

These beds are only noticeable at low water periods in the river and samples taken from these beds gave the following returns:-

ANALYSIS OF GYPSUM FROM CURRAN PROPERTY

CaO	32.80	32.90	32.00	33.00
SO ₃	44.98	45.98	45.51	46.90
H ₂ O	21.35	21.01	21.60	19.41
MgO	.70	none	none	0.21
Fe ₂ O ₃	trace	trace	trace	0.06
SiO ₂	none	trace	0.5
Insoluble	0.25
	<u>99.83</u>	<u>99.89</u>	<u>99.16</u>	<u>99.83</u>

indicating the quality and purity of the gypsum that may be expected to be found underlying your claims.

The main gypsum outcrops on the river sides have been examined and shown to be 20 feet in thickness above the low water table in the river and from the results of old drill holes in this area, it is reported that the drills have penetrated to a depth of 47 feet and ending in pure white gypsum. It is impossible to estimate the true thickness of these beds without the aid of further diamond drilling.

In further testing of deeper drill holes in the area, it has been reported that the gypsum beds extend to the 350 foot horizon.

A table of formations relative to the area was previously made by a prominent geologist and I am quoting his table as follows:

TABLE OF FORMATIONS RELATIVE TO AREA

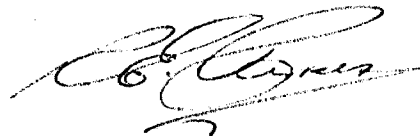
<u>System</u>	<u>Formation</u>	<u>Correlation</u>	<u>Thickness</u>	<u>Lithology</u>
Pleistocene			10-150'	Marine Clays, Boulder Clays, Interglacial Clay & Muskeg
Middle Devonian	Abitibi River	Onandaga	65'	Grey fossiliferous Limestone
Lower Devonian	Moose River	Salina	350'	Limestone & Gypsum
Precambrian				Granite

In my previous reports, I have recommended that a series of diamond drill holes be placed and the locations placed on maps, these holes

to be put down to test the true depth and sizes of the gypsum beds in this area and, in all probabilities, these holes will have to be 300 feet in depth. This drilling could be undertaken during any season of the year as there is ample water at hand at all times and due to the handy accessibility from the railroad, which passes along the westerly quarter of the claims, and also due to the abundance of small timber available on the claims. Winter drilling operations can be successfully carried out at very little extra cost.

I enclose the required maps for filing with the Ontario Government Department of Mines and any further information that may be required, I will be pleased to submit.

Yours very truly,

A handwritten signature in cursive script, appearing to read 'R.E. Parkes', written in dark ink.

R.E. Parkes,
Mining Engineer.



421145E0001 63A.315 CARROLL

020

Atlas Gypsum Corporation Limited,
Suite 26,
377 St. James Street West,
MONTREAL, Quebec.

Attention: The President and Board of Directors

Dear Sirs:-

Re: Geological Survey on Mineral Claims
No. S-90176 to S-90189 inclusive,
Townships of Canfield and Carroll.

The writer was in charge of a geological survey crew during the latter part of September and first part of October 1955. Some 8 miles of linecutter was done on these claims and I am attaching the employment record and occupation of the men employed on this project, showing a total of 204 days, that would represent the expenditure of the survey on these claims which may be recorded as assessment work.

The main outcrops of gypsum occur along both sides of the Moose River immediately below the Moose River Crossing bridge at mile 142 of the Ontario Northland Railway. These outcrops are very extensive and, from the dip and strike of the beds, there is every evidence that the gypsum will completely underlay the glacial mantle on the company claims, therefore due to a heavy glacial mantle covering the bedrock throughout the areas of the claims, it was impossible to locate any gypsum occurrences within the claim area.

In my report on these properties, it has been estimated that an overburden condition of between 8 and 10 feet and in places as high as 25 feet will be encountered on these claims. This overburden consists mostly of a silt and boulder clay on the surface immediately overlaying possibly 5 to 10 feet of breccia gypsum in which large crystals of selenite and a conglomeration of angular pieces of limestone and shale appear. Immediately underlying this type of overburden, the upper beds of the gypsum are mostly of a brown-greyish colour, in places the beds being anywhere from 1 to 5 feet in thickness. This gypsum is coarsely crystalline with star-shaped spots of selenite 1 to 5 inches in diameter throughout.

Immediately underlying this type of gypsum, a pure white granular or finely crystalline snow white gypsum is encountered in beds from 4 to 10 feet in thickness.

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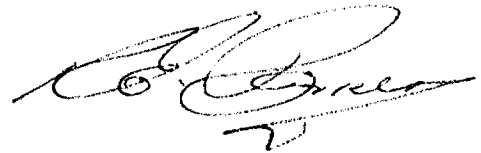
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Yours very truly,

A handwritten signature in cursive script, appearing to read 'R.E. Parkes', with a small flourish underneath.

R.E. Parkes,
Mining Engineer.

Ontario Northland Railway

Claim No. 4

Claim No. 14

Claim No. S-5306

North Channel Moose River

Gravel Bar

South Channel Moose River
Claim No. T-19451

Water level

30
20
10
0
-10

ATLAS GYPSUM CORPORATION LTD.
Cross Section B - B across Claim Area

Horizontal Scale 1" = 400'

Vertical Scale 20' = 1"

To accompany Report Mid-North Engineering Services Ltd.
October 20, 1955.

GEOLOGY

Gypsum Outcrops

Overburden

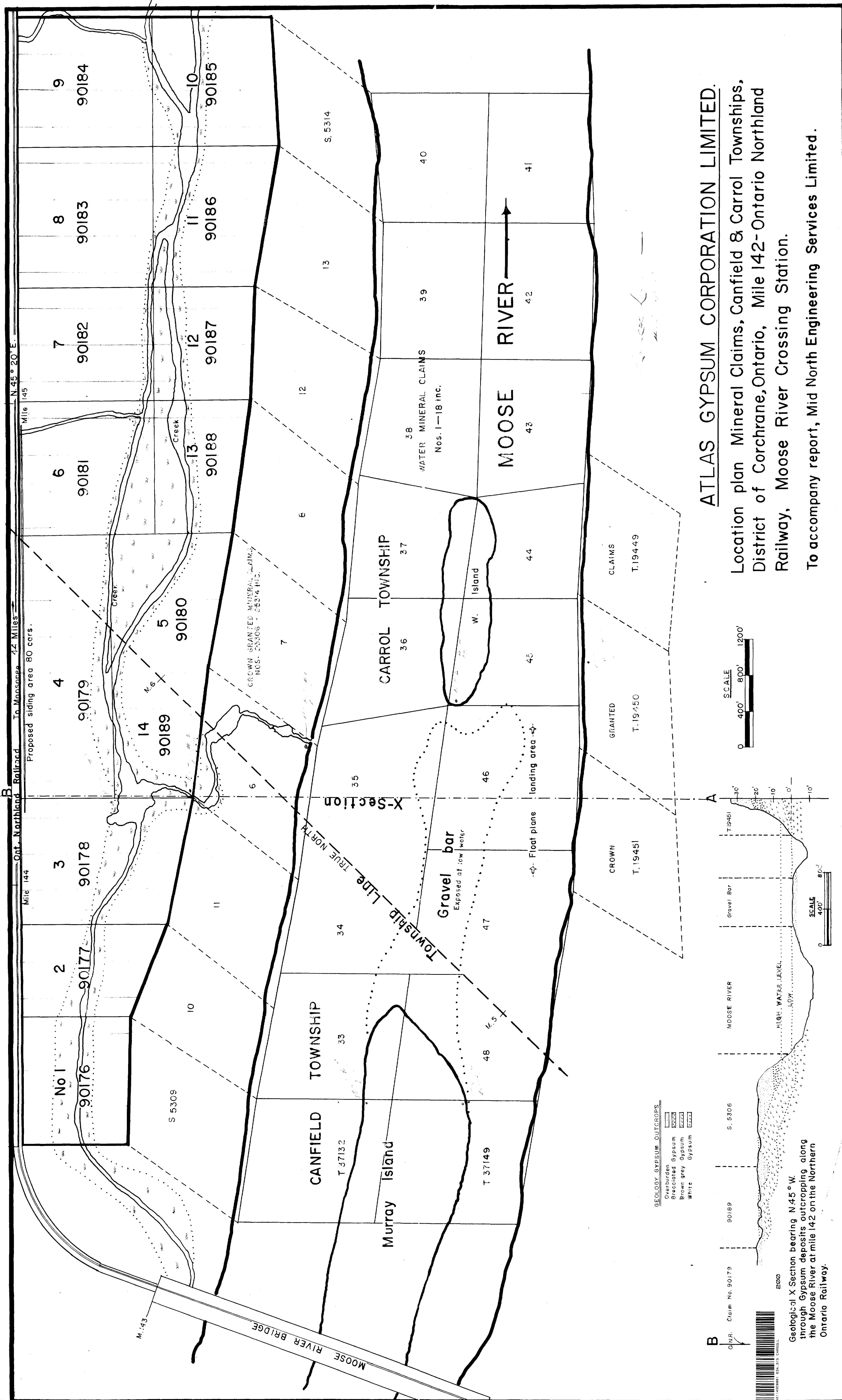
Brecciated Gypsum

Brown Gypsum

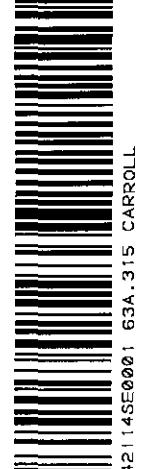
White Gypsum



358-5L
MADE IN U.S.A.
10 X 10 TO THE INCH
KEUFFEL & ESSER CO.



ATLAS GYPSUM CORPORATION LIMITED.
 Location plan Mineral Claims, Canfield & Carrol Townships,
 District of Corchane, Ontario, Mile 142-Ontario Northland
 Railway, Moose River Crossing Station.
 To accompany report, Mid North Engineering Services Limited.



Geological X Section bearing N45° W.
 through Gypsum deposits outcropping along
 the Moose River at mile 142 on the Northern
 Ontario Railway.

200

Claim No. 90179
 90189
 S. 5306
 MOOSE RIVER
 Gravel Bar
 T. 19451
 T. 19451

GRANTED
 T. 19450

CLAIMS
 T. 19449

MOOSE RIVER

WATER MINERAL CLAIMS
 Nos. 1-18 inc.

CARROL TOWNSHIP

CANFIELD TOWNSHIP

Murray Island

W. Island

TOWNSHIP LINE TRUE NORTH

Gravel bar
 Exposed at low water

Float plane landing area

X-Section

MOOSE RIVER BRIDGE

