HARBOR, OREGON.

UNITED STATES ENGINEER OFFICE,

OBJECT OF EXAMINATION.

river; thence by wagons across the ersham to be as follows: Coast Range of mountains to New- Ninety-nine hundred feet, at Cape Foulweather, where they camped until the survey was completed. On Sept. 8th I visited Cape Foulweather and made a general examination of the locality.

DESCRIPTION OF THE HARBORS, the western coast of Oregon, in late ing a length of 4,900 feet; such a ude 44 degrees 43 minutes north, work would cost as follows: longitude 124 degrees 05 minutes hundred feet at seasons, but principally during the west, and forms a headland boldly jntices, and in the west, and forms a headland boldly jntices, and in the west of the seasons, but principally during the mediately opposite Rocky Point, a winter is not so frequent as in the into the sea from the low beach with high mountains in rear of it.

It is a mass of black basalt rising to a height of from 80 to 100 feet above the sea, the base honeycombed with caves formed by the action of the waves. The cape, by its position, forms bays on the north and south, the one fronting northwest and the other south and southwest. On the north theshore line is crescent shaped, the outer extremity pointing north,'a reef making out from it in a direction

ground for anchoring vessels, although I understand that no vessel

has ever entered.

main shore and the cape, and is protected on the east, north sad northwest. On the south and southwest it isopen and exposed to the terrible southern gales, from which it is most desired to find shelter. The bottom is sandy, the depth gradually increasing from near the shore, where it is 3 fathoms, to 20 fathoms 2 miles off shore. The general depth, on a line drawn south from the cape, is from 4 to 6 fathoms.

TIDES, FOGS, &C

THE HARBOR OF REFUGE. amount of grain and other produce structions. now finding its market via the Wil-

an outlet via the Yaquina Bay. which would form a fine harbor of

harder than the rest of the bottom coast dated February 14, 1877. from 12 to 30 feet under low water level situated in a curved line in the your obedient servant,

JOHN M. WILSON, ms of water between them. On

weather the sea breaks constantly. The chart transmitted herewith shows a breakwater projected on this line, starting from near Yaquina

Head and running west, then curving to the north, and terminating about a mile and a half from the cape. Such a harbor would present a large area A Commercial Necessity amply protected from southwest gales, and an approximate estimate of its with a depth of from 3 to 8 fathoms. * OFFICIAL REPORT OF

The cape proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a structions dated August 8, of the present proper already presents a struction present proper already presents a struction present proper already presents a struction present present proper already presents a struction present proper already present present proper already presents a struction present pres north and northwest. This breakwa-EXAMINATION OF CAPE FOULWEATHER ter would be about 9,900 feet long, and constructed upon the plan adopted by the board of engineers for the Pacific coast. It is described in their

GENERAL: I have the honor to report of Feb. 14, 1877, as follows: er with the report of Mr. R. A. Hab- of small stone; that is to say, of such nished by residents of the locality. ersham, assistant engineer, and to stone as any quarry will furnish, and submit the following report of an ex- while quarrying out this great mass feet up to low-water. Upon this foundation we propose to build a ma-The object of the examination and sonry wall faced with granite 25 feet

Total..... 11,462,487 00 It is highly probable that for present purposes a breakwater would be running on the line projected, termin-Cape Foulweather is situated on ating in 41 fathoms of water and hav-

gales from the south and southwest, about four fathoms under water, The difficulty to be contended with

north-northeast a distance of about north of the cape; no shrvey has every swell breaks constantly, and which is 12 feet above mean low-water mark. The influence of ordinary high tides 5,000 feet, terminating at a lone rock this law and as far as he could learn. It is seen that the cape forms two about 1,800 feet from the beach. The depths on this reef vary from 10 to depths on this reef vary from 10 to ed it. He reports that it is a natural other south and southwest. The rising and falling from 4 to 6 feet. 1;200 feet near the cape, where there is a channel of that width with a depth of from 30 to 40 feet. The lone rock referred to at the north end of the reef seems to be connected of the reef seems to be connected.

In the second of the second of the reef seems to be connected of the reef seems to be connected.

In the second of the second of the second of the second of the reef seems to be connected of the reef seems to be connected.

In the second of the second on the south and southwest by the cape; on the west by the cape; on the west by the long reef; and on the second of the reef seems to be connected.

It is small, and lies about 500 feet the residents of the country around that during southwest by the cape; on the west by the long reef; and on the second of the reef seems to be connected.

It is small, and lies about 500 feet the residents of the country around that areef from 3 to 5 fathoms; under water extends in a second of the second of the residents of the country around the residents of the residents of the country around the residents of the country around the residents of the residents of the country around the residents of the residents of the country around the residents of the residents with a depth of from 3 to 8 fathoms, my own observation, I think a better and a sandy bottom. As far as could be not be n be judged, there is good holding than south of it, by constructing a The south bay, so called, is ope

sham at \$656,251. shore already described.

This north harbor, with the 600- From Yaquina Head to the north The spring tides rise and fall about able in south and southwest gales; presents a slope of from 50 degrees them. On these, during low tides and 9 teet. Dense fogs overhang the cape but during heavy weather from the to 80 degrees, tolerably uniform in from time to time during the year, northwest vessels could anchor on direction generally, but much broken tly, suggesting the presence of a conparticularly during the month of the other side of the cape.

the interesting report of Assistant En- shows soft sandstone overlying at About 31 miles south of Cape gineer Habersham transmitted here greater or less depths a bed of marl Foulweather is Yaquina Bay, the with. In making the examination filled with fossil shells. Numerous 26 feet below low-tide level. mouth of Yaquina river. A railroad there were numerous minor difficul small veius of water trickle down is projected to connect this bay with ties to overcome, and Mr. Habersham the face of the sandstone, softening it the Willamette river. It is anticipat- deserves credit for the efficient man- and contributing to the destructive of engineers, Pacific coast, would be senate a long communication on the subject, ed that when this is completed a large ner in which he carried out my in action of the weather, while the marl

lamette and Columbia rivers will seek tion district of Southern Oregon. The The nearest port of entry is at New- cape four streams large enough to About three quarters of a mile off port, Ynquina Bay; no revenue wascol! furnish good water power, flowing the entrance to this bay a dangerous lected during the last fiscal year; there through small valleys more or less reef of rocks, extending in a north were no foreign imports or exports; heavily timbered, enter the ocean, and south direction, with many nare about 600 tons of assorted merchanrow and dangerous channels across dise are brought in annually by coast- tion, although luxuriant, is of small it, is reported by the Coast Survey. wise vessels which carry away lum- growth, and consists of salal, whorand laid down on their charts. I am ber and oysters; two sailing vessels tleberry, fern, and scattering spruce informed that the residents in the of about 100 tons burden each, with serubs. The beach is from 300 to vicinity presumed that a reef extend- a draught of 9 feet, are running be- 800 feet wide, generally sandy, but ed from Yaquina Head toward the tween San Francisco and Yaquina bay the frequent occurrence of rocks

thought, well defined, and that upon est works of defense are at the mouth the cape is of the same general character. The value of the commerce to be benefitted by this work would run up

each other from one-fourth to alf a mile and with from 6 to 8 Brig-Gen. A. A. Humphreys, Chief of Eng. U. S. A.

SHAM, ASSISTANT ENGINEER.

United States Engineer Office, COLONEL: I have the honor to submit the following report of a survey at Cape Foulweather, to ascertain its adaptability as a harbor of refuge," with a general plan of improvement, cost, made in pursuance of your in-

This work was performed between the 9th and 23d of the same month. To save repetition, I will here state that all depths given refer, unless otherwise specified, to the lowest of mean low tides, as nearly as could be transmit herewith a chart of Cape any breakwater up to the height of the Pacific coast published in San the Pacific coast, published in San Foulweather Harbor, Oregon, togeth- 15 feet below the level of low-water Francisco and from information fur-No extreme tides occurred during

the progress of the survey, not even amination and survey made under to lay away all large stones of 5, 10 at full moon, an unusual circumstance.

my direction in accordance with the or 20 tons for the construction of that CAPE FOULWEATHER AND

ITS VICINITY. survey of this harbor was "to ascer- wide and 20 feet high, including foun- the north side of the entrance to Ya- a sight of terror to the unfortunate by blocks of artificial stone (if nat- the to the east of north for 4 miles, to coast during the southwest gale. Early in Angust I organized a par- ural cannot be obtained) of large size the end of South Foulweather Beach; ty for this work and placed it in (20 or 30 tons each) and thoroughly thence westward for three fourths of charge of Mr. R. A. Habersham, as paving the harbor side with large a mile to the southwest elbow of the vailing winds are southerly. Some sistant engineer, with orders to pro- blocks of granite to receive without cape, where it begins to curve north- times strong west winds occur, changceed to Cape Foulweather and make displacement the water that will be ward and eastward until it reaches ing round to northwest, breaking the necessary surveys to carry out thrown over the wall ingreat storms." the extreme point of Cape Foul- into heavy squalls, accompanied by the necessary surveys to carry out the cost of such a breakwater is weather, which points north; thence rain, hail, thunder, and lightning. Corvallis, Oregon, via the Willamette estimated by Assistant Engineer Habsoutheast, curving round to east, to This is generally from February to the point where the cape joins the April. The gales which are princi- made of this bay, and, so far as I mainland again; thence north for pally dreaded by mariners come could learn, my boat was the first Coast Range of mountains to New-port, on Yaquina Bay, and thence to Contingencies, 10 per cent.......\$10,420,443 00 about 7 miles to a point known as Contingencies, 10 per cent.......\$10,420,443 00 Old Cape Foulweather.

proper describes the figure of a half hazel-nuts are caught up from the crescent, the curved tip pointing beach and dashed against the light emt purposes a breakwater would be sufficient starting from Yaquina Head, north. From this point a reef makes tower, a height of more than 100 feet. ont in a nearly direct line, course These gales reach a velocity of 60 north northeast, for 5,025 feet, terminating in a bare rock, which, for the shore is not visible from a disvertical cliff formed of rock of the Willamette Valley, but heavier; Such a breakwater would present merly a portion, as the soundings show light, and soon melts. an area of 200 acres protected from a well marked ridge connecting them

in using this harbor would be that is nearly flat on its crest, vary from light-house at Cape Foulweather. sailing vessels entering during a 10 to 30 feet from Round Rock to southwest gale would be obliged in within 1,200 feet of the cape, where rounding the outer end to face the a depression occurs which shows from Assistant Engineer Habersham deepest. The north side of this gap feet. During strong west winds the made a careful examination of the bay is marked by a rock on which the high tides have reached a height of north of the cape; no survey has ev- swell breaks constantly, and which is 12 feet above mean low-water mark.

The south bay, so called, is open to breakwater running in a northwest the south and west. It is bounded that a survey was requested by those direction just inside the reef running on the north by the cape and on the interested, among whom may be in This south bay is formed by the out from the cape; such a breakwater east by the mainland. The bottom cluded all of the people of that secwould be about 600 feet long and is sandy, sloping seaward, the depth tion of Oregon whose nearest outlet would contain within it an available increasing uniformly from near the to the ocean lies through the valley anchorage of from 50 to 100 acres beach, where it is 18 feet, to 20 fath. of the Yaquina River. . The chart of Uncle Sam, lost a mile north of the with a depth of from 3 to 8 fathoms. oms at a distance of 2 miles from the the United States Coast Survey in The plan for such a work would be shore. The general depth on a line this locality and my soundings over similar to that already described, and drawp south from the cape is from 4 the same ground show that no such the cost is estimated by Mr. Haber- to 6 fathoms. It is rather a road- reef exists. There are 4 knobs of stead than a bay; and while it is easy sandstone, harder than the rest of the The harbor could be greatly in- of access from the ocean in any dicreased in size by constructing a rection, is sheltered only from north water level, situated in a curved line breakwater on the reef parallel to the and east winds, which are never vio- in the direction above indicated, but lent.

> by sharp points and by ravines and Attention is respectfully invited to small valleys. The face of the cliff underneath is also wearing away Cape Foulweather is in the collec- under the heavy blows of the surf.

Between Yaquina Head and the cape, and inclosed an area of about There is a first order light house on above the surface show that the sand-1,000 acres, the ridge being, they the cape, visible 19 miles. The near-

Cape Eoulweather is a promontory, covered with a thick carpet of grass the prevalence of heavy seas, the As far as I could learn, the object of this survey was to locate a break-water upon this supposed reef for a benefitted by this work would run up and fern, making out from the continent, its crest line running from east needs of the survey was to locate a break-water upon this supposed reef for a prevalence of neavy seas, the prevalen harbor of refuge.

