

MERLEX ENGINEERING LTD.,
Consulting Geotechnical Engineers

MERLEX ENGINEERING LTD.

CONSULTING GEOTECHNICAL ENGINEERS



31L10SW0002 63.6357 ANTOINE

Reference No. 93/01/3000

February 15, 1993

010

R.M. Blais & Associates
P.O. Box 237
Pinewood Park Drive
North Bay, Ontario
P1B 8H2

Attention: Mr. R. M. Blais, P. Eng.

Re: Geotechnical Site Assessment
Butler - Antoine
Kyanite Project

Dear Sir:

As per your verbal authorization, we have carried out a site visit and report on the factual data along with our comments in this brief letter report.

On the morning of January 25, 1993, the site was visited by a senior member of our engineering staff to review the ground conditions at three testpits put down during our attendance on site. Following this work, an additional seven testpits (Testpits 4 to 10, inclusive) were put down by the client and brief logs supplied to the undersigned.

The location of all testpits are shown on the enclosed Testpit Plan supplied by the client. Elevations at the testpit locations were interpolated from the topography data available on this plan.

Date: February 15, 1993

SOIL CONDITIONS

Detailed descriptions of the soils encountered at Testpits 1 to 3 are shown on the enclosed Testpit Data Sheets. A general description (supplied by the client) of the soils encountered at Testpits 4 to 10 are also included on this logs. At all testpit locations, an organic cover consisting predominantly of a fibrous sandy black organics (with roots, leaves and other forest cover) was encountered at the testpits. This deposit ranged in thickness from 1 to greater than 7 feet (at the location of Testpit 9) but generally was in the order of 2 to 3 feet thick.

Directly underlying this organic cover, soils were predominantly granular consisting of sands with varying amounts of silts and gravels. It was noted that at the location of Testpit 1 a sand and gravel was encountered at the interface with the bedrock. Refusal to further penetration of the backhoe (bedrock) was encountered at Testpits 1, 2, 7, 8 and 10 at depths ranging between 5 to 13 feet below grade (elevation 1029.0 to 1021.0). At the other testpit locations, either bedrock was not encountered, to the depth at which the backhoe could excavate (i.e. approximately 15 foot depth) or to the depth where rapid cave in of the granular soils prevented further advance.

COMMENTS

Testpits put down under our direction encountered surface water inflow which created difficulties in maintaining the testpits open and advancing to the full capability of the backhoe. Establishing an accurate groundwater level was difficult, however, at this time of year it is anticipated to be close to existing grade.

Ref. No. 93/01/3000
Date: February 15, 1993

-3-

The results of this investigation indicate that underlying the organic deposits, soils are predominantly granular in nature and saturated at the time of this investigation. These materials can probably be successfully excavated using a dragline operation to the depth at which bedrock was encountered.

We trust that the factual data contained in this report and brief comments are sufficient for your present requirements. We look forward to serving you further on this project as your future requirements develop. Please do not hesitate to contact the undersigned.

Yours very truly,

MERLEX ENGINEERING LTD.



M. A. Merleau, P. Eng.

MAM/cl

Encl.

Testpit No. 1 Grade 1034.0

0 - 1.5' SANDY ORGANICS - black
1.5 - 3.0 Fine and medium SAND - coarse layer at bedrock surface
(see Grainsize No. 1)
3.0 BEDROCK - sloping to 5' depth at north end of testpit
End of Testpit

Testpit No. 2 Grade 1034.0

0 - 1.0' SANDY ORGANICS - black
1.0 - 13.0 FINE SANDS - some silt, gravel, cobble and occasional
boulder, wet below 3'
13.0 BEDROCK
End of Testpit

Testpit No. 3 Grade 1035.0

0 - 1.0' SANDY ORGANICS - black
1.0 - 10.0 Fine and medium SANDS - some silt, gravel and occasional
cobble
10.0 End of Testpit due to rapid cave-in

Testpit No. 4 Grade 1035.4

0 - 2.0' SANDY ORGANICS - black
2.0 - 15.0 SANDS - medium and fine sands, trace of silt
(see Grainsize No. 2)
15.0 End of Testpit - No Refusal

Testpit No. 5 Grade 1038.0

0 - 2.0' SANDY ORGANICS - black
2.0 - 15.0 SANDS - brown sands with gravel some silt
(see Grainsize No. 3)
15.0 End of Testpit - No Refusal

Testpit No. 6 Grade 1034.8

0 - 3.0' SANDY ORGANICS - black
3.0 - 11.0 SANDS
11.0 End of Testpit - No Refusal

Testpit No. 7 Grade 1033.7

0 - 2.0' SANDY ORGANICS - black
2.0 - 8.0 SANDS
8.0 BEDROCK
End of Testpit

Testpit No. 8 Grade 1036.3

0 - 3.0' SANDY ORGANICS - black
3.0 - 9.0 SANDS
9.0 BEDROCK
End of Testpit

Testpit No. 9 Grade 1036.0

0 - 7.0' ORGANICS - black
7.0 - 12.0 SAND & SILT (see Grainsize No. 4)
12.0 End of Testpit - No Refusal

Testpit No. 10 Grade 1039.0

0 - 4.0' ORGANICS - black
4.0 - 8.0 SANDS
8.0 BEDROCK
End of Testpit

LIST OF ABBREVIATIONS & DESCRIPTION OF TERMS

The abbreviations and terms commonly employed on the borehole logs, on the figures and in the report are as follows:

1. SAMPLE TYPES

- AS Auger Samples
- CS Chunk Sample
- DO Drive Open
- DS Denison Type Sample
- FS Foil Sample
- PH Sampler advanced by hydraulic pressure
- PH Sampler advanced by manual pressure
- RC Rock Core with Size and Percentage of Recovery
- ST Slotted Tube
- TO Thin-walled, Open
- TP Thin-walled, Piston
- WH Sampler advanced by static weight
- WS Wash Sample

2. PENETRATION RESISTANCE/"N"

Dynamic Cone Penetration Resistance:

A continuous profile showing the number of blows for each foot of penetration of a 2" diameter 90° point cone driven by a 140-pound hammer falling 30 inches. Plotted as —●—●—●—●—

Standard Penetration Resistance or "N" Value:

The number of blows of a 140 pound hammer falling 30 inches required to advance a 2 inch O.D. drive open sampler one foot into undisturbed soil. Plotted as "0"

3. SOIL DESCRIPTION

a) Cohesionless Soils:

<u>"N"</u> (blows/ft)	<u>Relative Density</u>
0 to 4	very loose
4 to 10	loose
10 to 30	compact
30 to 50	dense
over 50	very dense

b) Cohesive Soils:

<u>Undrained Shear Strength k.s.f.</u>	<u>Consistency</u>
Less than 0.25	very soft
0.25 to 0.50	soft
0.50 to 1.0	firm
1.0 to 2.0	stiff
2.0 to 4.0	very stiff
over 4.0	hard

c) Method of Determination of Undrained Shear Strength of Cohesive Soils:

+3.2 - Field vane test in borehole.

The number denotes the sensitivity to remoulding.

△ - Laboratory Vane Test

□ - Compression test in laboratory.

For a saturated cohesive soil the undrained shear strength is taken as one-half of the undrained compressive strength.

4. TERMINOLOGY

Terminology used for describing soil strata is based on the proportion of individual particle sizes present:

Trace, or occasional	Less than 10%
Some	10 to 20%
With	20 to 30%
Adjective (e.g. silty or sandy)	30 to 40%
And (e.g. sand and gravel)	40 to 60%

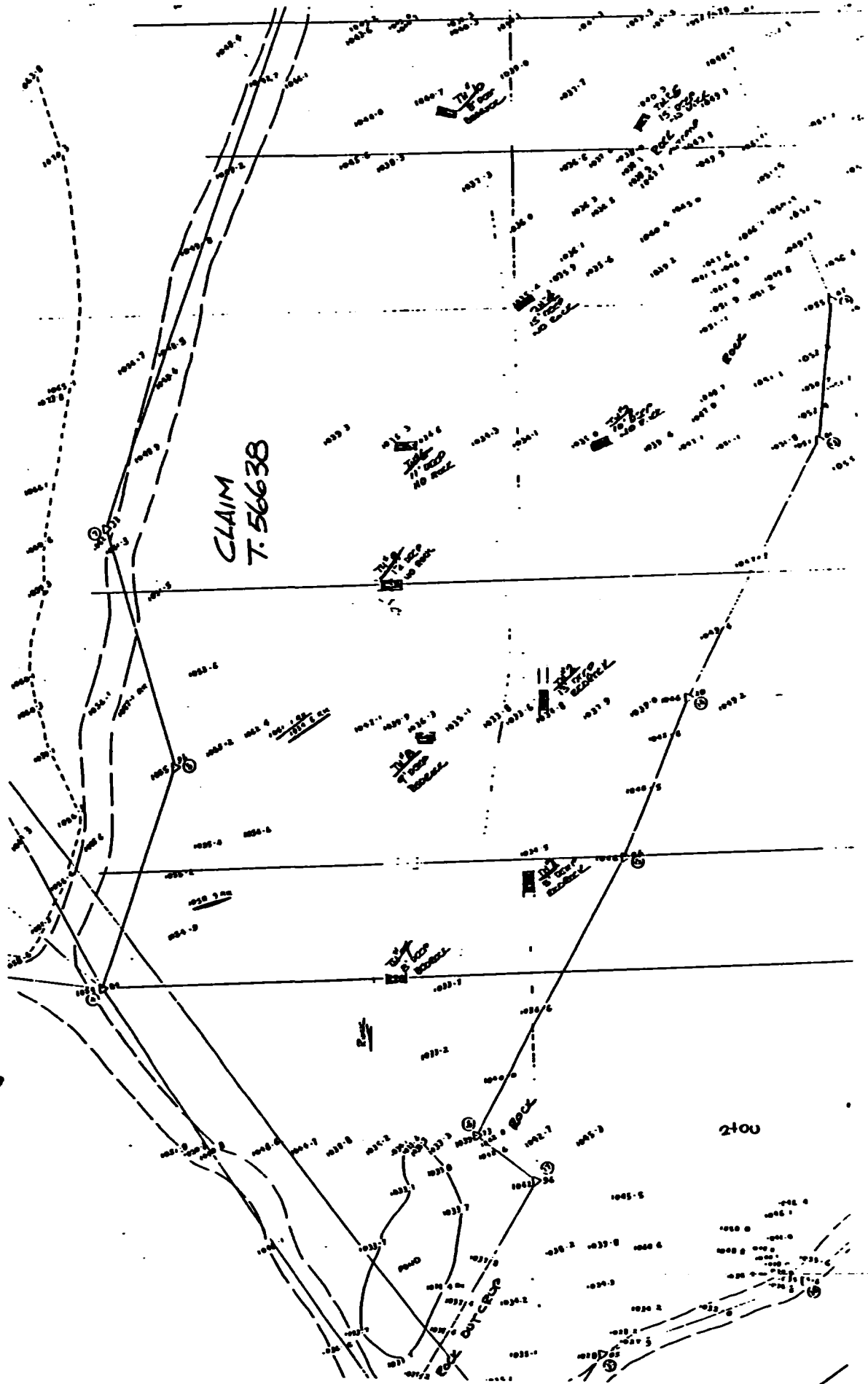
5. LABORATORY TESTS

- P - Standard Proctor Test
- A - Atterberg Limit Test
- GS - Grain Size Distribution
- H - Hydrometer Analysis
- C - Consolidation Test



REFERENCE NO 93/01/3000

ENCLOSURE A

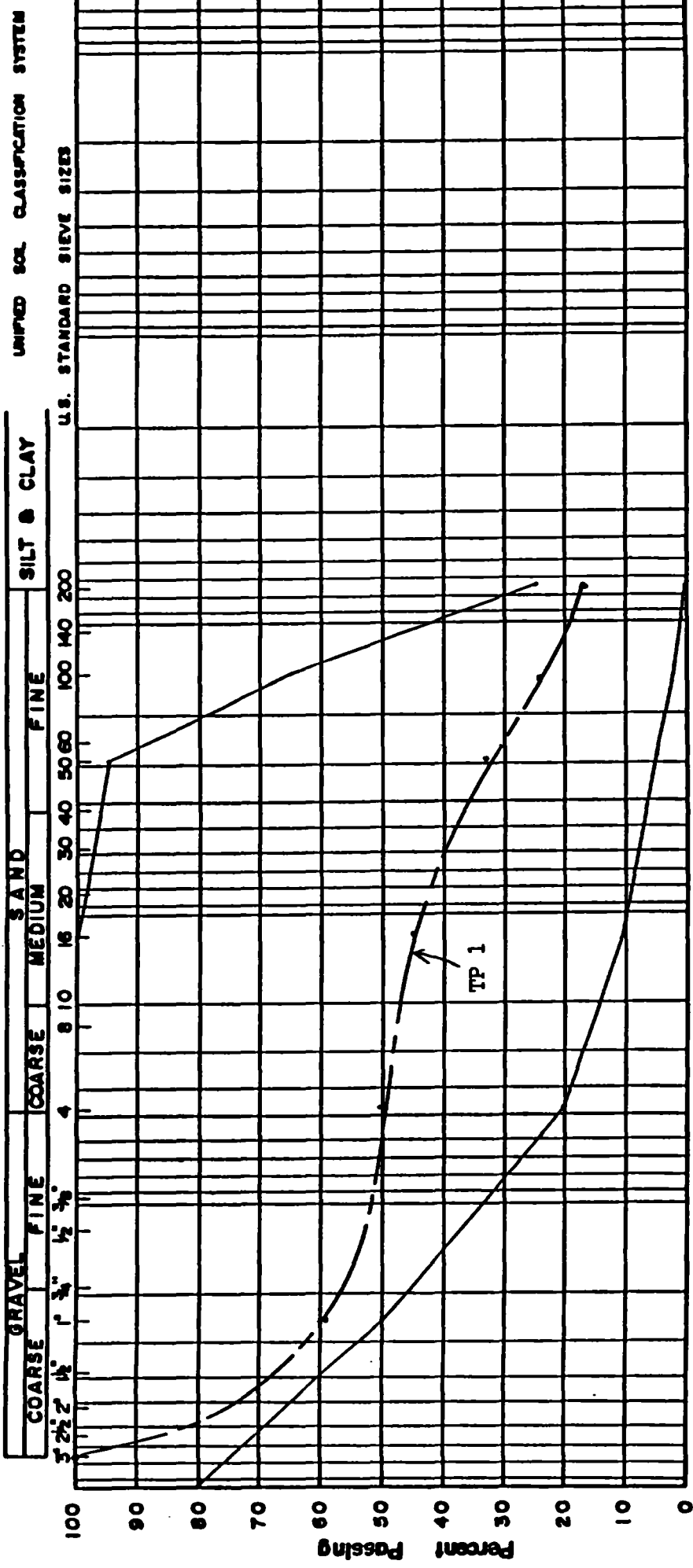


TESTPIT LOCATION PLAN
Kyanite Project - Butler/Antoine

MERLEX ENGINEERING LTD.
CONSULTING GEOTECHNICAL ENGINEERS



GRAIN SIZE DISTRIBUTION



PROJECT: Kyanite Project
 LOCATION: Butler - Antoine
 BOREHOLE NO:
 SAMPLE NO:
 DEPTH:
 ELEVATION:

COEFFICIENT OF UNIFORMITY:
 COEFFICIENT OF CURVATURE:

PLASTIC PROPERTIES
 LIQUID LIMIT %
 PLASTIC LIMIT %
 PLASTICITY INDEX %
 MOISTURE CONTENT %

Classification of Sample and Group Symbol:
 ONTARIO PROVINCIAL STANDARD SPECIFICATION
 1010 SELECT SUBGRADE MATERIAL

MERLEX ENGINEERING LTD.

GRAIN SIZE DISTRIBUTION

UNIFIED SOIL CLASSIFICATION SYSTEM

SILT & CLAY

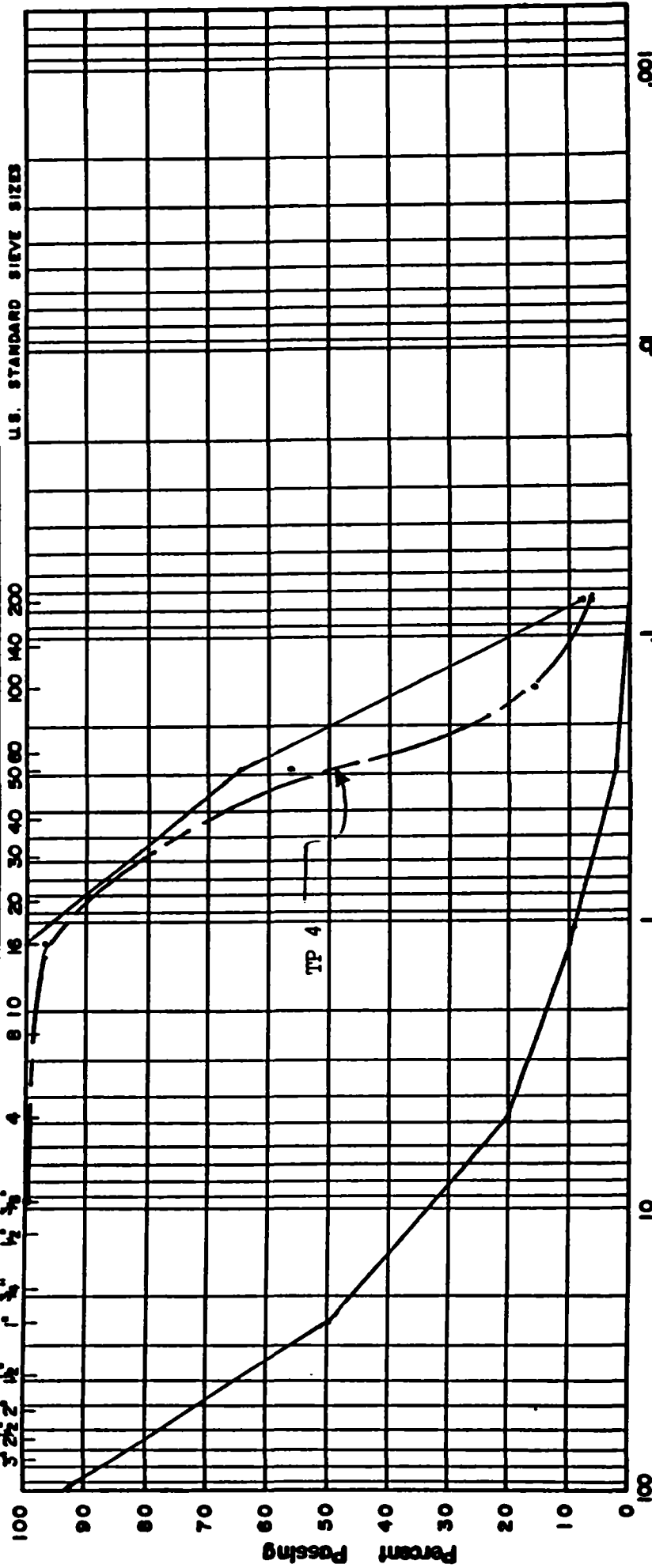
FINE SAND

MEDIUM SAND

COARSE SAND

FINE GRAVEL

COARSE GRAVEL



PLASTIC PROPERTIES
 LIQUID LIMIT %
 PLASTIC LIMIT %
 PLASTICITY INDEX %
 MOISTURE CONTENT %

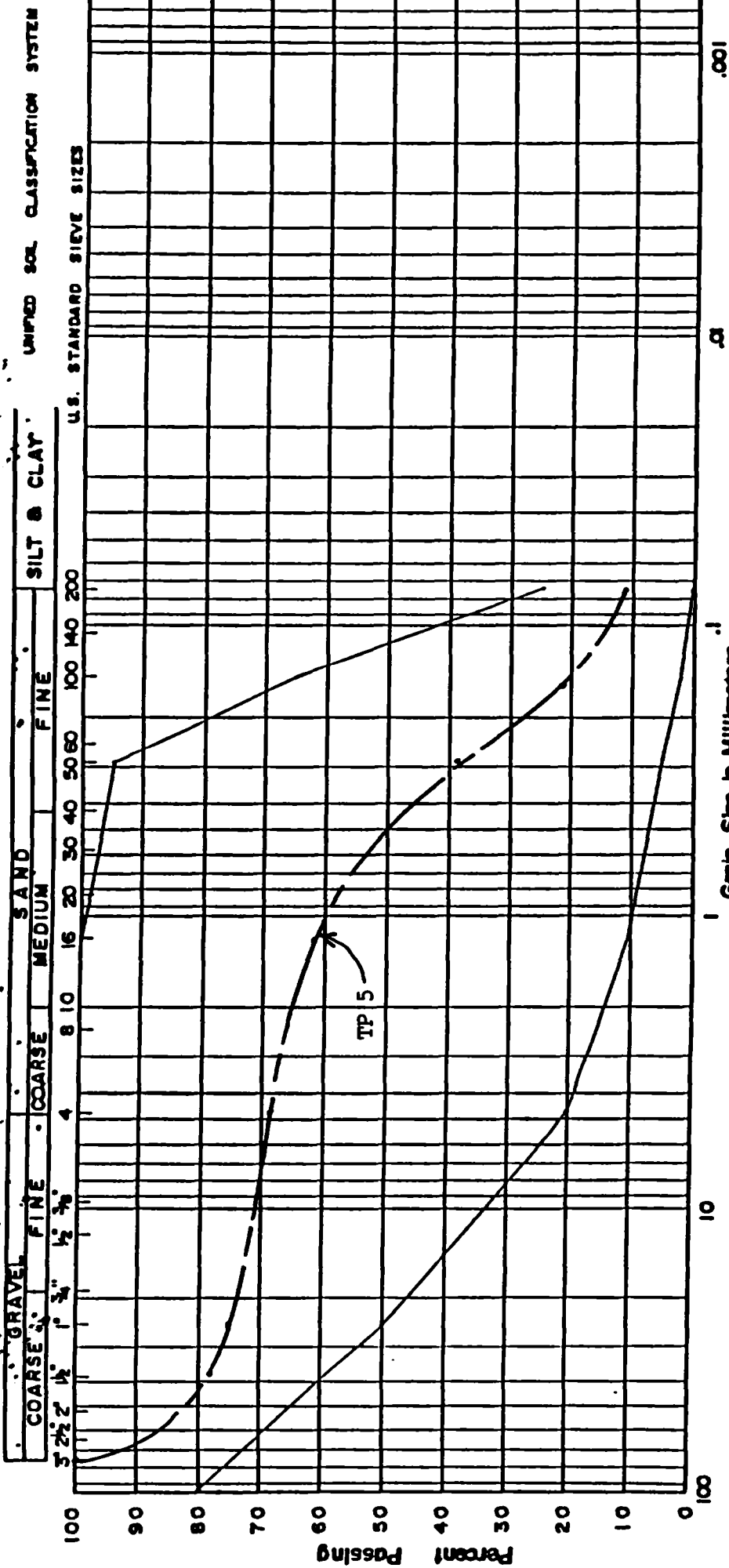
COEFFICIENT OF UNIFORMITY:
 COEFFICIENT OF CURVATURE:

Classification of Sample and Group Symbol:
 ONTARIO PROVINCIAL STANDARD SPECIFICATIONS
 1010 GRANULAR "B" TYPE I

PROJECT: Kyanite Project
 LOCATION: Butler - Antoine
 BOREHOLE NO:
 SAMPLE NO:
 DEPTH:
 ELEVATION:

MERLEX ENGINEERING LTD.

GRAIN SIZE DISTRIBUTION



PROJECT: Kyanite Project
 LOCATION: Butler - Antoine
 BOREHOLE NO:
 SAMPLE NO:
 DEPTH:
 ELEVATION:

COEFFICIENT OF UNIFORMITY:
 COEFFICIENT OF CURVATURE:

PLASTIC PROPERTIES

LIQUID LIMIT %
 PLASTIC LIMIT %
 PLASTICITY INDEX %
 MOISTURE CONTENT %

Classification of Sample and Group Symbol:
 ONTARIO PROVINCIAL STANDARD SPECIFICATION
 1010 SELECT SUBGRADE MATERIAL

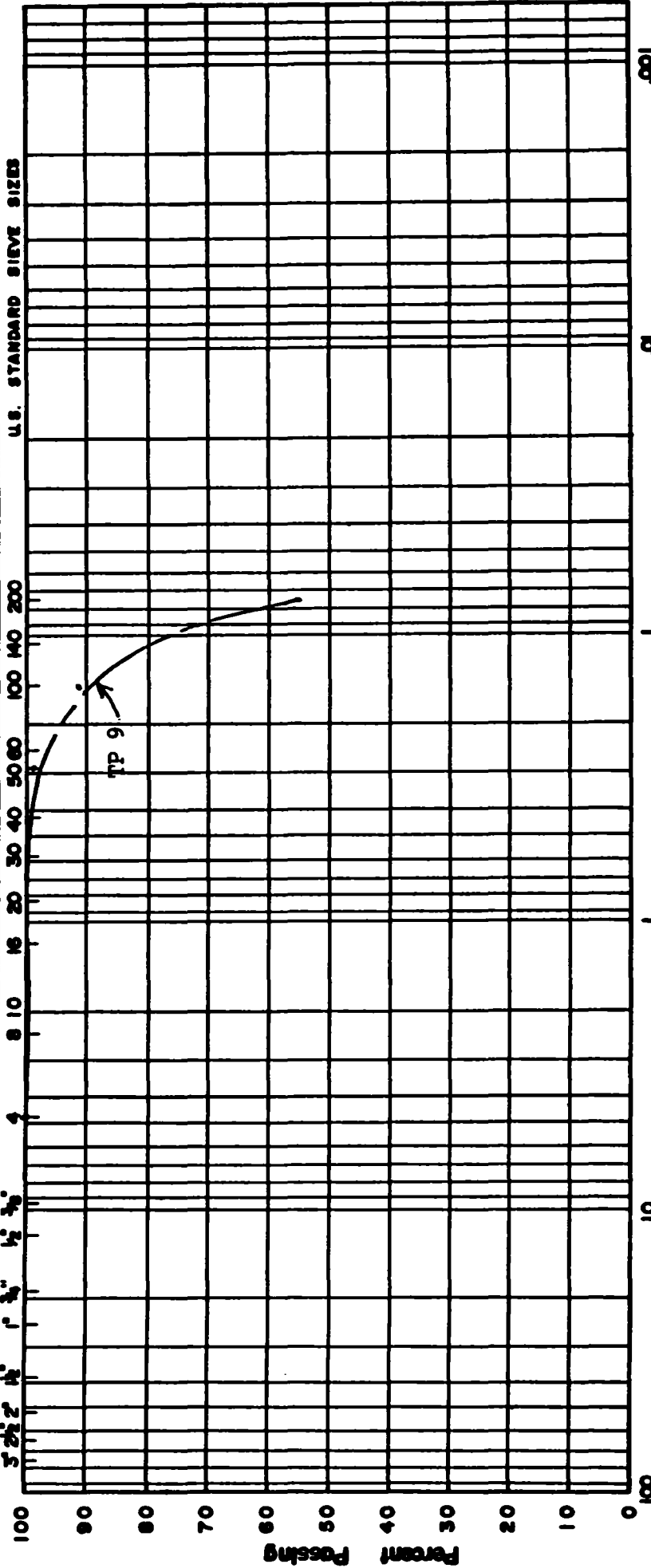
MERLEX ENGINEERING LTD.

GRAIN SIZE DISTRIBUTION

OUR REFERENCE NO. 3000

UNIFIED SOIL CLASSIFICATION SYSTEM

GRAVEL FINE SAND MEDIUM SAND COARSE SAND SILT & CLAY



PROJECT: Kyanite Project
 LOCATION: Butler - Antoine
 BOREHOLE NO.:
 SAMPLE NO.:
 DEPTH:
 ELEVATION:

COEFFICIENT OF UNIFORMITY:
 COEFFICIENT OF CURVATURE:

PLASTIC PROPERTIES
 LIQUID LIMIT %
 PLASTIC LIMIT %
 PLASTICITY INDEX %
 MOISTURE CONTENT %

Classification of Sample and Group Symbol:

MERLEX ENGINEERING LTD.

SUMMARY REPORT

OCTOBER 14, 1993

ROCK TYPE AND MINERALIZATION

BEDROCK IS A KYANITE, QUARTZ, MUSCOVITE,
BIOTITE, GARNET GNEISS

THE MINERAL SOUGHT IS KYANITE (INDUSTRIAL MINERAL)

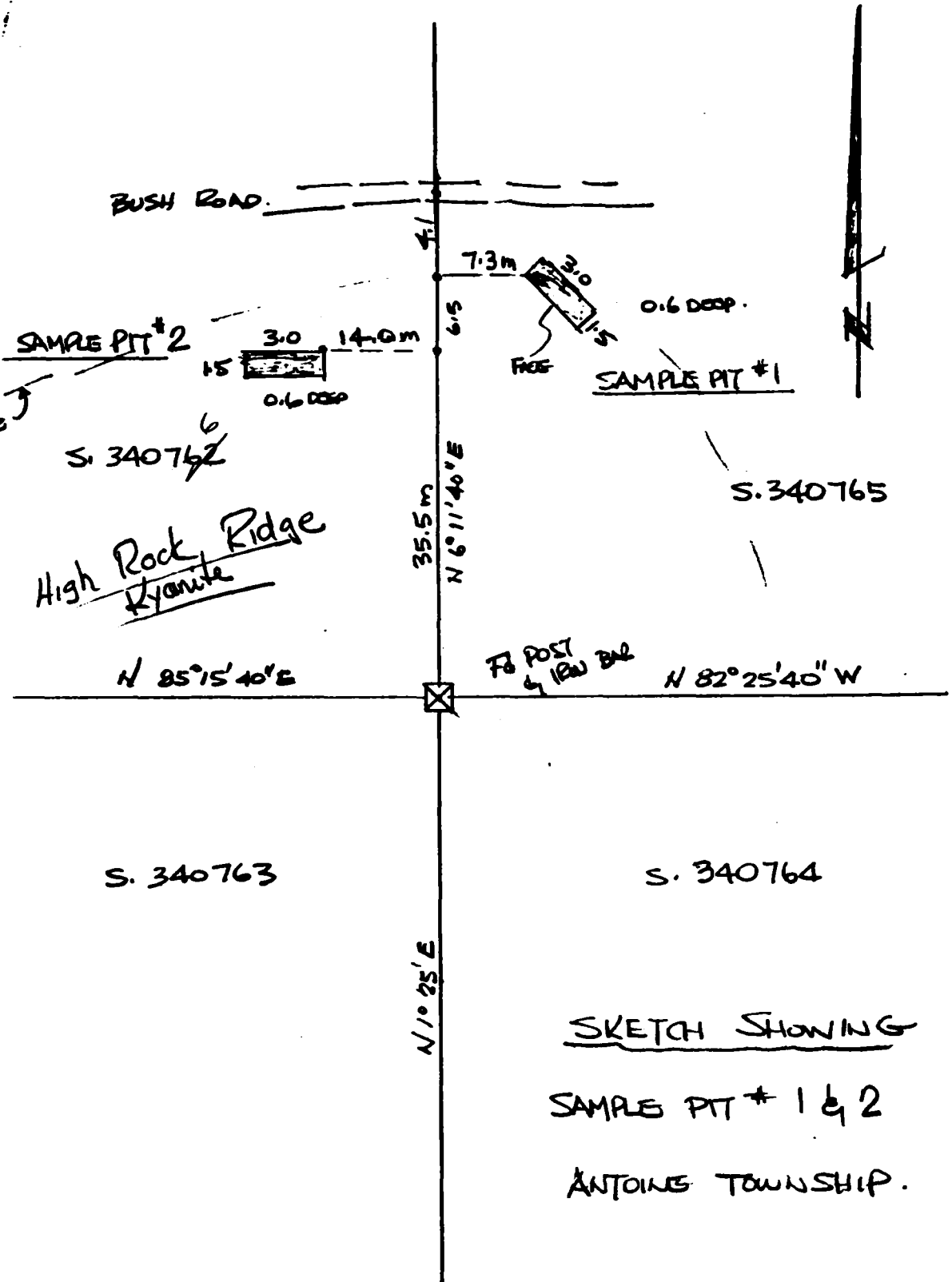
VERY MINOR PYRITE 1/4%

EQUIPMENT

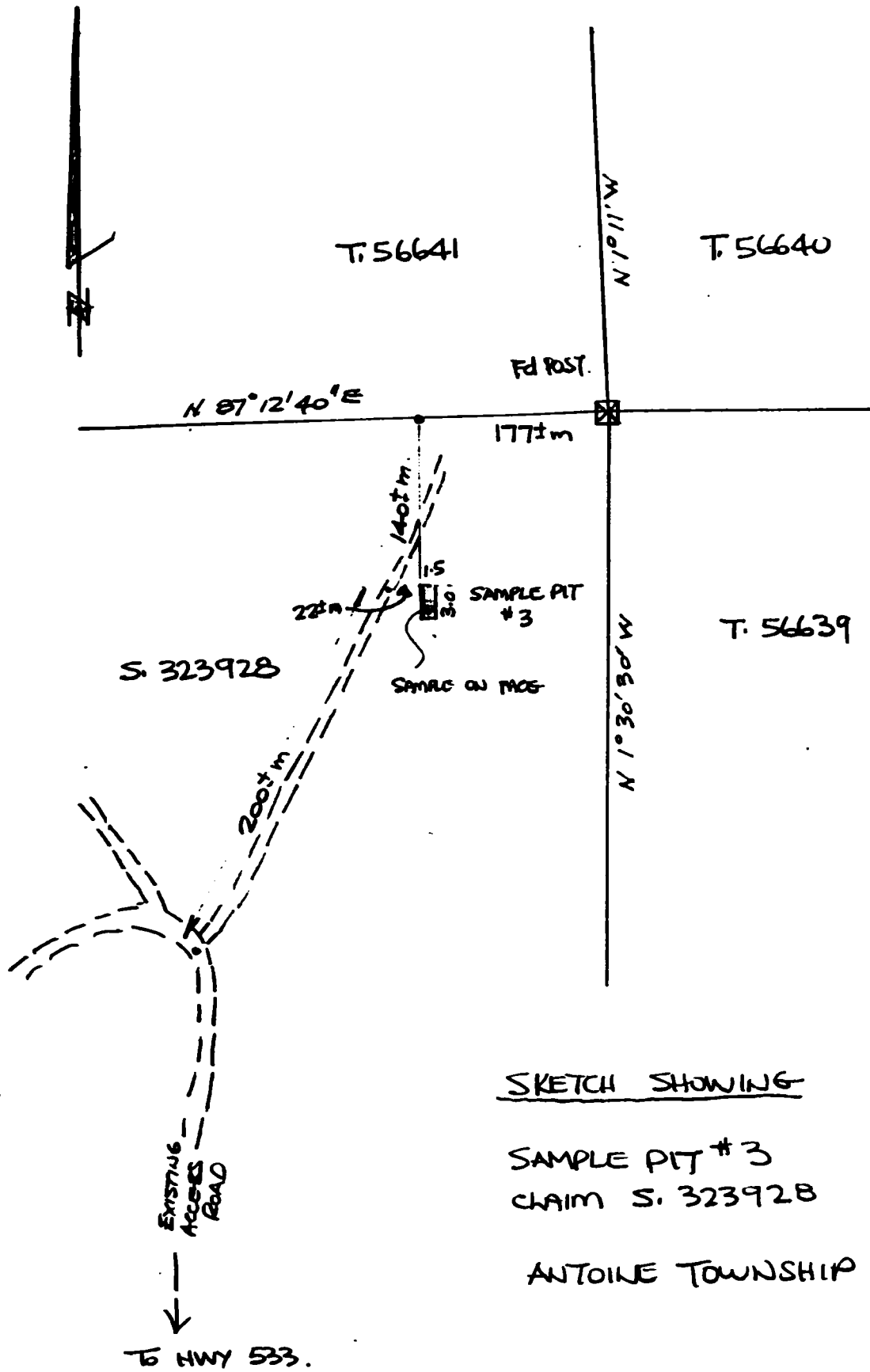
1. 1 1/4 C.Y. LINKBELT BACKHOE EXCAVATOR
2. D4 CAT DOZER
3. 2 - SERVICES TRUCKS 4X4 CHEV, DOOGG
4. 175 CFM LE ROI AIR COMPRESSOR
PLUS STEEL
BITS
NOSE ET.

BLASTING POWDER.

5. JD 540 RUBBER TIRE BACKHOE
6. FLOAT.



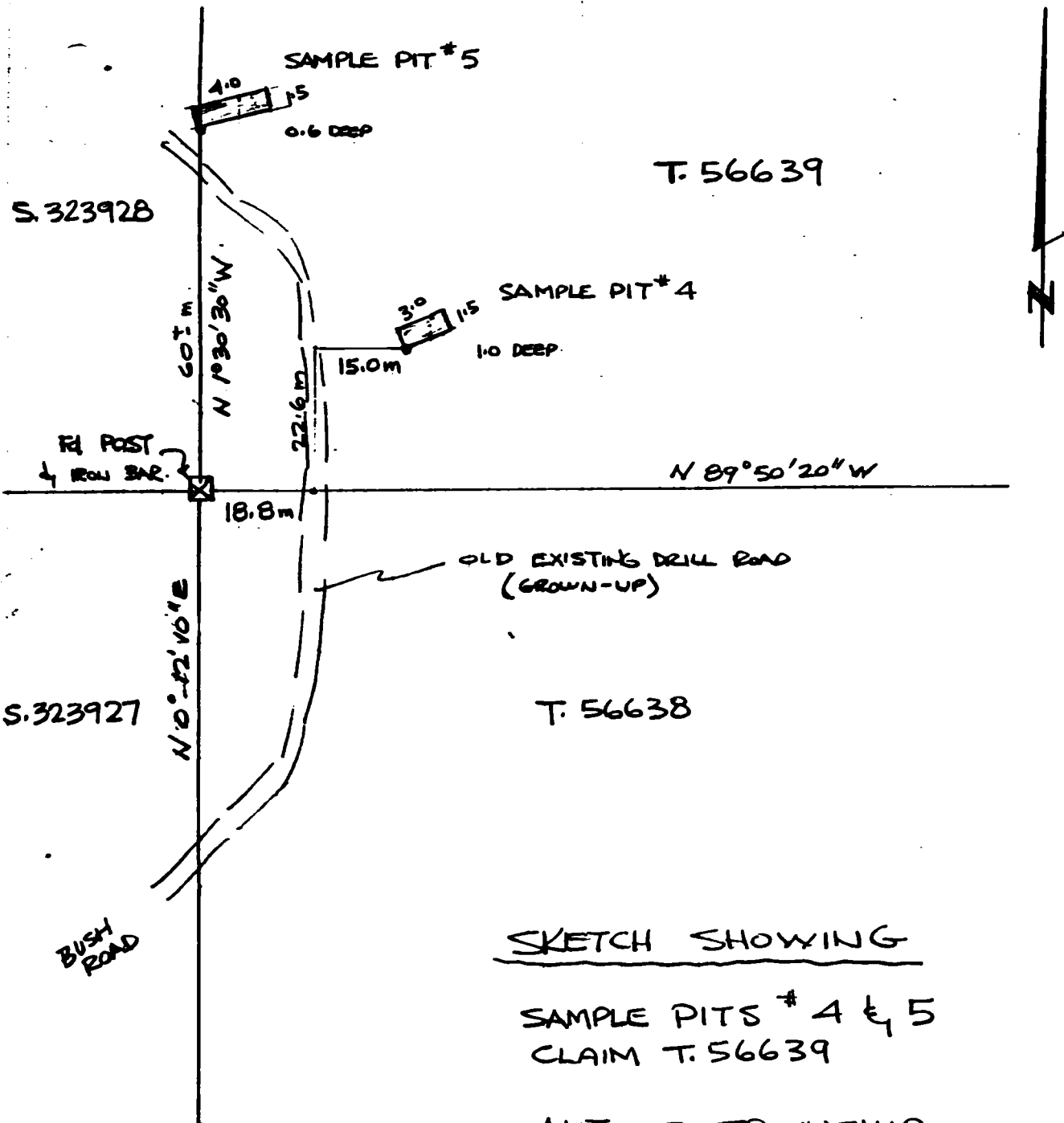
SKETCH SHOWING
 SAMPLE PIT # 1 & 2
 ANTOINE TOWNSHIP.



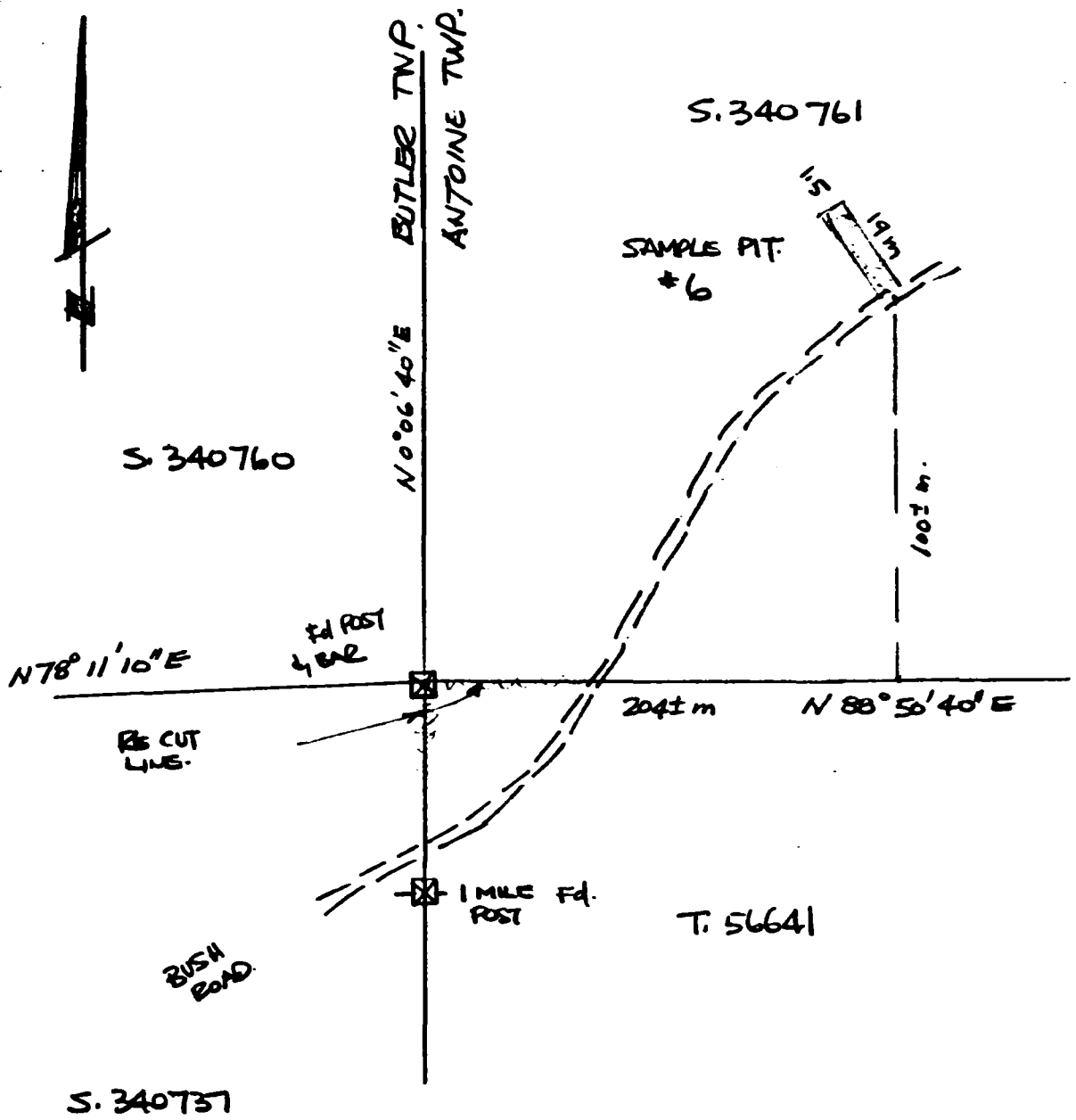
SKETCH SHOWING

SAMPLE PIT #3
 CLAIM S. 323928

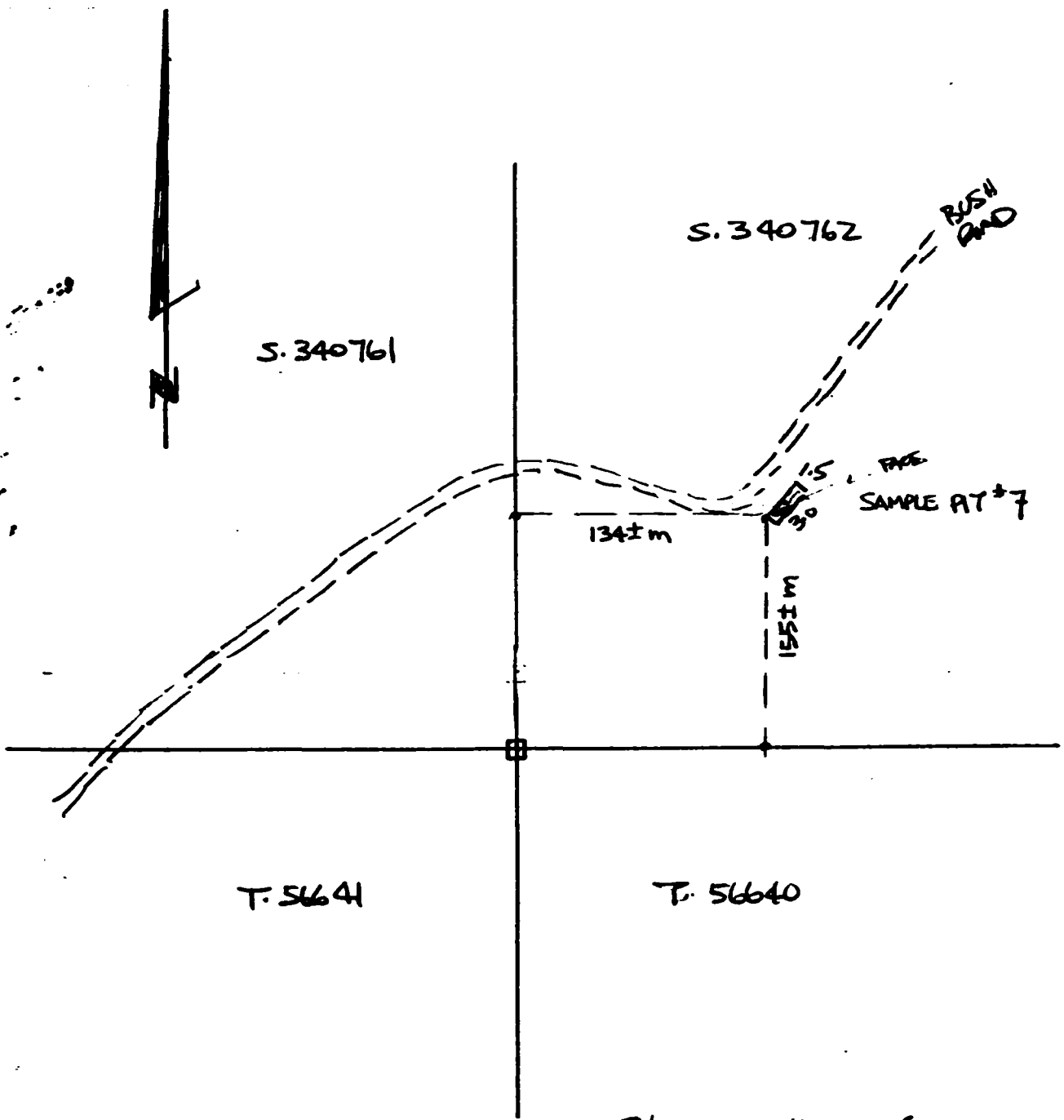
ANTOINE TOWNSHIP



SKETCH SHOWING
 SAMPLE PITS # 4 & 5
 CLAIM T. 56639
 ANTOINE TOWNSHIP.



SKETCH SHOWING
 SAMPLE PIT #6
 CLAIM S.340761
 ANTOINE TOWNSHIP.



SKETCH SHOWING

SAMPLE AT. # 7
CLAIM S. 340762

AUTOINE TOWNSHIP



MERLEX ENGINEERING LTD.

CONSULTING GEOTECHNICAL ENGINEERS

INVOICE

Ref. No. 93/01/3000
Inv. No. 93-008
February 26, 1993

R. M. Blais & Associates
P.O. Box 237
Pinewood Park Drive
North Bay, Ontario
P1B 8H2

Attention: Mr. R. M. Blais, P. Eng.

For professional services rendered in connection with the geotechnical site assessment for Butler/Antoine Kyanite Project, Antoine Township.
OUR G.S.T. #R103642344

1. ENGINEERING:

a. Senior Engineer - involved in site visit and testpit excavation, meetings, and preparation of report. 8.0 hr at \$ 110.00/hr	\$ 880.00	
b. Mileage - senior engineer's travel to and from site. 160.0 km at \$ 0.30/km	<u>48.00</u>	\$ 928.00

2. LABORATORY TESTING PROGRAM:

a. Grain Size Analysis 4 at \$ 55.00 each	220.00	
b. Natural Moisture Contents 4 at \$ 4.50 each	<u>18.00</u>	<u>238.00</u>
		\$ 1,166.00
	G.S.T.	<u>81.62</u>

TOTAL AMOUNT OF INVOICE \$ 1,247.62

Terms: Invoices are due when rendered.
Interest is charged at 2% per month after 30 days.

PINEWOOD PARK DRIVE
P.O. BOX 237

NORTH BAY, ONTARIO
P1B 8H2

Office: 705-474-4110
Home: 705-474-4793

July 21, 1992

Kyanite Mining Corporation
P.O. Box 486
Dillwyn, Virginia, U.S.A.
23936

RE: INVOICE JULY 1992
BUTLER - ANTOINE KYANITE PROJECT
ASSESSMENT WORK - Province of Ontario

CONSULTING-FIELD SUPERVISION

R.M. Blais, P.Eng.
June 10/92 - June 30/92

10 days @ \$350.00 \$3,500.00

Supply driller-operator
- Dave Lott

11 days @ 150.00 = 1,650.00

\$5,150.00

GST 7% 360.50

\$5,510.50

\$5,510.50

EXPENSES -

R.M. Blais & Assoc. Ltd.

Truck 4x4 Chev-10 days @ \$50.00 \$ 500.00

Chainsaw - 11 days @ \$20.00 220.00

Drill bits & drill steel 300.00

\$1,020.00

GST 7% 71.40

\$1,091.40

\$1,091.40

Bay Blasting Ltd.		
Powder and caps		
Rental lead wires, blasting		
Machine & Meter	\$1,119.19	\$1,119.19

North Bay Rent-All		
185 CFM Compressor		
150 feet hose, oiler		
2 Jack Hammer	419.75	<u>419.75</u>

\$8,140.84

Belatech

INDUSTRIES LTD.
EXPLORATION & MINES DIVISION

1354 Franklin Street
North Bay, Ontario
P1B 2M3
Phone: Bus: 474-8077 or Res: 472-2790

INVOICE

Date: July 28, 1992

To: R.M. Blais & Associates Ltd.
Box 237, North Bay, Ontario
P1B 8H2

RE: STRIPPING, DRILLING & BLASTING OPERATIONS
KYANITE PROPERTY

June 11/92	MOB TO SITE		
	Roads to Pit #1 - stripping		
	Backhoe 10 hrs @ \$30.00	\$300.00	
	Operator 10 hrs @ \$17.00	170.00	
	Service Truck	50.00	
		<hr/>	
		\$520.00	\$520.00
June 15/92	Move Compressor to site		
	Stripping/Drilling		
	Backhoe 10 hrs @ \$30.00	\$300.00	
	Operator 10 hrs @ \$17.00	170.00	
	Service Truck	50.00	
		<hr/>	
		520.00	520.00
June 16/92	Stripping/Drilling		
	Backhoe 11 hrs @ \$30.00	330.00	
	Operator 11 hrs @ \$17.00	187.00	
	Service Truck	50.00	
		<hr/>	
		567.00	567.00
June 17/92	Drilling		
	Backhoe 11 hrs @ \$30.00	330.00	
	Operator 11 hrs @ \$17.00	187.00	
	Service Truck	50.00	
		<hr/>	
		567.00	567.00
June 18/92	Drilling		
	Backhoe 10 hrs @ \$30.00	\$300.00	
	Operator 10 hrs @ \$17.00	170.00	
	Service Truck	50.00	
		<hr/>	
		520.00	520.00

June 19/92	Test Pits tailings Area		
	Backhoe 10 hrs @ \$30.00	\$300.00	
	Operator 10 hrs @ \$17.00	170.00	
	Service Truck	50.00	
		<hr/>	
		520.00	520.00
June 20/92	Test Pits - tailings area		
	Backhoe 8 hrs @ \$30.00	\$240.00	
	Operator 8 hrs @ \$17.00	136.00	
	Service Truck	50.00	
		<hr/>	
		426.00	426.00
June 22/92	Drilling - Start blasting		
	Backhoe 11 hrs @ \$30.00	330.00	
	Operator 11 hrs @ \$17.00	187.00	
	Service Truck	50.00	
		<hr/>	
		567.00	567.00
June 23/92	Loading/Blasting		
	Backhoe 5 hrs @ \$30.00	150.00	
	Blaster 10 hrs @ \$17.00	170.00	
	Service Truck	50.00	
		<hr/>	
		370.00	370.00
June 24/92	Loading - Blasting		
	Backhoe 4 hrs @ \$30.00	120.00	
	Blaster 8 hrs @ \$17.00	136.00	
	Service Truck	50.00	
		<hr/>	
		306.00	306.00
June 25/92	Finish Blasting		
	Load 45 gallon drums		
	Haul to Yard		
	Backhoe 6 hrs @ \$30.00	\$180.00	
	Blaster 8 hrs @ \$17.00	136.00	
	Service Truck	50.00	
		<hr/>	
		366.00	366.00
			<hr/>
	Sub-Total of Time & Equipment		\$5,249.00

EXPENSES

Fuel - Backhoe & Service Truck	\$361.55
Meal - 11 days @ \$10.00	110.00
Float Charges - 45 gallon drums	150.00
Float Charges - Backhoe / Mobilize	192.60
Float Charges - Backhoe / Demobilize	192.60
	<hr/>
Sub - total of Expenses	\$1,006.75

INVOICE SUMMARY

FEEES FOR LABOUR & EQUIPMENT	\$5,249.00	
7% G.S.T. applicable	<u>367.43</u>	
Total Fees	\$5,616.43	\$5,616.43
EXPENSES AS LISTED ABOVE	\$1,006.75	
7% G.S.T. applicable	<u>70.47</u>	
Total Expenses	\$1,077.22	\$1,077.22
TOTAL INVOICE DUE		<u>\$6,693.65</u>

Respectfully submitted:
RELATECH INDUSTRIES LTD.


Brian Belanger
President

BB/lf

GEORGE'S
EQUIPMENT RENTAL & EXCAVATING
 R.R. #1
 CALLANDER, ONTARIO POB 1HO
 (705) 474-1959

CUSTOMER ORDER NO. _____ PHONE _____ DATE: **JAN 28 93**

NAME: _____
 ADDRESS: **Kymita Prop**
Matheson Hwy 533

QTY.	DESCRIPTION	PRICE	AMOUNT
	Operator Hours		
	Equipment Hours		
JAN 22	Excavator		
	Flote		300.00
JAN 25	Excavating		
	@ 4 hrs		765.00
JAN 26	Excavating		
	@ 4 hrs		765.00
JAN 27	Clean up		
	@ 4 hrs		765.00
	EXPENSES		173.15
SPECIAL INSTRUCTIONS: <i>Paul by [unclear]</i>			
RECEIVED BY: _____			2259.15

1745

(over)

Thank You

TEST HOLES
 STRIPPING

BRNMAN
CONSTRUCTION
& LIFTING LTD.

P.O. BOX 1153
NORTH BAY, ONTARIO P1B 8K4
TELEPHONE (705) 478-2513
FACSIMILE (705) 478-2286

INVOICE

No. **06563**

2% per month interest on Overdue Accounts - Accounts due when rendered

Belatech Petroleum Products
1354 Franklin Street
North Bay, Ontario
P1B 2M3

INVOICE DATE January 22, 1993	
OUR ORDER NO.	
YOUR ORDER NO.	
TERMS On Receipt	F.O.B.
SALESMAN G. Chadbourn	

PAID TO: PPD. OR COL.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	To invoice for equipment rental without operator per attached bill 09519:		
Client <i>Ky</i>	D4 DOZER	16 hours	30.00
Project	Float Moves	4 hours	65.00
			\$480.00
			260.00
			\$740.00
		G.S.T.	51.80
			<u>\$791.80</u>
	TOTAL DUE THIS INVOICE		

Butt
Ontario
Amount 791.80
Code No. 518
Cheque No. 61
Date Paid 12/15/93

G.S.T. #R100 672 880

CLEARING STRIP

BRUMAN LEASING LTD.

• COMMERCIAL & RESIDENTIAL
 • COMPLETE CONSTRUCTION SERVICE
 • SOD • BRICKS

P.O. BOX 1153
 NORTH BAY, ONTARIO P1B 8K4
 PHONE: (705) 476-2513

DATE Jan 18 19 93

NAME Belatech Petroleum Products

ADDRESS 1354 Franklin St. P1B 2M3

NOT RESPONSIBLE FOR TELEPHONE, HYDRO AND GAS LINES

P.O. No.	DESCRIPTION	AMOUNT
JOB SITE		
LOADER	<u>D-4 Dozers</u>	
BACKHOE	<u>Anti: 926/1 hrs</u>	
TRUCK	<u>END 936.9</u>	
GRADER	<u>16 HRS</u>	
RAMMER	<u>0.30⁰⁰</u>	<u>480⁰⁰</u>
LABOUR		
	<u>Plant move</u>	
	<u>(2 hrs + 2 hrs)</u>	
	<u>4 HRS @ 65⁰⁰</u>	<u>260⁰⁰</u>
RECEIVED BY:		<u>740⁰⁰</u>
OPERATOR		<u>51⁸⁰</u>
	TOTAL	<u>791⁸⁰</u>

NOTE: Must Be Paid Within 30
 Days 5% Per Month Interest
 Charged Thereafter

No. 09519

G. MILLER

Client <u>invo</u>			
TAX REGISTRATION NO. <u>10209</u>			
DATE <u>Nov 7 1992</u>			
NAME <u>P. M. Blair + K. J. ...</u>			
ADDRESS <u>W. Bay ...</u>			
SOLD BY	C.O.D.	CHARGE	UNRESOLVED ACCT. FWD.

1		
2	<u>REPAIRS ON SUPER</u>	
3	<u>20% tax</u>	<u>422.50</u>
4		
5	<u>Hand Service</u>	<u>300.00</u>
6		
7	<u>Daily Exp @ 15.00</u>	<u>420.00</u>
8		
9		<u>3172.50</u>
10	<u>GST</u>	<u>220.07</u>
11		
12		<u>4 3392.57</u>
01	SIGNATURE	

G 30L2

REPAIRS

BELATECH

PETROLEUM PRODUCTS

1354 FRANKLIN STREET

NORTH BAY, ONTARIO. P1B 2M3

BUS: (705) 494-9880 • FAX: (705) 494-9852



TEXACO

Quality
Lubricants

INVOICE

1164

SOLD TO:

R.M. Blais & Associates
PINEWOOD PARK DR.
NORTH BAY ONT.

SHIPPED

Client	<u>Ky</u>
Project	<u>Butte/Butane</u>
Amount	<u>535.00</u>
Code No.	<u>518</u>
Cheque No.	<u>62</u>
Date Paid	<u>FEB 15/93</u>

DATE <u>FEB 15/93</u>	SHIPPED VIA	PROV. SALES TAX LIC. NO.	YOUR ORDER NO.	TERMS
--------------------------	-------------	--------------------------	----------------	-------

QUANTITY	DESCRIPTION	AMOUNT
	RE - KYANITE PROTECT. 2.5 DAYS LABOUR FOR DOZEN FUEL & SERVICE TRUCK INCLUDING <i>Total</i> <i>PAID in full Feb 15/93</i> <i>Kyanite Mineral Corp.</i>	<i>500.00</i>

G.S.T. # 123449100

TERMS: NET 30 DAYS UNLESS OTHERWISE STATED.
CARRYING CHARGES AT 2% PER MONTH WILL BE CHARGED
ON ALL OVERDUE ACCOUNTS.
MINIMUM INTEREST CHARGE OF \$5.00 PER MONTH.

(A DIV. OF BELATECH INDUSTRIES LTD.)

SUB TOTAL	500.00
G.S.T.	35.00
P.S.T.	
TOTAL	535.00



Report of Work Conducted After Recording Claim

Transaction Number
W9370.00084

Ontario

Mining Act

63.6357

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 dupli
 - Refer to the Mining Act and Regulation: Recorder.
 - A separate copy of this form must be c
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.



31L10SW0002 63.6357 ANTOINE

900

Recorded Holder(s) KYANITE MINING CORPORATION	Client No. 215741
Address BOX 237 P1B 8H2 160 PINEWOOD PARK DR., NORTH BAY, ONTARIO	Telephone No. 804-983-2085 705-474-4110
Mining Division SUDBURY	Township/Area ANTOINE
Dates Work Performed From: JUNE 1, 1992	To: JUNE 30, 1993

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECEIVED

RECORDED

OCT 14 1993

SECTION 18 ONLY

Receipt **MIT**

Total Assessment Work Claimed on the Attached Statement of Costs \$ **24,060**
~~23,528.00~~

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

Name	Address
RM BLAIS & ASSOCIATES LTD	BOX 237 160 PINEWOOD PARK DR. NORTH BAY, ONT. P1B 8H2 705-474-4110
BELATECH INDUSTRIES LTD	1354 FRANKLIN ST. NORTH BAY, ONT. P1B 2M3 705-497-9182
GEORGE'S EQUIPMENTAL RENTAL & EXCAVATING	R2 #1 CALLANOR, ONT. R0N 1H0 705-474-1959
BRUMAN CONSTRUCTION & LEASING LTD.	P.O. BOX 1153 NORTH BAY, ONT. P1B 8K4 705-476-2513

(attach a schedule 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 OCT. 14/93	Recorded Holder or Agent (Signature) RMBlais
--	---------------------------	--

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 R.M. BLAIS P.O. BOX 237 160 PINEWOOD PARK DR., NORTH BAY, ONT. P1B 8H2		
Telephone No. 705-474-4110	Date OCTOBER 14, 1993	Certified By (Signature) R.M. Blais

For Office Use Only

Total Value Cr. Recorded \$ 20,800	Date Recorded October 14/93	Mining Recorder <i>[Signature]</i>	Received Stamp SUDBURY MINING DIV RECEIVED 4 1993
	Deemed Approval Date Jan. 13/94	Date Approved Jan. 11/94	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	S. 340765	1
	S. 340766	1
	S. 323928	1
	T. 56639	1
	S. 340761	1
	S. 340762	1
	T. 57544	1
	S. 1084586	1
	S. 1084587	1
	S. 323927	1
	T. 56638	1
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
1834	
1834	
1834	
5699 5167	
1834	
1834	
1834	
1273	
546	1600
182	1600
1	
1500	
5690	
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
1834	
1834	
1834	
3667	2052 1500
1834	
1834	
1834	
1273	
-	
-	
272	1228
5690	
Total Assigned From	
Total Reserve	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature <i>RM Blas</i>	Date OCT. 14/93
---	-----------------------------	--------------------

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1084580	1
	1084581	1
	1084582	1
	1084583	1
	1084584	1
	1084585	1
	1084588	1
	1084589	1
	1084568	1
	1084569	1
	1117778	1
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
	1600.00
AMB Total Value Work Done	20,800.00
	24,060
	23,528.00

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	3,260
	2,728.00
	20,072.00

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature <i>JMBlan</i>	Date Oct. 14/93
---	----------------------------	--------------------



Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Transaction No./N° de transaction

W9370.00084

Mining Act/Loi sur les mines

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	4,706	
	Field Supervision Supervision sur le terrain	4,854	9,560
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type POWDER, CAPS ETC ETC	1,624	
			1,624
Equipment Rental Location de matériel	Type		
	1 1/4 C.V. BACKHOE	5540.72	
	30 540 BACKHOE	4242.76	
	175 CFM COMPRESSOR	1511.15	
	24 DOZER	791.80	
	LAB. SCREENING	754.66	12,341
Total Direct Costs Total des coûts directs			23,525

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		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			535
Sub Total of Indirect Costs Total partiel des coûts indirects			535
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			4706
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			24,060
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			

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 Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. 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 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. 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	Évaluation 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 AGENT. 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 <i>JM Blais</i>	Date JAN. 11/94.
------------------------------	---------------------

EBBY TWP.



- Boundary
- Location
- Stream, To which
- Island
- Communication
- Lot, Contour
- Point Boundary
- Bridge
- Map, Railroad
- Building
- Chimney
- Cliff, Pit, Pile
- Contours
- Intersected
- Contour
- Falls
- Spots too near
- Fence, Hedge, Wall
- Feature Outline
- Flooded Land
- Loch
- Marsh or Swamp
- Moat
- Mine Head Frame
- Outcrop

- Railroad
- Double Track
- Abandoned
- Road
- Highway, County
- Traverse
- Truss, Arch Bridge
- Truss, Arch Bridge
- Rapids
- Double line river
- Double line river
- Reservoir
- River, Stream, Canal
- Approach
- Approach
- Track
- Spot Elevation
- Fence, Hedge, Wall
- Transmission Line
- Power
- Tunnel
- Utility Pole
- Wharf, Dock, Pier
- Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

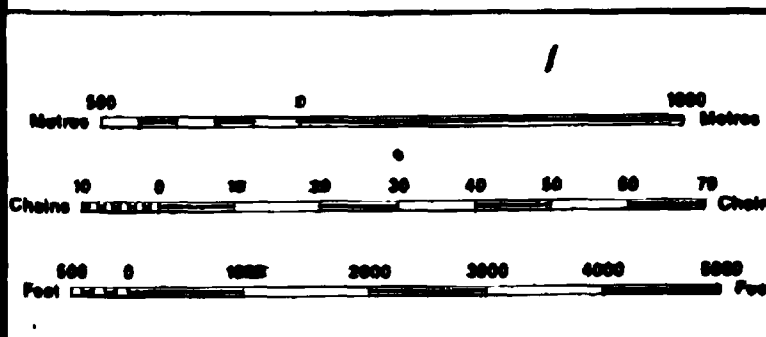
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SAND AND GRAVEL				
GRAVEL				18368
M.T.C. GRAVEL, PIT 4C-12				
M.T.C. GRAVEL, PIT 4C-10				

- TOWNSHIP, RANGE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	□
ORDER-IN-COUNCIL	OC
RESERVATION	OC
CANCELLED	○
SAND & GRAVEL	○
LAND USE PERMIT	○

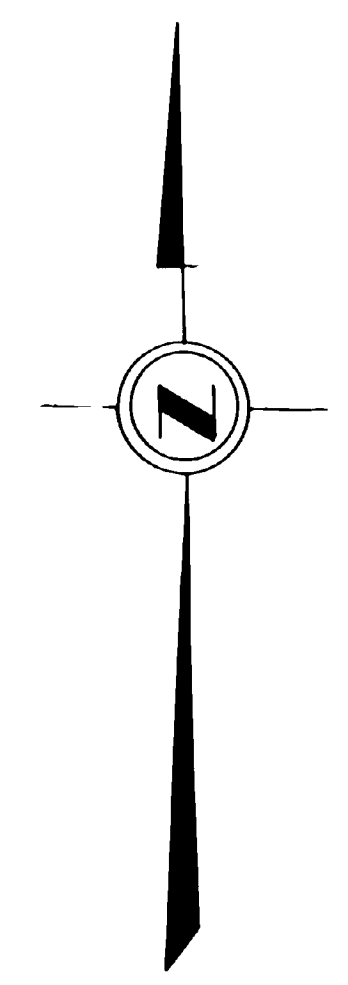
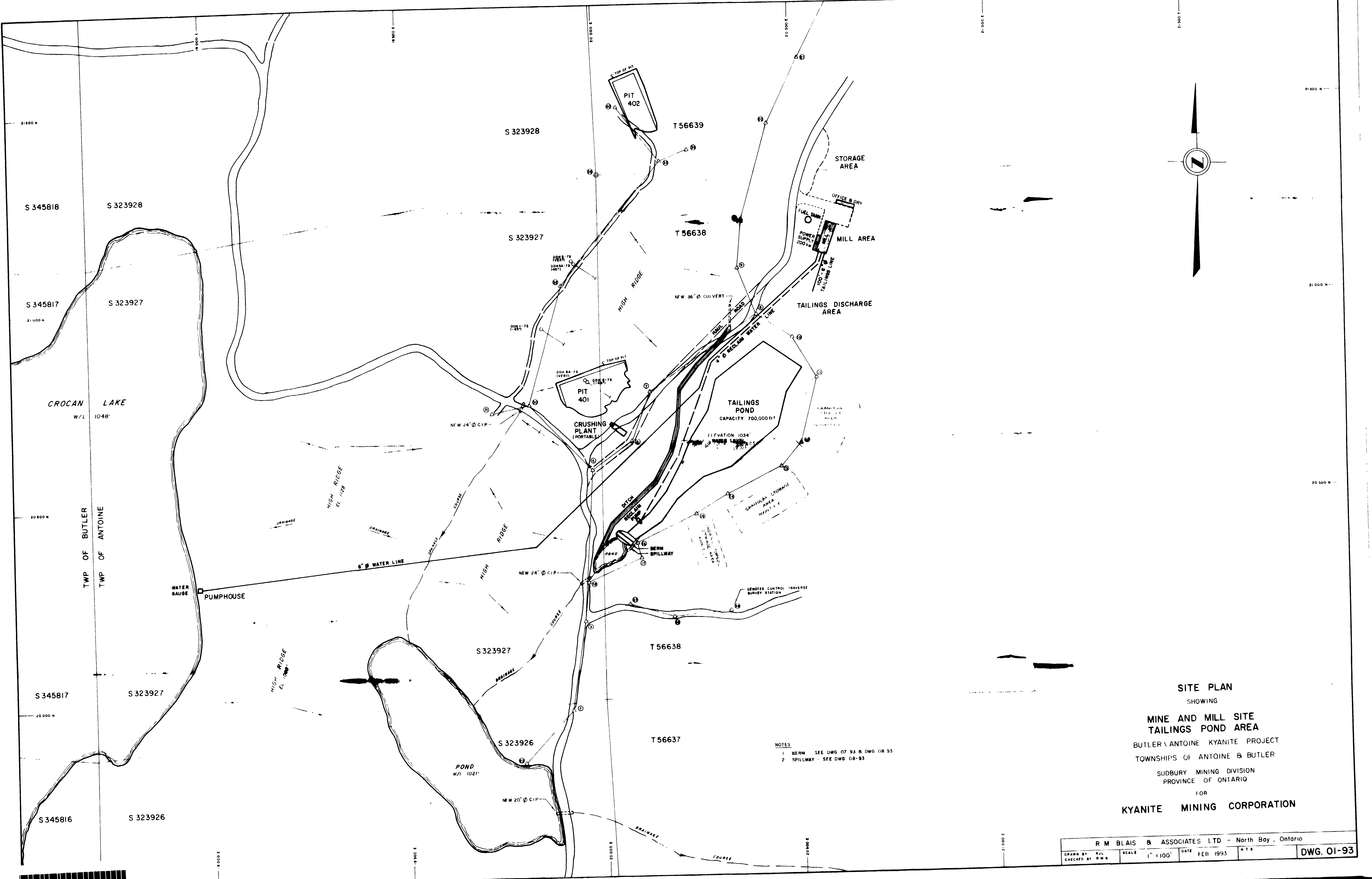


SCALE 1:20 000

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOWNSHIP **63.6357**
ANTOINE
 M.N.R. ADMINISTRATIVE DISTRICT
NORTH BAY
 MINING DIVISION
SUDBURY
 LAND TITLES / REGISTRY DIVISION
NIPISSING

Ministry of Natural Resources
 Ontario
 Land Management Branch
 Date: NOVEMBER, 1994
G-458

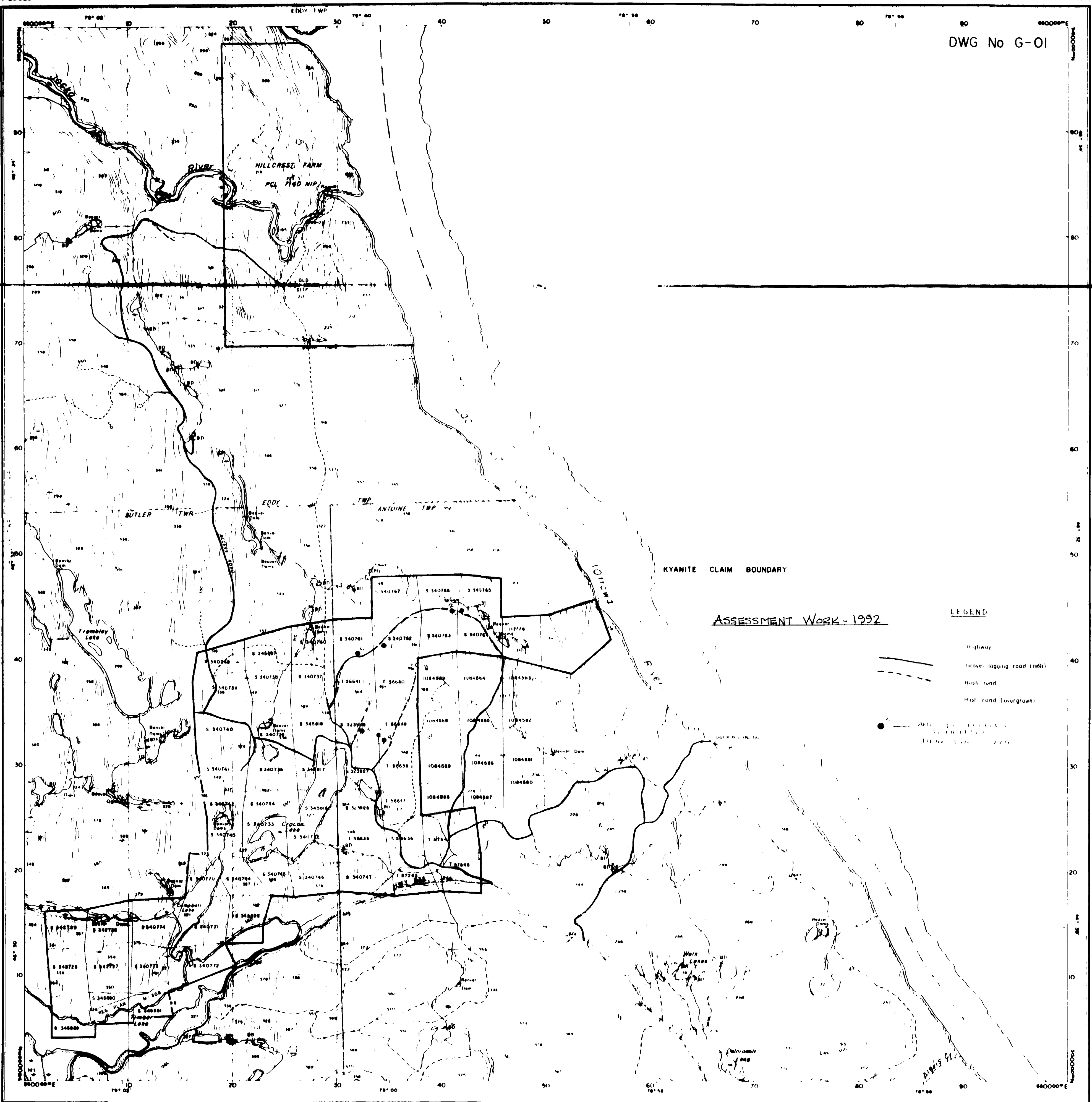


SITE PLAN
 SHOWING
MINE AND MILL SITE
TAILINGS POND AREA
 BUTLER \ ANTOINE KYANITE PROJECT
 TOWNSHIPS OF ANTOINE & BUTLER
 SUDBURY MINING DIVISION
 PROVINCE OF ONTARIO
 FOR
KYANITE MINING CORPORATION

NOTES
 1 BERM SEE DWG 07 93 & DWG 08 93
 2 SPILLWAY - SEE DWG 08-93

R M BLAIS & ASSOCIATES LTD - North Bay, Ontario						
DRAWN BY	R.M.B.	SCALE	1" = 100'	DATE	FEB 1993	DWG. 01-93





ASSESSMENT WORK - 1992

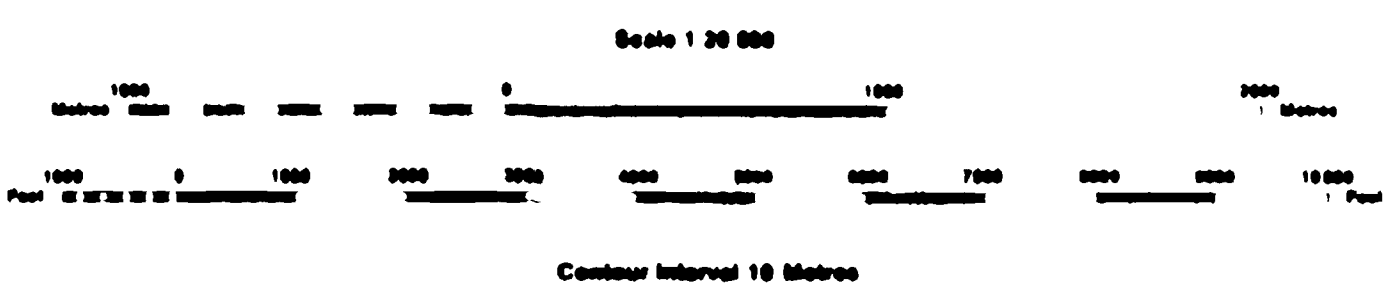
LEGEND

- Highway
- gravel logging road (1991)
- bush road
- first road (overgrown)



Ministry of Natural Resources
 Sheet 20 17 6500 51500
 Map base by Surveys and Mapping Branch
 Air photography 1979 Published 1982
 Contour interval

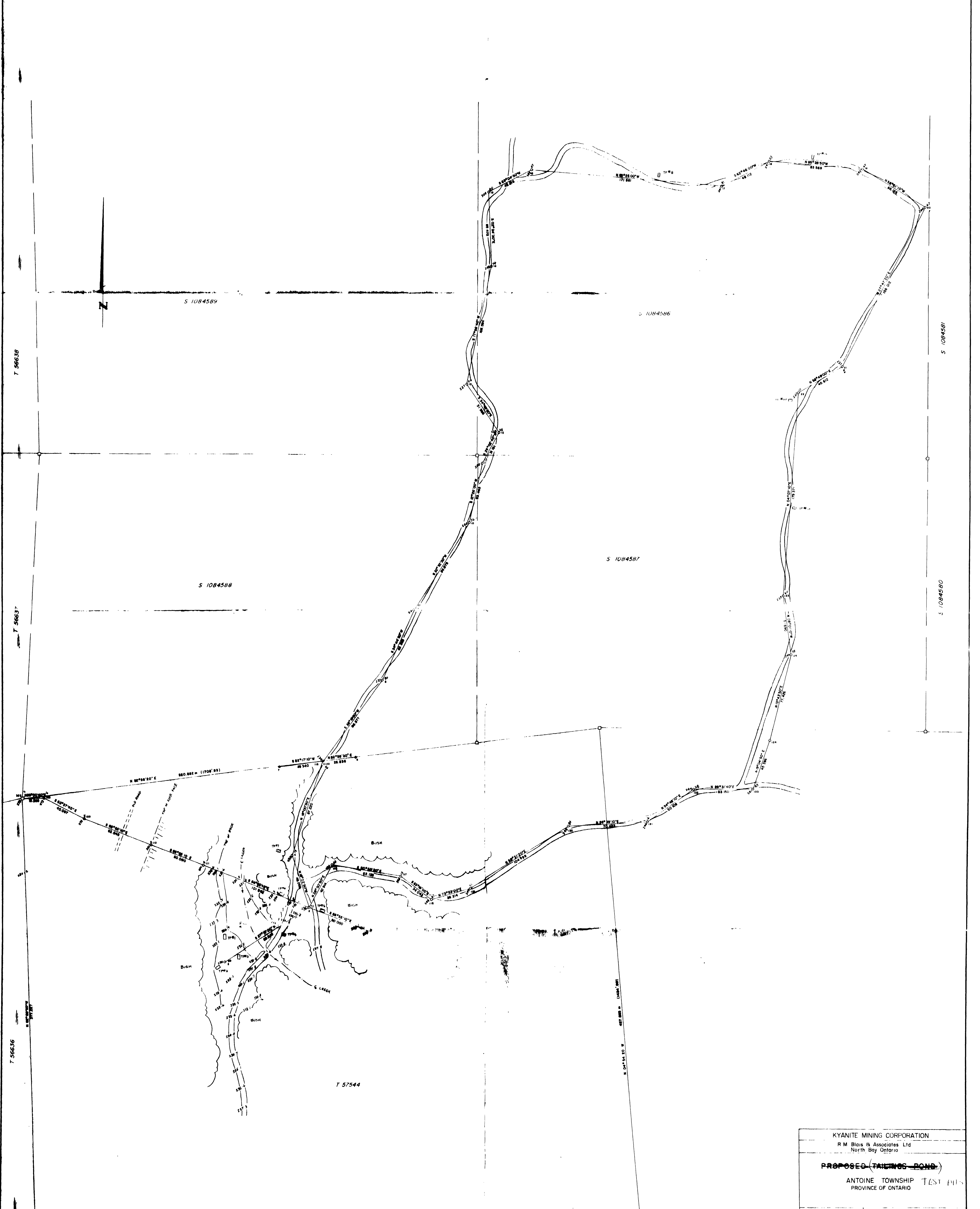
220



NOTES
 North American Datum 1927
 Universal Transverse Mercator (8°) projection
 Zone 17 Central Meridian 81° W
 Grid interval 1000 metres
 Legend and explanatory notes obtainable from
 Public Service Centre Ministry of Natural Resources Queen's Park Toronto

ADJOINING SHEETS

20 17 6500 51500	20 17 6500 51500
20 17 6500 51500	20 17 6500 51500
20 17 6500 51500	20 17 6500 51500



KYANITE MINING CORPORATION	
R M Blais & Associates Ltd North Bay Ontario	
PROPOSED TAILING POND	
ANTOINE TOWNSHIP TEST POND PROVINCE OF ONTARIO	
DRAWN BY: R.J.L.	APPROVED BY: R.M.B.
SCALE: 1:1000	FILE NO:
DATE: 02/03/12	DRAWING NO:

