

TECK EXPLORATION LTD.

NORTH BAY, ONTARIO



52J04SE0001 2.14425 DRAYTON

010

**REPORT ON
THE 1991 EXPLORATION PROGRAM
ON THE
MINNITAKI PROPERTY
DRAYTON TOWNSHIP
NORTHWESTERN ONTARIO**

by

J. Janzen

Report No. 1160NB

11-20-91

MINING DIVISION
PATRICIA
MINING RECORDER
N.T.S. 52 J/4
31 DEC 24 A10 : 04

SUMMARY

The Minnitaki property consists of 17 unpatented contiguous mining claims (25 unit equivalent) located approximately 12 km southeast of Sioux Lookout, Ontario within Drayton Township. The property is currently under final negotiations for option from Mr. Ken Bernier of Sioux Lookout, Ontario.

Highly anomalous gold values (2.9 to 4.4 grams Au) occur within a carbonate silica-altered contact shear between volcanics and sediments at the main trench on the property. The pyrite and molybdenite mineralization and silicification observed within the contact structure resembles siliceous ore at Hemlo.

A program of line cutting and geological mapping was completed by Teck during the fall of 1991. The results of this program are summarized in this report. The 1991 exploration expenditures total approximately \$29,000.00.

Further exploration programs of line cutting, magnetic and VLF-EM surveys, trenching, induced polarization (I.P.) survey and diamond drilling have been recommended for 1992. The cost of the proposed programs are estimated at \$160,000.



52J04SE0001 2.14425 DRAYTON

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INTRODUCTION

Teck is currently negotiating an option deal on the 17-claim (25 unit) Minnitaki property from Sioux Lookout prospector Ken Bernier. The property is located in Drayton township, Patricia Mining Division approximately 12 km southeast of Sioux Lookout, Ontario. A contact shear separating volcanics and sediments, observed in the main trench, returned assays up to 4.4 g Au and prompted Teck to enter into negotiations.

A program of line-cutting and geological mapping was completed during the fall of 1991. This report summarizes work performed, results obtained and makes recommendations for further exploration on the property in 1992.

LOCATION AND ACCESS

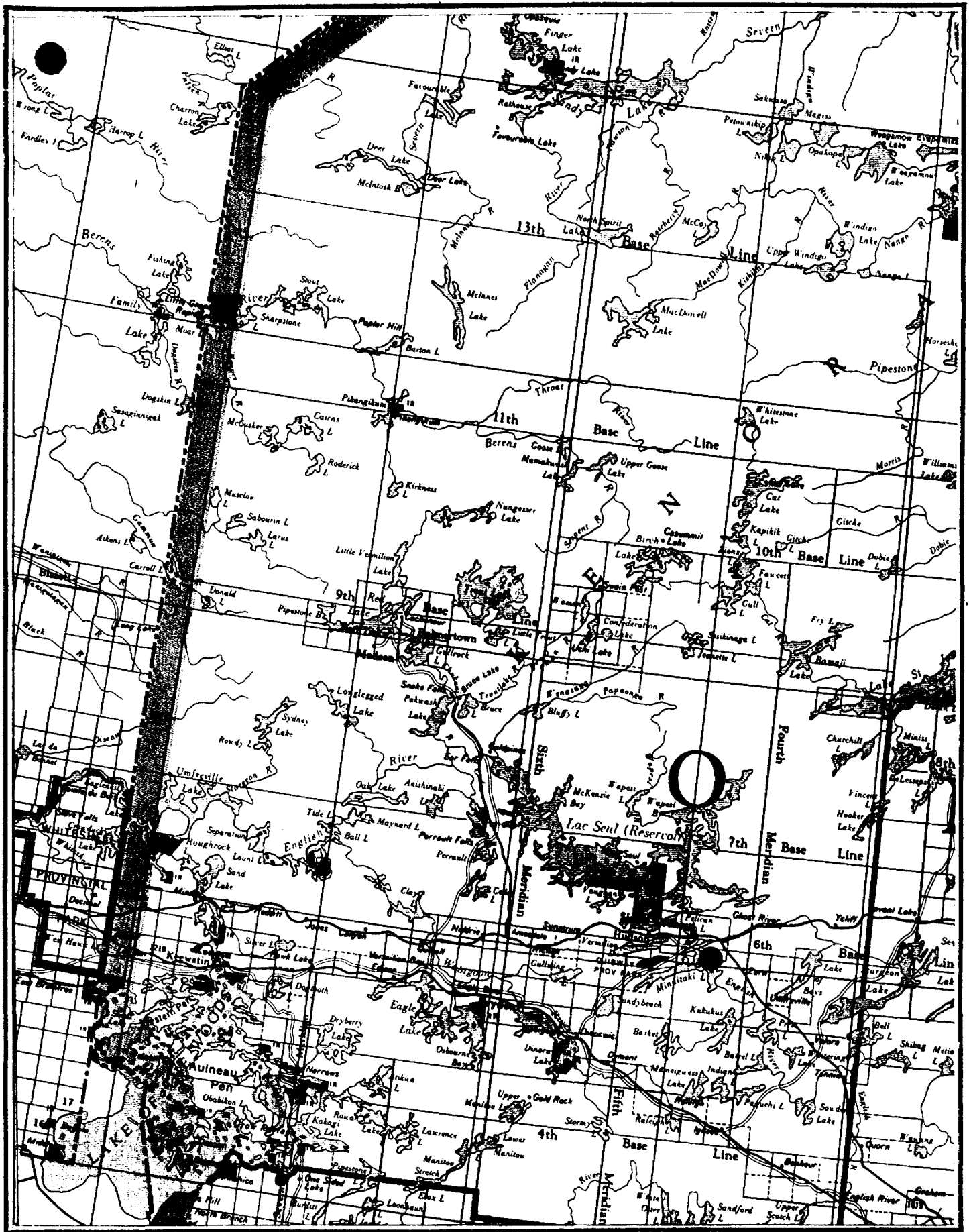
The Minnitaki property is located in Drayton township on the north shore of East Bay of Minnitaki Lake, approximately 12 km southeast of the town of Sioux Lookout, northwestern Ontario (N.T.S. 52 J/4).

Access to the property is easily attainable via the waters of Minnitaki Lake. Access is also possible (via snowmobile or ATV) by a tractor trail branching off a logging road lying approximately 1.5 km east-northeast of the eastern property boundary.

TOPOGRAPHY AND VEGETATION

Approximately 20% of the property underlies Minnitaki Lake. The remainder of the property is in the form of a peninsula. Topography is generally comprised of low rolling hills. Steep rock ridges are localized and usually near the shoreline. The east-central part of the property is low lying with little exposed bedrock.

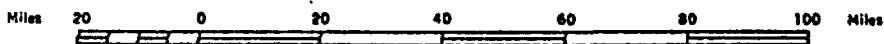
Vegetation on the property is predominantly mixed forest containing balsam, poplar, birch, cedar and black spruce. The north-central to northeastern portion of the property is characterized by a mature stand of jack pine. The forestry department of the Ministry of Natural Resources has indicated that this stand will be harvested sometime in 1993.



LOCATION MAP

Figure 1

1 inch equals approximately 32 miles



THE PROPERTY

The property consists of 17 unpatented contiguous mining claims located within Drayton township, Patricia Mining Division. Two of the claims (additions) P.A. 1145174 and P.A. 1145175 were staked after the inception of the new mining act and contain 4 and 6 units respectively. The property is roughly the equivalent of 25 units (400 hectares).

A list of the claims, their status and size is presented in Appendix A and their locations appear in Drawing 6676 (in pocket).

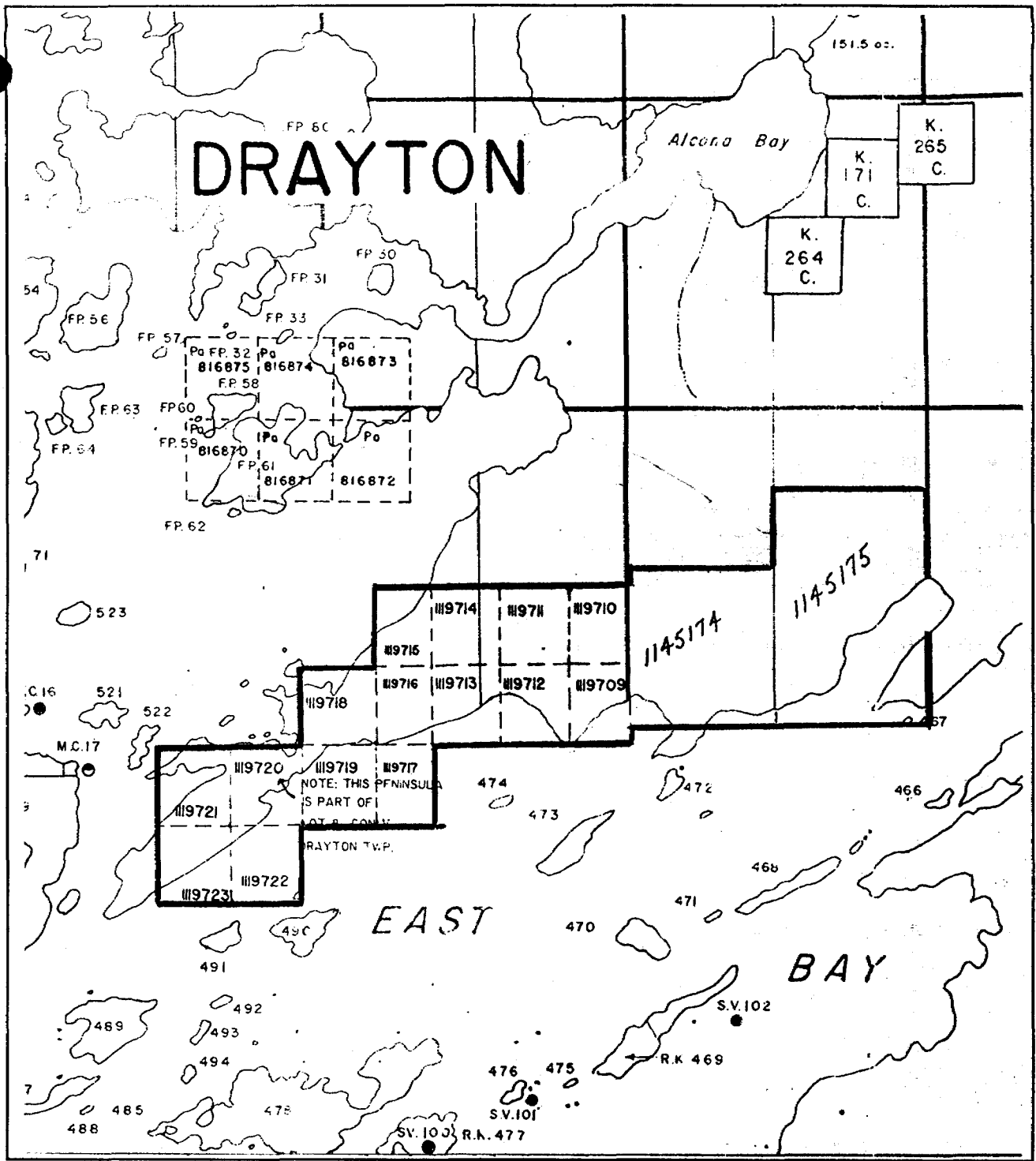
PREVIOUS WORK

1948	Wright-Hargreaves	Trenching and 4 (x-ray) diamond drill holes; \$5.00 Au over narrow width best reported value.
1951	McCombe Mines	Geological mapping, sampling.
1958	McCombe Mines	Mag - VLF survey.
1989	Bernier, K.	Mag - VLF, flagged grid.
1990	Bernier, K.	Trenching, sampling.

REGIONAL GEOLOGY

The Minnitaki property is situated within the Wabigoon subprovince of the Superior Province. The "Sioux Lookout terrane" has been defined as a collisional zone separating the Wabigoon and Winnipeg River subprovinces (Beakhouse, 1988). The property lies within the Sioux Lookout terrane.

The Sioux Lookout terrane contains six east-west trending belts of archaic age. From north to south through the terrane the belts are named accordingly: Northern metaplutonic complex, northern volcanic belt, northern sedimentary belt (Patara & Abram group), central



CLAIM SKETCH
MINNITAKI PROPERTY

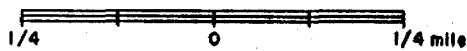


Figure 2

volcanic belt, southern sedimentary belt and southern volcanic belt. The units have undergone predominantly greenschist facies metamorphism.

The Minnitaki property locally straddles the unconformable/fault contact between the southern sedimentary belt (Minnitaki group) and the central volcanic group (Figure 3).

1991 EXPLORATION PROGRAM

The 1991 exploration program on the Minnitaki property included line cutting and geological mapping.

Line Cutting

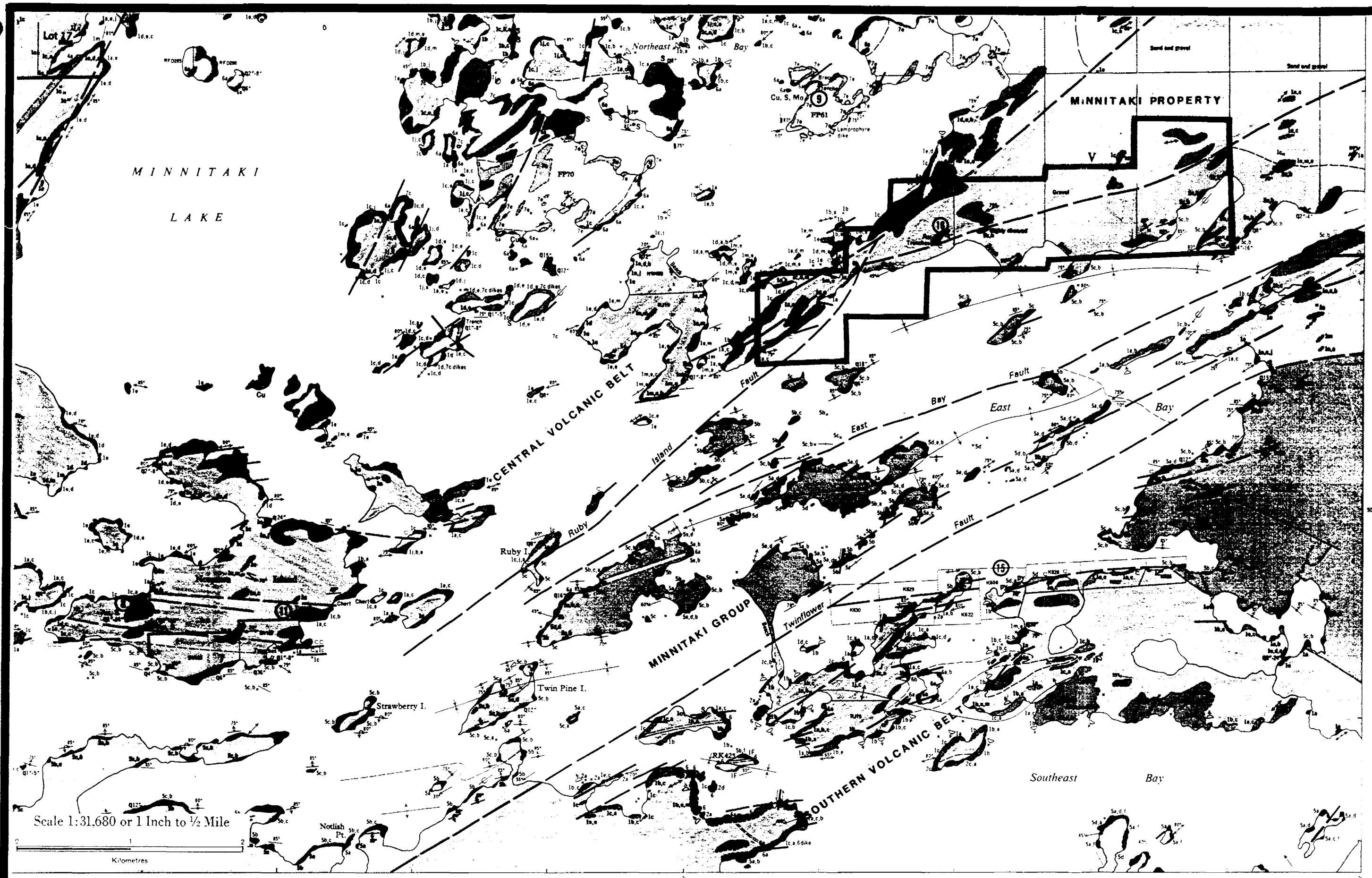
During the fall of 1991 Vytal Exploration Services of Thunder Bay, Ontario was contracted to establish a grid on the Minnitaki property. Picket lines and base lines were predominantly cut by chainsaw. Pickets were cut by machete and axe and inscribed with graphite pencil. Red flagging was fixed to pickets denoting 100 m intervals.

Base lines were established at two azimuths, 055° and 070° radiating at line 0+00 running roughly parallel to geologic strike. 4.4 kms of base line now exists picketed at 25 m intervals. 25 km of lines were cut at 100 m intervals, picketed at 25 m stations.

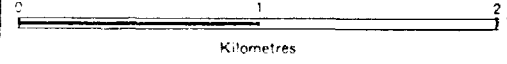
A total of 29.4 km of lines and base lines are complete covering the entire land portion of the Minnitaki claim group (Dwg. 6676).

Geological Mapping

All picket lines, base lines, partial shorelines and boundary claim lines were traversed by the author with the assistance of Ken Johnston. In addition to mapping outcroppings, trenches, vegetation, glacial features, relief, roads, trails, shoreline, claim lines and posts were tied into the grid and are presented on Dwg. 6676.



Scale 1:31,680 or 1 Inch to 1/2 Mile



Reference: O.G.S. Map 2243 - Abram Lake Sheet

Figure 3. Regional geology of the Minnitaki Property.

EXPENDITURES

As of September 31, 1991 a total of \$25,442.63 has been spent on the Minnitaki Project. The 1991 year-end costs are estimated to be \$29,000.00.

TABLE 1
Expenditures
January 1, 1991 to October 31, 1991

Option Payment	\$5,000.00
Line Cutting	9,016.00
Geology	6,029.86
Labour	1,754.50
Drafting	510.82
Assaying	118.44
Living	1,443.94
Travel & Transport	628.00
Supervision	543.40
Miscellaneous	<u>397.67</u>
Total	\$25,442.63

RESULTS

Geological Mapping

The Minnitaki property is underlain primarily by west-southwest trending mafic volcanics (central volcanic belt) and metasediments (Minnitaki group). The volcanics lie to the north and are interpreted to be in fault contact with the metasediments to the south (Dwg. 6676). The contact, exposed in the Main Trench, is observed to be silicified, carbonate-altered, pyritic, sheared and auriferous (Figure 4).

Mafic Volcanics:

The mafic volcanics outcrop west of L10+00mE and north of the base line east of

L10+00mE (Dwg. 6676).

