

FIELD NOTES

OF THE SURVEY OF THE

East Boundary

North Boundary

and

Subdivision Lines

of

Fractional Township 31 North, Range 23 West

and

the Meanders of Left Bank of the Colorado River

within

Fractional Township 31 North, Range 23 West

and

Fractional Township 32 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 26, 1931

Survey commenced February 16, 1931

Survey completed March 7, 1931

3912

3912

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

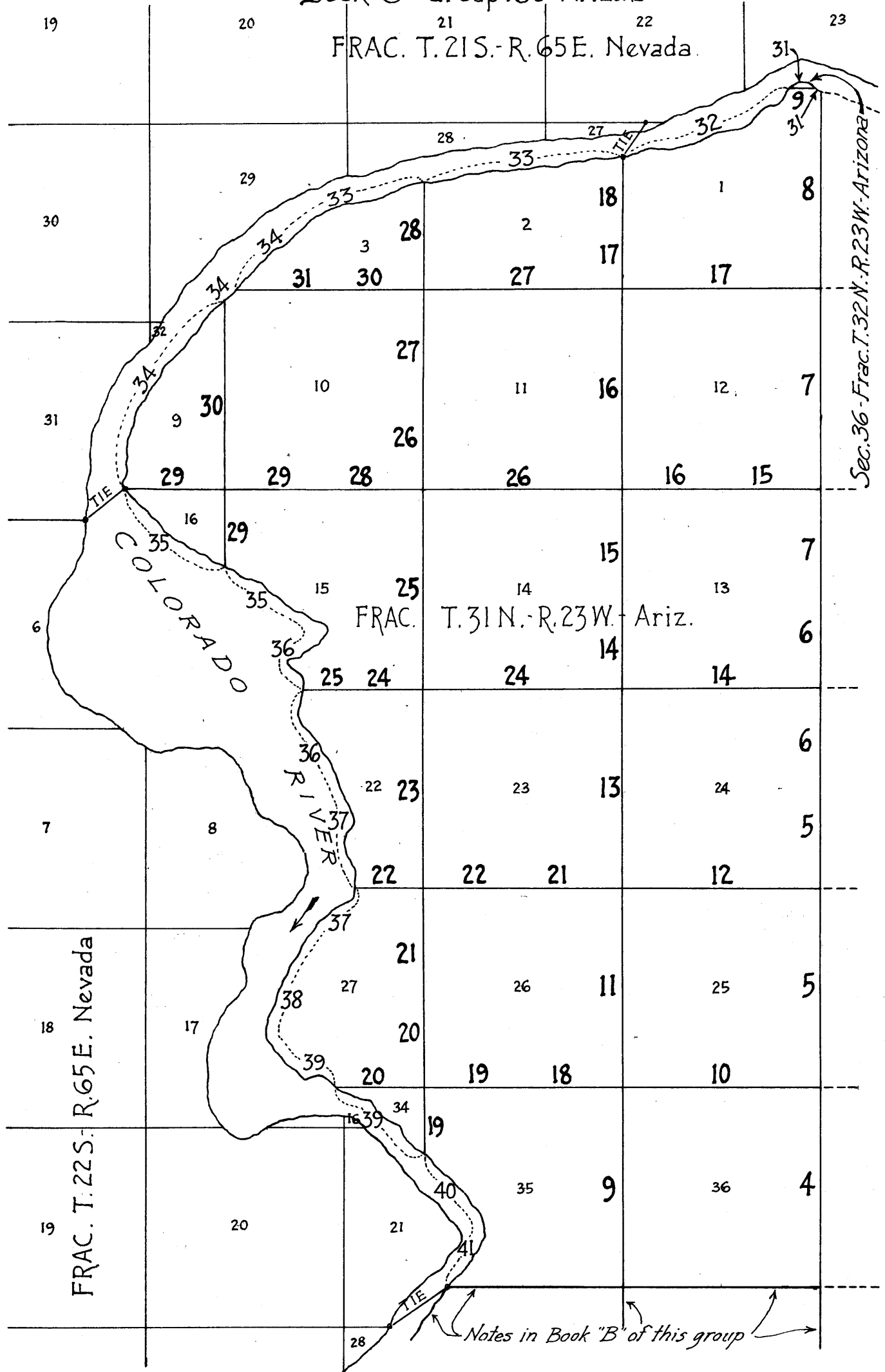
INDEX-DIAGRAM

BOOK 3912

85
1A

Book "C" Group 160 - Arizona

FRAC. T. 21 S. - R. 65 E. Nevada.



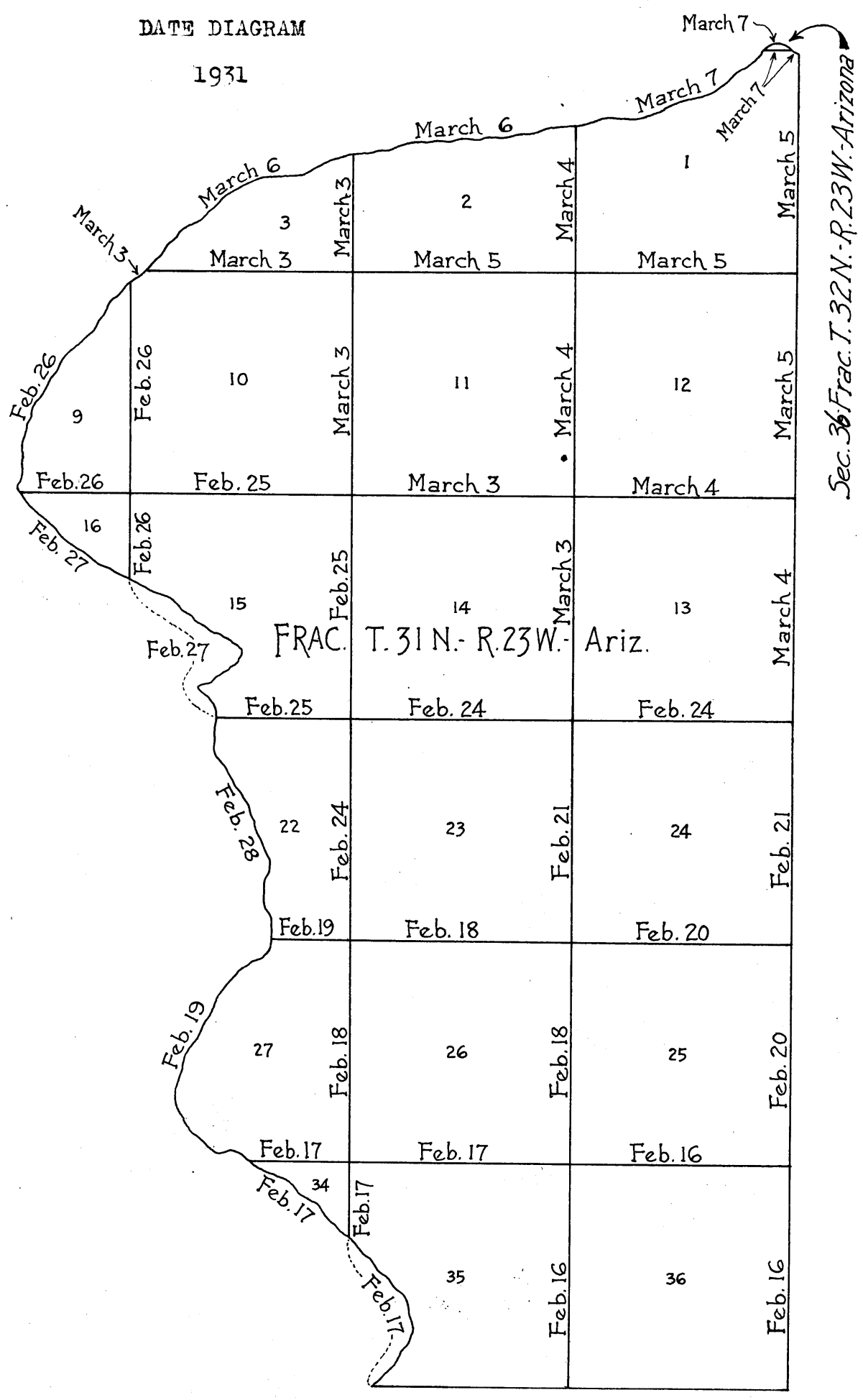
— Lines surveyed under Group No. 160 Arizona.

- - - Unserved lines in Arizona.

— Lines of Nevada surveys.

DATE DIAGRAM

1931



— Surveyed under Group 160 Ariz. by D.R.Averill, U.S. Surveyor on dates (1931) shown thereon. Notes herein.

Fractional
T.31-N.,R.23 W.,

The surveys herein described were executed on dates shown on diagram on page 2 hereof, by Dupree R. Avenill, U.S. Surveyor, using a Buff and Buff light mountain transit No. 17992, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ ins., with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of the latitude arc is $2\frac{1}{2}$ ins., and of declination arc $3\frac{1}{2}$ ins., each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the District Cadastral Engineer Feb., 4, 1931. Examine all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of all lines were determined by solar transit method, supplemented by direct observations on the sun for azimuth. The measurements were made with a Lallie steel tape, 5 chs., in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks., The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SE. cor., of the Tp., as follows: latitude $36^{\circ}01'23''$ N., and longitude $114^{\circ}42'15''$ W..

Feb., 13, 1931, in camp on the Colorado River, near the SW., cor., of sec., 17, T.22 S., R.65 E., M.D.M., Nevada, in latitude $36^{\circ}02'10''$ N., longitude $114^{\circ}45'40''$ W., at 9h.40m. p.m., by watch which reads correct 120th meridian time, so determined by comparison with a Western Union clock, observe Polaris at western elongation, making four sights, two on each with the telescope in direct and reversed positions, deflecting a mean angle of $10^{\circ}32'W.$, to a flashlight placed 20 chs., dist., The azimuth of Polaris at western elongation being $1^{\circ}18'40''$ the true bearing of the reference meridian is $N.11^{\circ}50'40''$ W.,

Feb., 14, 1931. every hour, from 8 to 11 a.m., and from 1 to 5 p.m., make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared to the meridian established by Polaris observation, has a maximum error of less than $1'30''$.

Repeat the tests of the arcs daily by noon observation, and verify the meridional indications at frequent intervals throughout the survey.

Survey of the East Boundary of Frac. T. 31 N., R. 23 W.

chains

Commence at the cor., of Ts. 30 & 31 N., R. 22 W., and
 Frac. Ts. 30 & 31 N., R. 23 W., described in Book "B"
 Thence

North bet. secs., 31 and 36.

Over broken hilly land, thru scattered undergrowth.

Along W. slope.

