

Form 504							
DEPARTMENT OF COMMERCE							
U. S. COAST AND GEODETIC SURVEY							
E. Lester Jones , Director							
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State: ORECON							
DESCRIPTIVE REPORT							
Topographic Sheet No. B 4401							
LOCALITY							
Oregon Cook Point							
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Curry County Whales Head to							
Mack Arch to Whalchead							
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<i>199</i> 8							
10.00							
CHIEF OF PARTY							

SOVERNMENT PRINTING OFFICE

F. G. Engle, H. & G. Engr.

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. B * - - - - - - - - - - - - SCALE: 1; lo,000

Instructions Dated March 13, Supp. May 8, 1928. Str. DISCOVERER

EXTENT: This sheet extends from Crook Point to a point on the shore line opposite \(\triangle \) Whalehead. The entire shoreline and all off-shore rocks were relocated.

GENERAL DESCRIPTION: The shoreline is bold and abrupt along this section of the coast, with the high-water line at the base of the bluff, except for short stretches in some of the bights where there is a small beach between the high-water line and the bluff. The bluff is slightly convex from Crook Point south to the small headland opposite Yellow Rock, but from here south the bluff is bare rock, for the most part, and varies from forty or fifty feet up to two hundred feet in height. The character of the shoreline is well shown by the topographic sheet executed in 1873 and has not been duplicated on thes sheet.

SURVEY METHODS: The shoreline, rocks, and important contours were transferred from the photostat of Sheet 1317, and the location obtained by the &ld and new work was compared as the topography progressed.

A traverse was run from \triangle Clay southward, and from \triangle Whalehead northward, meeting near the center of the area to be surveyed. The error in alignment was three meters and the error in distance thirty meters. A section of the traverse from the north, wrnn under very unfavorable conditions, was rerun, and the closing error reduced to eight meters, which was adjusted.

Rod readings were taken on the shoreline, where ever possible, supplemented by cuts, and angles of depression were taken to points impossible to reach, where the plane-table was at sufficient elevation to give the desired accuracy. Before using angles of depression the elevation of the instrument above the water line was obtained and checked, and angles less than twenty degrees were seldom used.

Numerous cuts were taken to off-shore rocks to determine their location and shape, and it was found that a number of

them were shown too large on the previous heet; and a considerable part of the change of position was due to this feature. The majority of the rocks were shifted slightly, none of the changes being large, and in only one instance was a rock shown on the previous sheet that did not appear on the ground. This discrepancy was noted of the topographic sheet in pencil.

From Mack Arch to opposite Yellow Rock the old and new location of the shore-line agreed quite closely, and any changes might be laid to erosion. South of Yellow Rock the coast is very difficult, and wide discrepancies in location were obtained in some of the bights and around a few of the headlands. Near the old triangulation stations the shore-line, as shown on the photostat, agreed with the new location, and it appears that the shifting in the bights may be due to faulty traverses run to these points. Along the southern end of the sheet the new location coincided quite closely with the old position.

A few elevations were taken to check the contours, and in a majority of instances were found to agree with those shown, a few positions being in error by a considerable amount, especially on steep slopes and where vegetation interferred with sights to the extreme top of the ridge. The character of the country is as delineated by the contours, and the creeks are as shown. In recent years the trees and brush have grown out to the top of the bluff, along the central portion of the area, and it is impossible to obtain any elevations without taking considerable time and running a special traverse.

MAGNETICS: Declinatoire #175 was used to obtain the magnetic variation at Whalehead.

True variation - - - - - - - 20° 24' E

Respectfully submitted,

Approved and forwarded:

F. G. Engle,

Chief of Party.

Gilbert R. Fish,

Aid.

Topographer.

PLANE TABLE POSITIONS:

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	Object:	Latitude	D.Pi.	L	ongitu	ide D.M.	Description:
	##	42-09 -	1673	12	24-21	916	5 Whitewash on rock, face of bluff.
1	Shin	-1 0 -	220	~	-21	:·107]	lSignal cloth on bush, top of bluff.
	Top	-10 -			-22	 4 75	several miles about 18thg.
	Point		953				'Peak of westerly of 3 light brown pointed rocks.
	Lost		1131				3 WW on face of bluff about 40
	Tree		19				SSignel cloth in tree, on paint Elev. 300'
	Dead		647				Small dead pine tree(bushy), on point.
	Pine	-11 -	885		-22	 409	part of island. Rock has a low portion extending
	High	-11 -	1453		-22	713	to south, Top of knob on rock south
							of point,
	Dot	-11 -	1560		-23	233	5Highest point of white tipped black rock about 1 mile south of Yellow Rock 43'
	Spire						Rocky peak on NW point of jutting land.
	Yel	- 12 -	1253		-2 3	432	Top of long hump on Yellow
	Tip	13 -	464	~~	-22	1007	Rock 84°
	Row	13 -	777		-22	1183	WW on face of bluff.
	Pest	13 -	1332		-23	256	Signal on top of small grassy knoll.
	Wash	14 -	86		-23	668	WW rock on top of bluff.

	STATISTICS FOR TOPOGRAPHIC SHEET NO. 1317-B	3
Statu	ate miles of shoreline 14	1.4
Statu	ite miles of roads	.2
Area,	_square miles	2.5

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

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4401

Whales Head to Mack Arch, Oregon

Surveyed in 1928

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

Chief of Party, F. G. Engle.

Surveyed and inked by G. R. Fish.

This survey complies with the general and specific instructions. The old surveys were transferred to the sheet for checking, as instructed, and the new survey should be used for chart compilation of shoreline and rock details to the exclusion of the old work.

Rocks and islets form the dominating features of this sheet, and the representation of the rocks is faulty. The topographer appears to have departed from Coast Survey practice in the use of sunken and awash rock symbols.

On low water areas there are 36 sunken rocks, which is an impossible formation. They probably should be awash rocks. Outside of the low water line are 10 awash rocks and 243 sunken rocks. Many of the sunken rocks are isolated and have no connection with alongshore reefs. In view of the difficulty in locating this class of rocks by the topographer it is believed that most of them were visible, in which case they are dry or awash.

The majority of these rocks, as well as many of the dry rocks, were shown of microscopic size and had to be retouched in the office.

The junctions of the shoreline with the adjoining sheets are adequate, but the representation of rocks at the junction with T. 4410 differs. There is no way to decide which sheet is correct.

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

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

Approved:

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

(Signed) L. O. Colbert,

Chief, Division of Charts

Chief, Field Records Section (Charts)

The freent survey had several notes in pencel showing rocks and islands which were not found. There features were thoroughly unestigated in accordance with standard methods of treatment of such matters. Rocks whose existences has been desproved are not carried forward and at the same time pencel motations, have been removed as no longer mecessary. However, this method of leaving a pencil notation for each rock which has been disproved in highly desirable where the descriptive Report the contains only a general statement that rome rocks were next found.

Reversed Het Jackouch

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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 B

State Oregon

General locality Gounty Cook Point

Whales Head to Mack Arch
Locality Mack Arch to Whalehead

Scale 1; 10,000 Date of survey Oct. & Nov. 19 28

Vessel U.S.C.& G.S.S. DISCOVERER

Chief of Party F. G. Engle

Surveyed by Gilbert R. Fish, Aid.

Inked by Gilbert R. Fish, Aid.

Heights in feet above H.W. to ground to tops of trees

Contour Approximatexcontour Form line interval 20 feet

Instructions dated March 13. Supp. May 8 1928

IL S. GOVERNMENT PRINTING OFFICE: 15

Remarks: