



41P10SW0006 W9680.00459 TYRRELL

010

REPORT OF WORK
STRIPPING PROGRAM
JUBY PROJECT (1801)
TYRRELL TOWNSHIP
LARDER LAKE MINING DIVISION

Submitted by:

Mary T. Stalker

M. Stalker
Project Geologist
Royal Oak Mines Inc.

September 19, 1996

INTRODUCTION

A program of mechanical stripping was conducted on the Juby property, held by Royal Oak Mines Inc., on September 18, 1996. Bedrock was exposed and mapped and 107 rock samples were collected. This report give the results of the stripping program.

LOCATION AND ACCESS

The Juby property is located in southeastern Tyrrell township, Larder Lake Mining Division (figure 1). The claims are reached by following highway 560 approximately 13 miles west of the town of Gowganda, and turning south on the Welsh-Mac road. The claim group is approximately 3 miles south of highway 560.

TOPOGRAPHY AND VEGETATION

The terrain covered by the claims consists of low rolling hills and swamp with scattered outcrop and ridges. The most common trees are spruce, birch, and tag alders, but poplar, fir and pine are also present.

EXPLORATION FEATURES

A grid was cut on the property during the 1970's but almost no trace of it now exists. Claim boundaries are also mostly overgrown. The area of the stripping program is located approximately 250' south of a junction in the bush trail and about 400' north of the creek which cuts across the property (figure 2). This area was known previously as the main showing and contains old trenching and blasted outcrop which are indicated on the stripping map (figure 3-map pocket).

MECHANICAL STRIPPING PROGRAM

Golden Quest Exploration was the contractor chosen to complete the mechanical stripping program. The equipment used was an unitized (tracked) backhoe which, with the operator, costs \$100/hour. The backhoe operator was Armand Aube and his helper was Paul Otis. The rate for the helper was \$25/hour. As well, one pump and hose were utilized at \$75/day, and a chain saw at \$25/day. Royal Oak Mines Inc. used their own staff to sample, manually strip, and map the area at a cost of \$200 per person per day. This crew included Rod Barber, Marc Chartrand, Peter Harvey, Al Lacroix, and Mary Stalker. All physical work was performed on September 18, 1996 from 8:30am to 2:30pm.

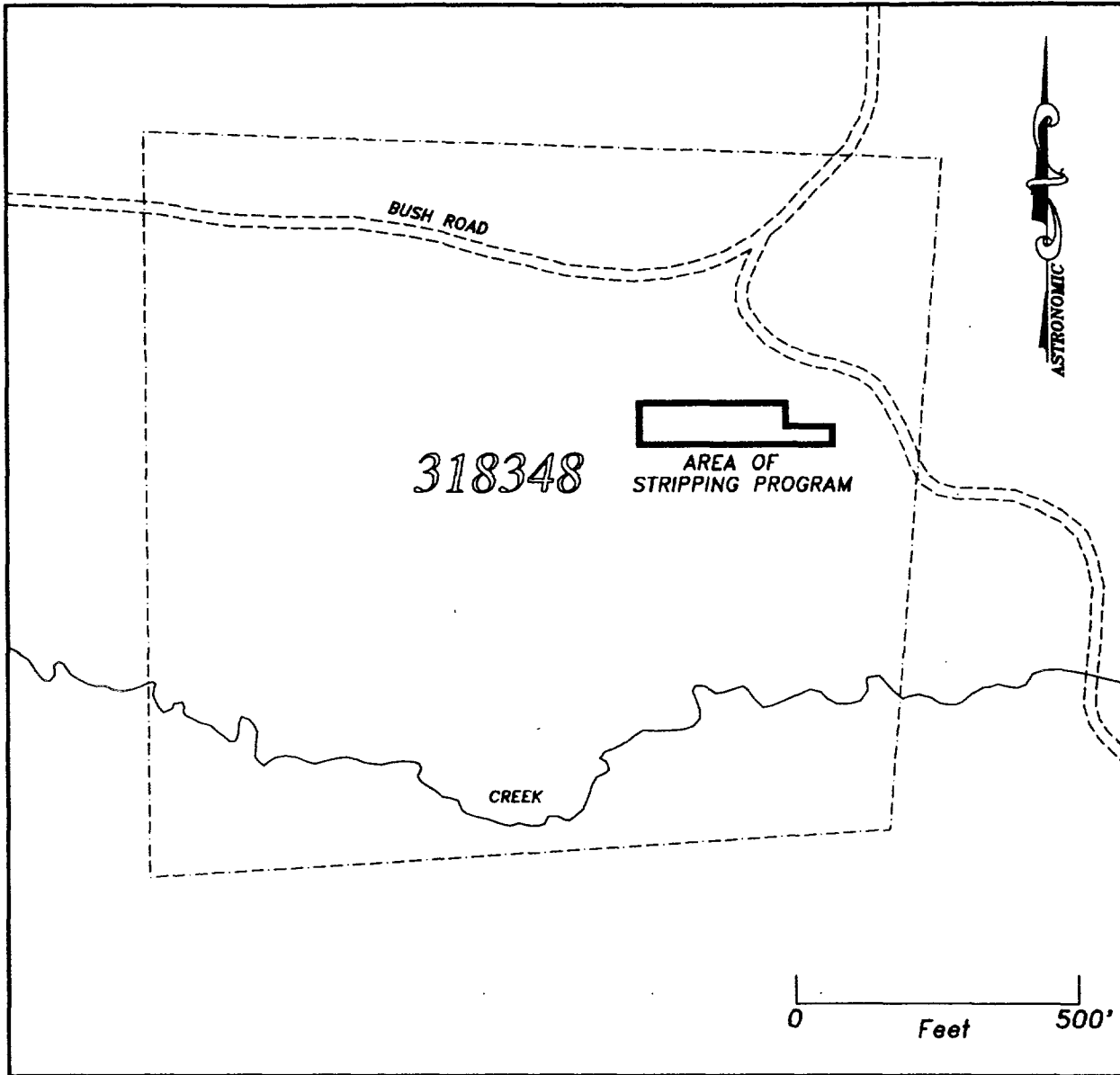


Figure 2: LOCATION OF WORK DONE

<u>Equipment and Personnel</u>	<u>Hours Used</u>	<u>Amount</u>
Backhoe and operator (@ \$100/hr)	6 hours	\$ 600
Pump and hose (@\$75/day)	1 day	\$ 75
One chain saw (@\$25/day)	1 day	\$ 25
One helper (@ \$25/hr)	6 hours	\$ 150
Five Royal Oak staff (@ \$200/day each)	1 day	<u>\$1000</u>
Total		\$1850

The program area is of slightly higher ground than the surrounding region and contains outcrop along with old trenches. The area was mapped and samples were taken from outcrop and especially from areas where rock had been broken through previous blasting. Minor local manual stripping was performed where outcrop could easily be exposed. The mechanical stripping cleared an area approximately 35'x20' and the bedrock was washed clean with a high pressure water pump for mapping and sampling.

Samples were sent to Spectrolab Inc. in Rouyn-Noranda, Quebec for analysis and results were received on the morning of September 19, 1996 and are attached to this report.

GEOLOGY OF THE PROGRAM AREA

Most of the area of the program is underlain by altered felsic metavolcanics with minor interfingered mafic metavolcanics or intrusions and metasediments. A diabase cuts through the east end of the outcrop and there are common quartz veins and stringers.

The felsic metavolcanic is fine grained and grey-beige where it is unaltered. Most of the exposed felsic is strongly altered and appears bleached to a beige colour commonly with a greenish hue. The rock is carbonatized and contains trace to 3% medium grained disseminated pyrite cubes but commonly contains a consistent 1.5% pyrite throughout the altered felsic metavolcanic.

Quartz veins and stringers commonly cut through the felsic metavolcanics and are mainly orientated east-west but broad folding changes the direction locally. The quartz is milky white and locally contains 1-2% pyrite.

Thin units (<5') of fine to medium grained chloritic mafic metavolcanics or intrusions occur and interfinger with the felsic metavolcanics. They are commonly medium green coloured and sheared and appear to pinch and swell with irregular contacts. These mafics contain approximately 1% of pyrite but locally may contain 10%.

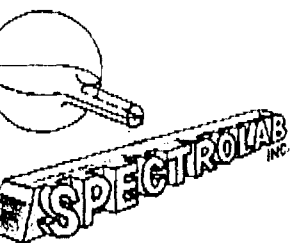
Minor amounts of metasediments were found during the mapping. An area of argillite appears in an old trench to the south west of the program area where very little outcrop was exposed. Thin beds of possible metasediments also appear to the northwest of the program area and appear to interfinger with the felsic metavolcanics. These sediments appear unaltered and contain trace amounts of pyrite.

A diabase dike occurs near the east end of the outcrop. It is a fine grained diabase with minor medium grained pyrite and strikes at approximately 340°.

RECOMMENDATIONS

The amount of alteration and sulphide mineralization present in the program area along with the favourable assays returned indicate that more work is needed. The geology appears quite complex and further stripping might clarify the geology along with uncovering more mineralized zones. The outcrop exposed is very smooth and channel samples cut with a rock saw might increase the amount of rock sampled while providing a more regular and unbiased sampling method.

ASSAY CERTIFICATES



SPECTROLAB INC.

780, boul. de l'Université
Rouyn-Noranda (Québec) J9X 7A5
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IF-2233-A DATE: 19/09/96

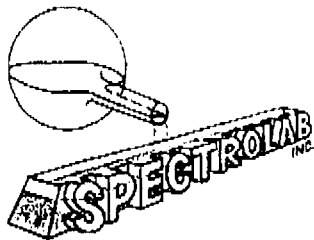
Client: ROYAL OAK MINES LTD Echantillons: Rocks Projet: 1801

Reçu de: MARY F. STALKER Nombre d'analyses: 20 Date reçu: 18/09/96
4:15 PM

Éléments: Au Limite de détection: 0.001 Méthode: F.A. BALANCE

Sample	Au oz/t	Au Cks oz/t
126201	0.023	
126202	0.115	
126203	0.221	
126204	0.070	
126205	0.018	
126206	0.020	
126207	0.019	
126208	0.028	
126209	0.005	
126210	0.001	0.001
126211	0.062	
126212	0.023	
126213	0.001	
126214	0.001	
126215	0.002	
126216	0.001	
126217	0.001	
126218	0.002	
126219	0.023	
126220	0.018	0.017

ANALYSTE: *Larry Bennett* CET



SPECTROLAB INC.

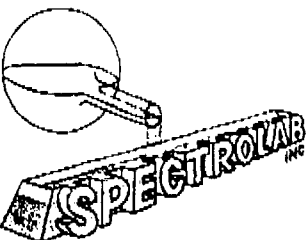
780, boul. de l'Université
Rouyn-Noranda (Québec) J9X 7A5
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IF-2233-E DATE: 19/09/96

Client: ROYAL OAK MINES LTD Echantillons: Rocks Projet: 1801
Reçu de: MARY F. STALKER Nombre d'analyses: 20 Date reçu: 18/09/96
Éléments: Au Limite de détection: 0.001 Méthode: F.A. BALANCE
4:15 PM

Sample	Au oz/t	Au Cks oz/t
126221	0.024	
126222	0.046	
126223	0.019	
126224	0.001	
126225	0.003	
126226	0.081	
126227	0.077	
126228	0.018	
126229	0.052	
126230	0.040	0.039
126231	0.027	
126232	0.031	
126233	0.026	
126234	0.050	
126235	0.042	
126236	0.060	
126237	0.061	
126238	0.056	
126239	0.028	
126240	0.023	0.027

ANALYSTE: Larry Cousinier CET



SPECTROLAB INC.

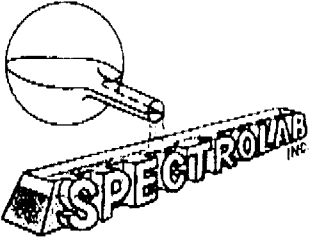
780, boul. de l'Université
Rouyn-Noranda (Québec) J9X 7A5
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IF-2233-C DATE: 19/09/96

Client: ROYAL OAK MINES LTD Echantillons: Rocks Projet: 1801
Reçu de: MARY F. STALKER Nombre d'analyses: 20 Date reçu: 18/09/96
Éléments: Au Limite de détection: 0.001 Méthode: F.A. BALANCE
4:15 PM

Sample	Au oz/t	Au Cks oz/t
126241	0.002	
126242	0.044	
126243	0.013	
126244	0.014	
126245	0.110	
126246	0.005	
126247	0.002	
126248	0.005	
126249	0.009	
126250	0.012	0.015
126251	0.005	
126252	0.014	
126253	0.020	
126254	0.001	
126255	0.026	
126256	0.015	
126257	0.010	
126258	0.031	
126259	0.039	
126260	0.005	0.004

ANALYSTE: *Jany Servet*



SPECTROLAB INC.

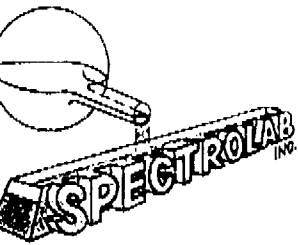
780, boul. de l'Université
 Rouyn-Noranda (Québec) J9X 7A5
 Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IF-2233-D DATE: 19/09/96

Client: ROYAL OAK MINES LTD Echantillons: Rocks Projet: 1801
 Reçu de: MARY F. STALKER Nombre d'analyses: 20 Date reçu: 18/09/96
 Éléments: Au Limite de détection: 0.001 Méthode: 4:15 PM F.A. BALANCE

Sample	Au oz/t	Au Cks oz/t
126281	0.004	
126262	0.001	
126263	0.001	
126264	0.016	
126265	0.001	
126266	0.001	
126267	0.001	
126268	0.001	
126269	0.002	
126270	0.001	0.001
126271	0.001	
126272	0.203	
126273	0.009	
126274	0.001	
126275	0.006	
126276	0.001	
126277	0.164	
126278	0.131	
126279	0.152	
126280	0.002	0.001

ANALYSTE: *Larry Rivest* *CEO*



SPECTROLAB INC.

780, boul. de l'Université
Rouyn-Noranda (Québec) J9X 7A5
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IF-2233-F DATE: 19/09/96

Client: <u>ROYAL OAK MINES LTD</u>	Echantillons: <u>Rocks</u>	Projet: <u>1801</u>
Reçu de: <u>MARY F. STALKER</u>	Nombre d'analyses: <u>7</u>	Date reçu: <u>18/09/96</u> <u>4:15 PM</u>
Éléments: <u>Au</u>	Limite de détection: <u>0.001</u>	Méthode: <u>F.A. BALANCE</u>

Sample	Au oz/t
AX42251	0.008
AX42252	0.001
AX42253	0.001
AX42254	0.001
AX42255	0.001
AX42256	0.001
AX42257	0.001

ANALYSTE: *Larry Bissonet* CS

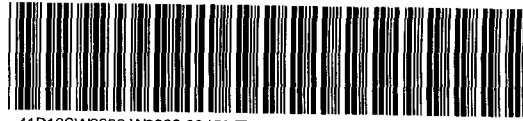
Report of Work Conducted After Recording Claim

Mining Act

Transaction/AMENDMENT No.
W 9680 • 00459

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

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



900

Recorded Holder(s) <i>Royal Oak Mines Inc.</i>	Client No. <i>136226</i>
Address <i>P.O. Bag 2010; Timmins, Ont.; P4N 7X7</i>	Telephone No. <i>(705) 360-1141</i>
Mining Division <i>Larder Lake</i>	Township/Area <i>Tyrrell</i>
M or G Plan No.	
Dates Work Performed From: <i>September 18, 1996</i>	To: <i>September 19, 1996</i>

Work Performed (Check One Work Group Only)

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

Total Assessment Work Claimed on the Attached Statement of Costs \$ *3297*

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
<i>Mary Stalker/Royal Oak Mines Inc.</i>	<i>P.O. Bag 2010; Timmins, Ont.; P4N 7X7</i>

(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 <i>September 19, 1996</i>	Recorded Holder or Agent (Signature) <i>Mary Stalker</i>
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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 <i>Mary Stalker P.O. Bag 2010; Timmins, Ont.; P4N 7X7</i>		
Telephone No. <i>(705) 360-1141</i>	Date <i>September 19, 1996</i>	Certified By (Signature) <i>Mary Stalker</i>

For Office Use Only

Total Value Cr. Recorded <i>Perf App 3200 Rese 3297</i>	Date Recorded <i>96 Sep 19</i>	Mining Recorder <i>[Signature]</i>	Received Stamp <i>TO TT 1111 ST 1996</i>
	Deemed Approval Date <i>96 Dec 12</i>	Date Approved <i>96 Dec 5</i>	
	Date Notice for Amendments Sent		

W 00459
 pstr p

INDEX TO LAND DISPOSITION

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

PLAN
#253
 G-3725
 TOWNSHIP
TYRRELL

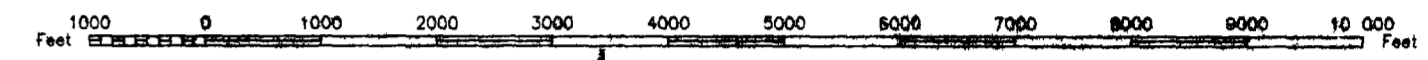
MINING DIVISION

LARDER LAKE

LAND TITLES/REGISTRY DIVISION

TIMISKAMING

Scale 1:20 000



Contour Interval 10 Metres



200

AREAS WITHDRAWN FROM DISPOSITION

- MRO - Mining Rights Only
- SRO - Surface Rights Only
- M+S - Mining and Surface Rights

Order No. W-L-58/96
 Date: SEPT 17/96
 Disposition: SRO
 File: ARCHAEOLOGICAL

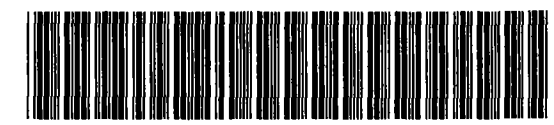
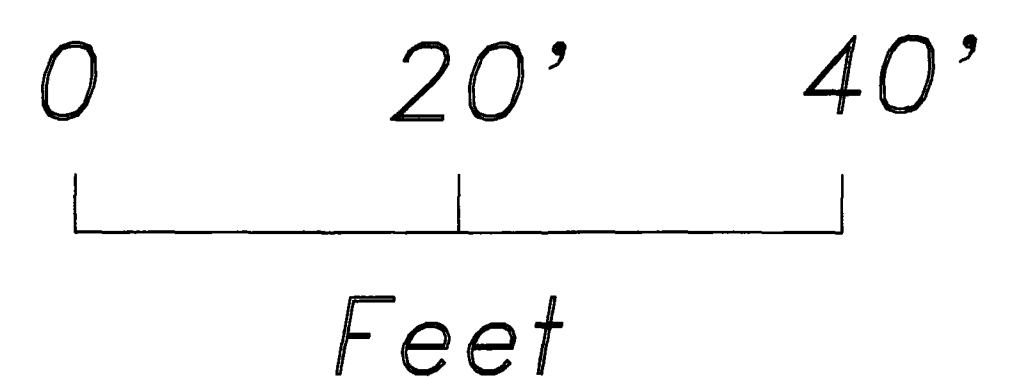
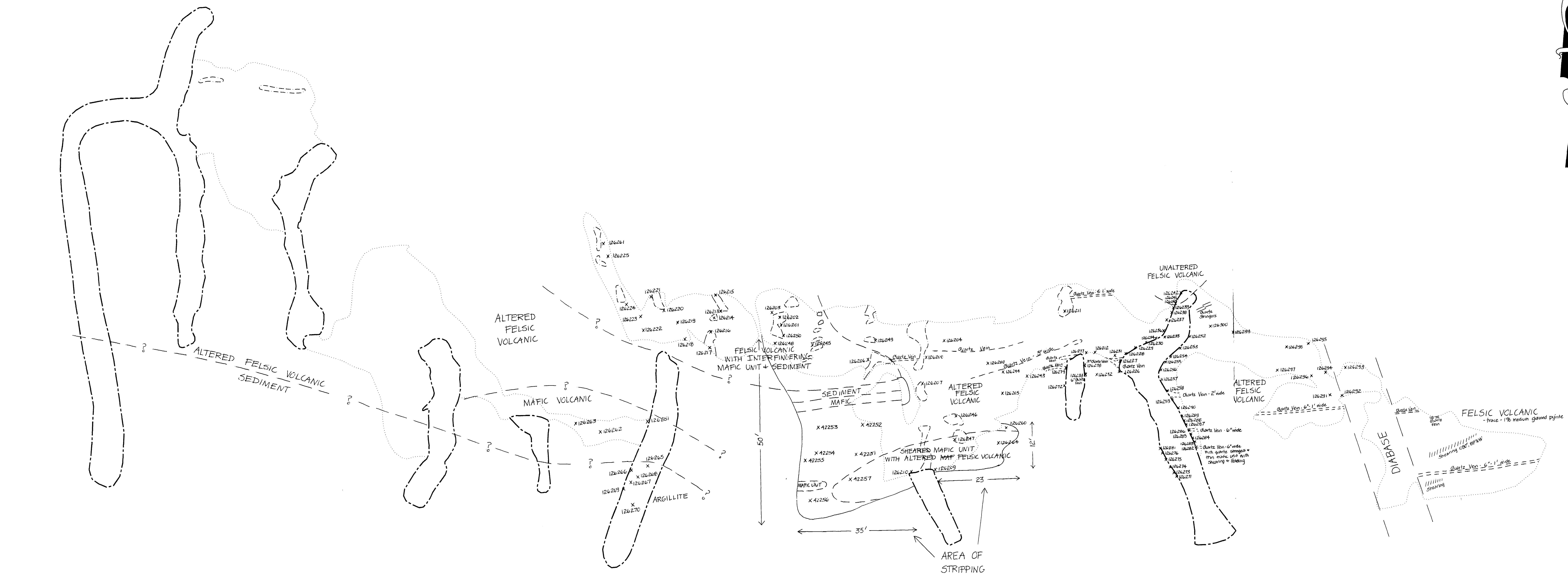
SYMBOLS

- Boundary
 - Administrative District
 - Township, Meridian, Baseline
 - Road allowance, surveyed
 - shoreline
 - Lot/Concession, surveyed
 - unsurveyed
- Parcel, surveyed
- unsurveyed
- Right-of-way, road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine shaft
- Pipeline (above ground)
- Railway, single track
- double track
- abandoned
- River/Stream/Creek
- Intermittent
- Road: highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

- Patent
 - Surface & Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- Lease
 - Surface & Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- License of Occupation
- Order-in-Council
- Cancelled
- Reservation
- Sand & Gravel
- Land Use permit

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO MAKE 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.



210

- Stripped and Washed Outcrop
- - - - - Geological Contact
- Previously Exposed Outcrop
- - - - - Previously Blasted Rock
- - - - - Trench
- X 126204 Sample Location and Number

FIGURE 3: STRIPPING MAP, CLAIM 318348, JUBY PROPERTY, TYRRELL TOWNSHIP