- 1.50 Drain, course SW., Asc., SW. slope 50 ft.,
 4.65 Ridge, bears E. and W., Desc., N. slope 195 ft.,
 12.00 Enter wash, course W.,
 17.40 Leave wash, ascend SW. slope 140 ft.,
 25.00 Drain, course W.,
 35.50 Ridge, bears E. and W., Desc., N. slope 30 ft.,
 38.50 Enter wash, course W.,
 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd

$\frac{1}{4}$
 S 36 | S 31
 1931

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

- 41.30 Leave wash. Asc., S. slope 135 ft.,
 44.00 Spur, slopes W., Continue ascent over SW slope 180 ft.,
 65.00 Change of slope to NW., Desc., 95 ft.,
 70.00 Gully, course W., Asc., S. slope 180 ft.,
 79.10 Sharp spur, extends W., Desc., N. slope 50 ft.,
 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 27 ins., in the
 ground, supported in a mound of stone, on precipitous N.
 slope, for the cor., of secs., 25, 30, 31 and 36, with
 brass cap mkd

T31N
 R23W R22W
 S 25 | S 30
 S 36 | S 31
 1931

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

Land, broken hills.

Soil, rocky, gravel and clay talc, 3rd. and 2nd. rate.
 Timber, none; undergrowth, greasewood and cacti.

Survey of the East Boundary of Frac. T. 31 N., R. 23 W.

chains	<p>North bet. secs., 25 and 30.</p> <p>Over broken hilly land, thru scattered undergrowth.</p> <p>Desc., N. slope 170 ft.,</p> <p>4.00 Wash, 20 lks., wide, course W., Change of slope to SW.</p> <p>5.70 Wash, 10 lks., wide, course SW., Asc., SW. slope 380 ft.,</p> <p>30.00 Change of slope to S., continue gradual ascent.</p> <p>31.50 A conical butte, about 25 ft. high, bears W., 3.00 chs., dist.,</p> <p>36.00 Asc., steep S. slope 100 ft., over broken igneous rock.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd</p> <div style="text-align: center;"> $\frac{1}{4}$ <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black;">S 25</td> <td style="border-right: 1px solid black;">S 30</td> </tr> <tr> <td colspan="2">1931</td> </tr> </table> </div> <p style="text-align: right;">raise a</p> <p>mound of stone, 3 ft. base, 3 ft. high, W., of cor.,</p> <p>Asc., S. slope 800 ft.,</p> <p>58.20 Top of basalt ledge, 100 ft. high, bearing SE. and NW., Over rolling mountain top.</p> <p>70.00 Desc., gradual N. slope 140 ft.,</p> <p>80.00 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, 4 ft. base, 2 ft. high, for the cor. of secs., 19, 24, 25 and 30, with brass cap mkd</p> <div style="text-align: center;"> <p>T31N</p> <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black;">R23W</td> <td style="border-right: 1px solid black;">R22W</td> </tr> <tr> <td style="border-right: 1px solid black;">S 24</td> <td style="border-right: 1px solid black;">S 19</td> </tr> <tr> <td style="border-right: 1px solid black;">S 25</td> <td style="border-right: 1px solid black;">S 30</td> </tr> <tr> <td colspan="2">1931</td> </tr> </table> </div> <p>Land, broken mountains. Soil, clay and rock, 3rd. and 4th. rate. Timber, none; undergrowth, greasewood and cacti.</p> <hr style="border-top: 1px dashed black;"/> <p>North bet. secs., 19 and 24.</p> <p>Over rolling and broken land, thru scattered undergrowth.</p> <p>Desc., N. slope 25 ft.,</p> <p>0.90 Wash, 10 lks., wide, course N. 80° W. Asc., 60 ft.,</p> <p>16.50 Desc., gradual NW. slope 180 ft.,</p> <p>27.50 Drain, course W.,</p> <p>33.60 Broken rimrock, bears NW. and SE.; Desc., precipitous slope 350 ft.,</p>	S 25	S 30	1931		R23W	R22W	S 24	S 19	S 25	S 30	1931	
S 25	S 30												
1931													
R23W	R22W												
S 24	S 19												
S 25	S 30												
1931													

Survey of the East Boundary of Frac. T.31 N. R.23W.

chains

40.00 Set an iron post, 3 ft. long, 1 in., diam., 24 ins., in the ground, to bedrock, with marked stone (X) deposited alongside, supported in a mound of stone, 5 ft. base, 1 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 24 \mid \text{S } 19 \\ 1931 \end{array}$$

Desc., broken NE. slope 700 ft.,

73.00 Wash, 40 lks., wide, course N.30°W., Asc., 15 ft.,

80.00 Set an iron post, 3 ft. long, 2 ins., diam., 15 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 20 ins., high, for the cor., of secs. 13, 18, 19 and 24, with brass cap mkd

$$\begin{array}{c} \text{T31N} \\ \text{R23W} \mid \text{R22W} \\ \text{S } 13 \mid \text{S } 18 \\ \text{S } 24 \mid \text{S } 19 \\ 1931 \end{array}$$

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

Land; rolling and broken mountains.

Soil, rocky, 4th. rate.

Timber, none; undergrowth, greasewood and cacti.

North, bet. secs., 13 and 18.

Over broken mesa, thru scattered undergrowth.

3.00 Small spur, slopes NW., Desc., 25 ft.,

4.00 Drain, course W., Desc., along W. slope 120 ft.,

26.90 Spur, slopes N.10°W., Desc., along E. slope 150 ft.,

40.00 Set an iron post, 3 ft. long, 1 in., diam., 15 ins., in the ground, to bedrock, with marked (X) stone, deposited alongside, supported in a mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 13 \mid \text{S } 18 \\ 1931 \end{array}$$

Desc., NE. slope 85 ft.,

46.20 Gully, course NW., Desc., 20 ft.,

51.00 Draw, course NW.,

51.40 Drain, course W., Asc., SW. slope 35 ft.,

57.00 Spur, slopes NW., Desc., 180 ft.,

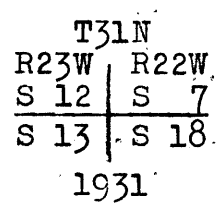
62.30 Gully, course NW.,

67.20 Spur, slopes NW., Desc., 80 ft.,

Survey of the East Boundary of Fract. T31N, R23W.

chains

79.10 Wash, 40 lks., wide, course NW.,
 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 27 ins., in the ground, for the cor., of secs., 7, 12, 13 and 18, with brass cap mkd



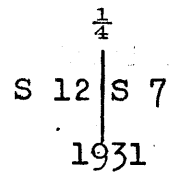
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.,

Land, broken mesa.
 Soil, rocky, 3rd. and 4th. rate.
 No timber; undergrowth, greasewood and cacti.

 North, bet. secs., 7 and 12.

Over broken mesa, along wash, course N., Desc., 30 ft.,

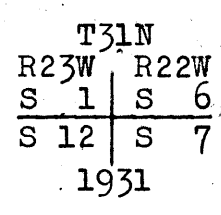
12.00 Leave wash, course NW., Asc., 22 ft.,
 13.00 Spur, slopes NW., Desc., gradual slope 100 ft.,
 21.20 Drain, course W.,
 32.60 Gully, 30 lks., wide, course NW., Asc., 70 ft.,
 39.95 Spur, slopes NW.,
 40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd



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

Desc., NE. slope 90 ft.,

67.80 Gully, course N. 15° W., Along W. slope.
 73.30 Spur, slopes N. 30° W., Desc., 40 ft., along NE. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 27 ins., in the ground, for the cor., of secs., 1, 6, 7 and 12, with brass cap mkd



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

Land, broken mesa.
 Soil, rocky and gravelly, 2nd. and 3rd. rate.
 No timber; undergrowth, greasewood, catclaw and cacti.

Survey of the East Boundary of Frac. T. 31 N. R. 23 W.

chains

North, bet. secs., 1 and 6.

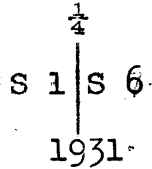
Over broken mesa, desc., gradual slope 190 ft.,

13.90 Wash, 10 lks., wide, course NW., from S. 1° E.,

23.50 Low spur, slopes NW.,

27.30 Drain, course NW.,

40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for 1/4 sec. cor., with brass cap mkd



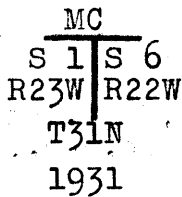
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.,

Continue descent 110 ft.,

66.70 Foot of descent, over level land.

79.70 High water mark of left bank of the Colorado River, bearing NW. and SE.,

Set an iron post, 3 ft. long, 1 in., diam., 32 ins., in the ground, with marked (X) stone deposited at base of post, for meander cor., of fractional secs. 1 and 6, with brass cap mkd



Land, rolling and level mesa. Soil, rocky and gravelly, 2nd. and 3rd. rate. No timber; undergrowth, greasewood, catclaw and cacti, mesquite and arrow-weed along the river margin.

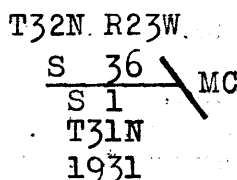
Survey of the North Boundary of Frac. T. 31 N. R. 23 W.

From a point 80 chs. North from the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of Frac. T. 31 N. R. 23 W.

West, on a blank line.

1.80 High water mark of the left bank of the Colorado River, bearing NW. and SE.

Set an iron post, 3 ft. long, 1 in., diam., 32 ins. in the ground, with marked (X) stone deposited alongside, for meander cor., of fractional secs. 1 and 36, with brass cap mkd



Survey of the North Boundary of Frac. T. 31 N., R. 23 W.

chains

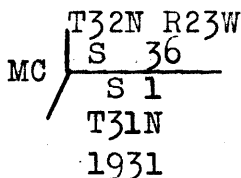
Thence

West on true line bet. secs., 1 and 36.

Over level land, thru dense undergrowth.

19.20 High water mark of the left bank of the Colorado River, bearing N. and SW.

Set an iron post, 3 ft. long, 1 in., diam., 32 ins., in the ground, with marked (X) stone deposited alongside, for meander cor., of fractional secs., 1 and 36, with brass cap mkd



Land, level.

Soil, silt and gravel, 1st. rate.

Timber, none; undergrowth, mesquite and arrow-weed.

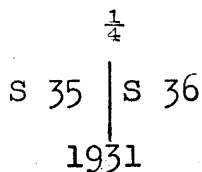
Survey of Subdivision of Frac. T. 31 N., R. 23 W.

From the cor., of secs., 1, 2, 35 and 36, on the S., bdy., of the Tp., described in Book "B",

N. 0° 01' W., bet. secs., 35 and 36.

Over broken mountainous land, thru scattered undergrowth.