The chart of the United States
Coat survey shows no such reef, and the very careful examination of Assistant Engineer Habersham reports four knobs of rock apparently much such as the coat of the United States of the State The chart of the United States For the necessity for a harbor of conical summits respectively 400 and conical summits respectively 400 and proach the quarries with safety. lighthouse stands. The neck where ter from southwest gales. Some I am, General, very respectfully, the promontory joins the continent is such protection is absolutely required. 2,300 feet across between low water But a better harbor, at much less cost, would say in court if she were asked lines and about 200 feet above sea would be secured by building a break-her age. The blunt jurist replied, level at its highest point. The prom-ontory is a mass of dense, hard, black Foulweather northward, inside of the

these during low tide and heavy REPORT OF MR. ROBERT A. HABER forced like a wed ge into a cleft in the of 600 feet. This would inclose an sandstone. It rises vertically from area of about 100 acres, under the the sea to a height of from 80 to 150 lee of the cape, with good anchorage Portland, Or., Sept. 16, 1878. feet, in many places, overhanging the in from 4 to 8 fathoms of water, havwater; its face hollowed out into cav- ing a free entrance from the west erns and seamed with fissures, with 1,200 feet wide. Such a harbor would the sharp projections of fantastic satisfy the present necessities, not shape; the whole crumbling away only as a refuge but also as a port of slowly from the effects of the winter entry, Yaquina Bay being accessifrosts and rains. The base of the ble only to light-draught coasting cliff is honey-combed with caves, vessels; and it might be enlarged at some of which naight well be called any future time, if desired, by ex tunnels, as they extend a long distending the breakwater along the reef. tance into the rock. One is said to The cost per linear foot of a break penetrate 80 feet in a direct line from water here, on the plan recommended he face. It was not possible to would be as nearly as can be esti verify this state nent by measurement, mated from the data obtained, as as the surf was washing in and out follows, its dimensions being: Length of the cave with great force, but it is 600 feet, average depth below low probably not far from the truth. The tide 31 feet. west end of the cape is surrounded Ashlar masonry..... by a number of pinnacles of rock rising vertically to a height of from 40 Small rough rubble, 110 cubic to 80 feet out of the water. Seen from a boat at a short distance, this black, jagged mass towering into the air, with the surf lashing its base act of Congress, approved June 18, portion of the breakwater from 15 TOPOGRAPHY AND HYDROGRAPHY AT with a noise like thunder, the scene excels in grandeur the sight of Devil's Canyon and Cape Horn, on the Cen-From Yaquina Head, which marks tral Pacific Railroad; but it must be tain its adaptability as a harbor of dation, protecting the seaward side quina river, the shore line runs a lit- mariner who should see it as a lee

> From November to April the pre times so strong that a man cannot The shore line of Cape Foulweather keep his feet, and pebbles as large as

For the information contained in The depths on this long reef, which tain S. P. Wass, custodian of the

The spring tides, with the ocean in 30 to 40 feet; the center being the its normal condition, rise and fall 9 this bay, and as far as he could learn It is seen that the cape forms two extends to Pioneer, 30 miles above that I am aware of was lost, with all

with a rocky point opposite on shore by a well-marked reef, upon which problem of years between Sen Eran. number of years between San Fran- nearly one mile in length and one- ward Cape Foulweather, terminating anchorage, existed about ten miles there is a depth of four fathoms. Industry one must be south of succession and Puget Sound, and claimed third of a mile across, the width about one and a half miles south of north of the cape, and wishing to get The north bay is inclosed, therefore, on the east by the mainland, on the south by the cape, and on the west by the long reef. It is nearly a mile long, and about 1,700 feet wide between the three-fathom curve and being made under between the three-fathom curve and being made under being measured from the curve of 18 third of a mile across, the width being measured from the curve of 18 the cape, inclosing a basin having a smooth, sandy bottom, which covers an area of nearly 1,000 acres, and the entrance, vessels could now enter contains about 200 acres. The bottom is sandy, generally smooth, and claimed the cape, and wishing to get the cape, inclosing a basin having a smooth, sandy bottom, which covers an area of nearly 1,000 acres, and two members of my party being familiar with the spot. I found it to be an indentation in the rocky coast, the reef. It contains about 200 acres, with a depth of from 3 to 8 fethoms.

