THE DESERET NEWS.

BLE.

OFFICIAL REPORT. To the Directors of the Atlantic Telegraph Company.

LONDON, Tuesday, Aug. 18.

Gentlemen:-I forwarded by the Leopard a lars connected with the expedition.

7th inst., the paying out of the cable from the rate of the wheels grew slower as the ship sponded to, and the following officers have ar-Niagara progressed most satisfactorily until dropped her stern in the swell, the break rived in town, and will be in consultation with immediately before the mishap.

smaller cable, about eight miles from the start- den des ent of the ship temporrially with- Leopold; Captain Sands. United States frigate ing point, it was necessary to stop to renew drew the pressure from the cable in the sea; Susquehanna; Captain Hudson, United States have already been taken with reference more the splice; this was successfully effected, and but owing to our entering the deep water the frigate Niagara; Master Commander Noddall, especially to the quality of the cable as tested hawser until it reached the bottom, buoys for any emergency that might occur there, the Lenant Commander Dayman, Her Majesty's unanimous in their approval of its form and being attached at a short distance apart to chief part of my staff had been compelled to ship Cyclops. mark the place of union.

of cable, including the heavy shore end, our time to leave the machine without, as it to the progress of the work, however mortify-59' 37" N., long. 11° 19' 15" W., and the followed, 90 fathoms.

cable had been sufficiently retarded by the necessary to place some further restraint upon place. it by applying pressure to the friction drums of the soundings showed to be requisite.

ed with its operation.

called out to ease the break and reverse the en- purpose, to report to the General Board. gine of the ship, but when I reached the spot The direct rs will sit in permanence till their the cable was broken.

On examining the machine, which was oth- termined on. brief statement of the circumstances attending erwise in perfect order, I found that the breaks The appeal of the directors to the commanthe fracture of the cable on the 11th inst., and had not been released, and to this or to the ders of the several ships composing the Atlan-I have now to lay before you the full particu- handwheel of the break being turned the wrong tic telegraph squadron, to come forward and insoring future success. With this view they way may be attributed the stoppage. and the aid the undertaking at this juncture with their have brought together all the commanding offi-After leaving Valentia on the evening of the consequent fracture of the cable. When the advice and experience, has been cordially re- cers of the Atlantic squadron, together with should have been eased; this had been done the directors to-morrow:--

At the junction between the shore and the regularly before whenever an unusually sud- Captain Wainwright, Her Majesty's ship living individual.

power necessary to keep the machinery in mo- amount of retarding strain put upon the cable, ours had been safely overcome, the beautiful cident occurred, he was in constant attendance tion at a rate a little faster than the speed of but had the machine been properly manipulated flexibility of the cable having rendered it ca- upon the paying-out machinery. the ship; but, as the water deepened, it was at the time it could not possibly have taken pable of adapting itself, without strain, to cir- The cause of the accident was simple enough. in connection with the paying out sheaves, and ure that the machinery is too massive and pon- The combined influence of the low temperature on 'dead nip' when he should have eased off this was gradually and cautiously increased derous. My experience of its action teaches of the water and the compression of the pores the cable. No doubt the employment of any from time to time as the speed of the cable, otherwise; for three days in shallow and deep of the insulating medium had practically su h person in so critical a capacity was a secompared with that of the vessel, and the depth water, as well as in rapid transition from one shown that the action of a telegraphic cable, rious mistake; but the excuse is that Mr. By midnight 85 miles had been safely laid; its working, and since it performed its duty proved by being sunk in deep water. the depth of water being then a little more so smoothly and efficiently in the smaller The only difficulty worthy of consideration novelty of the undertaking, and which cannot At 8 o'clock in the morning of the 9th, we ability to overcome its friction and resistance, ticability of making the splice in mid ocean. water, where it was necessarry for the increasby applying to it a considerable degree of ad- | The two ends on board the Niagara and Aga-By noon we had laid 136 miles of cable, the ditional friction. Its action was most com- memnon were joined together, and the splice depositing it in the greatest depth (2.000 fathplete, and all parts worked well together. I long. 13° 10' 2" W., and the depth of water see how it can be improved by a modification fathoms, and during a heavy sea. The exper-| arrangement for adjusting the breaks and some | other slight alterations; but with proper mankept down the rate at from three to four knots agement, without any change whatever, I am made more and more cheering and certain the From all we can learn, therefore, derived from for the small cable, and two for the heavy end | confident that the whole length of cable might | prospect of complete success on the next ocnext the shore, wishing to get the men and have been safely laid by it, and it must be re- casion. machinery well at work prior to attaining the membered, as a test of the work which it has done, that, unfortunate as this termination to the expedition is, the longest length of cable At 4 o'clock in the morning of the 10th, the ever laid has been paid out by it, and that in After the accident had occurred soundings were taken by Lt. DAYMAN, and the depth found to be 2,000 fathoms. It will be remembered that some importance was attached to the cables in the Niagara and Agamemnon being manufactured in opposite lays I thought this a favorable opportunity to show that practically the difference was not of conse-We therefore made a splice between the two ves-At noon on the 10th we had paid out 255 sels, and several miles were then paid out with-

