NOR'-WESTER TUESDAY, MAY 13, 1884.

MINERALOGY SOMETHING OF INTEREST

To Amateur Prospectors, PAPER NO 3.

(SELECTED.) In pursuing the subject of minerals there are various qualities presented for our the particulars. The nave is study. We observe that stones or minerals by 24, there is to be an out have color ; they have hardness in different the vestry I1 x 9 feet 6. There is to 1 degrees, from being soft and impressible by the nail to the extreme hardness of the dia mond ; They have weight ; they have lustre 25 x 17 feet 6. It will accomodate 20 from almost a total absence of the power of effecting light to the brilliancy of a mirror. Some are as transparent as glass others are aque. A few have taste. These are the most obvious characters and characters to which the mind would at once appeal in distinguishing species.

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found in the internal structure of the minerola. On examining a piece of coarse granite, the contract has been awarded to we find that each scale of mica may be split by the point of a knife into thinner lcaves. Messrs: A. McCoskrie & Co. Here is evidence of a peculiar structure, church is completed it will called cleavrage, and wherever mica is found this peculiarity is constant. The feld spar in the same rock, if examined with care, will be found to break in certain directions with a smooth or nearly smooth surface, showing a lustre approaching glass though THEMETROPOLISOF somewhat pearly. It is true of feldspar also thatthis cleavage is a constant character for the species as regards direction facility. In nearly all minerals this kind of structure more or less perfect in quality ma be distinguished. In a broken bar of ire the irregularity of the the grains proceed from this cause. In granular marb although the mass as a whole has no s structure, the several grains if attentively examined will be seen to present a disting cleavage structure and consequent angula form, In finer varieties the grains may so small that the characters cannot be obs ved ; or again the texture of the mass may be so compact that not even grains can distinguished. This cleavrage then, is a peculiarity internal structure. It is intimately connect ed with another fact-that these sa minerals often occur under the form of so regular solid with nest plane surfaces ; and are furnished with a symmetry and perfec tion which art would fail to unitate. forms are their natural forms, and ever ineral has its own distinct system of for The beauty of a cabinet of minerals arises to a great extent from the variety of forms and high finish of these gems of nature's workman-hip. The mineral quartz sometin occursin crystals consisting of two pyriamida united by a short six sided prism, and they have generally the transparency and almost brilliancy of the diamond whose name the bear in con mon language. The diamonds central New York and many other localities are of this kind. In other cases a large surface of rock sparkles with a splendid grouping of the pyramidal glassy crystals We might draw other illustrations fro almost all mineral species. But this w suffice to show that in addition to the physical characters above mentioned, there ar other dependent on structure, which afford distinction of species, apparent both in ex ternal form and internal cleavage. St other characters are derived from subjectin species to the action of hest, or to acidsan other reagents. One mineral when heate melts, another is infusible or only fuses the edges, another evaporates. By such trials, and others hereafter to be desc

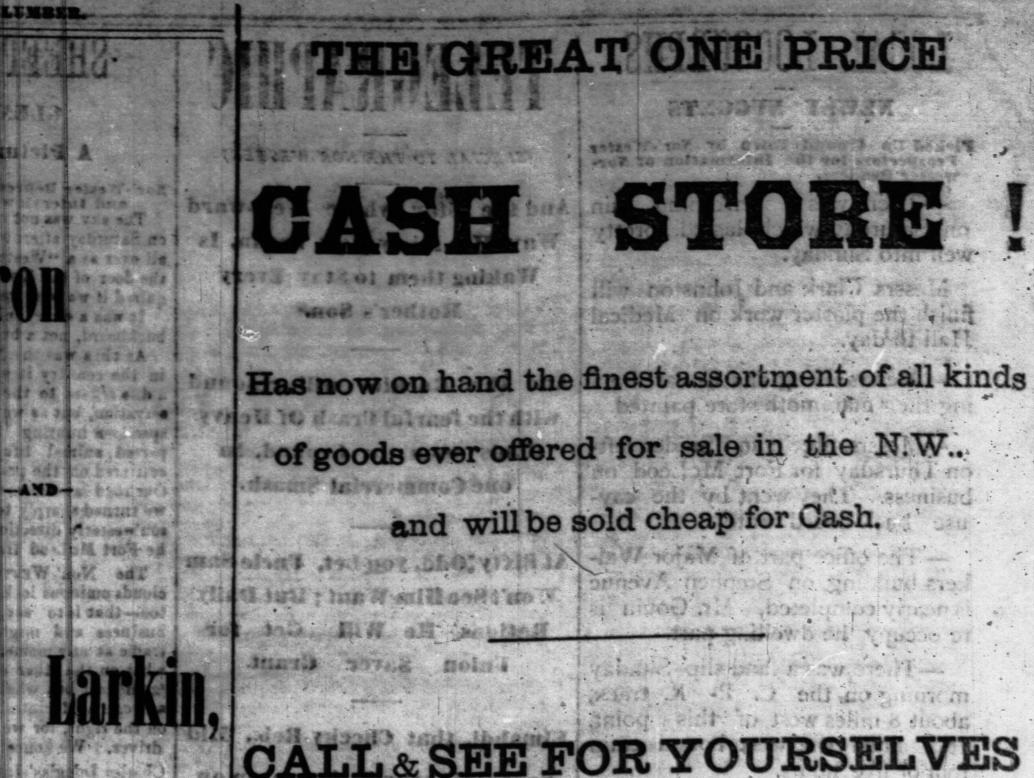
THE EPISCOPAL CHURCH Plan of the Proposed Edifice. his searches after ligh', came across Mr. Me Coskrie the well known architect, and was invited by Mr. McC. to take a seat the latter's snug little office. Mr. McCo krie produced a large plan and then h proceeded to give the NOR'-WESTER SCOT organ chamber and practice room th size as the vestry. The chancel persons. The nave and chancel ceilings are

to be open up to the roof. The boards are to be three jointed. church is to be fitted up with seats ornamental ends. There is a rose with in the east gable and a triplet lince light These too are filled with stained glass. Other characters of equal importance are whole is surmounted with finals. Fourteen tenders were put Smith. The plans have been prepared finest in the North-west.

Its-Situation-Extent-Bnildings-Popula-

Artic Circle, some appreciation will be felt for the climate at least. When the traveler ages the country near and around Medicine Hat he enters a more agreeable climate, and every fifty miles west from that point makes a very perceptible difference. The winters of this district are neither so long nor so evere as those of the Red and Asciniboine alleys. Spring commences from two to three weeks earlier, and the fall is two or three wesks later. The prevalence of westerly inds, Chinooks, ameliorates the climite and enders winter not only agreeable but positi-

An application for a town charter has already been made to the North-west Council and in a few weeks the town will have an incorporated existence, thus giving it iditional status and importance, find. I what The people of the town are already moving in the matter of bridging the Bow in order to mre the Edmonton; trade. A new bridge has been creeted across the Elbow, thus unitthe old town with the new, and the Canadian Pacific Railway Company and the North-west Land Company have contributed \$250.00 each towards the construction of another bridge across the Elbow to connect with the Fort McLeod trail. The population of Calgary is already about 1000, which Is rapidly increasing. Two through trains from the far east are now running weekly. Calgary, though not the end of the C.P.R. is the terminus of the road. West of this point the road is in the tractors, > Tolind, and Are anon a sende a



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This one year old town is situated near confluence of the Bow and Elbow rivers i the district of Alberta, within sight of the great Canadian Alps whose wreaths of eternal snow glisten in the sunlight and afford the traveler a never failing source of wondermen and pleasure. The town site is beautifully lai out in a regular natural basin formed by the wide bend of the Bow and Elbow rivers, both of which here well deserve the name of Bow The valley is here from a mile to a mile and half wide.

tion and Prospects.

To the east is the natural opening through which the Canadian Pacific enters the basin and to the west is a similar opening through which the train emerges on its westward course. With the exception of these two gaps the immediate view is obstructed by bol magnificent and continuous bluffs, escarpment exposes various kinds of valu valuable stone which will yet be a source wealth to the town. To one accustomed the dead level of the eastern prairie, or even to the rolling prairie of the Assiniboine, the valley of the Bow affords a most agreeable variety, and the traveller who enters it fo the first time cannot help uttering exclamations of admiration. It is no exaggeration say that it is one of the finest town sites i North America. It has already earned the distinction and it is well deserving o But if the local scenery is varied and ming, the view to the west where rise those majestic cliffs which have been often ter the back bone of North America is grand in thle extreme. The great cones show them seves here and there beyond the peaks of the foot hills, and pierce the sky with their m clad sides and apices.

The Canadian Mettehorn and the Devil' Head, the latter a curiously shaped mountain of a dark hue-rounded like a dome are plainly visible on any clear evening from Stepnet Avenue, and when the telescope is brought upon their icy cones the eye is furnished with a treat of which no eastern city can boast Calgary has already assumed the dimensions of a city. There are at least three hundred buildings of all kinds in the place.

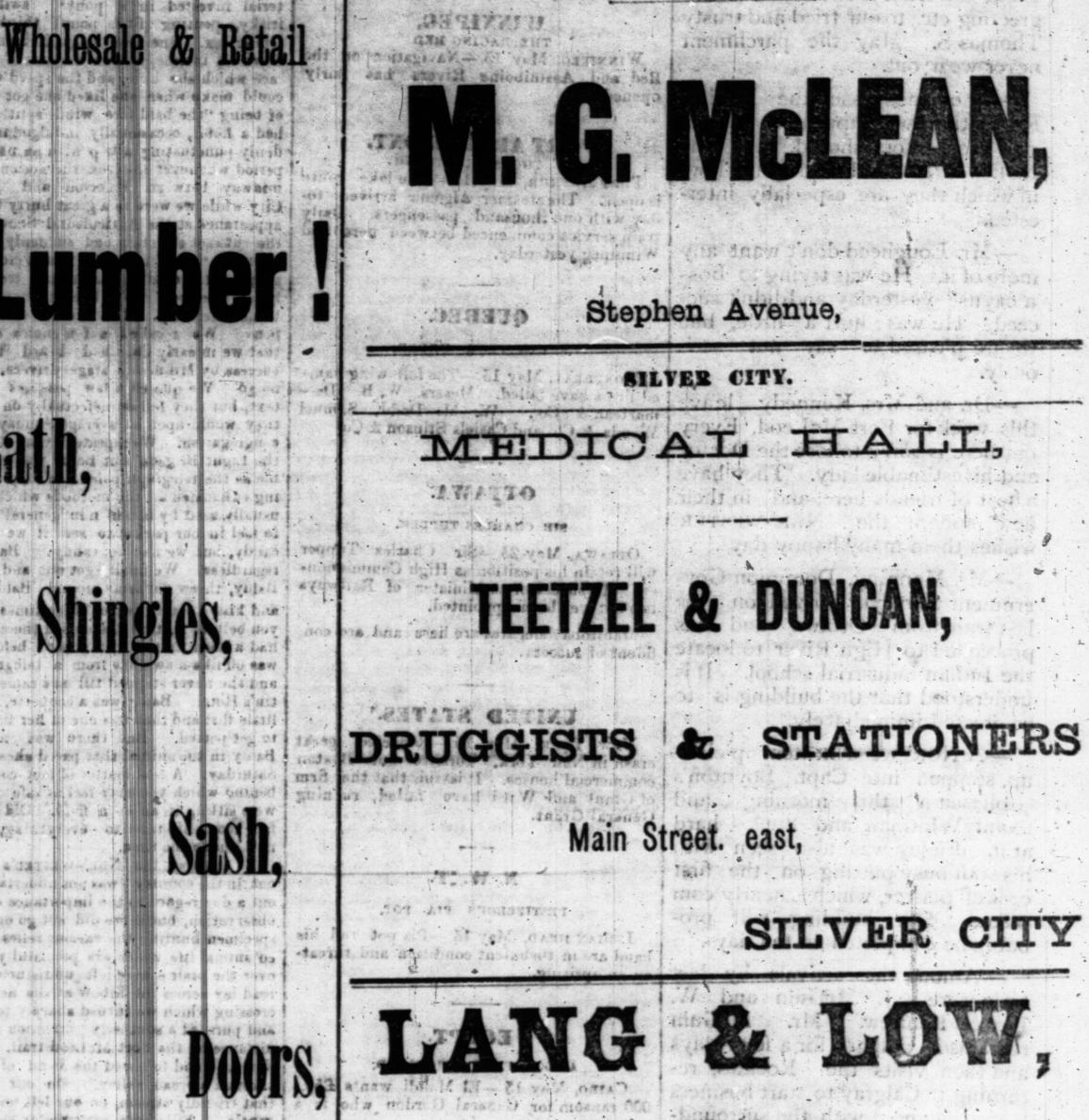
institutions of the place.

With the development of treasures Calgary promises to begome the Den. ver of the Canadian North-west, Indeed in is already designated by that name. The waters of the Bow and the Elbow abound in trout, the mountain and brook variety which afford excellent sport to the citizen and tonrist. The waters are clear and eautiful the streams being mountain fed and clear as ceystal The proprietors of the town are the Norih-

west company the Government, the railway Company, Mr. Stewart and some others. Lots have been sold principally on building terms and a rebate allowed for building with in a certain time. There are already about twenty stores in this place, three or four hardware stores, two stationer stores and the Non'-WESTER Printing Office, and through the columns of the NOR'WESTER, which is published every Tuesday, will be furnished to thousands of eager castern people the most valuable information concerning this most promising young city. The North-west Laud Company bave just completed a handoffice on the north side of Stephen Avenue which is to be occupied by the efficient and gentlemanlike agent, Mr. Ramsay. That Calgary is to become the capital of the proposed province of Alberta there can be no doubt. A great future is before it, and it has all the conditions of a sound and substantial commonwealth.

FROM OUR CONTEMPORARIES.

(Friendly,) We have received the initial number of the NOR'-WESTER, a new twenty four column folio weekly, published at Calgary by Warner and Co. The prospectus states that the NOR'WESTER will support the principles of the conservative party, but the publishers wisely promise not to weary its readers with "political disquisitions from party standpoint," or with "the sing-song twice told political tales which have been ned into their ears from the craille up wards." The existence of two weeklies in . town a few months old affords a striking comment upon the sapid growth of North-



we study minerals in a different way, ascertain their chemical character. mode of investigation more minutely pursued leads to a knowledge of the constitution of minerals, a branch of study which belongs properly to analytical chemistry. The results are of the highest importance to mineralogists.

he west side, though the store of the It is perceived therefore that the learner may (1) examine into the peculiarities of Hudson's Bay Company that of Messrs. King structure among minerals, (2) he may attend to the physical characters depending on light and the well known firm of I. G. Baker & hardness and gravity, (3) he may acquaint | Co., traders, occupy ground at the east end and when most perfect make but a poor entering around the depot-

mineralogist. But when the science is viewed in the light of chemistry and crystal- a Presbyterian Church and a Roman Catholic that direction will now lie between the lography it becomes a branch of knowledge and the English Church people are arranging NOR'WESTER and the Reguna LEADER .perfect initself, and surprisingly beautiful for a handsome structure to be erected this Brandon MAIL. in its exhibitions of truth. We are no longer summer. There are already several hotels which furnish accomodation to the weary dealing with pebbles of pretty shapes and tints, but with objects modeled by a Divine traveller. hand, and every additional fact becomes to the mind a new revelation of His wisdom. and who takes a great interest in the place is In the study of this science the learner will be introduced first to the structure of

minerals. The subject is treated of under its usual name, crystallography.

GRAND LODGE OF ALBERTA. 1 -

F. & A. A. Masons,

Installation of Row Elver Lodge Bow River Lodge which has hitherto been working under a dispensation was regularly instituted 5th inst. The Grand Lodge of Manitoba having issued the necessary authority.

The officers for the ensuing year are an follows :--Bro. Geo. Murdoch

G. L Newman

Wor. Bro C. N. Campbell

" McKenzie

" Turnbull }

" A. F. Martin

Major Walker

Mortimer

" / Jas, McNeil

Carney

are the headquarters of the Mounted Police. west communities. . We trust that the there being a force here of at least 150 men. The first town site was laid out on the side of the Elbow, close to where that river joins the Bow, but the location of the railway depot about a mile further west changed the and province. but to the whole ol the North business centre of the place, and most of the West. -- Moose Jaw NEWS. east enders moved over in the night time to

Many Happy Returns.

The NOR'WESTER, a new journalistic venture at Calgary, has reached our sanctum. & Co. are still on the east side of the river, The sheet is edited by Mr. Elliott, late of the press of this city, and contains, the vim himself with the effect of heat and chemical though on the west side of the Elbow. These usually committed to paper by the pen re-agents-the chemical characters. These firms are the largest in the place and as may of this veteran journalist. The paper starts are three sources of distinctions giving be supposed do an immense business. They under fair auspices, and promises to be an mutual aid, and a knowledge of all is neces- have selected ground on the west side and able exponent of Conservative views in the sary to the mineralogist. To learn to dis- they intend to build. The barracks of the far west. We wish the publication long tinguish minerals by their color, weight Mounted Police occupy a beautiful situation life and every measure of happiness which is and lustre is so far very well, but the on a rising ground at the east end, but it is said to be occasioned by a full view of the accomplishment is of a low degree of merit, evident that the heart of the business life is rugged peaks of the Rockies at that far hub. There is pleuty of room up there for There is already here a Methodist Church, poetic pens, and the battle for supremacy in

Unfriendly.

The NOR'WESTER, a new candidate for public favor in Calgary, has been published. The proprietors, Warner & Co., were in the Capt. Boynton, an Englishman of means jobbing business in this city for some time. erecting on Stephen Avenue a theatre which The editor is, we believe, Mr. Elliott, late is to cost several thousand dollars. The of the Blade-at least we judge so from the building is in a fair way of completion and it tone of the articles in which we recognize Purchasers of bids fair to become one of the successful the nand of our ancient and valiant foe. He loses no time in proclaiming his political

A noticeable feature is the exist- principles, the salutatory containing the ence of bar rooms and saloons, and the total announcement that the NOR'WESTER will be absence of the liquor traffle, and to meet an a Conservative newspaper. This will be of ntoxicated person is a rarity. Hop beer is vital interest to the people of Calgary and he most intoxicating beverage. This is due | beyond, they have lots of time to discuss the to the probibitory law in forceand is producing | relative merits of Grit and Tory. We expec a quiet and orderly population. It is perhaps to hear of our friend publishing a newspaper the most cosmopolitan place of its size in the n the Great Slave Lake and Mackenzie Dominion. There is a western freedom about | River country, printed in the Indian lanit that is most agreeable since drunkeness is guage, with a prominent intimation that the a feature which does not enter into the tcu | paper is Conservative. -- Thanks (?)

ensemble of every day life. In Manitoba and other heathenish coun-The soil near and around Calgary is a light | tries they put chimneys together brick after 8, W. sandy loam, A magnificent country stretches | brick from the bottom upwards. In Calgary J. W. to the north and north-east along the Red a 'brick' chimney can be trotted around on BRANDON Chaplain Deer River, towards which are already flock- a man's shoulder, and it is no uncommon Treas. ing large numbers of settlers. When it is thing to see the tinker trotting along with a Secy. borne in mind that the great frozen belt chimney under each arm. These 'flues' 8. D. which stretches from Lake Superior to the are made of galvanized tin or iron. The top J. D. Saskatchewan exercises no influence on this is rectangular and painted red with white region, that the winters are mild, with only lines to represent the mortar. When the Stewards. an occasional cold day, that there is none of contrivance isplaced on the top of a house that terrible winter severity which renders it looks just like a real chimney which the D. of C. Manit be in winter synonomous with the | good housewife has kept clean, J. G,

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rant for such newspaper enterprise and that both its journals may render service not only to their promising town and province, but to the whole of the North INOULDINGS Importers & General Merchants Prospector's and Miner's Supplies, SILVER FRANK C. LANG. notice basis City Hotél, Silver Andrew Oleson, Proprietor. Specia Inducements

Lots

Cameron & Larkin,

Carload THIS hotel is elegantly furnished throughout, and every attention is given to its guests. Special attention paid to the comfort of ladies and their families.

BOLT CITY.

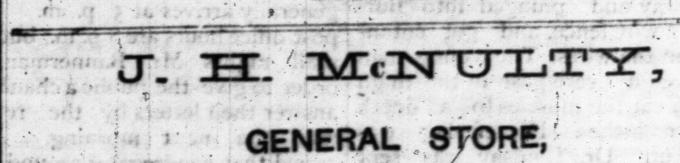
Late McDougall & Co.,

CITY

BERT. C. LOW.

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GORMAN