

**CIHM  
Microfiche  
Series  
(Monographs)**

**ICMH  
Collection de  
microfiches  
(monographies)**



**Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques**

**© 1998**

## Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming are checked below.

- Coloured covers / Couverture de couleur
- Covers damaged / Couverture endommagée
- Covers restored and/or laminated / Couverture restaurée et/ou pelliculée
- Cover title missing / Le titre de couverture manque
- Coloured maps / Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black) / Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations / Planches et/ou illustrations en couleur
- Bound with other material / Relié avec d'autres documents
- Only edition available / Seule édition disponible
- Tight binding may cause shadows or distortion along interior margin / La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure.
- Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from filming / Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.
- Additional comments / Commentaires supplémentaires: **Pages 7-10 are missing.**

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

- Coloured pages / Pages de couleur
- Pages damaged / Pages endommagées
- Pages restored and/or laminated / Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed / Pages décolorées, tachetées ou piquées
- Pages detached / Pages détachées
- Showthrough / Transparence
- Quality of print varies / Qualité inégale de l'impression
- Includes supplementary material / Comprend du matériel supplémentaire
- Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image / Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure, etc., ont été filmées à nouveau de façon à obtenir la meilleure image possible.
- Opposing pages with varying colouration or discolourations are filmed twice to ensure the best possible image / Les pages s'opposant ayant des colorations variables ou des décolorations sont filmées deux fois afin d'obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below /  
Ce document est filmé au taux de réduction indiqué ci-dessous.

										<input checked="" type="checkbox"/>												
10x		12x		14x		16x		18x		20x		22x		24x		26x		28x		30x		32x

The copy filmed here has been reproduced thanks to the generosity of:

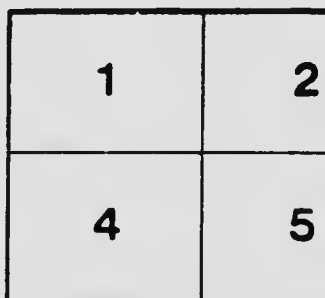
British Columbia Archives and Records Service.

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shell contains the symbol  $\rightarrow$  (meaning "CONTINUED"), or the symbol  $\nabla$  (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:



L'exemplaire filmé fut reproduit grâce à la générosité de:

British Columbia Archives and Records Service.

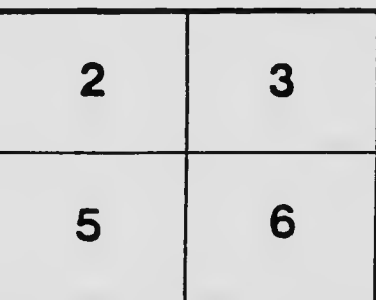
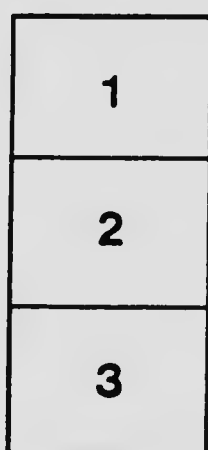
Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole  $\rightarrow$  signifie "A SUIVRE", le symbole  $\nabla$  signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents.

Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.



MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street  
Rochester, New York 14609 USA  
(716) 482 - 0300 - Phone  
(716) 288 - 5989 - Fax

NWP  
971.35  
W314

*Incomplete*

**PROSPECTUS**

**Water Tight Dipper  
Dredge & Mining  
Co., Ltd.**

*(Non - Personal Liability)*

**Room 33, Lineham Block  
Calgary, Alberta,  
CANADA**





Wa  
and

(N o

Inc

AUT

Fi

33 L

Preside

Vice-P

Secretar

Director

Mining

Banker

Solicitor

---

---

# Water Tight Dipper Dredge and Mining Company, Ltd.

---

---

(Non - Personal Liability)

Incorporated under the Laws of the Province of Alberta,  
registered in the City of Edmonton,  
in the said Province

**AUTHORIZED CAPITAL - \$500,000**  
500,000 Shares par value One Dollar

Filed with the Registrar of Joint Stock Companies for the Province  
of Alberta at Edmonton the 14th day of March 1911

REGISTERED OFFICE:  
33 Lineham Block, - Calgary, Alta.

## Officers and Directors :

*President :*

J. W. MOORE                      Calgary

*Vice-President :*

E. J. WORTH                      Hosmer, B. C.

*Secretary-Treasurer :*

T. H. SHAW                      Calgary

*Directors :*

F. JACOBIE                      Calgary

S. M. PLETCH                      Calgary

F. HUNT                      Calgary

L. ARSENAULT                      Edmonton

*Mining Engineer :*

JULIUS RICKERT                      Calgary

*Bankers :*

ROYAL BANK OF CANADA

*Solicitors :*

STEWART & CHARMAN

---

---



---

**PROSPECTUS**  
OF THE  
**Water Tight Dipper Dredge  
and Mining Co., Ltd.**  
(Non-Personal Liability)

---

### **Geography**

The property is known as the Souther Leases No. 96 and 97, situated on the Quesnelle River, Cariboo District, British Columbia, and is distant one hundred and ninety-two miles due North of Ashcroft, which is at present the nearest railway.

The nearest important village is Quesnelle Forks, which is situated immediately east and adjoining the property.

### **History of the Property**

The property was purchased from the original prospector, by Mr. C. H. Souther of Boston, who placed upon the ground what is known as the Ladder Type Dredge, at a cost of about \$180,000.00. This dredge was operated for a short period and was found utterly useless owing to the frailty of the working parts of the machinery which had been made as light as possible on account of the poor facilities for transportation. A short time after the commencement of work, Mr. Souther was taken ill and died. The property then reverted to the Estate, from whom it was purchased by Mr. R. T. Ward, who disposed of it to the present company.

### **Accessibility**

From Ashcroft station, on the Canadian Pacific Railway, this property is reached over the Cariboo trail for a distance of one hundred and fifty-eight miles, thence over the Quesnelle road for a distance of thirty-four miles. From Ashcroft to the mines it costs for freighting two

---

dollars and fifty cents per cwt. The proposed line of the Vancouver and Howe Sound Railway is in the immediate vicinity of the property. Work is now rapidly being pushed on this railway, which, on its completion, will reduce freight charges to a minimum.

### **Titles**

The titles to the property is vested by Government lease in the Water Tight Dipper Dredge and Mining Company. The following is the description and commencing at a point known as Quesnelle Forks, thence in a westerly direction for a distance of ten miles. For this lease the rental to the government is \$20.00 per mile per annum in perpetuity.

### **Pay Gravel in Sight**

In the river there is about one hundred million cubic yards of gravel in sight having an average value of \$1.27 per cubic yard in gold. Parts of this gravel has given assays in Platinum of twenty-two ounces to the ton of black sand.

### **Dredging Plant**

The gravel of this property for about five miles is suitable to be worked by The Water Tight Dipper type of dredge with suction pumps of which the Company own the patents for the United States and Canada. The other five miles can be operated successfully by the bucket or the ladder dredge. A dredge of the Water Tight Dipper type will cost ready to run, taking into consideration the machinery already on the ground, \$75,000. The same amount will be required for the bucket dredge. The approximate cost of handling this gravel will be four cents per cubic yard.

---

## Power

It is the intention of the Company to lease from the Government of British Columbia about ten thousand hydraulic horse-power converting this into electrical energy and supplying not only our own two dredges but the surrounding properties and villages.

## Length of Season and Capacity of Dredges

The length of season for placer mining in the Cariboo District is approximately two hundred and twenty days per annum.

The capacity of the Water Tight Dipper Dredge, the dipper of which has a capacity of four cubic yards, combined with the suction pumps, will handle four thousand cubic yards per day of ten hours.

## Will a Gold Dredge Pay Big Dividends? Examine

The bucket or ladder dredge will have a capacity of about three thousand five hundred cubic yards per day of ten hours.

The investment in a medium size dredge will be about as follows:—

100 acres of land at \$100 per acre.....	\$10,000.00
1 5-cubic foot Gold Dredge complete..	75,000.00
Blacksmith shop, tools, etc.....	5,000.00
Cash for operation and contingencies	10,000.00
Total.....	<u>\$100,000.00</u>

This 5-foot dredge will dig on an average 45,000 yards per month, therefore per year 45,000 by 12 would be 540,000 yards. If this ground is up to the Oroville average, it will be worth 17 cents per cubic yard.

This dredge will handle the ground on an average—year in and year out—according to the Report of the State Mining Bureau, for 6.72 cents per cubic yard; therefore the value of the

ground 17 minus 6.72 would be 10.28 cents, and the earnings will be 540,000 by 10.28 would be \$55,512.00. Allowing \$7,500.00 for sinking fund, we have for dividends \$48,012.00, which would amount to 48 per cent. on our capital invested.

If the ground is 30 feet deep, we would dredge about 10 acres per year and our land would last some 10 years.

---

Vancouver, B.C.,

February 11th, 1911.

To the Water Tight Dipper Dredge and Mining  
Co., Ltd.

GENTLEMEN:—

According to your instructions, I have examined your property on the Quesnelle River, District of Cariboo, Province of British Columbia. I beg to say that this property is a paying proposition, and as you have one hundred million cubic yards of gravel, the average values of which I find is \$1.27 per cubic yard, I would suggest that you immediately put on the property Moore's Water Tight Dipper Dredge to be operated by electrical energy, derived from the water power from the South fork of the above river, where you can obtain 100,000 horse power, if necessary, which will be sufficient to operate several dredges, and also supply power and light to companies operating on this river, as shown by plans and prospectus.

I would recommend that further capital should be raised to place the dredge on the property immediately. You have about seventy thousand dollars worth of machinery on the property at the present time, most of which can be used to build the first dredge, and can be applied in the construction of Moore's Patent Water Tight Dipper Dredge. Any capital invested in your Company will mean a multiple of not less than one hundred.

---

I also suggest that as your property is so rich there will be no further necessity of raising the capitalization of the Company. It will be necessary to raise One Hundred and Sixty Thousand Dollars or thereabouts to build and operate the two dredges, supply electrical machinery, etc.

Respectfully submitted.

JULIUS RICKERT, M. E.,  
Consulting Engineer.

---

To The Water Tight Dipper Dredge and Mining  
Company, Ltd.

DEAR SIRS:—

It was some sixteen years ago that I first became actively engaged in dredging for gold. My first experience was on the Thompson and Fraser Rivers with the old fashioned Dipper type of dredge.

This was not by any means a water-tight dredge and we had to use rubber packing for the dipper door in order to make it hold water. Every hour or so the rubber would wear out and had to be replaced. Also once in a while the door would fly open at the wrong time.

These troubles caused me at first to think how I could construct a dredge which would be water-tight and which would require no doors. With such primitive machinery as we had at our disposal success was not easy to attain and after numerous attempts we were forced to quit. My next experience was on Kanaka Bar some eight miles from North Bend. I accepted the engagement in Vancouver without having seen the outfit and I was somewhat dismayed on arriving on the scene of operations to find that the dredge consisted of a big rake on a large boom which was supposed to drag the boulders up to the scow where a suction pump would extract the nuggets. I was convinced before we started actual work that our efforts would be useless, and the result proved my estimate to be correct.

## Results and average values of River sampling covering leases 96 and 97

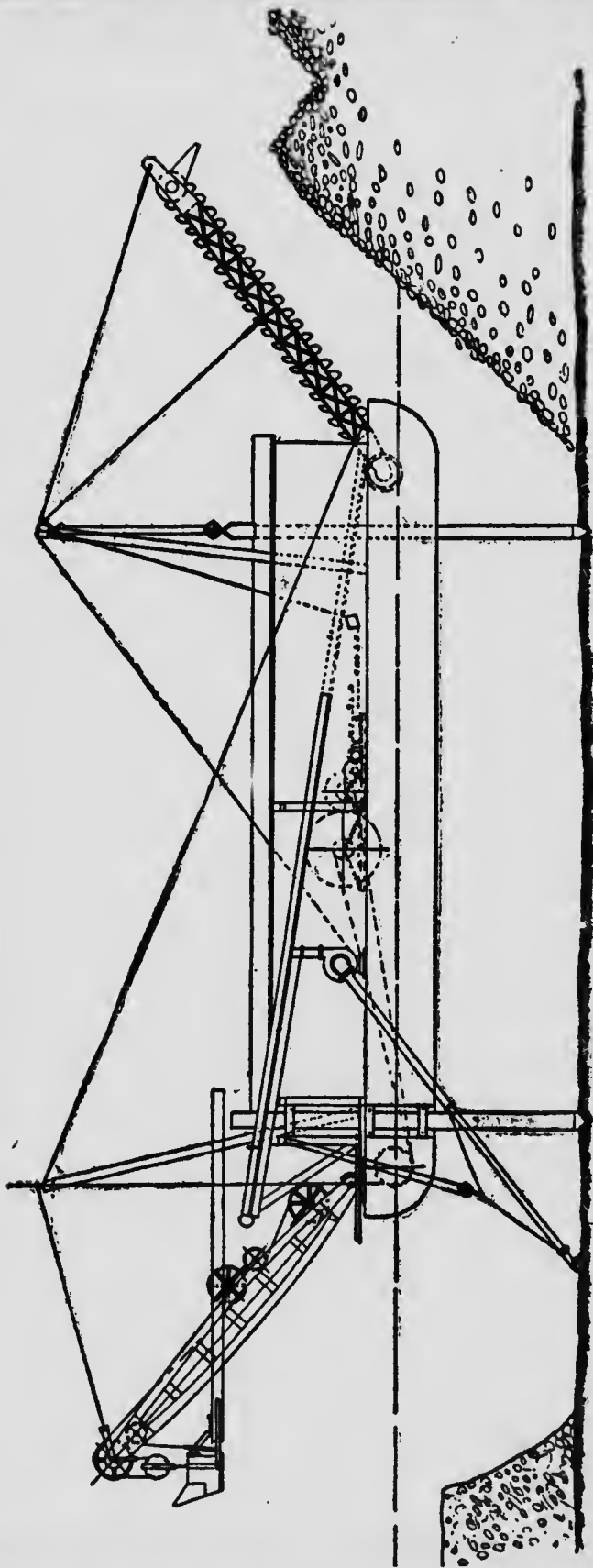
No. of Station	Nature of bed rock	No. of Cubic Feet of gravel washed	Grs. gold worth \$17.36 per oz. 3-8/10 cts. per grain	Value per Cubic Yard
1	Clay	9	8.68	.93.74
2	Sand	18	34.72	1.87.54
3	None	27	33.5	1.20.60
4	Clay	36	15.5	.41.85
5	None	27	36	1.29.60
6	Clay	12	8	.64.80
7	Clay	27	24	.86.40
8	None	13	6	.44.65
9	None	9	4	.43.20
10	Clay	54	141.5	2.54.70
11	Clay	4	15	3.64.50
12	Clay	13.5	19.5	1.40.40
13	None	12	5	.40.50
14	Clay	36	86.5	2.35.55
15	Clay	4	4	.97.20
16	Clay	13.5	9	.64.80
17	Clay	16	45	2.73.00
18	Clay	8	9	1.09.45
19	Clay	6	2	.32.40
20	None	13	12.5	.90.04
21	None	18	14	.75.60
22	None	12	21	1.70.10
23	None	27	83	2.98.80
24	None	18	19.5	1.05.30
25	None	27	21	.75.60
26	Clay	13.5	12	.86.40
27	Clay	13.5	14	1.00.80
28	None	13.5	9	.64.80
29	Clay	13.5	2.5	.18.00
30	None	13.5	0.5	.03.60
31	None	13.5	4	.28.80
32	None	13.5	10	.72.00
33	None	0	0	.0
34	None	20	3	.14.58
35	None	20	50	2.43.00
36	None	13.5	2	.14.40
37	Sand	13.5	66	4.75.20
38	None	13.5	1	.07.20
39	Clay	13.5	18	1.29.60
40	Clay	27	138	4.96.80
41	None	27	11	.39.60
42	Clay	13.5	15	1.08.00
43	None	13.5	39	2.80.80
44	Clay	13.5	14.5	1.04.40
45	Clay	13.5	21.5	1.54.80
46	Clay	13.5	18.5	1.33.20
47	Clay	13.5	12	.86.40
48	Clay	20	23	1.11.78
49	Clay	13.5	9.5	.68.40
50	Clay	13.5	9.5	.68.40
51	None	13.5	15	1.08.00
52	Clay	13.5	86	6.19.20
53	Clay	27	2.5	.09.00
54	Clay	13.5	2	.14.40
55	Clay	13.5	13	.83.60

69.85.67

69.85.67—55—\$1.27 per cubic yard.

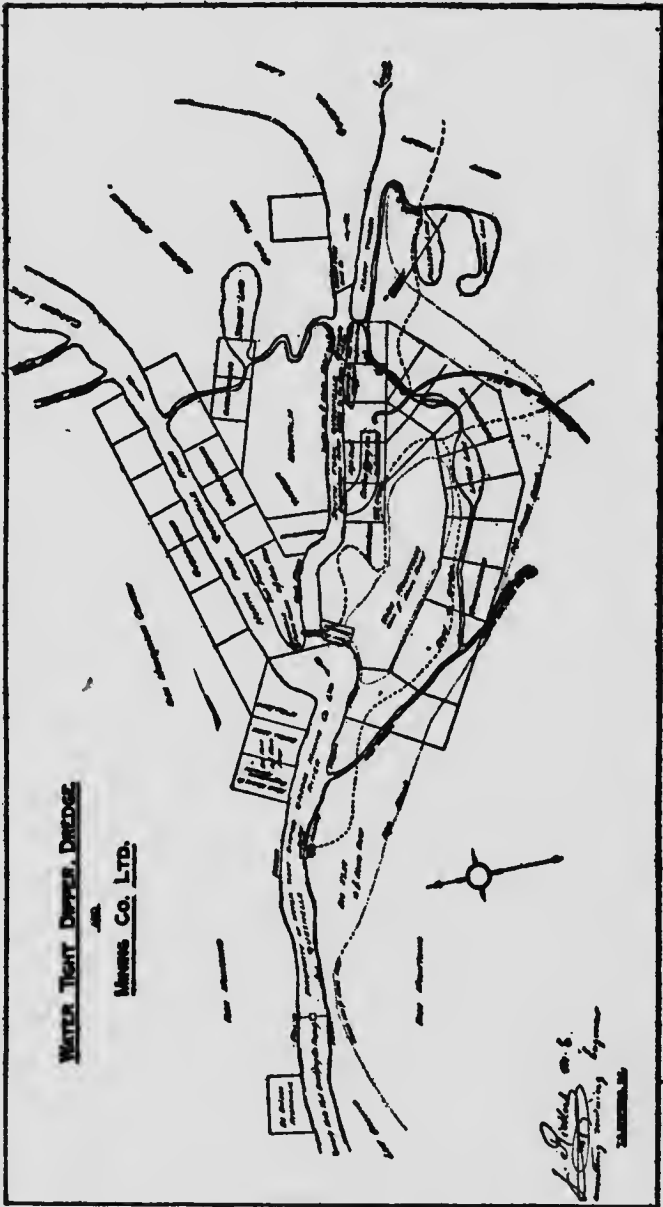
(Signed)

J. F. Brown, Explorer.



Moore's Water Tight Dipper Dredge

# PLAN OF PROPERTY



W. T. D. D. & Mining Co.



---

**MEMORANDUM OF ASSOCIATION  
OF  
WATER-TIGHT DIPPER DREDGE AND MINING  
COMPANY, LIMITED.  
(Non-Personal Liability)**

1. The name of the company is "Water-Tight Dipper Dredge and Mining Company, Limited."

2. The registered office of the company will be situated in the City of Edmonton, in the Province of Alberta.

3. The objects for which the company is established are:—

(a) To purchase, take on lease or otherwise acquire, any mines, mining rights, and metalliferous land in the Dominion of Canada, or elsewhere, and any interest therein, and to explore, work, exercise, develop and turn to account the same. To crush, win, get, quarry, smelt, calcine, refine, dress, amalgamate, manipulate and prepare for market, ore, metal and mineral substances of all kinds, and to carry on any other metallurgical operations which may seem conducive to any of the company's objects. To buy, sell, manufacture, and deal in minerals, plant, machinery, implements, conveniences, provisions, and things capable of being used in connection with metallurgical operations, or required by workmen and others employed by the company. To construct, carry out, maintain, improve, manage, work, control, and superintend any roads, ways, tramways, railways, bridges, reservoirs, water courses, aqueducts, wharves, furnaces, saw-mills, crushing works, hydraulic works, electrical works, factories, warehouses, shops, and other works and conveniences which may seem directly or indirectly conducive to any of the objects of the company, and to contribute, substitute, or otherwise aid to take part in any such operations.

(b) To acquire gold mines, mining rights and auriferous land and any interest therein. To search for, win, get, quarry reduce, amalgamate, dress, refine and prepare for market, auriferous quartz and ore, and other mineral substances, (whether auriferous or not) and precious stones, and generally to carry on any metallurgical operations which may seem conducive to any of the company's objects. To buy, sell, refine and deal in bullion, specie, coin and precious metals.

(c) (1) To develop the resources of and turn to account any lands and any rights over or connected with land belonging to or in which the company is interested, and in particular by clearing, draining, fencing, planting, cultivating, building, improving, farming, irrigating, grazing, and by promoting emigration and the establishment of towns, villages and settlements. (2) To buy, sell, import, export, manipulate, prepare for market, and deal in merchandize of all kinds, and generally to carry on business as merchants, importers and exporters. (3) To carry on business as miners, storekeepers, farmers, cattiebreeders, stockmen, carriers, provision preservers, mechanical engineers, builders and con-

tractors. (4) To undertake, transact, and execute all kinds of agency business, and also trusts of all kinds.

(d) To undertake obligations and liabilities of every kind and description, whether on behalf of the company or others, upon such terms as may from time to time be considered desirable in the interests of the company.

(e) To draw, accept or endorse bills of exchange, or issue promissory notes, and to give guarantees or undertakings of any kind.

(f) To borrow or raise money for the purposes of the company's business.

(g) To mortgage and charge the undertaking and all or any of the real and personal property and assets of the company, present and future, and all or any of the uncalled capital for the time being of the company.

(h) To pay all expenses of and in connection with the incorporation, or in or about the promotion of the company, and obtaining the subscription of the share and debenture capital thereof, and all commissions and other remuneration to brokers, or others for procuring or guaranteeing subscriptions for, or for underwriting, placing, selling, or otherwise disposing of any of the shares, mortgage debentures, debentures, debenture stock, or other securities or property of the company, or of any other company, or assisting so to do, or for procuring or obtaining settlement and quotation upon any stock exchanges, or any such shares, capital or securities.

(i) To guarantee the payment of the principal of or the dividends or interest on any stock, shares, debentures, securities, loans and undertakings, in any case which the directors consider it expedient.

(j) To do all such things as are in the opinion of the directors incidental or conducive to the attainment of the above objects, and so that the word "company" throughout this clause shall be deemed to include any partnership, association or other body of persons, whether incorporated or not, and whether registered or domiciled in the Dominion or elsewhere.

(k) To apply for, purchase or otherwise acquire any patents, or interest in patents, concessions and the like, conferring any exclusive or non-exclusive or limited right to use, or any secret or other information as to any invention which may seem capable of being used for any of the purposes of the company, or the acquisition of which may seem circulated directly or indirectly to benefit the company, and to use, exercise, develop, or grant licenses in respect of, or otherwise turn to account the property, rights or information so acquired.

(l) To construct, improve, maintain, develop, work, manage and sell any patents purchased or acquired, which may seem directly or indirectly to advance the company's interests, and to contribute, to assist, and to take part in the construction, improvement, maintenance, working, management and selling thereof.

(m) To remunerate any person or company for services rendered, or to be rendered, in placing or

assisting to place or guaranteeing the placing of any of the shares, in the company's capital, or any debentures or other securities of the company, or in or about the formation or promotion of the company, or in the conduct of its business.

(n) To establish and support or aid in the establishment and support of assosns, institutions, funds, trusts, and conven ences, calculated to benefit employees or ex-employees of the company, or the dependents or connections of such persons, and to grant pensions and allowances, and to make payments towards insurance, and to subscribe or guarantee money for charitable or benevolent objects, or for any exhibition, or for any public, general or useful object.

(o) Upon any offer of shares to the public for subscription to pay to any person on consideration of his subscribing or agreeing to subscribe, whether absolutely or conditionally, for any shares in the company, or procuring or agreeing to procure subscriptions, whether absolute or conditional, for any shares in the company, a commission not exceeding the usual commission.

Provided that nothing herein contained shall be deemed to confer upon the company any powers to which the jurisdiction of the Legislature of the Province of Alberta does not extend, and particularly shall not be deemed to confer the right to issue promissory notes in the nature of bank notes; and all powers in the said memorandum of association contained shall be exercisable subject to the provisions of the laws in force in Alberta, and regulations made thereunder in respect of the matters herein referred to and especially in respect to the construction and operation of railways, telegraph and telephone lines, the business of insurance, and any other business with respect to which special law and regulations may now be or may hereafter be put in force.

4. The liability of the members is limited.

5. The capital of the company is \$500,000.00, divided into 500,000 shares of \$1.00 each.

We, the several persons, whose names and addresses are subscribed, are desirous of being joined into a company in pursuance of this Memorandum of Association, and we respectively agree to take the number of shares in the capital of the company set opposite our respective names.

---

Names	Addresses	Description	Number shares taken by each subscriber
Avila Clause, Edmonton		Engineer	(1) one
L. Arsenaull, Edmonton		Broker	(1) one
Theo. E. Landry, Edm'ton		Miner	(1) one
Total.....			3

---

DATED this 7th day of September, A.D. 1910.

Witness to the above

Signatures:

Trothe T. M. Bebly.

---

---

**EXPENSES**

The amount, or estimated amount, of preliminary expenses is \$1,000

---

**COMMISSION**

The amount of commission allowed to selling agents is ten per cent

---

---