The mafic volcanics are predominantly weakly altered massive flows. They are very fine-grained, dark green, weakly mineralized (nil to trace pyrite) and weakly foliated. Flows of andesitic and dacitic composition outcrop very locally. Mafic to intermediate crystal tuffs and agglomerate also outcrop locally within the mafic flow sequence. The crystal tuffs (pyroclastic flows) contain approximately 5-15% fine-grained feldspar phenocrysts. The agglomerates contain 5-10% lapilli-sized feldspathic fragments.

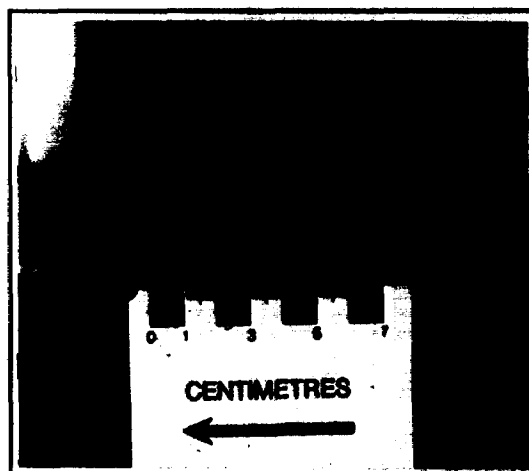
Strongly foliated mafic volcanics were mapped as mafic tuffs. These rocks have a tuffaceous appearance due to their strong foliation but may be sheared or schistose flows.

Metasediments:

The sediments outcrop predominantly east of L9+00mE and south of the base line (Dwg. 6676). Greywacke and argillite are the most common sediments observed on the property. The greywackes are very fine-grained, light to dark grey and moderately foliated. Occasionally the greywackes are interbedded with argillite. The argillites (varved slates of Johnston, 1972) are very fine-grained, dark green, thinly bedded/laminated and moderately to strongly foliated. Both the greywacke and argillites are non to weakly mineralized with pyrite (nil to trace).

An additional unit mapped as a sediment (wacke-metawacke) was also encountered. This unit is strongly sericitized, light green, very fine-grained, moderately to strongly foliated and weakly mineralized with pyrite (trace to 1%). Occasionally the unit contains 1-4% feldspar phenocrysts yielding a porphyritic texture locally. Fine-grained, tan-brown iron-carbonate (ankerite) crystals are observed locally. Although this unit was mapped in the field as a sericitized wacke, its origin is unclear and could be the altered equivalent of a feldspar porphyry or feldspar crystal tuff (Plate 1).

Plate 1



Porphyritic Sericite Schist

Structure

Three main faults, Ruby Island, East Bay and Twinflower faults (recognized by Pettijohn 1936) lie just south of the Minnitaki property. Both the East Bay and Twinflower faults trend N 65°E, the Ruby Island fault trends N 45°E and is theorized to intersect the property grid at approximately L5+00mE, 0+50mS (not observed in outcrop). An anticlinal structure is enclosed by the East Bay and Twinflower faults. The limbs of the fold have been removed by faulting; the remaining block is elevated and moved southeast (sinistrally) relative to adjacent geology (Johnston, 1972; Figure 3). The O.G.S. map 2243 also indicates the presence of a synclinal structure (under the waters of Minnitaki Lake immediately south of the eastern portion of the property) enclosed by the East Bay and Ruby Island faults. The O.G.S. indicates that bedding tops in this area are overturned to the south.

Within the property volcanics and sediments trend west-southwesterly (250°) and are generally vertically to steeply dipping to the north (77-89°). Foliation observed in outcrop is parallel to bedding and/or flow direction.

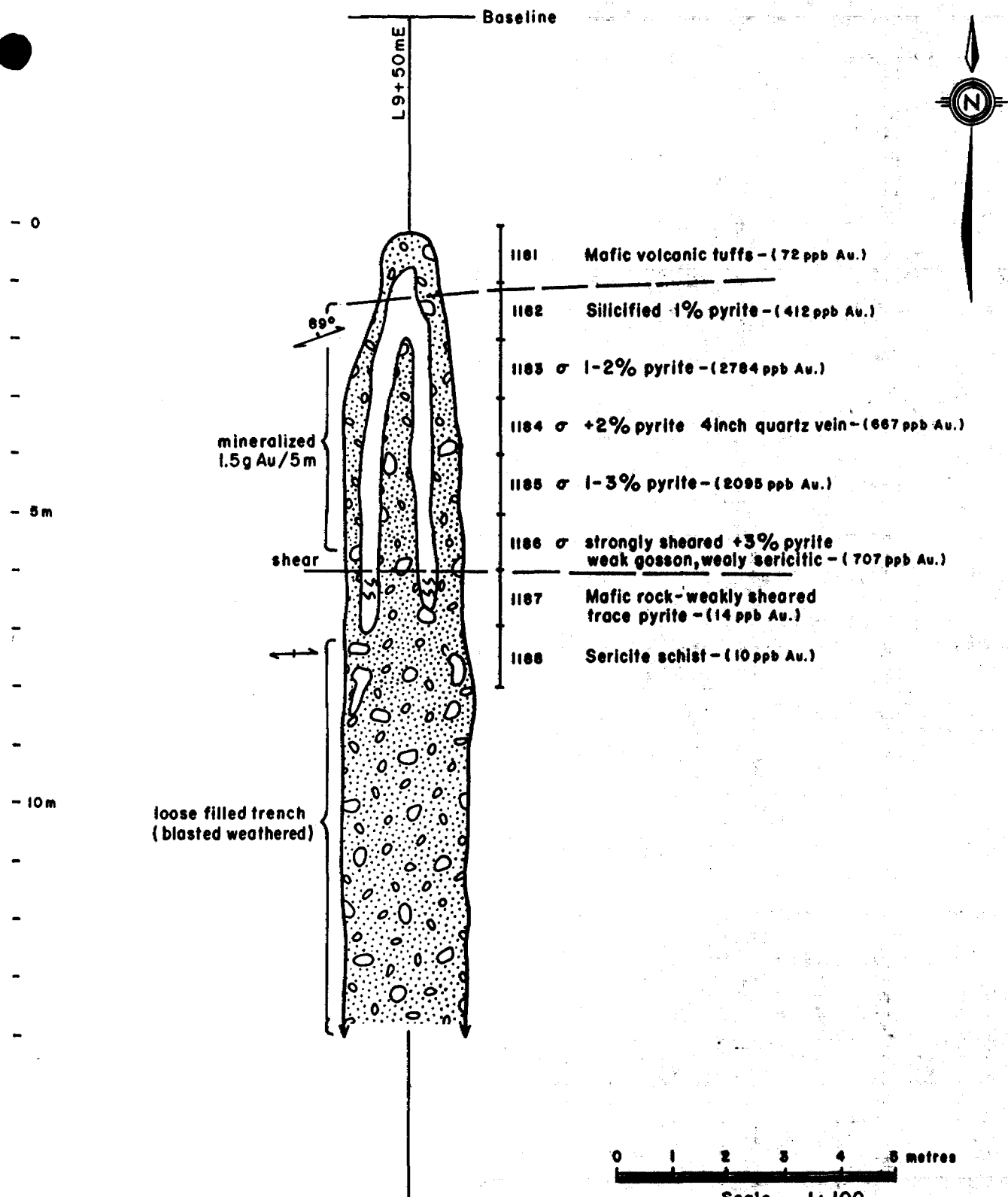
The contact between the central volcanics and metasediments (Minnitaki group) is in part marked by the Ruby Island fault (Johnston, 1972). The Ruby Island fault, although not

observed in outcrop on the property, is theorized to intersect the grid at approximately L5+00mE and 0+50mS (Figure 3). An inferred bend and/or splay of the Ruby Island fault is thought to traverse the Minnitaki property from approximately L5+00mE; 0+50mS to L35+00mE; 0+60mS (Dwg. 6676). This fault is assumed to be the property wide contact separating volcanics to the north and sediments to the south. The main trench (Figure 4) excavated in 1991 by Ken Bernier (property vendor) exposes this sediment/volcanic contact. Shearing, silica and carbonate alteration and pyrite mineralization are observed in the trench. The main trench provides the only exposure of the sediment/volcanic contact. Elsewhere on the property, the contact is covered with overburden.

Several other local shears/faults were observed in outcrop during the 1991 mapping program. The two strongest being a north-northeast trending shear observed within a greywacke at L34+00mE; 1+60mS and an east-northeast trending shear within argillite and greywacke from L25+00mE; 6+15mS to L29+00mE; 5+30mS.

Alteration and Mineralization

The strongest altered and mineralized rocks on the property were observed at the exposed volcanic/sediment contact in the main trench located at L9+50mE; 0+03mS (Figure 4 and Dwg. 6676). The hanging wall (trench-north) is sheared mafic volcanic. The central portion of the trench is underlain by a strongly silicified-carbonate alteration zone, approximately 5 m in width. This zone is mineralized with 1-3% pyrite and trace molybdenite (Plates 2 & 3).



- 1181 Mafic volcanic tuffs - (72 ppb Au.)
- 1182 Silicified 1% pyrite - (412 ppb Au.)
- 1183 σ 1-2% pyrite - (2764 ppb Au.)
- 1184 σ +2% pyrite 4inch quartz vein - (667 ppb Au.)
- 1185 σ 1-3% pyrite - (2095 ppb Au.)
- 1186 σ strongly sheared +3% pyrite weak gossan, wealy sericitic - (707 ppb Au.)
- 1187 Mafic rock - weakly sheared trace pyrite - (14 ppb Au.)
- 1188 Sericite schist - (10 ppb Au.)

Teck Exploration Ltd.			
MAIN TRENCH			
MINNITAKI PROPERTY DRAYTON TOWNSHIP			
FIGURE 3	DATE: AUG. 1991	JOB: 18070	N.T.S. 82J/4, 82K/1

Figure 4

Plate 2 - Central - Main Trench - Zone/Contact
(silicified-carbonate alteration, 3-5% pyrite)

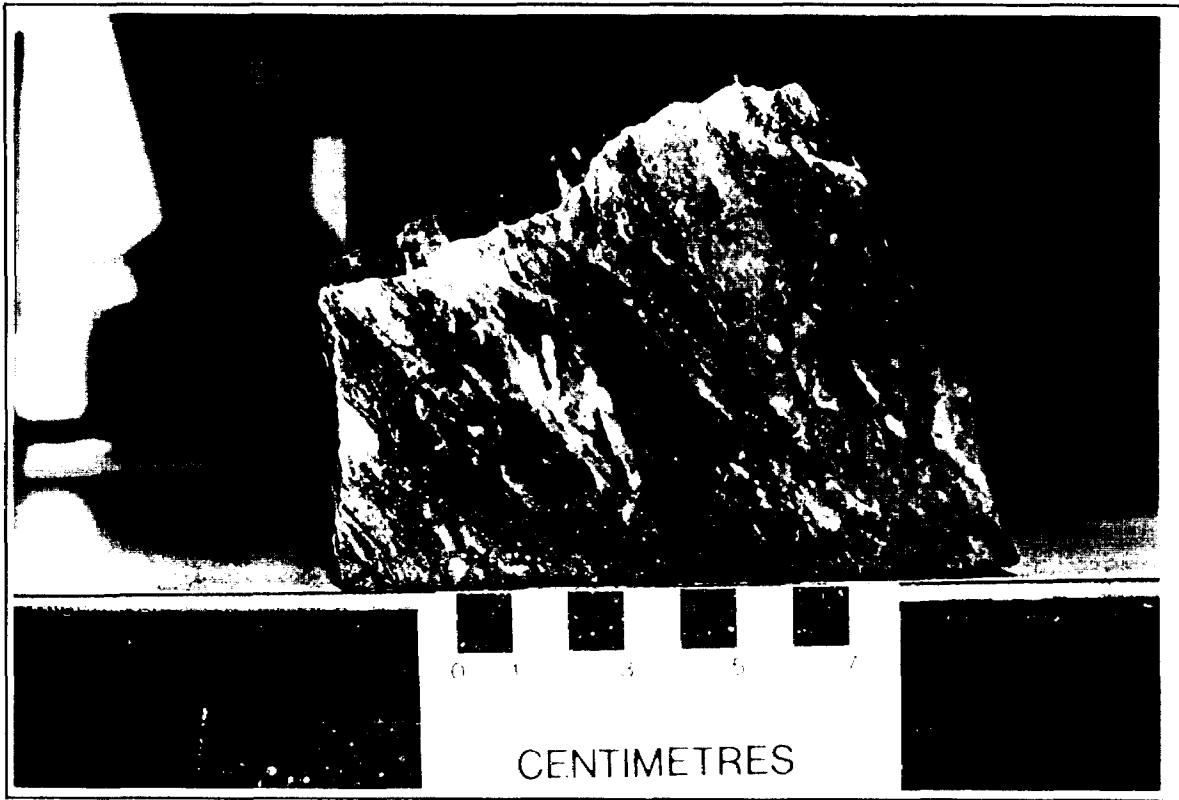
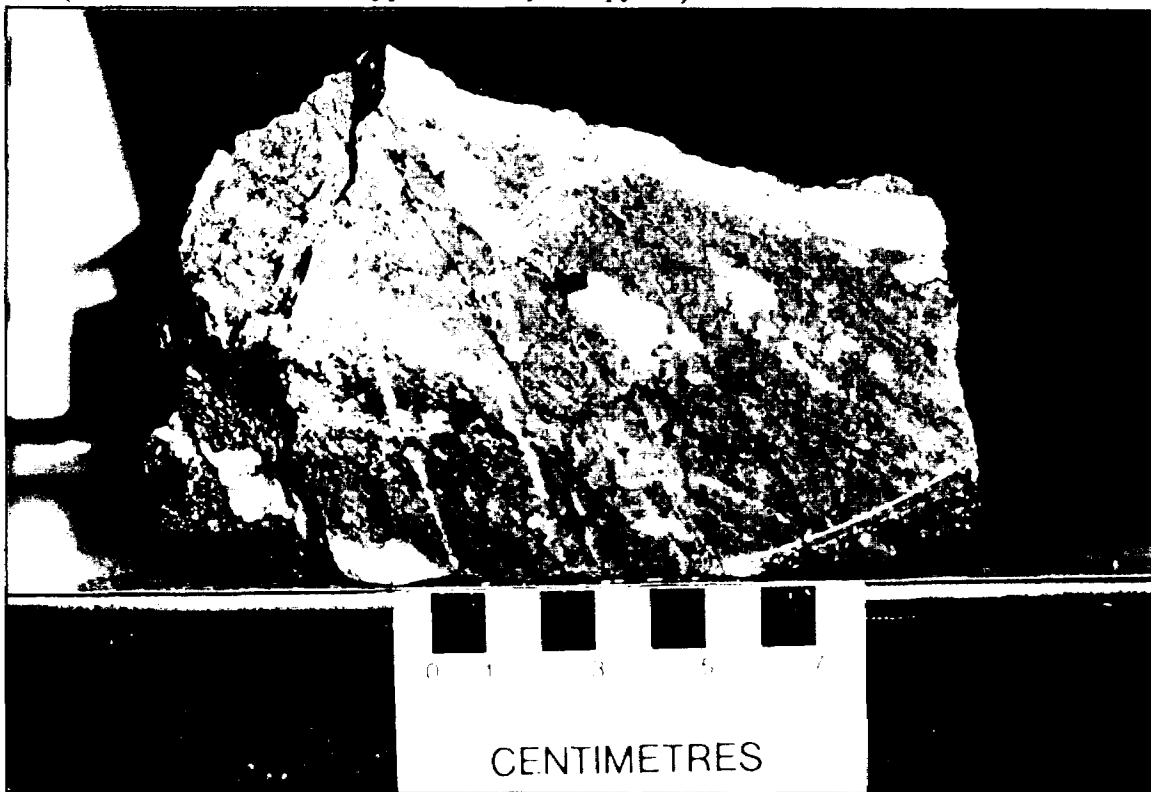


Plate 3 - Near Footwall - Main Trench
(carbonate - silicified, approximately 2% pyrite)



Initial grab samples of mineralized rock taken from the trench returned values of 2.9 to 4.4 g/t Au (Page, 1991). A set of near continuous chips taken over 1 m lengths through the mineralized/altered zone returned an average of 1.5 g Au/ton over 5 meters. The footwall of the zone is a unit of sericite schist with weak pyrite mineralization (trace to 1%). Grab samples taken in this section only returned up to 14 ppb Au. The strongly sericitized footwall rock is assumed to be a highly altered sediment or feldspar porphyry.

Localized outcrops of metasediments were observed to be strongly altered with sericite and minor iron carbonate. Sericitized sediment/porphyry becomes somewhat more prevalent near the inferred fault contact between the sediments and volcanics. Three of these sericitized outcrops with trace to 1% pyrite were sampled for gold. Samples 4993, 4995 and 4996 located at L13+00mE, 0+20mN; L25+00mE, 1+65mS; 26+25mE, 0+10mS respectively all returned nil (below detection limit) values for gold. A strong shear containing trace pyrite within a greywacke/argillite located at L34+00mE, 1+60mS returned an assay of 41 ppb Au. The majority of sediments encountered during the mapping program were weakly altered to unaltered and devoid of mineralization.

The volcanics (mafic flow, crystal tuff and agglomerate) are of greenschist facies and are weakly to non-mineralized with pyrite (nil to trace). A few outcrops are weakly magnetic and probably contain a small amount of magnetite or pyrrhotite, although these are not visible. One small outcrop of mafic volcanic was strongly altered with iron carbonate and contained about 5% quartz stringers and is mineralized with 1% pyrite. This outcrop is located at L14+00mE; 1+48mN and returned a value of 134 ppb Au (Sample # 4994).

DISCUSSION AND RECOMMENDATIONS

The Minnitaki property is an early stage grassroots gold property. Teck became interested in the property following a routine property examination. Samples taken from the main trench returned strongly anomalous gold assays (2.9 to 4.4 g/t Au).

The main trench exposes a mineralized contact separating a unit of mafic volcanics to the north, and a unit of metasediments to the south. The contact zone is a carbonate (ankerite)

-silica-altered shear with 3-5% pyrite and trace molybdenite mineralization approximately 5 m in thickness. The pyrite \pm molybdenite (\pm Au) mineralization is unusual and somewhat resembles siliceous ore at Hemlo.

A mapping program was completed during the fall of 1991 by Teck. This preliminary geological survey failed to locate any additional exposures of the contact zone. This is not surprising; a mineralized shear is easily weathered (compared to country rock) and more susceptible to glacial action. Therefore, one would expect such a structure to be covered with overburden. Mapping of the property outcrops did succeed in isolating areas where the volcanics and sediments are in close proximity (50-150 m) particularly from L7+00mE to L15+00mE and L25+00mE to L35+00mE (Dwg. 6676). These locations may lend themselves well to mechanical stripping.

Based on Teck, and to some extent O.G.S., mapping the volcanic/sediment contact has a minimum prospective strike length of 2.8 km within the property boundary. The contact extends west-southwest off the property beneath the waters of Minnitaki Lake and re-emerges on Ruby and Neepawa Islands (O.G.S.). Limited strike length continues east northeast off the claim group as well (Figure 3).

Further exploration of the Minnitaki property is warranted in 1992. The focus of continued work should be on the volcanic/sediment contact structure to determine its quality and/or economic significance as an auriferous structure. The following exploration program is recommended.

1. Line Cutting: extend lines from the south shore onto the ice of Minnitaki Lake (January, 1992).
2. Mag-VLF Survey: survey entire grid (January-February, 1992)
3. I.P. Survey: define and extend mineralized contact structure (February-March, 1992).
4. Trenching: strip and sample volcanic/sediment contact where overburden and geological control favourable (June-July, 1992)
5. Diamond Drilling: test auriferous structure at depth and along strike (August-October, 1992).

The cost of the proposed exploration program on the Minnitaki property in 1992 is estimated at \$160,000.00 and is summarized in Table 2.

TABLE 2
PROPOSED BUDGET
1992 EXPLORATION PROGRAM - MINNITAKI PROPERTY

Option Payments	\$ 10,000.00
Line Cutting (ice)	1,250.00
Magnetometer - VLF Survey (35 km @ \$250/km)	8,750.00
I.P. Survey (15 km @ \$1500/km)	22,500.00
Geologist	13,750.00
Labour	1,875.00
Trenching (backhoe + operator)	10,000.00
Drilling (1000 m @ \$75/m)	75,000.00
Field & Transportation Expenses	9,775.00
Drafting & Supervision	3,500.00
Assaying - Geochemistry	<u>3,600.00</u>
Total	<u>\$160,000.00</u>

Currently a letter of intent exists between Teck and the property vendor - Ken Bernier of Sioux Lookout, Ontario. A formal option agreement between Teck and Bernier is pending and should be finalized prior to 1992.

Respectfully submitted,
TECK EXPLORATION LTD.

Jim Janzen
November 20, 1991

REFERENCES

Beakhouse, G.P.

1988: OGS Misc. paper 141; 13. Project Number 88-7. The Wabigoon-Winnipeg River Subprovince Boundary Problem, pg. 108-114.

Hurst, M.E. and Thomson, J.E.

1933: ODM Geological Report Vol. XLI, Part VI, 1932: Geology of the Sioux Lookout Area, by M.E. Hurst pgs. 1-33: Geology of the Heron Bay-White Lake Area by Jas. E. Thomson pgs. 34-47.

Map No. 41h - Sioux Lookout Area. Scale 1½ mile to the inch.

Map No. 41j - Heron Bay-White Lake Area. Scale 2 miles to the inch.

Johnston, F.J.

1972: ODM Geological Report 101: Geology of the Vermilion-Abram Lakes Area, District of Kenora.

Map 2242 - Vermilion Lake Sheet, Kenora District. Scale 1 inch to ½ mile.

Map 2243 - Abram Lake Sheet, Kenora District. Scale 1 inch to ½ mile.

Marsh, H.W.

1951: Geological Report on the McCombe Group, Drayton Township, Minnitaki Lake Area of Ontario.

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1977: Physical Volcanology of an Archean Vent Complex, Minnitaki Lake Area, Northwestern Ontario, Report of Activities, Part A; Geol. Surv. Can., Paper 77-1A (1977).

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Turner, C.C. and Walker, R.G.

1973: Sedimentology, Stratigraphy, and Crustal Evolution of the Archean Greenstone Belt near Sioux Lookout, Ontario. *Can. J. Earth Sci* 10, pg 817 (1973).

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1971: Archean Sedimentation: Analysis of the Minnitaki Basin, Northwestern Ontario, Canada; *Geological Society of America Bulletin*, v. 82, p. 2099-2130, August, 1971.

APPENDIX A
CLAIM STATUS

APPENDIX A

Claim Status

<u>Claim No.</u>	<u>No. of Unit</u>	<u>Date Recorded</u>	<u>Due Date</u>
Pa 1119709	n/a	January 29, 1990	January 29, 1992 *
Pa 1119710	n/a	January 29, 1990	January 29, 1992 *
Pa 1119711	n/a	January 29, 1990	January 29, 1992 *
Pa 1119712	n/a	January 29, 1990	January 29, 1992 *
Pa 1119713	n/a	January 29, 1990	January 29, 1992 *
Pa 1119714	n/a	January 29, 1990	January 29, 1992 *
Pa 1119715	n/a	January 29, 1990	January 29, 1992 *
Pa 1119716	n/a	January 29, 1990	January 29, 1992 *
Pa 1119717	n/a	January 29, 1990	January 29, 1992 *
Pa 1119718	n/a	January 29, 1990	January 29, 1992 *
Pa 1119719	n/a	January 29, 1990	January 29, 1992 *
Pa 1119720	n/a	January 29, 1990	January 29, 1992 *
Pa 1119721	n/a	January 29, 1990	January 29, 1992 *
Pa 1119722	n/a	January 29, 1990	January 29, 1992 *
Pa 1119723	n/a	January 29, 1990	January 29, 1992 *
Pa 1145174	4	July 11, 1991	July 11, 1993 **
Pa 1145175	6	July 11, 1991	July 11, 1993 **

* Under Extension

** In good Standing

APPENDIX B
CLAIM ABSTRACTS



Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 5, 1990 12:40 P.M.	P.T. X
Office Use Only		Days Recorded	Balance
Assessment Work Credits Assigned to other Claims			
		Description of Claim DRAYTON TWP. G-3379	
		Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.	
		Other Reservations Under the Mining Act May Apply	
		File No. R 9003-011	

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		0910-007 (09103-007)
		<div style="border: 1px solid black; padding: 5px;"> <p>This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p>JUN 12 1991</p> <p><i>R. Maier</i> Mining Recorder PATRICIA MINING DIVISION</p> </div>

Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 5, 1990 10:20 A.M.	P.T. X
Office Use Only		Days Recorded	Description of Claim DRAYTON TWP. G-3379
Assessment Work Credits Assigned to other Claims		Balance	
			Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.
			Other Reservations Under the Mining Act May Apply
			File No. R9003-011

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		09130-007 (09103-007)
		This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim. JUN 12 1991 <i>R. Maxler</i> Mining Recorder PATRICIA MINING DIVISION

Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 7, 1990 9:20 A.M.	P.T. X
Office Use Only		Days Recorded	Balance
Assessment Work Credits Assigned to other Claims			
		Description of Claim DRAYTON TWP. G-3379	
		Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.	
		Other Reservations Under the Mining Act May Apply	
		File No. R9003-011	

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		<i>09130-001</i> <i>(09103-007)</i>
		This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim. JUN 12 1991 <i>R. Maxler</i> Mining Recorder PATRICIA MINING DIVISION



Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
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Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 6, 1990 2:10 P.M.	P.Y. X
--	--	--	------------------

Office Use Only		Days Recorded	Balance	Description of Claim DRAYTON TWP. G-3379
Assessment Work Credits Assigned to other Claims				
				Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.
				Other Reservations Under the Mining Act May Apply
				File No. R9003-011

Date	Days Work		
Jan. 7/91		(0C5) Commissioner extends time until and including January 29, 1992 for work and filing thereof	
		09150-007 (09703-007)	
<table border="1"> <tr> <td style="padding: 5px;"> This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim. JUN 12 1991 <i>R. Maickel</i> Mining Recorder PATRICIA MINING DIVISION </td> </tr> </table>			This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim. JUN 12 1991 <i>R. Maickel</i> Mining Recorder PATRICIA MINING DIVISION
This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim. JUN 12 1991 <i>R. Maickel</i> Mining Recorder PATRICIA MINING DIVISION			



Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 7, 1990 10:00 A.M.	P.T. X
Office Use Only	Days Recorded	Balance	Description of Claim
Assessment Work Credits Assigned to other Claims			DRAYTON TWP. G-3379
			Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.
			Other Reservations Under the Mining Act May Apply
			File No. R9003-011

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		09120-207 (09103-007)
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p>JUN 12 1991</p> <p><i>R. Maicher</i> Mining Recorder PATRICIA MINING DIVISION</p> </div>		

Claim

Mining Act

Claim No.

Pa. 1119720

Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 7, 1990 11:50 A.M.	P.T. X
Office Use Only		Days Recorded	Balance
Assessment Work Credits Assigned to other Claims			
		Description of Claim DRAYTON TWP. G-3379	
		Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.	
		Other Reservations Under the Mining Act May Apply	
			File No. R9003-011

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		09103-007 (09103-007)
		<div style="border: 1px solid black; padding: 5px;"> <p>This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p>JUN 12 1991</p> <p><i>R. Maxler</i> Mining Recorder PATRICIA MINING DIVISION</p> </div>



Northern Development and Mines

Claim

Mining Act

Claim No. Pa. 1119721

Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0			Date and Time of Staking January 8, 1990 11:50 A.M.
Office Use Only		Days Recorded	Balance
Assessment Work Credits Assigned to other Claims			
		Description of Claim DRAYTON TWP. G-3379	
Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.			
Other Reservations Under the Mining Act Act May Apply			
			File No. R9003-011

Date	Days Work	
Jan. 7/91		(OC5) Commissioner extends time until and including January 29, 1992 for work and filing thereof
		09130-007 (09163-007)
		This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.
		JUN 12 1991
		<i>P. Naylor</i> Mining Recorder PATRICIA MINING DIVISION



Recorded in the Name of Ken Bernier		Licence No. S-3194	Date Recorded January 29, 1990
Address P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Date and Time of Staking January 7, 1990 1:00 P.M.	P.T. X
Office Use Only	Days Recorded	Balance	Description of Claim DRAYTON TWP. G-3379 Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved. Other Reservations Under the Mining Act May Apply
Assessment Work Credits Assigned to other Claims			
			File No. R9003-011

Date	Days Work		
Jan. 7/91		(0C5) Commissioner extends time until and including January 29, 1992 for work and filing thereof	
		(09103-007) (09103-007)*	
		<p>This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim</p> <p>JUN 12 1991</p> <p><i>R. Maxler</i> Mining Recorder PATRICIA MINING DIVISION</p>	



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Claim
Mining Act

Concession minière
Loi sur les mines

Client No./N° de client 107808		Licence No./N° de permis S-3194	Claim No./N° de concession minière Pa. 1145174
Recorded By/Enregistré par Ken Bernier		Date Recorded/Date de l'enregistrement July 11, 1991	
Address/Adresse P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Transaction No./N° de transaction R9130-5023	Completion Date and Time/Date et heure d'achèvement June 19, 1991 1:40 P.M.
Description of Claim/Description de la concession minière DRAYTON TWP. G-3379 S½ Lot 6 Con V		No. of Claim Units Nbre d'unités de concessions minières Four	Not Tagged Non marqué
		Total Work Assignment Dollars Used Total des sommes utilisées pour les travaux	
<p>Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved. Other reservations may apply. Réserves : Les droits de surface sont réservés sur 400 pieds sur le périmètre de tous les lacs et les rivières. Le sable, le gravier et la tourbe sont réservés. D'autres réserves peuvent s'appliquer.</p> <p>Including Land Under Water</p>			

Date	\$	
July 11/91		(T60) Ken Bernier (107808) records in the name of Teck Exploration Ltd. (200415) (R9130-5023)

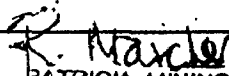
THIS Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.

