

FIELD NOTES

OF THE SURVEY OF THE

East Boundary

North Boundary

and

Subdivision lines

of

Fractional Township 30 North, Range 23 West

and

Meanders of Left Bank of Colorado River

thru

Fractional Township 30 North, Range 23 West

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Dupree R. Averill, U.S. Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated July 15, 1929, issued by the District Cadastral Engineer to govern surveys included in Group No. 160 Arizona, which were approved by the Commissioner of the General Land Office, August 1, 1929, and Assignment Instructions dated January 29, 1930.

Survey commenced February 28, 1930

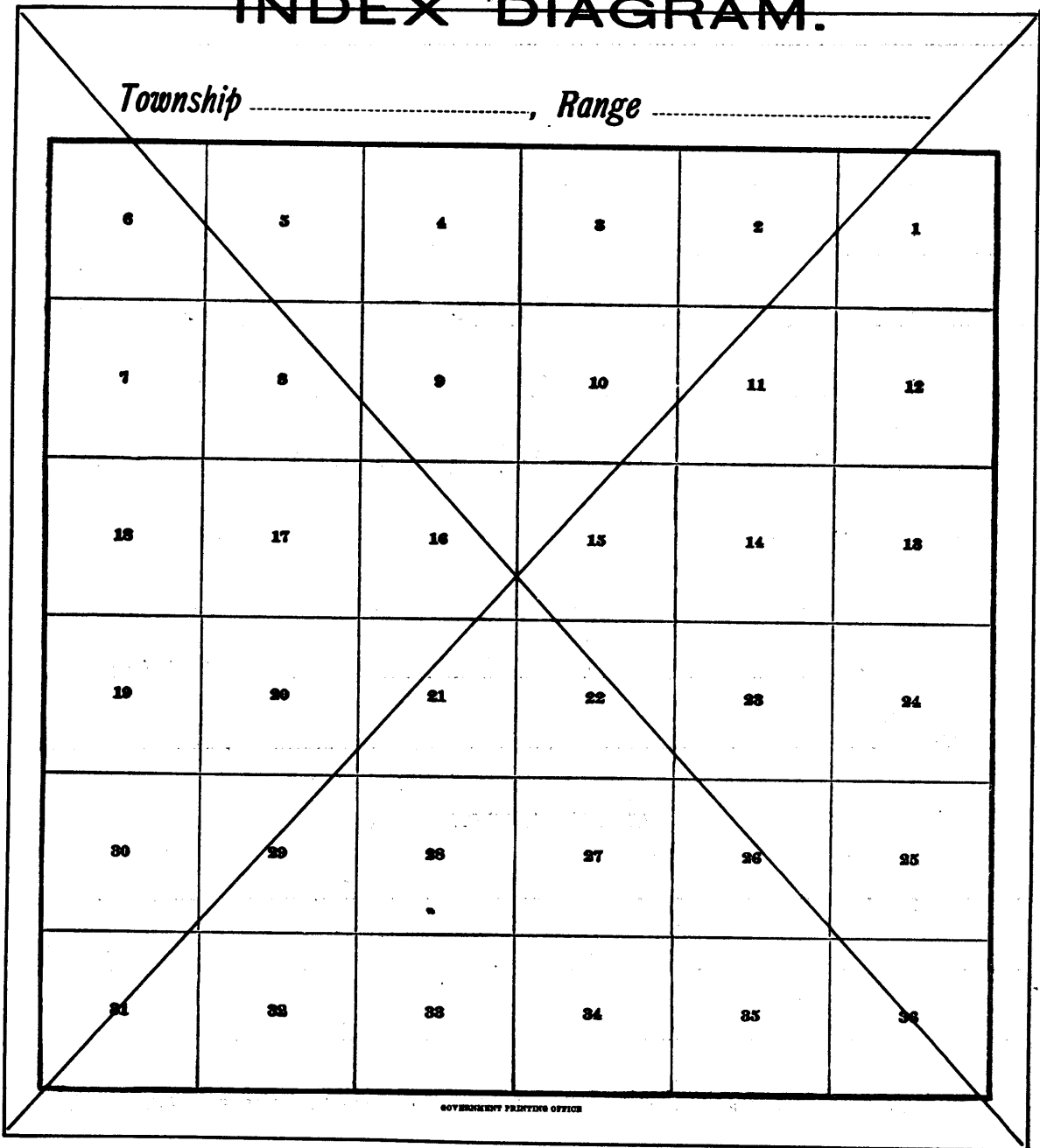
Survey completed April 9, 1930

3883

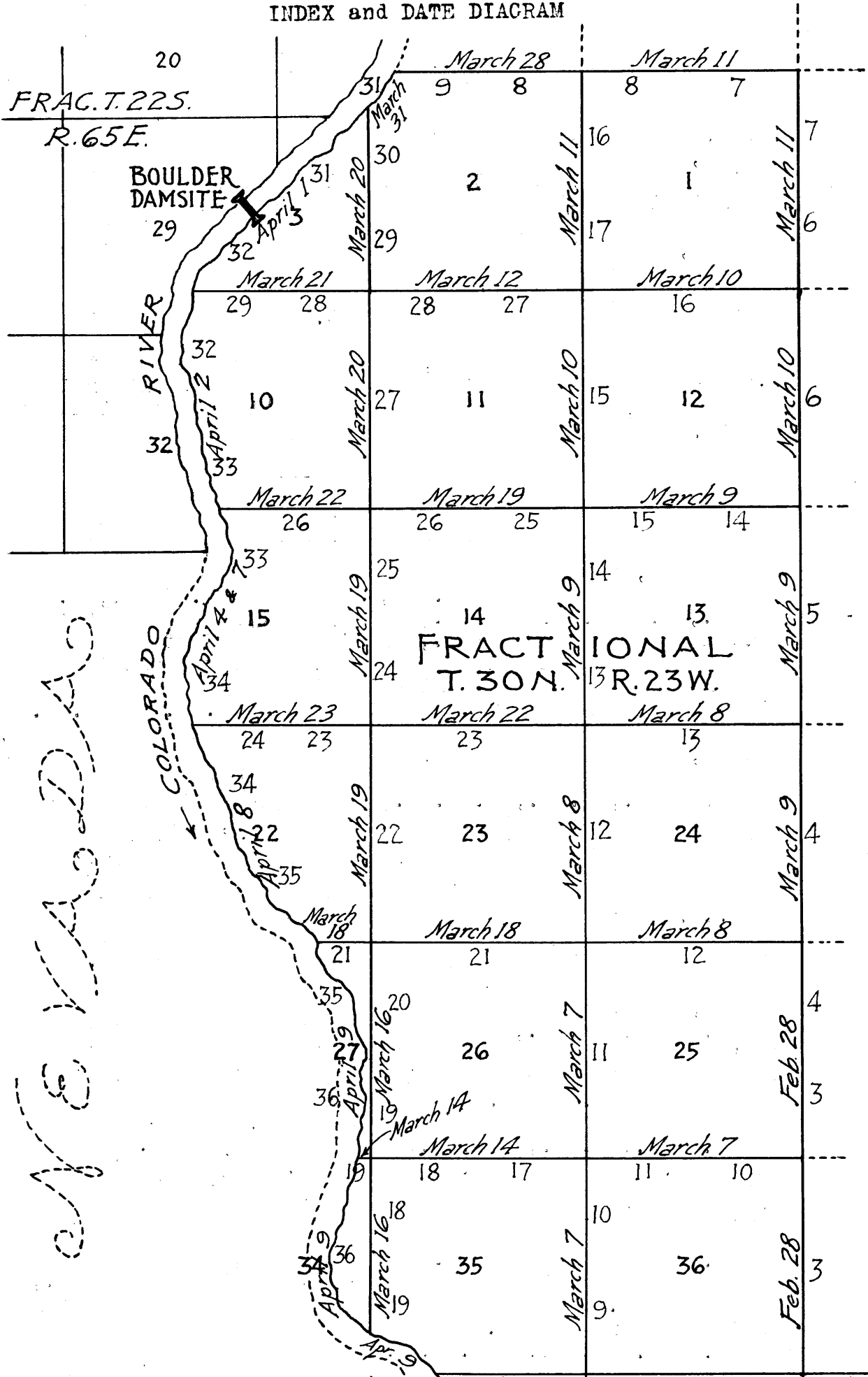
3883

INDEX DIAGRAM.

Township , *Range*



Group 160 Arizona INDEX and DATE DIAGRAM



Dates & Notes in Book "A" of this group

March 8 Lines of Arizona Group No. 160 surveyed by D. R. Averill, U.S. Surveyor in 1930. Month and day shown in red. Page number of notes in green.

----- Unsurveyed lines in Arizona.

----- Lines of Nevada surveys.

----- Unsurveyed Meanders of Right Bank of Colorado River.

The surveys herein described were executed on dates shown on diagram on page 1 hereof by Dupree R. Averill, U. S. Surveyor, using Buff & Buff solar transit No. 17992, equipped with full vertical circle and the Smith solar attachment. The horizontal limb of the transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

The instrument was examined, tested and approved by the District Cadastral Engineer for Arizona and California January 29, 1930, conditional upon satisfactory field tests.

 PRELIMINARY TEST.

February 28, 1930:

At camp near center of sec. 25, fractional T. 30 N., R. 23 W., G. & S. R. B. & M., Arizona, latitude $35^{\circ} 57\frac{1}{2}'$ N., longitude $114^{\circ} 43'$ W., examine the adjustments of the instrument and find no errors, then, to test the solar apparatus by comparing its indications resulting from solar observations made during a. m. and p. m. hours with a meridian determined by Polaris observations, proceed as follows:

At 8 h. 59 m., p. m., l. m. t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined by a tack in a stake driven firmly in the ground 10.00 chs. N.

Azimuth of Polaris at western elongation - $1^{\circ} 19' 5''$.

March 1, 1930.

At 7 h. 30 m., a. m., lay off the azimuth of Polaris $1^{\circ} 19'$ to the east and mark a point in the true meridian thus determined by a tack in a stake driven firmly in the ground 10.00 chs. N.

At 8 h. 0 m., a. m., app. t., set off $35^{\circ} 57\frac{1}{2}'$ N., on the lat. arc, $7^{\circ} 40'$ S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of $7^{\circ} 37'$ S., on the decl. arc, which agrees with the computed declination of the sun.

At 4 h. 0 m., p. m., app. t., with the lat. arc unchanged set off $7^{\circ} 32'$ S. on the decl. arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

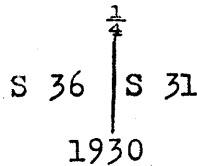
As all of the solar observations made during the usual hours of solar work define positions for meridian which agree within 1' with the true meridian, conclude that the instrument is in satisfactory adjustment.

Unless otherwise specified all measurements are made with a Lufkin steel tape 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, vertical angles determined by clinometer or transit readings, and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

Survey of the East Boundary of Frac. T. 30 N., R. 23 W.

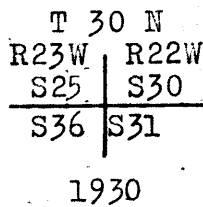
chains From cor. of T. 30 N., R. 22 W., Frac. T. 30 N., R. 23 W., and Frac. T. 29 N., R. 22 & 23 W., described in Book "A,"

- North, on true line, bet. secs. 31 and 36.
- Over rolling mountains, thru scattered undergrowth.
- Asc., S. slope 20 ft..
- 1.00 Small spur, slopes E., Desc., NE. slope 25 ft.,
- 2.25 Gully, course SE., Asc., S. slope 150 ft.,
- 8.80 Spur, slopes S. 20° E., and along same. Asc., 30 ft.,
- 17.50 Divide- ridge- bears NE. and SW. Desc., N. slope 50 ft.,
- 21.00 Gully, course W., Along W. slope.
- 24.10 Small spur, slopes W., Desc., N. slope 50 ft.,
- 25.90 Gully, course S. 70° W. Asc., S. slope 120 ft.,
- 29.60 Spur, slopes W., Desc., NW. slope 75 ft.,
- 31.80 Gully, course NW., Desc., 75 ft.,
- 35.60 Draw, course W., Asc., S. slope 170 ft.,
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



raise a mound of stone. 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor..

- Asc., SW. slope 10 ft.,
- 40.80 Spur, slopes W., Desc., NW. slope 80 ft.,
- 45.50 Draw, course S. 70° W., Asc., S. slope 90 ft.,
- 48.70 Spur, slopes SW., Asc., SW. slope 60 ft.,
- 52.60 Saddle in divide, or ridge, bearing E. and W., Along W. slope.
- 57.50 Change of slope to NW., Desc., 100 ft.,
- 63.30 Draw, course N. 60° W., Asc., SW. slope 225 ft.,
- 66.00 Gully, course SW., Change of slope to S.,
- 74.50 Shoulder of peak on spur, extending NW., Desc., NE. slope 150 ft.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 3 ft. high, for the cor. of secs., 25, 30, 31 and 36, marked on brass cap

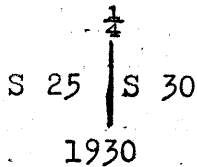


Land: broken and rolling mountains.
 Soil: gravel, rock, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, cacti, and catclaw.

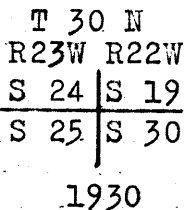
- North on true line bet. secs. 25 and 30.
- Over mountainous land, thru scattered undergrowth.
- Desc., NE. slope 140 ft.,
- 6.90 Gully, course NE. Desc., 30 ft.,
- 9.80 Small spur, slopes NE., Desc., NE. slope 140 ft.,
- 15.00 Draw, course N. 30° W., Asc., SW. slope 60 ft.,
- 19.30 Spur, slopes N. 20° W., Desc., NE. slope 85 ft.,
- 24.10 Draw, course N. 80° W., Along W. slope.
- 26.20 Gully, course W., Asc., SW. slope 50 ft.,
- 34.00 Spur, slopes N. 20° W., Desc., NE. slope 100 ft.,
- 38.00 Change of slope to N.,
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., .6 ins., in the ground, to bedrock, with marked (X) stone deposited

Survey of the East Boundary of Frac. T. 30 N., R. 23 W.

chains alongside, supported in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap

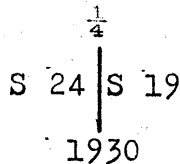


43.10 Desc., N. slope 80 ft.,
 48.00 Enter wash, course N. 85° W.,
 49.50 Leave Wash. Asc., 30 ft.,
 50.40 Spur, slopes W., Desc., 20 ft.,
 53.00 Gully, course W., Asc., 30 ft.,
 58.00 Spur, slopes W., Desc., 25 ft.,
 62.00 Wash, course S. 80° W.,
 75.20 Leave Wash. Asc., SE. slope 460 ft.,
 80.00 Rim of table land, bears NE. and W., Over rolling mesa.
 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 3 ft. base, 2 ft. high, for the cor., of secs., 19, 24, 25 and 30, marked on brass cap



Land: rolling and broken mountains.
 Soil: gravel, rocky, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, cacti.

North on true line bet. secs., 19 and 24.
 Over rolling land, thru scattered undergrowth.
 Across mesa.
 6.10 Leave mesa, extends NE. and SW., Desc., N. slope 460 ft.,
 24.50 Wash, 60 lks., wide, course W.,
 35.00 Over rolling gravel hills, Asc., 125 ft.,
 38.20 Spur, slopes W., Desc., 75 ft.,
 39.90 Drain, course W., Asc., 20 ft.,
 40.00 Small spur, slopes W.,
 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



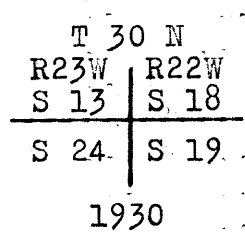
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.,

41.50 Drain, course SW., Asc., S. slope 70 ft.,
 46.00 Spur, slopes SW. Desc., 50 ft.,
 54.30 Gully, course SW., Asc., 40 ft.,
 57.40 Spur, slopes SW.,
 63.00 Spur, slopes NW., Desc., 100 ft.,
 67.50 Gully, course W., Asc., 50 ft.,
 69.40 Spur, slopes W., Desc., 50 ft.,
 72.00 Gully, course W., Asc., 50 ft.,
 75.20 Spur, slopes W., Desc., 80 ft.,
 79.80 Gully, course W., Asc., 10 ft.,
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the

Survey of the East Boundary of Frac. T. 30 N., R. 23 W.

chains

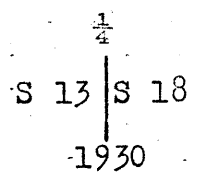
ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone. 3 ft. base, 1 1/2 ft. high, for the cor., of secs., 13, 18, 19 and 24. marked on brass cap



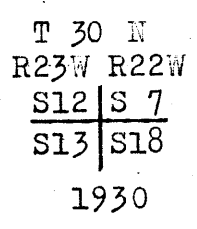
Land: broken, rolling gravels.
Soil: rocky, gravel, 3rd. rate.
Timber: none.
Undergrowth: greasewood, catclaw, and cacti.

North on true line bet. secs. 13 and 18.
Over rolling gravel hills, thru scattered undergrowth.
Asc., S. slope 10 ft..

- 0.50 Spur, slopes W., Desc., 20 ft.,
- 3.80 Enter wash, course S. 70° W..
- 7.90 Leave wash. Asc., SW. slope 90 ft..
- 16.00 Along W. slope.
- 20.50 Gully, course W.. Asc., S. slope 130 ft..
- 29.30 Spur, slopes SW., Desc., NW. slope 40 ft..
- 34.30 Draw, course SW., Asc., S. slope 125 ft..
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 16 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone. 3 ft. base, 1 1/2 ft. high, for 1/4 sec. cor., marked on brass cap



- Asc., 40 ft.,
- 42.30 Spur, slopes SW., Along W. slope, desc., 40 ft.,
- 45.30 Small spur, slopes W.
- 48.00 Small spur, slopes W. Desc., 30 ft..
- 54.40 Cut wash, 15 ft. deep, 20 lks. wide, course SW..
Asc., SE. slope 100 ft.,
- 59.80 Spur, slopes SW.. Desc., W. slope 15 ft..
- 63.60 Gully, course SW., Asc., SE. slope 50 ft..
- 69.20 Along E. slope.
- 72.30 Gully (same) course SE., Asc., S. slope 130 ft..
- 79.00 Gravel ridge, bears NE. and S. 70° W. Desc., N. slope 20 ft..
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 26 ins., in the ground, for the cor. of secs., 7, 12, 13 and 18, marked on brass cap



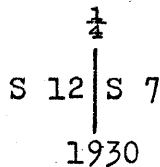
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.,

Land: rolling hills.
Soil: gravels, 3rd. rate.
Timber: none.
Undergrowth: greasewood, catclaw, and cacti.

Survey of the East Boundary of Frac. T.30N., R.23W.

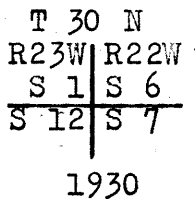
chains

- North on true line bet. secs. 7 and 12.
- Over rolling hills, thru scattered undergrowth.
- Desc., N. slope 30 ft.,
- 1.50 Drain, course NW., Asc., 40 ft.,
- 4.00 Spur, slopes W., Desc., 80 ft.,
- 8.30 Gully, course W., Asc., 60 ft.,
- 11.60 Spur, slopes W., Desc., 90 ft.,
- 15.20 Gully, course N.80°W., Asc., 55 ft.,
- 19.00 Spur, slopes W., Desc., 115 ft.,
- 25.15 Draw, course W., Asc., 50 ft.,
- 28.80 Spur, slopes W.,
- 33.50 Spur, slopes W., Desc., 60 ft.,
- 34.60 Draw, course SW., Asc., 75 ft.,
- 37.80 Spur, slopes W., Desc., 45 ft.,
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for 1/4 sec. cor. marked on brass cap



raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor.

- Desc., N. slope 30 ft.,
- 41.10 Drain, course NW., Desc., 30 ft.,
- 44.50 Gully, course W., Asc., 20 ft.,
- 48.30 Spur, slopes W.,
- 49.30 Draw, 50 lks. wide, 20 ft. deep, course S.75°W., Asc., S. slope 125 ft.,
- 58.00 Spur, slopes W., Desc., N. slope 70 ft.
- 60.80 Drain, course NW., Asc., 25 ft.,
- 63.60 Spur, slopes NW., Desc., 90 ft.,
- 66.60 Drain, course NW., Asc., 25 ft.,
- 68.50 Spur, slopes N.60°W., Desc., 70 ft.,
- 73.90 Draw, course S.80°W., Asc., 90 ft.,
- 77.80 Drain, course S.5°E., and along same.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 3 ft. high, for the cor. of secs. 1, 6, 7 and 12, marked on brass cap



Land: rolling and broken hills.
 Soil: rock, gravel, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

- North on true line bet. secs. 1 and 6.
- Over rolling hills, thru scattered undergrowth.
- Asc., S. slope, along drain, course S., 80 ft.,
- 3.90 Ridge-spur, slopes SW., Desc., N. slope 50 ft.,
- 6.30 Head of draw, course W., Asc., 20 ft.,
- 7.90 Spur, slopes W., Desc., 20 ft.,
- 9.10 Drain, course W., Asc., 40 ft.,
- 12.60 Spur, slopes NW., Old road follows crest of spur, NW., to Colorado River, SE. about two miles to mining claims.
- Desc., NE. slope 100 ft.,

Survey of the East Boundary of Fractional T.30 N., R.23 W.

chains

- 22.25 Spur, slopes NE., Desc., N. slope 100 ft..
- 27.00 Gully, course NE., Desc., NE.slope 140 ft..
- 34.40 Wash, 50 lks., wide, course NW., Asc., S. slope 30 ft.,
- 36.00 Across small bench.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bedrock, with marked (X) stone, deposited alongside, supported in a mound of stone, 2 ft. base, 2 ft. high, for 1/4 sec. cor., marked on brass cap

$\frac{1}{4}$
 S 1 | S 6
 1930

- Asc., SW.slope 20 ft..
- 41.65 Toe of spur from NE.,
- 42.65 Gully, course SW., Asc., SE.slope 110 ft..
- 46.90 Head of gully, course S.20°W.
- 49.20 Small rocky peak, on spur, sloping S.70°W. Desc., NE. slope 155 ft..
- 54.00 Enter wash. course W.,
- 56.30 Leave wash. Asc., S. slope, along drain, 100 ft..
- 61.00 Spur, slopes W., Desc., 50 ft..
- 64.65 Head of gully, course N.80°W., Asc., 30 ft..
- 66.00 Spur, slopes N.70°W., Desc., N. slope 80 ft.,
- 71.00 Draw, course W., Asc., 20 ft.
- 72.50 Short spur, slopes W., Asc., along W. slope 30 ft..
- 72.90 Drain, course S.85°W.
- 75.00 Small spur, slopes W.,
- 77.50 Drain, course W.,
- 80.00 Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for cor. of Ts. 30 & 31 N., R. 22 W., and Frac. Ts. 30 & 31 N., R. 23 W., marked on brass cap

T 31 N
 R23W | R22W
 S 36 | S 31
 S 1 | S 6
 T 30 N
 1930

Land: rolling and broken hills.
 Soil: gravels, clay, and rock, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

Survey of the North Boundary of Fractional T.30 N., R.23 W.

From cor. of Ts. 30 & 31 N., R. 22 W., and Frac. Ts. 30 & 31 N., R. 23 W., hereinbefore described,

- West, on true line, bet. secs., 1 and 36.
- Over broken hills, thru scattered undergrowth.
- Desc., NW. slope 40 ft.
- 2.20 Gully, course SW., Asc., SE. slope 20 ft.,
- 8.50 Desc., SW.slope 140 ft..
- 14.65 Enter wash, course NW..
- 16.70 Leave Wash. Asc., NE.slope 20 ft..
- 18.70 Spur, slopes NW., Desc., SW.slope 90 ft.,
- 28.50 Wash, 15 lks., wide, course NW., Asc., 20 ft.,
- 31.10 Spur, slopes N., Desc., 75 ft..
- 34.10 Wash, 20 lks., wide, course N., Asc., 50 ft.,
- 36.00 Spur, slopes NW., Desc., 60 ft..
- 39.50 Gravel spur, extends NW.,
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the

Survey of the North Boundary of Fractional T.30 N., R.23 W.

chains

the ground, for 1/4 sec.cor., marked on brass cap

1/4 S 36 / S 1

1930

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

- 40.50 Desc., SW.slope 10 ft.,
- 46.80 Enter wash, course N.30°W.
- 48.60 Leave wash, Asc., E. slope 20 ft.,
- 52.50 Gravel spur, extends N.30°W. Desc., 60 ft.,
- 55.00 Wash, 15 lks.,wide, course NW., Asc., 85 ft..
- 60.00 Spur, slopes N.20°W., Across level land.
- 60.50 Old road, bears NW. and SE.
- 62.20 Desc., SW.slope 60 ft.,
- 65.40 Wash, 20 lks.,wide, course NW., Asc., 15 ft.,
- 66.50 Short spur, slopes N., Desc., 25 ft.,
- 67.50 Wash, 20 lks.,wide, course N., Asc., 40 ft.,
- 69.75 Spur, slopes NW., Desc., 40 ft.,
- 71.50 Gully, course N.20°W., Asc., 40 ft.,
- 74.20 Spur, slopes N., Desc., 50 ft.,
- 80.00 Small draw, course N.10°E., Asc., E. slope 70 ft.,
- Set an iron post,3 ft.long, 2-ins.,diam., 12 ins.,in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone.3 ft.base, 2 ft.high, for the cor.,of secs.,1,2,35 and 36, marked on brass cap

T31N R23W

S 35 | S 36 / S 2 | S 1

T30N

1930

Land: broken and rolling.
 Soil: gravels, rocky, 3rd.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw^{and} cacti.

 West on true line bet.secs..2 and 35.
 Over rolling and broken mountains, thru scattered undergrowth.

- 0.10 Drain, course N.80°E., Asc., E. slope, along drain, 110 ft.
- 5.35 Spur, slopes NE., Desc., NW.slope 85 ft..
- 9.00 Draw, course NE.. Asc., 15 ft..
- 10.25 Toe of spur, from S.
- 12.25 Gully, course NE., Asc., SE.slope 80 ft.,
- 15.15 Sandstone outcrop, on spur, extending NE.. Desc., 30 ft.,
- 16.00 Saddle in spur,
Asc., NE.slope 125 ft.,
- 21.70 North slope of small peak, change of slope to NW., Desc. 70 ft.,
- 26.00 Head of gully, course NE.. Asc., 50 ft.,
- 28.00 Short spur, slopes NE., Asc., 30 ft.,
- 33.00 Along N. slope.
- 36.00 Draw, course N.70°E., Asc., SE.slope 100 ft.,
- 40.00 Set an iron post,3 ft.long, 1 in.,diam., 10 ins.,in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 3 ft.base, 2 ft.high, for 1/4 sec.cor., marked on brass cap

1/4 S 35 / S 2

1930

Asc., SE.slope 80 ft.,

Survey of the North Boundary of Fractional T.30 N., R.23 W.

chains

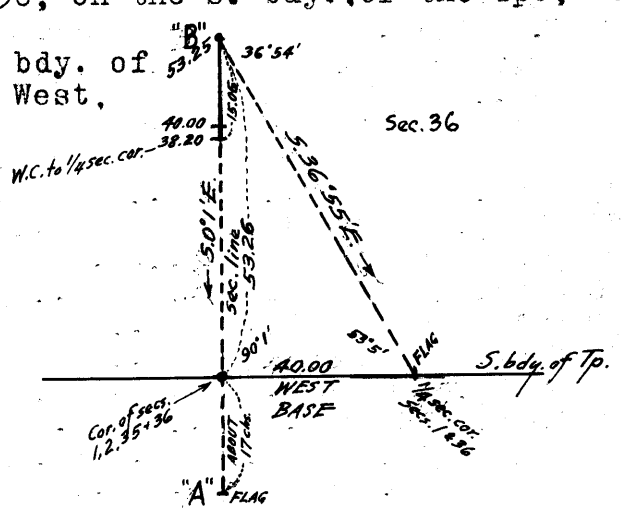
- 46.10 Ridge, bears NE. and S., Desc., W. slope 100 ft.,
- 50.00 Along N. slope; spur extends SW..
- 52.50 Desc., NW.slope 130 ft..
- 55.90 Rim of cliff, 100 ft.high, extending N. and S.,
Desc., over series of cliffs and ledges 500 ft..
- 60.00 Short gulch, course N., Desc., broken NW. slope 300 ft..
- 65.90 Sharp rocky point, breaks precipitously to the N., Desc.,
over face of bluff 240 ft..
- 69.60 High water mark of left bank of Colorado River, on face of bluff,
bearing NE. and SW.,
Set an iron post, 3 ft.long, 1 in.,diam. in crevice of
bluff, and against face of ledge, supported in a
mixture of stone and concrete, with a marked (X)
stone deposited alongside, for meander cor., of
fractional sections 2 and 35, marked on brass cap

T31N R23W
 M / S 35
 C / S 2
 T30N
 1930

Land: rolling and broken mountains.
 Soil: rocky, 3rd.and 4th.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw^{and} cacti.

 Survey of subdivisions of Fractional T.30 N., R.23 W..

From the cor., of secs., 1, 2, 35 and 36, on the S. bdy., of
 the Tp., described in Book "A";
 N.0°01'W. bet secs. 35 and 36.
 Owing to the precipitous character of the country
 chaining is impracticable. To obtain distance to the
 north a flag "A" is established S.0°01'E., about
 17.00 chs.. dist.. then proceed to a point "B" on sec. line
 from which "A" bears S.0°01'E., and the 1/4 sec.cor.,
 of secs. 1 and 36, on the S. bdy., of the Tp., bears
 S.36° 55'E.,
 Use the W. 1/2 of S. bdy. of
 sec. 36 as a base, West,
 40.00 chs.



Triangulated dist. - sec. cor. to "B" = 53.26 chs. N.0°1'W.
 Return chaining - "B" to wit. cor. = 15.06 " S.0°1'E.
 Distance - sec. cor. to wit. cor. = 38.20 chs. N.0°1'W.

- 38.20 Set an iron post, 3 ft.long, 1 in.,diam. 10 ins. in the
ground, to bedrock, with marked stone (X) deposited
alongside, supported in a mound of stone, 3 ft.base,
2 ft.high, for witness cor. to 1/4 sec.cor., marked on
brass cap

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

WC
 $\frac{1}{4}$
 S 35 | S 36
 1930

- Asc., broken E. slope 50 ft.,
- 39.00 Foot of sandstone ledge, bearing NE. and SW.,
- 39.20 Along sloping surface ledge.
- 40.00 True point for $\frac{1}{4}$ sec.cor., falls upon surface rock, sloping steeply to the E.. Impracticable to set monument. Establish wit.cor. at 1.80 chs. S.0°1'E.
- Asc., over sandstone ledge 50 ft.,
- 44.00 Desc., 10 ft.,
- 47.20 Gully, course SE., Leave sandstone. Asc., S. slope 240 ft.
- 53.26 Triangulation point "B" on spur sloping SE. bearing NE.. Desc., NE. slope 50 ft.,
- 56.30 Head of gully, course E., Asc., 60 ft., along E. slope.
- 61.00 Ridge, bears NE. and SW. Desc., NW. slope 340 ft..
- 72.30 Gully, course NW.. Desc., along small spur sloping N., 80 ft.,
- 80.00 Set an iron post, 3 ft.long, 2 ins., in diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone. 4 ft.base, 3 ft.high, for the cor. of secs..25, 26, 35 and 36, marked on brass cap

T30N R23W
 S 26 | S 25
 S 35 | S 36
 1930

Land: rough and broken mountains.
 Soil: rocky, gravelly, 3rd. and 4th. rate.
 Timber: none.
 Undergrowth: greasewood, ^{2nd} cacti.

-
- East on random line bet. secs..25 and 36.
 - 40.00 Set temp., $\frac{1}{4}$ sec.cor.,
 - 80.00 Fall 5 lks., N. of the cor., of secs..25, 30, 31 and 36, on E. bdy., of Tp., hereinbefore described.
 - Thence N.89°58'W. on true line bet. secs..25 and 36.
 - Over mountainous land, thru scattered undergrowth.
 - Asc., NE. slope 80 ft.,
 - 1.50 Head of gully, course NE.,
 - 5.15 Spur, slopes steeply to the N., Desc., NW. slope 130 ft..
 - 9.75 Spur, slopes W., Desc., 80 ft., along same.
 - 16.75 Bluff, 20 ft. high, facing W.. Desc., W. slope 180 ft..
 - 24.25 Draw, course N., Asc., E. slope 125 ft.,
 - 29.30 Spur, slopes N.20°E., Desc., 30 ft.,
 - 30.90 Gully, course NE., Asc., 40 ft.,
 - 32.00 Spur, slopes NE., Desc., 10 ft.,
 - 33.50 Gully, course N.60°E., Asc., E. slope 130 ft.,
 - 39.30 Spur, slopes N.10°E., Desc., NW. slope 15 ft.
 - 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap

$\frac{1}{4}$ S 25
 S 36
 1930

- raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.,
- Desc., NW. slope 20 ft.,
- 41.00 Drain, course N., Asc., NE. slope 35 ft.,
- 47.70 Small spur, slopes N., Desc., 30 ft.,

Survey of Subdivisions of Fractional T.30 N., R.23 W.,

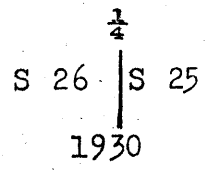
chains

- 49.90 Drain, course N., Asc., 30 ft..
- 56.00 Ridge, bears N., and SE., Desc., W. slope 350 ft..
- 67.40 Gulch, course N.75°W., Change of slope to NW., and desc. 95 ft..
- 75.50 Gully, course N.30°W., Asc., 25 ft..
- 77.60 Small spur, slopes N., Desc., 45 ft..
- 79.30 Gully, course N., Asc., 50 ft..
- 80.00 The cor..of secs.,25,26,35 and 36.

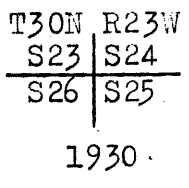
Land: rolling and broken mountains.
 Soil: rocky, and gravelly; 3rd.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw^{and} cacti.

N.0°01'W. bet.secs.,25 and 26.
 Over mountainous land, thru scattered undergrowth.
 Desc., N. slope 65 ft..

- 3.30 Draw, course N.60°W.. Along broken W. slope.
- 4.60 Spur, slopes W..
- 5.90 Gully, course W..
- 8.40 Spur, slopes NW..
- 10.00 Gully, course W., Asc.. SW.slope 365 ft..
- 29.00 Conglomerate bluff, bears NW. and SE., about 100 ft.high.
- 32.50 Along narrow ledge of bluff, at top of spur, sloping N..
- 35.90 Top of bluff, bears S.10°W. and N.25°E., Desc., 225 ft..
- 37.00 Foot of bluff.
- 40.00 Set an iron post, 3 ft.long, 1 in.,diam., 6 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone. 3 ft.base, 2½ ft.high, for ¼ sec.cor., marked on brass cap



- 52.70 Desc., NW.slope 260 ft..
- 52.70 Enter wash, course NW..
- 55.70 Leave wash. Asc., along broken W. slope 40 ft..
- 63.60 Flat spur, slopes W.. Desc.. 90 ft..
- 75.60 Wash, 1.50 lks.,wide, course W.. Asc., S. slope 90 ft..
- 80.00 Set an iron post, 3 ft.long, 2 ins.,diam., on bedrock, with marked (X) stone, deposited alongside, supported in a mound of stone, 5 ft.base, 3 ft.high. for the cor..of secs., 23,24,25 and 26, marked on brass cap



Land: broken mountains.
 Soil: gravels and rock, 3rd.and 4th.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw^{and} cacti.

- 40.00 S.89°58'E. on random line bet.secs.,24 and 25.
- 40.00 Set temp., ¼ sec.cor.,
- 79.84 Fall 10 lks., S. of the cor..of secs.,19,24,25 and 30, on the E. bdy. of the Tp., hereinbefore described,

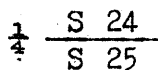
Thence

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

S.89°58'W. on true line bet,secs..24 and 25.
Over mountainous land, thru scattered undergrowth.
Across mesa.

- 5.00 Desc., W. slope 180 ft.,
- 12.50 Change of slope to NW., Desc., 180 ft.,
- 24.30 Gully, course N., Along N. slope. Asc., 80 ft.,
- 37.00 Spur, slopes N.. Desc., NW.slope 115 ft.,
- 39.92 Set an iron post,3 ft.long, 1 in.,diam.,10 ins.,in the ground, to bedrock, with marked stone (X) deposited alongside, supported in a mound of stone,3 ft.base, 2 ft.high, for 1/4 sec.cor., marked on brass cap



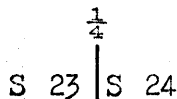
1930

- 51.50 Desc., NW.slope 380 ft.,
- Gully, course N.20°W.,
- 59.20 Bluff, 50 ft.high, facing W.,
- 62.40 Canyon, course W.,from NE. Desc., 70 ft.,
- 67.00 Leave canyon, course S.80°W., Asc., conglomerate bluffs facing S.. 170 ft.,
- 70.00 Slong rim of bluff 50 ft.high.
- 75.00 Desc., 80 ft.,over bluff, bearing NW. and S.80°E..
- 77.00 Desc., SW.slope 20 ft.,
- 79.84 The cor.,of secs..23,24,25 and 26.

Land: broken,mountainous.
Soil: gravel and rocky, 3rd. and 4th.rate.
Timber: none.
Undergrowth: greasewood, catclaw, and cacti.

N.0°01'W. bet.secs..23 and 24.
Over mountainous land,thru scattered undergrowth.
Asc., S. slope 220 ft.,

- 8.80 Spur, slopes SW., Along broken W. slope
- 17.80 Head of gully, course W.,
- 21.00 Saddle, in ridge, bearing NW. and SE., Along E. slope.
- 28.75 Spur, slopes NE., Desc., NE.slope 130 ft.,
- 34.70 Small spur, slopes E., Change to N. slope.
- 36.50 Gully, course NW..Along W. slope, Asc. 10 ft.,
- 40.00 Set an iron post,3 ft.long,1 in.,diam.,on surface rock, with marked (X) stone deposited alongside, supported in a mound of stone,5 ft.base,3 ft.high, for 1/4 sec.cor., marked on brass cap



1930

- 42.30 Desc., N. slope 50 ft.,
- Draw, course W.. Asc., broken S. slopel60 ft.,
- 54.30 Spur, slopes SE., Desc., 60 ft.,
- 60.00 Draw, course SE., from N., Asc., gradually along same.
- 67.30 Leave gully, course S., from NE.,
- 74.70 Same gully, course S.10°E., from NW., Asc., S. slope 100 ft.,
- 78.00 Small spur, slopes SE.. Along E. slope.
- 79.80 Drain, course SE.,
- 80.00 Set an iron post,3 ft.long, 2 ins.,diam.,12 ins.,in the ground, to bedrock, with marked stone.(X) deposited alongside, supported in a mound of stone. 3 ft.base, 2 ft.high, for the cor.,of secs..13,14,23 and 24,

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

marked on brass cap

T30N	R23W
S 14	S 13
S 23	S 24

1930

Land: rolling and broken mountains.
 Soil: gravel and rocky, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, cacti.

N.89°58'E. on random line bet. secs., 13 and 24.

- 40.00 Set temp., 1/4 sec. cor.
- 79.92 Fall 5 lks., N. of the cor., of secs., 13, 18, 19 and 24 on the E. bdy. of Tp., hereinbefore described,

Thence

West on true line bet. secs., 13 and 24.
 Over rolling gravel hills, thru scattered undergrowth.
 Desc., SW. slope 20 ft..

- 2.70 Enter wash, course SW.,
- 11.80 Leave wash, Asc., SE. slope 80 ft..
- 19.10 Spur, slopes SW., Desc., 90 ft.,
- 23.50 Gully, course SW., Asc., 70 ft.,
- 27.10 Spur, slopes S.,
- 30.50 Spur, slopes SW., Desc., NW. slope 125 ft.,
- 39.00 Cut wash, 15 ft. deep, 20 lks., wide, course SW., Asc., 50 ft.,
- 39.96 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for 1/4 sec. cor., marked on brass cap

1/4	S 13
	S 24

1930

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

- 41.50 Drain, course S. Over rolling land.
- 48.60 Gully, course S., Asc., SE. slope 65 ft.,
- 50.30 Spur, slopes S. Desc., 60 ft.,
- 52.90 Gully, course SW., Asc., 25 ft.,
- 54.50 Spur, slopes SW., Desc., 30 ft.,
- 55.60 Drain, course S., Asc., 45 ft.,
- 58.80 Spur, slopes SW., Desc., 5 ft.,
- 61.00 Spur, slopes SW., Desc., 60 ft.,
- 63.80 Gully, course SW., Asc., 25 ft.,
- 64.70 Spur, slopes SW., Desc., 25 ft.,
- 72.00 Wash, 20 lks., wide, course SW., Asc., 40 ft.,
- 73.70 Spur, slopes S., Along S. slope.
- 76.80 Spur, slopes S.,
- 79.92 The cor., of secs., 13, 14, 23 and 24.

Land: rolling hills.
 Soil: gravel, rocky. 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, cacti.

N.0°01'W. bet. secs., 13 and 14.

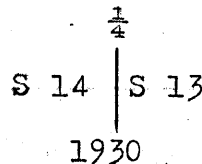
Over rolling and broken hills, thru scattered undergrowth.
 Asc., S. slope 30 ft.,

- 1.70 Spur, slopes SE., Asc., SE. slope 20 ft..

Survey of Subdivisions of Fractional T.30 N., R.23 W.

