

4404

Form 504

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. E 4404

LOCALITY

Near Oregon Boundary

~~SMITH RIVER~~

Mouth of Smith River

NORTHERN CALIFORNIA

1928

CHIEF OF PARTY

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

GOVERNMENT PRINTING OFFICE

NOTED

DESCRIPTIVE REPORT

T O A C C O M P A N Y

TOPOGRAPHIC SHEET NO. _____ SCALE 1:10,000

Coast Of NORTHERN CALIFORNIA

NEAR OREGON BOUNDERY

LIMITS: This sheet includes the shore line of Northern California near the mouth of the Smith River and South of the Oregon line, between the latitudes, $41^{\circ} 52.5'$ and $41^{\circ} 59.5'$ North and extending from a half to a mile inland.

GENERAL DESCRIPTION: This stretch of coast-line has a sandy beach except at Pyramid Point. South of the mouth of the Smith River, for a quarter of a mile inland there is a solid stretch of wind blown sand dunes running to the southern limit of the sheet, These dunes are bounded on the East by pines and brush.

At the river mouth there is a series of connected lagoons that are effected by the tides. Some of these are former channels of the Smith River. The river valley is flat and extends inland several miles.

North of the Smith River the land rises from a 20 to 60 foot clay bluff near the shore line. The rise is gradual for the first half mile then more abrupt to an elevation of about 1000 feet. The steep mountain rise is covered with a dense growth of redwoods and pine.

Low Rocks lie about a mile west from the mouth of the Smith River and are bare at all stages of the tide. There are two sunken rocks and one bare rock north and northwest of Cone rock.

There is a cone shaped hill on Pyramid Point rising to an elevation of 273 feet. Triangulation station Sinestia is located on this hill.

CHANGE OF COAST LINE: There has been little or no change in the shore line of this sheet. The sand beach has moved slightly one way or the other and the clay bluffs north of Pyramid Point have receded slightly. These changes are most likely due to erosion.

The Smith River has changed its channel, now coming into the lagoon farther south and its mouth has moved south about 500 meters. The lagoon has also changed its shape in many ways.

SURVEY METHODS: The triangulation stations, Dune, Sinestia, and Cone Rock were used as control for this sheet.

Twenty four new signals were built and located for hydrography. They were; Post, Dot, Hi, Spi, Mess, Ex, Dia, Green, Nail, Suf, Vir, Bum, Spit, Riv, Smith, Moss, Tit, Cel, No, Kik, Nob, Niz, Tres, and Ead.

Signals were first built for hydrography the entire length of the sheet. A number of flags were planted in the interior. A traverse was run from triangulation station Dune to triangulation station Sinestia. This traverse checked within 5 meters. A traverse was next run from Sinestia to the Northern limits of the sheet and checked by resecting on triangulation station Cone Rock. This traverse was also connected to the work on the next sheet. When reaching the northern limits of the sheet the traverse was continued back south over the Roosevelt Highway back to Sinestia and checked within the allowable error.

While running the traverse between Dune and Sinestia the flags that were previously planted were cut in and thus located. A traverse was run along the highway from triangulation station Sinestia to the flag north of the highway near the edge of the sheet. The interior along the lagoon and Smith River was detailed by rod readings and short traverses between flags.

The area south of Smith River was contoured by running a second traverse along the tops of the dunes. Elevation were determined using the hypsograph, elevation located by rod readings. Many elevations were also determined north of the Smith River to check the contours traced from the bromide of the 1870 survey. These contours were found to be accurate. Offshore rocks were cut in by three or more cuts.

Magnetic meridian was determined at triangulation station Sinestia on September 17, 1928.

Party consisted of one officer, three men--using a White truck.

Work executed by party from Str. Discoverer, Aug. 30 to Sept. 27, 1928, according to instructions dated March 13, 1928.

Magnetic declination scaled	19° 45'
Correction	5.9'
	<hr/>
	19° 50.9'

Respectfully submitted,

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

Approved and forwarded,

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

Inspected and found adequate.

E. P. Ellis

July, 1929

STATISTICS

Statute miles of shore-line-----	8.63
Statute miles shoreline rivers-----	11.50
Statute miles of shoreline ponds-----	2.00
Statute miles of creeks-----	0.90
Statute miles of roads -----	5.46
Statute miles of railroad(abandoned)-----	3.70

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PLANE TABLE POSITIONS

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height Feet	Remarks
	o	'		o	'			
Post	41	52	1420	124	12	762	10	Post erect and white washed.
Bot	41	53	324	124	12	642	8	Pile of driftwood white washed
Hi	41	53	810	124	12	523	32	Pole square banner on sand dune
Spi	41	53	1128	124	12	520	14	Marked with $1\frac{1}{2}$ " galv. pipe Tripod covered with white cloth
Mess	41	53	1489	124	12	462	12	Pole and banner
Ex	41	54	16	124	12	423	18	Pole with cross banner
Dia	41	54	400	124	12	381	24	Pole with diamond shaped banner
Green	41	54	788	124	12	321	33	Pole cross banner below high dune.
Nail	41	54	1227	124	12	364	12v	Pole with square banner nailed to log.
Suf	41	54	1697	124	12	313	10	Pole with cross banner on beach
Vir	41	55	217	124	12	204	24	Tripod on dune white covered
Bum	41	55	733	124	12	238	30	Pole and banner
Spit	41	55	1300	124	12	231	18	Covered tripod on dune
Hiv	41	55	1844	124	12	207	13	Pole with cross banner
Smith	41	56	810	124	12	173	10	Pole with square banner
Moss	41	56	1549	124	12	573	30	White wash on rock

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PLANE TABLE POSITIONS (Cont.)

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height Feet	Remarks
	o	'		o	'			
Tit	41	57	510	124	12	765	40	White wash on face of bluff
Cel	41	57	1088	124	12	381	70	White wash on face of cliff in from beach.
No	41	57	1652	124	12	370	43	Pole with sq. ban. fastened to bldg.
Kik	41	58	290	124	12	354	34	Pole and banner
Nob	41	58	682	124	12	230	40	White wash on rock outcrop.
Niz	41	58	1265	124	12	298	50	Pole and banner edge of bluff
Tres	41	59	111	124	12	307	68	Pole and square banner.
Ead	41	59	792	124	12	612	37	White washed rock

Above
MHW

Scaled Acc
✓ CWN

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Form 587a

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U. S. COAST AND GEODETIC SURVEY

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

REG. NO. 4404

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 E

REGISTER NO. 4404

State CALIFORNIA

General locality ~~NORTHERN CALIFORNIA~~ Near Oregon Boundary

Locality MOUTH OF SMITH RIVER AND NEAR OREGON LINE

Scale 1:10,000 Date of survey AUG. 30 TO SEPT. 27 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 ~~to mean low water~~

Contour ~~Approximate contours from~~ interval 20 feet

Instructions dated MARCH 13, 1923

Remarks: