



U. S. COAST AND GEODETIC SURVEY.

F. M. Thorn, Superintendent.

State: *California.*

DESCRIPTIVE REPORT.

*Hydrographic Sheets Nos. 1784
+ 1785.*

LOCALITY:

*Suisun Bay &
Vicinity*

1887.

CHIEF OF PARTY:

Lt. D. Peacock, U. S. N.

Asst. in Chg. for Registry

55.

Give here full address to which reply should be sent:

Navy Yard, West Island, Cal

U. S. Coast and Geodetic Survey,

Sr. Hassler

Navy Yard

Nov. 16, 1887

Mr. F. M. Thorn,

Superintendent U. S. & G. Survey,
Washington, D. C.,

Sir:

In accordance with "Instructions and memoranda for description reports to accompany original sheets I submit the following report ¹⁷⁸⁴ "A" of sheets no. 5 and ¹⁷⁸⁵ 6.

Diamond ② is called in the sounding Books Diamond
Greek ② " " " " " " Greek.

In the channel passing to the N. & E. around beacons nos 8 & 10. then to the southward through Broad Slough and on up the San Joaquin River passing on either side of West Island, the least water found is 18 ft. in Broad Slough about 1/4 of a mile N. W. of Bow signal.

There is also another channel, through Broad Slough, it passes along the western shore of the Slough and has no less than 18 ft. of water. - The greatest depth is 12 fms, the least 15 ft.

Just above Beacon 8, the Sacramento Channel passes a red spar buoy near the west and northern shore until you pass the east end of the Small Island west above Collinsville - where the water shoals to 17 ft., after this the channel is very crooked - the greatest depth is 6.2 fms and least 13 1/2 ft., from Collinsville to End of Sheet.

There is a channel, coming from Wisconsin Bay up the San Joaquin River, passing through New York Slough - In entering the slough, stand on up the river until the wharves at Black Diamond are seen through the middle of the entrance to the slough, then stand in for the wharves, on the west side of the entrance there is a beacon, white with

a black diamond painted in the centre. The greatest depth is 6 fms and least $13\frac{1}{2}$ ft. There is a shoal just below Las Medaños and just above where a slough runs out of New York slough, this shoal is nearly in the centre of the slough and has but $1\frac{1}{2}$ ft of water on it. — The best water is near the south bank, In coming out of New York slough pass close to the northward of a red beacon.

A Pilot is required for the rivers & sloughs. — The channels are permanent and the water seems to be deepening. There are no harbor improvements — Good holding ground any where — Current runs fair with channel.

1785

Sheet 6.

Good year Δ is called in sounding books Good. The signal Ark on sheet six is not the same as ark on sheet three.

Coming out of Marguier's Straits the channel runs to the N^d & E^d passing the, horizontal striped, buoy on the starboard.

hand upon sighting spar buoy, (red.) and when one mile from it - the water gradually shoals from 5 fms to 11 feet. This red spar buoy is on the spit between the mouths of the Suissun Creek and Montezuma slough.

The shallow mud flat is about $\frac{1}{4}$ of a mile long and after passing this leaving the Buoy on the port hand we enter Montezuma slough. - The channel in the slough has plenty of ~~water~~ its greatest depth being 8 fms. and least 18 ft until we get to signal Old from which place to the Eastern mouth of the slough at places there is but 8 ft. of water, therefore the greatest depth is 8 fms and least depth 8 ft.

Suissun Creek, is entered by leaving the Red spar buoy on the Starboard hand - here also we find a mud flat about $\frac{1}{2}$ mile long on which there is but 10 $\frac{1}{4}$ ft. after passing this we find a good channel from 10 $\frac{1}{4}$ fms to 18 ft deep to within a mile of Suissun Ck.

From this point the water gradually shoals having only $3\frac{1}{4}$ ft at the wharf. The greatest depth in the creek is $10\frac{1}{4}$ fms and the least $3\frac{1}{4}$ ft.

About one half a mile to the northward of Lark signal, on Montezuma Slough, there is a creek running up to a place called Deerston - its greatest depth is $16\frac{1}{4}$ ft, and least is 1 foot, at Deerston.

Just to the westward of Red signal there is a cut off from Montezuma slough to Swissen creek - it enters Swissen creek about four miles below Swissen city. Its greatest depth is $33\frac{1}{4}$ fms and least 7 ft. This slough is bridged.

A Pilot is required - the channels are permanent - no improvements, good holding ground any where, and current runs fair with channel,

Very respectfully

D. Peacock,

Lieut. U.S.N., Comdr.,
& Asst. U.S.N.