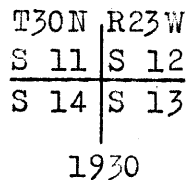
chains

- 3.80 Gravel ridge, bears NE. and SW. Desc., NW. slope 20 ft..
- 6.50 Drain, course SW., Asc., 70 ft..
- 11.00 Spur, slopes W., Desc., 70 ft..
- 15.50 Gully, course W., Asc., SE. slope 120 ft.,
- 26.00 Spur, slopes S.60°W.,
- 30.50 Drain, course S.10°W., Asc., 70 ft..
- 39.00 Spur, slopes W., Along W. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



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

- 40.25 Spur, slopes W., Desc., N. slope 30 ft.,
- 41.70 Drain, course W.,
- 49.00 Drain, course SW., Asc., S. slope 30 ft..
- 53.50 Spur, slopes W., Desc., 90 ft..
- 60.70 Drain, course W.,
- 66.75 Wash, 20 lks., wide, course W.,
- 68.90 Wash, 50 lks., wide, course W.,
- 74.40 Wash, 10 lks., wide, course W., Asc., S. slope 65 ft.,
- 78.30 Spur, slopes S.70°W., Desc., 30 ft..
- 79.90 Gully, course W.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., in diam., on bedrock, with a marked (X) stone deposited alongside, supported in a mound of stone 4 ft. base, 3 ft. high, for the cor. of secs., 11, 12, 13 and 14, marked on brass cap



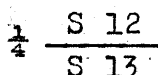
Land: rolling hills.
 Soil: gravel, rocky. 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, cacti.

East on random line bet. secs. 12 and 13.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.,
- 79.96 Fall 7 lks., N. of the cor., of secs. 7, 12, 13 and 18, on the E. bdy. of Tp., hereinbefore described,

Thence
 N.89°57'W. on true line bet. secs. 12 and 13.
 Over rolling hills, thru scattered undergrowth.
 Desc., NW. slope 50 ft.,

- 9.00 Spur, slopes N.65°W., Desc., W. slope 160 ft.,
- 17.20 Gully, course NW., Asc., 30 ft.,
- 20.50 Spur, slopes NW., Desc., W. slope 100 ft.,
- 25.60 Gully, course NW., Asc., 25 ft.,
- 28.00 Spur, slopes N., Desc., NW. slope 90 ft.,
- 33.60 Draw, course SW., Asc., 20 ft., along S. slope.
- 39.98 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



1930

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

Survey of Subdivisions of Fractional T.30 N., R.23 W.,

3888

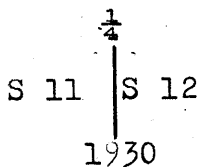
chains

- Desc., SW.slope 50 ft..
- 44.80 Draw, course S.80°W., Asc., 20 ft.,
- 47.50 Low spur, slopes S.70°W., Desc., 15 ft.,
- 49.00 Draw, course S.70°W., Asc., SE. slope 40 ft.,
- 55.00 Spur, slopes S.70°W., Desc., 35 ft.,
- 56.80 Gully, course SW., Asc., 10 ft.,
- 60.00 Spur, slopes S.60°W., Desc., 80 ft.,
- 63.40 Gully, course SW., Asc., 45 ft.,
- 66.30 Spur, slopes S., Asc., 20 ft.,
- 68.30 Spur, slopes SW., Desc., 30 ft.,
- 73.00 Gully, course SW., Asc., SE.slope 40 ft.,
- 74.80 Spur, slopes S.30°W., Desc., 25 ft.,
- 77.00 Spur, slopes S.70°W., Desc., 50 ft.,
- 79.80 Gully, course S.70°W.,
- 79.96 The cor., of secs..11,12,13 and 14.

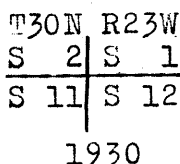
Land: rolling and broken hills.
 Soil: gravel, rocky, 3rd.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw,nd cacti.

 N.0°01'W. bet.secs..11 and 12.
 Over rolling and broken land, thru scattered undergrowth.
 Asc., S. slope 25 ft.,

- 1.30 Spur, slopes W., Desc., 30 ft.,
- 2.90 Gully, course W., Asc., 40 ft.,
- 4.80 Ridge-spur, slopes W., Desc., N. slope 80 ft.,
- 9.85 Draw, course NW., Along W. slope, asc., 30 ft.,
- 15.00 Spur, slopes NW., Desc., 80 ft.,
- 20.90 Draw, course W.,
- 23.40 Wash, 10 lks., wide, course W.,
- 27.40 Wash, 70 lks., wide, course W., Asc., 50 ft.,
- 31.90 Spur, slopes W., Desc., 50 ft.,
- 33.60 Gully, course NW., Asc., 50 ft.,
- 39.50 Spur, slopes W., Desc., 10 ft.,
- 40.00 Set an iron post, 3 ft.long, 1 in., diam., 4 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft.base, 2½ ft.high, for ¼ sec.cor.. marked on brass cap



- Desc., N. slope 70 ft.,
- 42.80 Draw, course NW., Asc., 35 ft.,
- 47.90 Spur, slopes W., Desc., 70 ft.,
- 50.35 Gully, course W., Asc., 35 ft.,
- 55.10 Spur, slopes W., Along W. slope.
- 57.15 Wash, course W., Asc., 40 ft.,
- 60.10 Spur, slopes W.,
- 63.60 Spur, slopes W.,
- 65.10 Gully, course W.,
- 67.60 Spur, slopes W., Desc., 50 ft.,
- 73.00 Gully, course W., Asc., 25 ft.,
- 74.50 Spur, slopes W., Desc., 50 ft.,
- 79.25 Wash, 30 lks., wide, course N.70°W., Asc., 5 ft.,
- 80.00 Set an iron post, 3 ft.long, 2 ins., diam., 30 ins., in the ground, for the cor.. of secs. .1,2,11 and 12, marked on brass cap



Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

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

Land: rolling hills.

Soil: gravel, rocky, 3rd. rate.

Timber: none.

Undergrowth: greasewood, cacti, ^{and} catclaw.

S. 89°57'E. on random line bet. secs. 1 and 12.

40.00 Set temp., $\frac{1}{4}$ sec. cor.,80.00 Fall 7 lks., S. of the cor., of secs. 1, 6, 7 and 12, on the
E. bdy., of Tp. hereinbefore described,

Thence

West on true line bet. secs. 1 and 12.

Over rolling and broken land, thru scattered undergrowth.
Asc., E. slope 50 ft.

3.40 Ridge-spur, slopes S. 85°W.,

10.60 Spur, slopes NW., Desc., N. slope 100 ft..

14.70 Head of gully, course N. 65°W., Desc., 110 ft., along N.W.
slope.

30.80 Gully, course N. 10°W., Asc., 30 ft..

33.60 Spur, slopes NW., Desc., 40 ft.

35.10 Drain, course NW., Asc., 5 ft..

38.00 Spur, slopes NW., Desc., W. slope 45 ft..

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins., in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
$$\frac{1}{4} \begin{array}{c} S \ 1 \\ S \ 12 \end{array}$$

1930

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

Desc., 40 ft..

41.80 Drain, course N. 20°W. Asc., 50 ft.,

44.50 Spur, slopes N. 20°W. Desc., 45 ft.,

46.10 Gully, course NW.,

49.40 Small spur, slopes NW., Desc., 60 ft..

52.90 Gully, course N., Asc., 25 ft.,

54.10 Spur, slopes N., Desc., 80 ft..

58.90 Draw, course N. 80°W., and along south side of same.

62.00 Draw, turns N., Over level land, draining NW., desc. 90 ft.

80.00 The cor., of secs. 1, 2, 11 and 12.

Land: broken hills, and rolling.

Soil: gravel, rocky, 3rd. rate.

Timber: none.

Undergrowth: greasewood, catclaw, ^{and} cacti..

N. 0°01'W. on random line bet. secs. 1 and 2.

40.00 Set temp., $\frac{1}{4}$ sec. cor.,80.04 Fall 2 lks., W. of the cor., of secs. 1, 2, 35 and 36, on
N. bdy., of Tp. hereinbefore described,

Thence

South on true line bet. secs. 1 and 2.

Over rolling and broken hills, thru scattered undergrowth.
Along E. slope.

3.50 Gully, course NE., Asc., NE. slope 140 ft..

8.60 Spur, slopes NE., Asc. along E. slope.

13.30 Head of gully, course NE.,

20.50 Low ridge, bears E. and W., Desc., S. slope 30 ft..

22.50 Wash, 5 lks. wide, course W., Asc., 30 ft..

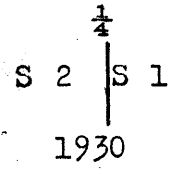
25.10 Spur, slopes W., Asc., gradually, 80 ft. along W. slope.

28.00 Spur, slopes W.,

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

38.25 Low ridge, bears E. and W., Desc., W. slope 15 ft.
40.04 Set an iron post, 3 ft. long, 1 in., diam. 30 ins. in the ground, for 1/4 sec. cor., marked on brass cap



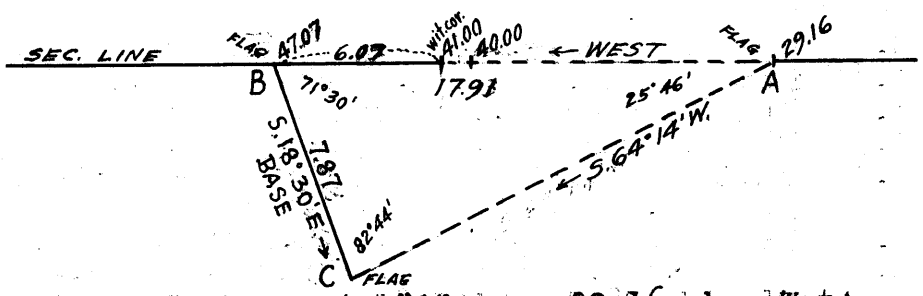
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.,

Asc., 15 ft.,
43.60 Spur, slopes SW., Over rolling land, gradual descent, 150 ft.,
57.00 Wash, 20 lks., wide, course W., Asc., 70 ft.,
60.40 Spur, from NE., slopes S. 20° W., Desc., SE. slope 100 ft.,
68.70 Wash, 30 lks., wide, course W., Asc., 30 ft.,
69.55 Small spur, slopes W., Over broken land, draining W.,
75.00 Asc., 40 ft., over gradual N. slope.
80.04 The cor., of secs. 1, 2, 11 and 12.

Land: broken and rolling.
Soil: gravel, rocky, 3rd. rate.
Timber: none.
Undergrowth: greasewood, catclaw and cacti.

From the cor., of secs. 25, 26, 35 and 36, hereinbefore described,
West on true line bet. secs. 26 and 35.
Over mountainous land, thru scattered undergrowth.
Desc., NW. slope 50 ft..

2.90 Gully, course N., Asc., 40 ft.,
4.70 Small spur, slopes N., Desc., 20 ft.,
6.15 Gully, course N., Asc., NE. slope 240 ft.,
14.00 Top of conglomerate bluff, 30 ft. high, bearing NW. and SE.,
Desc., along N. slope, 25 ft.,
15.00 Head of gulch, course N., Asc., NE. slope 80 ft.,
21.50 Change of slope to N., Desc., 15 ft.,
22.20 Rim of bluff, 100 ft. high, bears NE. and SW., Desc.,
over bluff 100 ft.,
23.65 Head of canyon, course N., Asc., 100 ft., to rim of bluff,
bearing N. and S.,
27.00 Asc., NE. slope 130 ft.,
29.00 Sharp spur, slopes N., Desc., 10 ft.,
29.16 Rim of bluff, 200 ft. high, bears N. and S., The precipitous character of the country to the west prevents further direct measurement.
At this point set a triangulation flag "A", and on line west set a flag "B", and at a point S. 64° 14' W. set a third flag "C". The bearing of the base "B-C" is S. 18° 30' E., and the distance is 7.87 chs.
The angle of depression of flag "B" from flag "A" is 25 1/2°.



Chained dist. - sec. cor. to "A" = 29.16 chs. West.
Triangulated dist. - "A" to "B" = 17.93 chs. West.
Dist. - sec. cor. to "B" = 47.07 chs. West.
Return chaining - "B" to wit. cor. = 6.07 " East.
Dist. - sec. cor. to wit. cor. = 41.00 chs. West.
40.00 True point for 1/4 sec. cor. on crest of small rocky peak, inaccessible.
41.00 Set an iron post, 3 ft. long, 1 in., diam., on bedrock, with a marked (X) stone, deposited alongside, supported in a mound of stone, 3 ft. base, 2 1/2 ft. high, for witness

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

corner to $\frac{1}{4}$ section corner, marked on brass cap
$$\frac{1}{4} \frac{S 26}{S 35} WC$$

1930

The true point for cor. of sec. 26 is the crest of a small rocky peak, the position is as follows.

From witness cor. on base line.

- Desc., NW. slope 80 ft.,
 44.30 Head of gully, course N., Asc., 30 ft.,
 47.00 Spur, extends N.70°W., Desc., SW. slope 60 ft.,
 47.07 Triangulation point 'B.'
 50.50 Head of gully, course SW., Asc., 30 ft.,
 54.00 Spur, slopes S., Desc., broken W. slope 110 ft.,
 58.40 Spur, slopes S.70°W., Desc., NW. slope 50 ft.,
 59.60 Gully, course SW., Asc. 10 ft.,
 61.00 Small spur, slopes SW. Desc., 40 ft.,
 62.70 Gully, course SW., Asc., 10 ft.,
 65.90 Spur, slopes SW., Desc., 35 ft.,
 71.00 Wash, from SE, flows S.70°W., Along S. slope, Asc., 10 ft.
 72.15 Point of small spur, from N., Rim of bluff extending NW.
 Desc., 130 ft.,
 75.80 Draw, course N.70°W., Across face of bluff along S. side
 of draw.
 78.60 Point of ledge on bluff, sharp spur breaks sharply NW.,
 Desc., W. slope 80 ft.,
 80.00 Set an iron post, 3 ft. long, 2 ins., diam., on bedrock,
 with marked (X) stone deposited alongside, supported
 in a mound of stone, 3 ft. base, 2½ ft. high, for the
 cor. of secs. 26, 27, 34 and 35, marked on brass cap

T30N	R23W
S 27	S 26
S 34	S 35

1930

Land: rough and broken mountains.

