on. gentleman has been in reanadian Pacific ne information I read it to the is not possible upon a question g the House to en, in determinbefore these of the Selkirks loient length of ne in observing ged into that e for which the ulties had been t in that part of r. Moberly, an

ll the way across

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the Columbia on west slope of the self 14 or 15 miles seif 14 or 15 miles as on foot, and that unable to ride that of avalanches, and ere solid packs of r's men, under the cleaning the Tote Un February Sth, had occurred siz man named Robert the camp. On the the camp. On the est of the summit, were baried all'e, was known to be rred the French-seen overwheimed ently seen all'e. cre Bill's store was. Luckliy only the debeing that only scapieg through the day and a half to rot a horse from the bek, a distance of 28 was free from the prkmen on the road on the west slope were baried alive, on the west slope hey evidently had f they went in they the mountains, in beyond the second of it. In the Gold ad Wright's teams

arch 12th, 1885,

et the Greek was . The workmen on refeaing to work on wages, the demand chiefly on the west fold Range. Some, Belkirks, in one of applies awept away , however, the loss

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mounting finally to about \$10,000. Hill's store at the summit of the Belkirks was also awept away. West of the summit the road is blocked with the snow, the sildes occurring nearly every day. Wright, the con-tractor, whose men are working on the east slope of the Gold Kange, a now getting his supplies from Beaver Creek, the road to Kamloops being completely blocked. So far there are els men known to have perimed in these sildes, but there are others whose names have not been ascertained, who also got buried in them. There was a rumor sumong the men that the line of route was being slightly changed on account of the dangers from avalanches. Instead of seeking the centre of the passes the road was being ted along the mountain side, the rock being scooped out to afford more shelter to the passing trains."

ondition of things. I should have been glad if the hon. conternant had given us an authentic statement from the miles about as near as I can make out, of levels. Now with oports of the Government's and the company's engi- reference to curves. On the Yellow Head line, on the line cers and from the contractors, of what the state of hings is. I think it was his duty to have done so. I hink that Parliament has a right to be informed as to the esults of the operations, as to what the results has been with reference to the climatic difficulties on the route which was chosen without those precautions and explordions, which should have been insisted on before the Government allowed themselves to be committed to it at the solicitation of the company. In the same connection I may advert to the circumstances that we now and in the papers on the Table an estimate for a further large sum of money for snowsheds, not merely on the Sir, there are no less than 103 10-degree curves, 37 north shore of Lake Superior, but the largest part in the 9-degree curves, and 76 8-degree curves and under Pacific region. Now this was either considered as an essenal for this road originally or it was not. If it was con- actor. And this does not include all, because there are adored as an essential originally and was included in the several very sharp curves on the line beyond the 119 estimates of last year, it is embraced in the money that is miles. The investigation which I have made did not voted to finish the road; but, if it was not considered a ecessity then, it has become a necessity on account these subsequent developments, and, therefore, you have ditional proof from the company itself that there have een developments of a serious character with reference to the climatic difficulties in passing this way—how serious, what the drawbacks may be, what the difficulties may be, rising therefrom, it is of course impossible for me to tell. I have endeavored, before reading in this House what is ptorious to the public through the medium of the newsapers, to obtain authentic information from hon. gentle-en opposite, and having so endeavored in vain, I have rought the subject once again before the House in the hope that we may even yet obtain that information to which we are entitled. Then passing the climatic question, which a very serious difficulty, we come to the question of grades and curves. As I have said, it is not only a question of milagre with reference to and it is not only a question mileage with reference to a railway, it is a question of gradients and a question of curves. In the debate which took place last year, when the hon. member for Richmond and Wolfe (Mr. Ives) undertook the duty of sustaining, after I had spoken, the position of the Government, he, in a nou in the report of the Debates, that the utmost care had advice of the engineer, to recommend the location been taken to give easy grades and easy curves to the Can- of the Canadian Pacific Railway through the prairies dian Pacific Railway. Now, by the Yellow Head, the max- of the North-West, beyond a particular point on these grades there of 52-80 were all concentrated within 30 miles and the longest stiff grade was but $3\frac{1}{2}$ miles. That is the condition of the Yellow HeadPass. By the Kicking Horse Pass there are over 52 miles of 116 fect or 117 feet; there are over 52 miles of that grade, more than double the maximum of the Yellow Head Pass grade, and more than three times the ileage of that grade. Contrasting these things you have got a one case 6 miles of a grade of 52.80, and you have got in other 52 miles of a grade of 116 or 117. This is altother apart from the temporary line, which temporary e is to be the permanent line for several years to come, to carry this immense traffic which is expected to go the Kicking Horse, the Acting Minister of Railways did or the line from China to Europe, and back from authorise the location of the line to a point which was run-8в

Europe to China. On that line the grades are $4\frac{1}{2}$ to the 100, or 237 to the mile. The grades are so steep that already serious accidents have occurred. In one case a construction train ran away and a large number of men were injured, and there are in the course of the grade two of what are called switch backs, arrangements by which, if you find the train is overpowering you, you can run it off the main track and run it up a little hill so as to stop it. That is the kind of track over which the traffic on the Canadian Pacific Railway is to be carried on for some years to come - 237 feet Now, Sir, that is the statement of the newspapers as to the to the mile, protected by switch backs. Taking the 119 miles west from the summit of the Rockies, there are only 111 of my hon. friend from East York, there was but one curve of 8 degrees, and there were several of 7 degrees, and those curves of 7 degrees were on levels, or very low grades, and I need hardly tell the House that that is a very important consideration, that the combination of a steep grade and a sharp curve intensifies the difficulty, and that therefore it is customary, wherever practicable, to compensate for the curvature by the grade. But, as I say, on the Yellow Head Pass, the maximum curve was one of 8 degrees, and there were scoreal of 7 degrees. Now, what is the case in the 119 miles west of the summit of the located line? Why, Sir, there are no less than 103 10-degree curves, 37 9 degrees, making 216 curves of that very severe charenable me to go through the whole of the line, and therefore I took this particular section of 119 miles, and from the imperfact information before us I gleaned such facts as I could. Now, Sir, the total number of curves on that 119 miles is 691. On one mile there is about 2,000 feet of tangent, as near as I can make out; on another of 1,500 feet; on several more about 2,000 feet. In one place, in about 2,200 feet of line, there are five curves, thus: 10 degree right; 10 degree left; 8 degree right; 8 degree left; and 6 degree right. They take as many and as left; and 6 degree right. They take as many and as sharp turns as this Administration does. In 12 con-secative miles there are 123 curves, 18 of 10 degrees, 9 of 9 degrees, 19 of 8 degrees, 15 of 7 degrees and under 8, 2 of 6 and under 7, or 63 curves over the minimum curve of the Union Pacific; and these are on grades which average about 116 feet. That is the condition of things. I say that the hon. gentle-man authorised this location; authorised a location by way of Kicking Horze Dess hefter a hefter of the man and of Kicking Horse Pass, before he had before him plans and profiles, showing that there was a practicable road within the conditions of the contract, by the Kicking Horso Pass. They had realised that duty of theirs at an early stago. I can which is a common point for both routes, the route by the Yellow Head and by Kicking Horse, I will not anthorise the location until you show me a line within the contract by the Kicking Horse. That was his determination, and I have mentioned. I can show subsequent Orders in Council passed under the rule of the Acting Minister of Railways in which, with the former Order in Council staring him in the face, and without information that there would be a practicable line within the contract by