## THE WEST SHORE.

## July, 1883.

side with the excavated material was unsuccessful. Notwithstanding the large size of the pieces blasted out, they were removed by the waves in very short order. By the exertion of much effort and skill the large derrick was landed and set in place, the mast being forty-five feet high and the boom seventy-five feet long. Another large derrick, four small ones, and a large engine for operating them, were also landed. The material used in constructing the works was 5,914 cubic feet of first-class ashlar stone, 2,880 of secondclass ashlar, 96,664 brick, and 2,635 cubic feet of sand. These were all prepared and shipped ready for use, and landed from the deck of the vessel by the large derrick.

It is unnecessary to follow step by step the construction of this important station, nor to give in detail the thousand obstacles that presented themselves and were overcome by patience and yet been announced. skill. Enough has been told to give all that was intended, an idea of the expense, danger and difficulties attending the light house system. The work was completed and the light first exhibited January 21, 1881, and the machinery was placed in the fog signals three weeks later. Supplies are now landed by means of the derrick, as shown in the engraving, and a safe anchorage will soon be made near enough to the rock for convenient working of the derrick and far enough from it to escape danger from the swell. Considering the increasing commerce of the Columbia river and the northwestern coast, the light house at Tillamook may be reckoned as one of the most important stations ever established; and by giving it telegraphic connection with Astoria its usefulness may be vastly increased, as then vessels arriving outside can be informed of the condition of the bar, while owners and tug boats inside can be notified of their arrival and if necessary go to their assistance without delay. .

## STEAMBOAT PASS.

Puget sound, with its long branching arms, its islands, capes, bays and wooded hills, its background of timber-clad mountains, and snowcrowned peaks, is one of the most beautiful bodies of water in the world. It is one immense harbor where all the ships of the world can anchor in safety and not obstruct the channel. So deep is it and so abruptly do the shores rise from the water, that in many places there is no anchorage near the bank. Steamers wind in and out of the long projecting rocks, now disappearing around some jutting headland or verdant island, now in the broad open hay and then darting through some narrow, rocky channel just wide enough to admit of their passage, constantly revealing new beauties to the traveler at every turn, and making his voyage a succession of lovely pictures. The Steamboat pass, of which we give an engraving, is a narrow channel between the rocks and islands near the foot of the sound, and is used by steamers and small vessels as a "cut off" from the regular route. The water is deep and to a vessel pro-pelled by steam and guided by a skillful hand the pelled by steam and guided by a skillful hand the passage presents no dangers. As the boat ap-proaches, it seems as though it was being run full tilt upon the rocks, and the stranger, unaware of the passage, sees nothing but wreck and disaster before him. Suddenly a little opening appears, and into this the vessel glides, following a narrow channel well known to the pilot until it agains nasses out into deep water on the other side. passes out into deep water on the other side. This is but one of the many incidents that make a journey on that inland sea so full of interest to the traveler.

## TRANSPORTATION.

The Pacific Coast Steamship Co. has chartered the Mexico and placed her on the route from San Francisco to Puget sound, to accommodate the increasing traffic.

The Bellingham Bay & British Columbia R. R. Co. has been incorporated with a capital stock of \$1,000,000, to build a line from Whatcom to a point on the Canadian Pacific about thirty-six miles east of Burrard inlet.

road is now being surveyed from Oroville, California, passing through Butte, Plumas, Lassen and Modoc counties to Goose lake. Its route will no doubt be utilized by some of the lines beyond that place and its objective point have not

The Southern Oregon Improvement Co, has elected W. H. Besse, of New Bedtord, Mass., president; Jonathan Burne, Jr., of Portland, vice president : William Roach, of Boston, treasurer ; Cecil Holcomb, secretary. Work on the railroad from Roseburg to Coos bay will be commenced immediately.

On the extension of the Oregon and California the Grave creek tunnel has been completed. It is 2,110 feet in length. The long tunnel at Cow creek, this side of the other one, will be finished in a few weeks, and then track-laying can be people of Colfax donate to the company the right pushed on to Rogue river valley without interruption. Work on the great tunnel through the of land adjoining the city on the north, for depot, Siskiyou mountain has been commenced in side tracks, shops, etc. The citizens of Moscow earnest.

Work on the connecting link between Portland and Kalama is progressing rapidly. An incline to that city by the first of January if possible. has been constructed from the road to the river at Contracts have been let for the material required Columbia City, up which two locomotives have for the large grain elevator to be erected in Mosbeen taken to the track, and track-laying has been commenced at that point. It is the expectation to have the road completed in time for Mr. Villard's through train, the first week in September. Coffin rock, seven miles below Kalama, is the point finally chosen for crossing the Columbia. The transfer will be made on barges for a few months, until the mammoth ferry boat is put together by the contractors.

There were entered and cleared in the district of Paget sound, at the custom house in Port Townsend, during the fiscal year ending June 30, 1883, a total of 1,314 vessels, aggregating 813,962 tonnage Of these 288 sailed coastwise, and 1,026, with a tonnage of \$43,815, entered and cleared foreign. This is exceeded by only three ports in the United States and shows at what rate commerce of the northwestern coast is developing. Lumber and coal are the staple articles of export, but there will no doubt be a large increase in the wheat shipments during the next few years.

Lewiston, a distance of 187 miles. The maximum Seattle,

grade is less then twenty feet, while the average grade for the whole distance is but seven feet. The engineer estimates the cost at \$2,805,000 or \$15,000 per mile. What all this surveying will result in is a mystery to the unitiated.

Captain H. H. Pierce and Lieutenant Rodman started from Vancouver early in July with a detachment of the 21st Infantry, to explore a new pass through the Cascades cast of Bellingham bay. The pass was partially explored by Captain Pierce last summer, and the guide who now accompanies the party asserts that he will conduct An extension of the California Northern rail- them through a pass far superior for railroad purposes to the Snoqualmie, Stampede, Nachess, or any other yet found. If such a route exists it seeking an outlet on Poget sound, and the Whatcom country will then realize the fruition of its dearest hopes. Captain Pierce, who had been in ill-health for some time, died in the mountains a few days ago, and the exploration is now being continued under the direction of Lieutenant Rodman.

> Colfax and Moscow are jubilant over their railroad prospects. The former city has been selected as the point of junction of the Moscow branch of the Palouse road, the line to run up the South Palouse instead of diverging on Rebel flat as at first surveyed. For this consideration the of way from that place to Poliman and 240 acres have donated 470 acres of land, 96 town lots and the right of way to Pullman, for which they have received assurances that the road will be extended cow this fall.

Though no large ship yard exists at Seattle, here is considerable activity displayed there in building the smaller cran that ply upon the waters of the sound and along the coast. The Aatte Vanzandi, a stern wheel steamer 112 feet long, was recently launched from T. W. Lake's yard, and will probably be placed on the route between Senttle and Whatcom. Another steamer, the Bob' Irving, 85 feet long, is being constructed in the same yard, to ply on the Nooksack and other rivers emptying into the sound. J. F. T. Mitshell's yard has just turned out the little tug boat Tillie, afty feet long. The J. C. Brittain, the hull of which was built a year ago at an expense of \$5,000, will be completed at once. She is 130 feet long, twenty-six feet beam, and will be a first-class passenger and freight boat. As to the prospects for ship building, Mr. Lake says, if he had a company with a capital of \$100,000 to back him, he could build vessels of any description, The Oregon Short Line is making satisfactory either iron or wood, for service on the rivers of progress westward. Passenger trains have been the sound or at sea, and build them so well and running to Little Canyon creek, fifty-two miles for so little money that Seattle would soon comwest of Shoshone, for several weeks, and by the pete successfully with the greatest ship building tirst of August will be running to Rattleinake ports in the world. There is a great demand for creek. It is now the expectation to reach the ship and boat building there, but he is without the point of junction on Burnt river some time in capital for constructing the larger classes of December. The survey down the Snake has wooden and sea-going vessels. There is a great been completed from the mouth of Burnt river to demand for first-class ship carpenters and builders