Astorian. Dailm

Vol. xvIII.

Astoria, Oregon, Wednesday Morning, January 3, 1883.

No. 81.

COLUMBIA BAR IMPROVE-Lieut -Colonel Mendell's Minority Report

unstable positions, introduce ob- 27 feet. stacles of so serious a nature that elples at the Columbia river.

An application of principles cation to become practicable at the its level in 1868. Columbia.

hundred thousand cubic feet of years. water per second.

comes one of delicacy and diffi- that of 1792. communication with the shore and practicable. exposed to waves which disturb increased. This combination of objects sought. circumstances affects the constructor. This condition attained gives It may, however, he claimed erable degree of uncertainty.

The changes in phases of the coast, do yet occur within periods about parallel to the crest. shorter than that required to com- This line is now assumed to con- secured. The conditions under would not only forbid its further promoting cheapness. prosecution, but involve the loss But for this consideration the possible by the spit to the southof a part already advanced to line would be better located near ward; it is accessible, it presents completion.

These considerations seem to be entitled to govern in a great degree the protection of a work at the mouth of the Columbia river. They suggest that the formidable difficulties to be met in deep water should be avoided until a plain necessity compels us to encounter them. Such a necessity can hardly be said to be demonstrated until all the advantages that can be realized from the occupation of Clatsop spit shall be developed and found to be insufficient to effect the desired result. The advantages cannot be developed until the spit is occupied by a work raised to a higher level than that of low tide.

The points here sketched, namely, the extension of the jetty to those in which I am not able to agree with the board.

These remarks lead to inquiry as to the extent and character of not be exposed to the great contingencies of cost and disaster, been mentioned.

island in dividing the waters of the at some additional cost. for the sea leaves the river in a high, which is 4 feet above low stable. Beds of this character and Humphrey's Specifics also kept.

UNITED STATES ENGINEER OFFICE. Years. The injurious influence, 275,000 cubic yards.

bey may be said to place limits which seemed to be entitled to and are thought to dispense with best theriver ever had, would sever tions upon the application of prin- the credit of this great result was unusual sizes, and this, together to indicate that the flowing applied successful at the Damebe or the three feet above low water. It per yard reasonable, and not like- much enlarged by the despending Mississippi, where these obstacles now lies four or five feet below ly to be exceeded. The estimate on the shoals, it is not elamied that do not exist, may require modifi- low water, six or eight feet below is believed to be full.

A work extended seaward from magnify this condition of Clatsop 5 feet, and adding the height of discharges its 3,000,000 cubic feet Point Adams to a point two or spit by work which shall present the work, 4 feet, it will be seen of average tide per second through three miles south of Cape Disap- no unusual difficulties of constructhat the sectional area of the an entrance of barely t mile in Tooth, Ear and Headache, Frosted pointment must cross a deep chan-tion, which shall be subjected to a waste-weir, through which the width. nel of the river over a mile in minimum exposure, one which is obb tide now escapes, and which Analogy indicates that an opinwidth, with an unstable bed, which practicable at a moderate cost, and will be closed by the proposed ing of 3 miles is sufficient to permit at times in each day carries several capable of being built in three work, is 126,000 square feet, being the entrance of 100,00,000 feet into

It may be remarked that it is not feet average depth. An encroachment upon the sec- to be expected that the restoration The mid-tide cross-section of appears to be to concentrate the tional area of a channel of this of Chatsop spit will reproduce the the river between Point Adams ebb to get its maximum effect. character, in which water moves channel in the position of 1868 and Chinook Point is 500,000 If this be successfully done, the with considerable velocities, is The direction of Clatsop spit and square feet. Through this section flood may be trusted to do its part. likely to develop an equal com- the unity of the river point to the the whole ebb, estimated at an pensation by scouring the bed, so development of a channel well to average of 1,000,000 cubic feet obedient servant, that the operation of closing be- the north, approaching in position per second, passes.

be occupied and stored with ms- the position of 1868, it would be section at Point Adams. terial in the most convenient posi- necessary to build works other The quantity of water thus to

tion of such a work with a considsults.

river entrance, while not so sud- a work which shall fulfill these ticable at a moderate cost, and den as those which affect the bars conditions appears to be a line on further, that the history of the river of smaller harbors on the sandy the north side of Clatsop spit and justifies hope that a great improve-

pince a work such as has been al- form to the 8-foot contour of which 4 fathoms and more existed luded to. It is therefore quite pos- depth, in the expectation that this in the past do not seem to me so sible that such a work might be depth will afford a fair degree of favorable for good depth as those overtaken during its construction accessibility, on the flood-tide, to that will be established by this by one of these changes which vessels discharging stone, thereby work.

8 feet, will be reduced.

jected on the latest map, is 14,- a material increasement. of the spit, 3 miles distance from may be used with advantage. the cape, and about 2 miles to the asstward and one-half mile north-might at some subsequent time be ward of the end of the work pro- a question whether it ought or jected by the board.

The object to be secured by high water level. this work, which is merely the deep water, and its height, are advantages of the position. This feet higher, line is to be occupied by a work It would seem as tending still of the Blood, wrapped around each bottle post to be occupied by a work It would seem as tending still of the Blood, wrapped around each bottle post to be occupied by a work It would seem as tending still of the Blood, wrapped around each bottle

respect been the case for many spectively, its contents become. The construction of a work of

required. The same circumstances tide was impeded. Classop spit, which, for more than with the accessibility of the line to all the water that was personal two miles in length, stood two or barges, makes the estimate of \$4 Now that the river section is

Assuming the average depth at than it did in 1868. a channel 14,000 feet long and 9 the Columbia.

culty, even when both banks can If it were desired to re-establish therefore one-fourth of the river

tions. Where the channel is sev- than here proposed, if indeed the be diverted into the main river eral miles from shore, with limited project could be considered to be channel is hardly a matter of calculation under the present circum-To concentrate the river within stances of our knowledge, nor can the bottom to considerable depth, moderate width, and to discharge its effect on the improvement of the obstacles to success are much it as a unit to the sea, are the the bar channels be accurately demonstrated.

centration of the river in as great a The most favorable position for degree as now appears to be pracment in depth will thereby be

The line is sheltered as far as the crest of the spit. It is possi- no unusual difficulties, its cost is ble that a depth less than 8 feet moderate, it can be built in three Royal Baking Powners Co., tos may be found sufficient. If this years, it is in a position to receive be the case, the estimate of cost aid from the action of the food herein given, based on a depth of tide and waves which transport sand over Clatsop spit, and lastly, its con-The line, as near as can be pro- struction must enforce the river by

000 feet in length. It starts from The estimate is based upon the the westerly side of Point Adams, use of stone, but wood in matand ends at a point near the end resses and perhaps in other forms

ward of the end of the work pro a question whether it ought or ought not to be raised above the

If, as anticipated, Clatsop spit practical elevation of Clatsop spit, shall form to the height of the permits enough latitude in its lo- work, it would be comparatively cation to take in all the natural inexpensive to raise the line 4 or 5

built to the level of mid-tide, more towards unity in the river, being raised along its whole that further elevation in the line length to low water, before any would be beneficial. It has been improvement possible, which shall large portion of it is built higher. suggested that the elevation of a The line projected by the board jetty to mid-tide level may occupied in the same way over the interfere with the entrance of the threatening a structure such as has portion of its length lying on flood tide. This might be the Clatson Spit, would be product- case if the bottom were unvield-The decaying influence of Sand live of the same or similar results, ing. The history of the river and common observations show the river at its point of departure | Projecting this work as 12 feet | bed of the entrance to be very un-

more favorable condition for works water, 20 feet wide on top, and assaily adapt themselves with of improvement than has in this with slopes of 1 and 3 base re- great facility to changes of width.

the kind proposed is gradual. It now at large, is constantly dimin- Placing stone at \$4 per cubic makes, day by day, no vident GENERAL: A difference of opin- ishing. The river may soon be a yard, the estimate becomes \$1,- changes in sections. The obbion on some important points re- unit between Point Adams 100,000; adding 25 per cent. for tide has plenty of time to adapt lating to the improvement of the and Sand island. In 1868 the contingencies, it is \$1,375,000. itself to new conditions. In con-Columbia river entrance leads me river was divided by the island. By the circumstances of its loca- firmation of these tempels it may to express my views separately. into two large and not very un- tion, under the shelter of the crest he said that in 1868, when Clatsop The peculiar circumstances of count parts. One of these fract of the spit lying to the southward, spit was above low water and the heavy sea waves, strong and after- tions maintained for itself for some the dimensions asumed are thought middle sands and Peacock spit nating currents, and the preva- years a channel over the bar two to be entirely reasonable, and per- were shoaler than now, it was not lence of sand in the vicinity, in miles wide, with depths of 25 to haps in excess of those that will be found that the ingress of the 25od The controlling natural feature permit the use of small materials the channel then existing was the

the flood tide supplies more water

It is practicable to restore and low water over Clatsop spit to be San Francisco harbor enters and

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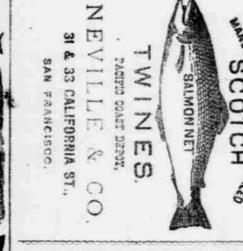
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