- 0.10 Drain, course E. Asc., S. slope 15 ft.,
- 2.50 Spur, slopes NE., Desc., N. slope 80 ft.,
- 7.35 Gully, course N. 20° E., Desc., gradual slope 100 ft.,
- 21.50 Wash, 10 lks., wide, course NE., Asc., broken E. slope 50 ft.,
- 35.00 Small spur, slopes E.,
- 39.00 Drain, course E.,
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd



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

Asc., SE. slope 125 ft.,

- 46.30 Low saddle in ridge, bearing NE. and W., Desc., precipitous NW. slope 350 ft.,
- 60.60 Foot of descent; enter wash, course W.,
- 67.30 Leave wash; Asc., S. slope 135 ft.,

Survey of Subdivisions of Frac. T. 31 N. R. 23 W.

chains

71.00 Spur, extends W., Over rolling land.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor., of secs., 25, 26, 35 and 36, with brass cap mkd

T31N R23W	
S 26	S 25
S 35	S 36

1931

raise a

mound of stone, 3 ft. base, 1½ ft. high, W., of cor.,

Land, broken mountains and hilly.
Soil, rocky and gravelly, clay and talc, 3rd. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

East on a random line bet. secs., 25 and 36.

40.00 Set temp., ¼ sec. cor.,

79.98 Intersect the E. bdy., of the Tp. 7 lks., N., of the cor., of secs., 25, 30, 31 and 36, hereinbefore described.

Thence

N. 89° 57' W. on true line bet. secs., 25 and 36.

Over broken hilly land, thru scattered undergrowth.

Asc., 10 ft.,

0.50 Desc., NW. slope 500 ft.,

26.00 Draw, course S. 70° W. Along S. slope, asc., 30 ft.,

28.00 Shoulder of spur, from NE., Desc., 50 ft.,

36.75 Sharp spur, slopes SW., Desc., 75 ft.,

39.75 Draw, course SW., Asc., 10 ft.,

39.99 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd

¼ S 25
S 36

1931

raise a

mound of stone, 3 ft. base, 1½ ft. high, N., of cor.,

Asc., SE. slope 60 ft.,

42.00 Sharp spur, slopes S. 20° W., Desc., 85 ft.,

44.00 Gulch, course SW., Asc., 50 ft.,

48.00 Short spur, slopes S., Desc., 50 ft.,

58.20 Gulch, course SW., Asc., SE. slope 125 ft.,

63.00 Ridge, bears N. and S. 20° W., Desc., NW. slope 210 ft.,

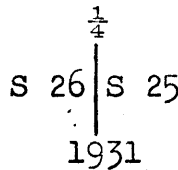
72.00 Change to rolling W. slope.

Survey of Subdivisions of Frac. T. 31N., R. 23 W.

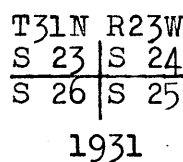
chains

- 79.98 The cor., of secs., 25, 26, 35 and 36.
Land, broken hills.
Soil, rocky and sandy talc, 3rd. rate.
No timber; undergrowth, scattered greasewood.

- N. 0° 01' W., bet. secs., 25 and 26.
Over broken hilly land, thru scattered undergrowth.
- 0.15 Drain, 5 lks., wide, course W., Asc., 20 ft.,
- 1.80 Low spur, extends W., Desc., 15 ft.,
- 4.40 Wash, 40 lks., wide, course SW., Asc., 160 ft.,
- 19.55 Spur, slopes SW. Desc., 80 ft.,
- 25.80 Wash, 20 lks., wide, course S. 70° W., Asc., 110 ft.,
- 36.80 Wash, 5 lks., wide, course S. 75° W.,
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd



- raise a mound of stone, 3 ft. base, 2 ft. high, W., of cor.,
Desc., NW. slope 20 ft.,
- 42.50 Drain, course SW., Asc., SE. slope 150 ft.,
- 49.40 Spur, slopes SW., Desc., NW. slope 90 ft.,
- 56.00 Wash, 30 lks., wide, course SW., Asc., SE. slope 250 ft.,
- 67.60 Peak of hill, ridge bears NE and SW., Desc., 40 ft.,
along W. slope
- 69.80 Drain, course W.,
- 74.00 Draw, course S. 70° W., Asc., 60 ft.,
- 78.50 Over lava mesa, along gradual W. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 26 ins., in the ground, for the cor., of secs., 23, 24, 25 and 26, with brass cap mkd



- raise a mound of stone, 3 ft. base, 2 ft. high, W., of cor.,
- Land, broken hills.
Soil, gravelly and rocky, talc and lava, 3rd. and 4th. rate.
No timber; undergrowth, greasewood and cacti.

Survey of Subdivisions of Frac. T. 31 N. R. 23 W.

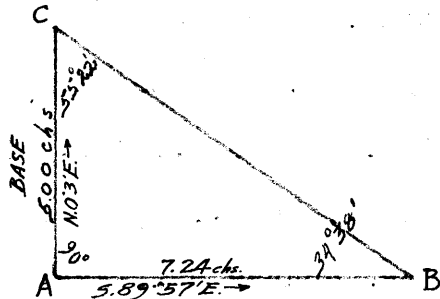
chains

S. 89° 57' E. on a random line bet. secs., 24 and 25.

40.00

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

In order to determine the distance to the top of basalt rim rock, set a flag A. at this station, and on top of the ledge, on line, set a flag B; point C. is taken N. 03° E., 5.00 chs., dist.,



All angles measured, closing error balanced to 180° 00'.

Distance to top of bluff: 7.24 chs.,

47.24

Point B.

79.94

Intersect the E. bdy. of Tp., 7 lks., S. of the cor., of secs., 19, 24, 25 and 30, hereinbefore described.

Thence

West, on true line, bet. secs., 24 and 25.

Over rolling basalt mesa, thru scattered undergrowth.

Asc., 10 ft., along N. slope.

2.00 Desc., W. slope 30 ft.,

5.70 Wash, course NW., Asc., 20 ft.,

12.00 Over level rocky land.

16.00 Desc., 45 ft.,

20.00 Wash, course N.,

32.75 Top of rimrock ledge, 200 ft. high, bearing NW. and SE.
Desc., 550 ft.,

35.00 Foot of broken ledge. Desc., talus of basalt rock.

39.97 Set an iron post, 3 ft. long, 1 in., diam., in rock talus, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 3 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd
$$\frac{1}{4} \begin{array}{l} S 24 \\ S 25 \end{array}$$

1931

Continue descent, along SW. slope, 750 ft.,

70.00 Change of slope to west.

76.50 Drain, course SW., Head of gulch.

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

Survey of Subdivision of Frac. T.31 N., R.23 W.

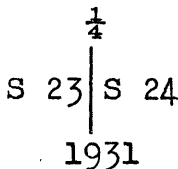
chains

Land, mountainous.
Soil, rock, 4th. rate.
No timber; undergrowth, scattered greasewood and cacti.

N.0°01'W., bet. secs., 23 and 24.

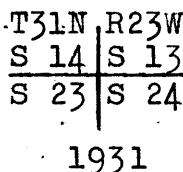
Over broken mountainous land, thru scattered undergrowth.
Asc., 15 ft., over W. slope.

- 3.00 Desc., NW. slope 50 ft.,
- 5.80 Gully, course W.,
- 10.20 Draw, course W., Asc., 120 ft.
- 15.50 Small spur, slopes W. Along W. slope.
- 28.00 Spur, slopes W., Desc., NW. slope 135 ft.,
- 31.50 Wash, 30 lks., wide, course W., Asc., 50 ft.,
- 35.30 Small spur, slopes W., Desc., 75 ft.,
- 38.80 Wash, 20 lks., wide, course SW., Asc., SE. slope 10 ft.,
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 4 ft. base, 1 1/2 ft. high, for 1/4 sec. cor., with brass cap mkd



Asc., SE. slope 250 ft.,

- 46.50 Saddle in ridge, bearing E. and S. 70° W., Desc., N. slope 110 ft.,
- 50.00 Change of slope to E., Desc., 100 ft.,
- 77.00 Steep rocky spur, slopes NE., Desc., N. slope 40 ft.,
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 15 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 5 ft. base, 20 ins. high, for the cor. of secs., 13, 14, 23 and 24, with brass cap mkd



Land, broken mountains.
Soil, rocky, 3rd. and 4th. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

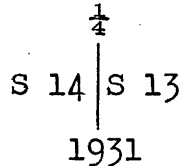
Survey of Subdivision of Frac. T.31 N., R.23 W.

chains

11.30 Wash, 20 lks., wide, course NW.. Over broken mesa, desc.. gradual slope 185 ft.,

38.00 Wash, 10 lks., wide, course W.. Asc., S. slope 15 ft..

40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd



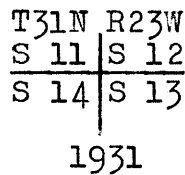
raise a mound of stone, 3 ft. base, 2 ft. high, W., of cor., Asc., 15 ft.,

42.00 Low spur, extends NW., Desc., gradual slope 200 ft.,

61.30 Enter wash, 50 lks., wide, course N.20°W.,

66.00 Leave wash.

80.00 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, 4 ft. base, 2 ft. high, for the cor., of secs., 11, 12, 13 and 14. with brass cap mkd



Land, mountainous and broken mesa.
Soil, rocky, 3rd. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

N.89°57'E., on a random line, bet. secs., 12 and 13.

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

80.00 Intersect the E., bdy., of the Tp., 7 lks., N., of the cor., of secs., 7, 12, 13 and 18, hereinbefore described.

Thence

West, on true line, bet. secs., 12 and 13.

Over broken mesa, thru scattered undergrowth.

0.35 Wash, 25 lks., wide, course N., Asc., E. slope of draw, 50 ft.,

2.00 Over gradual N., slope of mesa.

2.80 Wash, 15 lks., wide, course NW.

9.50 Wash, 15 lks., wide, course NW.

12.50 Enter wash, course NW.

16.50 Leave wash, course N., Asc., 25 ft.,

Survey of Subdivision of Fraction T.31 N., R.23 W.

chains

- 17.00 Low ridge, bears N.20°W. and S.20°E., Desc., 15 ft.,
- 18.40 Head of draw, course NW., Asc., 100 ft., along N. slope.
- 36.15 Spur, slopes NW., Desc., 30 ft.,
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 6 ins., in the ground, to bedrock, with marked stone (X) deposited alongside, supported in a mound of stone, 4 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd

$$\frac{1}{4} \begin{array}{l} S 12 \\ S 13 \end{array}$$

1931

Desc., SW. slope 35 ft.,

- 42.00 Drain, course NW., Along N. slope.
- 46.00 Small spur, slopes NW., Desc., SW. slope 135 ft.,
- 52.00 Wash, 30 lks. wide, course N.20°W., Over gentle NW. slope.
- 80.00 The cor., of secs., 11, 12, 13 and 14.

Land, broken mesa and hills.

Soil, rocky, 3rd. rate.

Timber, none; undergrowth, greasewood, catclaw and cacti.

N.0°01'W., bet. secs., 11 and 12.

Over mesa land, thru scattered undergrowth.

Desc., gradual NW. slope 100 ft.,

- 15.00 Enter wash, 50 lks., wide, course N.
- 19.20 Leave wash, course N.30°W.,
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4} \begin{array}{l} S 11 \\ S 12 \end{array}$$

1931

Continue descent 50 ft.,

- 44.00 Wash, 10 lks., wide, course NW.
- 70.00 Wash, 50 lks., wide, 20 ft. deep, course NW.,
- 75.00 Desc., NW. slope 40 ft.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 27 ins., in the ground, for the cor., of secs., 1, 2, 11 and 12, with brass cap mkd

$$\begin{array}{l} T31N R23W \\ S 2 | S 1 \\ S 11 | S 12 \end{array}$$

1931

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

mound of stone, 3 ft. base, 2 ft. high, of cor.,

Survey of Subdivision of Trac. T.31 N., R.23 W.

chains	
	Land, mesa. Soil, rocky, 2nd. and 3rd. rate. No timber; undergrowth, greasewood, catclaw and cacti.

	East, on a random line, bet. secs., 1 and 12.
40.00	Set temp., $\frac{1}{4}$ sec. cor.,
79.96	Intersect the E., bdy., of the Tp., 2 lks., S. of the cor., of secs., 1, 6, 7 and 12, hereinbefore described.
	Thence
	S. $89^{\circ}59'$ W., on true line, bet. secs., 1 and 12.
	Over broken mesa, thru scattered undergrowth.
	Asc., E. slope 25 ft.,
1.85	Desc., 30 ft.,
4.40	Wash, 20 lks., wide, course NW., Asc., 30 ft.,
7.60	Over gentle N. slope. Desc., 30 ft.,
15.50	Wash, 5 lks., wide, course NW.,
30.00	Enter wash, course NW.,
38.00	Leave wash, course NW., Asc., 20 ft.,
39.50	Over level land.
39.98	Set an iron post, $\frac{3}{4}$ ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd
	$\frac{1}{4}$ S 1 S 12
	1931
	raise a
	mound of stone, 3 ft. base, 2 ft. high, N. of cor.,
53.80	Wash, 15 lks., wide, course N. 75° W.,
58.80	Wash, 40 lks., wide, course NW.,
70.40	Wash, 40 lks., wide, 10 ft. deep, course N.,
78.50	Desc., 25 ft.,
79.96	The cor., of secs., 1, 2, 11 and 12.
	Land, broken and level mesa. Soil, rocky and gravelly, 3rd. rate. No timber; undergrowth, greasewood, catclaw and cacti.

	N. $0^{\circ}01'$ W., on true line, bet. secs., 1 and 2.
	Over mesa land, thru scattered undergrowth.
	Desc., gradual N. slope 100 ft.,
7.50	Drain, course NW.,

Survey of Subdivision of Trac. T.31 N., R.23 W.

chains

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

$\frac{1}{4}$
 S 2 | S 1
 1931

raise a

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

Continue gradual descent.

45.00 Enter wash, course N.30°W.,

51.00 Drain, 2 lks., wide, 2 ft. deep, course NW.

52.60 High water mark of the left bank of the Colorado River, bearing E. and W.,

Set an iron post, 3 ft. long, 1 in., diam., 32 ins., in the ground, for meander cor., of fractional secs., 1 and 2, with brass cap mkd.

MC
 S 2 | S 1
 T31N R23W
 1931

raise a

mound of stone, 3 ft. base, 2 ft. high, S., of cor.,

Land, mesa.

Soil, gravelly and rocky, 2nd. and 3rd. rate.

No timber; undergrowth, greasewood, catclaw and cacti, mesquite and arrow-weed along margin of river.

Section 35 being made fractional by the Colorado River, begin at the cor., of secs., 25, 26, 35 and 36.

Thence

West, on true line, bet. secs., 26 and 35.

Over broken hilly land, thru scattered undergrowth.

Desc., gradual slope 90 ft.,

0.50 Drain, 5 lks., wide, course S.70°W.,

12.00 Wash, 25 lks., wide, in gully, course NW. from NE.,
Asc., NE. slope 50 ft.,

18.40 Short spur, slopes N., Along broken N. slope of bench land; desc., 100 ft.,

28.40 Gulch, course NW., from NE., Along N. slope.

33.00 Desc., 50 ft.,

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 and earth 6 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd

Survey of Subdivision of Trac. T.31 N., R.23 W.

chains

1/4 S 26
S 35

1931

Corner falls in small drain, course NW.,

Desc., 15 ft.,

43.00 Draw, course SW., Along S. slope.

51.00 Same draw, wash, 50 lks., wide, course NW., Asc., 50 ft.,

51.30 Conglomerate gravel bluff, 40 ft. high, bears NW. and SE.

55.00 Shoulder of spur, slopes N., Desc., NW. slope 140 ft.,

64.20 Same draw, course S. 70° W., Asc., broken S. slope 110 ft.,

67.75 Low ridge spur, slopes SW., Along N. slope, desc., 30 ft.,

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 5 ft. base, 20 ins. high, for the cor., of secs. 26, 27, 34 and 35; with brass cap mkd

T31N R23W
S 27 | S 26
S 34 | S 35

1931

Land, broken hills.
Soil, gravelly and rocky, talc and clay, 2nd. and 3rd. rate.
No timber; undergrowth, greasewood and cacti.

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

Over broken hilly land, thru scattered undergrowth.

Asc., N. slope 55 ft.,

2.70 Spur, slopes S. 70° W., Desc., precipitous S. slope 190 ft.

9.50 Draw, course W., Asc., N. slope 105 ft.,

15.00 Spur, slopes W., Desc., gradual slope 60 ft.,

20.00 Desc., precipitous S. slope 115 ft.,

22.00 Across rocky wash, from NE., course SW.

26.40 High water mark of the left bank of the Colorado River, bearing NW. and SE.,

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for meander cor., of fractional secs., 34 and 35, with brass cap mkd

T31N R23W
S 34 | S 35
MC

1931

raise a mound of stone, 4 ft. base, 3 ft. high, N., of cor.,

Survey of Subdivision of ~~Block~~ T.31 N., R.23 W.

chains

From this point the meander cor., of fractional secs., 16 & 21, T.22 S., R.65 E., M.D.M., Nevada, bears N.63°34'W. 24.04 chs., dist., a 1 in. iron post, extending 4 ins., above ground, marked and witnessed as described in the official record.

Land, broken hills.
Soil, rocky and gravelly, 3rd. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

From the cor., of secs., 26, 27, 34 and 35.

West on true line bet. secs., 27 and 34.

Over broken land, thru scattered undergrowth.

Desc., NW. slope 55 ft.,

4.90 Draw, course S.70°W., Asc., 50 ft.,

7.60 Small spur, slopes SW., Desc., gradual slope 165 ft.,

28.50 Gully, course NW.,

36.00 High water mark of the left bank of the Colorado River, bearing NW. and SE.,

Set an iron post, 3 ft. long, 1 in., diam., over cross (X) on surface rock, supported in a mound of stone and concrete, for meander cor., of fractional secs., 27 and 34, with brass cap mkd

T31N R23W
MC \ S 27
S 34

1931

Land, broken hills.
Soil, rocky, 3rd. and 4th. rate.
No timber; undergrowth, greasewood and cacti.

From the cor., of secs., 26, 27, 34 and 35.

N.0°01'W. bet. secs., 26 and 27.

Over broken hilly land, thru scattered undergrowth.

Desc., N. slope 25 ft.,

2.20 Wash, 10 lks., wide, course W., Asc., S. slope 60 ft.,

14.00 Spur, slopes S.70°W., Desc., NW. slope 50 ft.,

29.30 Gulch, course W., Asc., 50 ft.,

35.65 Spur, slopes W., Desc., NW. slope 60 ft.,

40.00 Set an iron post, 3 ft. long, 1 in., diam., 27 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd

$\frac{1}{4}$
S 27 | S 26
1931

Survey of Subdivision of Trac. T.31 N., R.23 W.

chains

raise a mound of stone, 3 ft. base, 2 ft. high, W., of cor.,
 Desc., N. slope 20 ft.,
 40.80 Ravine, course W., Asc., SW. slope 60 ft.,
 45.00 Over broken bench land. Asc., gradually.
 48.70 Gully, course W.,
 62.40 Gully, course W.,
 66.00 Gully, course W.,
 78.00 Desc., precipitous N. slope 50 ft.,
 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 30 ins., in the ground, for the cor., of secs., 22, 23, 26 and 27, with brass cap mkd

T31N R23W	
S 22	S 23
S 27	S 26

1931

raise a mound of stone, 2 ft. base, 1½ ft. high, W., of cor.,
 Land, broken hills and mesa.
 Soil, gravelly and rocky, clay and talc, 3rd. rate.
 No timber; undergrowth, greasewood, catclaw and cacti.

East on a random line bet. secs., 23 and 26.

40.00 Set temp., ¼ sec. cor.,
 80.00 Intersect N., and S., line 7 lks., N. of the cor., of secs., 23, 24, 25 and 26.

Thence

N. 89° 57' W., on true line bet. secs., 23 and 26.
 Over broken mesa, thru scattered undergrowth.
 Desc., W. slope 220 ft.,

8.00 Draw, course S. 60° W., Asc., 30 ft.,
 12.00 Flat spur, slopes SW., Desc., gradual slope 250 ft.,
 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for ¼ sec. cor., with brass cap mkd

¼ S 23
S 26

1931

raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.,
 Corner falls upon narrow ridge of mesa, sloping W.,

44.50 Desc., gradually 140 ft.,

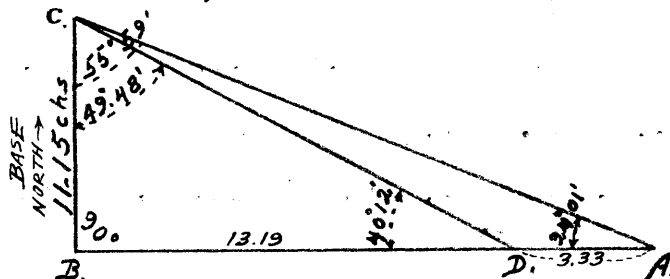
Survey of Subdivision of Fra. T. 31 N., R. 23 W.

chains

- 60.80 Wash, 15 lks., wide, course SW., Continue descent 30 ft., along SW. slope.
 - 66.00 Mesa ridge, slopes S. 70° W., Desc., along broken N. slope 110 ft.,
 - 78.80 Change of slope to NW., Desc., precipitously 25 ft.,
 - 80.00 The cor., of secs., 22, 23, 26 and 27.
- Land, broken mesa.
Soil, gravelly and rocky, talc and conglomerate, 3rd. rate.
Undergrowth, greasewood, catclaw and cacti.

West on true line bet. secs., 22 and 27.
Over broken bad-land formation, thru very scattered undergrowth.
Desc, along N. slope 40 ft.,

- 15.50 Sharp spur, slopes N., Desc., along precipitous N. slope 140 ft.,
- 14.00 Ravine, course S. 80° W., Asc., precipitous and gullied S. slope 150 ft.,
- 24.17 Apex of rocky peak, from spur to the NE., Precipitous bluff to the west prevents direct measurement. At this point set flag A. and on line to the west set flag B. from which C. bears North 11.15 chs., dist., and flag D. at high water mark of the left bank of the Colorado River, at foot of bluff, bears East.,



All angles by repetitions, closing error balanced to 180° 00'

- Distance A. - B.: 16.52 chs.,
- Distance B. - D.: 13.19 chs.,
- Distance A. - D.: 3.33 chs.,

The elevation from A. to D. is -300 ft.,

- 27.50 Point D., High water mark of the left bank of the Colorado River, bearing N. and S., Set an iron post, 3 ft. long, 1 in. diam., in small crevice upon sloping ledge of bluff, imbedded in concrete, for the meander cor., of fractional secs., 22 and 27, with brass cap mkd.

T31N R23W
MC | S 22
 | S 27

1931

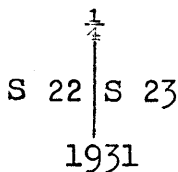
Land, broken, gullied and hilly.
Soil, clay talc, and rock, 3rd. and 4th. rate.
No timber; undergrowth, scattered greasewood.

Survey of Subdivision of Trac. T.31 N., R.23 W.

chains

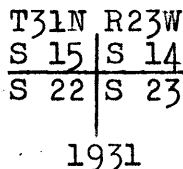
From the cor., of secs., 22, 23, 26 and 27.
 N.0°01'W. bet. secs., 22 and 23.
 Over broken land, thru scattered undergrowth.
 Desc., N. slope 70 ft.,

- 3.00 Ravine, course W., Asc., SW. slope 160 ft.,
- 11.00 Flat ridge, bears E. and W.,
- 17.20 Desc., precipitous NW. slope 60 ft.,
- 22.80 Ravine, course SW., Asc., 60 ft.,
- 33.50 Low ridge, bears E. and W., Desc., precipitous NW. slope 200 ft.,
- 39.95 Foot of descent, enter wash, course N.70°W.
- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd



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

- 43.10 Leave wash, course W. Over gullied conglomerate hills.
- 47.50 Wash, 60 lks., wide, course SW., Asc., 60 ft.,
- 50.00 Point of spur, from NE., Desc., 20 ft.,
- 52.70 Wash, 30 lks., wide, course SW., Asc., 130 ft.,
- 79.00 Sharp spur, slopes W., Desc., 25 ft.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 16 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, for the cor., of secs., 14, 15, 22 and 23, with brass cap mkd.



Land, broken and gullied hills.
 Soil, gravel and rock, 4th. rate.
 No timber; undergrowth, greasewood.

S.89°57'E. on a random line bet. secs., 14 and 23.

- 40.00 Set temp., $\frac{1}{4}$ sec. cor.,
- 79.92 Intersect N. and S., line 2 lks., N., of the cor., of secs., 13, 14, 23 and 24.

Survey of Subdivision of Trac. T. 31 N., R. 23 W.

chains	
	Thence
	N. 89° 56' W. on true line bet. secs., 14 and 23.
	Over broken mountains, thru scattered undergrowth.
	Along N. slope.
0.15	Drain, course NE., Asc., E. slope 155 ft.,
4.60	Rocky spur, slopes N., Desc., along NW. slope 100 ft.,
8.00	Change of slope to N., Ridge, bears NW. and SE. Desc. 120 ft.
25.60	Low ridge, bears NE. and SW., Along N. slope, Asc. 30 ft.,
26.50	Desc., W. slope 200 ft.,
31.00	Gulch, course SW., Along broken S. slope; desc., 100 ft.,
39.96	Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ $\frac{S 14}{S 23}$
	1931
	raise a mound of stone, 3 ft. base, 2 ft. high, N., of cor.,
	Asc., SE. slope 30 ft.,
42.70	Spur, slopes S., Desc., broken gravel slopes 130 ft.,
68.00	Ravine, 30 lks., wide, 50 ft. deep, course NW., Asc., broken N. slope 20 ft.,
70.50	Small spur, slopes N., Desc., rolling and broken N. slope 60 ft.,
79.92	The cor., of secs., 14, 15, 22 and 23.
	Land, mountainous, and broken conglomerate hills.
	Soil, rock and gravels, 3rd. and 4th. rate.
	No timber; undergrowth, greasewood and cacti.

	West on true line bet. secs., 15 and 22.
	Over broken gravel hills, thru scattered undergrowth.
	Desc., N. slope 340 ft.,
31.70	Wash, 50 lks., wide, course SW., Along broken S. slope, thru low gravel hills.
40.00	Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ $\frac{S 15}{S 22}$
	1931
	raise a mound of stone, 3 ft. base, 1½ ft. high, N., of cor.,
	Corner falls upon small spur, from NE., terminating in a low knoll to the west.

Survey of Subdivision of Parcel T.31 N., R.23 W.

chains

Along N. slope.

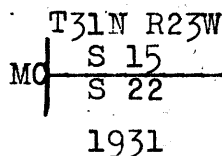
42.50 Desc., NW.slope 50 ft.,

44.00 Over bottom land, desc, gradual slope 40 ft.,

47.00 Wash, 20 lks.,wide, 4 ft.deep, course N.60°W.,

48.30 High water mark of the left bank of the Colorado River,
bearing N. and S.,

Set an iron post, 3 ft.long, 1 in.,diam., 27 ins., in the
ground, for meander cor., of fractional secs., 15 and 22,
with brass cap mkd.



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

Land, broken hills.
Soil, gravel and talc, 3rd.rate.
No timber; undergrowth, greasewood and cacti.

From the cor., of secs., 14, 15, 22 and 23.

N.0°01'W. bet.secs., 14 and 15.

Over broken hilly land, thru scattered undergrowth.

Desc., N. slope 60 ft..

3.60 Drain, course NW., Along W. slope.

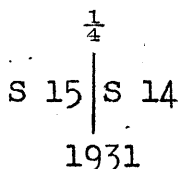
5.80 Small spur, slopes NW., Desc., 30 ft.,

6.60 Ravine, 15 lks., wide, 60 ft.deep, course W., Asc., broken
S. slope 140 ft.,

21.40 Top of small lava hill, on mesa ridge, bearing NW. and SE.
Desc., N. slope 180 ft.,

35.80 Wash, 25 lks., wide, course N.70°W., Asc., S. slope 60 ft.,

40.00 Set an iron post, 3 ft.long, 1 in.,diam., 27 ins., in the
ground, for 1/4 sec., cor., with brass cap mkd.



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

Asc., 6 ft.,

40.70 Low mesa ridge, extends W., Desc., 45 ft.,

46.00 Wash, 20 lks., wide, course W., Desc., 30 ft.

50.80 Wash, 10 lks., wide, course W., Asc., 45 ft.,

52.00 Over mesa; desc., gradual N. slope 30 ft.,

Survey of Subdivision of Prec. T. 31 N., R. 23 W.

chains

80.00 Set an iron post, 3 ft. long, 2 ins., diam., 15 ins., in the ground, to bedrock, with marked (X) stone deposited alongside, supported in a mound of stone, 3 ft. base, 1½ ft. high, for the cor., of secs., 10, 11, 14 and 15, with brass cap mkd.

T31N	R23W
S 10	S 11
S 15	S 14

1931

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

Land, broken hills.

Soil, gravel and rocky, 3rd. rate.

No timber; undergrowth, greasewood and cacti.

S. 89° 56' E. on a random line bet. secs., 11 and 14.
40.00 Set temp., ¼ sec. cor.,

80.00 Intersect N., and S., line 12 lks., S., of the cor., of secs., 11, 12, 13 and 14.

Thence

S. 89° 59' W. on true line bet. secs., 11 and 14.

Over rocky mesa, thru scattered undergrowth.

Desc., gradual slope 100 ft.,

11.40 Enter wash, course NW.,

17.30 Leave wash, course NW.,

32.10 Ravine, 1.00 ch., wide, 20 ft. deep, course NW.,

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, 4 ft. base, 1½ ft., high, for ¼ sec. cor., with brass cap mkd.

¼	S 11
	S 14

1931

Continue descent 180 ft.,

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

80.00 The cor., of secs., 10, 11, 14 and 15.

Land, sloping mesa.

Soil, rocky and gravelly, 3rd. rate.

No timber; undergrowth, greasewood, catclaw and cacti.

N. 0° 01' W. bet. secs., 10 and 11.

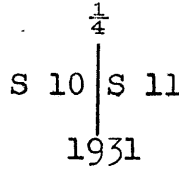
Over rocky mesa, thru scattered undergrowth.

Desc., gradual N. slope 250 ft.,

Survey of Subdivision of ~~Prac.~~ T.31 N., R.23 W.

chains

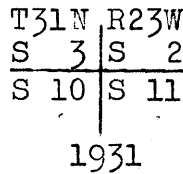
40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.



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

64.90 Wash, 10 lks., wide, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins., diam., 27 ins., in the ground, for the cor., of secs., 2, 3, 10 and 11, with brass cap mkd.



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

Land, mesa.
Soil, rocky and gravelly, 3rd. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

N. 89° 59' E. on a random line bet. secs., 2 and 11.

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

80.08 Intersect N., and S., line 2 lks., N., of the cor., of secs. 1, 2, 11 and 12.

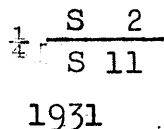
Thence

West on true line bet. secs., 2 and 11.

Over broken mesa land, thru scattered undergrowth.

Desc., gradual NW. slope 150 ft.,

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



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

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

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

80.08 The cor., of secs., 2, 3, 10 and 11.

Land, sloping and level mesa.
Soil, rocky and gravelly, 3rd. rate.
No timber; undergrowth, greasewood, catclaw and cacti.

BOOK 3912

Survey of Subdivision of Frae. T.31 N., R.23 W.

chains

N.0°01'W. on true line bet.secs.,2 and 3.

Over rocky mesa, thru scattered undergrowth.

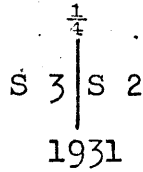
Desc., gradually 50 ft.,

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

27.50 Enter wash, course NW.,

37.80 Leave wash.

40.00 Set an iron post,3 ft.long,1 in.,diam.,27 ins.,in the ground, for 1/4 sec.cor., with brass cap mkd.

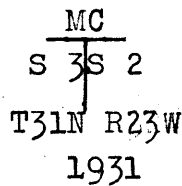


raise a mound of stone,3 ft.base,2 ft.high,W.,of cor.,

Over bottom land, thru dense undergrowth.

43.00 High water mark of left bank of the Colorado River, bearing E. and W.,

Set an iron post,3 ft.long,1 in.,diam.,32 ins.,in the ground, with marked (X) stone deposited alongside, for meander cor.,of fractional secs.,2 and 3, with brass cap mkd.



Land, mesa.
Soil, gravels, 3rd.rate.
No timber; undergrowth, greasewood, catclaw,cacti and mesquite.

From the cor.,of secs.,10,11,14 and 15.

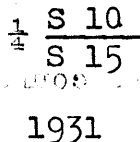
West on true line bet.secs.,10 and 15.

Over rocky mesa, thru scattered undergrowth.

Desc., gradual NW.slopel10 ft.,

23.50 Wash,,15.lks.,wide, course NW.,

40.00 Set an iron post,3 ft.long, 1 in.,diam.,27 ins.,in the ground, for 1/4 sec.cor., with brass cap mkd.

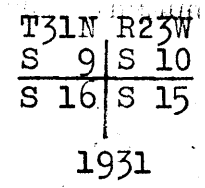


raise a mound of stone,3 ft.base,2 ft.high,N.,of cor.,

Survey of Subdivision of Frac. T.31 N., R.23 W.

chains

- 46.30 Leave mesa, bearing N. and S., Desc., W. slope 160 ft.,
- 51.00 Over sandy bottom, thru scattered clumps of timber and undergrowth. Desc., 50 ft.,
- 80.00 Set an iron post, 3 ft. long, 2 ins., diam., 30 ins., in the ground, with marked (X) stone deposited alongside, for the cor., of secs., 9, 10, 15 and 16, with brass cap mkd.



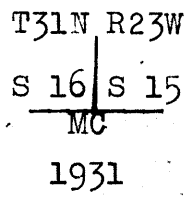
Land, East half, rocky mesa; west half, sandy sedimentary deposit.
 Soil, rocky and gravelly in the east half, sand and silt in west half, 3rd. and 2nd. rate.
 Timber, scattered willow and cottonwood in west half;
 Undergrowth, greasewood, catclaw, arrow-weed, and cacti.

S.0°02'E. bet. secs., 15 and 16.

Over bottom land, thru scattered undergrowth.

- 30.40 High water mark of left bank of Colorado River, bearing NW. and SE.,

Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, for meander cor., of fractional secs., 15 and 16, with brass cap mkd.



raise a

mound of stone, 3 ft. base, 1½ ft. high, N., of cor.,

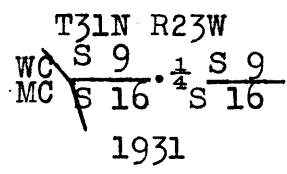
Land, level.
 Soil, sandy silt, 2nd. and 1st. rate.
 Timber, scattered mesquite. undergrowth, arrow-weed and catclaw.

From the cor., of secs., 9, 10, 15 and 16.

West on true line bet. secs., 9 and 16.

Over rolling sand dunes, thru scattered undergrowth and timber.

- 40.00 Set an iron post, 3 ft. long, 1 in., diam., 34 ins., in the ground, with marked (X) stone deposited alongside, for ¼ sec., cor., and additionally serving as witness cor., to meander cor., of fractional secs., 9 and 16, with brass cap mkd



Survey of Subdivision of Frac. T.31 N., R.23 W.

chains

From this point the witness cor., to meander cor., of fractional secs., 6 and 31, T.21 S., R.65 E., and T.22 S., R.65 E., M.D.M., Nevada, bears S.51°45'W., 20.50 chs., dist., a 1 in., iron post, extending 4 ins., above ground, marked and witnessed as described in the official record.

40.40 High water mark of left bank of the Colorado River, bearing NW. and SE., An insecure position for the establishment of monument for meander cor. of secs. 9 and 16

Land, level.
Soil, sandy silt, 1st. and 2nd. rate.
Timber, scattered willow and cottonwood; undergrowth, catclaw and arrow-weed.

From the cor., of secs., 9, 10, 15 and 16.

N.0°02'W. bet. secs., 9 and 10.

Over rolling sand dunes, thru scattered timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, with marked (X) stone deposited alongside, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
 S 9 | S 10
 1931

75.40 High water mark of left bank of the Colorado River, bearing NE. and SW.

Set an iron post, 3 ft. long, 1 in., diam., 32 ins., in the ground, with marked (X) stone deposited alongside, for meander cor., of fractional secs., 9 and 10, with brass cap mkd.

MC
 S 9 | S 10
 T31N R23W
 1931

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

Land, rolling sand dunes.
Soil, sandy silt, 2nd. rate.
Timber, scattered willow and mesquite; undergrowth, catclaw and mesquite.

From the cor., of secs., 2, 3, 10 and 11.

West on true line bet. secs., 3 and 10.

Over rocky mesa, thru scattered undergrowth.

Desc., gradual slope 70 ft.,

Survey of Subdivision of Frac. T.31 N., R.23 W.

chains

39.00 Leave mesa, bearing NE. and SW. Desc., gravel breaks 20 ft.,

40.00 Set an iron post, 3 ft. long, 1 in., diam., 28 ins., in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ $\frac{S \ 3}{S \ 10}$

1931

raise a mound of stone, 3 ft. base, 2 ft. high, N., of cor., Desc., 40 ft.,

41.00 Over bottom land, thru rolling sand dunes.

75.50 High water mark of left bank of the Colorado River, bearing NE. and SW.,

Set an iron post, 3 ft. long, 1 in., diam., 30 ins., in the ground, with marked (X) stone deposited alongside, for meander cor., of fractional secs., 3 and 10, with brass cap mkd.

T31N R23W
MC $\frac{S \ 3}{S \ 10}$

1931

Land, rocky mesa in the east half, sedimentary sands in the west half.

Soil, gravelly and sandy, 2nd. rate.

Timber, scattered willow and mesquite in the west half.

Undergrowth, greasewood, catclaw and cacti.

Survey of Meanders of

Left bank of Colorado River thru Frac. T.31 & 32 N., R.23 W.

From the meander cor., of fractional secs., 1 and 6, T.31 N., R.22 W., and T.31 N., R.23 W., hereinbefore described,

Along left margin of river at mean high water mark, downstream thru sec., 1.

Along sandy bank, thru dense undergrowth.

N. $80\frac{1}{2}$ °W. 1.83 chs.,

To meander cor., of fractional secs., 1 and 36, T.31 N., R.23 W., and T.32 N., R.23 W., hereinbefore described.

Thence thru fractional sec., 36, T.32 N., R.23 W.,

N. 72°W. 3.00 chs.,

N. 70°W. 1.30

N. 78°W. 1.00

S. 88°W. 3.00

S. 66°W. 1.10

S. 24°W. 0.50

S. 6°E. 0.58

To meander cor. of secs. 1 and 36, Frac. T.31 and 32 N., R.23 W., hereinbefore described.

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

Along left margin of river at mean high water, downstream thru sec., 1.

Along sandy bank,

S., 38°W.,	1.80	chs.,
S., 19°W.,	2.20	
S., 63°W.,	3.00	
S., 83°W.,	1.30	
S. 69° W.,	1.60	
S., 64°W.,	1.60	
S., 82°W.,	1.40	
S., 45°W.,	1.70	
S., 54°W.,	2.80	
S., 31°W.,	0.70	
S., 51°W.,	1.80	
S. 42°W.	1.90	
S. 53°W.	2.30	
S. 50°W.	0.80	
S. 60°W.	0.40	
S. 70°W.	1.60	
S. 75°W.	2.10	
N. 80°W.	1.20	
S. 75°W.	2.20	

Along gravel banks, about 10 ft. high.,

S. 67°W.	3.30
S. 71°W.	1.90
S. 80°W.	2.20
S. 73°W.	2.90
S. 65°W.	1.30
S. 15°W.	0.70
S. 51°W.	1.60
S. 64°W.	1.40
N. 75°W.	0.80
S. 80°W.	2.00
S. 75°W.	0.80
West	2.40
S. 63°W.	1.80

To outlet of wash, from SE., and across same.
Along gravel banks.

S. 76°W.	3.20
N. 80°W.	2.10
N. 84°W.	3.00
West	1.10
S. 70°W.	1.90
S. 84°W.	2.30
S. 75°W.	4.80
S. 50°W.	2.20

To outlet of wash 15 lks., wide, from SE.,

S. 72°W. 2.00

The meander cor., of fractional secs., 1 and 2.

Land, broken gravel slopes.

Soil, sandy, gravelly and rocky, 2nd. rate?

Timber, willow and cottonwood; undergrowth, arrow-weed, catclaw and mesquite.

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N.,R.23 W.

chains

Along left margin of river at mean high water, downstream thru sec., 2.

West	0.40	Outlet of wash, 10 lks., wide, from SE.,
S. 80°W.	0.20	Along gravel bluffs, 4 to 10 ft. high.
N. 88°W.	3.70	
N. 75°W.	0.50	
N. 66°W.	1.50	
S. 89°W.	9.60	Along bluff about 20 ft. high.
S. 88°W.	6.10	
S. 85°W.	17.60	Along sloping gravel-banks.
S. 80°W.	3.00	
S. 74°W.	1.00	
S. 79°W.	1.00	Outlet of drain, from S.,
S. 84°W.	9.10	
S. 69°W.	1.00	
S. 75°W.	3.40	
S. 25°W.	0.60	Outlet of drain, from S.
S. 80°W.	1.00	
S. 71°W.	3.00	
S. 78°W.	2.00	
S. 75°W.	1.40	
S. 78°W.	1.60	
S. 84°W.	2.00	
S. 80°W.	2.70	
S. 87°W.	1.90	
S. 84°W.	1.20	
S. 75°W.	1.10	
S. 70°W.	3.00	
S. 78°W.	1.95	

The meander cor., of fractional secs., 2 and 3.

Land, broken gravels.
Soil, sandy, gravelly and rocky, 2nd. and 3rd. rate.
Timber, willow; undergrowth, arrow-weed, catclaw and mesquite.

Along left margin of river at mean high water, downstream thru sec., 3.

Along gravel banks, thru overhanging brush and timber.

S. 84°W.	2.30	
S. 77°W.	0.50	Outlet of wash, from S. Along sandy banks..
West	0.70	
S. 83°W.	1.50	
N. 88°W.	1.80	
S. 57°W.	1.70	
N. 76°W.	1.60	
S. 80°W.	0.80	
S. 33°W.	0.80	
N. 80°W.	0.70	
S. 75°W.	3.00	
S. 85°W.	1.30	
S. 80°W.	2.20	
S. 77°W.	8.90	
S. 71°W.	5.60	
S. 72°W.	2.40	
S. 62°W.	5.40	
S. 53°W.	4.30	
S. 52°W.	6.40	

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

S. 56°W. 3.20 chs.,
 S. 48°W. 17.70
 S. 47°W. 6.10
 S. 42°W. 11.52

The meander cor., of fractional secs., 3 and 10.

Land, rolling gravel and sand hills.

Soil, sandy and rocky, 2nd. rate.

Timber, willow; undergrowth, mesquite, catclaw and arrow-weed.

Along left margin, of river at mean high water, downstream thru sec., 10.

Along sandy banks, thru dense undergrowth.

S. 54°W. 1.70 chs.,
 S. 29°W. 1.40
 S. 46°W. 3.48

The meander cor., of fractional secs., 9 and 10.

Land, rolling sedimentary deposit.

Soil, sandy silt, 2nd. rate.

Timber, willow; undergrowth, mesquite and arrow-weed.

Along left margin of river at mean high water, downstream thru sec., 9.

Along sandy banks, thru overhanging timber and undergrowth.

S. 50°W. 2.60 chs.
 S. 46°W. 1.60
 S. 38°W. 1.20
 S. 51°W. 2.90
 S. 48°W. 6.50
 S. 31°W. 1.20
 S. 43°W. 7.00
 S. 37°W. 2.00
 S. 45°W. 1.60
 S. 42°W. 1.80
 S. 38°W. 6.50
 S. 42°W. 5.20
 S. 36°W. 11.70
 S. 24°W. 3.50
 S. 30°W. 3.60
 S. 38°W. 1.10
 S. 22°W. 4.90
 S. 17°W. 3.60
 S. 23°W. 2.50
 S. 1°W. 2.30
 S. 7°W. 3.60
 S. 1°E. 4.10
 S. 13°E. 2.20
 S. 4°W. 2.20

Leave timber.

S. 19½°E. 5.30

True point for meander cor. of fractional secs., 9 and 16, - 0.40 chs., west of the witness corner monument.

Land, rolling sand dunes. Soil, sandy silt, 2nd rate.

Timber, willow; undergrowth, mesquite and arrow-weed.

Soil, sandy silt, 2nd. rate.

Timber, willow; undergrowth, mesquite and arrow-weed.

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

From true point for meander cor., of fractional secs.,
9 and 16; 0.40 chs., west of witness cor., monument.

Along left margin of river, at mean high water, downstream
thru sec., 16.

Along sandy banks.

S. 36°E.	3.40 chs.,
S. 11°E.	1.30
S. 44°E.	2.90
S. 40°E.	3.60
S. 62°E.	5.70
S. 45°E.	1.60
S. 60°E.	1.10
S. 50°E.	3.70
S. 63°E.	2.60
S. 57°E.	2.70
S. 62°E.	2.70
S. 58°E.	4.80
S. 52°E.	2.70
S. 56°E.	4.90
S. 70°E.	3.10
S. 50°E.	1.70
S. 75°E.	0.60
S. 54°E.	1.00
S. 48°E.	1.60

The meander cor., of fract-
ional secs., 15 and 16.

Land, sand dunes.

Soil, sandy silt, 2nd. and 3rd. rate.

No timber; undergrowth, arrow-weed and willow.

Along left margin of river at mean high water, downstream
thru sec., 15.

Along sandy banks.

S. 70°E.	1.30 chs.,
S. 55°E.	1.70
S. 67°E.	5.10
S. 75°E.	0.70
S. 80°E.	2.60
S. 58°E.	1.50
S. 67°E.	2.50
S. 62°E.	3.10
S. 53°E.	4.60
S. 62°E.	8.10
S. 55°E.	2.20
S. 61°E.	3.10
S. 57°E.	6.80
S. 85°E.	1.00
S. 65°E.	1.00
S. 40°E.	1.30
S. 47°E.	1.60
S. 28°E.	1.00
S. 10°E.	0.50

Leave sandy plain, -along
broken rocky bluffs.

S. 48°W.	1.80
S. 30°E.	0.30
S. 60°W.	1.40
S. 46°W.	4.50
S. 68°W.	0.90
S. 18°E.	0.80
S. 26°E.	0.60
S. 32°W.	0.60
S. 56°W.	0.40

Survey of Meanders of

Left Bank of Colorado River thru fractional T.31 N., R.23 W.

N. 85°W.	0.40 chs.,	
N. 80°W.	1.30	
S. 3°E.	1.30	
S. 57°W.	0.40	
S. 22°W.	1.30	
S. 65°W.	1.40	
S. 70°W.	0.30	
S. 35°W.	0.70	
S. 2°E.	0.40	
N. 80°W.	0.40	
S. 43°W.	0.80	
S. 52°E.	0.50	
S. 42°W.	0.50	
S. 62°W.	0.90	
S. 23°W.	0.30	
S. 62°W.	0.40	
S. 50°W.	0.70	
S. 70°W.	0.30	
S. 80°E.	0.60	
S. 35°W.	1.10	
S. 66°W.	0.90	
West	0.80	
S. 60°W.	0.20	
S. 52°W.	1.00	Rocky point, from NE., leave bluffs, and along rocky slope.
S. 45°E.	2.40	
S. 51°E.	2.60	
S. 38°E.	0.80	
S. 60°E.	0.30	
S. 30°E.	1.20	Along gravel slopes.
S. 37°E.	0.80	
S. 16°E.	1.60	Outlet of wash, 20 lks., wide, from SE., Along gravel bluffs about 4 ft. high.
S. 4°W.	1.30	The meander cor., of fract- ional secs., 15 and 22.
<p>From this point the witness cor., to true point for the meander cor., bet. fractional secs., 7 and 8, T.22 S., R.165 E., M. D. M., Nevada, bears S. 72°45'W., 64.93 chs. dist., an iron post, 1 in., diam., extending 4 ins. above ground, marked and witnessed as described in the official record.</p> <p>Land, rolling, level and mountainous. Soil, sand, gravel and rock, 2nd., to 4th. rate. No timber; undergrowth, arrow-weed and willow, scattered catclaw and greasewood.</p>		

Along left margin of river at mean high water, downstream thru sec., 22.		
Along gravel and sand banks, about 5 ft., high.		
S. 22°W.	1.50 chs.,	
South	0.90	Across outlet of wash, from E.,
S. 33°W.	3.00	
S. 18°W.	2.20	
S. 9°W.	1.90	Along base of rolling gravel hills.
S. 30°E.	7.10	
S. 29°E.	2.30	
S. 32°E.	2.50	

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

S. 28°E. 1.40 chs.,
 S. 14°E. 1.60
 S. 22°E. 2.90
 S. 26°E. 3.80
 S. 31°E. 13.30
 S. 45°E. 2.10
 S. 30°E. 2.70
 S. 40°E. 2.00
 S. 36°E. 3.60
 S. 35°E. 2.00
 S. 5°W. 1.90
 S. 23°E. 1.40
 S. 51°W. 1.80

Along rubble bank, at base of gravel bluffs about 20 ft., high.

S. 20°W. 1.20
 S. 17°W. 2.20

Leave bluffs, Along gravel banks.

S. 40°W. 2.80
 S. 20°W. 1.00
 South 1.60
 S. 6°E. 3.50
 South 1.00
 S. 60°E. 1.20
 S. 22°E. 0.80
 S. 5°E. 1.20
 S. 38°E. 1.00
 S. 10°E. 0.60
 S. 48°W. 0.70
 East 0.90
 S. 18°E. 0.60

Along precipitous bluffs 60 to 300 ft., high. Narrow gully, from NE.

S. 32°E. 1.10
 S. 20°W. 1.00
 S. 8°W. 0.90
 S. 42°E. 1.00
 S. 13°E. 0.70
 S. 22°W. 0.50
 S. 18°E. 1.20
 S. 7°E. 2.00
 S. 32°W. 0.60
 S. 5°E. 0.80

The meander cor., of secs. 22 and 27.

From this point the witness cor., to true point for meander cor., of fractional secs., 8 and 17, T.22 S., R.65 E. M.D.M., Nevada, bears S.69°30'W., 44.52 chs., dist., An iron post, 1 in., diam., 4 ins., above ground, marked and witnessed as described in the official record.

Land, level, broken, and mountains.
 Soil, sand, gravel and rock, 3rd. and 4th. rate.
 Timber, none; undergrowth, scattered greasewood, willow and cacti.

 Along left margin of river at mean high water, downstream thru sec., 27.

Along face of bluffs, about 300 ft. high.

S. 25°W. 1.40 chs.,
 S. 13°W. 0.60
 S. 56°W. 0.50
 S. 30°W. 1.00
 S. 20°E. 0.60
 S. 20°W. 1.20
 S. 37°W. 1.00

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

S. 24°W.	0.80	chs.,
S. 45°W.	0.60	
S. 65°W.	0.60	
West	1.30	
N. 38°W.	0.20	
S. 68°W.	1.70	
S. 30°W.	0.90	
S. 45°W.	1.30	
S. 71°W.	0.70	
S. 20°W.	0.40	
S. 75°W.	0.70	
S. 50°W.	1.10	
S. 60°W.	0.70	
S. 45°W.	0.60	
S. 60°W.	0.40	
S. 50°W.	0.70	
S. 70°E.	0.50	Across gulch, from SE.,
S. 34°E.	1.00	
S. 54°W.	1.10	Along bluffs, about 50 ft. high.
S. 30°W.	1.20	
S. 45°W.	1.40	
S. 9°W.	1.30	
S. 53°W.	1.20	
S. 54°W.	1.30	
S. 45°W.	0.90	
S. 20°W.	0.60	Leave bluff, and along rubble slope.
S. 55°W.	1.10	
S. 21°W.	1.00	To rocky bluff, about 30 ft. high.
S. 40°W.	1.50	
S. 23°E.	0.70	Leave bluff, - along sandy banks.
S. 39°W.	1.90	
N. 86°W.	1.00	
S. 15°W.	1.30	
S. 49°W.	2.40	
S. 30°W.	3.10	
S. 40°W.	1.90	
S. 32°W.	4.00	
S. 37°W.	4.10	
S. 29°W.	4.00	
S. 27°W.	4.20	
S. 23°W.	5.00	
S. 10°W.	3.80	
S. 3°E.	4.70	
S. 7°E.	5.20	
S. 29°E.	1.60	
S. 19°E.	2.60	
S. 27°E.	2.40	
S. 55°E.	4.60	
S. 60°E.	1.80	
S. 68°E.	2.00	
S. 20°E.	0.80	
S. 29°E.	1.80	
S. 76°E.	1.40	
S. 49°E.	1.80	
S. 76°E.	1.10	
N. 84°E.	1.70	
N. 48°E.	0.50	
N. 70°E.	1.20	
N. 74°E.	1.60	
N. 36°E.	0.70	To outlet of wash, 10 lks.. wide, from N.,
S. 72°E.	2.10	
S. 78°E.	1.20	
S. 67°E.	0.80	Along low gravel hills.

