Please note; for claimo L626768 and L565147, see file no. 2.5153

Geology Report

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Dyment-Kidston Teck "A" Project

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MINING LANDS SECTION

M. Eastwood T. P. Ryan

for

Labrador Exploration (Ontario) Limited

November, 1982

Toronto, Ontario

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Geology Map

INTRODUCTION

Labrador Exploration (Ontario) Limited acquired twentyfive contiguous unpatented mining claims located in Teck Township, Larder Lake Mining Division in January 1982. The property is being explored primarily for gold mineralization but
the base metal potential of the property is not being ignored.

During the months of February and March a program of linecutting
and ground geophysical surveying was completed over the property.

The exploration effort on the property was continued from May to August with the geological mapping of the group. The results of the mapping program form the basis of the following report.

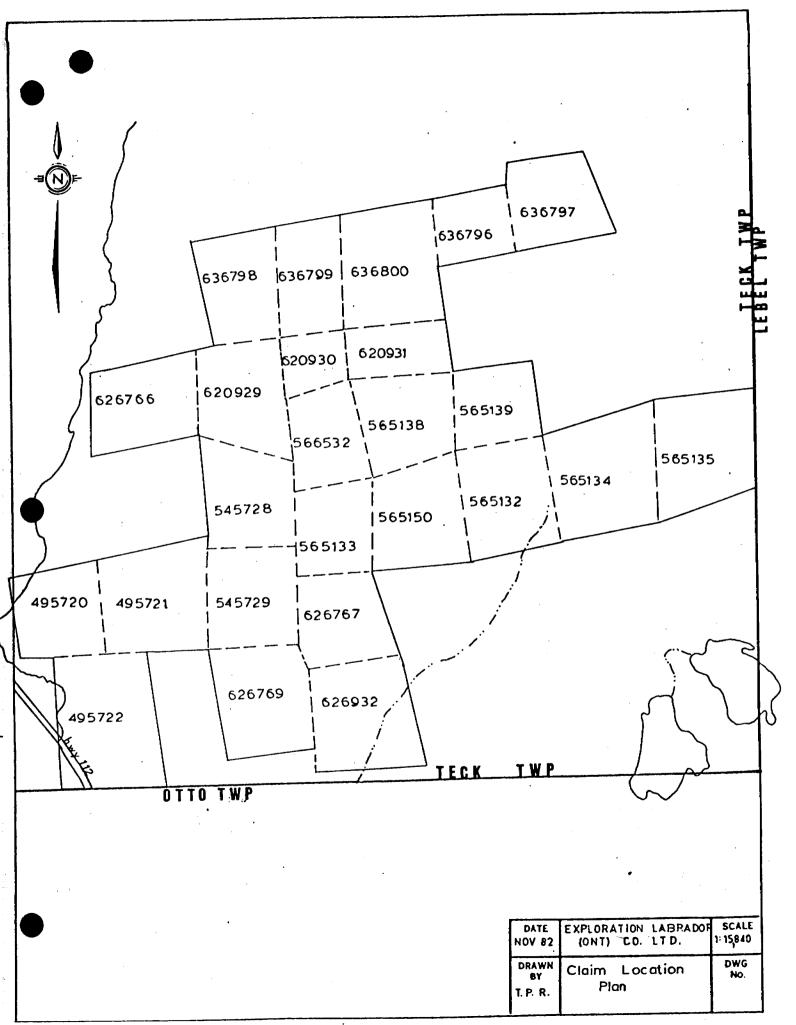
LOCATION AND ACCESS

The property is located approximately three miles south of the Town of Kirkland Lake, Ontario. The property is located in the southeast corner of Teck Township, Larder Lake Mining Division and is easily accessible by Highway 112 which traverses the southwestern corner of the claim group.

PROPERTY DESCRIPTION

The property consists of twenty-five unpatented contiguous mining claims located in Teck Township, Larder Lake Mining Division. The claim numbers comprising the group are as follows:

1.495720	L565133	L565150	L620931	L636796
1,495721	L565134	L565152	L620932	L636797
T.495722	L565135	L566532	L626766	L636798
T-545728	L565138	L620929	L626767	L636799
T.545729	T-565139	1.620930	L626769	L636800.



