Hiver tugs were in waiting, and in townf the jevening, beinging will him the new martielt three turs the whole of the expedition at the Angle moved down Rainy River at 11 p.m. After running twenty five miles we camped for the of the lungs.

November 9th.—Started at 7 a m, Run the Maniton and Long Rapids, but at the letter oning to low water, the men merched along the shore for a distance of 2miles, leav-

but were compelled to camp at the mouth of the river, owing to a heavy storm on the like. At 6 p m, we attempted to cross the traverse, but were unsuccessful, and had to run to an island to remain there over-

November 11th. This morning the bosts were ordered to set sail independent of the tuge, the wind being invorable. after starting we were glad-to meet Lieut.-Colonel Smith, who was on his way to meet us. The majority of the boats sailed to within 15 miles of the North West Angle. and the remainder were towed by the tugs. Camped there for the night on an island. From thense as far as' the eye could reach in the direction of the Angle was one sheet of ice.

November 12th .- A storm last night fortunately broke up some four miles of ice, and we started in the morning possing through the broken ice and then cut through solid ice for a distance of three quarters of a mile, a Itudson Bay Company's boat leading. (We brought three of them from Fort Francis.) the ior gradually increased in thickness, and finding it impossible to take the boots for ther, we builed on an island some eight miles from the Augle. One of the tugs which had been previously she ted with iron made an attempt to cut through the ice, but was unsuccessful getting completely wedged

November 13th. -At 1 pm. to-day the tranga abuted to murch on the ico towards the Angle. Having to keep close to shore round the bay, increased the march to ten Captain Armstrong with a rear guard of twelve men was left on the island in charge of baggage, stores, etc., and the voyageurs also rema ned to ereot huts over the tugs and toots. Each soldier on the march carried his riff-accountements, knopsack and blankets. On arrival at the North West Angle, the men were very 'tired after the much over am oth ice. Several of the men were exhausted when within three nules of the Angle, but they were carried on hand sleig.s; pieroing cold weather all dav.

November 14th .-- We were up at 5 o clock this a.m. Louled cuts, one to each squad of thirteen men, and with thirteen waggons to corry half the men, started for Fort Garry at 7 o'clock a.m. The waggons relieved the marching men every hour. Arrived at Birch River (thirty in les) shortly after dok. Tents were already puched for us by order of Lieut. Col. O. Smith. One man attacked by inflammation of the bowels was left at the Angle in charge of Dr. Codd.

November 15th.-Reveille at 3 80 this morning. Storted as tive, and reached our company ground for the night (.3 miles from Birch River) at 3 p.m. The day was intensely cold, but the men, sithough westy and footsore were in good spirits. Tents were patched here also awaiting our strival.

November 16th .- Reveille at 3.30 a m. Binted at 5 and reached Prairie du Chene at 5 p.m. Snow fell steadily during the day.

Doctor Godd arrived at this place this at the Angle, and another (the of the reat guard) who was taken ill with inflummation

November 17th .- Snow continued falling all last night, succeeded this morning by a piercing odd min i. We intended scaching fort Garrethis evening, but, dwing to extreme cold were compelled to camp in the

when were compelled to camp in the when when within thirteen miles of the Fort. A number of the men became exhausted from cold, we would here hides sharly, and inher proper treatment speadily recovered. November 18th—The weather last night and during the whole of the day was in tensely cold: We arrived within a mile of Fort Garry'st twelve noon. Here the force was ordered to full in with arms and accoutrements, and we marched across the Red Hiver and Assimptions on the ice to the Port. Lieut. Col. Smith, the officers and men of the Garrison and a large number of the inhabitants of Winnipeg, were assembled at the Fort to welcome us. With the exception of Fort to welcome us. With the exception of the two already mentioned the men were in tolerably good health, considering the great hardships and fatigue which they had under

The conduct of both officers and men during the whole route was highly commonth ble all having worked diligently and cheerfully, and mahitering a desire to make the expe dition a complete success, by endeavouring to reach Fort Gerry in the shortest possible

to reach Fort Gerry in the shortest possible time, thus showing that Cahadian soldier are copule of enduring any amount of fatigue, and overcoming all obstacles. I cannot close this without speaking highly of the valuable sid rendered by Mr. Dawson in every possible way through out the while route. He worked most energetically in senting supplies ahead, and by the personal everylable in this restants. his personal exertions in this respect contrubuted much to the success of the expedi

I have the honour to be, Sir. Your most-oladient servant; THOS. STOTE . aptain, Commanding Manitoba Expedition

To Col. Robertson Ross, Adjutant Gen. Canada, Ottawa.