Soil: rocky, gravel and igneous, 3rd. and 4th. rate.

Timber: none.

Undergrowth: greasewood, catclaw and cacti.

S.0°01'E. on true line bet. secs. 34 and 35.

Over broken mountainous land, thru scattered undergrowth.

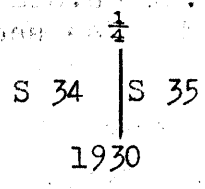
- Along W. slope,
 3.20 Gulch, course NW., Asc., N. slope 165 ft.,
 6.90 Peak of spur, from SW., Small point extends NE., Desc.,
 10 ft.,
 8.00 Drain, course N.20°E., Asc., along drain.
 10.00 Leave drain, Asc., N. slope 100 ft.,
 11.90 Spur, slopes NW., Continue ascent.
 15.10 Gully, course NW.,
 17.75 Small peak, ridge extends E., Spurs slope NW. and SW.,
 Desc., SE. slope 100 ft.,
 22.50 Draw, course SW., Asc., NW. slope 40 ft.,
 24.00 Small spur, slopes W., Along W. slope, Desc., 120 ft.,
 28.00 Draw, course W.,
 31.00 Draw, course S.80°W., Asc., NW. slope 85 ft.,
 34.75 Spur, extends W., Desc., 60 ft.,
 36.90 Head of gully, course W., Across W. slope,
 39.00 Spur, slopes W., Desc., 50 ft.,
 40.00 Set an iron post, 3 ft. long, 1 in., diam., on bedrock, with
 marked (X) stone deposited alongside, supported in a
 mound of stone, 3 ft. base, 3 ft. high, for $\frac{1}{4}$ sec. cor.

LOCK 3882

Survey of Subdivisions of Fractional T.30 N., R.23 W.

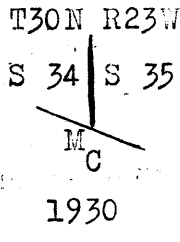
chains.

marked on brass cap



- 45.50 Desc., SE.slope 100 ft., Draw, course W., Asc., N. slope 170 ft..
- 50.80 Peak of spur, from NE., Desc., SE.slope 120 ft..
- 53.85 Gully, course S.20°W.,
- 55.30 Same gully, course S.20°E.. Desc., broken SE.slope 200 ft..
- 62.00 Change to S. slope, and over broken bench.
- 64.40 Desc., 10 ft. over rocky ledge, bearing NW. and E..
- 64.75 High water mark of left bank of Colo. River. Set an iron post, 3 ft.

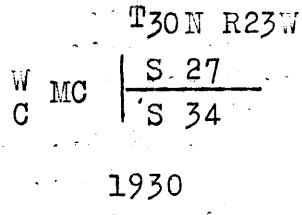
long, on surface rock of broken ledge, with marked (X) stone deposited alongside, supported in a mound of stone and concrete. 4 ft. base, 2½ ft. high, for the meander cor., of fractional secs..34 and 35, marked on brass cap



Land: rough and broken mountains.
Soil: rock and gravel, 4th. rate.
Undergrowth: scattered greasewood.
Timber: none.

From the cor..of secs..26,27,34 and 35, hereinbefore described, West on true line bet.secs..27 and 34.

- 0.25 Over broken mountainous land, thru scattered undergrowth. Precipitous gulch, 30 ft. deep, course N.
- 0.60 Sharp rock dyke, slopes NW., Desc., W. slope 180 ft.,
- 3.70 Top of bluff, 40 ft. high, bearing N. and S., Set an iron post, 3 ft. long, 1 in., diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone and concrete, for witness cor. to meander cor., of fractional secs. 27 and 34, marked on brass cap



- 4.00 Desc., 40 ft., High water mark of left bank of Colo. River, along face of bluff, bearing N. and S., Impracticable to monument meander cor. here. Establish wit. cor. 30 lks. E.
- Land: broken mountains.
Soil: rock, 4th. rate.
Timber: none.
Undergrowth: greasewood.

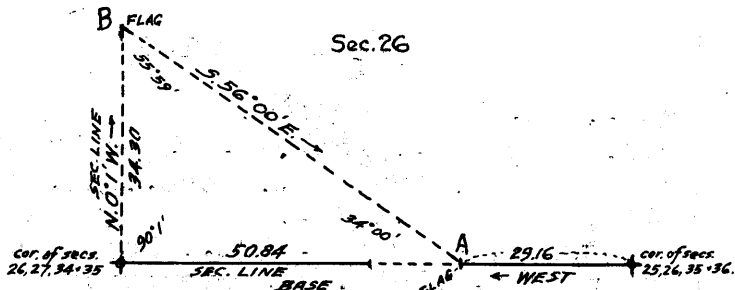
From the cor..of secs..26,27,34 and 35, hereinbefore described, N.0°01'W., bet.secs..26 and 27.

Over broken mountainous land, thru scattered undergrowth. Owing to the precipitous character of the country direct measurement to the north cannot be effected.

Survey of Subdivisions of Fractional T.30 N., R.23 W.

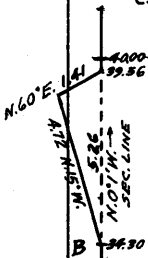
chains

Set triangulation flag "B" ahead on sec. line, from which flag "A" at 29.16 ch. station on line bet. secs. 26 & 35. bears S. 56° 00' E. Use sec. line base West 50.84 chs. The angle of depression to flag B. is 1°.



Triangulated dist. - sec. cor. to "B" = 34.30 chs. N. 0° 1' W.

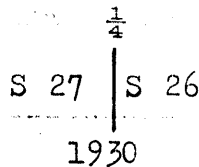
34.30 Flag "B". Point of gravel spur from SE. Precipitous bluffs to the north prevent chaining on sec. line, therefore traverse thru sec. 27 as follows: desc. 150 ft. N. W. E.



N. 15° W. 4.72 chs. = 4.56 1.22
to sharp rocky point
of dyke from E., across
mouth of draw from SE.
N. 60° E. 1.41 chs. = 0.70 1.22
to foot of cliff, 50 ft. high,
bearing NE. and SW. 5.26 00 00

39.56 End of traverse. Thence on sec. line, across sand dune.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins., in the ground, for 1/4 sec. cor. marked on brass cap



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

Desc., 20 ft.,

41.70 Wash. 50 lks., wide, mouth of canyon, course SW.,

Asc., precipitous SE. slope 130 ft.

49.60 Spur, extends SW., Desc., N. slope 90 ft.,

51.60 Draw, course W., Asc., 75 ft.,

52.65 Rocky spur, slopes SE., Desc., over 30 ft., bluff facing NE.,

54.30 Gulch, course S. 20° E., from N., Asc., along gulch 20 ft.,

55.30 Leave gully, from NE., Asc., 160 ft., along drain from N.

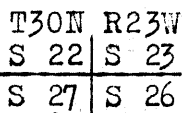
60.90 Sharp spur, extends W., Desc., precipitous N. slope 250 ft.

65.50 Canyon, course SW., Asc., broken SE. slope over cliffs and ledges 500 ft.,

77.00 Broken spur slopes SE., Desc., precipitous E. slope 40 ft.

79.50 Head of gulch, course E., Asc., 20 ft.,

80.00 Set an iron post, 3 ft. long, 2 ins., diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 3 ft. high, for the cor. of secs., 22, 23, 26 and 27, marked on brass cap



1930

Land: rough and broken mountains.

Soil: gravel and rock, 4th. rate.

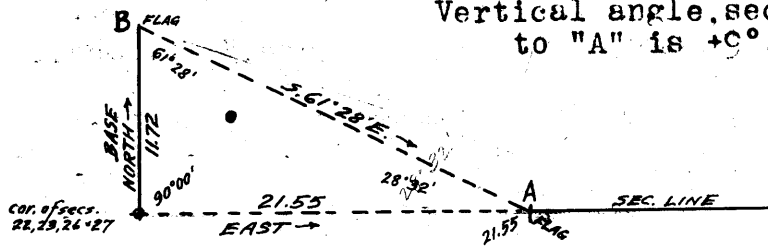
Timber: none.

Undergrowth: scattered greasewood and cacti.

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

East on random line bet.secs..23 and 26. Owing to the roughness of the country east direct measurement is impracticable. To determine distance across canyon set a flag "A" upon rim of cliff to the east, and a flag "B" north 11.72 chs., dist., from which flag "A" bears S.61°28'E.,



21.55 Triangulated dist. sec. cor. to "A" = 21.55 chs. East. Flag "A". Continue line & measurement by chaining.

40.00 Set tem. $\frac{1}{4}$ sec. cor.,

80.06 The cor., of secs..23, 24, 25 and 26.

Thence

West on true line bet.secs..23 and 26. Over broken mountainous land, thru scattered undergrowth. Over SW.slope, desc..50 ft.,

5.50 Gully, course S.. Asc., E. slope 125 ft.,

9.10 Rocky peak, on spur from NE., Desc., NW.slope 180 ft.,

12.60 Draw, course SW., Asc., SE.slope 100 ft.,

19.30 Spur, slopes S., Desc., 90 ft.,

23.10 Gully, course S.. Asc., 50 ft.,

26.50 Drain. course SE., Asc., E. slope 180 ft.,

33.40 Spur, slopes S., Desc., 50 ft.,

36.40 Gulch, course S.. Asc., 125 ft., over broken SE.slope.

40.03 Set an iron post, 3 ft.long, 1 in., diam., on bedrock with marked (X) stone, supported in a mound of stone, 3 ft.base, 2 $\frac{1}{2}$ ft.high, for $\frac{1}{4}$ sec.cor., marked on brass cap

$$\frac{1}{4} \frac{S \ 23}{S \ 26}$$

1930

45.00 Along S. slope; asc. 30 ft.. Saddle in ridge, bearing NE. and SW., Asc., NE.slope 120 ft.,

48.00 Along precipitous N. slope of rocky peak.

49.50 Desc., NW.slope 250 ft.,

58.51 Flag "A" on rim of bluff 100 ft.high, bearing NE. and SW. Across precipitous canyon about 500 ft.deep.

70.00 Estimated position of draw, course S. in box canyon. Asc., about 400 ft.,

80.06 The cor., of secs..22, 23, 26 and 27.

Land: rough mountains.
 Soil: rocky, 4th.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

West on true line bet.secs., 22 and 27. Asc., broken E. slope 100 ft.,

2.55 Sharp rocky spur, slopes S.. Desc., W. slope 110 ft.,

4.80 Gully, course SW., Across point of spur from N.,

5.90 Desc., precipitous W.slope 310 ft.,

12.00 Draw, course N.70°W., Desc., along NW.slope 160 ft.,

19.35 High water mark of left bank of Colorado River. Set an iron post, 3 ft.long, 1 in., diam., 30 ins..in the ground, for meander cor., of fractional secs., 22 and 27, marked on brass cap

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

T30N R23W

MC	S 22
	S 27

1930

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

Land: rough and broken mountains.

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

Timber: none.

Undergrowth: greasewood, catclaw, cacti and mesquite.

From the cor., of secs. 22, 23, 26 and 26, hereinbefore described, N. 0° 01' W. bet. secs., 22 and 23.

Over rough mountainous land, thru scattered undergrowth.

Along broken SE. slope. Asc., 480 ft.,

14.60 Point of broken cliff, bears NE. and NW., Continue ascent.

18.00 Over rolling mesa, extending NE.,

20.00 Rim of mesa, bearing NE. and SW., Desc., precipitous NW. slope 90 ft.,

22.50 Top of bluff, 50 ft. high, extending NE. and SW., Desc., 360 ft.,

33.70 Gulch, course W., Slope changes to SW., Asc., 100 ft., along drain.

38.50 Short spur, bears SW., Desc., 10 ft.,

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$	S 22	S 23
	1930	

1930

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

Asc., 20 ft.,

41.25 Small spur, slopes W., Desc., 50 ft.,

42.00 Gully, course W., Asc., 85 ft.,

43.30 Spur, slopes W., Desc., 45 ft.,

44.50 Gully, course W., Asc., 20 ft.,

47.00 Spur, slopes W., Desc., 25 ft.,

48.40 Gully, course W., Asc., 60 ft.,

50.25 Low ridge, bears E. and W., Desc., N. slope 75 ft.,

52.50 Gully, course NW., Over rolling land, draining NW., Desc., 150 ft.,

58.50 Wash, 20 lks. wide, course NW.,

67.60 Enter wash, course NW.,

72.60 Leave wash, course W., Asc., S. slope 95 ft.,

78.25 Ledge of rocky peak extending SE. Desc., 20 ft.,

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for the cor., of secs. 14, 15, 22 and 23, marked on brass cap

T30N R23W

S 15	S 14
S 22	S 23

1930

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

Land: rough, broken and rolling mountains.

Soil: gravel, rocky, 3rd. rate.

Timber: none.

Undergrowth: greasewood, catclaw and cacti.

Survey of Subdivisions of Fractional T. 30 N., R. 23 W.

- Chains East, on random line, bet. secs. 14 and 23.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Fall 5 lks. S. of the cor. of secs. 13, 14, 23 and 24.
Thence
S. $89^{\circ} 58'$ W., on true line, bet. secs. 14 and 23.
Over broken hills, thru scattered undergrowth.
- 0.10 Drain, course SE. Asc. E. slope 30 ft.
- 3.20 Small spur, slopes SE. Desc. 30 ft.
- 7.75 Gully, course S. Asc. 60 ft.
- 13.40 Ridge, bears S. 70° W. and N. 80° E. Bluff 40 ft. high,
facing NW. Desc. broken NW. slope 100 ft.
- 18.60 Bluff, 50 ft. high, facing W. Desc. 70 ft.
- 21.85 Gulch, course N. Asc. 40 ft.
- 23.90 Spur, slopes NW. Desc. 125 ft.
- 29.60 Gully, course N. Along N. slope. Asc. 15 ft.
- 32.00 Desc. W. slope 85 ft.
- 34.80 Wash, 20 lks. wide, in draw, course S. 20° W. Asc. SE.
slope 75 ft.
- 38.50 Spur, slopes S. Desc. SW. slope 45 ft.
- 40.02 Set an iron post, 3 ft. long, 1 in. diam. 8 ins. in the
ground, to bedrock, with a marked (X) stone deposited
alongside, supported in a mound of stone, 4 ft. base,
 $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ $\frac{S 14}{S 23}$
1930

- Desc. SW. slope 20 ft.
- 42.20 Gulch, course S. Asc. E. slope 125 ft.
- 45.50 Rim of sandstone ledge, bearing N. and S. Continue as-
cent along S. slope.
- 49.00 Rim of bluff, 30 ft. high, bears NW. and S. Desc. W.
slope 60 ft.
- 58.00 Short spur, slopes N. Change of slope to NW.
- 61.70 Gully, course NW. Asc. 20 ft.
- 62.90 Short spur, slopes N.
- 66.30 Spur, slopes N. Desc. NW. slope 85 ft.
- 69.70 Wash, course SW.
- 71.30 Wash, 10 lks. wide, (same) course NW. Asc. NE. slope,
110 ft.
- 77.00 Top of conglomerate bluff, 30 ft. high, bearing NW. and SE.
- 79.00 N. end of rocky peak, extending SE. Desc. over bluff
60 ft.
- 80.04 The cor. of secs. 14, 15, 22 and 23.

Land; rolling and broken hills.
Soil: gravel, rocky, 3rd rate.
Timber: none.
Undergrowth: greasewood, catclaw and cacti.

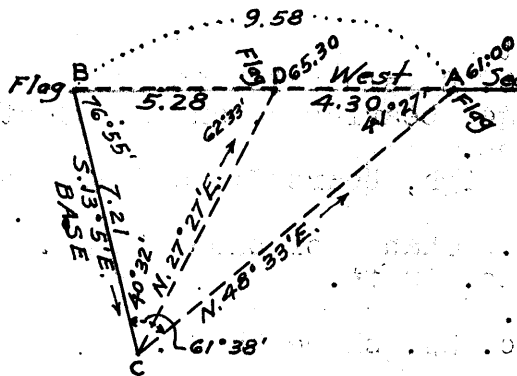
-
- West, on true line, bet. secs. 15 and 22.
Over broken and mountainous land, thru scattered under-
growth.
 - Desc. NW. slope 50 ft.
 - 2.10 Gully, course N.
 - 5.00 Spur, slopes NW. Desc. NW. slope 130 ft.
 - 12.40 Wash, 20 lks. wide, course NW. Asc. NE. slope 100 ft.
 - 16.50 Spur, slopes N. Desc. 60 ft.
 - 17.70 Short spur, slopes N. Along broken N. slope.
 - 24.65 Foot of bluff, 100 ft. high, facing NE. Asc. 286 ft.
 - 25.00 Gulch, course NE.
 - 29.90 Ridge, bears S. and NW. Desc. W. slope 170 ft.

Survey of Subdivisions of Fractional T. 30 N., R. 23 W.

- Chains
- 34.25 Gulch, course N. 20° W., asc. 25 ft.
- 37.50 Sharp spur, slopes N. Desc. 60 ft.
- 38.00 Gulch, course N. Asc. 60 ft.
- 39.80 Spur, slopes N. Desc. 10 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 2½ ft. high, for ¼ sec. cor., marked on brass cap.

$\frac{1}{4}$ S. 15
 S 22
 1930

- Dese. N. slope 10 ft.
- 40.50 Drain, course N. Asc. NE. slope 75 ft.
- 44.10 Spur; extends NW. Desc. SW. slope 90 ft.
- 48.10 Draw, course N. 70° W. Along N. slope.
- 49.50 Small spur; slopes N. Desc. NW. slope 90 ft.
- 53.15 Head of gulch, course NW. Desc. along N. slope 20 ft.
- 54.10 Spur, slopes N. 80° W. Desc. 110 ft.
- 61.00 Sharp spur, slopes N. 80° W. Remainder of sec. line passes over broken cliffs and ledges, preventing continuation of measurement by chaining. Triangulate as follows:



Set flag "A" at this point.
 Set flag "B" west at a point on right bank of Colorado River.
 Set flag "D" east from "B" at a point on left bank of Colorado River at high water mark.
 From "B" measure a base along the right bank of river 7.21 chs. S. 13° 5' E. to point "C".
 Bearing "C-A" = N. 48° 33' E.
 Bearing "C-D" = N. 27° 27' E.
 Vertical angle "B-A" = + 32½°
 Vertical angle "B-D" = + 4°

Triangulated dist. - "A" to "B" = 9.58 chs. West.
 " " " " "B" to "D" = 5.28 " East.
 Dist. - "A" to "D" = 4.30 chs. West.
 Dist. - sec. cor. to "A" = 61.00 " "
 Length of sec. line = 65.30 chs. West.

- 65.30 Flag "D" at high water mark of left bank of Colorado River, on sloping face of bluff, bearing N. 10° W. & S. 10° E. At this point, set an iron post, 3 ft. long, 1 in. diam. against cross (X) marked on face of bluff, supported in a mixture of concrete and gravel, for meander cor. of secs. 15 and 22, marked on brass cap

T 30 N R 23 W
 S 15
 M C S 22
 1930

Land, broken and mountainous.
 Soil, gravel and rock, 3rd and 4th rate.
 Timber, none.
 Undergrowth, greasewood, catclaw and cacti.

From the cor. of secs. 14, 15, 22 and 23, hereinbefore described.
 N. 0° 01' W., bet. secs. 14 and 15.
 Over rolling and mountainous land, thru scattered undergrowth.

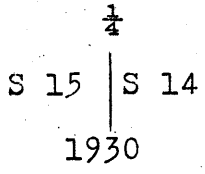
- 0.80 Short spur, slopes W. Desc. 30 ft.
- 6.70 Wash, 10 lks. wide, course S. 60° W. Asc. 25 ft.
- 9.75 Low ridge, bears E. and W. Desc. NE. slope 82 ft.
- 15.75 Enter wash, 20 lks. wide, course N., from SE.
- 22.70 Leave wash, course NW. Asc. 15 ft.

Survey of Subdivisions of Fractional T.30 N.,R.23 W.

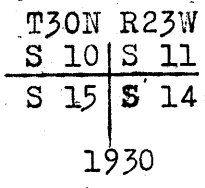
BOOK 8888

chains

- 27.70 Low spur, slopes W., Desc., 30 ft.,
- 29.60 Wash. 40 lks.,wide, course N.60°W., Asc., 50 ft.,
- 32.30 Spur, slopes W., Desc., 25 ft.,
- 35.00 Wash. 10 lks.,wide, course W., Asc., broken S. slope 135 ft.,
- 40.00 Set an iron post,3 ft.long, 1 in.,diam., on bedrock. with a marked (X) stone deposited alongside, supported in a mound of stone.4 ft.base, 3 ft.high, for 1/4 sec.cor., marked on brass cap



- 40.40 Asc., face of bluff 30 ft.,high. bearing NE., Along W. slope.
- 43.15 Gully, course SW., Asc., S. slope 450 ft.,
- 54.00 Bluff. 100 ft.high. bearing NW. and SE.,
- 55.55 Top of bluff. and apex of rocky peak on ridge, bearing NW. and SE., Desc., NE.slope 135 ft.
- 64.50 Short spur, slopes E., Continue descent 130 ft.,
- 74.40 Drain, course NE.. Along E. slope.
- 76.60 Low spur, slopes NE., Desc., 30 ft.,
- 79.00 Drain, course E.,
- 80.00 Set an iron post,3 ft.long,2 ins.,diam.,30 ins..in the ground, for the cor.,of secs.,10,11,14 and 15, marked on brass cap

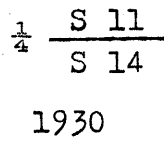


Land: rolling and mountainous.
 Soil: gravel and rock, 3rd.rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

- 40.00 N.89°58'E. on random line bet.secs.,11 and 14. Set temp.,1/4 sec.cor.,
- 80.00 Fall 7 lks..S. of the cor.,of secs.,11,12,13 and 14.

Thence
 S.89°55'W. on true line bet.secs..11 and 14.
 Over rolling and mountainous land, thru scattered undergrowth.

- 3.10 Along S. slope.
- 3.10 Small spur, slopes SW., Desc.. W. slope 40 ft.,
- 5.25 Gully, course SW., Asc., 50 ft.,
- 8.10 Spur, slopes S., Desc., 70 ft.,
- 12.50 Gully, course S., Asc., 30 ft.,
- 13.90 Small spur, slopes S.,
- 16.40 Gully, course SE., Asc., E. slope 150 ft.,
- 24.00 Point of rocky hill extending to the north.
- 24.60 Spur, slopes SW., Desc., W. slope 370 ft.,
- 39.55 Wash, 10 lks.,wide, course N.20°W.. Asc., 5 ft.,
- 40.00 Set an iron post,3 ft.long,1 in.,diam.,30 ins..in the ground, for 1/4 sec.cor., marked on brass cap



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

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

- Over rolling desert.
- 51.00 Small spur, 30 ft. high, bears N., Desc., SW. slope 80 ft.,
- 53.50 Enter wash, course NW.,
- 59.00 Leave wash. Asc., NE. slope 50 ft.,
- 63.50 Spur, slopes N., Desc., W. slope 175 ft.,
- 68.80 Draw, course N., Asc., NE. slope 116 ft.,
- 72.50 Flat spur, slopes N., Over N. slope.
- 75.15 Gully, course NE., Asc., along E. slope.
- 80.00 The cor., of secs., 10, 11, 14 and 15.

Land: rolling and broken mountains.
 Soil: gravel, rocky, 3rd. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

 West on true line bet. secs., 10 and 15.
 Over broken mountainous land, thru scattered undergrowth.
 Asc., E. slope 65 ft.,

- 2.10 Small rocky spur, slopes NE., Along NE. slope.
- 5.40 Gully, course NE., Asc., NE. slope 160 ft.,
- 10.90 Ridge, bears NW. and SE., Desc., SW. slope 280 ft.,
- 21.50 Bluff, 50 ft. high, bears N. and SE., Desc., 280 ft.,
- 26.10 Head of gully, course S., Along S. slope.
- 27.80 Short spur, slopes SW., Desc., 60 ft.,
- 31.90 Spur, slopes NW., Desc., SW. slope 85 ft.,
- 34.00 Small draw, course SW., Asc., 15 ft.,
- 35.30 Spur, slopes SW., Desc., 30 ft.,
- 38.15 Gully, course SW., Along S. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a marked (X) stone deposited alongside, supported in a mound of stone, 3 ft. base, 2 1/2 ft. high, for 1/4 sec. cor., marked on brass cap

1/4 S 10
 S 15

1930

- 41.05 Small spur, slopes S., Desc., 30 ft.,
- 41.90 Gully, course S., Asc., 20 ft.,
- 43.00 Short spur, slopes S., Desc., 35 ft.,
- 45.00 Head of gully, course S. Asc., 25 ft.,
- 47.50 Spur, slopes S. Desc., over bluff, 40 ft. high.
- 48.00 Draw, course SW., Asc., 40 ft.,
- 50.00 Narrow spur, slopes S., Desc., 50 ft.,
- 50.90 Gulch, course S. Asc., 25 ft.,
- 53.90 Point of spur, from N., Desc., 5 ft.,
- 54.20 Top of bluff, 140 ft. high., bears N., and S., Thence on traverse:



	N.	S.	E.	W.
N. 30° W., 2.60 chs. =	2.25			1.30
S. 23° E., 2.45 chs. =		2.25	0.95	
	00	00	00	0.35

- 54.55 End of traverse, and point on sec. line at high water mark of left bank of Colorado River, on rocky ledge at foot of bluff, bearing NE. and SW., Set an iron post, 3 ft. long, 1 in. diam., in crevice of ledge, with marked stone (X) deposited alongside, supported in a mound of stone and concrete, for meander cor., of fractional secs., 10 and 15, marked on brass cap

T30N R23W
 MC | S 10
 S 15

1930

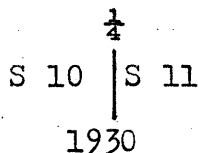
Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

Land: broken and rolling mountains.
Soil: gravel, rocky, 3rd. and 4th. rate.
Timber: none.
Undergrowth: greasewood, catclaw, and cacti.

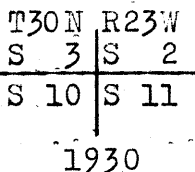
From the cor., of secs., 10, 11, 14 and 15, hereinbefore described,
N.0°01'W. bet. secs. 10 and 11.

- Over broken mountainous land, thru scattered undergrowth.
Asc., SE. slope 25 ft.,
- 2.00 Short rocky spur, slopes E., Desc., N. slope 100 ft.,
- 9.25 Gully, course E., Along rocky E. slope, descend 50 ft.,
- 11.55 Small spur, slopes E.,
- 14.55 Gully, course E.,
- 16.15 Rim of bluff, 100 ft. high, bearing NW. and S.20°E.,
Desc., 120 ft.,
- 16.50 Enter draw, course N.10°W.,
- 20.60 Leave draw, Asc., along rocky W. slope 50 ft.,
- 30.00 Change of slope to NW., Desc., 45 ft.,
- 33.35 Short draw, course W., Asc., S. slope 190 ft.,
- 37.20 Top of bluff, facing S., 50 ft. high, at crest of spur
extending N.70°W., Desc., N. slope 55 ft.,
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the
ground, for 1/4 sec. cor., marked on brass cap



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

- Desc., N. slope 170 ft.,
- 47.00 Draw, course W., Asc., precipitous S. slope 140 ft.,
- 49.90 Rim of bluff, 100 ft. high, facing S., Along E. slope.
- 52.25 Drain, course SE., Asc., S. slope 60 ft.,
- 57.60 Small spur, slopes SW., Desc., 60 ft.,
- 61.80 Wash, 30 lks., wide, course S.70°W., Asc., 20 ft.,
- 62.50 Spur, slopes W., Desc., 10 ft.,
- 65.15 Gully, course S.70°W., Asc., 40 ft.,
- 67.30 Spur, slopes W., Desc., 25 ft.,
- 70.00 Gully, course SW., Asc., 25 ft.,
- 73.40 Gulch, course S.20°W., Asc., SE. slope 170 ft.,
- 77.00 Small bluff, bears NE. and SW.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., on bedrock, with
marked (X) stone, deposited alongside, supported in a
mound of stone, 4 ft. base, 3 ft. high, for the cor., of
secs., 2, 3, 10 and 11, marked on brass cap



Land: broken and rolling mountains.
Soil: rocky, 3rd. rate.
Timber: none.
Undergrowth: greasewood, catclaw, and cacti.

- N.89°55'E. on random line bet. secs. 2 and 11.
- 40.00 Set temp., 1/4 sec. cor.,
- 80.02 Fall 7 lks., N., of the cor., of secs., 1, 2, 11 and 12.

Thence
S.89°58'W. on true line bet. secs., 2 and 11.

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains	Over rolling and mountainous land, thru scattered undergrowth.
0.50	Enter wash, course NW.,
4.40	Leave wash, course N., Asc., 10 ft..
6.20	Short spur, slopes N., Desc., 20 ft..
8.50	Wash, course N., Asc., E. slope 80 ft.,
15.00	Spur, slopes NE., Desc., 50 ft..
18.70	Wash, course NE., Asc. E. slope 75 ft..
23.30	Ridge, bears N., and S., Desc., W. slope 165 ft..
32.00	Wash, course S. 80° W.,
37.00	Same wash, 15 lks., wide, course N. 70° E.. Over rolling desert, Desc., 40 ft..
40.01	Set an iron post, 3 ft. long, 1 in. diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S 2 S 11
	1930
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Desc., 30 ft.,
49.40	Wash, 20 lks., wide, course NW.. Along N. slope.
51.00	Small spur, slopes N., Desc., 30 ft..
53.00	Wash, 10 lks., wide, course N., Asc., E. slope 110 ft.,
60.80	Top of narrow sandstone ledge, extending S., Desc., 40 ft.,
63.50	Head of gulch, course S., Asc., E. slope 120 ft.,
67.00	Spur, slopes S., Desc., 60 ft..
69.50	Gulch, course S., Asc., 95 ft.,
73.00	Spur of rocky mesa extends S., Desc., 100 ft..
78.60	Gulch, course S., Asc., 40 ft..
80.02	The cor., of secs. 2, 3, 10 and 11.
	Land: rolling and mountainous.
	Soil: gravel and rocky, 3rd. rate.
	Timber: none.
	Undergrowth: greasewood, catclaw, cacti.

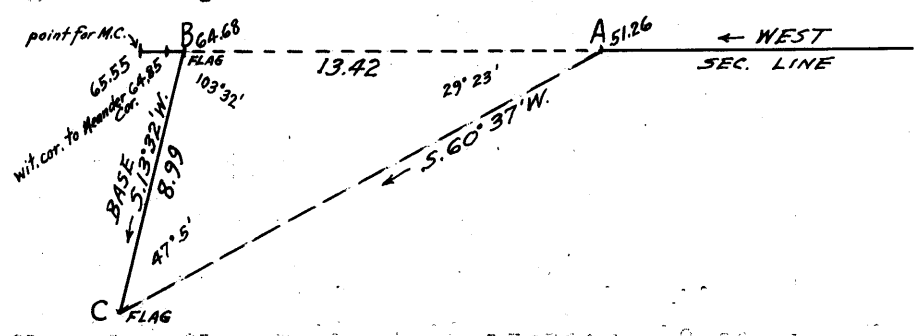
	West on true line bet. secs. 3 and 10.
	Over mountainous land, thru scattered undergrowth.
	Asc., SE. slope 90 ft.,
m3.20	Top of bluff, 50 ft. high, bearing NE. and S.,
3.50	Spur, extends S.,
4.15	Rim of bluff, 50 ft. high., bearing N., and S., Desc., W. slope 260 ft.,
12.30	Wash, 20 lks., wide, course S., Asc., E. slope 155 ft.,
17.80	Small spur, slopes SE., Desc., 15 ft..
19.50	Gully, course SE., Asc., 115 ft.,
26.50	Ridge, bears N., and S., Desc., W. slope 115 ft.,
30.00	Gully, course N., Asc., NE. slope 100 ft.,
32.90	Small spur, slopes N.
33.90	Gully, course NE.,
39.50	Drain, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 3 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S 3 S 10
	1930
	Asc., NE. slope 150 ft.,

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

49.90 Flat spur, from SE., breaks sharply to the N., Desc., precipitous W. slope 40 ft.,

51.26 Broken ledges and cliffs to the west prevent chaining beyond this point, therefore triangulate as follows: Designate this point "A" and set flags "B" and "C". B. West and S. 60°37' W. respectively. The base measured between the flags is 8.99 chs. S. 13°32' W. The angle of depression from A. to B. is 44°.



From flag B. flag C. bearing S. 13°32' W. 8.99 chs., Distance - sec. cor. to point "A" = 51.26 chs. West. Triangulated dist. - "A" to "B" = 13.42 " " Distance - sec. cor. to flag "B" = 64.68 chs. West. which gives.

64.68 Rocky point of short spur, from base of cliff to SE., Desc., 5 ft., to ledge of bluff, bearing NW. and S.,

64.85 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with marked (X) stone deposited alongside, supported in a mound of stone and concrete, 3 ft. base, 2½ ft. high, for witness cor., to meander cor., of fractional secs., 3 and 10, marked on brass cap

T30N R23W

WC	M	S	3
	C	S	10

1930

The meander cor., of secs., 29 and 32, T.22S., R.65 E., M.D.M., Nevada, which is an iron post, 1 in., diam., 2 ins., above a supporting mound of stone, 4 ft. base, 34 ins., high, properly marked on brass cap, bears S. 31°26' W., 18.70 chs., dist.,

Desc. over face of bluff, 130 ft.

65.55 High water mark of left bank of Colorado River, against face of bluff, bearing NW. and S. Impracticable to monument meander cor. here. Establish wit. cor. 70 lks. E.

Land: rolling and rough mountains.
 Soil: gravelly, rocky, 3rd. and 4th. rate.
 Timber: none.
 Undergrowth: greasewood, catclaw, and cacti.

From the cor. of secs., 2, 3, 10 and 11, hereinbefore described, N. 0°01' W. on true line bet. secs., 2 and 3. Over broken and mountainous land, thru scattered undergrowth.

1.30 Asc., SE. slope 65 ft., Top of conglomerate bluff, facing SE., Asc., 40 ft., over rolling SE. slope.

6.30 Small spur, slopes SW., Desc., N. slope 45 ft.,

8.75 Gully, course W., Asc., 80 ft.,

15.40 Short spur, slopes W., Desc., 30 ft.,

17.60 Head of gully, course SW., Along W. slope.

20.00 Low divide, or ridge, bears E. and NW., Desc., NW. slope 50 ft.,

Survey of Subdivisions of Fractional T.30 N., R.23 W.

chains

- 22.00 Desc., N. slope 170 ft.,
 29.60 Gully, course NE., Change of slope to NE., Desc., 50 ft.,
 35.00 Top of bluff, 50 ft. high, bears NW. and SE., Desc.,
 precipitous NE. slope 160 ft.,
 39.50 Small bluff, 30 ft. high, facing NE.,
 40.00 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with
 a marked (X) stone deposited alongside, supported in
 a mound of stone, 4 ft. base, 3 ft. high, for $\frac{1}{4}$ sec. cor.,
 marked on brass cap

$\frac{1}{4}$
 S 3 S 2
 1930

- Desc., NE. slope 100 ft., over broken ledges.
 41.00 Canyon, course NW., Asc., Precipitous SW. slope 140 ft.,
 49.80 Sharp ledge of bluff, of steep spur, sloping N. 70° W.,
 Desc., N. slope 175 ft.,
 53.60 Gulch, course W., Asc., SW. slope 25 ft.,
 54.15 Rocky spur, slopes N. 80° W., Desc., N. slope 215 ft.,
 59.20 Draw, course NW., Along W. slope, Asc., 25 ft.,
 62.05 Small spur, slopes NW., Desc., N. slope 140 ft.,
 64.50 Gulch, course NW., Along W. slope.
 66.20 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with
 a marked (X) stone deposited alongside, supported in
 a mound of stone, 4 ft. base, 3 ft. high, for witness
 cor., to meander cor., of fractional secs., 2 and 3,
 marked on brass cap

WC
 MC

 S3 | S2
 T30NR23W
 1930

- 66.25 Desc. 125 ft. over face of bluff, bearing NE. and SW.
 66.65 High water mark of left bank of Colorado River, on face
 of perpendicular bluff, bearing NE. and SW., Impracticable
 to monument meander cor. here. Establish wit. cor. 45 lks.
 S. 0° 1' E.
 Land: rough, rolling and broken mountains.
 Soil: gravel and rock, 3rd. and 4th. rate.
 Timber: none.
 Undergrowth: greasewood, and cacti.
-

Survey of Meanders of BOOK 3888
Left Bank of Colorado River thru Fractional T.30 N., R.23 W.

From the meander cor., of fractional secs. 2 and 35, on N., bdy. of Tp. hereinbefore described. Along left margin of river at mean high water, downstream thru sec., 2.

Along face of bluff.

- S. 49°W. 0.50 chs.,
- S. 27°W. 3.35 Leave face of bluff, along rubble slope, at base of cliff.
- S. 31½°W. 2.40
- S. 49°W. 1.25
- S. 43°W. 4.75 To face of bluff, 100 ft. high.
- S. 6°W. 1.00
- S. 56°W. 1.45
- S. 55°W. 0.85
- S. 37°W. 1.85 chs. to true point for meander cor. of secs. 2 and 3, witnessed 45 lks. S. 0°1'E. as hereinbefore described.
- S. 0°1'E. 0.45

Land: precipitous cliffs.
Soil: rock, 4th., rate.
Timber: none.
Undergrowth: scattered catclaw.

From true point for meander cor. of secs. 2 and 3, meander cor. of secs. 2 and 3.
Along left margin of river, down stream thru section 3.

Along face of bluff, 100 ft. high.

- S. 52½°W. 4.60 chs.
- S. 41°W. 1.90
- S. 47°W. 4.40
- S. 45°W. 1.60
- S. 22°W. 2.40
- S. 9°W. 1.10
- S. 31°E. 4.15 To mouth of canyon from SE.
- N. 68°W. 3.30 Along face of bluff 100 to 500 ft., in height.
- West 1.00
- S. 54°W. 1.90
- S. 32°W. 2.45
- S. 54°W. 1.70
- S. 46°W. 1.20
- S. 56°W. 2.70
- S. 3°E. 0.70
- S. 32°W. 0.40
- S. 60°W. 2.60
- S. 61°W. 1.40
- S. 58°W. 4.00
- S. 30°W. 0.20 To 20" steel caison, housing water guage; scaffolding and platform.
- S. 39°W. 2.25
- S. 48°W. 4.00
- S. 25°W. 0.50
- S. 71°W. 2.10
- S. 49°W. 0.80
- S. 63°W. 2.70
- S. 54°W. 2.50
- N. 60°W. 0.60 Along rubble point at base of cliff.
- S. 59°W. 0.50 Along base of cliff.
- S. 51°W. 1.60 Along rocky scarp.
- S. 60°W. 4.05 U.S. Reclamation Service bench mark, which is a brass cap,

Survey of Meanders of
Leftbank of Colorado River thru Fractional T.30 N., R.23 W.

3 in., diam., imbedded in top of
an igneous boulder, 4 x 3 x 2 ft.,
above ground, marked
Elevation
Above Sea
690.30
Feet
bears S.87 $\frac{1}{4}$ °E.
1.31 chs., dist.,

A stake, 2 in., square, 2 ft.,
above a supporting mound of stone,
at base of cliff, marked Line D.
(representing the E. center line
of proposed Boulder Dam) bears
S.39 $\frac{1}{4}$ °E. 0.93 chs., dist.;

S.39°W.	1.00	chs.:	
S.30°W.	1.20		To face of cliff about 600 ft. high.
S.46°W.	1.60		
S.42°W.	7.80		
S.50°W.	0.70		
S.48°W.	1.50		
S.46°W.	0.40		Along broken ledges at base of cliff.
S.54°W.	2.30		
S.36°W.	6.00		
S.59°W.	1.00		
S.17°W.	1.30		To wooden scaffolding and platform rising 40 ft. above river.
S.32°W.	2.80		Along broken ledges at base of cliff.
S. 4°W.	2.20		
S.24°W.	2.50		
S.33°W.	0.40		
S.31°W.	1.50		
S.53°W.	2.00		
S. 6°E.	0.90	chs. to true point for meander cor. of	secs. 3 and 10, witnessed 70 lks.
	0.70		E. as hereinbefore described.
			The witness meander cor. of secs. 3 and 10.

Land: cliffs and broken ledges.
Soil: none.
Timber: none.
Undergrowth: none.

From a point 0.70 chs., west on the witness meander cor.,
From true point for meander cor. of secs. 3 and 10,
Along left margin of river, downstream thru sec. 10.

S.35°E.	2.00	chs.	Leave cliff; across broken W. slope.
S.30°W.	4.20		
S. 6°W.	2.40		
S.26°W.	2.70		To face of broken cliff 100 ft., high.
S.85°W.	0.90		
S.17°E.	3.00		
S.73°W.	0.50		
S. 3°W.	1.50		
S.11°E.	3.60		

Survey of Meanders of
Left bank of Colorado River thru Fractional T.30 N., R.23 W.

S.52°E.	1.10	chs.,	
S. 9°W.	2.00		
South	6.80		
S. 8°E.	2.00		
S.15°E.	1.90		
S.17°E.	10.00		
S.12°E.	3.10		Along rocky broken slope.
S. 5°E.	2.10		
S.16°W.	2.10		
S. 6°E.	0.90		
S.42°E.	2.80		Hot springs along base of cliff, mouth of gully, draining from NE.,
S.2° E.	2.70		Leave hot springs. Along broken cliffs and ledges.
S.29°E.	3.30		
S. 4°E.	2.60		
South	2.00		
N.42°E.	1.20		Mouth of draw, from NE., canyon walls 100 ft.high.
S.11°W.	1.20		
S. 8°W.	2.80		
S.19°E.	3.30		
S.11°E.	3.50		
S.18°E.	2.00		
S. 6 W.	1.00		
S.35°E.	1.30		
S.16°W.	0.90		
S.23°E.	1.40		
S.45°E.	1.00		
S.30°E.	1.00		
S.12°E.	1.40	chs.	To meander cor., of fractional secs., 10 and 15, hereinbefore described.

Land: cliffs and ledges.
Soil: rock, 4th rate.
Timber: none.
Undergrowth: none.

Along left margin of river, at mean highwater mark,
downstream thru sec., 15.

Along face of cliff 100 ft.high.

S.22°E.	2.50	chs.,	Mouth of draw, from SE., Face of bluff 10 ft.high.
S.28°E.	3.30		Along broken slope, across small ledges and rubble slides.
S.30°W.	0.90		
S.22°E.	4.60		
S.25°W.	1.50		
S.30°E.	2.60		
S.29°W.	0.90		
S.23°E.	2.50		
S.5° E.	2.40		
S.20°W.	2.10		
S.32°W.	3.10		
S.35°E.	2.30		
S. 5°W.	2.40		To face of cliff, 50 ft.high.
N.80°W.	1.60		
S.20°W.	4.40		Along broken ledges at base of cliff about 600 ft.high.
S.40°W.	6.00		
S.26°W.	0.90		
S.27°W.	2.10		
S.51°W.	1.10		
S. 8°W.	1.10		
S.60°W.	6.40		
S.48°W.	1.00		Along face of bluff about 20 ft. high.

Survey of Meanders of
Left bank of Colorado River thru Fractional T.30 N., R.23 W.

S.39°W.	1.80 chs.,	
S.25°W.	2.60	
S.3° E.	2.70	
S.16°E.	2.70	
S.28°W.	3.70	
S.6° E.	2.00	
S.74°E.	1.90	Mouth of draw, from E., canyon walls 50 to 150 ft., high.
S.81°W.	1.20	
S.19°E.	4.60	
S.24°E.	1.60	
S.39°W.	0.90	
S.16°E.	3.20	
S.81°W.	0.90	
S. 9°E.	2.90	
S.15°E.	6.10	To water course on face of sloping bluff; 130 ft.high.
S.10°E.	2.60 chs. to	The meander cor., of fractional secs., 15 and 22, hereinbefore described.
Land: Mountainous: cliffs, bluffs and ledges.		
Soil: none.		
Undergrowth: none.		
Timber: none.		

Along left margin of river, downstream in sec., 22.		
Along face of sloping ledge, 150 ft.high.		
S. 8°E.	0.80 chs.,	
S.12°E.	6.30	
S.16°E.	3.30	
S.28°E.	2.20	
S.15½°E.	6.20	
S.23°E.	2.30	
S.17°E.	9.90	
S.36°E.	3.60	
S.76°E.	1.80	Mouth of draw, from E., Along broken ledges and bluffs.
S.71°W.	1.30	
S.12°E.	0.60	
S.83°E.	0.70	
S. 6°W.	0.90	
S.41°E.	3.40	
S.25°E.	1.60	
S.43°E.	1.40	
S.71°W.	0.80	
S.18°E.	1.80	
S.68°E.	2.50	
N.76°E.	1.10	To mouth of draw, from E.,
S.30°W.	1.20	
S.64°W.	1.20	
S.33°E.	2.00	
S.49°E.	0.60	
S.30°E.	3.70	
S.29°E.	3.30	Gully, from E., Along face of broken bluff.
S. 6°W.	2.10	
S.16°E.	1.00	
S.41°E.	0.90	
N.78°E.	0.50	
S.31°E.	0.80	
S.61°W.	0.60	
S.36°E.	1.90	
S.43°E.	0.90	
S.49°E.	1.40	
S.89°E.	0.90	
S.54°E.	2.20	Draw, from E.,

Survey of Meanders of

Left bank of Colorado River thru Fractional T.30 N., R.23 W.

West	1.80chs.,	
S.12°E.	1.90	Over broken and rocky land.
S.54°E.	3.50	
S.15°E.	1.50	
S.63°E.	1.40	
S.56°E.	2.30	Along alluvial deposit and sand banks.
S.29°E.	3.30	
S.77°E.	2.50	
S.6°W.	1.70	
S.58°E.	7.90	
S.61°E.	2.50	Mouth of wash, 20 lks., wide, from E..
S.45°W.	0.90 chs.	to meander corner of secs. 22 and 27, as hereinbefore described.
Land: broken, rocky; cliffs and ledges.		
Soil: rock and sand, 4th. rate.		
Timber: none.		
Undergrowth: arrowweed and mesquite.		

Along left margin of river, downstream in sec. 27.		
Across alluvial deposit.		
S. 5°E.	0.70	
S.54°W.	0.60	Along broken rock ledges.
S.27°E.	1.10	
S.45°W.	0.70	
S.28°W.	1.90	Along face of bluff, 50 ft. high.
S.42°E.	1.30	
S.56°E.	1.40	
S.32°E.	1.90	
S.54°E.	1.30	
S. 1°E.	1.60	
S.44°E.	2.40	
S.25°E.	1.30	
S.34°E.	1.30	
S.80°E.	1.00	Leave bluff; along broken and sandy scarp.
S.29½°E.	3.79	
S.58¼°E.	3.39	Across mouth of draw: canyon walls 20 to 100 ft. high.
S.66°E.	2.40	
S.81°W.	2.20	Along wall of canyon, 50 ft. high.
S.10°W.	2.40	Over broken land.
S.31°E.	1.80	
S.89°W.	0.90	Along rocky ledge.
S.20°E.	2.60	
S.35°W.	1.10	
S.65°E.	3.00	Short gully, from NE..
S.37°W.	2.60	
S.29°E.	0.70	
S.56°E.	2.60	Drain, from E.,
S.27°W.	1.60	
S.14°E.	1.10	
S.45°W.	1.10	
S.26°E.	4.20	
N.74°E.	2.40	Across mouth of canyon.
S.43°E.	1.60	South wall of canyon, 50 ft. high.
S.60°W.	1.70	Point of bluff, rising sharply to the E..

Survey of Meanders of

Left bank of Colorado River thru Fractional T.30 N., R.23 W.

S.77°E.	2.00 chs.	Mouth of draw; canyon walls 50 ft. high.
S.67°W.	2.83	Along broken land.
S.14°W.	4.35	
S.51°E.	2.10	
S.39°W.	0.50	
S.27°W.	1.80	
S. 7°W.	3.50	
S.10°E.	0.80	
S.47°E.	2.80	
S.45°E.	1.00	Along face of sloping bluff, 50 to 100 ft. high.
S. 2°W.	1.60	
S.57°E.	0.90	Gully, from E.,
S.66°W.	0.90	
S.18°W.	3.20	
S. 3°W.	10.40	
S. 7°W.	4.00	
S.76°W.	0.60	
S.12°W.	2.67 chs.	Gulch, from SE. to true point for meander cor. of secs. 27 and 34, witnessed 30 lbs. E. as hereinbefore described.

Land: broken and mountainous,

Soil: sand and rock.

Timber: none.

Undergrowth: scattered clusters of mesquite, greasewood,
and catclaw.

From a point 0.50 chs. west of witness meander cor. of
From true point for meander cor. of secs. 27 and 34,

Along left margin of river, downstream thru sec., 34.

Across face of bluff, and along broken cliffs and ledges.

S.19°W.	5.10 chs.	
S. 7°W.	3.90	
S.21°W.	2.80	
S.25°W.	3.90	
S. 5°W.	1.90	
S.16°W.	12.70	
S.10°W.	5.60	
S.11°W.	5.40	
S. 1°E.	5.90	
S.23°E.	1.70	
N.69°E.	1.70	
S.24°E.	5.50	
S.66°E.	0.80	Mouth of narrow draw, from E.,
S.74°W.	1.30	
S.19°E.	3.60	
S.75°E.	1.10	
S.39°E.	2.10	
S.52°E.	1.20	
S. 4°E.	0.60	
S.28°E.	1.70	
S.65°E.	1.70	
S.44°E.	1.60	
S.80°E.	0.80	Gully, from N.,
S.37°E.	2.75 chs.	to meander cor. of secs. 34 and 35, hereinbefore described.

Land: precipitous cliffs, - mountainous.

Soil: none.

Timber: none.

Undergrowth: none.

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Survey of Meanders of
Left bank of Colorado River thru Fractional T. 30 N., R. 23 W.

Along left margin of river, downstream thru sec. 35.
Over broken land, across small bluffs and ledges.

S. 59° E.,	4.20 chs.	At 0.20 chs. cross wash, 5 lks. wide, from N.
S. 85° E.,	2.00	
S. 45° E.,	1.20	
S. 67° E.,	6.20	
S. 53° E.,	0.90	
S. 54° E.,	4.00	
N. 85° E.,	2.40	
S. 44° E.,	6.40	
N. 80° E.,	0.30	Gully, from NE.
S. 22° E.,	1.10	
S. 43° E.,	2.10 chs. to	the meander cor. of secs. 2 and 35 on S. bdy. of Tp., described in Book "A" of this group.

Land: broken and mountainous.
Soil: rocky, 4th rate.
Timber: none.
Undergrowth: none.

Boundaries of fractional T. 30 N., R. 23 W.
Latitudes, Departures and Closing Errors:

Line designated	True course	Dist- ance.	Latitudes		Departures	
			N.	S.	E.	W.
East Boundary	North	480.00	480.00			
North Boundary	West	149.60				149.60
Meanders of Left Bank of Colorado River	Various	Var- ious.	4.55	485.19	166.34	151.16
South Boundary	East	134.90			134.90	
Convergency						.21
<u>Totals</u>			484.55	485.19	301.24	300.97
				484.55	300.97	
Error in latitude			0.64			
Error in departure					0.27	

Frac. T. 30 N., R. 23 W.
GENERAL DESCRIPTION.

Township 30 North, Range 23 West, Arizona, is made fraction-
al by the Colorado River, the center of which is the common bound-
ary of the states of Arizona and Nevada.

The township drains westerly into the Colorado River,
which in this vicinity flows southerly thru Black Canyon, with
an average water width of about 6 chains.

The surface of the greater part of the township is brok-
en and mountainous. A portion of the east range of sections has
a rolling surface.

The soil varies from tertiary gravels to an igneous rock
formation, 3rd and 4th rate.

There is no timber in the township.

Undergrowth of greasewood, cacti and catclaw in a
scattering growth, is prevalent in most of the sections.

There are no settlers or improvements, and no roads.

No indications of valuable mineral were observed during
the survey. The only road is one bearing NW. & SE thru sec. 1.

Except the water of the Colorado River there is no per-
manent flow of water in any of the water courses, and there are
no springs in the township, except Hot Springs in Colo. River
bank in sec. 10.

No portion of the township has agricultural or grazing value.

The Arizona portion of the proposed BOULDER DAM SITE is located in section 3 of this township, and the Nevada portion is located in section 29 of Fractional T. 22 S., R. 65 E., Nevada.

 FINAL TEST.

At the conclusion of the surveys described in the foregoing field notes, which is also the conclusion of the surveys of Group No. 160, Arizona, make a final test of Buff and Buff solar transit No. 17992 as follows:

April 11, 1930:

At camp in approximately the SE $\frac{1}{4}$ of unsurveyed sec. 29, Frac. T. 29 N., R. 22 W., G. & S. R. B. & M., Arizona, latitude 35° 52' N., longitude 114° 40 $\frac{1}{2}$ ' W., examine the adjustment of the instrument and find no errors, then, to test the solar apparatus by comparing its indications resulting from solar observations made during a. m. and p. m. hours with a meridian determined by Polaris observations, proceed as follows:

At 6 h. 14 m., p. m., l. m. t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined by a tack in a stake driven firmly in the ground 10 chs. N.

Azimuth of Polaris at western elongation = 1° 19' 13".

April 13, 1930:

At 3 h. 30 m., p. m., lay off the azimuth of Polaris 1° 19' to the east and mark a point in the true meridian thus determined by a tack in a stake driven firmly in the ground 10 chs. N.

At 4 h. 0 m., p. m., app. t., set off 35° 52' N. on the lat. arc, 9° 4 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

April 14, 1930:

At 7 h. 0 m. a. m., app. t., set off 35° 52' N. on the lat arc, 9° 18 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

From the results of the above described tests conclude that the instrument has remained in satisfactory adjustment throughout the surveys described in the foregoing field notes.

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4-680
(August, 1926)

FIELD ASSISTANTS.
to
Dupree R. Averill, U.S. Surveyor

NAMES.	CAPACITY.
Ben Randall	1st Chainman
Theo Widmaier	2nd Chainman
A.F. Gray	Cornerman
Sterling Murdock	Flagman

BOOK 3883

CERTIFICATE OF UNITED STATES SURVEYOR

I, Dupree R. Averill, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer, for Group 160, Arizona bearing date of the 15th day of July, 1929, 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

East Boundary

North Boundary

and Subdivision lines of

Fractional Township 30 North, Range 23 West

and Meanders of Left Bank of the Colorado River thru Frac. Township 30 North, Range 23 West of the Gila and Salt

River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof 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 District Cadastral Engineer, for Group 160, Ariz., and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place:

Date:

Dupree R. Averill, U. S. Surveyor. Phoenix, Arizona. May 15, 1930.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., October 10, 1930.

The foregoing field notes of the survey of the East boundary, North boundary, and Subdivision lines of Fractional Township 30 North, Range 23 West, and the Meanders of the Left Bank of the Colorado River thru Fractional Township 30 North, Range 23 West of the Gila and Salt River Base & Meridian, in the State of Arizona

executed by Dupree R. Averill, U.S. Surveyor

under his special instructions dated July 15, 1929 for Group 160 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. H. Johnson, U. S. Supervisor of Surveys.

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. Supervisor of Surveys.