

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Original

# FIELD NOTES

of the

..... Limited Dependent Resurvey and Accretion Survey, .....

..... Township 17 North, Range 21 West .....

..... Of the ..... Gila & Salt River ..... Meridian, .....

..... In the State of ..... Arizona .....

### EXECUTED BY

..... Robert C. Yundt, Cadastral Surveyor .....

..... Donald A. Cannon, Cadastral Surveyor .....

..... Under special instructions dated ..... December 28, 1959  
..... December 1, 1961 ..... , 19....., which provided

..... for the surveys included under Group No. ..... 346  
..... 367 ..... , approved .....

..... and assignment instructions dated ..... January 25, 1960  
..... December 15, 1961 ..... , 19.....

..... Survey commenced ..... February 29, 1960  
..... December 11, 1961 ..... , 19.....

..... Survey completed ..... March 29, 1960  
..... February 16, 1962 ..... , 19.....

1A

BOOK 4656

# INDEX DIAGRAM

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10-56770-1

Division Lines of Accretion Lands  
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Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

## Chains

Township 17 North, Range 21 West is situated east of the city of Needles, California, and is on the east side of the Colorado River therefrom. As originally surveyed, the township was fractional, being bounded in part on its westerly side by the river. This particular reach of the river, in a large sweeping bend, is known as Pelican Bend, sometimes called Ice House Bend. The bottomlands lie within the reach along the river also known as Mohave Valley.

T. 17 N., R. 21 W., was originally surveyed by John J. Fisher, Deputy Surveyor, in 1905, as shown upon the official plat approved June 29, 1906. The adjoining township, T. 17 N., R. 22 W., has been resurveyed in part concurrently under Group 367. A portion of the subdivisional lines herein reported were reestablished in 1960 pursuant to Group 346. Field work on those surveys was suspended prior to completion of the surveys as contemplated by the special instructions. So much of the work accomplished under Group 346 has been consolidated with the current surveys under Group 367 and is returned without differentiation between the two.

By Executive Order dated February 2, 1911, certain even-numbered sections within the township were set apart as an addition to the Fort Mohave Indian Reservation. The odd-numbered sections were patented to the Santa Fe Railroad Company pursuant to the railroad granting acts. These latter lands became vested afterwards in private persons and companies. By Grant Deed to the United States, in the interest of the Bureau of Reclamation, the Cotton Land Company, successor to the Santa Fe Railroad Co., conveyed secs. 19 and 29, together with accretion areas in front thereof, as more particularly described in the conveyance recorded in Mohave County, Arizona, public records, Deed Book No. 73, Pgs. 209-214.

The following surveys are of a retracement and reestablishment of portions of the south boundary, being the Fourth Standard Parallel North, the west boundary, and boundaries of those sections adjoining the left bank of the river as originally surveyed, designed to restore the corners thereof in their original positions according to the best available evidence; and, the survey of accretion lands in front of those sections reserved to the Fort Mohave Indians and not included in previous surveys. This work has been undertaken at the request of the Bureau of Indian Affairs as an administrative measure. The Bureau of Reclamation requested the surveys of deeded lands of secs. 19 and 29.

Since the date of the original surveys and prior to the early 1950's, the Colorado River moved away from the left bank as originally surveyed by normal processes of accretion to the creation of considerable added areas in front of the lands as originally returned. In the early 1950's the river was rechannelized in this vicinity by the Bureau of Reclamation by the dredging of a cut across fast lands of secs. 4 and 33, Ts. 8 and 9 N., R. 23 E., S. B. M., California. Consequently, the bed of the river within this township at Pelican Bend was completely abandoned. This work has included the survey of those accretion lands in front of the reserved sections, out to the left bank of the river as it flowed at time of rechannelization.

The surveys were executed with Gurley transits constructed in accordance with the standard specifications of the Bureau. The instruments were in good condition and were frequently tested and adjusted during the times of the surveys to maintain them in good operation. All directions of lines reported herein are true as determined by astronomical observations made upon the survey lines and carried forward by normal transit methods. Measurements were made with Dietzgen and Chicago narrow-band, steel tapes, 5 and 8 chains in length, which had been compared with 1 chain standard tapes and found correct. All distances reported are based on horizontal measurements.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

Dependent Resurvey of a Portion  
of the Fourth Standard Parallel North,  
T. 17 N., R. 21 W.

Reestablishment of the Surveys Executed by  
John J. Fisher, Deputy Surveyor, in 1905

The point for the  $\frac{1}{4}$  standard cor. of sec. 34, T. 17 N., R. 21 W., only, is marked by the original malpais stone, set, mkd. and witnessed as described in the official record.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 24 ins. in the ground, with brass cap mkd.

T17N R21W

S-C

$\frac{1}{4}$  S34

1960

Reset the original stone alongside to N.

Build a mound of stones, 3 ft. base,  $2\frac{1}{2}$  ft. high, to N.

Thence

West, on the S. bdy. of sec. 34. ( $\frac{1}{2}$  mile)

Over rolling bench lands, through scattered undergrowth, descending into Mohave Valley.

1.60 Graded road, Topock to Bullhead City, bears N. and S.

20.00 Corner of 4-strand b-wire fence, bearing NE. and SW., enter Havasu National Wildlife Refuge; desc. over steep bank into bottom.

20.60 Enter impassable backwaters of Lake Havasu; distance across obtained by triangulation.

40.07 Point for the standard cor. of secs. 33 and 34, at proportionate distance. The point falls in back waters of Lake Havasu, an inaccessible place.

Land, rolling desert descending into flooded bottom.

Soil, sandy gravel on desert.

Timber, drowned cottonwood, willow and mesquite in bottom.

Undergrowth, creosote brush on desert; tules in bottom.

West, along S. bdy. of sec. 33.

Over backwaters of Lake Havasu, in part over open waters and in part through dense tules.

40.07 Point for the standard  $\frac{1}{4}$  sec. cor. of sec. 33, at proportionate distance. The point falls in back waters of Lake Havasu, an inaccessible place.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

80.14

Point for the standard cor. of secs. 32 and 33, at proportionate distance. The point falls in back waters of Lake Havasu, an inaccessible place.

Land, flooded bottom, with old dead timber and tules.

West, along the S. bdy. of sec. 32.

Over backwaters of Lake Havasu, in part over open waters and in part through dense tules.

33.00

W. edge of backwaters, bearing N. 70° E. and S. 70° W.; enter bottom land, through dense young timber and brush.

40.07

Point for the standard  $\frac{1}{4}$  sec. cor. of sec. 32, which is marked by the rotted remains of the original mesquite post.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay pipe, 8 ins. in diam., 40 ins. long, 28 ins. in the ground, with brass cap mkd.

T17N R21W

S C

$\frac{1}{4}$  S32

1961

Set a mesquite post alongside the monument.

A local iron pipe, 2 ins. in diam., badly deteriorated, set for the closing cor. of secs. 5 and 6, T. 16 N., R. 21 W., bears S. 87° 46' W., 0.75 ch. dist.

The E. end of refuge fence bears S., 36 lks. dist.

West, on record bearing, beginning new measurement.

Resume measurement by normal chaining methods; continue over level bottom, through dense undergrowth, about 40 lks. N. of refuge fence.

40.07

Point for the standard cor. of secs. 31 and 32, at record distance plus a 7 lk. increment for considered excess measurement in the original surveys; there is no remaining evidence of the original corner.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay pipe, 8 ins. in diam., 40 ins. long, 28 ins. in the ground, with brass cap mkd.

T17N R21W

S C

S 31 | S 32

1961

Place a collar of stones around the monument.

A local iron pipe, 2 ins. in diam., badly deteriorated, set for  $\frac{1}{4}$  sec. cor. of sec. 6, T. 16 N., R. 21 W., only, bears

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

S. 87° 18' W., 1.86 chs. dist.

The wildlife refuge fence bears S., 41 lks. dist., with bulldozed trail on S. side thereof.

Land, level bottom of Mohave Valley.  
Soil, deep sand and silt.  
Timber, cottonwood and willow.  
Undergrowth, salt cedar, arrowweed and mesquite.

West, on record bearing, along S. bdy. of sec. 31.

Over level bottom, through dense undergrowth, about 40 lks. N. of fence.

38.16

Point for the meander cor. of sec. 31, at record distance, plus a 7 lk. increment for considered excess measurement in the original surveys; there is no remaining evidence of the original corner.

At the corner point

Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, as a witness point on the S. bdy. of sec. 31, with brass cap mkd.

T17N R21W

T16N R22W

1961

Place a collar of stones around the monument.

The refuge fence bears S., 39 lks. dist., with bulldozed trail on S. side thereof.

Land, level bottom.  
Soil, deep sandy silt.  
Timber, cottonwood and willow.  
Undergrowth, dense salt cedar, arrowweed and mesquite.

Dependent Resurvey of a Portion  
of the West Boundary,  
T. 17 N., R. 21 W.

Reestablishment of the Surveys Executed by  
John J. Fisher, Deputy Surveyor, in 1905.

The point for the cor. of secs. 13, 18, 19 and 24, Ts. 17 N., Rs. 21 and 22 W., is marked by an iron pipe, with cap, 2 ins. in diam., set 6 ins. below ground surface. The pipe is recognized by the adjoining owners and other interested persons as being properly located and is accepted as the best available evidence of the original corner.

At the corner point

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 36 ins. in the ground, with top 8 ins. below ground surface, and in concrete, with brass cap mkd.

T17N  
R22W R21W  
S13 | S18  
S24 | S19  
1960

Set the pipe alongside the iron post.

The post is set in line of fences bearing E., W. and S., in N. edge of graded road bearing E. and W.

S.  $0^{\circ} 10'$  E., bet. secs. 19 and 24.

Over level bottom, along fence on E. side of unimproved road, with dense undergrowth W. of road.

0.10 Graded road, bears E. and W.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, at both record and proportionate distance; there is no remaining evidence of the original corner. The point falls in irrigation ditch, 20 lks. wide, 3 ft. deep, flowing E., where a monument cannot be maintained. Set a witness cor. thereto as described below.

40.40 Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, as the witness  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, with brass cap mkd.

T17N  
R22W R21W  
WC  
 $\frac{1}{4}$   
S24 | S19  
1960

The post is set under fence bearing N. and S.

43.48 Point for the meander cor. of secs. 19 and 24, at record position, which is marked by an iron pipe,  $1\frac{1}{2}$  ins. in diam., projecting 18 ins. above the ground. The pipe is recognized by the adjoining property owners and other interested persons as being properly established and is accepted as the best available evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, as a witness point on the line bet. secs. 19 and 24, with brass cap mkd.

T17N  
R22W R21W  
S24 | S19  
WP  
1961

Reset the iron pipe alongside post.

The post is set under fence bearing N. and S.

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Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

Land, level bottom.  
Soil, river silt.  
Timber, none.  
Undergrowth, salt cedar, arrowweed and mesquite.

Dependent Resurvey of a Portion  
of the Subdivisional Lines,  
T. 17 N., R. 21 W.

Reestablishment of the Surveys Executed by  
John J. Fisher, Deputy Surveyor, in 1905

From the standard cor. of secs. 31 and 32, on W. bdy. of Tp., as  
hereinbefore described.

Thence

N.  $0^{\circ} 03'$  W., on record bearing, bet. secs. 31 and 32.

Over level bottom, through dense undergrowth; a bull-dozed road  
running N. from refuge fence, bears W., about 1 ch. dist.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 31 and 32, at record distance;  
there is no remaining evidence of the original corner.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in  
diam., encased in concrete, in a vitrified clay pipe, 40 ins. long,  
8 ins. in diam., 26 ins. in the ground, with brass cap mkd.

T17N R21W

$\frac{1}{4}$

S31 | S32

1961

Place a collar of stones around the monument.

The bull-dozed road bears W., 50 lks. dist.

42.12 Point for the meander cor. of secs. 31 and 32, at record distance;  
there is no remaining evidence of the original corner.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in  
diam., encased in concrete, in a vitrified clay pipe, 40 ins. long,  
8 ins. in diam., 26 ins. in the ground, as a witness point on the  
line bet. secs. 31 and 32, with brass cap mkd.

WP

S31 | S32  
T17N R21W  
1962



Limited Dependent Resurvey and Accretion Survey,  
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Chains

Land, level bottom.  
Soil, deep sandy silt.  
Timber, none.  
Undergrowth, salt cedar, arrowweed and mesquite.

From the point for the standard cor. of secs. 32 and 33.

N. 0° 05' E., on a calculated bearing, bet. secs. 32 and 33.

In impassable backwaters of Lake Havasu; the line could not be run.

40.075 Point for the  $\frac{1}{4}$  sec. cor. of secs. 32 and 33, at calculated proportionate distance; the point falls in backwaters of Lake Havasu, an inaccessible place.

Gradually ascend out of backwaters.

80.15 Point for the cor. of secs. 28, 29, 32 and 33, is marked by an iron pipe, 2 ins. in diam., with cap, projecting 14 ins. above the ground, and badly deteriorated. The pipe is recognized by the adjoining property owners and other interested persons as being properly established and is accepted as the best available evidence of the original corner.

At the corner point

Set a monument, which is an iron post,  $2\frac{1}{2}$  ins. in diam., 28 ins. long, encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 26 ins. in the ground, with brass cap mkd.

T17N R21W	
S29	S28
-----	
S32	S33
1961	

Reset the iron pipe alongside the monument.

Land, mostly impassable backwaters of Lake Havasu.  
Soil, deep silt.  
Timber, none.  
Undergrowth, salt cedar and tules.

West, on record bearing, bet. secs. 29 and 32.

Over level bottom, through dense undergrowth.

19.80 Cor. of fences, bearing N. and W., bears N., 60 lks. dist.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 29 and 32, at record distance; there is no remaining evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, with brass cap mkd.

T17N R21W	
$\frac{1}{4}$ S 29	
-----	
S 32	
1960.	

The E-W fence bears N., 45 lks. dist.

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Chains

57.75 Point for the meander cor. of secs. 29 and 32, at record distance; there is no remaining evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, for a witness point on the line bet. secs. 29 and 32, with brass cap mkd.

W T17N  
 S29  
 P S32  
 R21W  
 1960

Land, level bottom.

Soil, deep sandy silt.

Timber, none.

Undergrowth, salt cedar, arrowweed and mesquite.

I return to the cor. of secs. 28, 29, 32 and 33.

N.  $0^{\circ}$  11' W., bet. secs. 28 and 29.

Over level bottom, through dense undergrowth.

6.50 Slough, 60 lks. wide, 6 ft. deep, drains S.  $80^{\circ}$  E.

40.08 Point for the  $\frac{1}{4}$  sec. cor. of secs. 28 and 29, at proportionate distance; there is no remaining evidence of the original corner.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, with brass cap mkd.

T17N R21W  
 $\frac{1}{4}$   
 S29 | S28  
 1961

80.16 Point for the cor. of secs. 20, 21, 28 and 29, which is marked by the original mesquite post, badly deteriorated, with a local iron pipe, 2 ins. in diam., also badly deteriorated, alongside.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, with brass cap mkd.

T17N R21W  
 S20 | S21  
 S29 | S28  
 1961

Bury the iron pipe and mesquite post alongside the monument.

Land, level bottom.

Soil, deep sandy silt.

Timber, none. Undergrowth, salt cedar, arrowweed and tules.

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T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

West, on record bearing, bet. secs. 20 and 29.

Over level bottom, through dense undergrowth.

20.00 Fence, bears N. and W.; continue along N. side of fence.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 20 and 29, at record distance; there is no remaining evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, with brass cap mkd.

T17N R21W  
 $\frac{1}{4}$  S 20  
S 29  
1960

A  $\frac{1}{4}$  strand barb-wire fence, bearing E. and W., bears S., 5 lks. dist.

70.69 Point for the record meander cor. of secs. 20 and 29, at record distance; there is no remaining evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, as a witness point on the line bet. secs. 20 and 29, with brass cap mkd.

T17N R21W  
W S 20  
P S 29  
1960

The corner is set 2 lks. N. of E-W fence.

Land, level bottom.

Soil, deep sandy silt.

Timber, none.

Undergrowth, salt cedar, arrowweed and mesquite.

I return to the cor. of secs. 20, 21, 28 and 29.

N.  $0^{\circ}$  11' E., bet. secs. 20 and 21.

Over level bottom, through dense undergrowth.

9.80 S. edge of slough, bearing E. and W.; slough drains E.

14.70 N. edge of slough.

18.70 Enter dense tules.

40.02 Point for the  $\frac{1}{4}$  sec. cor. of secs. 20 and 21, which is marked by the original mesquite post, badly deteriorated, with a local iron pipe, 2 ins. in diam., also badly deteriorated, alongside.

At the corner point

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, with brass cap mkd.

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Chains	
	<p style="text-align: center;">T17N R21W  <math>\frac{1}{4}</math>  S20   S21  1961</p> <p style="text-align: center;">Bury the old iron pipe and post alongside the monument.</p> <hr/> <p>N. 0° 12' E., beginning new measurement.</p> <p>9.30 Dry slough, about 2 chs. wide, drains N. 70° E.</p> <p>32.20 S. edge of slough, bearing N. 70° W. and S. 70° E.; slough drains S. 70° E.</p> <p>36.50 N. edge of slough.</p> <p>39.95 Point for the cor. of secs. 16, 17, 20 and 21, which is marked by an iron pipe, 2 ins. in diam., with cap, projecting 20 ins. above the ground, with cap marked T17N R21W S16 S17 S20 S21 ELEV 459.5 1936. This pipe is recognized by the adjoining property owners and other interested persons as being properly located and is accepted as the best available evidence of the original corner.</p> <p>At the corner point</p> <p>Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T17N R21W  S17   S16  S20   S21  1961</p> <p style="text-align: center;">Set the iron pipe alongside the monument.</p> <p>Land, level bottom.  Soil, deep sandy silt.  Timber, none.  Undergrowth, salt cedar and tules.</p> <hr/> <p>N. 89° 55' W., bet. secs. 17 and 20.</p> <p>Over marsh land, through dense undergrowth.</p> <p>7.30 Leave marsh; enter drier bottom.</p> <p>33.40 Dry slough, 2 chs. wide, draining S. 30° E.; enter cleared land, along fence bearing W.</p> <p>40.32 Point for the <math>\frac{1}{4}</math> sec. cor. of secs. 17 and 20, which is marked by the original mesquite post, badly deteriorated, with a local iron pipe, 2 ins. in diam., also badly deteriorated, alongside.</p> <p>At the corner point</p> <p>Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 26 ins. in the ground, with brass cap mkd.</p>

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Chains

T17N R21W

 $\frac{1}{4}$  S 17

S 20

1961

Set the old post and pipe alongside the monument.

The monument is set in cor. of fences bearing E., W. and N.

N. 89° 58' W., beginning new measurement.

Along wire fence.

40.01 Point for the cor. of secs. 17, 18, 19 and 20, which is marked by an iron pipe, with cap, 2 ins. in diam., projecting 10 ins. above the ground. This pipe is recognized by the adjoining property owners and other interested persons as being properly located and is accepted as the best available evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long, 2 $\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, with brass cap mkd.

T17N R21W

S18 | S17

S19 | S20

1960

Set the iron pipe alongside the monument.

The iron post is set in cor. of fences bearing N., S., E. and W.

Corner of graded roads, bearing S. and W., bears SW., 20 lks. dist.

Land, level bottom.

Soil, deep sandy silt.

Timber, none.

Undergrowth, salt cedar, tules and arrowweed.

S. 0° 07' E., bet. secs. 19 and 20.

Over level bottom, along E. side of road bearing S.; dense undergrowth on both sides. Along good fence.

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 19 and 20, as determined in latitudinal position by the record distance and in longitudinal position by the fence line; there is no remaining evidence of the original corner posts and accessories.

At the corner point

Set an iron post, 28 ins. long, 2 $\frac{1}{2}$  ins. in diam., 22 ins. in the ground, and in concrete, with brass cap mkd.

T17N R21W

 $\frac{1}{4}$ 

S19 | S20

1960

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T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

The corner is setting under the N-S fence.

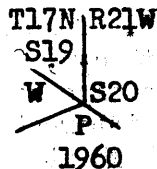
Continue along fence, on E. side of road.

64.42

Point for the record meander cor. of secs. 19 and 20, as determined in latitudinal position by the record distance and in longitudinal position by the fence line. There is no remaining evidence of the original corner post and accessories. The fence is recognized by all interested persons as being on the section line.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 22 ins. in the ground, encased in concrete, as a witness point on the line bet. secs. 19 and 20, with brass cap mkd.



Land, level bottom.

Soil, deep sandy silt.

Timber, some cottonwood and willow.

Undergrowth, salt cedar, arrowweed and mesquite.

I return to the cor. of secs. 17, 18, 19 and 20.

S.  $89^{\circ} 54'$  W., bet. secs. 18 and 19.

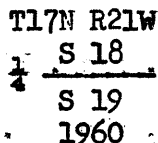
Over level land, along fence, on N. side of graded road.

40.00

Point for the  $\frac{1}{4}$  sec. cor. of secs. 18 and 19, which is marked by an iron pipe, 2 ins. in diam., with cap, projecting 14 ins. above the ground. The iron pipe is recognized by the adjoining property owners and other interested persons as being properly located and is accepted as the best available evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 20 ins. in the ground, and in concrete, with brass cap mkd.



Set the iron pipe alongside the post.

The post is set in fence bearing E. and W.

S.  $89^{\circ} 58'$  W., beginning new measurement.

Continue along fence, on N. side of graded road.

39.97

The cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., as hereinbefore described.

Land, level bottom.

Soil, deep sandy silt.

Timber, a few cottonwood and willow.

Undergrowth, salt cedar, arrowweed and mesquite.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

Survey of Accretion Lands,  
Secs. 20 and 32.

Between the times of the original surveys in 1905 and the rechannelization of the Colorado River in the early 1950's, the river had moved westerly by normal processes of erosion and accretion with the resultant effect that a very considerable area of lands was added to those sections of T. 17 N., R. 21 W., which were riparian to the river's left bank as originally surveyed, as well as to like lands in adjoining townships north and south. The division of these particular accreted lands has been accomplished on a ratable basis between the record meander line of each affected section to respective proportionate segments of the old left bank of the river as it flowed at the time of rechannelization, carefully measured. The terminal points on the abandoned left bank and the record meander lines, for this proportionate division, were at the respective points in sec. 6, T. 16 N., R. 22 W.; and the record meander cor. bet. secs. 15 and 22, T. 17 N., R. 22 W., where the record meander lines come the nearest to said abandoned left bank.

In the division of the accreted lands fronting upon secs. 19 and 29, directions of the division lines, as given in the conveyance from the Cotton Land Company to the United States (see preliminary statement), have been followed. In the conveyance, fractional sec. 19 and accretion lands are identified as Parcel 4; fractional sec. 29 and accretion lands are identified as Parcel 5. Such directions of lines are near identical with those as would have been determined under the pro rata manner of division.

From the witness point on the line bet. sec. 6, T. 16 N., R. 22 W. and sec. 31, T. 17 N., R. 21 W., as hereinbefore described.

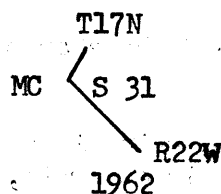
N.  $50^{\circ} 39'$  W., on an extension of the line bet. secs. 6 and 31, over accretion lands.

Over level bottom, through dense undergrowth.

97.76

The left bank of the abandoned channel, bearing N.  $23^{\circ} 08'$  E. and S.  $23^{\circ} 08'$  W.

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay tile, 40 ins. long, 8 ins. in diam., 24 ins. in the ground, for meander cor. of sec. 31, with brass cap mkd.



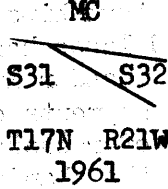
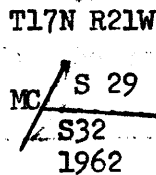
Land, level bottom.  
Soil, deep sandy silt.  
Timber, none.  
Undergrowth, arrowweed, salt cedar and mesquite.

From the witness point on the line bet. secs. 31 and 32, as hereinbefore described.

N.  $63^{\circ} 11'$  W., on an extension of the line bet. secs. 31 and 32,

4655

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R., Mer., Arizona

Chains	over accretion lands.
86.00	Track road, bears E. and W.
104.88	The left bank of the abandoned channel, bearing S. 75° 21' E. and N. 75° 21' W.  Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 24 ins. in the ground, for meander cor. of secs. 31 and 32, with brass cap mkd.   <p>MC S31 S32 T17N R21W 1961</p>
	Land, level bottom, Soil, deep sandy silt, Timber, none. Undergrowth, salt cedar, arrowweed and mesquite.
	From the witness point on the line bet. secs. 29 and 32, as hereinbefore described.  N. 83° 26' W., on an extension of the line bet. secs. 29 and 32, on the bearing recorded in the conveyance of Parcel 5 to the United States, over accretion lands.  Over level bottom, through dense undergrowth.
0.90	Track road, bears E. and W.
1.70	Fence, bears E. and W.
22.40	Fence, bears N. and S.
22.70	Track road, bears N. and S.
90.18	Angle Point No. 2, Parcel 5, as reported in the conveyance to the United States.  Set a redwood post, 5 ft. long, 4 ins. sq., 30 ins. in the ground, scribed: AP2 P5 on NE. face.  Continue with same line and measurement.
96.40	The left bank of the abandoned channel, bearing N. 29° 09' E. and S. 29° 09' W.  Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, for meander cor. of secs. 29 and 32, with brass cap mkd.   <p>T17N R21W MC S 29 S32 1962</p>



Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

Land, level bottom.  
Soil, deep sandy silt.  
Timber, a few scattered cottonwood.  
Undergrowth, salt cedar, arrowweed and mesquite.

From the witness point on the line bet. secs. 20 and 29, as hereinbefore described.

S.  $71^{\circ} 20'$  W., on an extension of the line bet. secs. 20 and 29, on the bearing recorded in the conveyance of Parcel 5 to the United States, over accretion lands.

Over level bottom, through scattered undergrowth.

0.07 Fence, bears E. and W.

0.30 Track road, bears E. and W.

9.80 Fence, bears N. and S.

10.10 Track road, bears N. and S.; enter dense undergrowth.

64.44 Angle Point No. 1, Parcel 5, as reported in the conveyance to the United States.

Set a redwood post, 5 ft. long, 4 ins. sq., 30 ins. in the ground, scribed: AP 1 P 5 on SE face.

Continue with same line and measurement.

75.96 The left bank of the abandoned channel, bearing N.  $16^{\circ} 22'$  W. and S.  $16^{\circ} 22'$  E.

Set a monument, which is an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., encased in concrete, in a vitrified clay tile, 40 ins. long, 8 ins. in diam., 28 ins. in the ground, for meander cor. of secs. 20 and 29, with brass cap mkd.

T17N R21W

S20

MC

S29

1962

Land, level bottom.  
Soil, deep sandy silt.  
Timber, a few scattered cottonwood.  
Undergrowth, salt cedar, arrowweed and mesquite.

From the witness point on the line bet. secs. 19 and 20, as hereinbefore described.

S.  $65^{\circ} 57'$  W., on an extension of the line bet. secs. 19 and 20, on the bearing recorded in the conveyance of Parcel 4 to the United States, over accretion lands.

Over level bottom, through dense undergrowth.

0.20 Track road, bears N. and S.

38.10 Fence, 4 strand barb-wire, bears E. and W.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains	
38.30	Track road, bears E. and W.
62.65	Angle Point No. 2, Parcel 4, as reported in the conveyance to the United States.  Set a redwood post, 5 ft. long, 4 ins. sq., 30 ins. in the ground, scribed: AP2 P4 on N. face.  Continue same line and measurement.
74.47	The left bank of the abandoned channel, bearing N. 40° 07' W. and S. 40° 07' E.  Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 30 ins. in the ground, for meander cor. of secs. 19 and 20, with brass cap mkd.  <div style="text-align: center;"> <p>T17N R21W S19 MC S20 1962</p> </div> Land, level bottom. Soil, deep sandy silt. Timber, some black willow and cottonwood. Undergrowth, salt cedar, arrowweed and mesquite.
	From the witness point on the line bet. secs. 19 and 24, Ts. 17 N., Rs. 21 and 22 W., as hereinbefore described.  S. 52° 11' W., on an extension of the line bet. secs. 19 and 24, on the bearing recorded in the conveyance of Parcel 4 to the United States, over accretion lands.  Over level land, through dense undergrowth.
0.20	Track road, bears N. and S.
44.22	Angle Point No. 1, Parcel 4, as reported in the conveyance to the United States.  Set a redwood post, 5 ft. long, 4 ins. sq., 30 ins. in the ground, scribed: AP1 P4 on E. face  Continue with same line and measurement.
47.80	Irrigation canal, 30 lks. wide, 5 ft. deep, flows NW. from pump about 1½ chs. SE.
48.19	The left bank of the abandoned channel, bearing N. 70° 50' W. and S. 70° 50' E.  Set a monument, which is an iron post, 28 ins. long, 2½ ins. in diam., encased in concrete, in a vitrified clay pipe, 40 ins. long, 8 ins. in diam., 40 ins. in the ground, as a meander cor. of secs. 19 and 24, with brass cap mkd.  <div style="text-align: center;"> <p>T17N R22W R21W S24 MC S19 1962</p> </div>

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

The top of monument is flush with ground surface, in S. edge of track road, bearing N.  $71^{\circ}$  W. about 2 chs., thence N. along fence, and, S.  $71^{\circ}$  E., 1.50 chs. to end at pump.

The pump unit of a diesel irrigation pump bears S.  $63^{\circ} 50'$  E., 1.63 chs. dist.

Land, level bottom.

Soil, deep sandy silt.

Timber, some cottonwood and black willow.

Undergrowth, salt cedar, arrowweed and mesquite.

Meanders and Traverse of the Left Bank  
of Abandoned Channel, Colorado River,  
fronting Secs. 19, 20, 29 and 32,  
T. 17 N., R. 21 W.

The following field notes are those of the meanders and traverse of the left bank of the Colorado River as it ran at the time of rechannelization in the early 1950's. The bank, for the most part, is sharp and distinct, from 4 to 12 ft. high.

In front of the reserved, even-numbered sections, the bank has been meandered. In front of the tracts described as Parcels 4 and 5, in the conveyance to the United States, the bank has been traversed and is returned herein for informational purposes only.

From the meander cor. of secs. 19 and 20, Ts. 17 N., Rs. 21 and 22 W., as hereinbefore described.

Thence, traverse the old left bank of the abandoned channel, downstream, in front of sec. 19 (Parcel 4).

S. $70^{\circ} 50'$ E.,	1.33 chs.	Pump, in river slough, bears S., 20 lks. dist.
S. $84^{\circ} 35'$ E.,	15.75 chs.	
S. $89^{\circ} 05'$ E.,	10.10 chs.	
S. $84^{\circ} 35'$ E.,	5.17 chs.	
S. $60^{\circ} 35'$ E.,	8.10 chs.	At 6.80 chs., on this course, a track road bears N. and S., about 2 chs., thence E.
		At 7.00 chs., on this course, a fence bears N. and S., about 2 chs. to corner of fence bearing E. and W.
S. $40^{\circ} 52'$ E.,	4.46 chs.	At 0.55 ch. on this course, fence bearing E. and W., with track road on S. side.
S. $26^{\circ} 07'$ E.,	6.87 chs.	
S. $40^{\circ} 07'$ E.,	7.41 chs.	The meander cor. of secs. 19 and 20, as hereinbefore described.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

## Chains

Thence, with the meanders of the old left bank, in front of sec. 20.

S.  $40^{\circ} 07'$  E., 0.59 chs.

S.  $36^{\circ} 52'$  E., 6.40 chs.

S.  $16^{\circ} 22'$  E., 4.13 chs. The meander cor. of secs. 20 and 29,  
as hereinbefore described.

Thence with the traverse of the old left bank, in front of sec. 29  
(Parcel 5).

S.  $16^{\circ} 22'$  E., 8.20 chs.

S.  $2^{\circ} 54'$  W., 13.40 chs.

S.  $8^{\circ} 09'$  W., 8.36 chs.

S.  $23^{\circ} 09'$  W., 4.60 chs.

S.  $50^{\circ} 54'$  W., 7.07 chs.

S.  $29^{\circ} 09'$  W., 7.52 chs. The meander cor. of secs. 29 and 32,  
as hereinbefore described.

Thence, with the meanders of the old left bank, in front of sec. 32.

S.  $29^{\circ} 09'$  W., 1.08 chs.

S.  $52^{\circ} 37'$  W., 6.69 chs.

N.  $83^{\circ} 07'$  W., 4.52 chs.

N.  $75^{\circ} 21'$  W., 10.39 chs. The meander cor. of secs. 31 and 32,  
as hereinbefore described.

End the meanders and traverse of the old left bank.

Remonumentation of Miscellaneous Corner Points,  
T. 17 N., R. 21 W.

In the surveys of 1960, several original corner points were recovered and remonumented for preservation purposes. No connections were made between those corners and the surveys described above.

The following field notes are those of the recovery and remonumentation of those miscellaneous corners.

The point for the cor. of secs. 21, 22, 27 and 28 is marked by the original malpais stone, set, mkd. and witnessed as described in the official record.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

T17N R21W	
S21	S22
S28	S27
1960	

Set original stone alongside the iron post.

Raise a mound of stones, 3 ft. base, 2 ft. high, W. of iron post.

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The point for the cor. of secs. 15, 16, 21 and 22, is marked by the original malpais stone, set, mkd. and witnessed as described in the official record.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 15 ins. in the ground, and in a mound of stones, 4 ft. base, to top, with brass cap mkd.

T17N R21W	
S16	S15
S21	S22
1960	

Set original stone alongside the iron post.

---

The point for the cor. of secs. 8, 9, 16 and 17, is marked by the original malpais stone, set, mkd. and witnessed as described in the official record.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. in diam., 24 ins. in the ground, with brass cap mkd.

T17N R21W	
S 8	S 9
S17	S16
1960	

Set original stone alongside the iron post.

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#### General Description

The land in this survey is located on the east side of the Colorado River, about 2 miles east of Needles, California, in the bottomland area of Mohave Valley.

There are some swamp and marsh lands in the east portion of the surveyed areas, caused by the backwaters of Lake Havasu.

Most of the land is covered by dense undergrowth although there has been some clearing and cultivation in the past on the private lands and some clearing on the reserved sections. Many of the section lines are marked by good fences with access roads along one side or the other.

Limited Dependent Resurvey and Accretion Survey,  
T. 17 N., R. 21 W., G. & S. R. Mer., Arizona

Chains

There is a house and farmyard located southeast of the W1/16 sec. cor. of secs. 18 and 19.

The area is being partly grazed at this time but there is no cultivation being carried on.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Virgil Spratt	Survey Aid
Paul Bauer	"
Richard Munson	"
Dan Bauer	"
Stan Green	"
Neil R. Forsyth	"
Max L. Sevy	"
Gaylord C. Davis	"
Woodrow L. Jepson	"
Delmar J. Kitchen	"

CERTIFICATE OF CADASTRAL SURVEYOR

BOOK 4655

I, We Robert C. Yundt & Donald A. Cannon, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 28th day of December, 1959. ~~These surveys~~ under Group No. 346 and special instructions bearing date of the 1st day of December 1961 under Group 367, have executed a limited dependent resurvey and accretion survey of Township 17 North, Range 21 West.

of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by ~~me~~<sup>us</sup> and under ~~my~~<sup>our</sup> direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

2/23/62 (Date)

Donald A. Cannon (Cadastral Surveyor)

2/23/62 (Date)

Robert C. Yundt (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAR 12 1963, 19

The foregoing field notes of the ~~survey of~~ limited dependent resurvey and accretion survey of Township 17 North, Range 21 West, Gila and Salt River Meridian, Arizona.

executed by Robert C. Yundt, Cadastral Surveyor Donald A. Cannon, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

E. J. Summerton (Cadastral Engineering Staff Officer) Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, is a true copy of the original field notes.

(Date)

(Cadastral Engineering Staff Officer)