

4410

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
E. LESTER JONES, Director	
C. & G. SURVEY	
L. & A.	
APR 18 1929	
Acc. No.	
Oregon	
State: <del>CALIFORNIA</del>	
DESCRIPTIVE REPORT	
Topographic	Sheet No. 4410
LOCALITY	
Cape Ferrel	
NORTH OF	
<del>BROOKINGS</del> <del>OREGON</del>	
Goat Island to Whales Head	
1928	
CHIEF OF PARTY	
J. C. ENGLE, H. & G. ENGINEER	

GOVERNMENT PRINTING OFFICE

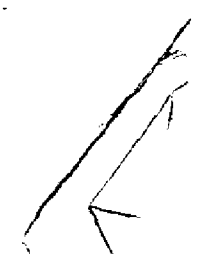
T 4410 (1928)

Two sunken rocks at Lat 42-07.6 Long 124-21.4 and a Lat 47-04.2 Long 124-19.5 which originated with T 1260 (1871) are being carried forward in red on the present survey. The field parties pencil notes regarding rocks which have been disapproved have been thoroughly investigated and after words removed as no longer necessary. These pencil notes were of great value in that they gave position information that the particular rock is now expected.

### Additional Work Recommended

at the southern limit of T 4410 (1928) there is an overlap of about 0.3 mile with T 4423 (1928). The agreement is good in every respect except that two small islands in Lat 42-03.9 Long 124-18.6 and in Lat 42-03.7 Long 124-18.3 are both shown on T 4410 as 65 ft. high. The survey T 4423 (1928) shows these ~~same~~ islands to be 34 ft and 32 ft high respectively. It is recommended that this discrepancy be considered as matter for future field investigation of the less urgent nature.

Recommended: *Terence J. Jankowski*  
March 9, 1975



## DESCRIPTIVE REPORT

### TO ACCOMPANY

TOPOGRAPHIC SHEET NO. \_\_\_\_\_ SCALE 1:10,000

NORTH OF BROOKINGS OREGON.

LIMITS: This sheet includes the shore-line of Southern Oregon North of Brookings, between the latitudes  $42^{\circ} 03.6'$  and  $42^{\circ} 09.7'$  North. The sheet includes the outlying rocks and contours from original sheet were checked in the interior.

GENERAL DESCRIPTION: The shoreline on this sheet is for the most part very rugged. The headlands form rocky bluffs with small sand and gravel beaches between. There is a fairly wide sand beach at The Whales Head. There are many sheer bluffs and the coastline north of Whales Head is a continuous bluff rising a hundred feet or more out of the sea.

The interior is hilly and mountainous. The entire area is covered with brush and trees making traversing difficult. The Roosevelt Highway runs north close to the beach at the southern end of the sheet but for the greater extent several miles inland.

SURVEY METHODS: The triangulation stations, Harris, Ferrelo, Whale Head, White Rock, Twin Rock, and House Rock were used as control for this sheet.

Twenty four signals were built and located for hydrography namely; Dit, Hazy, Wow, Bul, Con, Swell, Toe, Tat, In, Cape, Fer, Lo, Oh, Spot, Flat, Long, Ng, bad, Squ, and Isle. Four signals built were

not used by the hydrographic party. Two signals, Nol and Cone Rock, were natural objects cut in and used as signals for hydrography.

A traverse was run from triangulation station Harris south along the beach to limit of the sheet and back to Harris along the road shown. This traverse checked. The shoreline was tied in to that on adjoining sheet to the south and they agreed.

A traverse was run from triangulation station Harris to triangulation station Ferrelo---during the progress of this traverse resections were made on triangulation stations White Rock and Twin Rock to check plane table positions. The traverse checked within the allowable error. During the progress of the traverse cuts were taken to prominent hills in the interior also rod readings were taken to closer points and their elevations determined so as to check the contours transferred to the sheet from the original bromide.

A traverse was run from triangulation station Ferrelo

north to triangulation station Whalehead and closed with a 12 meter error. Necessary adjustment was made and a traverse was run from triangulation station Whalehead back as far as signal Swell to check location of the offshore rocks. Resections were made on triangulation station House rock during the progress of the traverses between Ferrelo and Whalehead to check the plane table positions.

A traverse was run from Whalehead northwest to the top of the bluff near signal Nol at the northern limit of the sheet, from there south along the sheer top of the bluff to the white wash on point north of the sand beach then along the top of the ridge to triangulation station Whalehead again. The traverse checked and also checked by the party working on the adjoining sheet to the north run over the same circuit.