JUL 19 1991

R. Maxder
Mining Recorder
PATRICIA MINING DIVISION



Client No./N° de client 107808	Licence No./N° de permis S-3194	Claim No./N° de concession minière Pa. 1145175
Recorded By/Enregistré par Ken Bernier		Date Recorded/Date de l'enregistrement July 11, 1991
Address/Adresse P.O. Box 1481 Sioux Lookout, Ontario POV 2T0		Transaction No./N° de transaction R9130-5023
Description of Claim/Description de la concession minière DRAYTON TWP. G-3379 S½ of N½ Lot 5 Con V S½ of Lot 5 Con V		Completion Date and Time/Date et heure d'achèvement June 19, 1991 5:20 P.M.
		No. of Claim Units Nombre d'unités de concessions minières Six
		Not Tagged Non marqué
Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved. Other reservations may apply. Réerves : Les droits de surface sont réservés sur 400 pieds sur le périmètre de tous les lacs et les rivières. Le sable, le gravier et la tourbe sont réservés. D'autres réserves peuvent s'appliquer.		Total Work Assignment Dollars Used Total des sommes utilisées pour les travaux
Including Land Under Water		

Date	\$	
July 11/91		(T60) Ken Bernier (107808) records in the name of
		Teck Exploration Ltd. (200415) (R9130-5023)
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 80%;"> <p style="font-size: small; text-align: center;">This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p style="font-size: large; text-align: center; margin-top: 10px;">JUL 19 1991</p> <p style="text-align: center; margin-top: 5px;">  Miner Recorder PATRICIA MINING DIVISION </p> </div>



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Mining Claim
Mining Act

Concession minière
Loi sur les mines

Client No./N° de client 107808	Licence No./N° de permis S-3194	Claim No./N° de concession minière Pa. 1145175
Recorded By/Enregistré par Ken Bernier	Date Recorded/Date de l'enregistrement July 11, 1991	
Address/Adresse P.O. Box 1481 Sioux Lookout, Ontario POV 2T0	Transaction No./N° de transaction R9130-5023	
Description of Claim/Description de la concession minière DRAYTON TWP. G-3379 S$\frac{1}{2}$ of N$\frac{1}{2}$ Lot 5 Con V S$\frac{1}{2}$ of Lot 5 Con V	Completion Date and Time/Date et heure d'achèvement: June 19, 1991 5:20 P.M.	
	No. of Claim Units Nbre d'unités de concessions minières Six	Not Tagged Non marqué
Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved. Other reservations may apply. Réserve : Les droits de surface sont réservés sur 400 pieds sur le périmètre de tous les lacs et les rivières. Le sable, le gravier et la tourbe sont réservés. D'autres réserves peuvent s'appliquer.	Total Work Assignment Dollars Used Total des sommes utilisées pour les travaux	
Including Land Under Water		

Date	\$	
July 11/91		(T60) Ken Bernier (107808) records in the name of Teck Exploration Ltd. (200415) (R9130-5023)
<p>This Abstract is a copy of the entries to the Record Book and is not to be considered as assurance of the validity of the claim.</p> <p>JUL 19 1991</p> <p><i>R. Maxwell</i> Mining Recorder PATRICIA MINING DIVISION</p>		

APPENDIX C
ASSAY CERTIFICATES



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Geochemical Analysis Certificate

1W-4180-RG1

Company: **TECK EXPLORATION LIMITED**
Project: 16070
Attn: MR.KEN THORSEN & MR.JIM JANZEN

Date: OCT-17-91
Copy 1. 2189 ALGONQUIN AVE. NORTH BAY,ONT.
2. P1B 4Z3 FAX TO 1-474-4053

We hereby certify the following Geochemical Analysis of 5 ROCK samples submitted OCT-15-91 by MR. JIM JANZEN.

Sample Number	Au PPB	Ag PPM	WRA PPM
4992	41	0.1	
4993	Nil	0.1	
4994	151/117	0.1	
4995	Nil	0.1	
4996	Nil	0.1	

16070

Certified by Donna Gardner



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Geochemical Analysis Certificate

1W-3776-RG1

Company: **TECK EXPLORATION LIMITED**
Project: **16070 P.O.# MINN**
Attn: **KEN THORSEN/ JIM JANZEN**

Date: **AUG-27-91**

Copy 1. 2189 ALGONQUIN AVE NORTHBAY ONT PIB 4Z3
2. FAX TO 1-474-4053

We hereby certify the following Geochemical Analysis of 09 ROCK samples submitted AUG-23-91 by KEN THORSEN.

Sample Number	Au ppb	Au check ppb
001181	72	
001182	412	
001183	2784	2750
001184	667	
001185	2095	2088
001186	707	
001187	14	
001188	10	
001189	799	806

Certified by _____



Ontario



52J04SE0001 2.14425 DRAYTON

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

March 3, 1992

Mining Recorder
Ministry of Northern Development
and Mines
Court House Building
P. O. Box 3000
Sioux Lookout, Ontario
POV 2T0

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

Our File: 2.14425
Your File: W.9130.5016

Dear Sir:

**SUBJECT: APPROVAL OF ASSESSMENT WORK SUBMITTED ON MINING CLAIMS
PA 1119709 ET AL DRAYTON TOWNSHIP.**

The assessment work credits for the Geology survey, section 12 Mining Act Regulations, submitted on the above work report have been approved as of March 3, 1992.

Please note the revised work credit form included with this correspondence.

Please indicate this approval on your records

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

TAA/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Sioux Lookout, Ontario

ASSESSMENT WORK CREDIT

FILE NUMBER: 2.14425

DATE: March 3, 1992

RECORDER'S REPORT NUMBER: W9130-5016

RECORDED HOLDER: Ken Bernier/Teck Explorations Ltd.

CLIENT NUMBER: 107808/200415

TOWNSHIP OR AREA: Drayton Township.

1) Assessment credit for geology over 17 mining claims.

Total assessment credit claimed: \$ 15,178.00

Level of assessment credit approved on march 3, 1992 is \$ 15,178.00

CLAIM NO. WORK DONE ON CLAIM	VALUE OF ASSESSMENT to this claim	VALUE APPLIED from claim	VALUE ASSIGNED	RESERV
pa 1119709	\$ 455.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119710	\$ 607.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119711	\$ 607.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119712	\$ 455.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119713	\$ 455.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119714	\$ 910.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119715	\$ 910.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119716	\$ 759.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119717	\$ 0.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119718	\$ 607.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119719	\$ 0.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119720	\$ 455.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119721	\$ 455.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119722	\$ 154.00	\$ 993.00	\$ 0.00	\$ 0
PA 1119723	\$ 759.00	\$ 993.00	\$ 0.00	\$ 0
PA 1145174	\$3,795.00	\$ 0.00	\$3795.00	\$ 0
PA 1145175	\$3,795.00	\$ 0.00	\$3512.00	\$283
15 claims	\$15,178.00	\$14,895.00	\$7307.00	\$283.