PREVIOUS WORK

The southeastern portion of Teck Township was mapped by various Ontario Survey personnel from 1923 to 1944. In 1945

Jas. Thompson's compilation geology map of Teck Township was published on a single sheet at a scale of 1" = 1000' A modest amount of surface prospecting has been carried out as evidenced by the numerous trenches and pits occurring on the property. In 1978 Inco drilled seven short holes in the eastern part of the property to test a massive pyrite occurrence.

In 1978, the O.G.S. sponsored airborne geophysical survey crew covered a portion of the property. A limited amount of geological mapping, and ground geophysical surveying was carried out by Mr. M. Dyment and Mrs. J. Kidston from 1979 to 1981.

PERSONNEL EMPLOYED

Most of the geological mapping was carried out by senior party leader, Mr. Martin Eastwood, assisted by Mr. Mark Thomas. The author mapped the eastern portion of the property.

METHOD OF SURVEY

The system of cut and chained baselines, tielines, and crosslines established in February were used as control for the geological mapping. The crosslines were established at 300 foot intervals along baseline 100N. All cut lines were mapped as well as the areas between the lines. The geological mapping started May 25, 1982 and was completed on August 2, 1982.

LOCAL GEOLOGY

The property is underlain by an assemblage of ultramafic and mafic volcanic flows and interformational sediments. The assemblage is intruded by syenite stocks and dykes of related feldspar porphyries. All bedrock on the property is of Archean age.

The trend of the geological formations in the western part of the property is east-west; whereas, the trend is north-south in the eastern region of the claim group.

The only top determination which could be accurately made were from the pillowed variolitic basalt which show that the tops of the unit faces southward and is overturned to the south.

TABLE OF LITHOLOGIC UNITS

Pleistocence and Recent

till, sand, swamp, lake bottom sediment

Unconformity

Precambrian (Archean)

Algoman intrusing Feldspar porphyry dykes Syenite stocks, dykes

pyroxenite

Intrusive contact

Ultramafic to mafic volcanics and interflow sediment

Variolitic, pillowed basalt Graphitic - cherty argillite Massive basalt Basaltic komatiite

DESCRIPTIVE GEOLOGY

VOLCANIC ROCKS

Basalt (Map Unit 63)

The basaltic rocks occurring on the property are the dominant rock type underlying the claim group. They occupy the area lying between the Murdock syenite stock on the north and the komatilitic rocks outcropping along the southern boundary of the group.

The basalts are massive, fine to medium grained, and weather from a dark green to black colour. Fresh surfaces are grey-black in colour. Coarse grained varieties of the basalt occur locally on the property and exhibit dioritic and/or gabbroic texture. Previous workers in the area have identified these coarse grained rock as dioritic intrusion, however we feel they are actually coarse grained phases of the basaltic flows occurring on the property.

The basalts are generally non-magnetic but where the outcrops are moderately sheared magnetite as well as pyrite is developed on the shear planes. The basalts are slightly chloritized and epidote mineralization was observed in a few outcrops. The groundmass consists of pyroxene, biotite, quartz and minor feldspar with local areas being calcareous.

A moderately magnetic variety of the basalt occurs in a north-south striking band underlying the eastern part of the property. The weathered surfaces is generally lighter in colour

than the basalt described above but in all other aspects it appears to be similar to the above basalt. This magnetic unit is approximately 200 feet wide and lies within a non-magnetic basalt formation.

Variolitic Pillowed Basalt

(Map Unit 62)

A variolitic, pillowed basalt unit outcrops over limited extent in the western portion of the property.

The unit is characterized by pale to limey green variolites of feldspathic composition. The variolites range in
diameter from 1 mm to 3.5 mm and sometimes coalesce into patches
attaining 15 cms in diameter. The variolites are set in a
fine grained, light to dark green matrix of probable basaltic
composition.

The unit is distinctly pillowed with the variolites accumulating around the outer margins of the pillows. Pillow selvedges are distinctly marked by differential weathering of the chloritic tuffaceous material composing the pillow rims. The pillows are only moderately deformed so that they are easily recognized.

Basaltic Komatiite

(Map Unit 79)

The basaltic komatiite unite underlies the extreme southern portion of the claim group and trends in a general northeast - southwest direction. The unit weathers from dark green to limey green while fresh surfaces are usually dark grey to black in colour. The komatiite is fine to medium grained, non-magnetic and occasionally calcareous.

The majority of the outcrops mapped exhibit spinifex and polysuturing textures.

The spinifex is usually composed of pyroxene crystals that range in size from 5 mm to 15 cms. The larger crystals were only observed where the komatiities were strongly sheared. Platey olivine crystals were also observed in some of the spinifex textures.

Many of the basaltic komatiite outcrops exhibit polysuturing textures. Some outcrops have a "bulbous" or conglomeratic appearance due to the weathering effects on the less
weather resistance material occurring within the polysutures.

The komatiites are slightly chloritized but where shearing has occurred talc, chlorite and sometimes fibrous serpentine has developed along the shear planes.

SEDIMENTARY ROCKS

Graphitic-Cherty Argillite (Map Unit 5)

A horizon of graphitic-cherty argillite outcrops in the western part of the property between the massive basalt (Unit 63) to the north and the variolitic, pillowed basalt to the south (Unit 62). The horizon appears to be an interflow sediment as is a common occurrence in Archean volcanic terrains.

The unit is characterized by alternating beds and laminae of white to grey chert and black, graphitic argillaceous material. The rock is fine grained and is weakly magnetic. Pyrite and magnetic pyrrhotite blebs, stringers and laminae occur within the horizon. A minor amount (<5%) of magnetite occurs within the unit.

INTRUSIVE ROCKS

Syenite (Map Unit b)

The northern portion of the property is underlain by the southern edge of the Murdock Syenite stock. The syenitic rocks comprising the stock in this portion of the property varies in mineralogy and colour from north to south.

The syenite underlying the northern portion of the claim group is massive, medium to coarse grained and pink in colour.

The syenite consists of 80 to 90% feldspar (potassic) and less than 5% quartz. The remainder of the rock is composed of ferromagnesium minerals of which biotite is the most abundant.

Southward, the syenite becomes more mafic in content. There is an increase in ferromagnesium, biotite, hornblende, chlorite and pyroxene minerals with a corresponding decrease in feldspar content. However, plagioclase remains the dominant mineral in the syenite.

The extreme southern edge of the stock is composed of up to 20% biotite and 5% hornblende with minor amounts of chlorite.

Potassic feldspar remains the dominant mineral in the syenite but is decreased to 70% of the rock.

Narrow dykes and small plugs of syenite occur in other parts of the property but appear to be of local extent.

Feldspar Porphyry (Map Unit d2)

Numerous dykes and small plugs of feldspar porphyry intrude the basaltic units. The porphyry weathers to a pink-white colour; whereas fresh surfaces are grey to pink in colour. The feldspar phenocrysts are pink to white in colour and are set in a fine grained groundmass consisting of biotite, hornblende, quartz and feldspar. The biotite is slightly chloritized.

Pyroxenite? (Map Unit n(1))

A mafic rock occurring near the southern matrix and in probable contact with the Murdock Syenite Stock has been mapped as a pyroxenite. The massive, medium grained, black to dark green rock is composed of essentially augite crystals ranging in length from 1 mm to 15 mm. Biotite is also a major constituent of this unit. The rock is magnetic and calcareous. Pyrite occurs as isolated cubes and specks throughout the pyroxenite.

Pleistocene and Recent

The bedrock on the property is covered by a thin veneer of till, sand and swamp. Bedrock is estimated to be less than 50 feet below surface in any part of the property. Normally, bedrock is covered by a thin layer of mass and humus.

STRUCTURAL GEOLOGY

The pillowed variolitic basalt outcropping in the western part of the property was the only formation from which top determinations could be confidently determined. The pillow structures indicate that the top of the formation faces southward and that the formation is overturned to the south.

The exposures of basaltic komatiite are generally poor and do not provide sufficient evidence to accurately make top determinations based on the spinifex or polysuturing textures.

The geological formations and foliation trends are coincident and strike in an east-west direction in the western portion of the property; whereas in the eastern portion they generally strike north-south.

Faulting

A north northeast trending fault is apparent in the area lying between L127E and 133E at the 100N baseline. The graphitic-cherty argillite horizon appears to be offset 400 feet to the south on the east side of the fault. The zone is marked topographically by low swamp ground. The variolitic basalt which would also be displaced by the fault was not observed on the eastern side of the structure.

Another northerly striking fault or shear structure occurs in the eastern portion of the property north of the baseline between lines 173+50E and 175+50E. The zone is impregnated by bull white quartz veins some of which contain black tourmaline. The rocks in the area are carbonated and fuchsitic.

Talc and chlorite is developed in the basalts and komatiite rocks along the shear planes. In one locality fibrous serpentine is developed in a sheared outcrop.

Other north south trending faults were mapped on the property. However, displacement of geological formations is small and these structures appear to be of local extent.

Alteration

Generally, the rocks underlying the property are slightly chloritized which reflects the low grade metamorphism the area has undergone. However, there are two areas on the property which have experienced moderate carbonatization.

The intercalated assemblage of komatiitic and sandstone units occurring in the southwestern corner of the group or on claim 495727 have been moderately to slightly carbonatized.

The assemblage is dominated by a carbontized, fuchsitic komatilitic rock that exhibits polysuturing textures. A ferruginous crust ranging from 10 mm to 30 mm coats the ultramafic rocks. The sandstone beds are only slightly carbonatized.

It is unclear whether or not the rock we are terming sandstone is in fact a sediment. Previous workers have identified this area as being underlain by a syenite intrusion.

The sandstone weathers to a buff brown colour and is fine grained. The groundmass contains pin head sized quartz grains which are characteristic of sediments formed from the erosion of the Skead volcanic pile lying to the south of the property. The sandstone or syenite also contains random clasts, up to 6" in length, of rhyolitic material that resembles the Skead rhyolite. Some of the clasts contain quartz grains similar to those that can be seen in the Skead rhyolite.

However, clasts of fuchsitic, carbonatized ultramafic materials also occur in this "sedimentary" unit. The obvious source of these clasts would be the similarly altered komatiitic flows that are in contact with the "sediment". The alteration of the ultramafic flow must have occurred prior to the deposition of the "sandstone" or if an "intrusive before" the intrusive event.

We have mapped these rocks as sandstone sediments but realize that they may not be sediment but rather altered syenite intrusives.

The area is locally impregnated by quartz and quartz fuchsite veins and stringers. The quartz veins are usually barren of sulphide mineralization. However, pyrite was observed in some of the smaller quartz stringers.

The second area of carbonatization and fuchsite mineralization occurs in the eastern portion of the property along the 100N baseline between 173+50E and 176+00E. The area is underlain by basaltic rocks which are weakly to moderately carbonatized. The area is also impregnated by quartz veins one of which measures 60 feet wide. Quartz tourmaline veins were also observed in the area adjacent to an assumed north-south fault structure.

ECONOMIC GEOLOGY

The property is essentially underlain by basaltic rocks. Obvious sedimentary rocks are restricted to the interflow graphite-chert argillite horizon occurring in the western part of the property. The questionable sandstone unit discussed above is the only other area on the property where sediments are exposed.

Numerous quartz and quartz-carbonate veins and stringers occur on the property the majority of which are barren of sulphide mineralization. The occasional vein does carry minor amounts of chalcopyrite.

Several isolated and local, massive pyrite and pyrrhotite showings occur on the property. However, they appear to be barren of economic base metal mineralization.

Scheelite stringers and blebs <1% occur with quartz stringers in the carbonatized rocks mapped on claim 495727 between Lines 106E and 109E. The scheelite occurs discontinuously over an area of roughly 100 feet by 20 feet. The largest stringer measured about 2 feet in length and 2 to 5 mm in width.

CONCLUSIONS

The property is underlain by an assemblage of mafic to ultramafic volcanic rocks. Sedimentary rocks are rarely exposed on the property.

The rocks have undergone low grade metamorphism as evidenced by the slight chlorite and epidote mineralization observed in the volcanic rocks. Moderate carbonate alteration accompanied by fuchsite mineralization occurs in two areas.

The younging sequence of the formations is probably southward as evidenced by the pillow top determinations taken from the variolitic pillowed basalt flow.

The rocks occurring on the property may represent the upper portion of the Larder Lake Group (Jensen 1978).

If this is the case the older mudstone and carbonate sediments would lie to the north of the property.

RECOMMENDATIONS

Exploration activity is continuing on the property.

Results obtained to date are being evaluated. It would be premature to make recommendations at this time.

Respectfully submitted,

T. P. Ryan

QUALIFICATIONS

I, Terrence Ryan, have been working in my chosen field of mineral exploration since 1969. I received my B.Sc. from St. Francis Xavier University in 1969 and immediately joined Labrador Mining and Exploration Company Limited. I have been a project geologist since 1978. My duties include, programming and budgeting mineral exploration programs.

Terrace P. Ryan

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日本の世界の一門の 大阪関東の方面

Labrador Exploration (Ontario) Limited Suite 601 P.O. Box 221 Commerce Court East Toronto, Ontario M5L 1E8

Dear Sirs:

RE:

Geological Survey submitted on Mining Claims L 566532 et al in the Township of Teck.

Enclosed are the plans, in duplicate, for the above mentioned survey. In order to complete your submission we require that all maps be signed and dated by the author of the report.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management BRanch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:sc

Encls:

cc: Mining Recorder
Kirkland Lake, Onterio



Geotechnical Report Approval

Jan 26 83

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Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

...

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Chaims L 566532 et al in the Township of Teck.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW:sc

cc: Labrador Exploration (Ontario) Limited Toronto, Ontario

cc: Mr. Terance P. Ryan 410 Satok Crescent Milton, Ontario

ABRADOR EXPLORATION (ONTARIO) LIMITED

TELEPHONE (416) 868-0455 SUITE 601, P.O. BOX 221

COMMERCE COURT FAST

TORONTO, ONTARIO MERECEIVE

Land Management Branc CIRCULATE

COMMENTS PLEASE

NOV - 4 1982

E. F. ANDERSON J. R. MORTON

J. C. SMITH G. SHERMAN

J. M. SILALL

Land Management Branch

Queen's Park Toronto, Ontario

Whitney Block

Mr. E. F. Anderson

Dear Sir,

Director

Room 6450

F 18 70 R. 5459 Assessment Report - Geological Re: Survey - Claims L495720, L495721 et al and L495737, L495738 et al

November 4, 1982

Please find accompanying this letter two geological reports (in duplicate) covering the work completed on two separate claim groups located in Teck Township, Larder Lake Mining Division.

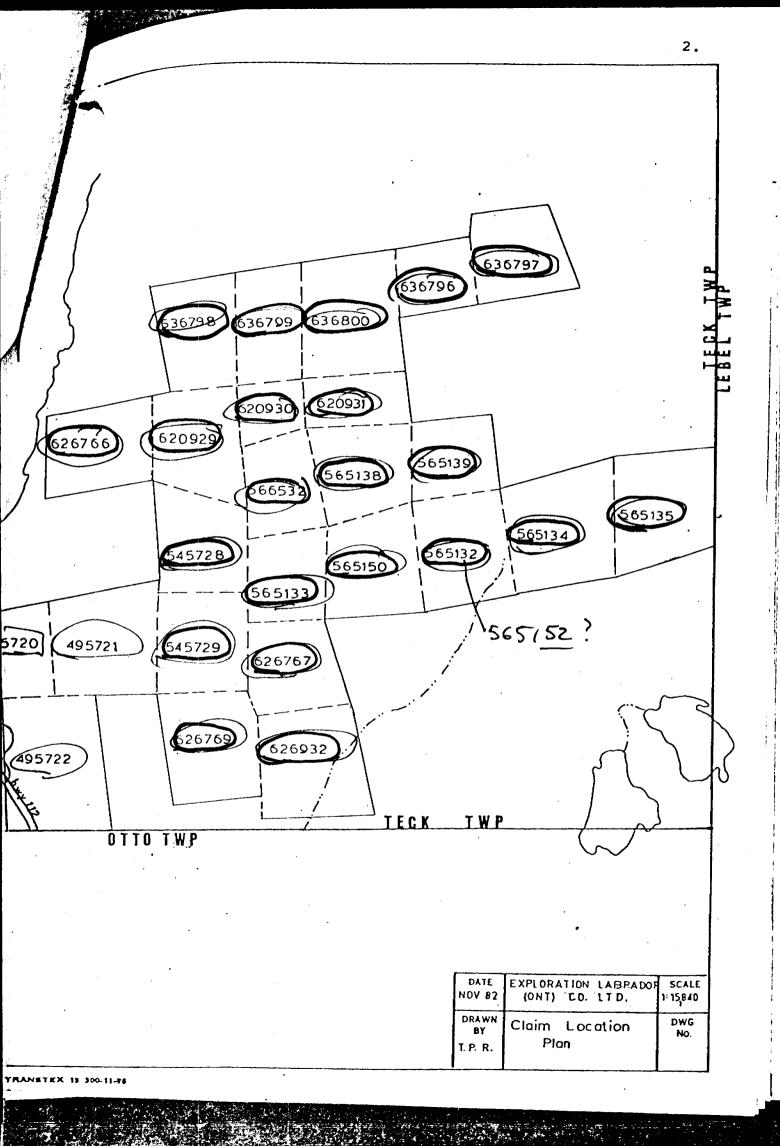
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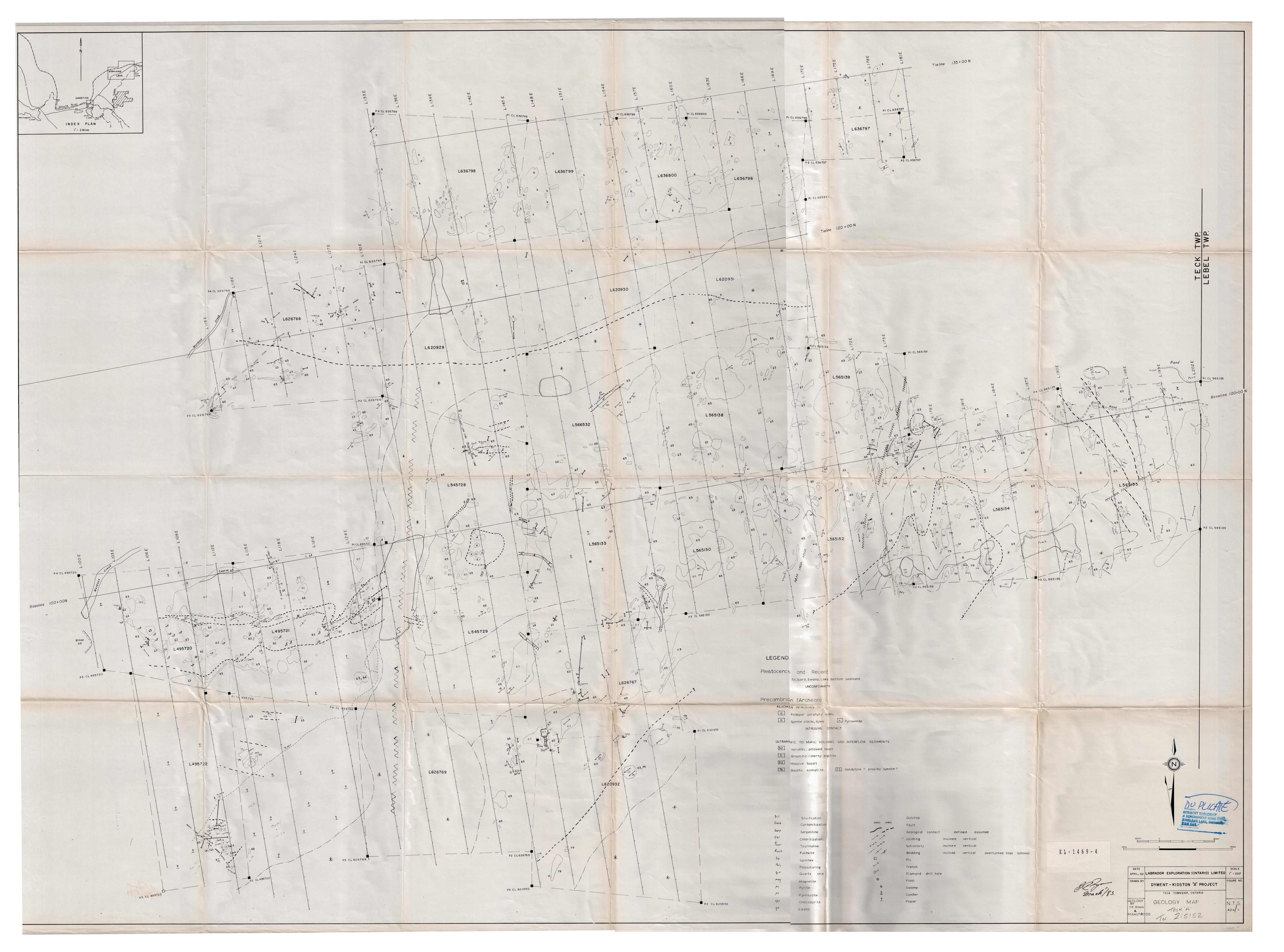
Yours truly,

T. P. Ryan

Project Geologist

TPR:jc encls.





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Ceftification Verifying Rep	ort of Work	knowledge =	f the facts set	forth in the Repor	t of Work an	nexed hereto.	having performed	the work
I hereby certify that I have or witnessed same during ar	a personal and intimate id/or after its completio	n and the ani	nexed report	is true.				

Name and Postal Address of Person Certifying

1983 03 23 2.5152

Labrador Exploration (Ontario) Limited Suite 601 P.O. Box 221 Commerce Court East Toronto, Ontario M5L 1E8

Dear Sirs:

RE: Geological Survey submitted on Mining Claims

L 566532 et al in the Township of Teck.

Enclosed are the plans, in duplicate, for the above mentioned survey. In order to complete your submission we require that all maps be signed and dated by the author of the report.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management BRanch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:sc

Encls:

cc: Mining Recorder

Kirkland Lake, Onterio



Geotechnical Report **Approval**

Jan 26 83

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Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Chaims L 566532 et al in the Township of Teck.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW:sc

cc: Labrador Exploration (Ontario) Limited Toronto, Ontario

cc: Mr. Terance P. Ryan 410 Satok Crescent Milton, Ontario

ABRADOR EXPLORATION (ONTARIO) LIMITED

Mr. E. F. Anderson

Land Management Branch

TELEPHONE (416) 868-0455 SUITE 601, P.O. BOX 221

COMMERCE COURT FAST TORONTO, ONTARIO

MSRECEIVE Land Management Branc

CIRCULATE COMMENTS PLEASE

NOV - 4 1982

E. F. ANDERSON J. R. MORTON J. C. SMITH

G. SHERMAN

J. M. L. A. A. E.

Dear Sir,

Director

Room 6450 Whitney Block

Queen's Park Toronto, Ontario

> Re: Assessment Report - Geological Survey - Claims L495720, L495721 et al and L495737, L495738 et al

November 4, 1982

Please find accompanying this letter two geological reports (in duplicate) covering the work completed on two separate claim groups located in Teck Township, Larder Lake Mining Division.

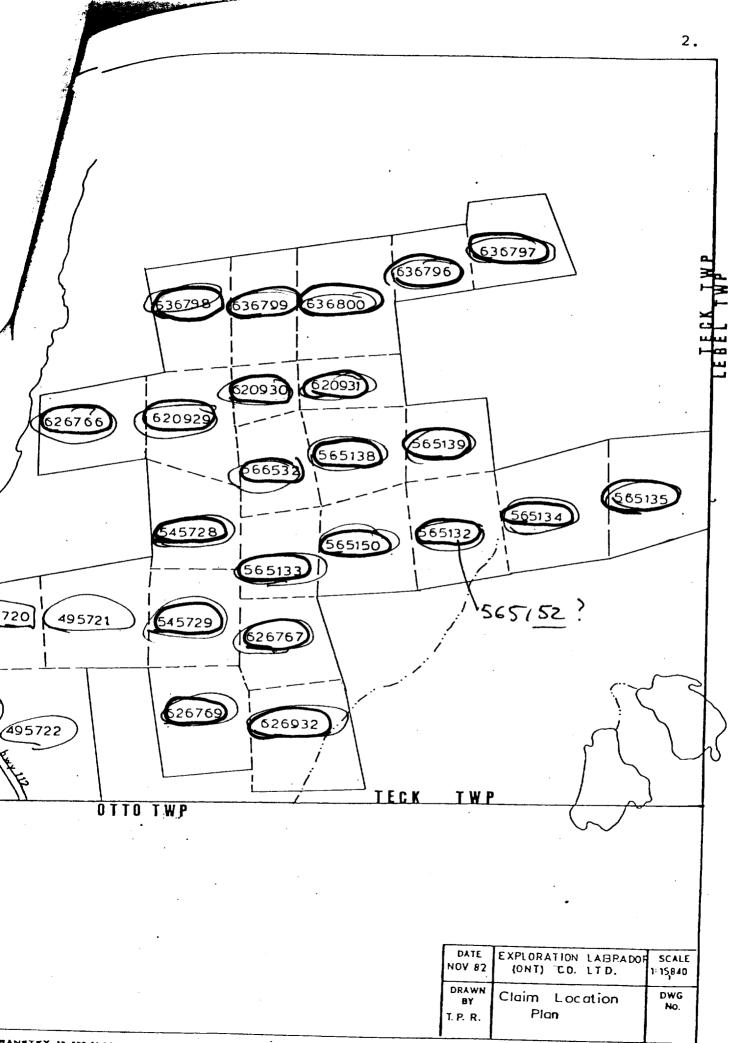
The work has been pre-recorded.

Yours truly,

T. P. Ryan

Project Geologist

TPR:jc encls.



RANETEX 18 300-11-76