

WIRE DRAG  
6733

Reconnaissance

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Wire Drag

Field No. Victor Office No. H6733 Wire Drag

LOCALITY

State Arizona

General locality Maricopa County

Locality Roosevelt Reservoir

194 2

CHIEF OF PARTY

Max. Ricketts

LIBRARY & ARCHIVES

DATE May 26, 1942

8-1870-1 (1)

WIRE DRAG  
6733

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTATIC OF~~

No. H **H6733**  
~~obtain~~ Reconnaissance  
**WIRE DRAG**

received **May 27, 1942**  
registered **June 1, 1942**  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
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RETURN TO

82	<b>L. V. Knox</b>
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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

~~HYDROGRAPHIC~~ WIRE DRAG TITLE SHEET

REG. NO.

**H6733** Recon.  
**WIRE DRAG**

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. VICTOR

REGISTER NO. **H6733** Recon.  
**WIRE DRAG**

State ARIZONA

General locality MARICOPA COUNTY

Locality ROOSEVELT RESERVOIR

Scale 1:20,000 Date of survey MAY, 19 42

Vessel Hired Skiffs

Chief of Party Max G. Ricketts

Surveyed by Max G. Ricketts and Harry D. Reed, Jr.

Protracted by \_\_\_\_\_

Soundings penciled by \_\_\_\_\_

Soundings in fathoms feet

Plane of reference Water Level Roosevelt Dam, see Descriptive Report.

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by \_\_\_\_\_

Verified by \_\_\_\_\_

Instructions dated March 20, 1942 & April 20, 19 42

Remarks: \_\_\_\_\_

(1)

DESCRIPTIVE REPORT

to accompany

ROOSEVELT RESERVOIR, ARIZONA

WIRE-DRAG SHEET

PROJECT CS - 282.

H6733 Recon.  
WIRE DRAG

INSTRUCTIONS:- Director's instructions for Project CS-282, dated March 20, 1942 and his telegram of April 20, 1942.

CONTROL:- The control system established by the Salt River Water User's Association for their Silt Survey of 1935 was recovered and used where possible. This control was supplemented by signals located by sextant cuts and fixes. Data for the control stations used can be obtained from Salt River Water User's Association, Phoenix, Arizona. The stations which were definitely recovered have been indicated in red on the boat sheet, in field plotting some discrepancies were noted but it is believed that these may be due to transfer from the blueprint of the Silt Survey. It is recommended that in smooth plotting this work the carefully transferred positions of these stations be held fixed and the sextant control adjusted to these. The tracing of shore-line from the mosaics is far more definite for the area than the contour sheet. Signals located by this party have been indicated on this tracing to aid in adjusting this shoreline. No smooth plotting contemplated.

SURVEY METHODS:- Standard wire-drag practice has been followed. The drag was set deeper than required by the instructions to cover any chance of lift. Three sixteen foot skiffs and outboard motors were used, these being the only boats available. This necessitated reducing the length of drag to 2400 ft. as all that towing equipment would handle. The drag equipment was standard, using 1/8" ground wire and 35# weights.

DANGERS:- A log boom is maintained across entrance channel to dam.

WIRE DRAG GROUNDINGS:- All groundings near beach with exception of Positions 3 and 4 "d" and 1 "e" which were hangups on trees and brush. Positions of "d" day were cleared on the following day, while hangup on 1 "e" pulled loose from brush.

COMPARISONS WITH PREVIOUS SURVEYS:- No previous surveys.

GENERAL INFORMATION:- The runways desired by the Civil Aeronautics Administration as indicated by Mr. F. J. Rhody have been covered in excess of forty feet effective under present water level conditions. The long runway is excellent but the short cross runway is of limited length. This later runway is restricted in length by underwater brush and trees near the islands at the northeast end.

During the time that the survey party operated in this area, one Canadian Plane landed and fueled from a tank truck. The area which they used is indicated on the boatsheet.

Fluctuation of water level in this reservoir has been very great, planes intending to use the area should obtain information from the dam before attempting landing in any part of the reservoir.

CORRECTIONS TO PROJECT VICTOR DESCRIPTION SHEET:- Prevailing winds during the period were SW, local information states that all winds are shaped by the valleys, strong cross winds may be encountered. The wind force and direction is very confused in the area off the dam. Minimum depth of water, silt at the dam has accumulated 55 feet since 1911. Docks and boats available; no docks, only small skiffs are available. Personnel accommodations; the S.P. hotel mentioned is to be dismantled, all equipment was being removed while the party operated in the area.

## ROOSEVELT RESERVOIR

## STATISTICS

## WIRE-DRAG

Date	Letter	Volume	Drag Length Ft.	Positions	Statute Miles	Soundings
1942						
May 4,	A	1	2400	59	5.3	3
May 5	B	1	2400	49	5.1	0
May 6	C	1	2400	17	0.7	1
May 7	D	1	2400	30	2.6	4
May 8	E	1	2400	29	2.2	2
TOTALS				184	15.9	10

AREA COVERED:- 4.2 Square stature miles.

Respectfully submitted,

*Max G. Ricketts*  
Max G. Ricketts,  
Lieutenant, C. & G. Survey.

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ROOSEVELT RESERVOIR  
ARIZONA

WATER LEVEL DATA

Date 1942	Height Construction Datum	Height Sea Level Datum
April 30	232.16	2134.16
May 1	232.17	2134.17
May 2	232.16	2134.16
May 3	232.15	2134.15
May 4	232.13	2134.13
May 5	232.10	2134.10
May 6	232.04	2134.04
May 7	231.94	2133.94
May 8	231.86	2133.86
May 9	231.78	2133.78

The above data is from the gage operated by the Salt River Water User's Association at Roosevelt Dam. Records are in the custody of Mr. Ben Reynolds, Chief Hydrographer, Roosevelt, Arizona. The construction datum zero is given as 1901.95 feet in some records and 1902.1 feet in others.

Boat sheet and records have been carefully examined. The purpose of the survey has been accomplished and smooth sheet and formal review are not considered necessary. All pertinent information is clearly indicated on the boat sheet.

J. A. McCormick

June 3, 1942

(4)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

Merch 31, 1942

H6733 WIRE DRAG

To: Chief, Section of Hydrography,  
Division of Coastal Surveys.

From: Chief, Division of Charts.

Subject: Data for seaplane base surveys Project V,  
Roosevelt Reservoir.

The following data for the above survey are submitted  
herewith:

1. ✓ Boat sheet, approximate scale 1:20,000, with  
shoreline shown in black at water level 2,130  
feet and with under-water contours in pencil.
2. ✓ One copy of contour survey made by the Salt River  
Valley Water Users Association (1:12,000).
3. ✓ Eight sheets aerial mosaics, approximate scale  
1:10,000, together with a smaller scale  
mosaic and two oblique photographs showing  
notes made by the reconnaissance party.  
Also tracing of shoreline from the mosaic.
4. ✓ Phoenix sectional aeronautical chart.

This boat sheet is made from the 1:12,000 scale Salt River  
contour survey. Shoreline is the 2,130-foot contour.

The mosaic shoreline (photographs taken with water surface  
at 2,130 feet) will not fit the contour survey except over  
short distances. This is believed to be largely due to  
scale and azimuth errors in the mosaic which was not well  
controlled.

Where desirable to transfer shoreline details from mosaic  
to boat sheet do so by fitting short sections of shoreline  
at a time.

*Robert W. Wood*  
Survey Section  
Chief, Division of Charts.