THE ATLANTIC TELEGRAPH CA. mechanic who had been engaged from the first ditional arrangements and precautions which in its construction and fitting, and was acquaint- the valuable knowledge and experience gained by the late attempt will dictate in respect to Company have met the recent failure in the I was proceeding to the fore part of the ship future operations has been committed to the when I heard the machine stop; I immediately charge of sub-committees appointed for the

future plans have been fully discussed and de-

give in at night through sheer exhaustion, and Sufficient information has already been ob-By noon of the 8th we had paid out 40 miles hence, being shorthanded, I was obliged for the tained to show clearly that the present check

gineer in a heavy sea, subsequent to the acciwrought out by the recent expedition have

[From the London Gazette, August 21.] The directors of the Atlantic Telegraph attempt to deposit the cable in a spirit which augurs well for the future success of the undertaking. Instead of permitting the irritation naturally created by so mortifying a casualty to lead to idle complaints and recriminations, they have set to work like men to extract whatever is valuable from the experience of the expedition, and to concert measures for Captain Harrison, the future commander of the Great Eastern, whose knowledge of the Western ocean is perhaps equal to that of any

The collective opinions of these gentlemen the end of the heavier cable lowered by a previous morning, and having all hands ready Her Majesty's ship Agamemnon, and Lieu- by the late experiment, and they appear to be adaptability for the service for which it is designed.

The nautical and other physical difficulties have also been discussed, and the deliberations exact position at that time being in lat. 51 ° proves, sufficient intelligence to constrol it. ing, has been purely the result of an accident, have been assisted by the very able report of I perceive that on the next occasion it will and is no way due to any obstacle in the form Mr. C. T. Bright, the Engineer to the company. depth of water, according to the soundings be needful, from the wearing and anxious na- of the cable, nor of any natural difficulty, nor Mr. Bright had perhaps a better opportunity taken by the Cyclops, whose course we nearly ture of the work, to have three separate relays of any experience that will in the future affect than any one else for testing the practicability of staff, and to employ, for attention to the in the slightest degree the success of the enter- of the undertaking, for, apart from his high Up to 4 p.m. on that day the egress of the breaks, a higher degree of mechanical skill. prise. The only sudden declivity of any seri- professional attainments, we learn that from The origin of the accident was no doubt the ous magnitude from 410 fathoms to 1.700 fath- the time the Niagara left Valentia till the accumstances which would probably have been It was occasioned by the ignorance of a me-It has been suggested as a cause of the fail- its ruin had it been more rigidly constructed .- | chanic who acted as brakesman, and who put to the other, nothing could be more perfect than so far from being impaired, is materially im- Bright's staff was short-handed-a state of things in some measure attributable to the depths, where the weight of the cable had less which remained was to demonstrate the prac- by any possibility occur in any future attempt. The facts of importance arrived at by the reit can scarcely be said to be too heavy for deep This was put to experimental test by the en- cent experiment are, that the cable is sufficientiv strong to bear the necessary strain, 35 ed weight of cable to restrain its rapid motion dent, and before the return home of the ships. cwt. having been applied with safety before the casualty; that the apprehended difficulty of let down to the bottom into soundings of 2 000 | oms) was overcome with comparative ease; that the Niagara was able to lie to with the in the form of sheave, by an addition to the iment was perfectly successful, and these and cable in the deep sea; and that a junction of all other circumstances which have been the cables of the Niagara and Agamemi on was effected with complete success in mid ocean. sources which we must consider authentic, there is every reason to suppose that, but for a casualty in no way resulting from the experiment itself, the object of the expedition would have been completely successful. The practicability of depositing all ocean cable has been satisfactorily demonstrated, and experience derived from the late failure steamship, attended a meeting of the Board at will enable the next expedition, it may be hoped, to command success. Whether it is the intention to make another attempt this year or not has not been announced. Captain Harrison, it would seem, is favorable to making another effort in the early part of November inasmuch as, during the first portion of that month, shortly after the equinoctial gales, both the sea and the atmosphere in the Atlantic are that exist in the way of the enterprise, and as favorable to the work of depositing the cable. We shall, of course, watch the future proceecings of the directors and their advisers wih interest.

than 200 fathoms.

had finished the deck coil in the after part of the ship, having paid out 120 miles. The change to the coil between decks forward was safely made.