All outlying rocks were located by three or more cuts and positions checked during progress of traverse.

All elevations were computed using a hypsograph.

Party consisted of one officer and three men using a Chevrolet truck for a conveyance.

DISCREPANCIES AND CHANGES: A comparison was made between this sheet and a bromide of the original survey. In comparing the contouring of the ground with elevations taken and the contours transferred from the bromide the original work was found to be correct.

However there is a great difference in the shorelines and the positions of offshore rocks and Islands. There were large rocks found where none appeared on the bromide and there were many rocks on the bromide that could not be verified. The shapes and positions of the rocks that appear on both do not agree. THEREFORE this sheet is presented as a correct representation of this stretch of coastline showing the rocks and Islands correct as to position and shape as near as practicable

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The work on this sheet was executed by a party from the Str. Discoverer from October 1, to October 30, 1928, according to instructions dated March 13, 1928.

Magnetic declination scaled from sheet	20°	20.0'
Correction		5.9
Observed declination	20	25.9

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.

PLANE TABLE POSITIONS

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height Feet	Remarks
	o	'		o	'			
No1	42	09	1059	124	21	808	395	Cone shaped hill
Dit	42	09	894	124	21	1305	130	W.W on rocky point
Hazy	42	09	252	124	21	1202	92	W.W. on rocky bluff
W.W.	42	08	1235	124	21	832	240	W.W on sharp rocky point
Wow	42	08	793	124	21	309	100	White washed rock outcrop
Bul	42	08	398	124	21	108	32	White washed rock outcrop
Con	42	07	1501	124	21	33	88	White washed rock on slope
Swell	42	07	893	124	21	269	50	White wash on face of bluff
W.W.	42	07	415	124	21	412	180	White wash on rock ledge
Toe	42	07	128	124	21	498	198	W.W. pinnacle ledge
Cone Rock	42	06	1786	124	21	667	84	Cone shaped rock near shore
Tat	42	06	1690	124	21	516	140	White wash on rocky point
In	42	06	1114	124	21	106	52	White wash on rocky point
Cape	42	06	445	124	21	238	113	White wash on rock face
Fer	42	05	193	124	21	163	108	White washed sharp rock
Lo	42	05	1850	124	20	575	88	White washed rock on slope

PLANE TABLE POSITIONS

Object	Latitude		D.M. Meters	Longitude		D.P. Meters	Height Feet	Remarks
	o	'		o	'			
Oh	42	05	1332	124	20	785	37	White wash on cliff
Spot	42	05	739	124	20	288	80	Whit wash on rocky ledge
Flat	42	05	380	124	19	1232	38	White wash on cliff
Long	42	05	198	124	19	715	120	White washed pinnacle rock
Ng	42	04	1467	124	19	420	26	White wash on pile of rocks
Squ	42	04	309	124	18	1342	15	White wash on rock on beach
Bad	42	04	833	124	19	207	90	White wash on rock outcrop
Isle	42	03	1615	124	19	488	60	White wash on west side Prince I.

STATISTICS

Statute miles of shore-line -----	23.00
Statute miles of roads -----	1.49
Statute miles of shoreline -----	1.72
Square statute miles of topography -----	(8.00)

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. 4410

Goat Island to Whales Head, Oregon

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 and specific instructions. The old survey was checked against the new one, as instructed, and the new one should be used for chart compilation of shoreline and rock details, to the exclusion of the old work.

There are several details on T. 1260 whose omission on 4410 is not accounted for. The representation of rocks differs from that on T. 4401 on the north and T. 4423 on the south.

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

The field drafting is excellent.

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

Approved:

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Chief, Section of Field Records (Charts)

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

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

Chief, Division of Charts



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 CREGISTER NO. **4410**State OREGONGeneral locality ~~SOUTHERN OREGON~~ Cape FerreloLocality ~~NORTH OF BROOKINGS~~ Goat Island to Whales HeadScale 1:10,000 Date of survey OCT. 1 TO OCT. 30 1928Vessel STEAMER DISCOVERERChief of Party F. G. ENGLESurveyed by A. C. THORSONInked by A. C. T.Heights in feet above LOW to ground XXXXXXXXXXXX  
to tops of treesContour Approximate contour from line interval 20 feetInstructions dated MARCH 13, 1928

Remarks: