.78	

Survey of West Boundary of T. 28 N., R. 18 W.

Chains.

Survey commenced Feb. 2, 1916, and executed by G. Frank Walters, U. S. Transitman, using Young and Sons' light mountain transit No. 8489, hereinafter described.

Knowing from recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of the West bdy. of T. 28 N., R. 18 W.

At 8 hrs. 4 m., a.m., l.m.t., I set off 35° 46' N. on the lat. arc; 17° 1' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 27 and 28 N., Rs. 18 and 19 W., which is an iron post, hereinafter described.

Thence I run

North bet. secs. 31 and 36. Over rolling land, through scattering undergrowth.

16.70
22.12
40.00

Asc. 135 ft. to Spur, slopes SE. Desc. NE. slope, 70 ft. to Wash, course SE. Asc. 190 ft. to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap 1916 on S. rim; S36 1/4 in W. and S31 in E. half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

41.50
46.59
55.95
64.15
68.00
68.95
76.70
80.00

Spur, slopes E. Desc. 90 ft. to Wash, course NE. Asc. 115 ft. to Desc. 135 ft. to Asc. 75 ft. to Desc. 20 ft. to Asc. 130 ft. to Desc. 30 ft. to Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap 1916 on S. rim; T28N in N. half; R19W S25 in NW., R18W S30 in NE., S31 in SE. and S36 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rolling. Soil, 2nd and 4th rate. No timber. Undergrowth, greasewood, yucca, cat claw and cacti. Some bunch grass.

North bet. secs. 25 and 30. Over rolling land, through scattering undergrowth.

1.50
5.00
7.25
9.75
11.15
14.89
23.00
31.47
34.50
40.00

Asc. to Spur, slopes SE. Desc. 70 ft. to Asc. 35 ft. to Desc. 25 ft. to Asc. 30 ft. to Desc. 50 ft. to Wash, course SE. Asc. 45 ft. to Spur, slopes SE. Desc. 65 ft. to Wash, course SE. Road in wash, brs. NW. and SE. Asc. 40 ft. to Spur, slopes SE. Desc. 25 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap 1916 on S. rim; S25 1/4 in W. and

Chains.

S30 in E. half;
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 45.00 Thence over gently rolling land.
 56.98 Prospect hole brs. W. 1 ch. dist.
 60.10 Road, brs. NW. and SE.
 61.98 Wash, course E. Asc. 120 ft. to
 80.00 Spur, slopes SE.
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

1916 on S. rim;
 T28N in N. half;
 R19W S24 in NW.,
 R18W S19 in NE.,
 S30 in SE. and
 S25 in SW. quadrant;

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
 Soil, 2nd and 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, cat claw and cacti.
 Some bunch grass.

Feb. 3, 1916. At this cor., I observed the true meridian; and an apparent meridian, I observed the true meridian; the resulting error is 55' 41" E.
 Feb. 3, 1916.

Feb. 3, 1916.
 North bet. secs. 19 and 24.
 Over rolling land, through scattering undergrowth.
 Desc. 70 ft. to
 9.90 Asc. 120 ft.
 20.07 Road, brs. NW. and SE.
 27.70 Spur, slopes SW. Desc. 105 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

1916 on S. rim;
 S24 $\frac{1}{4}$ in W. and
 S19 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.90 Asc. 60 ft. to
 59.85 Desc. 35 ft. to
 64.80 Asc. 95 ft. to
 69.60 Spur, slopes NW. Desc. 140 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
 Soil, 2nd and 4th rate.
 No timber.
 Undergrowth, yucca, greasewood, cat claw and cacti.
 Some bunch grass.

North bet. secs. 13 and 18.
 Over rolling land, through scattering undergrowth.

Survey of West Boundary of T. 28 N., R. 18 W.

Chains.

2.00 Asc. 35 ft. to
 29.70 Spur, slopes W. Desc. 155 ft. to
 34.35 Asc. 125 ft. to
 40.00 Desc. 100 ft.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S13 $\frac{1}{4}$ in W. and
 S18 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 40.20 Wash, course NW. Asc. 25 ft. to
 47.50 Desc. 105 ft. to
 54.75 Asc. 45 ft. to
 58.20 Desc. 150 ft. to
 77.51 Wash, course NW. Asc. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass cap
 1916 on S. rim;
 T28N in N. half;
 R19W S12 in NW.,
 R18W S7 in NE.,
 S18 in SE. and
 S13 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling.
 Soil, 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, cat claw and cacti.

North bet. secs. 7 and 12.
 Over rolling and mountainous land, through scattering undergrowth.
 Desc. to
 7.40 Wash, course W. Asc. 80 ft. to
 12.85 Desc. 55 ft. to
 19.80 Asc. 20 ft. to
 22.30 Desc. 85 ft. to
 29.65 Asc. 80 ft. to
 33.45 Desc. 30 ft. to
 39.40 Asc. 40 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 1916 on S. rim;
 S12 $\frac{1}{4}$ in W. and
 S7 in E. half;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 43.50 Spur, slopes SW. Desc. 125 ft. to
 47.71 Rocky gulch, course W. Asc. 60 ft. to
 53.55 Desc. 165 ft. to
 60.10 Asc. 35 ft. to
 67.50 Desc. 30 ft. to
 70.00 Asc. 150 ft. to
 76.60 Desc. 70 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap
 1916 on S. rim;
 T28N in N. half;
 R19W S11 in NW.,
 R18W S6 in NE.,
 S7 in SE. and
 S12 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Survey of West Boundary of T. 28 N., R. 18 W.

Chains.

Land, rolling and mountainous.
Soil, 4th rate.
No timber.
Undergrowth, greasewood, yucca, cat claw and cacti.

North bet. secs. 1 and 6.
Over broken land, through scattering undergrowth.
Desc. 120 ft. to
5.00 Asc. 20 ft. to
8.00 Desc. 30 ft. to
9.60 Asc. 110 ft. to
19.40 Spur, slopes NW. Desc. 485 ft. to
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
1916 on S. rim;
S1 $\frac{1}{4}$ in W. and
S6 in E. half;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
62.73 Enter wash, course N. Comes from SW.
70.00 Continue along W. side of wash.
80.49 Intersect the Seventh Standard Parallel North, 2.95 chs. W. of the standard $\frac{1}{4}$ sec. cor. of sec. 36, T. 29 N., R. 18 W., which is an iron post, hereinbefore described.
At the point of intersection, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for closing cor. of Tps. 28 N., Rs. 18 and 19 W., marked on brass cap
1916 on S. rim;
T29N R18W S36 in N. and
CC T28N in S. half;
R18W S6 in SE. and
R19W S1 in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor.
Land, rolling and broken.
Soil, 4th rate.
No timber.
Undergrowth, greasewood, yucca, cat claw and cacti.
Some grass.

Mar. 10, 1916.

Boundaries of T. 28 N., R. 18 W.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary.	S. 89° 55' W.	477.96		.68		477.96
West Boundary.	North.	480.49	480.49			
North Boundary (7th Std. Par.)	East.	477.79			477.79	
East Boundary.	South.	480.33		480.33		
Convergency.					.52	
Totals.			480.49	481.01	478.31	477.96
				480.49	477.96	
Error in latitude				.52		
Error in departure					.35	

Survey of Portion of the West Boundary of T. 28 N., R. 19 W.

Chains.

Survey executed on dates shown on diagram on page 235 hereof, by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit No. 8524, hereinbefore described.

Knowing from recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of a portion of the W. bdy. of T. 28 N., R. 19 W. From the cor. of Tps. 27 and 28 N., Rs. 19 and 20 W., which is an iron post, hereinbefore described, delay, U. S. Surveyor, as set forth hereinbefore, I ran

North bet. secs. 31 and 36.
 Over gently rolling W. slope, through scattering undergrowth.

7.80 Wash, course S.70° W.
 32.30 Wash, course S.80° W.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
 1916 on S. rim;
 S36 1/4 in W. and
 S31 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

59.30 Wash, course W. Asc. 45 ft. to
 64.30 Spur, slopes W. Desc. to
 77.60 Draw, course SW.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap
 1916 on S. rim;
 T28N in N. half;
 R20W S25 in NW.,
 R19W S30 in NE.,
 S31 in SE. and
 S36 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, gently rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, yucca, rabbit brush and cacti.

North bet. secs. 25 and 30.
 Over rolling and broken land, through scattering undergrowth.

4.90 Draw, course SW.
 14.80 Wash, course SW. Asc. 140 ft. to
 34.70 Ridge, brs. NE. and SW. Desc. to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap
 1916 on S rim;
 S25 1/4 in W. and
 S30 in E. half;
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Asc. to
 44.00 Spur, slopes W. Desc. 95 ft. to
 51.50 Wash, course SW.
 55.00 Wash, course S.30° W. Asc. 50 ft. to
 59.10 Ridge, brs. N.30° E. and S.30° W. Desc. 55 ft. to
 64.60 Wash, course SW. Asc. 40 ft. to
 72.00 Ridge, brs. N.30° W. and S.30° E. Desc. 85 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap
 1916 on S. rim;
 T28N in N. half;
 R20W S24 in NW.,
 R19W S19 in NE.,
 S30 in SE. and

188 Survey of Portion of the West Boundary of T. 28 N., R. 19 W.

Chains.

S25 in SW. quadrant;
 and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 and, rolling and broken.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, yucca, rabbit btush and cacti.

North bet. secs. 19 and 24.
 Over rolling and gently rolling land, through scattering
 undergrowth.

Asc. 30 ft. to
 7.50 Low ridge, brs. N.20° E. and S. 20° W. Desc. slightly to
 11.90 Wash, course S.80° W. Thence over gently rolling land.
 38.80 Wash, course N.75° W.
 40.00 Set an iron post, 3 ft. long, 3 in. diam., 26 ins in the
 ground, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 S24 ¼ in W. and
 S19 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.

54.10 Wash, course S.30° W.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 13, 18, 19 and 24, marked on
 brass cap

1916 on S. rim;
 T28N in N. half;
 R20W S13 in NW.,
 R19W S18 in NE.,
 S19 in SE. and
 S24 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.

Land, rolling and gently rolling.
 Soil, 3rd rate.
 No timber.
 Undergrowth, greasewood, yucca, rabbit brush and cacti.

North bet. secs. 13 and 18.
 Over gently rolling land, through scattering undergrowth.

5.20 Wash, course W.
 28.10 Wash, course W.
 40 00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., marked on brass cap
 1916 on S. rim;
 S13 ¼ in W. and
 S18 in E. half;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.

42.60 Wash, course W.
 69.60 Wash, course W. Asc. slightly to
 72.30 Spur, slopes S.70° W. Desc. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 7, 12, 13 and 18, marked on
 brass cap

1916 on S. rim;
 T28N in N.: half;
 R20W S12 in NW.,
 R19W S7 in NE.,
 S18 in SE. and
 S13 in SW. quadrant;

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.

Survey of portion of West bdy. of Township 28 North, Range 19 West.

Chains.

Land, gently rolling.
Soil, 2nd and 3rd rate.
No timber.
Undergrowth, greasewood, rabbit brush and cacti.

Boundaries of that portion of Township 28 North, Range 19 West, subdivided under this group.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	N. 89° 57' W.	477.94	.49			477.94
West boundary,	North,	320.00	320.00			
Subdivisional boundary,	S. 89° 53' E. N. 0° 3' W.	77.70 160.00		.16	77.70	
North boundary, (7th. Std. Par. N.)	East,	400.40			400.40	
East boundary,	South,	480.49		480.49		
Convergency.					.49	
<u>Totals,</u>			480.49	480.65	478.59	478.08
				480.49	478.08	
<u>Error in latitude,</u>					.16	
<u>Error in departure,</u>						.51

Boundaries of that portion of Township 28 North, Range 20 West, subdivided under this Group.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	160.00				160.00
Subdivisional boundary,	N. 0° 1' W. S. 89° 44' E. N. 89° 52' E.	320.00 80.00 80.02	320.00			.09
East boundary,	South,	320.00		320.00		
Convergency,					.12	
<u>Totals,</u>			320.19	320.37	160.14	160.09
				320.19	160.09	
<u>Error in latitude,</u>					.18	
<u>Error in departure,</u>						.05

Survey of West Boundary of T. 29 N., R. 15 W.

Chains.

Surveyed executed on dates shown on diagram on page 235 hereof, by E. J. Lange, U.S. Surveyor, using Young and Sons' light mountain transit No. 8524, hereinbefore described.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation that it is in adjustment, proceed to the survey of the W. bdy. of T. 29 N., R. 15 W.

From the standard cor. of Ts. 29 N., Rs. 15 and 16 W., on 7th standard Parallel North (hereinbefore described, North bet. secs. 31 and 36.

Over mountainous land, through dense undergrowth. Desc. 160 ft.

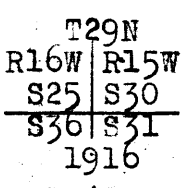
- 9.00 Draw, course NE. Asc. 155 ft.
- 24.40 Spur, slopes E. Desc. 160 ft.
- 33.62 Draw, course S.70° E. Asc. 465 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap



And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

- 45.20 Cliff, 75 ft. high, brs. NW. and S.60° E. In this cliff is a cave with smoked roof, 75 ft. long, 25 ft. wide, with an entrance E. and SW. Continue ascent.

- 57.80 Spur, slopes E. Desc. 230 ft.
- 64.75 Ravine, course E. Asc. 50 ft.
- 71.25 Spur, slopes E. Desc. 360 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap



And raise a mound of stone; 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.
Soil, sandy and rocky, 4th rate.
No timber.
Undergrowth, yucca, cactus, sagebrush, greasewood.

North bet. secs. 25 and 30. Over mountainous land, through scattering undergrowth: Desc. 35 ft.

- 0.81 Draw, course E. Asc. 95 ft.
- 4.90 Spur, slopes E. Desc. 160 ft.
- 12.85 Asc. 30 ft.
- 21.00 Desc. 360 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

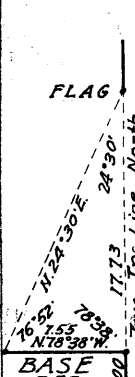


And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

From this cor., I triangulate as follows:
Set a flag ahead on line, and measure a base N.78° 38' W.,

Survey of West Boundary of T. 29 N., R. 15 W.

Chains.



7.55 chs. from the W. end of which the flag brs. N.24° 30' E. The distance triangulated is given as follows:

$$\frac{7.55}{\sin. 24^\circ 30'} = \frac{X}{\sin. 76^\circ 52'}$$

or, by logarithms,

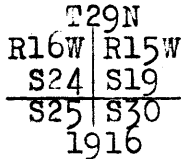
log. 7.55	=	0.877947
log. sin. 76° 52'	=	9.983489
colog. sin. 24° 30'	=	0.382273

1.248709 = log. 17.73 chs.;

the vertical angle from cor. to flag is +11° 20'. The approximate topography triangulated over is as follows:

- 48.10
- 57.73
- 65.00
- 80.00

Ravine, course N.70° W. Road in ravine, brs. N.70° W. and S. 70° E. Asc. 290 ft.
 Top of cliff, brs. E. and W. Continue ascent.
 Spur, slopes W. Desc. 175 ft.
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap



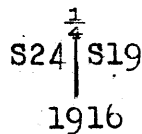
And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca, cactus, sagebrush and greasewood.

North bet. secs. 19 and 24.
 Over mountainous land, through scattering undergrowth.
 Desc. 80 ft.

- 5.00
- 22.30
- 40.00

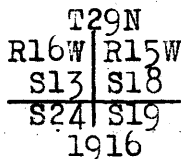
Draw, course SW. Asc. 305 ft.
 Spur, slopes SW. Desc. 355 ft.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap



And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

- 61.40
- 73.98
- 80.00

Asc. 90 ft.
 Ridge, brs. N.70° E. and SW. Desc. 95 ft.
 Wash, course N.30° W. Continue descent.
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap



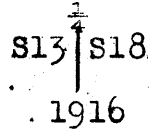
And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, yucca, cactus, sagebrush and greasewood.

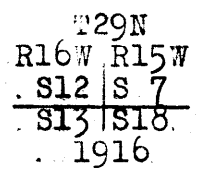
Survey of West Boundary of T. 29 N., R. 15 W.

Chains

North bet. secs. 13 and 18.
 Over rolling and mountainous land, through scattering undergrowth.
 Asc. 10 ft.
 4.00 Desc. 25 ft.
 5.00 Asc. 155 ft.
 9.64 Ridge, brs. E. and W. Desc. 205 ft.
 23.66 Wash, course W. Asc. 205 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

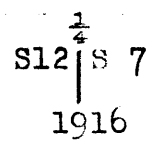


And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 44.73 Ridge, brs. NW. and SE. Desc. 65 ft.
 60.00 Asc. 120 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap

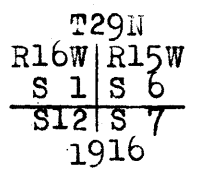


And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling and mountainous.
 Soil, sandy, rocky loam, 3rd rate.
 No timber.
 Undergrowth, yucca, cactus and sagebrush.

North bet. secs. 7 and 12.
 Over rolling land, through scattering undergrowth.
 Desc. 180 ft.
 19.74 Draw, course S.60° E. Asc. 145 ft.
 35.00 Ridge, brs. E. and W. Desc. 75 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 44.93 Draw, course E. Asc. 260 ft.
 60.00 Ridge, brs. E. and W. Desc. 185 ft.
 74.00 Wash, course W. Asc. 65 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 1, 6, 7 and 12, marked on brass cap



From which
 A juniper, 18 ins. diam., brs. S.71° W., 92 lks. dist., marked T29N R16W S12 BT.
 No other trees within limits. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

194 Survey of West Boundary of T. 29 N., R. 15 W.

Chains.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper.
Undergrowth, yucca, cactus, greasewood and sagebrush.

North bet. secs. 1 and 6.
Over rolling and mountainous land, through scattering
timber and undergrowth.

Asc. 270 ft.

9.42 Ridge, brs. E. and W. Desc. 75 ft.

19.90 Wash, course E. Asc. 55 ft.

27.94 Ridge, brs. N.75° E. and S.75° W. Desc. 115 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 1 | S 6
 1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, W.
of cor.

49.82 Wash, 5 chs. wide, course N.70° E. Asc. 390 ft.

75.75 Ridge, brs. N.80° E. and SW. Desc. 95 ft.

78.87 Wash, course N.50° E. Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for cor. of Ts. 29 and 30 N., Rs. 15 and 16 W.,
marked on brass cap

T30N
 R16W | R15W
 S36 | S31

 S 1 | S 6
 T29N
 1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, S.
of cor.

Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, a few scrub cedar trees.
Undergrowth, yucca, cactus, sagebrush and greasewood.

Chains.

Survey executed on dates shown on diagram, on pages 235 and 241 hereof, by E. J. Lange, U.S. Surveyor, and D. R. Averill, U.S. Transitman, using respectively, Young and Sons' light mountain transit Nos. 8524 and 8489, hereinbefore described.

Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment. Initials "E. J. L." and "D. R. A." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by E. J. Lange, U.S. Surveyor, and D. R. Averill, U.S. Transitman.

From the cor. of Ts. 29 and 30 N., Rs. 15 and 16 W., which is an iron post, hereinbefore described, East, on a true line, bet. secs. 6 and 31. Over mountainous land, thru scattering undergrowth. Descend 260 ft.

- 15.00 Draw, course N. 60° E. Ascend 60 ft.
- 25.00 Ridge, brs. N. 75° E and S. 75° W. Descend 50 ft.
- 35.00 Wash, course SE. Ascend 115 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap,

$$\frac{1}{4} \frac{S \ 31}{S \ 6}$$
 1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

- 51.00 Spur, slopes S. Descend 65 ft.
- 60.15 Ascend 10 ft.
- 62.70 Descend 140 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T30N
 | R15W
 S31 | S32
 S 6 | S 5
 T29N
 1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, catclaw, cactus and sagebrush.

East, on a true line, bet. secs. 5 and 32. Over rolling land, thru scattering undergrowth. Descend 140 ft.

- 30.00 Center of valley, 10 chs. wide, course N. 20° E. Ascend 30 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap,

$$\frac{1}{4} \frac{S \ 32}{S \ 5}$$
 1916

and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor.

- Descend 50 ft.
- 55.00 Ascend 65 ft.
- 71.00 Descend 75 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

Survey of part of the N hdy. of T. 29 N., R. 15 West.

Chains.

T30N
R15W
S32 | S33
S 5 | S 4
T29N
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, cactus, greasewood and sagebrush.

17.84 East, on a true line, bet. secs. 4 and 33.
Over rolling land, thru. scattering undergrowth.
Descend 65 ft.
Intersect Hualpai Indian Reservation Bdy., 65 lks. N. of the 8½ mile cor., which is a limestone, 6x8x8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
At the point of intersection, set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 4 and 33, marked on brass cap,

T30N
R15W
S33 | H I R
S 4
T29N
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scrub oak and cactus.

Boundaries of that portion of Township 29 North, Range 15 West, situated outside the Hualpai Indian Reservation.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (7th. Std. Par. N.)	West,	177.77				177.77
West boundary,	North,	480.00	480.00			
North boundary,	East,	177.84			177.84	
East boundary, Hualpai Indian Reservation Bdy.	South, S. 0°28' W.	479.91 1.22		479.91 1.22		.01
Convergency,					.20	
Totals,			480.00	480.13	178.04	177.78
				480.00	177.78	
Error in latitude,				1.13		
Error in departure,					.26	

Survey of West bdy. of Township 29 North, Range 16 West. 197

Chains.

Survey executed on dates shown on diagrams on pages 235 and 243 hereof, by E. J. Lange, U.S. Surveyor, and S. Frank Walters, U.S. Transitman, using, respectively, Young and Sons' light mountain transits Nos. 8524 and 8489, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment. Initials "E. J. L." and "S. F. W." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by E. J. Lange, U.S. Surveyor, and S. Frank Walters, U.S. Transitman.

S. F. W.

From the standard cor. of Ts. 29 N., Rs. 16 and 17 W., on 7th Standard Parallel N., hereinbefore described, North, bet. secs. 31 and 36.

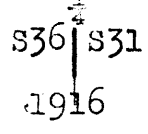
Over level land, thru scattering undergrowth.

5.00 Descend gradually, 100 ft.

22.50 Road brs. E and W.

25.00 Thence over level land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,



Dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level and gently rolling.

Soil, rocky, 2nd rate.

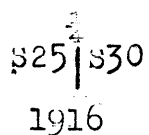
Timber, none.

Undergrowth, yucca, black brush, and cacti.

North, bet. secs. 25 and 30.

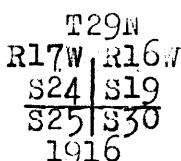
Over level land, thru scattering undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,



Dig pits 18x18x12 ins., in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level.

Soil, rocky, 2nd and 3rd rate.

No timber. Undergrowth, yucca, black brush and cactus.

S. F. W.

Chains.

E.J.L.

North, bet. secs. 19 and 24.

Over level land, thru. scattering undergrowth.

6.15 Road brs. N. 60° E. to Duncan Ranch and S. 60° W. to Gold Basin.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S24 | S19

1916

and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T29N
R17W | R16W
S13 | S18
S24 | S19
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, level.

Soil, sandy loam, 1st rate.

No timber.

Undergrowth, rabbit brush, yucca and cactus.

North, bet. secs. 13 and 18.

Over level land, thru. scattering undergrowth.

18.00 Wash, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 19 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S13 | S18

1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

50.00 Wash, course NW.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap,

T29N
R17W | R16W
S12 | S 7
S13 | S18
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, level.

Soil, rocky, 2nd and 3rd rate.

No timber.

Undergrowth, catclaw, greasewood, and Spanish bayonet.

Survey of West Boundary of T. 29 N., R. 16 W.

Chains.

North bet. secs. 7 and 12.
 Over level and rolling land, through scattering undergrowth.
 7.10 Wash, course NW.
 30.00 Desc. 35 ft.
 39.20 Wash, course NW. Thence over level land.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S12 | S 7
 1916

55.00 Desc. 90 ft.
 70.00 Asc. 60 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T29N
 R17W | R16W
 S 1 | S 6

 S12 | S 7
 1916

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, level and rolling.
 Soil, rocky, 2nd and 3rd rates.
 No timber.
 Undergrowth, yucca, rabbit brush, cactus, cat claw and Spanish bayonet.

North bet. secs. 1 and 6.
 Over level land, through scattering undergrowth.
 17.50 Wash, course NW.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 1 | S 6
 1916

55.00 Asc., gradually.
 63.50 Spur, slopes N.30° W. Desc. gradually.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Ts. 29 and 30 N., Rs. 16 and 17 W., marked on brass cap

T30N
 R17W | R16W
 S36 | S31

 S 1 | S 6
 T29N
 1916

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
 Land, level.
 Soil, 2nd and 3rd rates.
 No timber.
 Undergrowth, yucca, rabbit brush, cactus and greasewood.

E. J. L.

Survey of North bdy. of Township 29 North, Range 16 West 201

Chains.

Survey executed on dates shown on diagram on pages 239 and 241 hereof, by James C. Hooper and D.R. Averill, U.S. Transitman, using Young and Sons' light mountain transits Nos. 8524 and 8489, respectively. Initials "J.C.H." and "D.R.A." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by James C. Hooper and D.R. Averill, U.S. Transitman.

J.C.H. and D.R.A.

From the cor. of Ts. 29 and 30 N., Rs. 15 and 16 W., which is an iron post, hereinbefore described, West, on a random line, along the N1 bdy. of the Tp., setting temp. 2 sec. and sec. cors. at intervals of 40.00 chs., and at 479.74 chs., intersect W. bdy. of Tp., 42 lks. S. of the cor. of Ts. 29 and 30 N., Rs. 16 and 17 W., which is an iron post, hereinbefore described; the falling answers to a correction of 0°3' or 7 lks. N. per mile, counting from the NE. cor. of the Tp.

J.C.H. and D.R.A.

J.C.H.

S. 89°57'E., on a true line, bet. secs. 6 and 31. Over rolling land, thru. scattering undergrowth. Descend 45 ft.

- 3.65 Wash, 10 lks. wide, 2 ft. deep, course N. 10° W. Ascend 90 ft.
- 17.22 Spur, slopes N. Descend 65 ft.
- 24.05 Wash, course N. Ascend.
- 29.76 Spur, slopes N. Road brs. N. and S. Descend 30 ft.
- 34.74 Draw, course N. Ascend 35 ft.
- 39.74 Ridge, brs. N. and S.

Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4	S 31
	S 6
	1917

and raise a mound of stone, 2 1/2 ft. base, 2 ft. high, N. of cor.

Descend.

- 45.00 Ascend 25 ft.
- 56.56 Ridge, brs. N. 20° E. and S. 20° W. Descend 225 ft.
- 74.48 Wash, 2 chs. wide, 4 ft. deep, course N. Ascend.
- 79.74 Set an iron post 3 ft. long, 3 ins. in diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T30N	R16W
S31	S32
S 6	S 5
T29N	
1917	

and raise a mound of stone 2 1/2 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy and gravelly, 3rd rate.

No timber.

Undergrowth, yucca, greasewood, catclaw and cactus.

S. 89°57'E., on a true line, bet. secs. 5 and 32. Over rolling land, thru. scattering undergrowth. Ascend 250 ft.

- 24.08 Spur, slopes N. Descend 125 ft.
- 31.74 Wash, 30 lks. wide, 2 ft. deep, course N. Ascend 30 ft.
- 39.49 Spur, slopes N. Descend 15 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4	S 32
	S 5
	1917

Survey of North bdy. of Township 29 North, Range 16 West.

Chains

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

42.49 Wash, 20 lks. wide, 12 ft. deep, course N. 20° W. Ascend 145 ft.

62.97 Ridge, crs. N. 10° W. and S. 10° E. Descend.

79.85 Ravine, course S. 60° W. Comes from S. 60° E. Ascend.

80.00 Set an iron post 3 ft. long, 3 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T30N R16W
S32 | S33
S 5 | S 4
T29N
1917

and raise mound of stone, 4 ft. base, 3 ft. high, W. of cor. Land, rolling.

Soil, sandy and gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, yucca, greasewood, catclaw and cactus.

S. 89° 57' E., on a true line, bet. secs. 4 and 33. Over rolling land, thru. scattering undergrowth. Ascend 30 ft.

4.08 Spur, slopes S. 20° W. Descend.

4.58 Ravine, course S. 40° W. Ascend 260 ft.

33.40 Spur, slopes N. Descend 70 ft.

39.09 Draw, course N. 30° W. Ascend 90 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 33
S 4
1917

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

52.65 Spur, slopes N. 20° W. Descend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 3, 4, 33 and 34, marked on brass cap,

T30N R16W
S33 | S34
S 4 | S 3
T29N
1917

and raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.

Land, rolling.

Soil, sandy and gravelly, 3rd rate.

No timber.

Undergrowth, yucca, catclaw and cactus.

S. 89° 57' E., on a true line, bet. secs. 3 and 34. Over rolling land, thru. scattering undergrowth.

5.00 Wash, 2 chs. wide, 2 ft. deep, course N. 30° W.

32.53 Ravine, course S. 70° W. Ascend.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 34
S 3
1917

and raise a mound of stone, 3 1/2 ft. base, 3 ft. high, N. of

Survey of North Boundary of T. 29 N., R. 16 W.

Chains.

of cor.
 65.00 spur, slopes S.45° W. Desc.
 79.90 Foot of cliffs, 200 ft. high, br. N. and S.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T30N R16W
 S34 | S35
 S 3 | S 2
 T29N
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and mountainous.
 Soil, sandy and rocky, 3rd and 4th rates.
 Timber, none.
 Undergrowth, yucca, cat claw and cactus.

J.C.H.

D.R.A.
 S.89° 57' E., on a true line, bet. secs. 2 and 35.
 Over gently rolling land, through dense timber and scattering undergrowth.
 40.00 set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

S35
 ¼ S 2
 1917

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 45.00 Leave timber, brs. N. and S. Thence across level valley, slopes N.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap

T30N R16W
 S35 | S36
 S 2 | S 1
 T29N
 1917

From which
 A juniper, 8 ins. diam., brs. N.37½° E., 106 lks. dist., marked T30N R16W S36 BT.
 A pinion pine, 10 ins. diam., brs. S.60° E., 80 lks. dist., marked T29N R16W S1 BT.
 No other trees within limits. Dig pits, 18 X 18 X 12 ins. in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, rolling and level.
 Soil, sandy and gravelly, 3rd rate.
 Timber, cedar and juniper.
 Undergrowth, cat claw and cactus.

S.89° 57' E., on a true line, bet. secs. 1 and 36.
 Over mountainous land, through dense timber and scattering undergrowth.
 Asc. 120 ft.
 23.35 Ridge, brs. N. and S. Desc. 250 ft.
 39.25 Wash, course N. Asc. 170 ft.
 40.00 set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ¼ sec. cor., marked on brass cap

204 Survey of North Boundary of T. 29 N., R. 16 W.

Chains.

$\frac{1}{4}$ S36
S1
1917

And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 57.75 Spur, slopes N. Desc. 50 ft.
- 64.20 Wash, course N.10° W. Asc. 130 ft.
- 69.05 Ridge, brs. N. and S. Desc. 70 ft.
- 80.00 The cor. of Ts. 29 and 30 N., Rs. 15 and 16 W. Land, mountainous. Soil, rocky, 4th rate. Timber, juniper and cedar. Undergrowth, cactus and cat claw.

D.R.A.

Boundaries of T. 29 N., R. 16 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary. (7th Std. Par. N.)	West.	480.00				480.00
West Boundary.	North.	480.00	480.00			
North Boundary.	S.89°57'E.	479.74		.42	479.74	
East Boundary.	South.	480.00		480.00		
Convergency					.53	
Totals.			480.00	480.42	480.27	480.00
				480.00	480.00	
Error in latitude.			.42			
Error in departure					.27	

Survey of West Boundary of T. 29 N., R. 17 W.

Chains.

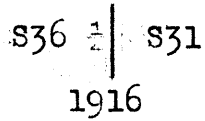
Survey executed on dates shown on diagram on page 235 hereof by Mr. J. Lange, U.S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described.

Knowing from recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, that it is in adjustment, I proceed to the survey of the West Boundary of T. 29 N., R. 17 W.

From the standard cor. of T. 29 N., Rs. 17 and 18 W. (7th. Std. Parallel N.) which is an iron post, hereinbefore described.

8.20
18.80
40.00

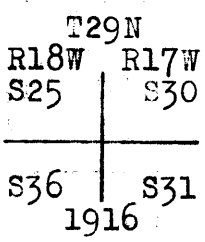
North bet. secs. 31 and 36.
Over gently rolling land, through scattering undergrowth.
Wash, course N.70° W.
Wash, course N.70° W.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

44.50
80.00

Wash, course W.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap

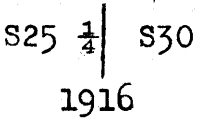


and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, gently rolling.
Soil, rocky; 2nd rate.
No timber.
Undergrowth, greasewood, rabbit brush, yucca and cacti.

0.60
24.70
40.00

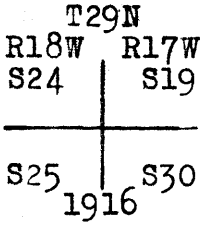
North bet. secs. 25 and 30.
Over gently rolling land, through scattering undergrowth.
Wash, course N.70° W.
Wash, course N.70° W.
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

45.00
60.00
80.00

Wash, course N.70° W.
Wash, course N.70° W. Asc. gradual slope, 40 ft. to
Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

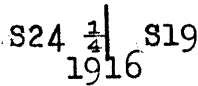


206 Survey of West Boundary of T. 29 N., R. 17 W.

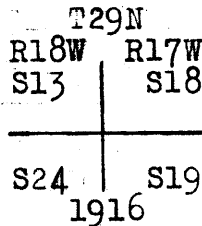
Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, gently rolling.
 Soil, rocky; 2nd rate.
 No timber.
 Undergrowth, greasewood, rabbit brush, yucca and cacti.

North bet. secs. 19 and 24.
 Over gently rolling land, through scattering undergrowth.
 Asc. 60 ft. to
 10.00 Spur, slopes N.60° W. Desc. slightly to
 37.20 Wash, course S.70° W. Asc. slightly to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 ground, for ¼ sec. cor., marked on brass cap

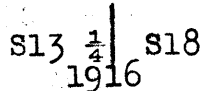


and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Desc. to
 56.80 Wash, course W. Asc. to
 71.90 Spur, slopes W. Desc. to
 74.80 Wash, course N.70° W. Asc. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 13, 18, 19 and 24, marked on
 brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling and gently rolling.
 Soil, sandy and rocky; 2nd and 3rd rate.
 No timber.
 Undergrowth, greasewood, yucca, rabbit brush and cacti.

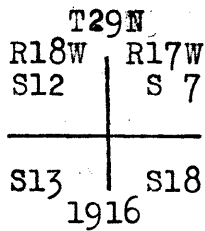
North bet. secs. 13 and 18.
 Over rolling land, through scattering undergrowth.
 Desc. 80 ft. to
 9.30 Wash, course W. Thence over gently rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground, in a mound of stone, for ¼ sec. cor., marked on
 brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 41.80 Wash, course W.
 48.60 Wash, course W.
 70.60 Wash, course W.
 79.50 Draw, course W.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 12 ins. in the
 ground, in a mound of stone, for cor. of secs. 7, 12, 13
 and 18, marked on brass cap

Survey of West Boundary of T. 29 N., R. 17 W.

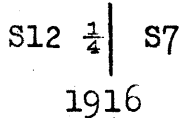
Chains.



and raise a mound of stone, 2 ft. base, 1½ ft. high.
 W. of cor.
 Land, rolling and gently rolling.
 Soil, sandy and rocky; 2nd and 3rd rate.
 No timber.
 Undergrowth, greasewood, rabbit brush, ocotillo and cacti.

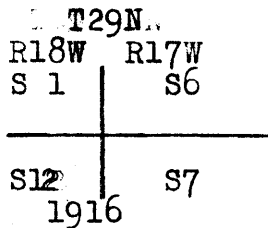
9.00
 24.80
 27.80
 39.20
 40.00

North bet. secs. 7 and 12.
 Over rolling land, through scattering undergrowth.
 Wash, course W.
 Wash, course W. Asc. to
 Spur, slopes N.60° W. Desc. to
 Wash, course N.60° W. Asc.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
 stone, for ¼ sec. cor., marked on brass cap



44.40
 67.40
 70.10
 78.60
 80.00

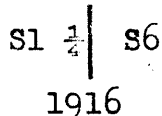
and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Spur, slopes N.60 W. Desc. to
 Wash, course N.70° W. Asc. to
 Spur, slopes NW. Desc. to
 Wash, course NW. Asc. to
 Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the
 ground, in a mound of stone, for cor. of secs. 1, 6, 7
 and 12, marked on brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, rolling.
 Soil, sandy and rocky; 2nd and 3rd rate.
 No timber.
 Undergrowth, greasewood, rabbit brush and cacti.

26.60
 40.00

North bet. secs. 1 and 6.
 Over rolling land, through scattering undergrowth.
 Wash, course N.70° W.
 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
 ground, in a mound of stone, for ¼ sec. cor., marked on
 brass cap



55.00

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Wash, course W.

208

Survey of
West Boundary of T. 29 N., R. 17 W.

Chains.

62.55
80.00

Road, brs. E. to Lost Basin Mines and W. to main road.
Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in the
ground, in a mound of stone, for cor. of Ts. 29 and 30
N., Rs. 17 and 18 W., marked on brass cap

T30N	
R18W	R17W
S36	S31
S 1	S 6
T29N	
1916	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
S. of cor.

Land, rolling.

Soil, sandy, rocky loam; 2nd and 3rd rate.

No timber.

Undergrowth, greasewood, rabbit brush and cacti.

Chains

Survey commenced Apr. 13, 1916, and was completed with this
Survey executed on dates shown on diagram on page 235 here-
of, by E. J. Lange, U. S. Surveyor, using Young and Sons'
light mountain transit, No. 8532, hereinbefore described.

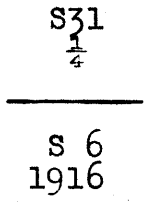
Knowing from recent and repeated tests of this instrument
on a meridian established by observations on Polaris at
elongation, that it is in adjustment, I proceed to the
survey of the North Boundary of T. 29 N., R. 17 W.

From the cor. of Ts. 29 and 30 N., Rs. 16 and 17 W., which
is an iron post, hereinbefore described,

West on a random line, along the N. bdy. of T. 29 N., R.
17 W., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals
of 40.00 chs.; and at 479.60 chs., intersect the W. bdy.
of T. 30 N., R. 17 W., 28 lks. N. of the cor. of Ts.
29 and 30 N., Rs. 17 and 18 W., which is an iron post,
hereinbefore described. The falling answers to a correct-
ion of $0^{\circ} 2'$, of 4 lks. S. per mile, counting from the
NE. cor. of the Tp.; therefore I run

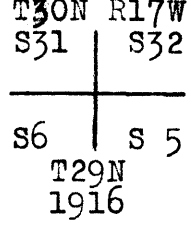
N. $89^{\circ} 58'$ E., on a true line, bet. secs. 6 and 31.
Over rolling and mountainous land, through scattering under-
growth.

Desc. to
0.80 Wash, course NW. Asc. 110 ft. to
22.60 Desc. slightly to
23.60 Wash, course NW. Asc. 215 ft.
39.60 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor.

59.00 Desc. slightly to
59.40 Wash, course NW. Asc. 565 ft. to
79.60 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for cor. of secs. 5, 6, 31 and 32, marked on
brass cap



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, rolling and mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, cat claw and cacti.

N. $89^{\circ} 58'$ E., on a true line, bet. secs. 5 and 32.
Over mountainous land, through scattering undergrowth.

Asc. 90 ft. to
2.15 Spur, slopes SW. Desc. 120 ft. to
12.50 Asc. 65 ft. to
15.85 Desc. 30 ft. to
16.25 Asc. 130 ft. to
21.20 Desc. 35 ft. to
26.15 Asc. 300 ft. to
35.17 Ridge, brs. NW. and SE. Desc. 230 ft.

Survey of
North Boundary of T. 29 N., R. 17 W.

Chains.
40.00

Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S32
 $\frac{1}{4}$

S 5
1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

46.30

Asc. 80 ft. to

47.40

Spur, slopes NE. Desc. 175 ft. to

62.30

Wash, course NW. Asc. 60 ft. to

65.30

Desc. 155 ft. to

80.00

Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 4, 5, 32 and 33, marked on brass cap

T30N R17W
S32 | S33
—+—
S5 | S4
T29N
1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

No timber.

Undergrowth, greasewood, cat claw and cacti.

27.30

N.89° 58' E., on a true line, bet. secs. 4 and 33.

Over rolling land, through scattering undergrowth.

Asc. 315 ft. to

33.90

Spur, slopes SW. Desc. to

40.00

Wash, course SW. Road in wash, brs. NE. and SW. Asc. 195 ft.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S33
 $\frac{1}{4}$

S 4
1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

46.80

Ridge, brs. N.20° W. and S.20° E. Desc. 130 ft.

64.90

Road, brs. N.80° W. and S.80° E.

80.00

Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 3, 4, 33 and 34, marked on brass cap

T30N R17W
S33 | S34
—+—
S 4 | S 3
T29N
1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, rocky; 4th rate.

Survey of North Boundary of T. 29 N., R. 17 W.

chains.

No timber.
Undergrowth, greasewood and cacti.

13.00
40.00

N.89° 58' E., on a true line, bet. secs. 3 and 34.
Over rolling land, through scattering undergrowth.
Asc. to
Spur, slopes N.20° E. Desc. 110 ft. to
Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the
ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on
brass cap

S34
 $\frac{1}{4}$

S 3
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

42.40
77.60
80.00

Asc. to
Spur, slopes N.20° E. Desc. 30 ft. to
Wash, course N. Thence over rolling land.
Set an iron post, 3ft. long, 3 ins. diam., 20 ins. in the
ground, for cor of secs. 3, 2, 34 and 35, marked on
brass cap

T30N R17W
S34 | S35

S 3 | S 2
T29N
1916

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.

Land, rolling.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, cat claw, rabbit brush, yucca and
cacti.

39.60
40.00

N.89° 58' E., on a true line, bet. secs. 2 and 35.
Over rolling land, through scattering undergrowth
Wash, course NE.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S35
 $\frac{1}{4}$

S 2
1916

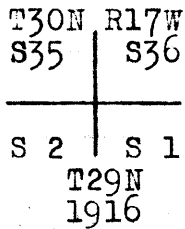
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

51.50
55.00
61.70
80.00

Road, brs. N. and S. to Gold Basin.
Wash, course N.
Wash, course N.20° W.
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of
stone, for cor. of secs. 1, 2, 35 and 36, marked on
brass cap

Survey of
North Boundary of T. 29 N., R. 17 W.

Chains.



and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor.
Land, rolling.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, yucca, rabbit brush, cat claw and
cacti.

N.89° 58' E., on a true line, bet. secs. 1 and 36.
Over rolling land, through scattering undergrowth.
Asc. 50 ft. to
17.50 Spur, slopes N. Desc. 65 ft. to
25.20 Asc. 60 ft. to
33.00 Spur, slopes N. Desc. 70 ft.
40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of
stone, for ¼ sec. cor., marked on brass cap

S36
¼

S 1
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
44.00 Wash, course N. Asc. 180 ft. to
73.20 Spur, slopes N.30° E. Desc. to
75.00 Asc. 35 ft. to
80.00 The cor. of T. 29 and 30 N., Rs. 16 and 17 W.
Land, rolling.
Soil, rocky; 4th rate.
No timber.
Undergrowth, greasewood, rabbit brush, cat claw, yucca and
cacti.

Boundaries of T. 29 N., R. 17 W.

Latitudes, departures and closing errors.

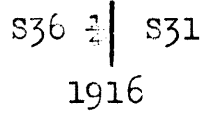
Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South Boundary (7th Std. Par. N.)	West.	480.00				480.00
West Boundary.	North	480.00	480.00			
North Boundary	N.89°58'E.	479.60	.28		479.60	
East Boundary.	South.	480.00		480.00		
Convergency.					.53	
Totals.			480.28	480.00	480.13	480.00
			480.00		480.00	
Error in latitude			.28			
Error in departure					.13	

Survey of South half of West Boundary of T. 29 N., R. 18 W. 213

Chains.

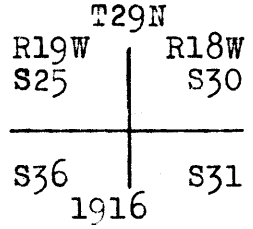
Survey executed on dates shown on diagram on page 243 hereof, by S. Frank Walters, U.S. Transitman, using Young and Sons' light mountain transit No. 8489, hereinbefore described. For lists of monuments, see page 243. From standard corner of T. 29 N., R. 18 and 19 W., on 7th. Standard Parallel North, hereinbefore described,

40.00 North bet. secs. 31 and 36. Over gently rolling land, through scattering undergrowth. Desc. slightly to Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/2 sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

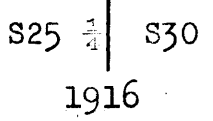
42.00 Wash, course E. Asc. 40 ft. to
47.00 Spur, slopes NE. Desc. 55 ft. to
54.90 Asc. 35 ft. to
66.85 Desc. 50 ft. to
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, gently rolling.
Soil, 2nd and 4th rate.
No timber.
Undergrowth, yucca, black brush, cat claw, greasewood and cacti.
Some bunch grass.

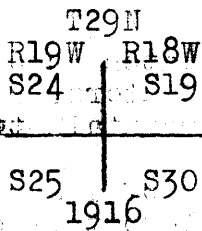
2 00 North bet. secs. 25 and 30.
38.00 Over gently rolling land, through scattering undergrowth. Wash, course NE
40.00 Wash, course NE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/2 sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

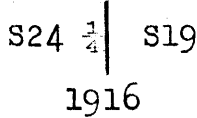
58.50 Asc. slightly to Spur, slopes SE. Desc. slightly to
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap

Chains.

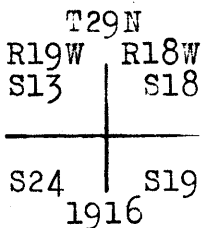


and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, gently rolling.
 Soil, 2nd and 4th rate.
 No timber.
 Undergrowth, yucca, greasewood, black brush, cat claw and
 cacti.
 Some bunch grass.

12.00 North bet. secs. 19 and 24.
 Over gently rolling land, through scattering undergrowth.
 Leave gently rolling, enter mountainous land. Desc. 65 ft.
 to
 25.50 Wash, course SE. Asc. 430 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for ¼ sec. cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Continue ascent to
 61.50 Ridge, brs. NW. and SE. Desc. 300 ft. to
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
 ground, for cor. of secs. 13, 18, 19 and 24, marked on
 brass cap



and raise a mound of stone, 2 ft. base, 1½ ft. high,
 W. of cor.
 Land, mountainous and gently rolling.
 Soil, 2nd and 4th rate.
 No timber.
 Undergrowth, greasewood, yucca, black brush, cat claw and
 cacti.
 Some bunch grass.

Survey of part of The North Boundary of T. 29 N., R. 18 W. 215

Chains.

Survey executed on dates, shown on diagram on page 235 hereof, by E. E. Langley, U. S. Surveyor, using Young and Sons' eight mountain transit, No. 8532, as hereinbefore described. See also Division of Reclamation, sec. 18, R. 18 W., for notes of adjustments, sec. 18, R. 18 W., Division of Reclamation, sec. 18, R. 18 W., 1916.

- From the cor. of Tps. 29 and 30 N., Rs. 17 and 18 W., which is an iron post, hereinbefore described, West on a true line, bet. secs. 1 and 36. Over rolling land, through scattering undergrowth. Desc. gradually.
- 23.40 Road, brs. N. 20° E. to Ibez Mine and U. S. M. M. No. 1, and S. 20° W.
- 33.35 Hualpai Wash, course N. Road in wash, brs. N. to Grigg's Ferry and S. to Gold Basin.
- 38.80 Draw, course NE. Asc. 155 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

S 36
1/4

S 1
1916

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
- 56.00 Spur, slopes S. Desc. gradually to
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in the ground, in a mound of stone, for cor. of secs. 1, 2, 35 and 36, marked on brass cap

T30N	R18W
S35	S36
S 2	S 1
T29N	
1916	

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Land, rolling.
Soil, sandy, stony loam; 2nd and 3rd rate.
No timber.
Undergrowth, greasewood, yucca, sagebrush and cacti.

- West on a true line, bet. secs. 2 and 35. Over rolling and mountainous land, through scattering undergrowth. Asc. 320 ft. to
- 32.30 Spur, slopes NE. Desc. 30 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

S 35
1/4

S 2
1916

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
- Asc. 55 ft. to
- 45.00 Spur, slopes N. 20° E. Desc. 115 ft. to
- 62.00 Wash, course N. Asc. 135 ft. to

216 Survey of part of The North Boundary of T. 29 N., R. 18 W.

Chains.

78.10 Spur, slopes NE. Desc. to
80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T30N R18W	
S34	S35
S 3	S 2
T29N	
1916	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, rolling.
Soil, rocky, sandy loam; 3rd and 4th rate.
No timber.
Undergrowth, greasewood, yucca, sagebrush and cacti.

7.65 West on a true line, bet. secs. 3 and 34.
40.00 Over mountainous land, through scattering undergrowth. Desc. 990 ft.
Wash, course N.70° E. Continue descent to
Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

S34
 $\frac{1}{4}$

S 3
1916

75.00 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.00 Desc. 140 ft. to
Asc. 35 ft. to
Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 3, 4, 33 and 34, marked on brass cap

T30N R18W	
S33	S34
S 4	S 3
T29N	
1916	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, mountainous.
Soil, sandy, rocky loam; 2nd and 3rd rate.
No timber.
Undergrowth, greasewood, yucca, sagebrush and cacti.

2.00 West on a true line, bet. secs. 4 and 33.
7.70 Over mountainous land, through scattering undergrowth.
20.80 Asc. 90 ft. to
40.00 Ridge, brs. N.20° E. and S.20° W. Thence along N. slope
Spur, slopes N. Desc. 60 ft. to
Spur, slopes NW. Desc. 150 ft.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Survey of part of The North Boundary of T. 29 N., R. 18 W.

Chains.

S33
1/2

S 4
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
N. of cor.

41.20 Gulch, course NW. Asc. 295 ft. to

60.60 Spur, slopes NW. Desc. 420 ft. to

77.20 Asc. to

78.50 Spur, slopes NW. Desc. to

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in the
ground, in a mound of stone, for cor. of secs. 4, 5,
32 and 33, marked on brass cap

T30N R18W
S32 | S33

S 5 | S 4
T29N
1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor.

Land, mountainous.

Soil, sandy, rocky loam; 3rd rate.

No timber.

Undergrowth, greasewood, yucca, sagebrush and cacti.

Boundaries of that portion of T. 29 N., R. 18 W.
subdivided under this group.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist. chs.	Latitudes.		Departures.	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary (7th Std. Par. N.)	West.	480.00				480.00
West Boundary.	North	240.00	240.00			
Subdivisional boundary.	S. 89° 57' E.	80.09		.07	80.09	
	N. 89° 51' E.	80.02	.21		80.02	
	N. 0° 3' W.	160.00	160.00			.14
	N. 0° 9' W.	80.18	80.18			.21
North Boundary.	East.	320.00			320.00	
East Boundary.	South.	480.00		480.00		
Convergency.					.44	
Totals.			480.39	480.07	480.55	480.35
			480.07		480.35	
Error in latitude.			.32			
Error in departure.					.20	

Boundaries of that Portion of Township 29 North, Range 19
West, subdivided under this Group.

Latitudes, Departures and Closing Errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (7th. Std. Par. N.)	West,	400.00				400.00
Subdivisional Boundary,	N. 0° 3' W.	240.00	240.00			.21
	S. 89° 50' E.	79.80		.23	79.80	
	N. 89° 59' E.	80.02	.02		80.02	
	S. 89° 58' E.	79.92		.04	79.92	
	N. 89° 59' E.	80.03	.02		80.03	
	N. 89° 50' E.	80.00	.23		80.00	
East boundary,	South,	240.00		240.00		
Convergency,					.21	
Totals,			240.27	240.27	399.98	400.21
				240.27		399.98
Error in latitude.			0.00			
Error in departure.						0.23

Survey of West boundary of Township 30 North, Range 15 West. 219

Chains.

Survey executed on dates shown on diagrams on pages 235 and 241 hereof, by E.J. Lange, U.S. Surveyor, and D.R. Averill, U.S. Transitman, using respectively, Young and Sons light mountain transits Nos. 8524 and 8489, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment. Initials "E.J.L." and "D.R.A." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by E.J. Lange, U.S. Surveyor, and D.R. Averill, U.S. Transitman.

E.J.L.

From the cor. of Ts. 29 and 30 N., Rs. 15 and 16 W., which is an iron post, hereinbefore described, North, bet. secs. 31 and 36.

Over mountainous land, thru scattering timber and undergrowth.

Ascend 15 ft.

1.1.00 Ridge, brs. N. 60° E. and S. 60° W. Descend 120 ft.

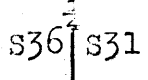
7.00 Draw, course N. 80° E. Ascend 130 ft.

14.50 Spur, slopes N. 75° E. Descend 345 ft.

24.50 Wash, course N. 20° E. Continue descent.

39.00 Draw, course S. 80° E. Ascend 340 ft.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{2}$ sec. cor., marked on brass cap,



1916

from which,

A juniper, 10 ins. in diam., brs. N. 41° E., 65 lks. dist., marked $\frac{1}{2}$ S 31 B T.

A juniper, 6 ins. in diam., brs. N. 25° W., 117 lks. dist., marked $\frac{1}{2}$ S 36 B T.

63.75 Wash, course S. 45° W. Continue ascent.

75.00 Top of plateau, brs. E and W. Thence over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,



1916

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, juniper, and pinon.

Undergrowth, catchlaw and cactus.

North, bet. secs. 25 and 30.

Over rolling plateau, thru scattering timber and undergrowth.

Descend 110 ft.

11.00 Wash, course N. 30° W. Ascend 65 ft.

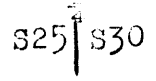
20.50 Top of cliff, brs. NW. and SE. Descend.

24.00 Draw, course E. Ascend 55 ft.

28.50 Top of cliff, brs. NW. and SE. Descend. 65 ft.

33.50 Draw, course E. Ascend 20 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{2}$ sec. for., marked on brass cap,



1916

220. Survey of West bdy. of Township 30 North, Range 15 West.

Chains.

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

45.00 Top of ascent, brs. NE. and SW. Thence over rolling land.

50.00 Leave rolling land, brs. NE. and SW. Descend 305 ft.

80.00 Draw, course N. 75° E. Trail in draw, brs. N. 75° E. to New Water Springs, and S. 75° W.

Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T30N
R16W R15W
S24 | S19

S25 | S30
1916

and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling and mountainous.
Soil, rocky and sandy loam, 4th rate,
Timber, scrub pinon and juniper.
Undergrowth, yucca and cactus.

North, bet. secs. 19 and 24.

Over mountainous land, thru. scattering undergrowth.
Ascend 240 ft.

16.50 Spur, slopes SW. Descend 15 ft.

19.50 Ascend 60 ft.

20.00 Low spur, slopes W. Continue along W. slope.

35.00 Spur, slopes NW. Descend 115 ft.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap,

S24 | S19
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

65.00 Draw, course N. 60° W. Ascend gradually, 60 ft.

75.00 Low spur, slopes W. Descend.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T30N
R16W R15W
S13 | S18

S24 | S19
1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling and mountainous.
Soil, rocky, gravelly loam, 4th rate,
No timber.
Undergrowth, yucca, cactus and greasewood.

North, bet. secs. 13 and 18.

Over rolling land, thru. scattering undergrowth.
Ascend 20 ft.

5.00 Spur, slopes NW. Descend 95 ft.

20.00 Ascend.

24.00 Ridge, brs. N 10° W. and S 15° E. Descend 345 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, in a mound of stone, for ¼ sec. cor., marked on brass cap,

Survey of West Boundary of T. 30 N., R. 15 W.

Chains.

1	
S13	S18
1916	

80.00 And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap

T30N	
R16W	R15W
S12	S 7
<hr/>	
S13	S18
1916	

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, rolling and mountainous.
 Soil, rocky, sandy loam, 2nd, 3rd and 4th rates.
 No timber.
 Undergrowth, yucca, cactus, sagebrush and greasewood.
 Fair growth of grass.

13.90 North bet. secs. 7 and 12.
 25.00 Over rolling land, through scattering undergrowth.
 40.00 Draw, course S.15° E. Asc. gradually.
 Low spur, slopes E. Desc. gradually.
 Set an iron post, 3 ft. long, 1 in diam., 10 ins. in the ground, in a mound of stone, for 1/4 sec. cor., marked on brass cap

1/4	
S12	S 7
1916	

50.00 And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Desc. 45 ft.
 55.00 Small draw, course NE. Asc. 80 ft.
 65.00 Desc. 30 ft.
 70.00 Draw, course E. Asc. 25 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T30N	
R16W	R15W
S 1	S 6
<hr/>	
S12	S 7
1916	

And raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
 Land, rolling.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca and greasewood.

E.J.L.

D.R.A.
 15.00 North bet. secs. 1 and 6.
 22.80 Over broken land, through scattering undergrowth.
 34.65 Desc. 70 ft.
 40.00 Wash, course E Asc. 95 ft.
 Ridge, brs. N.50° E. and S.50° W. Desc. 105 ft.
 Wash, course N.40° E. Asc. 110 ft.
 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1/4 sec. cor., marked on brass cap

222 Survey of West Boundary of T. 30 N., R. 15 W.

Chains.

$\frac{1}{2}$
 S 1 | S 6
 1916

45.00 Desc. 120 ft.
 59.80 Wash. course N.15° E. Asc. 180 ft.
 70.55 Ridge, brs. N.20° E. and S.20° W. Desc. 95 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, for cor. of Ts. 30 and 31 N., Rs. 15 and 16 W., marked on brass cap

T31N
 R16W | R15W
 S36 | S31
 S 1 | S 6
 T30N
 1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, yucca and greasewood.

D.R.A.

Chains.

Survey executed on dates shown on diagrams on pages 241 and 243 hereof, by D.R. Averill, and S. Frank Walters, U.S. Transitmen, using respectively, Young and Sons' light mountain transit No. 8489, and Buff solar transit No. 9985, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris demonstrate that they are in satisfactory adjustment.

Initials "D.R.A." and "S.F.W." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by D.R. Averill and S. Frank Walters, U.S. Transitmen.

D.R.A.

From the cor. of Ts. 30 and 31 N., Rs. 15 and 16 W., which is an iron post, hereinbefore described,

East, on a true line, bet. secs. 6 and 31.

Over mountainous land, thru scattering undergrowth. Ascend 155 ft.

10.00 Ridge, brs. NE. and SW. Descend 275 ft.

18.40 Wash, course NE. Ascend 620 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S31
 $\frac{1}{4}$ S 6
 1916

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

S.F.W.

D.R.A.

70.00 Ridge, brs. N. and S. Descend 240 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T31N R15W
 S31 | S32
 S 6 | S 5
 T30N
 1916

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, black brush, yucca, bayonet and cactus.

East, on a true line, bet. secs. 5 and 32.

Over mountainous land, thru scattering undergrowth. Descend.

10.00 Box canyon, course N. Ascend.

14.00 Right bank of box canyon.

Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for witness cor. to cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T31N R15W
 WC S31 | S32
 S 6 | S 5
 T30N
 1917

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

16.50 Top of ascent; descend 180 ft.

29.60 Ravine, course NW. Ascend 200 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S32
 $\frac{1}{4}$ S 5
 1917

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

43.70 Ridge, brs. N. and S. Descend 50 ft.

54.60 Draw, course S. 30° E. Ascend.

56.15 Descend 170 ft.

65.75 Ascend.

69.25 Rocky point slopes S. 30° E. Descend 265 ft.

75.50 Ravine, course NE. Ascend 70 ft.

224 Survey of part of North bdy. of Township 30 N., R. 15 W.

Chains. 80.00 Set an iron post 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T31N R15W
S32 | S33
S 5 | S 4
T30N
1917

and raise mound of stone, 2ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, cactus.

East, on a true line, bet. secs. 4 and 33. Over mountainous land, thru. scattering undergrowth. Ascend 40 ft.

3.50 Spur, slopes N. Descend 25 ft.

5.10 Gulch, course N. Ascend 130 ft.

9.12 Edge of box canyon, 200 ft. deep, course N. I triangulate from this point as follows: Set a flag ahead on line, on the Hualpai Indian Reservation Bdy., and measure a base 3.07 chs. N., from the N. end of which the flag at the 9.12 ch. point brs. S. 70° W. The dist. triangulated is given as follows: $\cot. 20^\circ \times 3.07 = 2.74748 \times 3.07 = 8.43$ chs., which added to 9.12 chs. makes

17.55 intersect Hualpai Indian Reservation Bdy., 1.22 chs. N. of the 2½ mile cor., which is a cross on a ledge, witnessed as described by the surveyor general.

At the point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, in a mound of stone for closing cor. of secs. 4 and 33, marked on brass cap,

T31N R15W | H
S33 | I
S 4 | R
T30N
1917

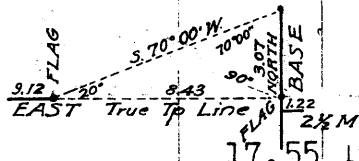
and raise mound of stone, 2ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, cactus.

S.F.W.

Boundaries of that portion of Township 30 N., R. 15 W. situated outside the Hualpai Indian Reservation.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes, Departures.			
			N.	S.	E.	W.
South boundary,	West,	177.84				177.84
West boundary,	North,	480.00	480.00			
North boundary,	East,	177.55			177.55	
East boundary,	South,	400.57		400.57		
(Hualpai Indian Reservation Boundary)	S. 0° 9' W.,	39.85		39.85		.10
	S. 0° 7' W.	39.90		39.90		.08
Convergency,					.20	
Totals,			480.00	480.32	177.75	178.02
				480.00		177.75
Error in latitude,				.32		
Error in departure,						.27



Chains.

Survey executed on dates shown on diagrams on pages 235 and 243 hereof, by E.J. Lange, U. S. Surveyor, and S. Frank Walters, U.S. Transitman, using respectively, Young and Sons' light mountain transits Nos. 8524 and 8489, hereinbefore described.

Recent and repeated tests of the instruments on a meridian established by observations on Polaris at elongation, demonstrate that they are in satisfactory adjustment. Initials "E.J.L." and "S.F.W." are inserted at the beginning and ending of those portions of the notes describing the respective surveys by E.J. Lange, U.S. Surveyor, and S. Frank Walters, U.S. Transitman.

E.J.L.

From the cor. of Rs. 29 and 30 N., Rs. 16 and 17 W., which is an iron post, hereinbefore described, North, bet. secs. 31 and 36.

40.00 Over gently rolling land, thru scattering undergrowth. Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S36 | S31

1916

And raise mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

55.00 Descend 90 ft.

80.00 Enter draw, course NW.

Set an iron post, 3 ft. long, 3 ins. in diam., 20 ins. in the ground, in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T30N
R17W | S16W
S25 | S30
S36 | S31
1916

and raise mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, rolling and gently rolling.

Soil, sandy and stony loam, 3rd and 4th rate.

No timber.

Undergrowth, yucca, cactus and catclaw.

North, bet. secs. 25 and 30.

Over rolling land, thru scattering undergrowth. Asc. 75 ft.

15.00 Descend 25 ft.

25.00 Thence over gently rolling land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S25 | S30

1916

dig pits 18x18x12 ins. N. & S. of post, 3 ft. dist., and raise mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

45.00 Descend 90 ft.

57.92 Draw, course N. 10° W. Ascend 70 ft.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 20 ins. in the ground, in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T30N
R17W | R16W
S24 | S19
S25 | S30
1916

and raise mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, rolling and gently rolling.

Soil, gravelly, sandy, rocky loam; 2nd rate.

No timber. Undergrowth, yucca, cactus and catclaw.

E.J.L.

226

Survey of part of West bdy of Township 30 North, Range 16 West.

Chains S.F.W.
 North, bet. secs. 19 and 24.
 Over rolling land, thru scattering undergrowth.
 Descend 165 ft.
 30.00 Ascend 40 ft.
 38.00 Thence over gently rolling land.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \hline S24 | S19 \end{array}$$

1916

and raise mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

50.00 Descend 55 ft.
 64.00 Wash, 4 chs. wide, course NE. Ascend.
 71.00 Thence over gently rolling land.
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 26 ins. in ground,
 for cor. of secs. 13, 18, 19 & 24, marked on brass cap,

$$\begin{array}{c} T30N \\ R17W | R16W \\ \hline S13 | S18 \\ S24 | S19 \\ \hline 1916 \end{array}$$

dig pits 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise
 mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, rolling and gently rolling.
 Soil, rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, yucca, bayonet, cactus, catclaw, greasewood and
 black brush.

North, bet. secs. 13 and 18 .
 Over rolling land, thru scattering undergrowth.
 Descend 25 ft.
 6.00 Right bank of wash, 5 chs. wide, course NE.
 9.75 Road, brs. NE. and SW.
 14.00 Left bank of wash, course NE. Ascend 110 ft.
 23.00 Descend 50 ft.
 34.00 Wash, course NE. Ascend 40 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \hline S13 | S18 \end{array}$$

1916

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. and
raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

47.00 Descend 30 ft.
 65.00 Ascend 50 ft.
 78.50 Descend 10 ft.
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the
 ground, for cor. of secs. 7, 12, 13 and 18, marked on brass
 cap,

$$\begin{array}{c} T30N \\ R17W | R16W \\ \hline S12 | S 7 \\ S13 | S18 \\ \hline 1916 \end{array}$$

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling and gently rolling.
 Soil, rocky, 3rd and 4th rate.
 No timber.
 Undergrowth, yucca, cactus, bayonet, catclaw, greasewood and
 black brush.

North, bet. secs. 7 and 12.
 Over rolling land, thru scattering undergrowth.
 10.00 Ascend 15 ft.
 13.00 Descend 20 ft.

Survey of part of the West bdy. of Township 30 North, Range 16 West.

Chains.

- 15.00 Ascend 55 ft.
- 31.45 Descend 25 ft.
- 35.00 Ascend 30 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S12 | S 7
1916

dig pits 18x18x12 ins., N. & S. of post, 3 ft. dist., and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

- 45.00 Descend 50 ft.
- 74.75 Right bank of wash, 7 chs. wide, course N. 10° E. Descend 45 ft.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,

T30N
R17W | S16W
S 1 | S 6
S12 | S 7
1916

and raise mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, rolling.
Soil, rocky, 3rd and 4th rate.
No timber.
Undergrowth, yucca, bayonet, cactus, greasewood and black-brush.

S.F.W.

Boundaries of that portion of T. 30 N., R. 16 W., subdivided under this group.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Départures.	
			N.	S.	E.	W.
South boundary,	N. 89° 57' W.	479.74	.42			479.74
West boundary,	North,	400.00	400.00			
Subdivisional boundary.	S. 89° 57' E.	79.22		.07	79.22	
	N. 89° 58' E.	79.88	.05		79.88	
	East,	159.74			159.74	
	S. 89° 41' E.	79.88		.44	79.88	
	S. 89° 54' E.	80.07		.14	80.07	
East boundary,	South	400.00		400.00		
Convergency,					.44	
Totals,			400.47	400.65	479.23	479.74
				400.47		479.23
Error in latitude,				.18		
Error in departure,						.51

Survey of part of the West bdy. of Township 30 North, Range 17 West.

Chains.											
	<p>Survey executed on dates shown on diagram on page 235 here- of, by E. J. Lange, U. S. Surveyor, using Young and Sons' light mountain transit No. 8532, hereinbefore described. From the cor. of Ts. 29 and 30 N., Rs. 17 and 18 W., which is an iron post, hereinbefore described, North, bet. secs. 31 and 36. Over rolling land, thru scattering undergrowth. Descend. Wash, course N. 70° W.</p>										
0.70	Wash, course N. 70° W.										
10.00	Descend 115 ft.										
35.85	Dim road, brs. NE. and SW.										
39.40	Wash, course N. 70° W. Ascend 30 ft.										
40.00	Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap,										
	<table border="1"> <tr><td>S36</td><td>S31</td></tr> <tr><td colspan="2">1916</td></tr> </table>	S36	S31	1916							
S36	S31										
1916											
	and raise mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.										
42.50	Top of ascent; descend 140 ft.										
50.60	Top of rim rock, brs. N. 20° E. and S. 20° W.										
58.79	Hualpai wash, course N. 20° E. Road in wash, brs. N. 20° E. to Grigg's Ferry, and S. 20° W. to Kingman.										
	Ascend gradually to										
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,										
	<table border="1"> <tr><td colspan="2">T30N</td></tr> <tr><td>R18W</td><td>R17W</td></tr> <tr><td>S25</td><td>S30</td></tr> <tr><td>S30</td><td>S31</td></tr> <tr><td colspan="2">1916</td></tr> </table>	T30N		R18W	R17W	S25	S30	S30	S31	1916	
T30N											
R18W	R17W										
S25	S30										
S30	S31										
1916											
	and raise mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.										
	Land, rolling.										
	Soil, rocky, 4th rate.										
	No timber.										
	Undergrowth; greasewood, rabbit brush, yucca and cacti.										

	North, bet. secs. 25 and 30.										
	Over rolling and mountainous land, thru scattering under- growth:										
10.00	Draw, course E. Ascend 120 ft. to										
35.00	Spur, slopes E. Descend 130 ft.										
40.00	Set an iron post, 3 ft. long, 1 in. in diam. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap;										
	<table border="1"> <tr><td>S25</td><td>S30</td></tr> <tr><td colspan="2">1916</td></tr> </table>	S25	S30	1916							
S25	S30										
1916											
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.										
45.70	Draw, course E. Ascend 175 ft. to										
55.10	Descend 115 ft. to										
64.75	Draw, course S. 70° E. Ascend 175 ft. to										
76.00	Spur, slopes E. Descend to										
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., on rocky ledge, in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,										
	<table border="1"> <tr><td colspan="2">T30N</td></tr> <tr><td>R18W</td><td>R17W</td></tr> <tr><td>S24</td><td>S19</td></tr> <tr><td>S25</td><td>S30</td></tr> <tr><td colspan="2">1916</td></tr> </table>	T30N		R18W	R17W	S24	S19	S25	S30	1916	
T30N											
R18W	R17W										
S24	S19										
S25	S30										
1916											
	and raise mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, W. of cor.										
	Land, rolling and mountainous.										
	Soil, rocky, 4th rate.										
	No timber.										
	Undergrowth, greasewood, yucca, rabbit brush and cacti.										

