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# Report of Trenching on the Lang-Caswell Prospect Lorrain Township, Ontario

for Cabot Mining Corp.

Nov 5, 2000

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GEOSCIENCE ASSESSMENT OFFICE

#### **SUMMARY**

The Lang-Caswell Property of Cabo Mining Corp. is located within the Cobalt Silver mining camp in northeastern Ontario (Figure 1). The property, located in South Lorrain Township (Figure 2), is part of a large land holding scattered through five Townships in the Cobalt area. The property contains numerous pits, trenches and shallow shafts dating back to the early 1900's. Chalcopyrite, cobalt and silver have been reported by earlier workers. The mineralization appears to be associated with carbonate breccia and calcite +/- quartz veins in a Nipissing diabase sill. They appear to be localized at the intersection of NS-SW and NW-SE trending structures.

Respectfully submitted,

Wawa, Ontario November 5, 2000 Seymour M. Sears, B. A., B. Sc. Geologist

LORRAIN

010C

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#### INTRODUCTION AND LOGISTICS

This work report on a portion of the Lang-Caswell, part of the Pan Lake - Anderson Lake Property (Figures 1, 2), has been prepared on behalf of Cabo Mining Corp. of Vancouver, B. C. The contents of the report is based on supervision, geological mapping and sampling carried out in October and November of 2000 by personnel of Sears, Barry and Associates Ltd. Work was based from the Haileybury Beach Motel in Haileybury, Ontario.

The stripping was carried out between Oct 31 and Nov 4 by Pederson Construction of New Liskeard, Ontario. A John Deere 310C 4X4 tractor with a backhoe was utilized on the following dates: Oct 31 (10 hrs + mob) time, Nov 1 (10 hrs), Nov 2 (10 hrs), Nov 3 (12 hrs), Nov 4 (9 hrs + de-mob). The cost included operator and machine at \$55 per hour.

#### PROPERTY LOCATION AND ACCESS

The work covered only a small portion of a huge land position in the area. It focused between the Main Lang Caswell shaft area (Line 0 at the Baseline of a 2000 cut grid) and an area of extensive old pits and trenches (700E, 150 North). During the trenching program a muckpile estimated to contain over 1000 tonnes of material mined by previous operators, was also sampled. The area is located near the junction of three claims in the southern part of Lorrain Township, Larder Lake Mining Division, Ontario. They are shown on Figure 2, a portion of claim Index Map G 3438.

L1230444 (16 units) L1230445 (16 units) L1230448 (16 units)

The grid is accessed by a 6.5 kilometre long ATV trail along the Ontario Hydro Electric powerline extending from Bower's Farm on Highway 567, 18 kilometres south of North Cobalt.

#### TOPOGRAPHY AND VEGETATION

Maximum relief on the property is approximately 50 metres. Topography is generally rolling with local steep ledges and cliffs. The baseline of the grid is oriented at 040 degrees. Lines are at 50 metre intervals. The eastern end terminates on the southeast shore of Latour Lake. All drainage is into Latour Lake and ultimately into Lake Temiskaming.

Overburden is relatively shallow over most of the grid. Vegetation on the property is mixed consisting mainly of poplar, birch, cedar, ash and locally dense underbrush.

#### **EXPLORATION HISTORY**

Work reports from the assessment files of the OGS on the grid area refer to the discovery and early work being around 1908 to 1912. Siscoe Metals Ltd completed a small drill program in 1951. The claims have been held from time to time since then but no serious work has been completed.

The claims were acquired by local prospectors and optioned to Branchwater Resources Ltd. In 1998. In 1999 the Branchwater commitments were assumed by Cabo Mining Corp. And a reconnaisance work program involving rock, soil and stream sampling was completed in the south part of Lorrain and Gillies Limit Townships. During the spring and summer of 2000, Cabo has completed a cut grid, ground magnetometer and V.L.F.-EM surveys and geological mapping (Sears, July, 2000).

#### REGIONAL AND PROPERTY GEOLOGY

The area is located in the southern part of the Cobalt mining camp and north of the Silver City mining camp and thus has not been well studied. It was mapped by the Ontario Geological Survey in 1978 (Lovell et al.). The grid area covers the eastern end of a large Nipissing Diabase sill the marks the south shore of Latour and Anderson Lakes. The eastern end of the diabase intrudes Huronian aged Lorrain Formation sediments

One shaft (125 feet deep with underground workings) is the main target on the property. Two other very deep pits or short shafts were located along with numerous other very deep pits, trenches and open cuts. Cobalt bloom is abundant on the muck pile around the main shaft. Muck from many of the other overgrown or flooded pits also exhibits this mineral. Other mineralization noted includes chalcopyrite and pyrite.

#### 2000 WORK PROGRAM AND RESULTS

Ten trenches were excavated during the current program. They are located in parts of three different claims (Map 1). Two others did not reach bedrock at a depth of 4 metres. They were filled back in and the site restored. The total excavation amounted to 680 square metres. The average depth to bedrock was 1.8 metres. A plan showing the trench locations relative to geology and the cut grid as well as claim posts is included in Appendix I along with individual plans of the trenches showing geology and sample locations.

Samples were taken from the trenches. These included channel saw, chip and selected grab samples. The descriptions are included in Appendix II. Assay results will be submitted as an adderdum to this report once they are received.

Appendix III includes several pictures of the trenching operation.

Twenty four (24) samples were systematically collected from the muckpile at the main Lang-Caswell shaft. Sixteen (16) of these were from a depth of 0.3 metres, four (4) from 1.3 metres and four (4) from 2.5 metres. The muck pile is estimated to contain approximately 1000 metric tonnes. Analytical results are unavailable, but will be included in an addendum to this report.

#### CONCLUSIONS AND RECOMMENDATIONS

The stripping program carried out over parts of the Lang Caswell of Cabo Mining Corp. indicates that cobalt mineralization is associated with calcite veining and related calcite matrix breccia. These zones occur at the intersection between northwest and northeast trending fracture structures. Mineralization observed includes cobalt bloom and cobalt sulphide minerals, chalcopyrite and galena.

These may warrant further exploration for silver and cobalt depending upon analytical results..

Wawa, Ontario November 5, 2000 Respectfully submitted,

Seymour M. Sears, B.A., B.Sc. Geologist

#### **REFERENCES**

Lovell, H.L., and de Grijs, J.

1978: Lorrain Township, Southern Part, Concessions I to VI, District of Timiskaming; Ontario Geological Survey Preliminary Map, P1559; Scale 1:15,840.

#### Nicholson, J

1999: Report of Prospecting and Geochemical Surveys on the Lorrain Township Property; an Assessment Report for Cabo Mining Corp.

#### Thompson, R.

1960: Preliminary Report on Bucke Township, District of Timiskaming, Description of Properties. Ontario Department of Mines Report, P.R. 1960-2.

1963: Cobalt Silver Area, Northern Sheet. Ontario Department of Mines Map 2050, Scale 1:12,000.

Assessment Files of the Ontario Geological Survey, Larder Lake Office.

#### Sears, S.

2000: Report on a Work Program on the Lang-Caswell Property, Lorrain Township, Ontario for Cabo Mining Corp. (Assessment Report).

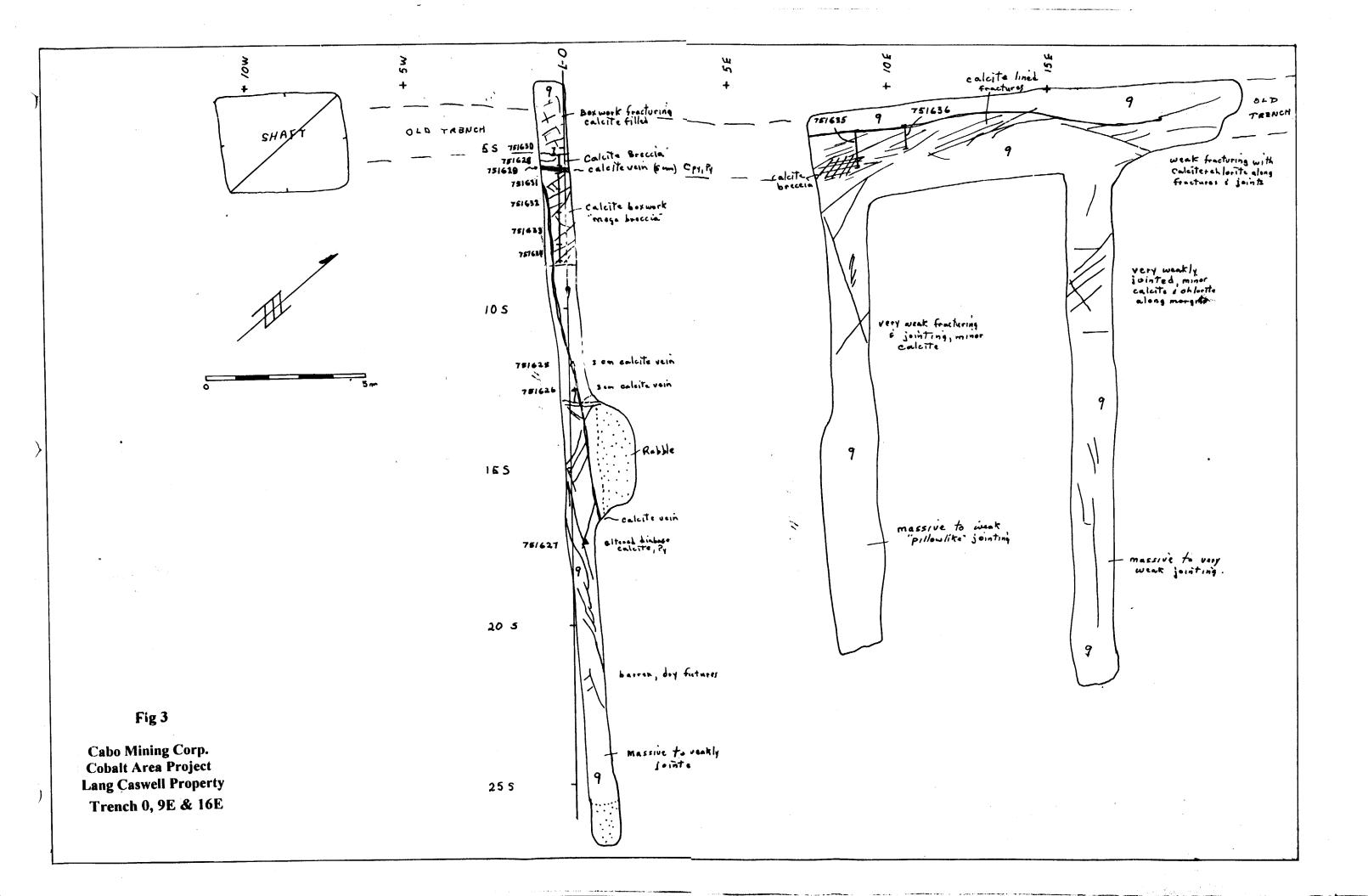
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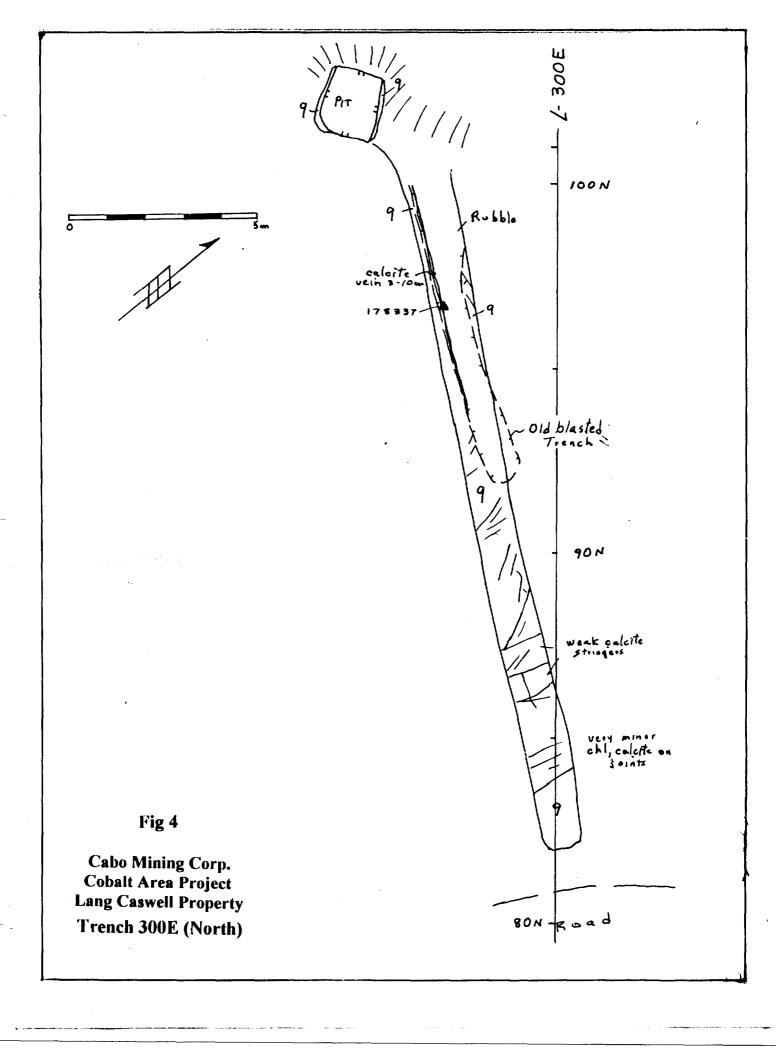
Unit 9) Nipissing Diabase; quartz gabbro and varied textured gabbro; pale to dark grey-green, fine to coarse grained, locally pegmatitic; massive to strongly jointed and fractured; locally altered; undeformed relative to enclosing archean rocks; weakly to moderately magnetic.

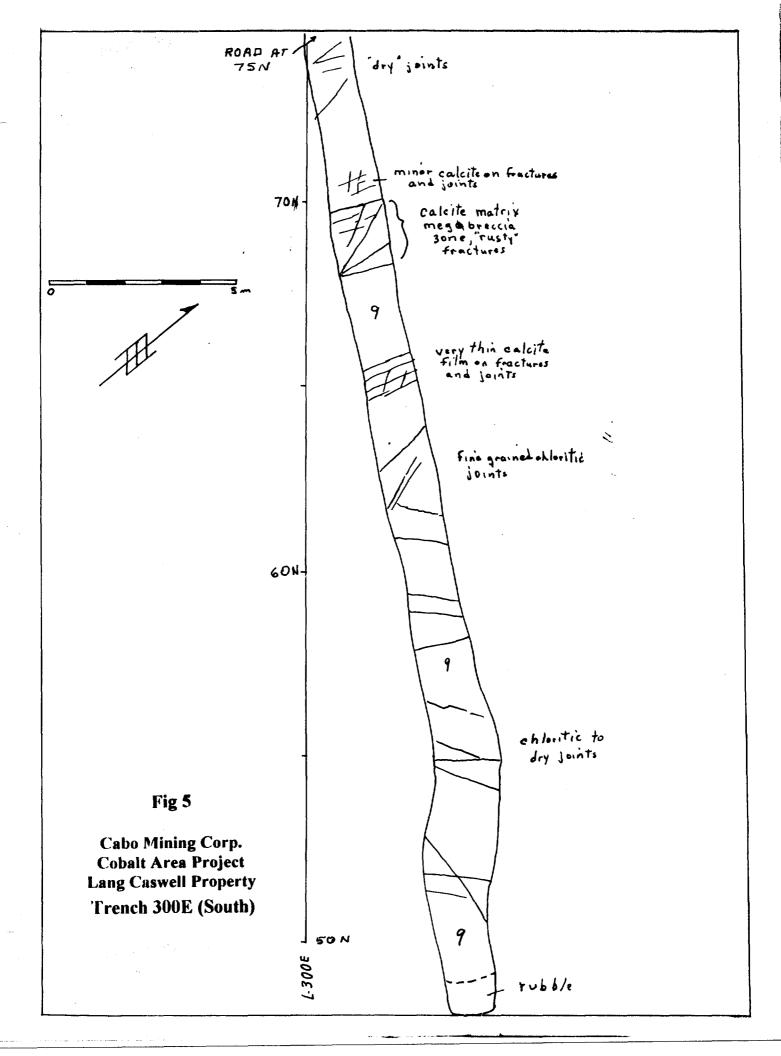
Symbols: Py - Pyrite; Cpy - Chalcopyrite; Er - Erytherite; Gn - Galena; qtz - Quartz stringers;

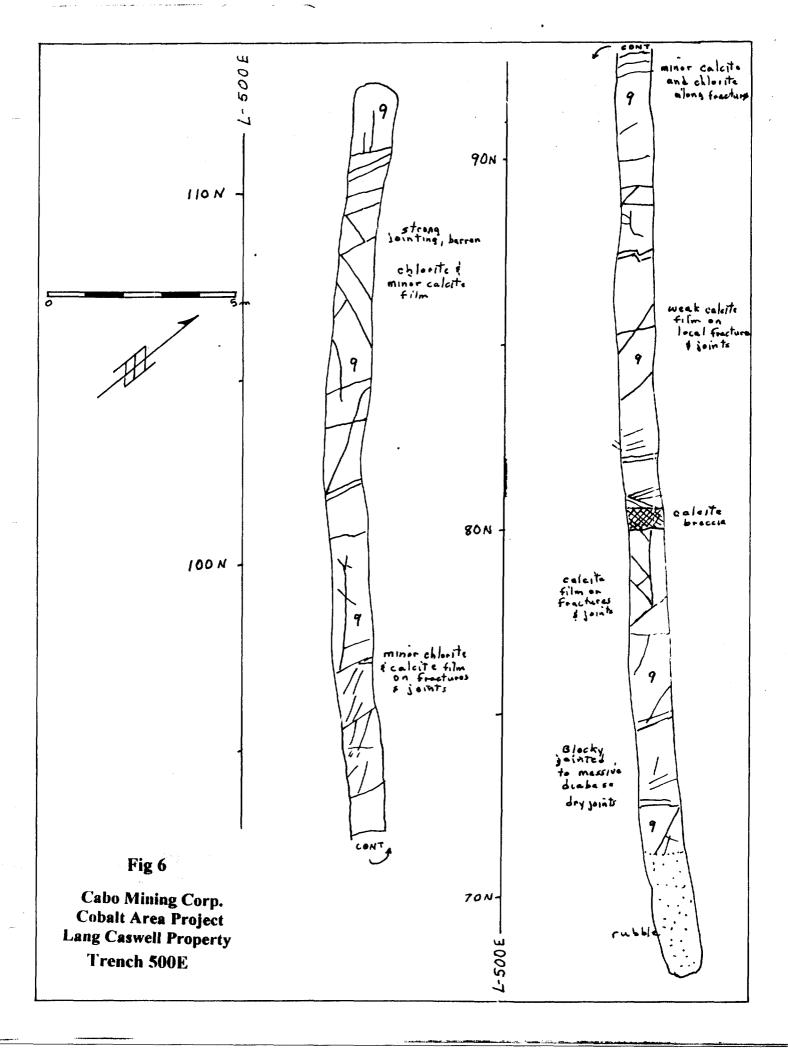
# Appendix I

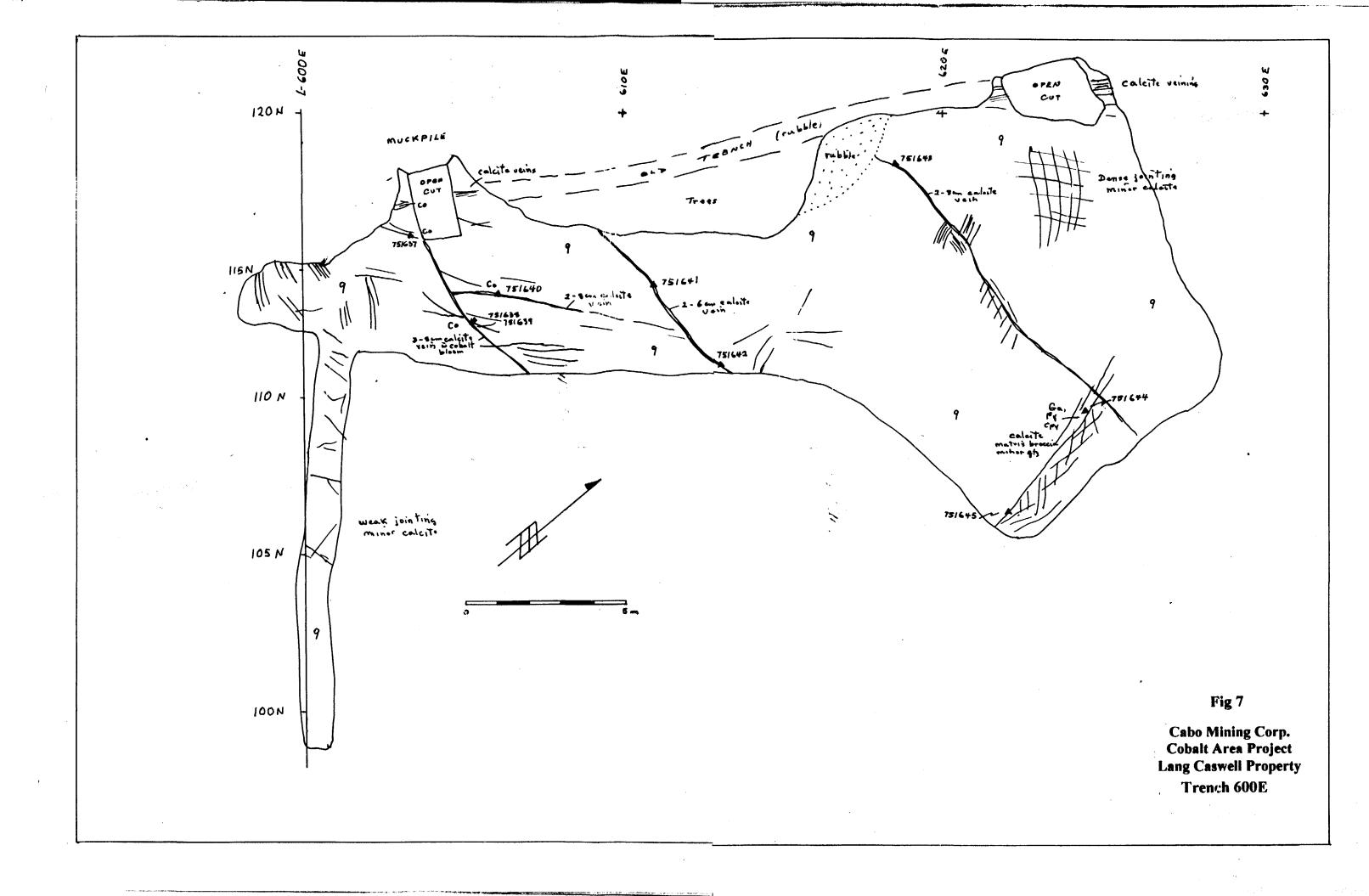
(Trench Plans and Location Sketch)











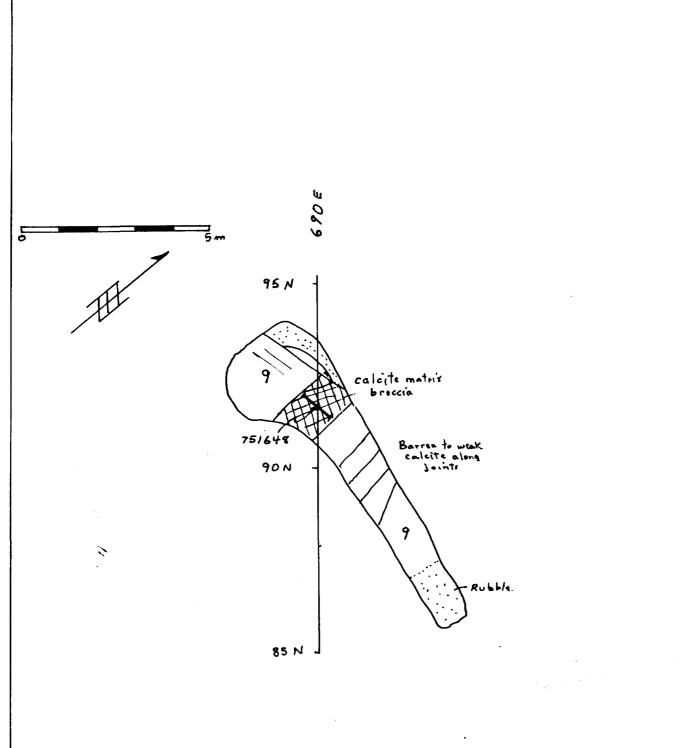
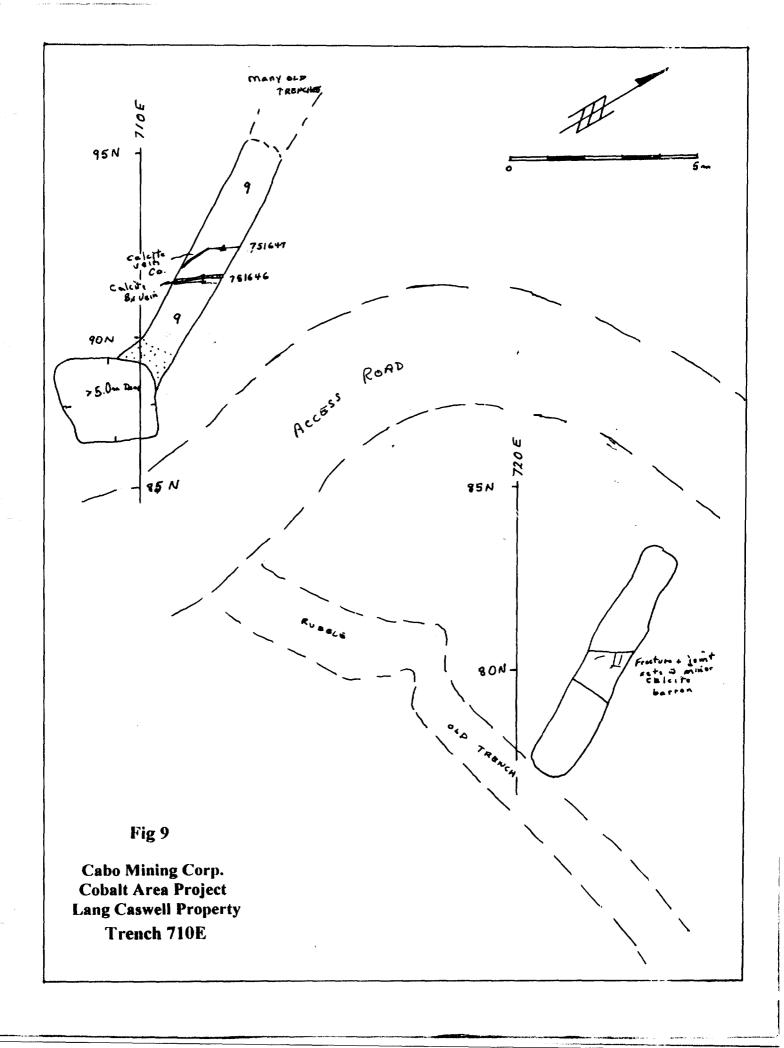


Fig 8

Cabo Mining Corp.
Cobalt Area Project
Lang Caswell Property
Trench 690E



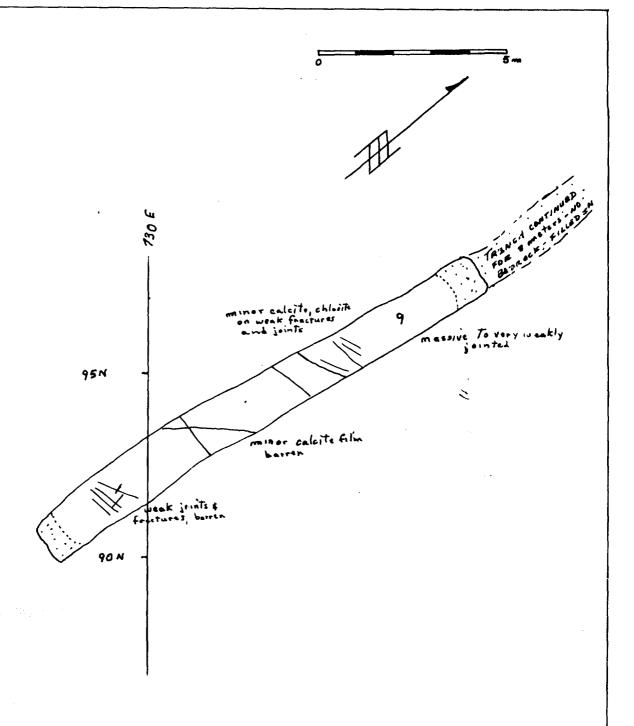
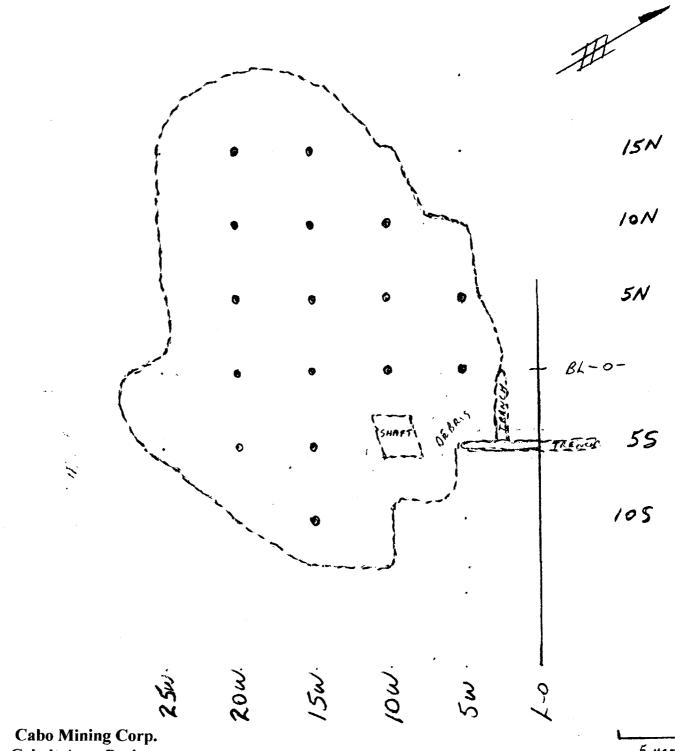


Fig 10

Cabo Mining Corp.
Cobalt Area Project
Lang Caswell Property
Trench 730E



Cabo Mining Corp.
Cobalt Area Project
Lang Caswell Property
Muckpile Sample Locations

5 METRES

# Appendix II

(Analytical Results)

## **Muck Pile Sample Program**

Sample #	Northing	Easting	
<b>7</b> 51601	15N	15 <b>W</b>	
751602	15N	20 <b>W</b>	
751603	10N	20W	
751604	10N	15W	
751605	15N	10 <b>W</b>	
751606	5N	5W	
751607	5N	10 <b>W</b>	
751608	5N	15 <b>W</b>	
751609	5N	20W	
751610	-0-	20 <b>W</b>	
751611	-0-	15W	
751612	-0-	10 <b>W</b>	
751613	-0-	5W	
751614	5S	15 <b>W</b>	
751615	5S	20W	
751616	10 <b>S</b>	15 <b>W</b>	
751617	10N	13W	1 metre depth
751618	10N	13W	2 metre depth
751619	5N	15 <b>W</b>	1 metre depth
751620	5N	15 <b>W</b>	2 metre depth
751621	2N	15 <b>W</b>	1 metre depth
751622	2N	15 <b>W</b>	2 metre depth
751623	<b>2S</b>	15 <b>W</b>	1 metre depth
751624	<b>2S</b>	15 <b>W</b>	2 metre depth

# Appendix III

(Selected Photographs - Trenching Program)



Ministry of Northern Development and Mines

# Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 66(2) and 66(3), R.S.O. 1000

Transaction Number (office use)
W0080, 00416
Assessment Floe Research Imaging



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sections 65(2) and 65(3) of the Mining Act. Under section 6 of the Mining Act, this ent work and correspond with the mining land holder. Questions about this collection sent and Mines, 3rd Floor, 933 Rameey Lake Road, Sudbury, Ontario, P3E 685.

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GEOSCIENCE ASSESSMENT

for Assessment Credit

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Personal Information collected on this form is obtained under the authority of subsection 8(1) of the Assessment Work Regulation 8/98. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 885.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Sackhoe	5/ /m (d)	A55	2705
Labour (clearing)	Mything 13 Marting	237,50	4275
	plies, mobilization and demobilization).	173/week	173
inos spra	mab of Bookhoe Flot fee	300	300
Tr	ansportation Costs		
vehi	6 560 times 60	304	168
A	TV Ruth 7 day &	\$ 50	350
	ood and Lodging Costs	87	
14 Man	Degra (b)	55	776
	Total Value of	/ Assessment Work	# S 1 11

#### **Calculations of Filing Discounts:**

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work,

2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

					_
TOTAL	VALUE	OF A	SSESSI	<b>JENT</b>	WORK

× 0.50 =

Total \$ value of worked claimed.

#### Note:

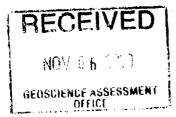
- Work older than 5 years is not eligible for credit.

- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

#### Certification verifying costs:

I,	Sey Mear (please print f	Sear S	_ , do hereby certify	, that the amounts	shown are as a	ccurate as may
reaso	nably be determine	ed and the costs we	ere incurred while co	enducting assessme	nt work on the I	ands indicated on
the ac	ccompanying Decla	aration of Work for	(recorded holder, ag	pent, or state company poels	ion with signing author	i am authorized
	ke this contification					

to make this certification.



Signature	Date
	MM6/00
	MARIA O
1	1

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines



March 14, 2001

MURRAY D SIMPSON GENERAL DELIVERY LATCHFORD, ONTARIO P0J-1N0 Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

**Submission Number: 2.20687** 

**Status** 

Subject: Transaction Number(s):

W0080.00416 Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely.

ORIGINAL SIGNED BY

Lucille Jerome

Acting Supervisor, Geoscience Assessment Office

Lucille Jerome

Mining Lands Section

### **Work Report Assessment Results**

Submission Number: 2.20687

Date Correspondence Sent: March 14, 2001 Assessor: BRUCE GATES

Transaction First Claim

Number Number Township(s) / Area(s) Status Approval Date

W0080.00416 1230445 LORRAIN Approval After Notice March 03, 2001

**Section:** 

10 Physical PSTRIP

The 45 days outlined in the Notice dated January 17, 2001 have passed.