AMENDED.
Report of Work Conducted After Recording Claim
Mining Act

Transaction Number
W9130-5016

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14425

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) KEN BERNIER / TECK EXPLORATION LTD.		Client No. 107808 / 200415
Address P.O. Box 1481 Sioux Lookout, O.J. P0V2T0 / 2189 Algonquin Drive North Bay, Ont. P1B 4Z3		Telephone No. 807:737-2980
Mining Division PATRICIA	Township/Area DRAYTON	M or G Plan No. G-3379
Dates Work Performed From: MAY 28 - 30/91 AUGUST 17-18/91		To: SEPT. 11 - OCT. 3/91 SEPT. 30 - OCT. 11/91

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geological Survey	MAPPING, PROSPECTING, LINE CUTTING
<input type="checkbox"/> Physical Work, including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	JAN 27 1992
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~15177.66~~ 15178.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons Who Surveyed Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
R.O. Page / Jim Janzen	Teck Expl. 2189 Algonquin Dr. North Bay, Ont.
Ken Johnston	Wabigoon, Ont.
David Tarnocai	Brock University, Dept of Geology
Vytel Exploration's Services	1529 Rankin St. TBay, Ont (ES. Dawnic)

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
		(see attached originals)

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying		
Telephone No.	Date	Certified By (Signature)
		(see attached originals)

For Office Use Only

Total Value Cr. Recorded \$ 15177.66	Date Recorded DEC. 24/91	Mining Recorder R. Mijchals	Received Stamp RECORDED DEC 24 1991 Receipt SK
	Deemed Approval Date MAR. 24/92	Date Approved MAR. 24/92	
	Date Notice for Amendments Sent		

Report of Work Conducted After Recording Claim

Transaction Number
W9130-5016

MINING LANDS

Mining Act

2.14425

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) KEN BERNIER / TECK EXPLORATION LTD.		Client No. 107808 / 200415
Address P.O. Box 1481 Sioux Lookout, Ont. P0V2T0 / 2189 Algonquin Drive Norel Bay, Ont. P1B 4Z3		Telephone No. 807:737-2980
Mining Division PATRICIA	Township/Area DRAYTON	M or G Plan No. G-3379
Dates Work Performed From: MAY 28 - 30 / 91 AUGUST 17-18 / 91	To: SEPT. 11 - OCT. 3 / 91 SEPT. 30 - OCT. 11 / 91	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical	MAPPING, PROSPECTING, LINE CUTTING
<input type="checkbox"/> Physical Including Mapping	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECEIVED

JAN 20 1992

MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **15177.66**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
R.O. Page / Jim Larsen	Teck Expl. 2189 Algonquin Dr. Norel Bay, Ont.
Ken Johnston	Wabigoon, Ont.
David Tarnocai	Brock University, Dept of Geology
Vytal Antonis Sarius	1529 Rankin St. TBay, Ont (E.S. Dawson)

(attach a sketch if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
		(see attached originals)

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying		
Telephone No.	Date	Certified By (Signature)
		(see attached originals)

For Office Use Only

Total Value Cr. Recorded \$ 15177.66	Date Recorded DEC. 24 / 91	Mining Recorder R. Wright	Received Stamp RECORDED DEC 24 1991 Receipt SK
	Deemed Approval Date MAR. 24 / 91	Date Approved MAR. 24 / 91	
	Date Notice for Amendments Sent		

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
W9130-5016

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	1500 ⁹⁵	
	Field Supervision Supervision sur le terrain	3074 ⁷⁶	4574 ⁷⁶
Contractors and Consultants Fees Droits d'entrepreneurs et de conseil	Type		
	LINE CUTTING	8614 ⁹⁰	8614 ⁹⁰
Supplies Fournitures utilisées	Type		
	disc: flagging, paint, drafting, etc.	305 ⁹²	305 ⁹²
Equipment Rental Location de matériel	Type		
	Boat Rental 10 days @ \$35/dy	350 ⁹³	350 ⁹³
Total Direct Costs Total des coûts directs			13844 ⁹⁴

20% (2768⁹³)

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	Truck	182 ⁹²	182 ⁹²
Food and Lodging Nourriture et hébergement	Room / Board	1151 ⁹⁰	1151 ⁹⁰
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			1333 ⁹²
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			1333 ⁹²
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			15177 ⁹⁴

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Dates

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	NA

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as GEOLOGIST I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.


Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

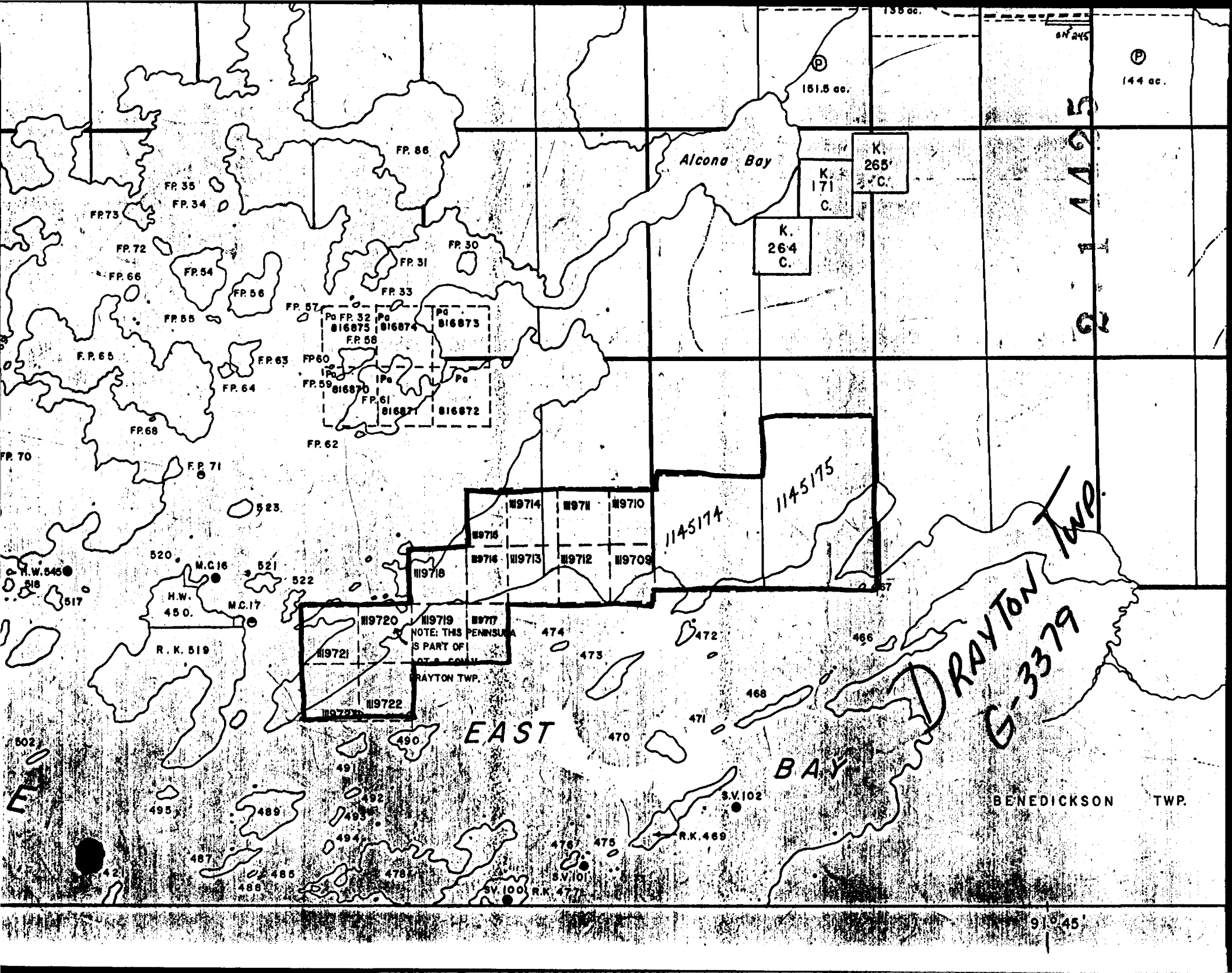
à faire cette attestation.

Signature (see attached originals) Date

FEB 25 '92 9:18 FROM MINING LANDS BRANCH

PAGE.002

- I, Jim Janzen HEREBY CERTIFY THAT:
1. I am a practicing geologist with Teck Exploration Ltd in North Bay, Ontario and reside at RR#1 Challenger, Ontario.
 2. I am a graduate of McMaster University Hamilton, Ontario, 1982 with a degree of B.Sc. (Geology).
 3. I have practiced my profession for approximately 9 yrs. years since graduation.
 4. I hereby certify that I have personal and intimate knowledge of the facts set forth in this report, having performed the work or witnessed same during and/or after its completion and report it is true.
 5. I have based conclusions and recommendations contained in this report on knowledge obtained from work conducted on the property between August, 1991 and Oct, 1991.
- 
dated at North Bay, Ontario
this 25 day of Feb., 1992.



151.5 ac.

144 ac.

Alcona Bay

K.
171
C.
265
C.

K.
264
C.

FP. 32
FP. 58
FP. 59
FP. 61
FP. 62
116875
116874
116873
116870
116871
116872

119714
119715
119716
119717
119718
119719
119720
119721
119722

1145174
1145175

NOTE: THIS PENINSULA
IS PART OF
[unclear]
DRAYTON TWP.

EAST

BAY

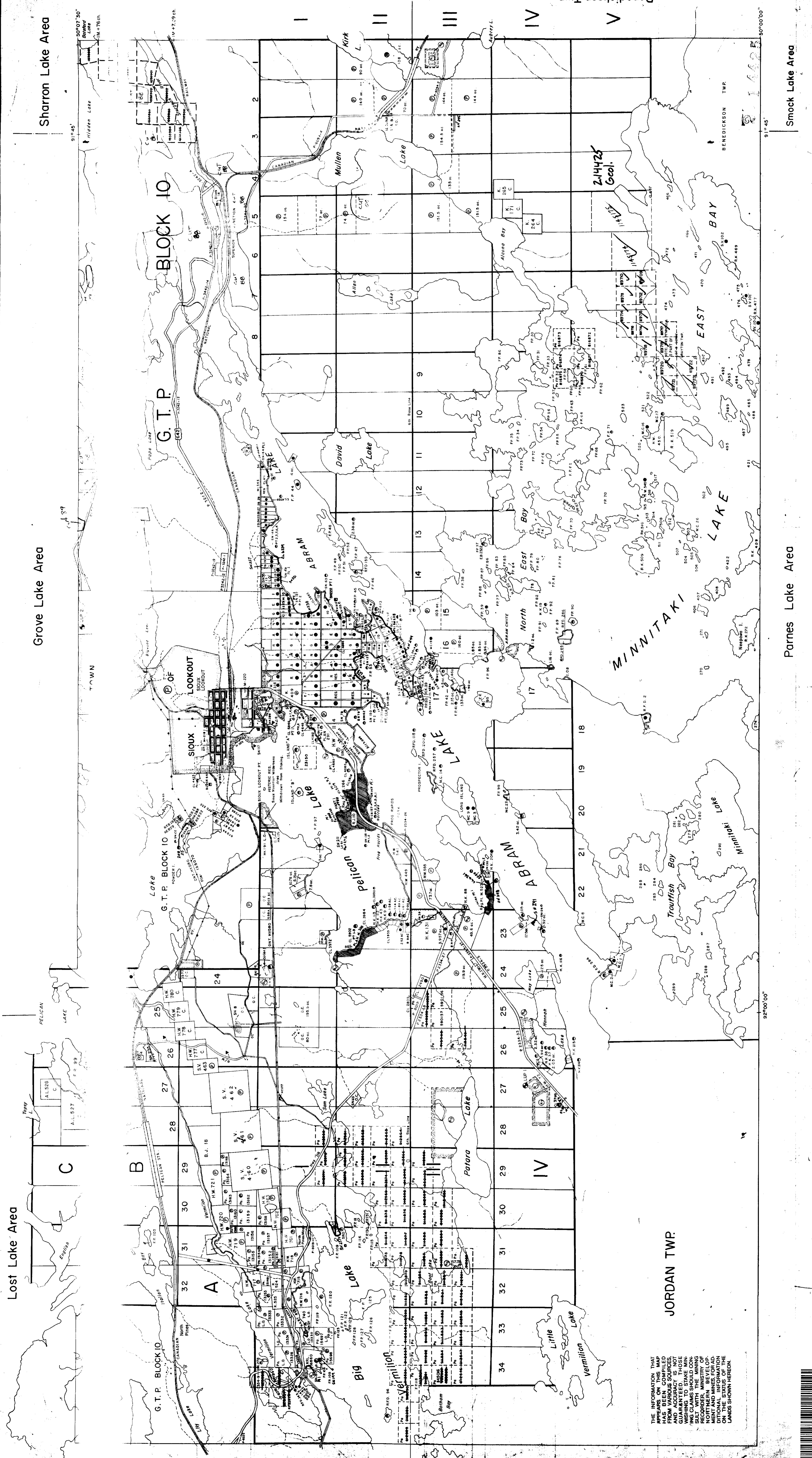
DRAYTON TWP.
G-3379

BENEDICKSON TWP.

617 245

2-14425

91045



RESERVATIONS
 ORIGINAL SHORELINE
 MARSH OR MUSKOG
 TRVERSE MONUMENT

DISPOSITION OF CROWN LANDS

UNSURVEYED LINES
 LOT LINES
 MINING CLAIMS
 RAILWAY AND RIGHT OF WAY
 UTILITY LINES

RESERVATIONS
 ORIGINAL SHORELINE
 MARSH OR MUSKOG
 TRVERSE MONUMENT

DISPOSITION OF CROWN LANDS

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DISPOSITION OF CROWN LANDS

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 LOT LINES
 MINING CLAIMS
 RAILWAY AND RIGHT OF WAY
 UTILITY LINES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.F.S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.
1843/70	44/74	1/17/74	S.R.O.

NOTES

1. THIS MAP IS A REPRODUCTION OF THE ORIGINAL RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

2. THE INFORMATION ON THIS MAP IS BASED ON THE RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

3. THE INFORMATION ON THIS MAP IS BASED ON THE RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

4. THE INFORMATION ON THIS MAP IS BASED ON THE RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

5. THE INFORMATION ON THIS MAP IS BASED ON THE RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

DRAYTON
 M.N.R. ADMINISTRATIVE DISTRICTS
 SIOUX LOOKOUT
 MINING DIVISION
 PATRICIA
 LAND TITLES / REGISTRY
 KENORA

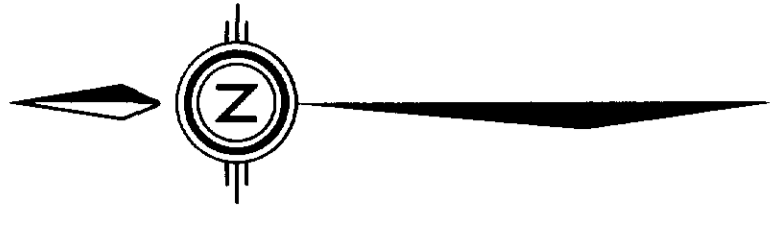
Ministry of Natural Resources
 Ontario

Scale: 1 INCH = 40 CHAINS

91°45' W, 50°00' N

THE INFORMATION ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. THE MINISTRY OF NATURAL RESOURCES, ONTARIO, DOES NOT WARRANT THE ACCURACY OF THE INFORMATION ON THIS MAP. THE INFORMATION ON THIS MAP IS BASED ON THE RECORDS OF THE MINING RECORDS OFFICE, MINISTRY OF NATURAL RESOURCES, ONTARIO.

200



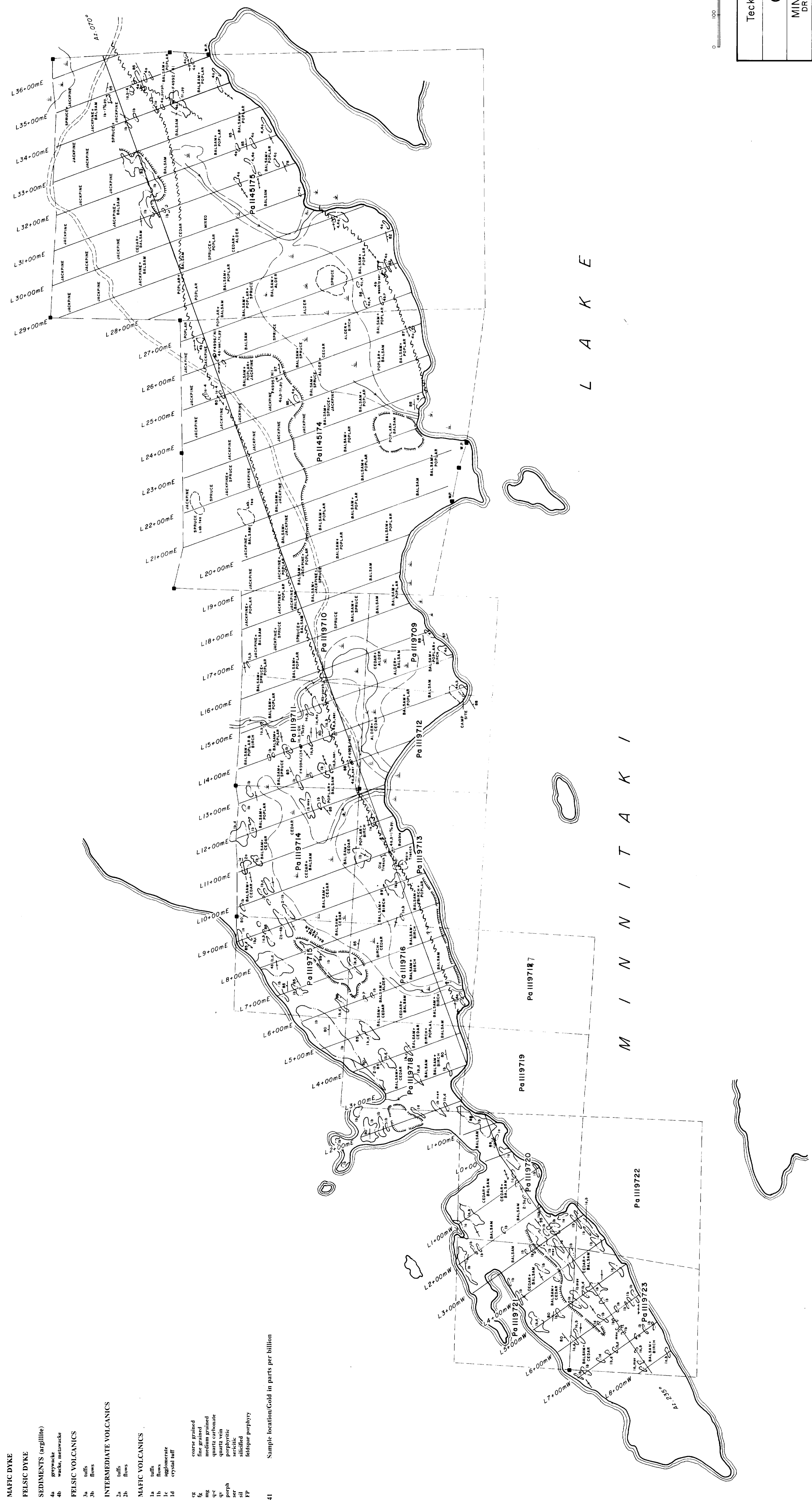
MINNITAKI PROJECT

LEGEND

- 9
- 8
- 4
- 3
- 2
- 1

- MAFIC DYKE
- FELSIC DYKE
- SEDIMENTS (argillite)
- 4a greywacke
- 4b wacke, meta-wacke
- FELSIC VOLCANICS
- 3a tuffs
- 3b flows
- INTERMEDIATE VOLCANICS
- 2a tuffs
- 2b flows
- MAFIC VOLCANICS
- 1a tuffs
- 1b flows
- 1c agglomerate
- 1d crystal tuff
- 5f coarse grained
- 5g porphyritic
- 5h medium grained
- 5i quartz carbonate
- 5j quartz vein
- 5k porphyritic
- 5l silicified
- 5m felspar porphyry

● 1:492/41 Sample location/Gold in parts per billion



2.14425

Scale 1 : 5000

Teck Exploration Ltd.

GEOLOGY

MINNITAKI PROPERTY
DRAYTON TWP., ONTARIO

J. JANZEN OCT./1991 16070 52/4-52K/1 6676