It was for the purpose of ascertaining the feasibility of this project bottom, from 12 to 30 feet under lowdistant from each other from onefourth to one-half a mile, and with feet breakwater, would only be avail- end of Foulweather Beach the shore from 36 to 50 feet of water between heavy swells, the sea breaks constantinnous reef.

The length of breakwater which this project contemplates would be 9,900 feet, with an average depth of well as of construction. The National

Its cost per linear foot, on the general plan recommended by the board 13th inst. Secretary McCrary sent to the as follows:

cubic yards, at \$3..... Large rough rubble, 59.25 cubic yards, at \$5.... Per linear foot..... 1.052 57

Nine thousand linear feet, at \$1,052.57......Add for contingencies 10 10,420,443 00 per cent..... 1,042,044 30

The estimate for rough rubble may appear excessive, but the stone would have to be brought from Cape Foulweather, the nearest point where hard rock is found, and where, owing to the prevalence of heavy seas, the loading of barges would be expensively before the survey could be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed in ten or fifteen years at a cost not exceeding \$2,000,000. In reply to this, Superintendent Patterson sent a letter to congress insisting that there would be expensively before the survey could be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed, while by the plan now carried on by the War Department, which is geodetic as well as topographic, the survey of the whole interior region would be completed in ten or fifteen whole interior region would be completed in ten or fifteen whole interior region would be completed.

yards, at \$2.... Large rough ruble, 59.25 cubic yards, at \$4...

Per linear foot..... Making for its length of 600 feet, 596,592 00 Add for contingences 10 per cent, 59,659 20

Total 656,251 20 Here the stone could be obtained from the shore end of the wall and hauled in cars along the top, extending the track as the work progressed, making the cost of transportationless than in the south bay. The above estimates are in gold coin.

The hydrographic work of the Coast Survey in this vicinity terminates at the extremity of Cape Foulweather. No survey had ever been that had ever-entered it. It is a natural harbor of considerable extent, even without improvement. I am in formed that during southwest gales the whole of the area inside of the reef is comparatively 'smooth, and the southeast portion quite so. Several of the seamen employed as boatmen on this survey, who had sailed for a convenience, I have called Round tance of 500 feet out at sea occur at number of years between San Francisco and Puget Sound, and claimed to be familiar with the coast and its climate, said that if two buoys were placed to mark the entrance, and the fact published for the information of marmers, vessels of any draught could enter here, not only for shelter, but for purposes of commerce. If this opinion be correct-and there seems to be no reason to the contrary -the circumstance is of interest in connection with the fact that a narrow gauge railway is now under construction from Corvallis, on the Wil-

lamette to Yaquina Bay. Last winter there were a number of vessels in distress off Cape Foul weather at different times, and one omitted to mention that there is a

parallel to the general direction of the coast line with from 6 to 10 fathoms depth, well sheltered from north wind, but open to the west and south west. This place is called Wrecker's Cove, the name having been given by men who saved, or rather, collected, some fragments of the schooner cove about two years since. Respectfully submitted.

ROBERT A. HABERSHAM, Assistant Engineer. COLONEL JOHN M. WILSON, Major Corps of Engineers, U. S. A.

COAST SURVEYS.

The following paragraph is taken from a

recent number of the San Francisco Chronicle: For some time past there has been a controversy going on between General Hum-phreys, Chief of Engineers, United States Army, and Superintendent Patterson, of the United States Survey Department, the point being whether the military engineers should have control of the coast survey as Academy of Science proposed to consolidate all the government surveys of the west and place them under the coast survey. On the stating that "Since a thorough survey of the west, of any kind, will involve million \$410 60 of dollars, and since the plan proposed by the National Academy, if adopted, will prevent the supplying of the war department with the maps which are requisite for the economic administration, and for the use of its officers in the field, I would invite special consideration of the Senate to the commu nication of the Chief of Engineers, with the recommendation that the appropriation for military surveys shall remain as before." The position taken by General Humphreys is that the Academy of Science exceeded its authority in making the recommendation for the consolidation of all the survey. As to the cost of the plan proposed he says that scores of years would elapse and hundreds of millions of dollars have to be expended before the survey could be completed, while

A lady asked the judge what she basalt, which seems to have been reef above described, for a distance to the years of discretion.

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