Niagara having reached lat. 52 ° 11' 40" N., having increased to 410 fathoms.

In the evening the speed of the vessel was raised to five knots per hour. I had previously speed which I had anticipated making.

By midnight 189 miles had been laid.

depth of water began to increase rapidly from the deepest water yet passed over. 550 fathoms to 1.750 in a distance of eight miles. Up to this time 7 cwt. strain sufficed to keep the rate of the cable near enough to that of the ship; but as the water deepened the proportionate speed of the cable advanced, and it was necessary to augment the pressure by degrees until in the depth of 1.700 fathoms, the indicator showed a strain of 15 cwt., while the cable and ship were running 51 and 5 knots quence in aff cting the junction in mid-ocean. respectively.

miles of cable, the vessel having made 214 out difficulty. miles from shore, being then in lat. 52 = 27? 1 requested the commarders of the vessels to ble to make in all or any of the plans for per-50" N., long. 16 ° 0' 15" W. At this time we proceed to Plymouth, as the docks there afford experienced an increasing swell, followed later better facilities than any other port for landing in the day by a strong breeze. From this period, having reached 2,000 fathoms water, it was necessary to increase the fully tested and inspected, and found to be in as strain to a ton, by which the rate of the cable perfect a condition as when it left the works at was maintained in due proportion to that of the Greenwich and Birkenhead. ship. At 6 in the evening some difficulty arose tion at an early period; a large portion of the cathrough the cable getting out of the sheaves of ble already laid may be recovered at a compara ive the paying out machine, owing to the tar and small expense. I append an estimate of the cost, pitch hardening in the grooves, and a splice of and shall be glad to receive your authority to prolarge dimensions passing over them. This was ceed with this work. rectified by fixing additional guards and soften- I do not perceive in our present position any ing the tar with oil. It was necessary to bring up the ship, hold- contrary, a greater confidence than ever in the ing the cable by stoppers until it was again undertaking. It has been proved beyond a doubt properly disposed around the pulleys. Some that no obstacle exists to prevent our ultimate importance is due to this event, as showing success, and I see clearly how every difficulty that it is possible to lie to in deep water with- which has mesented itself in this voyage can be out continuing to pay out the cable-a point effectually dealt with in the next. upon which doubts have been frequently ex- The cable has been laid at the expected rate in of considerable improvement, and, in confor- ization of his race. pressed. Shortly after this the speed of the cable gain- the entire length has been most satisfactorily aced considerably upon that of the ship, and up complished, while the portion laid actually imto 9 o'clock, while the rate of the latter was proved in efficiency by being submerged, from about 3 knots by the log, the cable was run- the low temperature of the water, and the close complishing its object. ning out from 51 to 53 knots per hour. The compression of the texture of the gutta percha. strain was then raised to 25 cwt.; but the wind The structure of the cable had answered every present year, the directors had the advantage and sea increasing, and a current at the same expectation that I had formed of it, and if it were of Captain Harrison's great knowledge of the time carrying the cable at an angle from the now necessary to construct another line I should state of the weather, fogs, ice, &c., in the direct line of the ship's course, it was not found not recommend any alteration from the present North Atlantic, and his experience enables him can perform. sufficient to check the cable, which was at mid- cable, which in its working has confirmed my be- to say that the month of October and the first night making 21 knots above the speed of the lief that it is expressly adapted to our require- portion of the month of November, more parship, and sometimes imperilling the safe un- ments. Its weight in the water is so adjusted to ticularly when the equinoctial gales have been coiling in the hold. The retarding force was therefore increased scope, while the effect of undercurrents upon its or atmosphere that would be injurious to an mission their mammoth was destined to fulfil, at 2 o'clock to an amount equivalent to 30 cwt., surface proves how dangerons it would be to at- expedition like the present. and then again, in consequence of the speed tempt to lay a much lighter rope, which would, continuing to be more than it would have been | by the greater time occupied in sinking, expose | prudent to permit, to 35 cwt. By this the rate an increased surface to their power. of the cable was brought to a little short of 5 | I have the honor to remain, gentlemen, knots, at which it continued steadily until 4.45, when it parted, the length paid out at that time being 335 miles.

the cable, should it be necessary to do so.

[From the London Times, August 21.]

The commanding officers of the several ships composing the Atlantic squadron, and Captain Harrison, who has recently been appointed to the future command of the Great Eastern the company's offices yesterday, having been specially invited, to express to the directors their opinions and advice, drawn from their several observations and experience, as to the efficiency of the form of cable adopted by the company, as to the suitability of the machinery and appliances for paying out, as to any obstacles of a nautical or physical character to the alterations and amendments it is desiraforming the work with greater safety and security on the next occasion. There is but one unanimous expression on the part of the naval officers in reference to of opinion that a form of submarine telegraph could not be devised more suitable in every respect to the object intended to be accomplished. Its lightness, toughness and flexibility to send her electric tongue "to earth's remotest adapt it in every way for Transatlantic pur- bound." poses, and they are unwilling to recommend its modification or alteration in any way .--They are also of opinion that no natural obstafuture, based upon past experience, are san- | dictions. guine. opinion also, unanimously, that the form of controlling power adopted and the mode of lubricating and adjusting the brakes are capable mity with this opinion, the directors have forthwith ordered an inspection and report to be made by three independent nautical and mechanical engineers upon the best means of ac-With regard to future operations during the the depth that the strain is within a manageable severe, are usually free from any state of sea

The whole of the cable on board has been care-

One important point presses for your considera-

reason for discouragement, but I have, on the

the great depths; its electrical working through

Yours very faithfully,

CHARLES T. BRIGHT.

among the officers present as to the practica- | earth. bility of recovering a large portion of the ca-

TO THE EDITOR OF THE LONDON TIMES.

SIR,-England, having once put her hand to the cable itself. They are with one consent the plough, cannot leave it until the furrow is completed.

It has been England's destiny to make the Transatlantic cable, and will, I trust, be hers

The grand project has been commenced in a most enthusiastic manner, and in cordial connection with the nation that has sprung from cles of any moment exist to prevent its being us-one of the "multitude of nations" that are successfully laid, and their views as to the to be developed according to old Jacob's pre-

But, however laudably and spiritedly it has Wth regard to the machinery, they are of been undertaken, it has not yet been accomplished, and it remains to be acknowledged the hand of Providence helpeth when man faileth, where his object is the amelioration and civil-

Who would have thought, while wandering over that astonishing fabric now building, the Great Eastern, that this was to be her mission, and which I verily believe must be, if ever it is accomplished? How strange that the motster should have been slowly growing to maturity, and now, just in the nick of time, there she is, ready to accomplish the work-a work which I believe no other vessel in existence

Thus, while the projectors of this "mighty machine" had outstripped the bounds of mercantile dimensions, as suited to the present requirements, they little dreampt the illustrious preparing the road for "knowledge to run to Somewhat diverse opinions were prevalent and fro on the earth"-nay, and round the

Your able correspondent "N. M.," in your ble already submerged; but all agreed that the paper of the 17th inst., will be glad to dispose shore end may be taken up and buoyed, and of the old cable to carry out his important sug-

that a further length of the smaller portion can gestions, and which ought and must be done.

be hauled in, but with what extent of injury and the fine old Agamemnon, accompanied by [From the London Times, August 20.] to its electrical value experience only can de- her sister of mercy Niagara, must reel off their I had, up to this time, attended personally to the regulation of the breakers; but, finding that "mortal coil" in the land-locked Mediterra-A very full meeting of the directors of the termine. Eight or ten days will yet elapse before the nean, so that both countries may share in the all was going on well, and that it being neces- | Atlantic Telegraph Company was held at their sary that I should be temporarily away from offices this day, (Wednesday.) glorious work, a flash through which may save various matters of detail referred to the inthe machine to ascertain the rate of the ship, The fullest investigation into the events quiry and investment of sub-committees can a million souls. and to see how the cable was coming out of the which have led to the present pause in the un- be reported upon to the general board, and con-The details I leave to the talented promoters hold, and also to visit the electrician, the ma- dertaking, into the sufficiency of the applian- sequently before any authoritative statement and practical men of the present undertaking, where it has been by all allowed great talent whine was for the moment left in charge of a ces for paying out the cable, and into the ad- can be made as to fature proceedings.