Boundaries of Township 30 North, Range 17 West.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	S.89°58'W.	479.60		.28		479.60
West boundary,	North,	160.00	160.00			
Subdivisional	N.89°51'E.	159.66	.42		159.66	
	N.89°58'E.	79.58	.04		79.58	
	N.0°2'W.	240.00	240.00			.14
	S.89°58'E.	80.06		.04	80.06	
	N.89°45'E.	79.70	.35		79.70	
	N.89°47'E.	79.98	.30		79.98	
East boundary,	South,	400.00		400.00		
Convergency,					.30	
Totals,			401.11	400.32	479.28	479.74
			400.32			479.28
Error in latitude,			0.79			
Error in departure,					0.46	

Boundaries of Township 30 North, Range 18 West.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	320.00				320.00
Subdivisional boundary.	N.0°3'W.	160.00	160.00			.14
	East,	80.00			80.00	
	N.89°47'E.	80.02	.30		80.02	
	S.89°57'E.	80.00		.07	80.00	
	East,	80.10			80.10	
East boundary,	South,	160.00		160.00		
Convergency,					.12	
Totals,			160.30	160.07	320.24	320.14
			160.07		320.14	
Error in latitude,			0.23			
Error in departure,					0.10	

230 Resurvey of part of west bdy. of Township 31 North, Range 15 West.

Chains.

Survey executed on dates shown on diagram on page 243 hereof, by S. Frank Walters, W. S. Transitman, using Buff solar transit No. 9985, hereinbefore described.

Recent and repeated tests of the instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in satisfactory adjustment.

From the cor. of Ts. 30 and 31 N., Rs. 15 and 16 W., which is an iron post, hereinbefore described,

North, bet. secs. 31 and 36.

Over mountainous land, thru, scattering undergrowth.

Ascend 80 ft.

12.00 Descend 340 ft.

24.00 Ravine, course E. Ascend 220 ft.

30.00 Spur, slopes N. 40° E. Descend 280 ft.

35.30 Ravine, course E. Ascend 160 ft.

40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S36 | S31

1917

and raise mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

46.90 Spur, slopes W. Descend 35 ft.

46.10 Gulch, course S. 40° W. Ascend.

51.80 Point of spur, slopes E. Descend.

52.80 Same gulch, course SE. Ascend 200 ft.

56.60 Spur, slopes W. Continue ascent.

64.40 Spur, slopes W. Descend 45 ft.

69.40 Gulch, course S. 70° W. Ascend 190 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., in a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T31N
R16W | R15W
S25 | S30
S36 | S31
1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, catclaw and cactus.

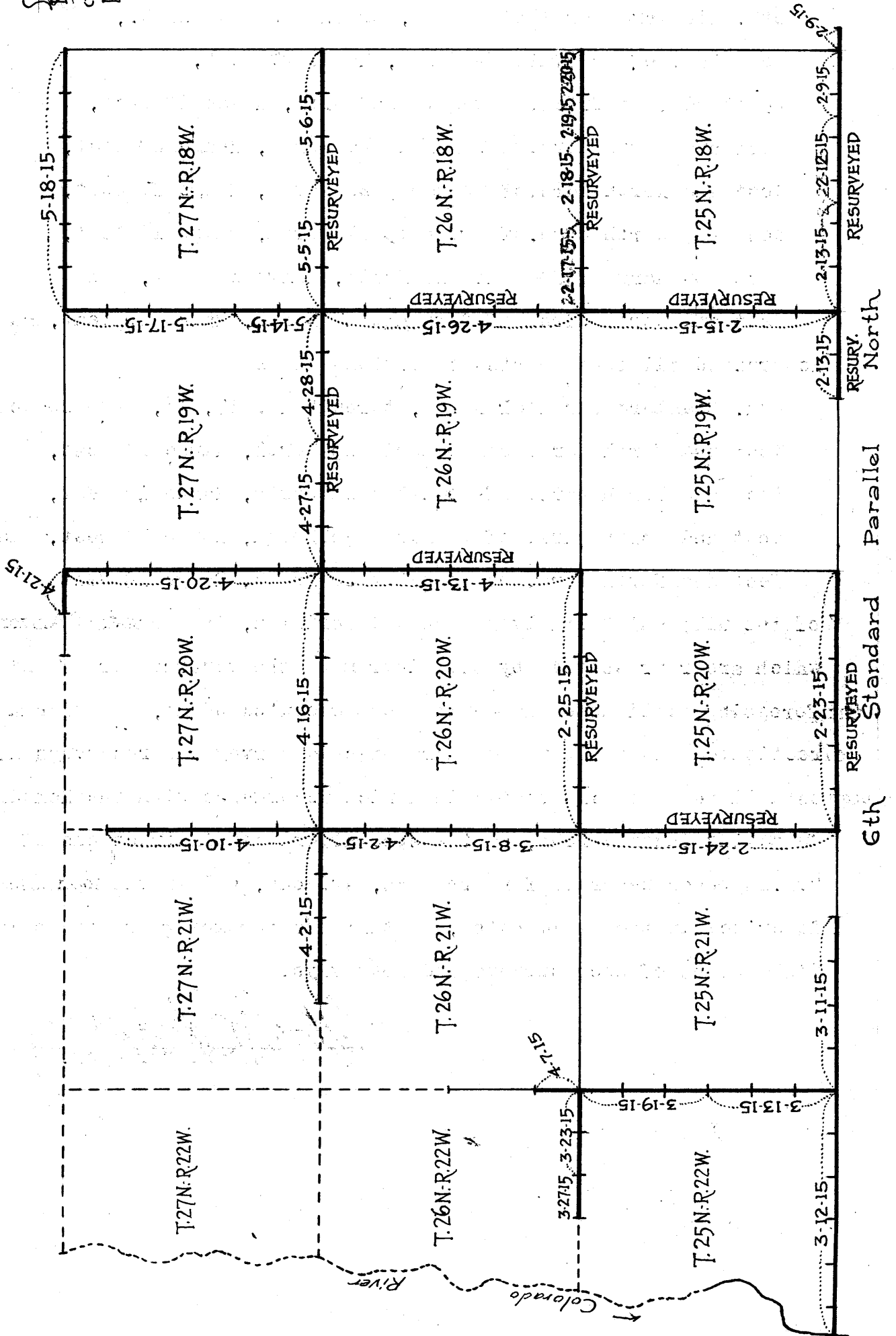
GENERAL DESCRIPTION.

Only the west boundary of sec. 31 of this township was surveyed. The survey of the boundaries of secs. 31, 32, and 33, was attempted but was abandoned on account of the extreme character of the topographic features. These sections are cut by deep precipitous canyons and cross-cut by tributary canyons of the same nature, and the interior parts are inaccessible. This falls within the breaks of the lower part of the Grand Canyon of the Colorado river, and the land is unsurveyable. The soil is sand and rocks and barren of vegetation, except scattering cactus. There is no water in the vicinity, and there are no settlers. The land is absolutely worthless in all respects.

Survey and Resurvey of Township
Boundaries & Standard Lines executed
on dates shown on this diagram
by H. G. Bardsley, U.S. Surveyor.

DATE DIAGRAM
BOOK "A"
Group 45 - Arizona
(Bardsley)

BOOK 3242



CERTIFICATE OF UNITED STATES SURVEYOR.

I, H. G. Bardsley, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. Surveyor General, for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts of portions of the

6th. Standard Parallel North, thru. Rs. 21 and 22 W.,

West bdy. of Township 25 North, Range 21 West,

North bdy. of fracl. Township 25 North, Range 22 West,

West and North bdrs. of Township 26 North, Range 20 West,

West and North bdrs. of Township 26 North, Range 21 West,

West and North bdrs. of Township 27 North, Range 18 West,

West boundary of Township 27 North, Range 19 West, and

West and North bdrs. of Township 27 North, Range 20 West, and

Resurveyed all those parts or portions of the

6th. Standard Parallel North, through Rs. 17, 18, 19 & 20 West,

West and North bdrs. of Township 25 North, Range 18 West,

West and North bdrs. of Township 25 North, Range 20 West,

West and North bdrs. of Township 26 North, Range 18 West, and

West and North bdrs. of Township 26 North, Range 19 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey and resurveys have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General, for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys and resurveys.

H. G. Bardsley
U. S. Surveyor.

Resurvey of Township Boundaries
 any lines extended or deleted
 above on this diagram by
 Sidney H. Blout, U. S. Sur-
 veyor.

DATE DIAGRAM.

Book "A".

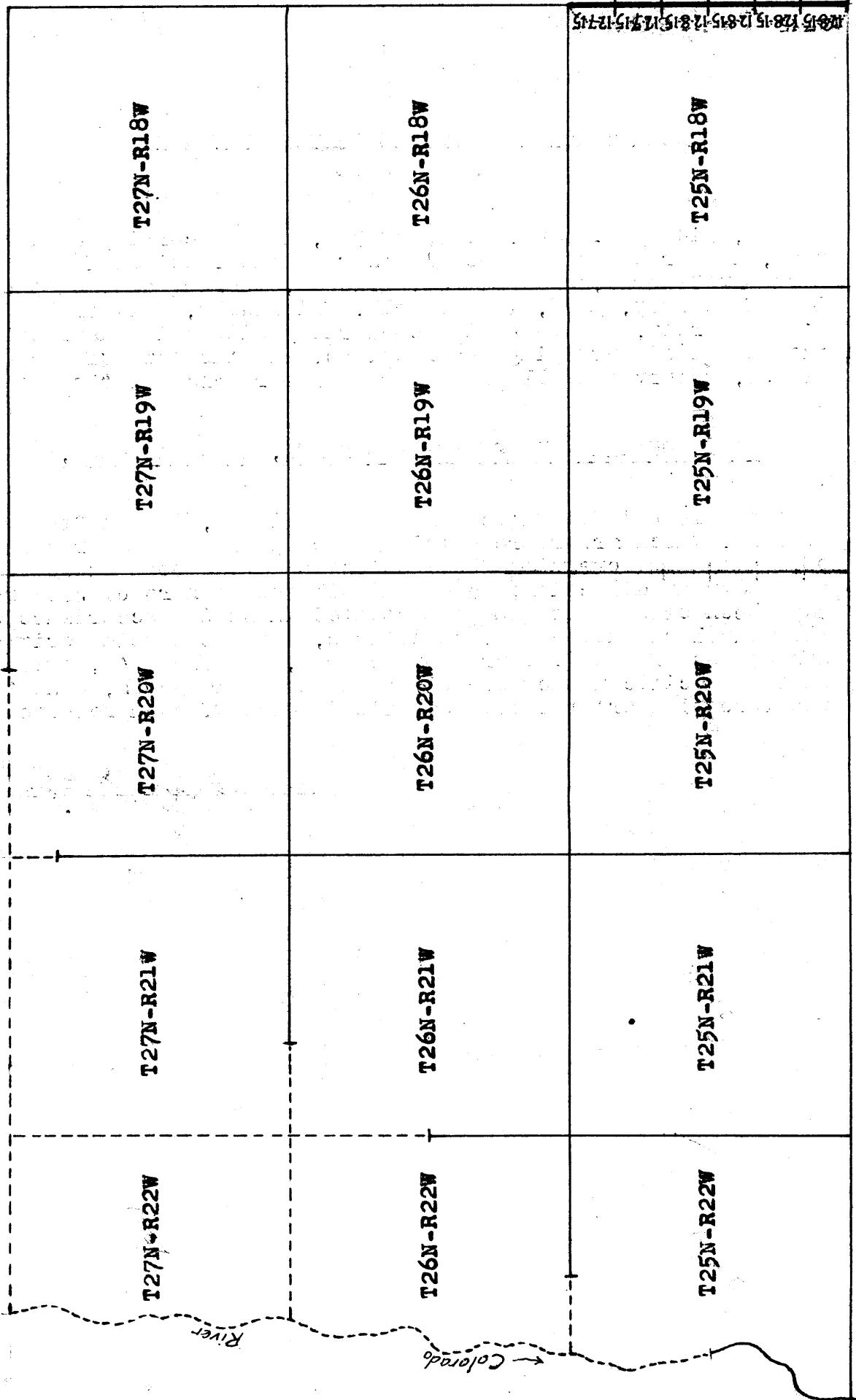
Group 45 - Arizona.

(Blout)

BOOK 3242

233

233



6th STANDARD PARALLEL NORTH

RESURVEYED
 12-8-15 12-8-15 12-8-15 12-8-15 12-8-15

234
234

BOOK 3242

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Sidney E. Blout, U.S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. Surveyor General, for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of the

EAST BOUNDARY OF TOWNSHIP 25 NORTH, RANGE 18 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof, and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said resurveys have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General, for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurveys.

Sidney E. Blout
U. S. Surveyor.

Survey and Resurvey of Township Boundaries & Standard Lines executed on dates shown on this diagram by E. J. Lange, U. S. Surveyor.

