SECOND REPORT

ON THE GEOLOGICAL SURVEY OF THE PROVINCE OF NEW BRUNSWICK. By Abraham Gesner, Provincial Geologist, &c.

[Continued.]

CHIGNECTO BAY COAL FORMATION. fossil plants found at Grindstone Island, and Bay. Such as have been found on the east planet. side of this Bay, in Nova Scotia, have been but briefly considered at present.

rage, New Horton, Grindstone Point, and like massive columns whose summits are scarcely Grindstone Island, were also discovered at uncovered by the greatest retreat of the tide; and Cape Meranguin. Among these are trees, thus the terrestial changes to which they have frequently of large dimensions, which have been exposed, have buried them beneath the been considered most nearly allied to the coni-fera, (fir tribe) of the warmer latitudes. The the cliffs, where they are ready to fall from trunks and branches of these trees are lying in their sepultures, and disappear before the neall directions in the rocks. They are seen at low ver ceasing attrition of the sea. In the steep water extending directly downwards, and often embankment lie buried the lofty palm, and penetrating the strata at right angles. Again, auracarian pine, that flourished in a moist and they appear situated obliquely along the sides heated atmosphere; while on the surface, the of the cliffs; and in other instances, between hemlock and the hardy spruce of humbler win. nation of which they sometimes conform.

are two feet in diameter, after the bark (now pours. changed into coal,) has been removed. From their dimensions'as still seen, they were lofty trees, and far surpassed in beauty and grandeur, any now flourishing on the soil that co- of the sulphuret of that metal, and the quantity so collected, that the original vegetable fibre Hon. Judge PARKER, with whom we had the of one species are still as well defined as they ting locality. are in the living oak.

These monuments of the herbage of a remote era, appear like the decayed stumps of a forest overrun with fire. In particular situations, the sandstones and shale abound in the remains of smaller plants, and leaves, which have been scattered abroad, and are now scaled up in the solid rock; of the latter, one variety belonging to the fern tribe was only discovered at one

Four species of the syrengodendron were procured at different situations along this shore. They were plants of considerable size, and differ from the calamitæ in having no joints, and the greater distance between the flutings. None of the cactae, and but one species of the phytolithus (steinhauer) were discovered at Cape Meranguin: this circumstance is somewhat remarkable, as they are abundant on the opposite shore. Calamites are numerous. These fossils are distinguished by their jointed and striated stems. One of these was procured, which before it was removed from the rock, had the remains of its leaves still adhering to its surface. The calamite was supposed by BRONGNIART to have been allied to the equisetaceæ (horse tail tribe,) plants still living in cold climates; but even those now growing between the tropics are very inferior in size to these of the coal period, being seldom more than an inch in diameter. We have one in our possession, in a fossil state, from Chignecto Bay, no less than four inches and a half in stock. Fare, Fifteen Shillings. thickness. This shows how favourable the climate and soil were at former periods in the history of this earth, to the production of these

Besides these we have two species of Sigillaria, (Brongniart), which, if not altogether

three feet in diameter, and must have been owned by J. Morris containing 550 acres, of from forty to sixty feet high. The scars on the which about 25 acres are under mowing ground. stems are in parallel rows on the flutings, and the sections of the vessels leading to the leaves, TIMBER and LOGS. Also.—The Irvine are still visible. There can be but little doubt, and Donnell lot, so called, of which 40 acres that these vegetables were arborescent ferns, are cleared, and can readily be made a Good but they have no successors on the earth in FARM, the residue of these lots containing 400

along these shores, but we forbear entering upon a minute description of them, as it would at M'Gundy Stream, with exceed the limits intended for this report.

The fact that coal is of vegetable origin, is now established and believed by every geologist who has impartially examined its relation adjoining the West Lot, which are all well coto the ancient vegetation of the earth. And vered with Logs and Timber, yielding a plenti its situation in separate troughs or basins, offers ful supply for said Mill; there is on the Glertly an explanation of the manner in which the vegetables it was derived from were accumulated. Lot about 40 acres under Grass, well fenced, with a good Dwelling House and Barn, in Near Cape Enrage, there are two strata of which a family could be immediately accommobilack, shaly limestone, containing the remains of fresh water muscles. At the South Joggin, or any part of the above property will be Sold on the Nova Scotia side of the Bay, there are or Leased in small parts, or the whole, on the three strata exactly similar in their characters most liberal terms, and payments made easy. and organic remains. These strata are placed one above another at a distance of several hundred feet, and at the latter place, two strata of coal of considerable thickness, are interposed between them. Thus it appears evident, that this coal basin had successive deposits of mineral and vegetable matter spread over its surface, and that there were periods when moluscous animals were permitted to occupy its whole area, without being disturbed by those violent causes by which other succeeding strata were formed; and it also appears evident that this basin was a lake, and not open to the sea, as all its fossil shells belong to fresh water species.

The characters of the fossil animals, and more especially the flora of the carboniferous period, lead us to infer, that the waters of the ocean and lakes, and also the climate were much warmer, and less variable than that of the latitudes where coal strata are abundant. The existence of large treeferns, which may be called the descendants of those now found in a fossil state, still growing in hot and humid climates, confirm the opinion that the temperature of the atmosphere and ocean, have been reduced in nothern latitudes. If it should be observed that most of the plants of which the coal was evidently sity or the ave become extinct, and therefore trepolis. As referred to, in supporting this argument, yet the whole of their characters, when viewed generally, are such as prove the warmth of the climate when and

where they flourished, Under all these circumstances it is exceedingly difficult to avoid looking backward into time, and taking a view of the condition of the earth at that period when the materials for fuel We have already briefly adverted to the were produced, and laid up in nature's vast store house, to supply the wants of man, who other localities along the shores of Chignecto appears to be among the latest occupants of this

When the present growth of vegetables, noticed in a work devoted to the geology of covering the dry land of this district, is comthat Province, published in 1836; and in a pared with the fossil flora of the rocks beneath, communication prepared for the Geological a contrast the most remarkable and peculiar, Society of London. The object of this report cannot fail to strike the mind of the observer. will not admit of a full description of these The remains of large tropical trees, not only apvegetable relics, and therefore they will be pear in the cliffs of the shore, but their colossal trunks, broken by the fury of the waves, are scat-The same fossils which occur at Cape Entered in fragments along the beach, or appear the strata of shale and sandstone, to the incli- growth, seem to mock the grandeur of their predecessors, over the graves of which they bid Some of these relics of ancient vegetation, defiance to the winter's snow and frigid va-

the cliffs at some places are covered with the George Hartt, C. A. Harding. sulphate of iron, produced by the decomposition vers their graves. Their woody parts have is sufficient for the manufacture of copperas upbeen converted into coal, lignite, sulphate of on a large scale. In one instance the sulphate barytes, and iron pyrites. These minerals are of lime in small crystals was observed by the of plant remains distinct, and the annular rings pleasure of making our last visit to this interes-

(To be continued.)

NOTICE. ROYAL MAIL STAGE.

BETWEEN Fredericton and Woodstock.

HE Subscriber intends running a daily STAGE between Fredericton and Woodstock, commencing on the 23d December, inst.; through which, persons arriving from Saint John, &c., can find an immediate conveyance to Woodstock, Canada, the United States, &c. Comfortable Stages and first rate Teams will be provided, and every attention given to passengers. The hours for leaving each of the above places will be as follow:-

From Fredericton, Monday, at 7, A M. Tuesday, 3, Р. м. Wednesday, 7, A. M. Thursday, 7, A. M. Friday, 7, A. M. Saturday 3, P. M. From Woodstock, Monday, at 7, A. M. Tuesday, Wednesday, 1, P. M. Thursday, 7. A. M. Friday, , P. M. Saturday, , P. M.

The Stage Books will be kept at Jackson's Hotel, Fredericton, and Mrs. Grover's, Wood-JOHN FROWN. Fredericton, December 5, 1839

FOR SALE OR LEASE.

For One or a Term of Years.

different from any described by fossil botanists, THE Valuable SAW and GRIST MILL at Lake George, with a Dwelling House, The trunks of these plants are from one to BARN, &c., together with the LAND formerly

do. do. Gertly Lot. 100

purchased of Government MARK NEEDHAM. Apply to

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POST OFFICE.

Fredericton, March 5, 1840. List of Letters remaining in Office at this dat

Mr. T. or J. Allan, Isaac Albert.

Daniel M'Bean, Mr. Babin, Robert Baird, S. Burk, Messrs. Duncan Barber, & Co. (2,) John Beyley, James Barrett, Thomas Banks, Duncan Buchanan, A. Barten, J. W. Barker, George Bean.

Thomas Camber, Edward Caldwell, Richard Carman, (2,) Owen Conway, Geo. B. Covert. John Campbell, Mary Campbell, John Carson, Wm. Clapperton, James Coy, Enock Currier.

Thos. Day, Wm. Dunn, John Denton, Mrs. Doyle, David Daris, Joseph Drapiers.

Daniel Easty, Wm. Earle.

Bernard Ferney, Wm. Faulkner, Thomas Fuller, A. K. Foster. Wm. Faukner, Frances, Flanagen, (2,) A. J. Fullerton, James Fergu-

Thos. Gill, Michael Graham, John Gurdon, Joseph Graham, Dennis Godfrey, Ichabod Grant, Gilbert Golding, Joseph Gibson, Margaret Gallagher, James Groves, Wm. Good-

James Hull, Stephen Hill, Samuel Huston, (2,) Donald Hossack, Edward Hamilton, G. W. Hartt, Alex. Hanning, Timothy Har-At Cape Meranguin, and near New Horton, rington, Michael Harrington, C. L. Hathaway,

I & J Joseph Joynes, H. Ingram, Sophia Jackson, Margret Jones.

Joshua Lewis, Mrs. G. T. Lathman, Andrew Little, M. Lathom, Abraham Long, Nathaniel Lock, John Lindsay, A. C. Lowell. M & Mc.

James M'Gregor, John Murray, (2,) C. Mountain, John N. Gibbon, Rev. J. Mann, (2,) M. Keigen, Ann M'Guier, James M'Mahon, Miles & Smith, (3,) John Murphy, William M'George, John L. Marsh, (2,) Jas. M'Bride, P. M'Sorley, John M. Kinna, John M'Vey, John M'Canny.

Matilda Neill.

John O'Brien, Daniel O'Neil, John Osborn,

Amos Pickard, Mrs. R. Porter, William Pringle, D. Palmer, Mary Ann Playforth, Charles Paterson, John L. Paterson, John Partley,

Thomas Quigley.

Mrs. E. Sloot, Samuel Sharp, Isabell Sharp, David Smith, Hugh Savage, Mary Stevenson, Thomas Sennet, John Swift, Geo. Sutherland, H. Smith, Lacretes Smith, John Lane, Robt. Steward, Stephen Smith.

John Temple, Wm. Torrens, Margt. Topping, Miss. M. Thompson, John Thompson, Daniel Timmings.

Wm. Upton, Edward Vincient,

Hugh Wiley, Wm. Wilmot, Ellin Winn, B. J. Wheeler, George Wightman, John Wiley, George White, Thos. Wilson, David White, Alex. Wilson, Thos. Woods, John Wilson,

Elias Yerxa. N. B. Persons asking for any of the above will please say that they are advertised. W. B. PHAIR, Post Master.

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Cactæ, and other plants common to coal formations may be collected at many places

Cactæ, and other plants common to coal formations may be collected at many places

Cactæ, and other plants common to coal formations may be collected at many places

Cactæ, and other plants common to coal formations may be collected at many places Also for Sale or Lease, the new SAW MILL at M'Gundy Stream, with

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NOTICE.

Property against loss or damage by Fire.

F this should meet the eyes of SETH GRIS-WOLD and JOHN GRISWOLD, sons of JOHN GRISWOLD, late of Litchfield, in the State of Connecticut, and Grand Nephews of SETH GRISWOLD of Queensbury, in the County of York and Province of New Brunswick, deceased, and if they will come to this Province of New Brunswick, and apply to DAVID M'-ROBERTS, IRA INGRAHAM OF LEWIS HUESTIS, of the said Parish of Queensbury, Executors of the last Will and Testament of the said SETH GRISWOLD, deceased, they will hear of something to their advantage.

Queensbury, 29th Oct. 1839. The Editors of the New York Albion or Emigrant, Montreal and Quebec Gazettes, are requested to give the above three insertions in their respective papers, and forward their ac-counts to this Office for payment.

DEEDS, LEASES. Bonds and Mortgages. sale at this Office.

By Authority.

RETURN of sums which became due at the Crown Land's Office from the 1st December 1839, to the 29th February, 1840, inclusive, for Land, and which have not been paid. Published for the information of the Parties, by order of His Excellency the Lieutenant

County.

Nature of Debt.

Amount.

Name.

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