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

S. 77°E. 0.80 chs.,
S. 63°E. 2.40
S. 20°E. 1.30

The meander cor., of fractional secs., 27 and 34.

Land, mountainous, hilly and level.
Soil, rock, sand and gravel, 3rd. rate.
Timber, willow and cottonwood; undergrowth, arrow-weed, willow, and greasewood.

Along left margin of river at mean high water, downstream thru sec., 34.

Along low rocky bluffs.

S. 45°E. 1.00 chs.,
East 0.70
N. 45°E. 1.60
S. 11°E. 0.70
S. 68°E. 1.40
N. 89°E. 2.30
N. 59°E. 0.70

Outlet of gully, from NE..

S. 10°E. 0.90
S. 83°E. 0.90
S. 48°E. 0.80
S. 45°E. 1.40
East 1.10
S. 60°E. 2.50
N. 78°E. 3.20

Outlet of draw, from NE.,

S. 61°W. 2.00
S. 19°W. 1.30
S. 75°W. 0.40

Rubble bluff, about 20 ft. high.

S. 28°E. 0.90
S. 65°E. 0.60
S. 82°E. 0.70
S. 8°W. 0.50
N. 72°E. 0.90
S. 67°E. 0.80
S. 47°E. 2.50
S. 75°E. 2.30
S. 65°E. 1.50
S. 25°E. 1.00

Leave bluffs; along gravel slopes.

S. 48°E. 1.20
S. 75°E. 0.60
S. 65°E. 0.50
S. 54°E. 0.60
S. 12°E. 0.40
S. 61°E. 1.00

Outlet of wash, 30 lks. wide, from NE.

East 2.70
S. 55°W. 1.30
South 0.70
S. 17°E. 0.90
S. 37°E. 1.90
N. 50°E. 0.30
S. 52°E. 1.80
S. 24°E. 0.80
S. 16°E. 1.70
S. 28°E. 1.50
S. 69°E. 0.90
S. 76°E. 1.10
S. 30°E. 4.20

The meander cor., of fractional secs., 34 and 35.

Survey of Meanders of

Left bank of Colorado River thru fractional T.31 N., R.23 W.

Land, broken.
Soil, gravelly and rocky, 3rd. and 4th. rate.
No timber; undergrowth, scattered greasewood.

Along left margin of river at mean high water, downstream
thru sec., 35

Along gravel slopes.

S. 60°E. 1.20 chs.,
S. 46°E. 2.20
S. 52°E. 2.60
S. 57°E. 0.80
S. 68°E. 1.00
S. 71°E. 1.30

Outlet of drain, from NE.

S. 30°W. 0.40
S. 64°E. 1.10
S. 10°W. 0.40
S. 28°E. 0.50
S. 70°E. 1.20
S. 65°E. 1.90
S. 71°E. 0.70
S. 55°E. 1.70
S. 45°E. 1.10
S. 60°E. 1.00
S. 45°E. 0.90
S. 34°E. 1.40
S. 62°E. 4.00
S. 14°W. 1.10
S. 70°E. 1.00
S. 34°E. 2.90
S. 41°E. 1.20
S. 16°E. 0.60
S. 49°E. 2.70

Gully, from NE.,
Along rocky slope,
entering Black Canyon.

S. 36°W. 1.10
S. 20°E. 1.00
S. 30°W. 0.60
S. 3°W. 0.90
S. 17°W. 1.00
S. 66°E. 0.40
S. 56°E. 1.00
S. 30°E. 0.80
S. 8°W. 0.70
South: 1.60
S. 48°E. 0.50
S. 20°W. 0.60
S. 16°E. 0.90
S. 24°W. 1.90
S. 17°W. 1.10
S. 5°W. 1.70
S. 4°W. 1.60
S. 19°W. 0.90
S. 40°W. 1.00
S. 25°W. 1.00
S. 76°W. 0.90
S. 82°W. 3.50
S. 30°E. 2.90
S. 50°H. 0.80
S. 19°W. 1.00
S. 5°W. 1.00
S. 56°W. 0.80
S. 61°W. 1.80
S. 45°W. 0.80
S. 75°W. 1.30
S. 40°W. 0.90

Survey of Meanders of
Left Bank of Colorado River thru fractional T. 31 N., R. 23 W.

S. 13° W.,	1.00	To precipitous bluffs of Black Canyon
S. 2° W.,	0.90	
S. 15° W.,	1.30	
S. 52° W.,	1.80	
N. 88° W.,	0.90	
S. 53° W.,	2.50	To meander cor. of fractional secs. 2 and 35, on the S. bdy. of the Tp., described in Book "B".
<p>From this point the meander cor. of secs. 21 and 28, fractional T. 22 S., R. 65 E., M. D. M., Nevada, bears S. 55° 00' W., 27.55 chs. dist. An iron post, 1 in. diam., extending 10 ins. above concrete base, marked and witnessed as described in the official record.</p> <p>Land, rolling, broken and mountainous. Soil, gravel and rock, 3rd and 4th rate. No timber; undergrowth, catclaw, greasewood, arrow-weed.</p>		

Boundaries of Fractional Township 31 North, Range 23 West.
Latitudes, departures and closing errors.

Line designated	True course	Dist- ance.	Latitudes		Departures	
			N.	S.	E.	W.
South Boundary	West	149.60				149.60
West Boundary, (Meanders, Left Bank, Colo. River)	Various	Various	487.60	7.73	360.90	222.58
North Boundary	East	9.20			9.20	
North Boundary (Meanders, Left Bank, Colo. River)	S. 80¼° E.	1.83		.30	1.80	
East Boundary	South	479.70		479.70		
Convergency				.23		
Totals			487.60	487.73	372.13	372.18
				487.60		372.13
<u>Error in latitude</u>				0.13		
<u>Error in departure</u>						0.05

Boundaries of Fractional Township 32 North, Range 23 West
Latitudes, departures and closing errors.

Line designated	True course	Dist- ance.	Latitudes		Departures	
			N.	S.	E.	W.
South boundary	West	9.20				9.20
W., N. & E. bdrs. (Meanders, Left Bank of Colo. R.)	Various	Various	1.59	1.59	9.26	.06
Convergency					.00	
Totals			1.59	1.59	9.26	9.26
				1.59		9.26
<u>Error in latitude</u>				0.00		
<u>Error in departure</u>						0.00

GENERAL DESCRIPTION.

Township 31 North, Range 23 West, Arizona, is made fractional by the Colorado River, the center of which is the common boundary of the states of Arizona and Nevada. A small fractional area in T. 32 N., R. 23 W., is also included within the surveys hereinbefore described. The township is rolling and mountainous, sloping from the top of Fortification Mountain, the highest point within the Tp., north and west to the river. Sections in the northern portion contain gravel deposits which will be utilized in the structural requirements of Hoover Dam. Fractional sections 9 and 16, and portions of sections 3, 10 and 15, consist of a sedimentary plain of sand and silt, as also does the major portion of section 27. Sections 23, 26 and 35 are rough and broken, consisting of a conglomerate and gravel bad land formation. Some talc and clay hills are noted in sections 26 and 36. Soil will vary from a light silt and talc, thru gravels to a hard igneous rock, from 2nd to 4th rate.

There is no live water, no settlers, no roads, no improvements, no evidence of valuable mineral. Some mineral prospecting has been done in time past thru the mountains further east, but no present activity therein. No part of the township has any agricultural or grazing value. The wooded growth consists of isolated stands of willow and cottonwood along the river margin; undergrowth is primarily of desert character, cactus, greasewood and the smaller forms of arid shrubbery.

The Colorado River enters Black Canyon in section 35, flowing thru precipitous rocky walls, about a mile above the dam site.

The township is adjoined on the west by Fractional Township 21 South, Range 65 East, and Fractional Township 22 South, Range 65 East, M. D. M., Nevada.

Final Test of Solar Attachment.

March 6, 1931: At camp, near SW. cor. of sec. 17, Frac. T. 22 S., R. 65 E., M. D. M., Nevada, at 5 h. 00 m., p. m., app. time, set off $36^{\circ} 02'$ N. on the latitude arc, $5^{\circ} 41\frac{1}{2}'$ S., on the decl. arc, and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

March 7, 1931: At 8 h. 00 m., a. m., app. time, with the latitude arc unchanged, set off $5^{\circ} 26\frac{1}{2}'$ S. on the decl. arc, and repeat the test of the solar; the line of sight agrees with the Polaris meridian.

4-680
(August, 1926)

FIELD ASSISTANTS.


NAMES.	CAPACITY.
Arnold F. Ahrens	1st. chairman.
Henry Hiester	2nd. chairman.
Robert Depue	Cornerman.
Charles McDonald	Flagman.

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 and North boundaries and Subdivision lines of Frac. T.31 N., R.23 W., and Meanders of the Left Bank of the Colorado River thru Fractional Township 31 North, Range 23 West and Fractional Township 32 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 2 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, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: San Francisco, California.

Date: October 24, 1931.


Dupree R. Averill. U. S. Surveyor.

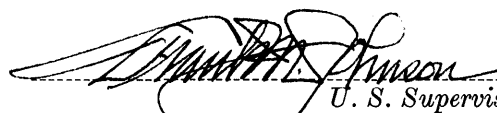
APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., February 26, 1932.

The foregoing field notes of the survey of the East and North boundaries and Subdivision Lines of Fractional Township 31 North, Range 23 West, and the Meanders of the Left Bank of the Colorado River thru Fractional Township 31 North, Range 23 West and Fractional Township 32 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.

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.


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.~~