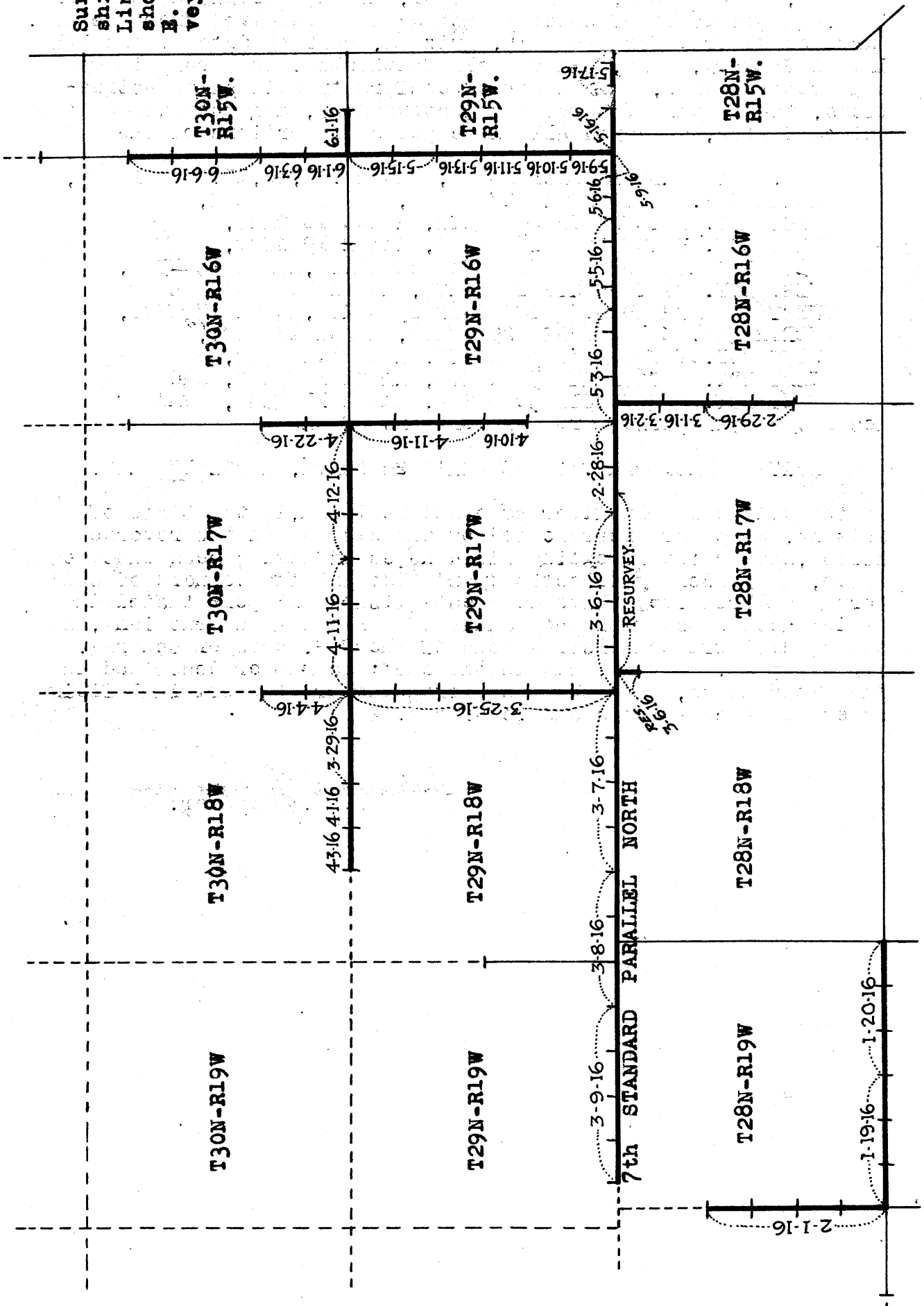
DATE DIAGRAM.

Book "A".

Group 45 - Arizona.

HUALPAI

INDIAN RESERVATION



CERTIFICATES OF UNITED STATES SURVEYOR.

I, E. J. Lange, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. Surveyor General, for Group 45, Arizona, bearing date of the 7th day of **January**, 1915, I have well faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the

7TH. STANDARD PARALLEL NORTH, THRU RS. 15, 16, 17, 18 & 19 W.,
 NORTH BDY. OF TOWNSHIP 27 NORTH, RANGE 19 WEST,
 WEST BDY. OF TOWNSHIP 28 NORTH, RANGE 16 WEST,
 WEST BDY. OF TOWNSHIP 28 NORTH, RANGE 19 WEST,
 WEST & NORTH BDRS. OF TOWNSHIP 29 NORTH, RANGE 15 WEST,
 WEST BDY. OF TOWNSHIP 29 NORTH, RANGE 16 WEST,
 WEST & NORTH BDRS. OF TOWNSHIP 29 NORTH, RANGE 17 WEST,
 NORTH BDY. OF TOWNSHIP 29 NORTH, RANGE 18 WEST,
 WEST BDY. OF TOWNSHIP 30 NORTH, RANGE 15 WEST,
 WEST BDY. OF TOWNSHIP 30 NORTH, RANGE 16 WEST, and
 WEST BDY. OF TOWNSHIP 30 NORTH, RANGE 17 WEST, and
 Resurveyed all those parts or portions of the

NORTH & WEST BDRS. OF TOWNSHIP 28 NORTH, RANGE 17 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof, and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey and resurvey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor General, for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys and resurveys.

Edward J. Lange
 U. S. Surveyor

BOOK 3242

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Royston C. Durnford, U. S. Transitman, hereby certify upon honor, that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the

6TH. STANDARD PARALLEL NORTH, THRU. RANGE 21 WEST,
NORTH BDY. OF TOWNSHIP 25 NORTH, RANGE 21 WEST,
WEST BDY. OF TOWNSHIP 26 NORTH, RANGE 21 WEST, and
NORTH BDY. OF TOWNSHIP 27 NORTH, RANGE 20 WEST, and

Resurveyed all those parts or portions of the

6TH. STANDARD PARALLEL NORTH, THRU. RS. 17, 18, AND 19 W., and
WEST & NORTH BDRS. OF TOWNSHIP 25 NORTH, RANGE 19 WEST;

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof, and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey and resurvey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys and resurveys.

Royston C. Durnford.
U. S. Transitman.

Survey, Retracement and Resurvey of Township Boundaries, executed on dates shown on this diagram by James C. Hooper, U.S. Transitman.

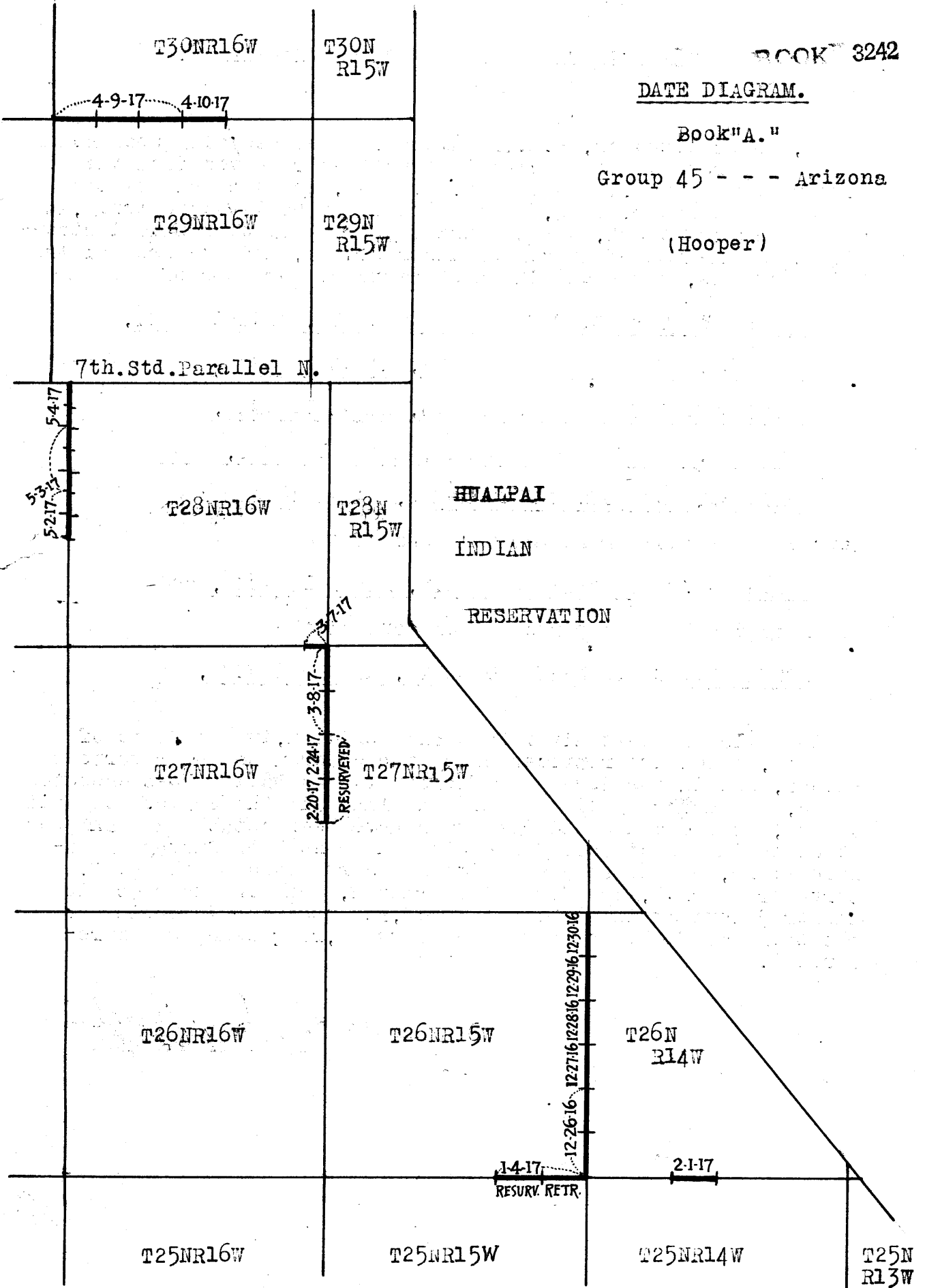
BOOK 3242

DATE DIAGRAM.

Book "A."

Group 45 - - - Arizona

(Hooper)



CERTIFICATE OF UNITED STATES TRANSITMAN.

I, James C. Hooper, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the

- SOUTH & WEST BDRS. OF TOWNSHIP 26 NORTH, RANGE 14 WEST,
- WEST BDY. OF TOWNSHIP 27 NORTH, RANGE 15 WEST,
- NORTH BDY. OF TOWNSHIP 27 NORTH, RANGE 16 WEST,
- WEST BDY. OF TOWNSHIP 28 NORTH, RANGE 16 WEST, and
- NORTH BDY. OF TOWNSHIP 29 NORTH, RANGE 16 WEST;

Retraced all those parts or portions of the

- SOUTH BDY. OF TOWNSHIP 26 NORTH, RANGE 15 WEST, and

Resurveyed all those parts or portions of the

- SOUTH BDY. OF TOWNSHIP 26 NORTH, RANGE 15 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof, and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said surveys, retracements and resurveys have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys, retracements and resurveys.

James C. Hooper
U. S. Transitman.

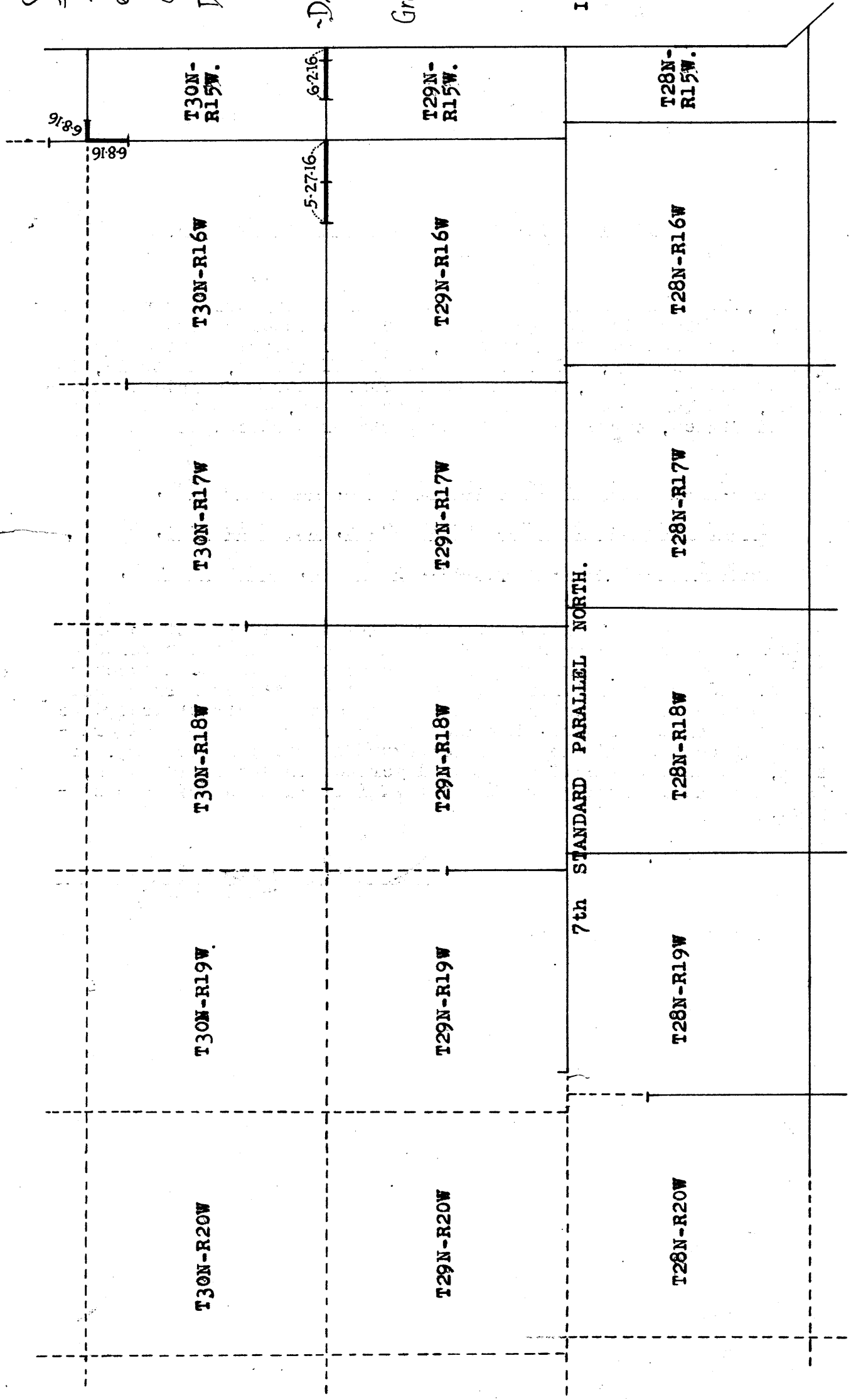
Survey of
Township Boundaries
executed on dates shown
on this diagram, by
D. R. Averill
U.S. Transitman.

DATE ~ DIAGRAM ~
Book "A"
Group 45 ~ Arizona
(Averill)

HUALPAI
INDIAN RESER-
VATION

BOOK 324

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BOOK 3242

CERTIFICATES OF UNITED STATES TRANSITMAN.