## TORPEDOES AND FORTS.

The Morning Post, writing on the next. Forts versus Guns, comes to the conclusion that both will sink into a secondary position when a new weapon, now in its infancy, i pertected. The weapon alluded to is the torpedo, the value of which is far from being duly appreciated. The experience of the late American war, however, demonstrates that a combination of forts and torpedoes will effectually prevent a fleet from passing a clannel which could with almost impunity he entered if its doience were entrusted to forts a one.

Out of many examples of this fact, our contemporary mentions the case of Fore Sum ter, at the entrance of Charleston Harbour into which the Federal fleet upsuccessfully into which the F-qeral near upsuccessing attempted to force a passige in the spring of 1863. Here the channel was blocked by a barnorde, sagunary be called, of piles with turnedoes, so placed us effectially to resist all the ellorts of the fleet to penetrate it even when the fort was in rulins and its guns had been frequently silenced. Nor can it be organized as an argument to weaken the force of of the fact that the attacking fleet was of of this fact, that the attacking fleet was of no great atrength, for it consisted of at least eight fronclad monitors, each heavily at med of which one was subt, and others received

upon them. The point to be observed here upon them. have produced this result, even h. I the en tranon to the harbour been barred by an un armed obstruction, for such an obstacle might without serious difficulty have been removed during the night by men in oraft of so small a size as to have evaded sidtion, or, if discovered, to have excaped dambge from a tillery, and its removal once effected, the ships might have run past the butteries with ease. Neither can ideped on alone be de-pended upon for perfect defence, as was exemplified at a later date than the attack on Fort Sumter, by the taking of Spunish Fort by the Federals, although those engines were used to protect it. In the same war it was found that the presence of batteries sided by a partial obstruction was not sufficient to exclude a determined enemy. was the case at the lower Bay of Mobile, which was taken by the Frederal fleet, not, indead, without loss, as one ironclud was

blown up by a torpedo.

It would appear, therefore, that the only reliable defence for a harbour is a system of armed obstruction—that is to say, barri ordes to which torpednes are attrolled, sup plemented by forts on shore or fluiting butplemented by forts on short or arring treits. Thus protected, fort would be practically impregnable, if not quite unassailable and this most important object would be effected at a much smaller expenditure than the ineffectual defence by he will arrive forts would entail. Of the destructive power of impedoes, and their utility in stopping the passage of fivers, it is mirkable instance is given in a pumpilet on "Sublimine Mines," by an officer of the Royal Engineers who has been the pioneer of torpedoing in this country, and his given to the subject a west amount of careful study. In recombing the destruction of a gunbont-the Commodore Jones -it is stood that the vessel, which was reconneitring, was blown up by two mines which had been dropped in the James River by the Confederates, and "on the explosion taking place, the sunbout appeared to rise and then bently little in the middle. The movement was followed almost immediately by the explosion of the boilers, which sent everthing into the sir. . . The affair wis followed by a most remarkable stillness ohly broken by the splash of filling bodies and frigments." The attacking Federa fleet at once boat a retreat; having lost the gunbook and nearly the whole of her officers and crew from an onemy whose presence was wholly this uspected.

## IMPROVEMENTS IN TORPEDOES

The solenific committee at Woolwich are making extended investigation into the characteristics of the eyers! kinds of torpodoes invented and the conditions most favourable to their use, The triels are generally conducted in secret often by might and in the Royal Laboratory. .. The muly of torpodoes, now, that the weight of guns and the thickness of armour-plating hypear to have reached their utmost limits, is assuming the first improtence in heaf and military ing the first improvement invarious military circles; and secourse of four lectures on the satisfic times the livered at the Hojah Artillery Institution, Woolwich, by Mr E. O. Brown, assistant circles to the War Department, horse-beam lattended: by large thumber of officers belonging to the exceptibility of the large three larges of the large of the larg Certain systems now undergoing investige ulrendy in the possession ob foreignic Glasminents, and others have been somewheaty disof which one was sunk, and others received chasis and exhibited that foreign coillest severe injury from the life concentrated are at least as well acquainted with them se