

4400

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director

State: OREGON

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. A

4400

LOCALITY

~~Southern Oregon~~ Cape Sebastian

~~Curry County~~ Mack Arch to

~~Cape Sebastian to Mack Arch~~

1928

CHIEF OF PARTY

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

GOVERNMENT PRINTING OFFICE

T 4400 (1928)

In accordance with standard practice, a few rocks are being carried forward, ^{in red} from former surveys T 1317 (1872) and T 1588 (1873) as not disproved in absence of positive information that a thorough search was made and the rock was not found.

A sunken rock in Lat 42.14.05 Long 124-24.9 was shown in red had a pencil note "Did not observe E. D." It is not considered that this rock has been disproved and it is ~~being~~ ^{being} carried forward on the contemporary hydrographic survey. In conformity with the practice of leaving no pencil notations on the surveys, this note has been taken off and is preserved in this review.

Reviewed Det. Paulson
March 9, 1935

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. A - - - - -SCALE 1: 10,000

CURRY COUNTY, OREGON.

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

EXTENT: This sheet extends from Cape Sebastian to a point on the shore-line midway between Crook Point and Mack Arch; the off-shore rocks are located south to Mack Arch. Contours and detail topography to the top of the first ridge inshore are included.

GENERAL DESCRIPTION: There is a sandy beach along most of the shore-line, with the high water line at the base of the bluff, except for a distance on either side of the Pistol River where there is a stretch of sand back of the high water line.

The large sand dune south of the Pistol River is slowly progressing inland, covering up the trees as it progresses. At present the inshore side of the dune is at the limit of the contours, and has a drop of forty feet to the old ground, in most places.

The land covered by this sheet is used for grazing and is well grassed, with a little brush here and there on the hillsides.

SURVEY METHODS: The shoreline was not transferred from the photostat of sheet No. 1588, the old work being on a different scale and a reconnaissance survey.

A closed traverse was run along the shore-line, and control ~~for~~ contours was obtained by both traverse and three point fix, using visible triangulation stations and topographic signals previously located ~~for~~ the fix. Where possible the elevations of tops of hills were obtained by cuts from several positions of the plane table, the elevations not being used if the value as given by the several cuts did not agree within a few feet.

The traverse from Dolan to Sebastian closed with an error of five meters, which was adjusted; and the traverse from Dolan to Clay closed with an error of six meters, which was adjusted.

The area from Crook Point south was originally on sheet 1317, but due to atmospheric conditions and the long distance to Whalehead the work was executed on this sheet,

checking the traverse by resection on Mack Arch, and tying the traverse in with the sheet to the south.

The elevation of the triangulation stations and important topographic signals was determined early in the progress of the work, and was used to check the elevation of the plane table at each set up. A traverse was run south and in-shore from Dolan, to locate features and obtain elevations, and was tied in with the traverse run along the shore-line.

The positions of the off-lieing rocks were obtained by cuts, taken as the work progressed; the shape of the rocks being obtained by the cuts, and by sketches drawn from several positions around the rock.

MAGNETICS: Declinatoire No. 175 was used to obtain the magnetic variation at Triangulation station Clay.

Variation scaled from topographic sheet - - -	20 57 E
Correction to declinatoire - - - - -	11
True variation	20° 46 E

Respectfully submitted,

Approved and forwarded:

F. G. Engle
F. G. Engle,
Chief of Party.

Gilbert R. Fish
Gilbert R. Fish,
Aid,
Topographer,

This survey complies with the general and specific instructions. A more careful comparison of the new work with T. 1317 and T. 1588 should have been made than appears to be the case. A number of rocks which were carefully located on the old sheets were omitted on the new survey. These omissions were added to the sheet in the office in red ink. They should be used in compilation of new charts.

The field drafting is good, except in the representation of rock details. Most of the small dry and sunken rocks were of microscopic size, and had to be strengthened in the office. Such features should be shown boldly.
E. P. Ellis, June, 1929.

PLANE TABLE POSITIONS

Object	Latitude	D.P.	Longitude	D.M.	Description
Nob - - -	-42-13-	1747	- - 124-24	- - -1306	Top of first W'ly rock north of Mack Arch.
Squ - - -	" -14-	1312	- - " "	- - - 812	Top of pyramid shaped rock; Elev. 125'
Pin - - -	" " - -	992	- - " "	- - - 84	WW rock on small point.
Bow - - -	" " " -	1281	- - " "	- - - 136	WW near bottom of slope. Elev. about 20'.
Shell - -	" " - -	1566	- - " "	- - - 428	WW above cluster of small rocks.
Sand - - -	" -15-	1252	- - " "	- - - 602	Triangular signal on beach.
Spit - - -	" -16-	71	- - " "	- - - 562	Banner signal on beach.
Top - - -	" " - -	701	- - " "	- - - 528	Flat board signal with black banner on top.
Hi - - -	" " - -	1217	- - " "	- - - 518	Signal on beach near Pistol River.
Lo - - -	" " - -	1389	- - " "	- - - 203	Banner on bluff Np Pistol R.
Good- - -	" 17-	182	- - " "	- - - 557	Cross banner on spit.
Bush- - -	" " - -	782	- - " "	- - - 335	Signal on knoll in shore from north end of spit.
Bron- - -	" " - -	1011	- - " "	- - - 544	Cross banner on top of large rock.
Wash- - -	" " - -	1149	- - " "	- - - 687	WW on rock near HW north of large rock at mouth of Pistol River.
Sandy - -	" " - -	1387	- - " "	- - - 619	Cross banner on beach.
Twin- - -	" " - -	1736	- - " "	- - - 782	WW on W'ly of two rocks.
Cone- - -	" 18-	274	- - " "	- - -1018	Top of conical rock north-east of group at pt. El. 75'
Mal - - -	" " - -	277	- - " "	- - - 963	WW on rock east of Cone.
Riv - - -	" " - -	875	- - " "	- - - 944	WW on rock outside of HW, north of Myers Creek.
White - -	" " - -	1093	- - " "	- - -1050	WW on top of pointed rock.
Tip - - -	" " - -	1295	- - " "	- - -1111	WW tip of rock near HW.
Sig - - -	" " - -	1813	- - " "	- - -1329	Banner on bluff, Elev. 102'.
Black Rock	" " - -	1835	- - 124-25	- - - 122	WW on top of rock at low water line.
Tree- - -	" 19-	344	- - " "	- - - 862	Signal cloth in tree.
Nor - - -	" " - -	508	- - " "	- - -1055	Tree on top of bank.
Rad - - -	" " - -	729	- - " "	- - - 488	Radio shack used by shore station.
Flag- - -	" " - -	737	- - " "	- - - 106	Banner on hill, Elev. 405'.

STATISTICS FOR TOPOGRAPHIC SHEET NO. 1588-A

Square miles covered - - - - - 4.3 (stat.)

Statute miles of shoreline - - - - - 10.5

Statute miles of roads - - - - - 3.0

Statute miles of river shoreline - - - - - 4.2

INDEX CORRECTIONS FOR DECLINATOIRES USED IN 1928

U. S. S. DISCOVERER

These corrections were obtained by comparing the Declinatoires with an Declinometer having a known index error.

The Declinometer was set up in a spot free from magnetic disturbance, and a spot located on the horizon bearing true magnetic north from the station. The Declinometer was then removed and a plane table set up at the station. An alidade was then used to obtain a magnetic meridian on the sheet by sighting on the spot previously located on the horizon, after which the Declinatoires were placed on the plane table and a line drawn along the edge, with the needle on zero. The angle between the magnetic meridian as obtained from the Declinometer bearing, and the line drawn along the Declinaoire, gives the error as compared to the Declinometer. The true index error was obtained by applying the index correction for the Declinometer to the error between the Declinometer and the Declinaoire. Declinometer #4 was used in making the comparisons, and the observations and computations for obtaining its index error are forwarded in a separate folder. Declinometer error: 05.9' to west of Magnetic North.

Declinaoire No.	Angle as measured.	Declinometer Corr.	True Declinaoire Error.
94	0	- 6'	- 6'
118	+49	- 6'	+43
111	+17	- 6'	+11

+sign denotes angle to east of true magnetic north.

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 19, 1929.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4400

Mack Arch to Cape Sebastian, 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.

1. This survey complies with the General and Specific Instructions.
2. A more careful comparison of T. 1317 and T. 1588 should have been made than appears to have been done. A number of rocks which were carefully located on the old sheets were omitted on the new survey. There were no notes to indicate that they were searched for.

These omissions were added in the office to the sheet in red ink. They should be used in compilation of new charts.

3. The field drafting is good, except in the representation of rock details. Most of the small dry rocks and sunken rocks were of microscopic size, and had to be strengthened in the office. Such features should be shown boldly.
4. Reviewed by E. P. Ellis, June, 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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

1400

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 A

REGISTER NO. 4400

State OREGON

General locality CURRY COUNTY Cape Sebastian

Locality Mack Arch to Cape Sebastian
~~Cape Sebastian to Mack Arch~~

Scale 1:10,000 Date of survey Sept. & Oct., 1928

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

Chief of Party F. G. Engle

Surveyed by Gilbert R. Fish

Inked by Gilbert R. Fish

Heights in feet above HW to ground ~~to tops of trees~~

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

Instructions dated March 13, 14 Supp. May 8, 1928

Remarks: