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ICAL SKETCH OF A.P.

to maintain. After Dawson's death the government determined that future directors of the Canadian geological survey should themselves be Canadians. The time had gone by when we needed to send to England or Australia to find a competent director. Scientists, Canada could supply in plenty, and scientists who, by reason of their special knowledge of Canadian conditions, were more fitted for the position than any stranger could possibly be. But a scientist—especially in these days when scientists adopt a specialties—is not necessarily an adspecialties—is not necessarily an ad-ministrator; indeed, it is more often the case that a scientist cannot ad-ministrate at all. When it is taken into consideration that the director of minion as to extract the greatest benefit, both scientific and economic, while not clashing with the work being accomplished by the provincial surveys, it can be readily understood that a first class director must be not only a first class scientist, but, above all, an able administrator.

May 24, 1861, and is believed to have succeeded in getting into more scrapes as a youngster than would make a good record for any two average Canadian school boys—which is a sufficiently large order. He was educated at the public schools, and soon evinced so decided a taste for applied science that he was allowed to make it his specialty. He entered the applied science faculty of McGull in 1878 and passed with first rank honors in natural science in 1882.

With his inborn love of knowledge

was interwoven—as is so frequently the case—an inborn love of knowledge was interwoven—as is so frequently the case—an inborn love of sports. Many of the director's staunchest friends today were his friends or foes of the football field and hockey rink of many years ago. Indeed, hockey was not played at all in Ottawa until introduced by Mr. Low, and some of the most strenuous football matches ever witnessed in that town were won and lost by the Ottawa Football club, which Mr. Low captained for many years.

In 1881 Mr. Low was appointed as a "student assistant" to an exploration party sent by the geological survey to the Gaspe peninsula, and from that time to the present day his work may be followed in the survey's reports. His work—but not his life—for it has ever been an unwritten law with the

rarer and more rare. But in this Do-minion, mostly unsurveyed—except in a very superficial manner—the field geologist is practically useless unless he combine with his knowledge and faculty for observation a splendid constitution, large powers of endur-ance and a spirit of determination that, when it fails, is called pig-head-ed obstinacy, or, when it succeeds, un-swerving persistency.

That in Mr. Low these unusual fac ors were combined became apparent luring his first field work in Gaspe and, on the recommendation of Dr and, on the recommendation of Dr. Ells, who was in charge of the party, he was offered and accepted a permanent position on the survey staff.

card containing "quotations" for the geological survey, and apportioned the following lines to "A. P. 55":

his desire."—Shakespeare.

The hit was a fair one, though it Researches in Labrador
Those who read Mr. Low's reports on his researches in Labrador or his voyage in the Neptune, were prepared to hear of his appointment to the directorship. No one who has read these reports can fail to appreciate that Mr. Low has the two requisites that combine to make an able director—a thorough knowledge of geology and a fine power of administration.

Mr. Low was born in Montreal on May 24, 1861, and is believed to have succeeded in getting into more scrapes as a youngster than would make a good record for any two average Canadian school boys—which is a sufficiently large order. He was educated at the public schools, and soon evinced the public schools a was rather unkind to ascribe the lines to our national poet, who never per-petrated anything like them.

expedition to move, was not Mr. Low's ideal of geological research, and he main party appeared and he was com-pelled to return for food. Delay after delay occurred, and it was actually not until late August that the expedition

If one were to accept the views advocated by certain Canadian papers of the government, one would be made of difficulties oversome of the government, one would be made of difficulties oversome or danger averted. In this reached the Hudson's Bay company's posed to believe that all positions in the civil service are filled by "pull," and only those were the properties of such promotion have one common end in view-graft. So writes the editor of the Geological Survey, in the Canadian Viewen the lines or suspect, from personal can be presented by the properties of such promotion have one common end in view-graft. So writes the editor of the Geological Survey, in the Canadian Viewen the lines or suspect, from personal can be presented by the properties of such promotion have one common end in view-graft. So writes the editor of the geological Survey, in the Canadian Viewen the lines or suspect, from personal can be presented by the properties of such promotion have one common end in view-graft. So writes the editor of the geological Survey in the Canadian Viewen the lines or suspect from personal lines of the geological Survey in the Canadian Viewen the lines or suspect from personal such properties of the geological Survey in the Canadian Viewen the lines or suspect from personal viewen the lines of such promotion have one common end in view-graft. So writes the editor of the geological Survey in the Canadian Viewen the lines or suspect that the profession of the geological Survey in the Canadian Viewen the lines or suspect from personal viewen the lines of the survey of the lake was completed in July 1997 of the lines of the lake was completed in July 1997 of the lake was completed in July 1997 of th

counted on making the average number of miles per day and on living largely of miles per day and on living largely on the country. Soft weather made travel terribly slow, the game perversely refused to be accommodating, even the beavers kept away—and the two white men, with six Indians, found themselves half starved and fearfully weak at Lake Chibougamau, sixty miles from the nearest post.

It became evident that for the whole ministrate at all. When it is taken into consideration that the director of the survey is expected to successfully running for the directorship, and it whom believes that his own brand of science ranks higher in importance than any other; and that one of the portion their work over this huge Dominion as to extract the greatest her. quickly as possible along the trail, in the endeavor to save a few hours. The volunteers accomplished their mission missed the trail when they had followed it for some twenty miles, and were obliged to camp, in view of the danger of missing the rescuers with food. Mr. Low describes the first twenty-four hours of absolute starvation as very painful, but adds, strange. tion as very painful, but adds, strange-

In a net set by some trapper they found a lake trout weighing nearly twenty pounds, and it can be imagined started on his dwn account up the Bersimis river, supposing that the main party—unhampered by field work—would soon overtake him.

He reached Lake Pipmuakin, but no was reached, and Mr. Low took over the first of the many that

together they journeyed up the Berens river from Lake Winnipeg. They found the outlet of Favorable lake, though, if the truth must be told, they found it by accident, and followed it to Severn lake. The season was exceptionally dry; no rain fell for six weeks, forest fires obscured the atmosphere, taking sights became difficult, and sometimes impossible, and the travelers once more found them.

Geological survey?

Quebec Northern Boundary

In 1892 it was determined to may selves on starvation rations. For 300 party to make a forced march meant miles no human being was met nor any game near enough to be shot. At last an Indian and his squaw were sighted in a cance trying to escape notice. When called upon they endearranged that the pary should move as quickly as possible along the trail in long chase ensued, ending, after ten miles' hard paddling, in the couple being caught.

No Food to Spare

Had on Shakespeare

"Low was his name, but great was four days he and the men suffered was only able to supply them with fish permitten, which, for the uninitiated, it is a supply them with fish permitten, which, for the uninitiated, it is a supply them with fish permitten, which, for the uninitiated, it is a supply them with fish permitten, which, for the uninitiated, it is a supply them with fish permitten, which, for the uninitiated, it is the supply them with fish permitten, which, for the uninitiated, it is the supply them with fish permitten, which, for the uninitiated, it is the supply them with fish permitten. pemmican, which, for the uninitiated, it may be explained consists of boiled fish, dried and pounded, stored in birch-bark baskets, with, generally, a rabbit-skin holding fish oil in which to cook the appetizing concoction. Furnished with what, after their privations seamed to be livery the party nished with what, after their privations, seemed to be luxury, the party continued down the Severn River, but in a reach of the stream what they thought was a rapid turned out to be a fall eight feet high, and trouble ensued. The first came actually rode the orest and fell into the river below without upsetting or sustaining any harm. It, however, displaced some loose rocks just before taking the plunge, and the second came striking these rocks just before taking the plunge, and the second cance, striking these, never had a fair chance. The cance was so badly damaged that only with great difficulty did the party succeed in nursing it to Fort Severa, but the precious pemmican was unharmed, and in comparison to that, the rest mattered little

what a meal this made, cooked with flour and bacon.

Early in-May the Mistassini post was reached, and Mr. Low took over charge, the first of the many that have been entrusted to him, from which time he has been regarded as the standard authority on the geology of that huge tract commonly known as the Labrador peninsula.

Of his observations and experience.