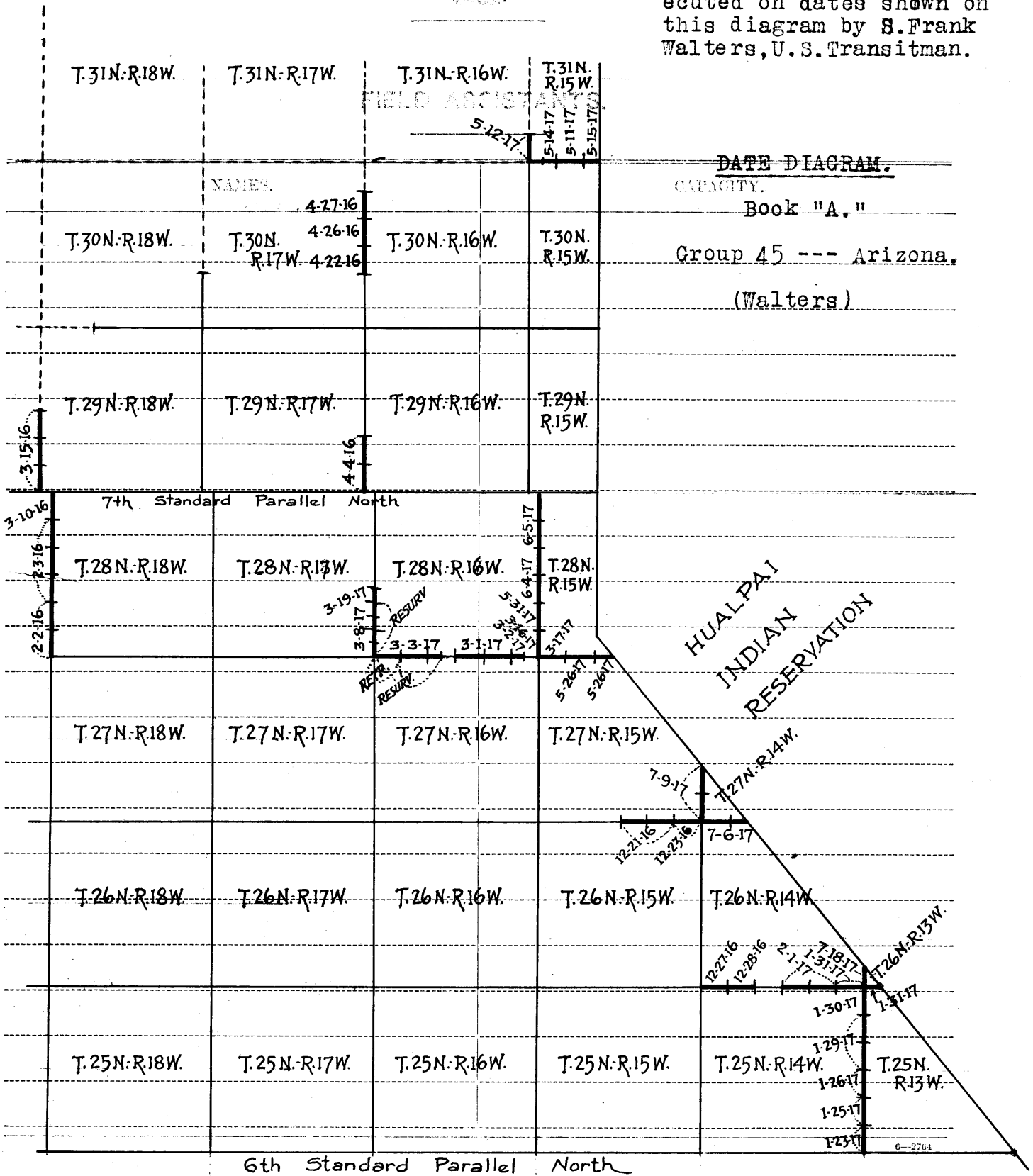
I, D. R. Averill, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 45, Arizona, bearing date of the 7th day of January, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the

- NORTH BOUNDARY OF TOWNSHIP 29 NORTH, RANGE 15 WEST,
- NORTH BOUNDARY OF TOWNSHIP 29 NORTH, RANGE 16 WEST, &
- WEST & NORTH BDRS. OF TOWNSHIP 30 NORTH, RANGE 15 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof, and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys.

D. R. Averill
U. S. Transitman.

Survey and Resurvey of Township Boundaries, executed on dates shown on this diagram by S. Frank Walters, U.S. Transitman.



CERTIFICATE OF UNITED STATES ~~SURVEYOR~~ ^{TRANSITMAN}

I, S. Frank Walters, U. S. ~~Surveyor~~ ^{Transitman}, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 45, Arizona bearing date of the 7th day of January, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed ^{retraced or resurveyed} all those parts or portions of the West and North bdrs. of T. 25 N., R. 13 W., West bdy. of T. 26 N., R. 13 W., South and North bdrs. of T. 26 N., R. 14 W., North bdy. of T. 26 N., R. 15 W., West bdy. of T. 27 N., R. 14 W., North bdy. of T. 27 N., R. 16 W., South and West bdrs. of T. 28 N., R. 15 W., West bdy. of T. 28 N., R. 16 W., West bdy. of T. 28 N., R. 18 W., West bdy. of T. 29 N., R. 16 W., West bdy. of T. 29 N., R. 18 W., North bdy. of T. 30 N., R. 15 W., West bdy. of T. 30 N., R. 16 W. and West bdy. of T. 31 N., R. 15 W. of the Gila and Salt River Base nd Meridian, in the State of Arizona, which are represented by the diagram on the reverse hereof and in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said surveys ^{retracements and resurveys} have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Group 45, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys ^{retracements and resurveys}.

S. Frank Walters
U. S. ~~Surveyor~~ ^{Transitman}

— APPROVAL —

— OFFICE OF THE UNITED STATES SURVEYOR GENERAL —

Phoenix, Arizona, 1918.

~~The foregoing field notes of the survey of the 6th Standard Parallel North, thru Rs. 20, 21 and 22 W., the 7th Standard Parallel North, thru Rs. 16, 17, 18 and parts of Rs. 15 and 19 W., and all those boundaries or parts of boundaries of Ts. 25 N., Rs. 13, 21 and 22 W., Ts. 26 N., Rs. 13, 14, 15, 20 and 21 W., Ts. 27 N., Rs. 14, 15, 16, 18, 19 and 20 W., Ts. 28 N., Rs. 15, 17, 18 and 19 W., Ts. 29 N., Rs. 15, 16, 17 and 18 W., Ts. 30 N., Rs. 15, 16 and 17 W., and T. 31 N., R. 15 W. which are indicated on the diagrams on pages 2, 3, 4, 231, 235, 238, 239, 241 and 243, hereof as having been surveyed under this group, and of the Retracement of those parts of the boundaries of T. 26 N., R. 15 W. and T. 27 N., R. 16 W., which are indicated on the diagrams on pages 2, 3, 234 and 243, hereof as having been retraced under this group, and of the Resurvey of all those boundaries or parts of boundaries of Ts. 25 N., Rs. 18, 19 and 20 W., Ts. 26 N., Rs. 15, 18, and 19 W., Ts. 27 N., Rs. 15 and 16 W., and Ts. 28 N., Rs. 16 and 17 W., which are indicated on the diagrams on pages 2, 3, 4, 231, 233, 235, 237, 239 and 243 hereof as having been resurveyed under this group, all north and west of the Gila and Salt River Base and Meridian, in the State of Arizona executed by H. G. Bardsley, Sidney E. Blewett and Ed. Lange, U.S. Surveyors and Rayston C. Downford, James C. Hooper, D. R. Averill and S. Frank Walters, U.S. Transitmen, on dates shown on diagrams on pages 231, 233, 235, 237, 239, 241, 243, hereof, under special instructions dated Jan 7, 1915, for Group No. 45, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys ^{retracements and resurveys} they describe, are hereby approved.~~

U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General

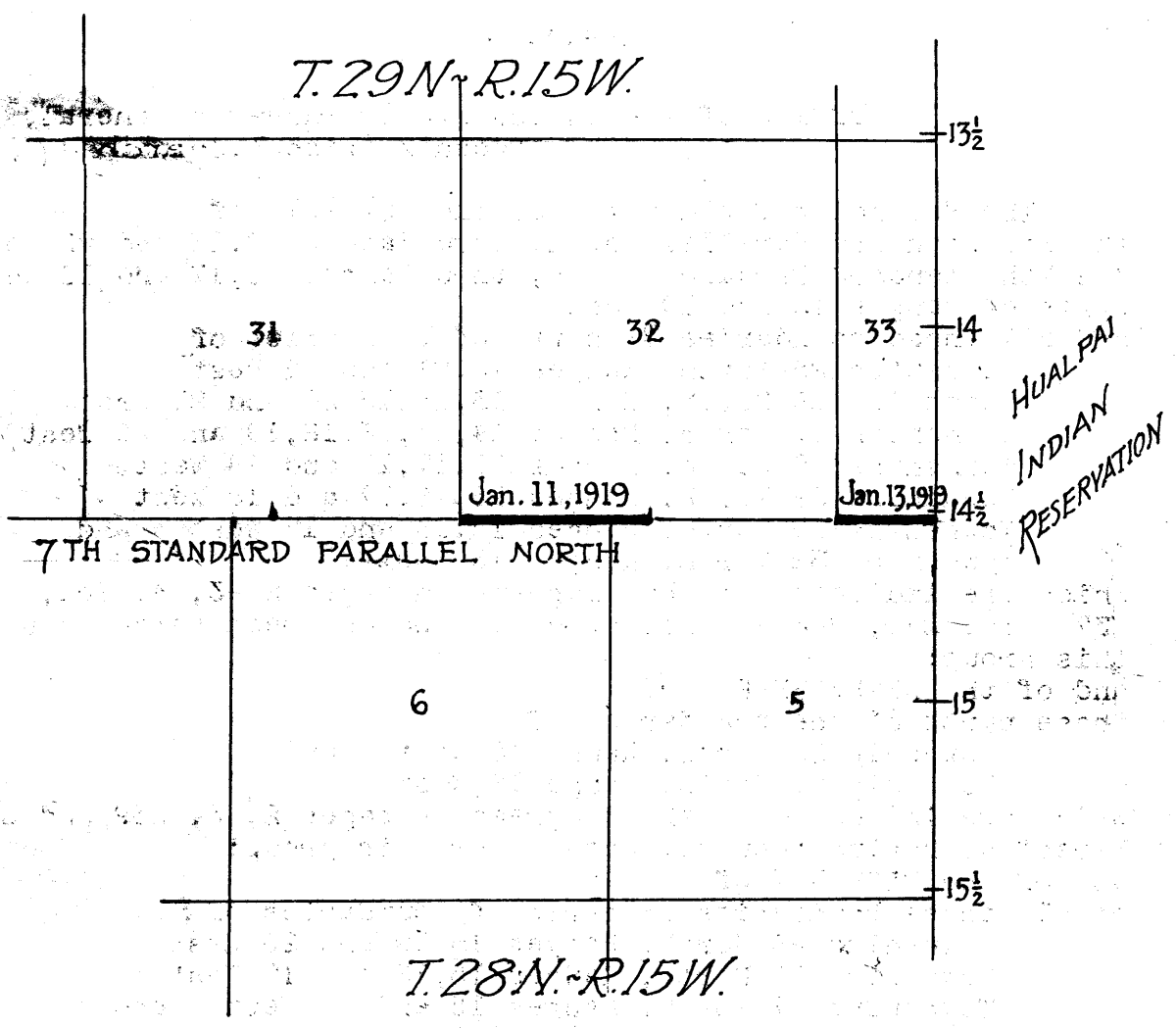
Survey of Standard lines
executed on dates shown on
this diagram by
J.P. Davis U.S. Surveyor

BOOK 3242

DATE DIAGRAM

Book "A"

Group 45 Arizona.



CERTIFICATE OF UNITED STATES SURVEYOR.

I, J.P.Davis, U.S.Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S.Surveyor General, for Group 45 Arizona bearing date of the 7th day of January 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

The 7th Standard Parallel North
in Range 15 West

of the Gila and Salt River Base and Meridian in the State of Arizona, which are represented by the diagram on the reverse hereof and in the foregoing field notes as having been executed by me, and under my direction; and that all corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S.Surveyor General, for Group 45 Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

March 15, 1919.
Wagoner, Arizona.

J. P. Davis
U.S. Surveyor.

APPROVAL.

Office of the United States Surveyor General,
Phoenix Arizona, March 17, 1919.

The foregoing field notes of the SURVEY of the 6th Standard Parallel North, thru Ranges 20, 21 and 22 West, the 7th Standard Parallel North, thru Ranges 16, 17 and 18 West and parts of Ranges 15 and 19 West

and all those boundaries or parts of boundaries of
Townships 25 North, Ranges 13, 21 and 22 West
Townships 26 North, Ranges 13, 14, 15, 20 and 21 West
Townships 27 North, Ranges 14, 15, 16, 18, 19 and 20 West
Townships 28 North, Ranges 15, 17, 18 and 19 West
Townships 29 North, Ranges 15, 16, 17 and 18 West
Townships 30 North, Ranges 15, 16 and 17 West and
Township 31 North, Range 15 West

which are indicated on the diagrams on pages 2, 3, 4, 231, 235, 237, 239, 241, 243 and 245 hereof, as having been surveyed under this group;

and of the RETRACEMENT of those parts of the boundaries of
Township 26 North, Range 15 West and
Township 27 North, Range 16 West

which are indicated on the diagrams on pages 2, 3, 239 and 243 hereof as having been retraced under this group;

and of the RESURVEY of of all those boundaries or parts of boundaries of
Townships 25 North, Ranges 18, 19 and 20 West
Townships 26 North, Ranges 15, 18 and 19 West
Townships 27 North, Ranges 15 and 16 West and
Townships 28 North, Ranges 16 and 17 West

which are indicated on the diagrams on pages 2, 3, 4, 231, 233, 235, 237, 239 and 243 hereof, as having been resurveyed under this group, all North and West of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by H.G. Bardsley, Sidney E. Blout, E.J. Lange and J.P. Davis U.S. Surveyors, and Royston C. Durnford James C. Hooper, D.R. Averill and S. Frank Walters, U.S. Transitmen under special instructions dated Jan. 7, 1915 for Group 45, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys, retracements, and resurveys they describe, are hereby approved.

Grant D. Frost
U.S. Surveyor General.