

4402

Form 304

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, Director

C. & G. SURVEY

L. & A.

APR 6 1929

Acc. No.

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No.

H/

4402

4402

LOCALITY

Point St. George

CRESCENT CITY

AND VICINITY

~~NORTHERN CALIFORNIA~~

1928

CHIEF OF PARTY

F. G. ENGLE, H. & G. ENGINEER

GOVERNMENT PRINTING OFFICE

T 4402 (1928)

Several rocks are being carried forward in red from T 1132 (1869) and from T 1199 (1870) in accordance with accepted methods of treatment. The most important ^{of these} rocks in Lat 41-46.2 Long 124-15.25 and in Lat 41-46.9 Long 124-15.3 have been located by the contemporary Hydrographic survey.

Reviewed: W. J. F. J. J. J.
March 9, 1935

DESCRIPTIVE REPORT

T O A C C O M P A N Y

TOPOGRAPHIC SHEET NO. _____ SCALE 1:10,000

COAST OF NORTHERN CALIFORNIA
CRESCENT CITY

LIMITS: This sheet includes the coast-line of Northern California in the vicinity of Crescent City and Point St. George. The sheet extends from latitude $41^{\circ} 42.6'$ to latitude $41^{\circ} 48.0'$ north and between $124^{\circ} 08'$ and $124^{\circ} 16.8'$ west longitude. The interior of the sheet was detailed as far as practicable to the limits.

GENERAL DESCRIPTION: The area included in this sheet is for the most part flat and wooded, running out to rocky bluffs between Battery Point and Point St. George. The Eastern border is fringed with mountains. On the north the plains extend to the shallow basin of Lake Earl.

A wide sand beach extends from Battery Point east and south to the limits of the sheet. From Battery Point to Point St. George the coast-line is rocky and there are a great number of outlying rocks that continue off-shore forming St. George Reef. The largest of the outlying rocks are Whaler Island and Castle Rock. Castle Rock rises to an elevation of 233 feet.

The area south of Crescent City near the beach is partially cultivated. The balance of the cleared land is used for grazing. The wooded area are covered with second growth pine and redwoods.

Crescent City has a population of about 2000. Its principal industries are dairying and lumbering. It has no railroad connections with the outside but is at the junction of three improved highways. The Roosevelt Highway runs North, the Redwood Highway runs East to Grants Pass and Medford Oregon and the same highway runs south to Eureka. There are two small docks in the harbor that can accomodate only small ships. There is almost always a surge in the harbor that makes docking difficult. A breakwater is in process of construction by the U.S. Engineers. It will extend from Battery Point out toward Round Rock.

SURVEY METHODS: The triangulation stations, Beach, Mussel Rock, Whaler Island, Round Rock, Crescent City Lighthouse, Steamboat Rock, Catholic Church Steeple, Castle Rock, St. George 2, Radio Station Tank, Crescent City Water Tower, Pass and Red Roofed White House were recovered and used as control for this sheet.

Signals consisting of poles and cross banners were built over the triangulation stations; Pass, Whaler Island, Steamboat Rock, and St. George 2. A large hydrographic signal had been previously erected over triangulation station Beach.

The following topographic signals were erected and located for hydrography; Cush, Bear, Root, Door, Ban, Stu, Cap, Ola, Wag, and Low. The following signals were natural objects located by

topography and used for hydrography; Chi, Lum, Rot, Oil, Boom, Hobbs Wall water tank, Travel, Lauf, Dock, Wood, Tree and Palm.

A traverse was run beginning with a three point fix on the beach in front of Crescent City, using triangulation stations, Crescent City Lighthouse, Round Rock and Beach for the original position, and continued south along the beach to the limits of the sheet. The traverse was checked at triangulation station Beach. Each plane table set-up was checked by resecting on Whaler Island or Round Rock. The last plane-table setup south of Cushion Creek was later rechecked when running the traverse from triangulation station Beach to triangulation station Ledge on the adjoining sheet to the south. While this traverse was being run three cuts were obtained to the Red Roofed White House formerly located by triangulation (not checked by triangulation), position found to be correct. A traverse was run from the end of the beach traverse, north along the Redwood highway and across to the Red Roofed White House and on to Gasquet Road then east to triangulation Station Pass. Checked within allowable error. While running these traverses adjacent country was detailed by rod readings. Numerous elevations were obtained.

From a previously marked position at foot of mountain below triangulation station Pass a traverse was run up the Hobbs Wall R.R. south, to a point where it crosses the ridge, here the traverse was turned and continued north along the top of the ridge to triangulation station Pass. Elevations were determined using the top of signal at b Beach and Whaler Island for base. Their elevation had been previously determined. From these numerous elevations the contours were drawn. Also adjacent country was detailed from rod readings and cuts.

Beginning at plane-table position on beach in front of Crescent City a traverse was run to the Lighthouse locating dock and Breakwater. A traverse was run north from the Lighthouse to triangulation station St. George 2 and the plane-table positions marked. As the traverse was out 11 meters an adjustment was made. From the adjusted plane-table positions the signals were located, outlying rocks cut in and the shore-line detailed. All the rocks between Battery Point and Point St. George were located by three or more cuts and the important outlying rocks were later verified by the hydrographic party.

While making the beach traverses the four entrance buoys were located with at least six cuts to each and good intersections were obtained.

A traverse was run from the Crescent City Water tower to signal Wag and territory detailed. Traverse checked. A traverse was run along the highway from triangulation station C.C. Water Tower to triangulation station Tank at Radio Station. The traverse was out 18 meters so an adjustment was made. Buildings in north Crescent City were located and the territory next to the highway was detailed.

A traverse was run from the tank at the Radio Station north to the beach and along the shore south to St. George 2.

A traverse was run from the Tank at the Hobbs Wall mill along the railroad to the intersection of the Grants Pass and Gasquet roads. Here a resection on Whaler Island and triangulation station Pass checked the position. From this position a traverse was run out the Grants Pass road to limit of sheet. Only check at end of traverse was a resection on Tri. Sta. Pass. Territory detailed during progress of traverse.

From a point on tangent of railroad near the Hobbs Wall Mill a sight was taken out on railroad running north. As the railroad runs in a straight line--line was drawn on the sheet. Then a traverse was run north to limits of the sheet and return. Checked within allowable error.

A traverse was run from the C.C. Water Tower out the Roosevelt Highway to limit of sheet and back to Water Tower and adjusted. The adjoining country was detailed by rod readings and local information.

The Crescent City street system was layed out by traversing along Front Street from the Lighthouse to the Hobbs Wall tank and from the C.C. Water Tower to signal Lauf. This was checked by a traverse between the Water Tower and the Catholic Church. All outlying buildings were located by rod readings and the buildings in the business section were located using a steel tape.

Whaler Island and Castle Rock were occupied and detailed by rod readings. A short traverse was run on Castle Rock. Steamboat and Round rock were occupied and details sketched in.

Elevations were computed using the hypsograph. A magnetic meridian was determined at triangulation station Beach on June 28.

CHANGES AND DISCREPENCIES: The dock paralleling the Hobbs Wall Dock only partially completed has been abandoned and a new dock cooperated by the Shell Oil Company and the B. and A. S.S. Company has been constructed out to Pelican Rock.

What was known as Preston Island now has a neck of land connecting it with the mainland. This neck has been built up, as Preston Island or Wood Island as it is locally called is the source of the rock for the breakwater under construction.

The low-water line as shown on the 1859 bromide extends farther out than that determined by the present survey. There has been considerable change in the shoreline near Crescent City.

An additional rock awash was located about 200 meters E x N of Steamboat Rock. There is some discrepancy between the shoreline and rocks between Battery Point and Point St. George although the outlying rocks check as to position fairly well.

Penciled notes on sheet regarding stage of tide at which rocks were awash were obtained from the hydrographic party.

Work on this sheet was executed by party from the Str. Discoverer from June 26, to July 31, 1928, according to instructions dated March 13, 1928. Party consisted of one officer and two men.

Magnetic declination scaled	20° 51'
Correction	5.9'
Observed declination	20 56.9

PLANE TABLE POSITIONS

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height		Remarks
	°	'		°	'		Meters	Feet	
Cush	41	42	1631	124	08	951	6	White washed log on beach	
Chi	41	43	241	124	08	759	28	Chimney of red roofed house	
Bear	41	43	236	124	08	1131	8	Root of large tree washed onto beach	
Root	41	43	758	124	08	1369	7	Root of tree white washed	
Door	41	43	1843	124	09	581	12	White rectangular banner over log	
Ban	41	44	548	124	09	944	15	Pole and banner fastened to log	
Lum	41	44	1006	124	09	1221	20	Water tank at Flannagan Auto Camp	
Stu	41	44	1171	124	10	252	8	White washed stump	
Rot	41	44	1414	124	10	716	10	Sign alongside highway.	
Oil	41	44	1597	124	10	974	22	Outer Shell Oil tank	
✓ Boom	41	44	1256	124	11	120	40	Boom at end of Shell Dock	
Tank	41	45	738	124	11	523	72	Tank at Hobbs Wall Mill	
Travel	41	45	406	124	11	796	54(app)	Tower on Travelers Hotel	
✓ Lauf	41	45	159	124	11	1051	60(app)	Red gable on the Lauff Hotel	

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STATISTICS

Statute miles of shore-line-----	13.63
Statute miles of creeks -----	5.97
Statute miles of roads -----	20.10
Statute miles of railroads -----	10.92
Statute miles of streets -----	10.92
Square statute miles of area -----	16.21

RESPECTFULLY SUBMITTED,

A. C. Thorson
A. C. Thorson,
Jr. H. & G. Engineer,
Topographer.

APPROVED AND FORWARDED,

F. G. Engle
F. G. Engle,
H. & G. Engineer,
Chief of party.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DEM

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

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4402
Crescent City and Vicinity, California
Surveyed in 1928

Instructions dated March 13 and May 8, 1928 (DISCOVERER)

Chief of Party, F. G. Engle.

Surveyed and inked by A. C. Thorson.

The survey complies with the General Instructions.

It also complies with the specific instructions, except that there are a number of rocks that appear on the old sheets and on chart 5895 which are not shown on T. 4402, nor is there any indication that they are non-existent.

Pencil notations of the doubtful details, which should be cleared up by the field party, have been placed on the sheet.

The representation of the highway bridge over Elk Creek appears to be defective.

The field drafting is excellent.

Reviewed by E. P. Ellis, July, 1929.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

Chief, Division of Charts

Chief, Div. of Hyd'y and Top'y

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PLANE TABLE POSITIONS

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height Feet	Remarks
	o	'		o	'			
✓ Dock	41	44	1399	124	11	963	42	"V shaped boom on Hobbs Wall Dock
✓ Wood	41	44	1315	124	11	1052	61	Highest derrick on Hobbs Wall Dock
Cap	41	45	777	124	12	943	50	Whit wash on Hall's Bluff Elev.app.
Ola	41	45	151	124	12	1300		White wash on rock bluff
Wag	41	45	793	124	13	342	56	Tripod covered with white cloth
Low	41	45	1273	124	13	537	18	White washed rock
Tree	41	45	1554	124	13	910	28	Whit washed trunk of lone pine
Palm	41	46	403	124	14	271		Lone palm tree
W.W.	41	46	537	124	14	1115		White washed rock.
* Nox	41	47	694	124	14	1072	14	Pole with cross banner
* Maud	41	47	381	124	14	1300	23	Tel. pole with White washed boards
* Tree	41	47	1022	124	14	847	6	Root of tree white washed
* Bole	41	47	1368	124	14n	662	15	White washed pole

* From sheet F.

Scales are
✓ 1000

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A
APR 6 1929
Acc. No.

REG. NO. 4402

TOPOGRAPHIC TITLE SHEET

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

Field Letter H

REGISTER NO. 4402

State CALIFORNIA

General locality ~~NORTHERN CALIFORNIA~~ Point St. George

Locality CRESCENT CITY AND VICINITY

Scale 1:10,000 Date of survey June 26 to July 31 1928

Vessel STR. DISCOVERER

Chief of Party F. G. ENGLE

Surveyed by A. C. THORSON

Inked by A. C. T.

Heights in feet above MHW to ground ~~xxx tops of trees~~

~~Contour~~ Form line ~~Approximate contour~~ Form line interval 20 feet

Instructions dated MARCH 13, 1928

Remarks: