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## Survey Across Country by way of the Bay D'Est River, Noel Paul's and the Exploits

Report of Progress
For the Year 1888
By JAMES P. HOWLEY. F.G.S.


ST. JOHNS, NF.
Robinson \& Company, Limited, Press

## N.J. Sanum-n-N/y

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# REPORT <br> OF <br> Survey across country by wey of the Bay D'Est River, Noel Paul's anu the Exploits. 

Geolorical Survey Offier. March lith Iss!.

## 

Silt,-I here to shbmit the following report, toredher with the arompminine map of the fonst season's field-work, also in report of the Huselime during the sume period.

Tho survey of $188 \%$, extemling across the country from For-
 probable eastern extension of the Magnesian group of rows of the Bay l:ast liver resion. Whane existene in the latter lowatity was determined by my proleresor, Mr. Murray, in 18:0.

Durine the past sason a similar surve across the central in.
 its objerets, the definitige of the Wistern Bommbary of this same !!romp of roke. $\therefore$ ther object of this latter survey was to asertaill the Sonther its of the forest land of the Exploits valley, and the exphation and toporaphical survey of a large tract of hitherfo meknow interior. lying between the Exploits on the anm side. and the waters of Bay Bast, Little liver and White bear Bay Riser. oll the wther.
'To wfert these varions: ohjeets in the quirkent amd reachest mamor posihle. advantare was taken of the Bay East liver, al-
 the edinter of the istand from the sonth side. The assent of the lattur riwer was rommened on Joly 10th, having previously portaged mill allons. hagrape. provisions, fic, over some fise miles of country. lying between the head of Bay D'Espoir nad Lomer Pond: the first of the suite of large lakes on the River. This was a work uf excessive lahor, as the country was steep and rugged, and at the













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 jomruey down th the salt wator atal batek anath hat herol a wer


We were now fairly equipped for the remainder of the season, and pushed forward with renewed vigour. Noel Paul's steady was reached on the 10th of October.

Ilaving surveyed this benutiful stretch of the river upwards: some seven miles to a large fall, we commenced the deserent on the lith and reached the main Exploits River on the 19th.

Here our semson's field-work ended, having succeeded in conneeting the work on both sides with that of previons years. Our Gourney down the Exploits Raver was performed with little delay, excopt at the portages, and a couple of days spent at Badger Brook to rest and repair canoes. We arrived at the month of the bixploits: River on the 24th of October, and at Exploits Harbor on the $2 i t h$. At the latter place we were delayed several days a waiting a passage home; finally, we got aboard the S. S. Plover, and readeed St. Johns on November the th. Our crew, consisting of four Indians and two white men, behaved throughont the long toilsome and musually hachward season, with praiseworthy energy and ferseverance ; and to Mr. Bayly I am indehted for the most valnahbe asistance in earrying out the topographical work, ass well as in entering heartily into all the lahor attendant on so arduous a trip across the interior wilds of this Island. He has now become quite expert in the use of the Transit and Michrometer Telescope, and performed alis the river work of the season, which when plotted fo simele, has proved the care and acuracy with which his bearings: tind measurements were taken.

## Physical Fe.tures.

In his report for 1870, the late Alexander Murray, C.M. (i.. F.fi.s.., so fully deseribed the physical, topographical, and seologicil features of the Bay East liver Valley, that there is little to add in reference to this section of the comntry. It is one of the few well wooded valless on the southern slope of the ishand, amd thomgh the timber is not of such large dimensions as on the Northern Shope, and is romparatively limited in extent, yet it is of the ntmost importancer to the inhahitants of Fortunc. Commaigre. Iheimitare and Bay D'Espoir. It is in fact the chof sombe from Whener they oltain their supply of timber, for the ordinary purposes of the fisheries, and for fuel. The prevailing varieties of timber are spruce, fir, tamarack. white and yellow hirch. and a fair






 ambernere or hater, this womblemem to the the fate to which the bulk ol the timber of the latam i- de-timed. In mest easer, the
 unt mafermently tw wilfol eriminalit! on the patt of the trappers. rimbers die. If we wish to pereme what in still hoft of our valu-
 ere it is too late.

The soil in matuy part- of the River Valley and aromal the
 pathere were mat with. wif gend interal hamb, alonge the sides of


 were the comater mone arecosible.


















lifted fraguents of the pareut granitie belt, which striking east and west, forms the central ridge of comntry, lying between Pipestone and Crooked Ponds. Intense and prolonged glacial action, which is apparent on all sides, has been the chief canse of the destrmetion.
'Two remarkable isolated peaks, or tolts, rise abruptly from the general level, at about three miles distant from the westeru end of the lake; standing momments of the source from whence the bonlders were derived. As may be judged from the foregoing desoliption, the comitry around Burnt Pond, presents anything but an inviting proveret ; nevertheless, there is a good deal of very fair timber, especially on the western and northern sides, and on several of the islands in the lake.

Not quite a mile of actual rmming water separates Burnt from Crooked hake. This beantiful sheet of water is nine miles and a half in longth, lut being very narrow, for more than half that distance is somewhat hess in area than Burnt Pond, being lont ten and three quarter square miles. It lies almost eactly east and west Magnetic. The castem end is wide and studded with momerons islands. The country aromd it is for the most part well wooled, lont the soil is generally thin and rocky. Two rivers of comsiderable size flow into this lake from the north and north-east. The former, which is considered the main stream, leads upward throngh a ridge of wooled hills to Island lond; the last of the Larger lakes on the Bay East River proper. It is a thrbulent rocky strem of about two miles in extent. Island Pond is about four miles long ly one and a half wide, and has a smrface area of over six square miles. As its name implies, it is studded with numerons islands. The conntry is again of a very rngeged character, and the timber of inferior quality. The further course of the River for some five or six miles to its head waters, is characterised by a suceresion of small ponds, comected ly short intervals of rmming wator. The north-eastern branch, that which we ascended in our joumey across the comitry, leads upward ly a very broken and rapid stream. through several small ponds to the height of land, alont ten miles ly the comse of the river It passes through a tract of comutry ormpied ly hare or sparsely wooded ridges, extensive harrens and marshes, studided with innumerable ponds, and tarns, strewn ore the smface with gramite and trapean bombers. It
is ilue lume of latre mumians of carihou and onfers weat attractions to the sportintion.

Mendmare Lake on the Little River Water lies about three minde wed from the extrenie western com of Cooked Lake. It is an ratamdinaly she of hater. sureal oul in a serise of intriate

 mumbroing fully one thou-and in all. Ito greatest length is twede
 cosers thirte-fise and ome-fifth splare mikes. The actual water surface. howerer, is probably not more than one half, the remainder being oroupied by the islands. seremal of these islands aserage mearly a spuare mile eaclo. The picturesque heaty of this lake, together with its importance as a prominent geographical feature of the comintry, rather than any economic value presented by its surromulings, induced me to spend a considerable time in obtaining a correct delineation of its remarkable toporraphy. The survey also included a suite of lakes to the west, which might almost be said to form part of Meelpaeg, as they are only separated by a few yards of ruming water. The last of these, called ludops Gospen, ly the Indians, is about six miles long, by an arerage breadth of one mile, and has a surface area of six square miles. This lake is also picturespuely dotted with ishands, and has many intrieate chamets and deep arms extending from either side.

Time did bot permit of following the conrse of Little liser to its outlet. a distanere. in a stralight lines of almont thirte-fise miles. I splemblid view of the combtry in tha and other directions, was.
 tain, a high hame ritse lesing to the somth of Pulops Gospen. The combtry towamb the shothern rathatel, and for a long distance


 comat. eperially mear the head of bay de Lieve.

The Valley of Little River downard is narvow and onty frimed with a small margin of stmed timber. There are fon or fise considerable lakes on the river below where we turned back. rlosely commerted with eath other, and the river itself is probably
one of the largest, if not the very largest, sonth-flowing strem of the island.

A large lake known as Poctasinny Gospen-Wolf Pond-on the Bay de Lievre River, lies abont two miles south of the mountain, and castward, at mome twelve or fourteen miles distant, another long lake, with a conspienous mountain south of it. is known as Ebhermbaeg. This latter belongs to the same water system, and flows into Meelpaeg on the south side.

In the immediate vicinity of Meelpaeg and Pudops Ciospen, the land is low, bommed ly low ridyes of no great elevation, bint in the distance, on eithor side, several elevated ridyes are seell. There is a goorl deal of fair-sized timber arommi the shores of these lakes, and on many of the islands, primeipally sprace, fir and birch. Tanarack, of fair size, is tolerahly ahmolant, hat the soit, for the most part. is th:in and mond encmmberd with homblers.

Fron this. and the smbers of former yens. I am now in a position to definitely state that the entire sonthem watershed of the Island from Fortnie Bay westward to C'ape Ray, present: an almost miform tharacter of have mgred granite ridece. axtemsive marshes, and immmerable lakes and ponds. In a hmbering or arricultural point of visw. its prosperte maly be said to le mil. Set. in a few of the river valle?s, such as the Bay East Liver. and on the shores of some of the deeper indentations of the coast line. small patche of land capable of mising all ordinary veretalses, might he availed of in conjunction with the fisheries. This is done to a considerable extent in Bay. I)Espoir, where several nice clearings were secol. and where food erops of potatoes and hay are raised ammally lye settlers.

Crossing over the height of land between Crooked Lake and Noel Pauls stemely, no aprectiahle difference in the chatracter of the combtry is met with till rearhing within a few miles of the latter river. Here an entire change takes place. The timbere assmmes a more deeided forest asperet, the trees beerome tall and straight. Birch and Pine herin to aseert themselves more decidedly. the harrens and marshes dwimdle down to small isolated patches here and there, and pombls are not nearly of so frequent orconremee of of such large dimensions. Vpand down the shotes of Noel Paul* stealy there is guito a wible strip of flat or ently sopling land. covered with dense forst. Spruce and fir still predom-
inate. lont many extemsive patches of white pine are met with on either side. The pine is not of hrge size, hat quite large enough for handling with facility. Measurements were mule of several sticks, whide ranged from $61 / 2$ to $: 1 / 2$ fret in cirommferemer at the bott. From a height on the western side of the steaty an unbroken vistn of dense heny frost extemels castward and westward, up and down the river valley, and away north toward the main Exploits liver, ins fiar his the combtry is visible. Frequent pateines of interval land of superior quality fringe the shores of the Steady, and eonsiderahle areas of sibsiar land, admirably adapted for hay $r$ rowing, were fomblator the courses of the smatler tributarices. flowing into the steally, or river. below.

In desemdins Nocl lanl:s River to the Fxploits proper, the comitre improves at every turn, and much fine land and timber were oheerved on looth sides of the stream. The sprene and tir were particularl! line mane of the former sticks smitahle for shoonerse spars, were som elose to the lank. White hired is quite abmulant, tamamack of geod size is antered throughout the forest, and aspen heromes tolerally plentifil on the lower reaches of the river. The stramin is a fine one for driving low- when sutficiently suptied with water in sprine and antmm. The land wey the preater part of the valley of Noel Panles River partakes of the same character as that of the main Exphoits valles. fremently deseribes in lormer

 romponed veretahle matter derived from the dense f.erst, the deray of ares. intermixal with this loam, sives it a my fortilo chatmeter, which is amply attested lay the indigenoms forest growth ereryWhere The interal lands, in particolars, which are often of comsilemille extent, ars (amposed of very superior soils, containing lose samb and murh more begetable mattor. They are in fact. a dark ridh mon, (not peat), only requiring a judicions : wistem of drainage to render thom some of the best haterowing lands in the
 proprese of the surver last fall. Of rourse until such time as aceess is afforded to this remote region hey means of romls or a ralway, there must remain in abyanere. It is miseless to talk of utilizing lamis sithated 100 miles from the sea roast, witheit rilleh means of access. eren were they composed of the ridhest soil on the erbhe.

In desemeling the moble lixploits River from the junetion of Nod l'anl's, I was more impresed than ever with the wealth of forest and land fit for settements aloner this beatiful valley. In this combertion 1 ammot do hetter than quote the words of miy predecesorr. Mr. Marray. from his repert of 18:1:
*No wher ant persol, vivither the valley of the Exploits. comblail to be impresed with the manfold adrantanes it presents for the proserotion of industrial pursuits, such iss lumbering and agrientture. With a splendid riser, abmolant timber, and a fortile suil. the rexion that is new a widerness. might. bererg and enterpriar. In som anmeded into a thriving wothement, maintaining a large popmlation."

Shombl the railway sistem now talked of. ever become a fait accompli, and the western extension thereof, traverse this magnificent valley on its course to sit. George's Bay, then we may look forwarl to the fulfinment of Mr. Murray's prognostication, but not till then. It will be fortmate, in the meantime, if the wealth of timber be not destroyed by fire. It inas had many narrow escapes from sueh a calamity in recent times, and indeed a partial fire last June, which swept several square miles near the Radger River, came very near accomplishing the total destruction of the entire forest. I have shown in a previons report for 1882, that surh a calamity did, at one time. overtake the forest of this ralley, nearly two humberl years ago: and that the present growth only replaces a muth lareer one, originally ocemping this fine rexion.

## Deschibpive (ieologit.

Culler this heal I propme to wive in at anemal way the purely aredential fatares af the rock formations met with in jommexing actors the conntry: The phombsimons slates sted ereer finely

 rupging the Bay liat Riser Valley, and on the shores atound bay D'Epar. Were atributed hy him to the Quehere division of the Lower silurian. now more permally inchaded in the Gambrian formation. In their astern extension. these rocks were met with last manoll. on the heal waters of the Bar-me-Nord River of Fortune Biy. and were fomm to hott up asainst the coarse granitic ridge which forms the clain of hills, of which Mount Sylvester is
the most comspianous fenture. In this pertion of their distribution, similar fine silky bluish grey, frequently phombagimons slates, fint
 terstratilied with dark grey hormhlemtie dionites. Were the prevaling characteristics.

Further emst on the hembewatere of the 'lempa Nowa River.

 greissoid rock, apparently intrusive: thongh prohalily in some cases highly metamophosed seedimentary deposits, strike obliquely neross the gemeral tremed of the shat! formation. in a comese abont
 Ereyish hormblembe granite or aneis. One of these great belts
 Pomb. Atter leaving Pipestome [Pond, the conrse of the river towards (ireat Burnt Pond is frequently arosed bexpentes of the more slaty portions of the fomation, partaking of the same general charater of those deseribed, as orembing on the river below. At the outlet from Bame Pome they are interstmatifed with beds of fille alled coarse grabed bhish grey ghoist, with thin slaty divisions. 'This gheiss is chicily emposed of opaque white plart\% and fehdepar. with hack mical disominated in seales throubla the mass The shaty divisions eomsist of the tine peaty on alky bhish green varioty, desmibed before. Itere the rows are in a wortion attitnde, and strike N. $40^{\circ} \mathrm{F}$. marnetic. or ahont $\mathrm{N} .1 ⿷^{\circ} \mathrm{E}$. true. This would aplear to be the extreme westerno or enther north-west-
 No rocks of a similar character were observen further to the w. .trarl. In thir eastern extension, they strike fowards the fander Hiver, where they were recornized in 18:fi, extembling alomer the later from Mirmelis: Brow, to the Burnt IIFll, near the hemtwaters. It would he important to trace this interesting !romp of rovks, and have it definitely maper out hetween these two perint.. The mineralogrical character, especially of the more highly matrnesian portion of the sromp, farors the supposition that prowhetive deposits of valuable mineral smbinmere may he looked for in some parts of its distribution.

A great helt of conse grey armitoid rock. whinh may he a highly metamorphosed portion of the stratitied deposits, extends
fiom divat Rarnt Pond to the north side of Crooked Pomd, giving rise to that extremely ringed and bonlder bestrewn tract of combtry, : mentionem in .he first of this report. 'This salne eranitoid ridge strikes westwen from Crooked Pond, and orrupices
 in the lake. It is of a pale grey color, ant is composed for the most part of coarse dall white ledsepar, "paphe white quart\% allel a little black mien and hormbleme. It varies : Sttle in composition or colne throughont its serike. On the hill-tops immentiately
 ons gheiss, dipping s. $80^{\circ} \mathrm{E} ., \mathrm{m}$ mation angle $6 z^{\circ}$. Poctasimy or Wiolf Momatain, situate somm three miles sonthwad from the ex-
 flagey miancons ofrey gneiss, in a vertion position, at:iking N. $: 0^{\circ}$ E.. malyutice. Ill the comintre, smeth and west from here, has the

 whist arre met with, very similar in aprarance to that deseribed
 Nowa liser. These shists form all the hill-ranges on this side, betwern ('rowked and lshand lomis, moll striking north-materly, exteme up the combtry to the watersherl, ushall! in a vertioal attitude.
 Notermine thoir tome inclination with rertanty. A wille belt of Ere ! tanite or weiss again sureceds the mica sohist to the morth of the watrershed, and extembereros to within a simer di, tance of Nowl lanl:s steals. Ower this tract the sarface is very bamen, and a vas acemmatation of houlders, frefmently of immener size, are strewn exerewhere: while the low of the streme we followed was rlokied with the same material.
 met with till within abont a mike of the river. When some fively laminated lhins ! ! strikins up the walles. Similar slates. with frequent intronsons of trap rock. (opop ont along the shores of the stemles and form a series of hieh helters at the falls. Where they wose the strem whiquely.

On the west side of the steady a permliar pearly slate. passing










 -hores of the hay of Exploits. 'Tleser shates and assamiated limes

 Sixploits balley proper, that there is little dombt of their being

 : to le erntert.

Therew fossils fommat athe month of the Exploits on a form-




 the top of the Lower silmian formatom, men knewn is the ('allo-loro-siburian. Further imentimation of this rewion is likely to

 dismery of othor and higher mearares correpmoline to the mide dar silarialn rows of Sow Wond Islan!, and other parts of the Stat hay of Notre bame. The impertant heariag which the de-



 the disimteration wi whing has gheled the rieh mols for which they are proverbial.

## 16 GEOLOGICAL gURVEY OF NEWFOUNDLAND.

## Hodomic Nigntinces.

 little time comld $\mathrm{l}_{\mathrm{n}}$ dwoted to searehing for minemals, which is more properly the work of the prosperetor, that of the wemberist laring to point ont where the most favorable amblitions prevaled. so as to lo alle to dirert the egremtions of the formere into the right chammels.

Aromel the domes of Bay lotespoir, mal on the valley of the

 all treated of ly Mr. Dheray in his report for 18:0, it is meresary to repat his remarks here.

In the videnity of lipestome lome chromic and magnetice iron ores were mot with, esperially the latter, in such quantities, senttered alount the surface in the shape of anginar lumps nud frasments, as to lend to the supmosition that a large deposit of this
 ritos and permotito. or marintir purites, are frequently met with parsely disemimated, dhefly in yuart\% reins. serpentines of Great variety, some al which wonld make pretty ormanental mor-
 ol" white dorvalalline, grambar. brown weat thering dolonite, are in asombiation with the serpentines. some of these latter might yield

 strong eement. lt is atso employed in the mamfarture of Epeom Salt:- or Sulphate of Magesia. Mr. Muray mentions the presence, anmorst the serpentines here, of a 2 reat amome of pierolite. and freguent fine thin semms of nasestos. The latter form of this mineral is now lecoming of more gemeral use in the mannfacture of ineombustille materials for rootiug purposes, amid also latrely used for stemm-loiler packing, and lining of iron safes, being suitable thereto from its show mondurtion of heat.

Many of the erranites distributed ower this remion are admirally aldated for bulding-stomes of superior guality, and amomgst the mica selists on (rowked Lake, there is murh material suitable for whetstomber 'Ther sambtomes and conelomerates of the Noel Paulos and Exploit: River are also well adipted for bolding purposes, and the value of the limestone deposits on Noel Paul's and



## TIH: MISEM.







 to stute that this interest is growing with the erowth of the Muselloll italf.





 minte of the prople arporally, whe highly appromiate it. the nlwe fighter newestrily imply.

 M1marimm has mo rimul.



 ase nallot ler aromplianed otherwise. The Musemm is. as yet. howarer. very incomplate, experially in the matural history sections. and



 of time. I have no dombt of suceceding in remberint it thoronglaty complete. Our late Gowermor Sir Henry Blake and his armomplish-

 ship arramed with Dr. Gmothor of the Nitural IVistory Depart-

 lav a

 rintes in -


























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Come wherliont somant.

> JAMES P. HOWLA:



[^0]:    *This is not the lake of tha same name mentoomel in last year* report as occurring on the long Harbor River. This is Western Meelpaeg, While the later is called the Eastern Meelpaeg.