At Fort Severn unsuccessful efforts were made to obtain another cance. It was decided to repair the boat as much as was feasible, and coast westward trip, camp was pitched at night on the dreary mud flats that characterize this portion of Hudson Bay. On the second night a storm arose that played havor not only with Mr. Low's tent, but with his intentions.

From 1887 to 1891 Mr. Low continued to add to our knowledge of Canadian geology. At first in James Bayand afterwards in the country north

In 1892 it was determined to map the new northern boundary of the Province of Quebec. It seemed taken as granted that the officer in charge would be Mr. Low, and Mr. Low was duly appointed. He travelled north from Lake St. John to Mistassini, crossed from the Runert river to the crossed from the Rupert river to the Eastmain river, and made the first crossed from the Rupert river to the Eastmain river, and made the first instrumental survey on record of the western portion of that large stream. In the following year he traveled by the same route to the Eastmain river, which he surveyed to its head. Afterwards he began a series of geological explorations in Ungava, the results of which are embodied in a report officially known as Part L. volume VIII. This publication has remained ever since, and seems likely to remain for some time, the standard geological work on the Labrador peninsula.

The party portaged to the head watard on the Labrador peninsula.

The party portaged to the head watard on the islands of Hudson Bay had attracted the attention of American and on the islands of Hudson Bay had attracted the attention of American and the continual magnetic and on the islands of Hudson Bay had attracted the attention of American and the continual magnetic and on the islands of Hudson Bay had attracted the attention of American and the continual magnetic and on the islands of Hudson Bay had attracted the attention of American and the continual magnetic and on the islands of Hudson Bay had attracted the attention of American and the continual magnetic and the magnetic and the same of the continual magnetic and the same of Hudson Bay had attracted the attention of American and the same of the continual magnetic and the same of the continual magnetic and the same of Hudson Bay had attracted the attention of American and the continual magnetic and the same of the continual magnetic and the continual magnetic and the same of the continual magnetic and the continual magnetic and the same of the continual magnetic and the same of the continual magnetic and the same of the continual magnetic and the continual magnetic and the same of the continual magnetic and the continual magnetic and the continual magnetic and t

no huss was made about this journey, no bombast displayed, no magazines published illustrated articles with lurid head lines. Had Mr. Low or his assistant (Captain—now Major—Eaton) died from privation, the newspaper reporters would have craved for copy and fought for photos, but as the exploring party happened to be in exploring party happened to be in charge of an officer who understood the conditions, realized the difficulties, who went prepared for emergency and was fortified with experience, no lives were lost, no pathetic diaries were written, and the newspapers were too wise to fill their columns with dry geo-logical details.

logical details.

Natives Die of Hunger

Mr. Low had intended wintering at Chimo, but a severe famine—to which nearly one hundred natives succumbed—induced him to alter his plans, and the party were conveyed by the H. B. Co.'s steamer to Rigolet. In the following March the survey of the Hamilton river was commenced. Twelve extra natives had been engaged, and each man—white and native—drew 200 pounds on a sled. Progress was necessarily slow, but after some days the spot to which canoes had been sent was reached, and the extra men were sent home. Though the Grand Falls are not the largest or the most power-

spectator feels to throw himself into the gorge, and had laughed. He describes his feeling, however, not as if he had any desire to throw himself over the cliff, but as if someone behind was pushing him, and, as happens to all who view this extraordinary sight, it was with difficulty he was prevented from precipating himself into the gorge, under the belief that he was being violently shoved. The water has a sheer drop of 312 feet, but the total fall of the river here is over 700 for some days and then wrote feet, and it is estimated to give nine

feet, and it is estimated to give nine million horsepower. Mr. Low has pointed out the vast possibilities of this neglected power, which, there is little doubt, will some day supply the greater part of the province of Quebec. Excellent Iron Ore

It was after having mapped the head waters of Hamilton river that Mr. waters of Hamilton river that Mr. Low reported large quantities of excellent iron ore along the valley of the Ashuanipi river and deposits of labradorite in Lake Nichikum. Labradorite is probably the most perfect and certainly the most beautiful building stone of which we have any knowledge, and in the days to come, when the valley of the Hamilton river is being worked for iron, this wonderfully the valley of the Hamilton river is the valley of the Hamilton river is being worked for iron, this wonderfully streaked feldspar will be quarried in

enormous quantities.

The expedition returned by way of the Romaine and St. John rivers, having accomplished what was probably the most interesting survey ever made by the Canadian or save there. by the Canadian or any other govern-

ers of Big River, and down it to Lake Nichikun. Thence a traverse was made to Kaniapiskah lake; the Kaniapiskau river was followed, and subsequently the Larch and Koksoak rivers, to Chimo on the coast.

No fuss was made about this journey, no bombast displayed, no maganey, no b

The man that meddles with cold iron." In this case the evils were complicated for difficult as it is to join the geological survey, it is almost impossible once you play the prodigal, to be again embraced by those stony arms. Expedition to Polar Regions

Mr. Low, however, nade a detailed report on the non-posits—he located 8,000 acres—of the Nastapoka islands. His report has never been made public, but it is understood that though the ore was both plentiful and of first class quality, he considered the economic conditions too considered the economic conditions too again and the pluck that had pulled him through so many narrow escapes daine to his rescue and after a month's anxious waiting the survey heaved one make the control of the pluck that had pulled him through so many narrow escapes daine to his rescue and after a month's anxious waiting the survey heaved one considered the economic conditions too unfavorable for profitable mining. Nothing, perhaps, is more to Mr. Lows credit than the fact that the geological survey jumped at his offer to rejoin the service, and he was immediately marked as one of the few possible candidates that cauld be writered.

for some days and then very tor of the Times, asking

ensure accuracy by indu ists to write, and in this ca ticle was supplied by the w Labrador explorer, Mr. A. Voyage of the Neptune

The report of the voyage of tune, blue book though it was so materially in style and from most other blue books government decided to publish edition de luxe. Seven thousan edition de luxe. Seven thousand were issued, but the demand great that before the wholesale sellers could be supplied the edition had run out.

Among the many conclusions arrived at in the "Voyage of the Neptune" the following are probably the most important, and the reasons that led to their adoption are very forcibly argued Among the many conclusions arrive

1. The discovery of the north pole, xcept as a matter of sentiment, is absolutely useless. 2. With plenty of good luck, Northwest passage can be made. will never be a commercial route.

3. The Hudson bay route for wheat to Europe is not only practicable, but is bound to be adopted in the near

future.

4. Unless the government take strong measures, the Eskimos are a doomed race.

In 1905 the Quebec government re-

nested the Dominion government to natruct the geological survey to make a report upon the mineral areas in the ake Chibougamau district panying the request was a rider to the effect that of all the field officers in the survey, Mr. Low would be the most acceptable. Mr. Low, accordingly, was sent. His report could scarcely be considered a very comforting document or those deeply interested in Chibaugamau mining, but the author express ed the opinion that further prospecting and cheaper transport may develop and cheaper transport may develop something really profitable in copper and asbestos. In April, 1906, Mr. Low was appoint-

ed director of the survey, and immediately started on a stretch of hard

The illness has left its mark. The remarkably youthful appearance that characterized the director is no longer

Has slightly pressed its signet sage."

But, fortunately, this is all. The learness of thought is still there, the ability to decide quickly what line to take and the determination to take and stick to it are still there; above all he still retains the friendship and respect of the staff-who, as one of them remarked the other daytheir fingers to the bone to do old Lov

delay occurred, and it was actually not until late August that the expedition at last got away. The natural consequences ensued. Blizzards caused frozen hands, frozen feet, food ran short and the game that had been counted on failed to appear. The party lived for some time on starvation rations, each out with an occasional beaver and the entire expedition in which the entire expedition has believe much untold. In the space of this short sketch it is impossible to do more than allude to the incidents of his travels, but one fact regain at some form mentioning. On May 24, and the same fate at beful the unfortunate indians last of his travels, but one fact regain same route, and whose fate was made to Fort Severn with instructions to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly if he could, but to procure a beat of some sort honestly of the with Mr. Low frest and native dath matives had been engageu, and not only with Mr. Low and native facts man, while and native dath matives had been engageu, and not only with Mr. Robert Fulton and the Introduction of Steam Navigation

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