

THE NOR-WESTER.

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Devoted to the interests of Alberta and the North-West generally.
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This Mail Route was established
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and has been the only mail line
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at moderate charges. Address all
mail matter for points west of Cal-
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Fort McLeod and surrounding country will
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SEASON 1884.
A SPLENDID GREY HORSE, "YOUNG"
"PERCHERON NORMAN,"
Suitable for getting a load for this country. Stands
at S. H. May's farm, Elbow River. Terms \$25.00
season; \$4.00 each service. Apply to KING & CO
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ROYAL MAIL LINE.
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CALGARY AND FORT McLEOD

Leaving Calgary on Thursday at 8 a.m.
Arriving at Fort McLeod on
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KING & COMPANY,
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Tomatoes,
Bananas,
Pine Apples,
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A full line of confectionery and Fancy bi-
cuits always in stock.

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Manufacturers and dealers in
STOVES
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All kinds of
ROOFING AND JOBBING
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East Bank of Elbow.

Orders left at Thos. Botwell's Hardware
store, will receive immediate attention.
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R. J. OGBURN, PROPRIETOR
STEPHEN AVENUE, OPP. P.O.
A Young Girl
Desires a Situation in a Hotel or Store. Has had
two year's experience and very good references.
Silver-Holt City not objected to. Apply by letter
only to A. B. C., office of this paper.

NOTICE
A Sitting of the Second Judicial District Court, Cal-
gary Division will be held on the 25th day of June,
A. D. 1884. Court will open at 10 o'clock a.m. on that
day.
T. DOWLING,
Clerk of the Court.
Calgary, May 13, 1884.

NOTICE
Notice is hereby given that the late firm of
Wilkinson & Lindsay, hotel-keepers at Calgary,
and of the assets of all the partnership estate
and effects, and also of their individual estate and
effects, in trust for all their creditors, either individually
or as members of said firm, and all persons having
claims against the said partnership, or either of
said individual members of the said firm, are requested
to send in their claims, receipts, and particulars of
their claims, with vouchers attached, to the undersigned
at Calgary, Solicitor for the said Trustee, on or before
the 31st day of June, A. D. 1884.
And notice is hereby given that after the said date,
said firm, and the individual assets of the members of
said firm, among the parties entitled thereto, having
regard only to the claims of which notice shall have
been given, and that he will not be liable for the as-
sets, or any part thereof, so distributed, to any person
or persons of whose debts claims he shall not have notice.

H. BLEEKER,
Solicitor for Trustee
Dated at Calgary, April 16th, 1884.

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NEW WATCHMAKER
C. W. DAVIDSON, of the firm of M. In-
cense & Davidson, Jewellers of Portage la Prairie,
Manitoba, has opened an office at Post
Office, Calgary, with complete stock of watches,
clocks and jewellery, repairing of English,
American and all kinds of Watches.
—SATISFACTION GUARANTEED—

McINTYRE & DAVIDSON,
PORTAGE LA PRAIRIE, MANITOBA
AND
CALGARY

MINERALOGY,
SOMETHING OF INTEREST
For Amateur Prospectors.
PAPER NO. III.
(SELECTED.)

Crystals: Crystallization. The regular
forms which minerals assume are called
crystals, and the process by which their
formation takes place is termed crystalliza-
tion. Crystallization is the same as solidi-
fication; whenever a liquid becomes solid
there is actual crystallization. Under favor-
able circumstances, regular crystals may
form; but very commonly the solid is a
mass of crystallized grains—as is the case in
stagnant water, or a loaf of white sugar. In
the case of the marble crystallization com-
menced at myriads of points at the same
instant, and there was no room for any to
expand to a large size and regular outline.
When, on the contrary, the process is slow,
single crystals often increase to a large size.
We may understand this subject of crys-
tallization by watching a solution of salt, as
it evaporates over a fire. After a while, if
the process is not too rapid minute points
of salt appear at the surface, and these con-
tinually increase. They are minute cubes
when they begin, and they increase regularly
by addition to their sides, till finally they
become so heavy that they sink. In other
cases, if the brine is boiled away too rapidly,
a mass of salt may be formed at the bottom
of the vessel, in which no regular crystals
can be seen. Yet it is obvious that the same
power of crystallization was at work
and failed of yielding symmetrical solids,
because of the rapidity of the evapora-
tion. Crystals of salt have been found in
the beds of this mineral a foot or more in
breadth, which had been formed by natural
evaporation; and the whole bed is in all
cases a crystalline in the structure of the salt.
However, finely the salt may be ground up
as that for our table, still the grains, were
crystaline in their origin and are crystal-
line in structure. This subject may be further
illustrated by many other substances. A hot
solution of sugar set away to cool will form
crystals upon the bottom or upon any other
object which is in contact with it. These
will continue increasing till a large part of
the sugar has become crystals. It is a com-
mon and instructive experiment to place
the framework of a basket or some other object
in a solution of sugar, and as the sugar
crystallizes, it will fill the basket, and the
crystals glistening with their many polished
faces. Again, if a quantity of sulphur be
melted it will crystallize on cooling. To
obtain distinct crystals, the sulphur should
be broken as soon as formed, and the
liquid part within be poured out; if the
cavity when cold will be found to be stud-
ded with delicate needles. The crust in this
case is as truly crystallized as the needles
themselves. In the hardening of a crystal-
line substance, as soon as the solid part
and the liquid part within be poured out;
if the cavity when cold will be found to be stud-
ded with delicate needles. The crust in this
case is as truly crystallized as the needles
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AND
CALGARY

FISH CREEK.
GLEN'S FARM.
A Picturesque Spot.
(CONTINUED FROM LAST ISSUE.)

He is a sufferer to a considerable extent by
the depredations of these animals. The
present spring they have destroyed five or
six calves. As it is impossible to deprive
the Indian of his dog, it seems the only way
to prevent this nuisance will be to hunt
down the Indians keeping on their reserves.
This regulation strictly enforced will do
away with the dog nuisance. This is really
an important matter which the department
of Indian Affairs will have to deal with
vigorously as the country begins to settle
up. Mr. Geddes has the fullest confidence
in this district. He thinks the lease system
should be modified to a considerable extent,
and that the country is not suitable for
vigorous agriculture as the country better adapted
for mixed farming than is the district
right here. From what we could see we
came to the conclusion that Mr. Geddes was
speaking as a success and vision. A man
self has succeeded he ought to be good auth-
ority.

After leaving Mr. Geddes' house, we were
kindly directed by him to the Fort McLeod
trail, and so on we had, we reached this
great broad route the rain began to descend
with positively good will. Mr. Geddes said
his estimate had our thanks for courtesies
and had our wester, is most happy to mention
the hospitality. But the harder the rain came
down the quicker old matter of fact-tracked
it along so that we reached Mr. Glen's farm
in no time, admiring with the best of us in
the world the young man there that it was
indeed a "wet rain," but it was a welcome one
to the country. Mr. Glen's house is a log one,
well finished outside and we were not a little
disappointed to find that Mr. Glen was
absent. He had gone in with a load of hay
and would not return till night. It was
too bad, but a fire was lighted in the great
box stove in the large sitting room and we
steamed out the rain drops as fast as we
could. It was however, not very long be-
fore Mr. Glen returned and so we were at
home.

The distance from Calgary to Mr. Glen's
is about eight miles. His location is on
Fish Creek and it is needless to say that
an "Indian" and prospector like Mr. Glen
know how to select a claim which has
shown promise. To say that the valley of the
Fish is picturesque conveys only a common
place idea after all. The benches which
flank the valley in gentle succession and
whose tops bear ample testimony to the
richness of the soil give the lining touch
to the picture. It was on top of one of
these benches that the Marquis of Lorne
stood when he was on his visit to this part
of the Dominion, and spoke the memorable
words which are to people.
"This is the best of English soil
as has ever come to Canada. Then we en-
tered into conversation with Mr. Glen, and
found him to be an intelligent man who has
seen active service in various parts of the
world, especially in Mexico and in the
Columbia, the very man above all others
that the Nor-wester delights to interview.
Almost the first question that we put to
Mr. Glen was:

"How about summer frosts?"
Said he, pointing to two cards hanging on
the wall, those will tell you all about it.
They were taken down and found to be a
careful thermometer record of the tempera-
ture beginning with July 1883 and ending to
date, on the 27th July 1884, the lowest tem-
perature indicated 29° or the freezing point.
On the 22nd of August in the night, the
temperature went down to 28 giving 4° of
frost, and on the 31st of the same month it
went down to 30 or 2° of frost. This is the
sum total of the summer frosts. The winter
was only instantaneous. No real damage
was done. The potatoe tops were touched
and that was all. These observations
were taken by Mr. Shaw, an English set-
tler who lives within a few hundred yards
of Mr. Glen. The coldest day last winter
was the 11th of January when the mercury
went down to 35, but during the same 24
hours it had ranged to 40 above. A notice-
able feature is the great range which the
tempera- there are scarcely six days in suc-
cession when the mercury has continued
below zero. There is no continuous cold
such as may be experienced in Manitoba,
Manitoba will understand these items.
That said Mr. Glen "is the best answer I
can give you, though you will find that a
few persons come to Calgary, stop a few
days and know more about the climate and
the country in a few hours than those who
have spent years in it. Then said Mr. Glen
let us take a walk into the garden. We will
see how things are going. The rain had ceased
somewhat and so into the garden went
Mr. Glen Mr. Larkin and the Nor-wester.
And such a garden! Fifteen acres of it,
surrounded by a palisade composed of
sawed six feet high. There is no hard law in
Alberta, the farmer and the gardener must
fence if he wants to keep his crop intact.

The peas were up two inches looking as
vigorous as young pine shoots. The cal-
bage plants were beginning to look
grown for transplanting and the tomatoes
were an inch high. The seed had been
scattered in the ground and they had sprung
into life as they were. Radishes were al-
ready springing up promising great results
for the next fortnight, and the onions had
commenced to come up here and there as if
they too were not afraid of putting in too
early an appearance and the soil was equal
to anything that I have seen in the Red or
Assiniboine valley. True it did not appear
that rank grassy substance found in the
thick soil of the Red River valley, but there
was just sand enough in it to retain the heat
which was furnished the soil during the day.
Nothing could be more promising than Mr.
Glen's garden. Away on the bench to the
south was the farm. He has about forty
acres, and the wheat and the oats and the
barley looking most promising.

CHALLENGE.
To the Editor of the Nor-wester—
Dear Sir—I hereby challenge "Little
Plume" to a race from one to four miles for
from one hundred to five hundred dollars—
race to take place anywhere between Win-
nipeg and Calgary or in either city if chosen.
I will run him no further as I think he is as
good a man as ever I ran with for a long
distance. I would like to hear from Little
Plume or his backers as soon as possible.
Yours truly,
GEORGE HAYING,
Winnipeg, Man.

Bow River Coal and Mining Co.
Hereafter all Communications in regard to this Co
should be addressed to the undersigned.
GEO. A. WINTON

We have removed our large stock of General Merchandise to our new premises situated in the city.