As the analytical results were not provided the assessment work credit has been reduced for 2 days of sampling @ \$237.50/day and food/lodging @ \$55/day.

The assessment credit is being reduced by \$585.00. The TOTAL VALUE of assessment credit that will be allowed, based on the information provided in this submission, is \$8,156.00.

Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office by March 28, 2001 otherwise assessment credit will be cut-back and distributed as outlined in Section #6 of the Declaration of Assessment Work form.

Correspondence to: Recorded Holder(s) and/or Agent(s):

Resident Geologist Seymour Sears

Kirkland Lake, ON WAWA, ONTARIO, CANADA

Assessment Files Library MURRAY D SIMPSON Sudbury, ON LATCHFORD, ONTARIO

CABO MINING CORP. VANCOUVER, BC

# **Distribution of Assessment Work Credit**

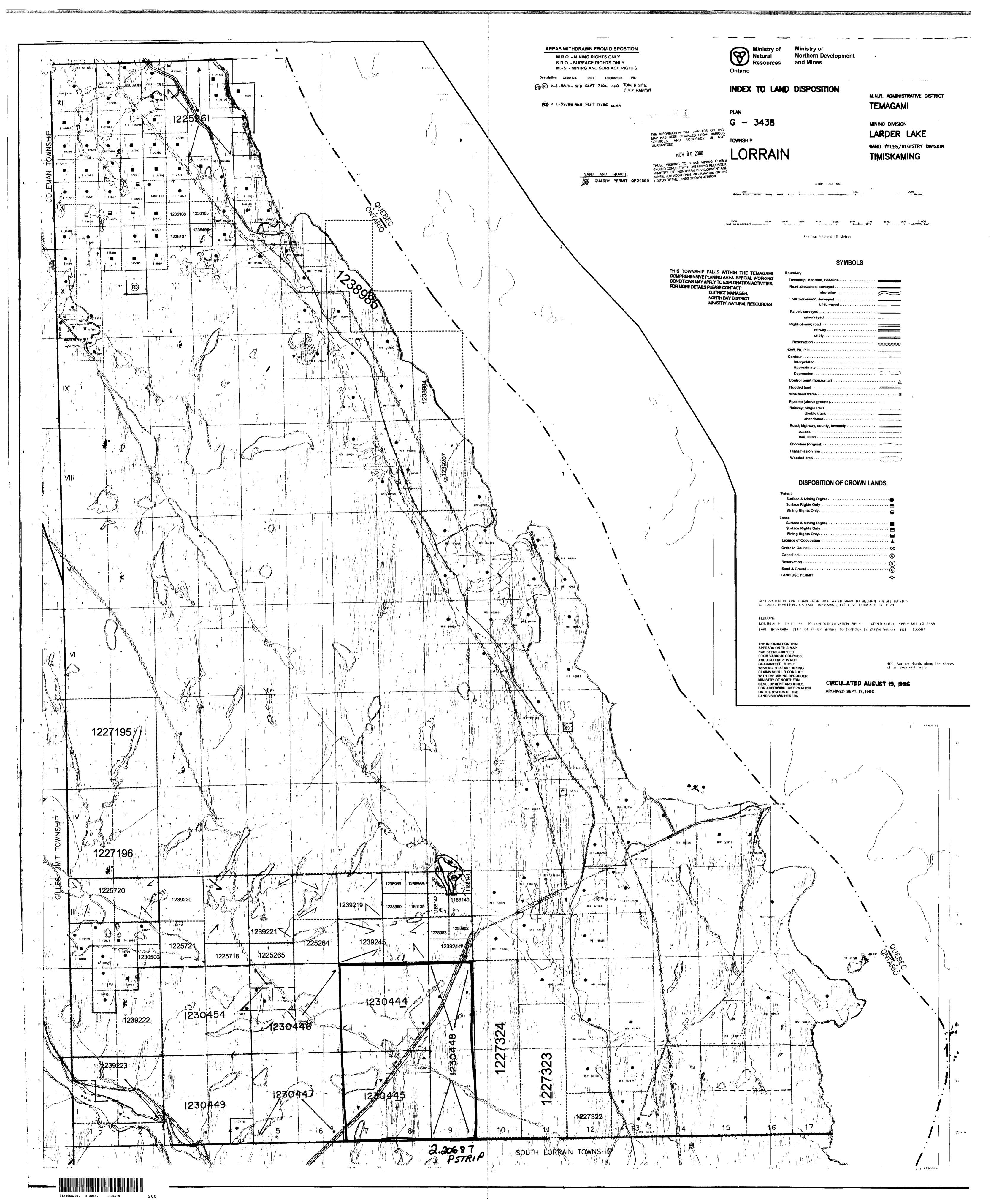
The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: March 14, 2001

Submission Number: 2.20687

Transaction Number: W0080.00416

Claim Number	Value O	of Work Performed
1230445		2,725.00
1230444		4,086.00
1230448		1,345.00
	Total: \$	8,156.00



# Cabo Mining Corp.

