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**SUMMARY REPORT
OF THE
PHASE VI DIAMOND DRILL PROGRAMME
GLIMMER PROPERTY**

**HEMLO GOLD MINES, INC. - GLIMMER RESOURCES LTD.
JOINT VENTURE**

**HISLOP-BEATTY TOWNSHIPS
LARDER LAKE MINING DIVISION, ONTARIO
NTS 42A/9**

**NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)**

**January, 1993
Timmins, Ontario**

**James Garber
Project Geologist**

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I	Diamond Drill Logs
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Maps (In Pockets)

1)	Compilation - Drill Plan	Scale 1:2500
2)	Proposed Drill Locations	Scale 1:2500

Drill Sections (In Pockets)

<u>DDH</u>	<u>Section</u>
GL92-66	L1075E
GL92-67	L17E
GL92-68,74	L1700E
GL92-69	L1050E
GL92-70	L1500E
GL92-71	L1300E
GL92-72	L860E
GL92-73	L1225E
GL92-74	L1700E
GL92-75	L1950E
GL92-31 (ext.)	L800E



SUMMARY

Between September 10 and December 10, 1992, a sixth phase of diamond drilling was completed on the Glimmer property. Eleven holes totalling 4089 meters were completed in an attempt to increase reserves beyond the current geological reserve estimate of 1,022,078 tonnes grading 10.44 grammes per tonne gold (cut to 34.29 g/t). Geological reserves were not significantly increased as a result of this programme.

Drilling focused on three areas of the property - (a) the eastern strike extension of the East Zone host stratigraphy, following up gold mineralization in hole 91-60 (111.7 g/t Au over 1.0 metre and 0.9 g/t Au over 12.1 metres), (b) at depth below the West and East Zones and (c) magnetically inferred ultramafic - mafic volcanic stratigraphy to the north of the mineralized zones.

(a) The test of the eastern strike extension of the East Zone stratigraphy succeeded in reestablishing the stratigraphy to the east of the N-S fault intersected in hole 91-59 but failed to intersect significant gold mineralization within the target horizons.

(b) Relatively deep drilling below the known zones penetrated the target host stratigraphy, favourable ankerite-alteration zones and ankerite-quartz veining. The best results and only gold mineralization greater than 1.5 g/t were returned from hole 70, the most easterly of the deep holes. Visible gold associated with ankerite-quartz veining was noted within the target zone of ultramafic volcanics. Assays from this intersection averaged 9.6 grams/tonne (cut to 34.29 g) over 4 metres, including 88 grams/tonne over 1 metre where the visible gold was noted.

(c) Zones of encouraging ankerite alteration affecting mafic and ultramafic volcanics and sediments were penetrated in the northern stratigraphy but no significant mineralization was intersected.

Additional drilling is recommended, including exploration and delineation holes. Six holes totalling 1550 metres are proposed. It is also recommended that the Truax option payments be made and the DeCarlo option be terminated when the option payments are due in October 1993.

Should the above proposed program not significantly alter the outlook for increasing current reserves a second phase of work including reevaluation of current reserves and definition drilling is recommended.

The estimated cost of the 2 programmes, excluding the DeCarlo option payment, is \$359,750.

INTRODUCTION

Phase VI diamond drill programme was conducted on the Glimmer Property between September 10 and December 10, 1992. Eleven holes totalling 4089 metres were completed increasing the cumulative total on the property to 75 holes totalling 9416 metres.

This report follows the January, 1992 Summary Report of the Phase V Diamond Drill Programme on the Glimmer Property by J. Garber and outlines the results of the current drill programme.

The diamond drill contract was completed by Norex Drilling Limited, Porcupine, Ontario. All drill core was NQ size unless ground conditions required reduction to BQ. Split core samples were submitted to Swastika Labs, Swastika, Ontario and Chemex Labs Ltd., Rouyn, Quebec (sample preparation) and North Vancouver, British Columbia for assaying. Drill core specimens collected for whole rock analysis were sent to Chemex Labs Ltd. for processing.

All core is stored at the Noranda core storage area at the Aunor Minesite or at the office location at 60 Shirley Street South, Timmins.

Funding for this work was provided by Hemlo Gold Mines Inc., and Glimmer Resources Ltd. on a 60/40 pro-rata basis according to terms of an agreement dated May 2, 1989.

DIAMOND DRILLING

The main objective of the programme was to increase reserves beyond the current geological reserve estimate of 1,022,078 tonnes grading 10.44 grams per tonne gold (cut to 34.29 gpt). Toward this goal drilling focused on three areas: a) the eastern extension of the East Zone host stratigraphy, b) at depth below the West and East Zones, and c) ultramafic-mafic volcanic stratigraphy to the north of the East and West Zones.

Drill hole locations are shown on Map 1 (pocket) and drilling data are summarized on Table

1. Drill hole results are described as follows:

EAST ZONE

Drill holes GL92-67,68,74 and 75 tested the eastern extension of East Zone stratigraphy.

Holes GL92-67 and 68 were drilled in the vicinity of the East Zone to follow up gold mineralization intersected in hole GL91-60 (111.7 g/t Au over 1.0 metres and 0.9 g/t Au over 12.1m) and aid correlation of the stratigraphy with the East Zone.

The target ultramafic-mafic volcanic stratigraphy was intersected approximately where expected. Strong ankerite alteration of the ultramafic volcanics and carbon alteration of the target mafic volcanics accompanied by patchy pyritic intervals was noted in hole 67. Pyrite mineralization was stronger in the mafics in hole 68; however, only low gold assays were returned from these intervals. The best assay was 1 g/t Au over 2 metres in hole GL92-68.

TABLE 1

1992 NOREX
DRILL SUMMARY

HOLE NO.	LOCATION				ESTIMATED DEPTH	TARGET	DATE FINISHED	O.V. DEPTH	FINAL DEPTH	SIGNIFICANT RESULTS	SIGNIFICANT ASSAYS	ASSAY WIDTH
	DEPARTURE	LATITUDE	AZIMUTH	ANGLE								
<u>GL-92-66</u> D	1075E	1375N	040°	-50°	300m	Northern mafic-ultramafic stratigraphy	Sept. 17/92	17	353m	Silicified-ankerite alteration zone.	1.4 g/t	1.5m
<u>GL-92-67</u> A	1655E	1470N	010°	-50°	200m	-75m level 60m up dip from hole 91-60, stratigraphic hole.	Sept. 19/92	14	164m	Pyritic mafic volcanic.	Nil	
<u>GL-92-68</u> B	1700E	1400N	040°	-50°	275m	-125m level 50m east stepout from 91-60, stratigraphic hole.	Sept. 23/92	38	254m	Pyritic mafic volcanic.	1.0 g/t	2.0m
<u>GL-92-69</u> E	1050E	800N	040°	-71°	500m	-350m level below West Zone.	Oct. 4/92	36	539m	Strong talc-ankerite alteration zone.	1.5 g/t 1.0 g/t	1.6m 1.0m
<u>GL-92-70</u> F	1500E	900N	040°	-74°	525m	-400m level below East Zone.	Oct. 16/92	9.5	521m	Visible gold in quartz-ankerite vein zone cutting talc-chlorite ankerite altered ultramafic volcanics.	9.6 g/t (cut) (includes 88 g/t)	4.0m 1.0m
<u>GL-92-71</u> G	1300E	780N	040°	-69°	550	-450m level between East & West Zones.	Oct. 31/92	0.8	557m	Narrow pyritic zones in mafic and ultramafic volcanics. Ankerite alteration envelope.	1.1 g/t 1.2 g/t 1.4 g/t 1.0 g/t	1.0m 1.2m 0.9m 0.5m
<u>GL-92-72</u> H (Revised)	860E	825N	040°	-69°	450	-350m level below West Zone.	Nov. 11/92	42	549m	Ankerite alteration envelope. Local fuchsite altered ultramafic volcanics.	Nil	
<u>GL-92-73</u> I (Revised Hole C)	1225E	1451N	040°	-47°	275m	Northern Alteration Zone -125m level 150m E along strike from hole 92-66.	Nov. 17/92	40	275m	Strong ankerite local fuchsite altered ultramafics.	Nil	

1992 NOREX
DRILL SUMMARY

HOLE NO.	LOCATION			ANGLE	ESTIMATED DEPTH	TARGET	DATE FINISHED	O.V. DEPTH	FINAL DEPTH	SIGNIFICANT RESULTS	SIGNIFICANT ASSAYS	ASSAY WIDTH
	DEPARTURE	LATITUDE	AZIMUTH									
<u>GL-90-31</u> Ext.	800E	1165N	040°	-50°	450m	Northern horizon at -375m elv., deepening of hole 90-31.	Nov. 25/92	---	224 to 458m (234m)	Strong ankerite, weak local sericite, fuchsite altered mafic volcanic, 5-10% pyrite.	Nil	
<u>GL-92-74</u> A	1700E	1250N	040°	-68°	450m	-350m level 50m east strike extension of mineralization in hole 91-60.	Dec. 7/92	21m	446m		1.38 g/t	1.0m
<u>GL-92-75</u> B	1950E	1460N	040°	-45°	200m	250m east along strike from hole 92-74.	Dec. 10/92	18m	197m	Nil	Nil	

The approximate attitude of the stratigraphy as determined by the target mafic volcanic unit intersected in hole 60,67 and 68 is; strike 112°, dip -57°S.

DDH GL92-74 located grid south of holes GL91-60, 92-68 was planned to test the -350 metre level for gold mineralization intersected in hole 91-60 and provide stratigraphic information 150 metres easterly along strike from the East Mineralized Zone. The target mafic volcanic, although thickening significantly below holes 60 and 68, was intersected where anticipated within a succession of intercalated mafic and ultramafic volcanic flows. Weak chlorite and calcite alteration was noted but ankerite alteration was absent. No significant mineralization was noted. The best assay returned was 1.4 g/t Au over 1 metre from a weakly pyritic quartz vein cutting mafic volcanics higher in the stratigraphy.

DDH GL92-75 was positioned 260 metres along strike to the southeast of hole GL92-68 to test the strike extension of the strong ankerite alteration and pyritic mafic volcanic intersected in that hole and similarly in hole 91-60. A wide interval (160m) of ultramafic volcanics followed by mafic volcanics was intersected. The ultramafics were variably chlorite-talc-calcite-altered and in places mineralized weakly with pyrite and chalcopyrite. It is uncertain whether the mafic volcanics intersected at the end of the hole was the target flow. No significant alteration was noted and no significant assays were returned from this hole.

DEEP DRILLING

Four holes, GL92-69,70,71 and 72 tested the depth potential below the East and West mineralized zones at the -400 to -430 metre levels. Prior to this programme the East Zone had been tested to the -275 meter level and the West Zone to the -225 meter level. Down dip distances range from 150 to about 300 metres.

After penetrating a "hangingwall" sequence of generally brecciated talc-chlorite \pm calcite altered ultramafic volcanics and variably deformed to undeformed mafic volcanics, hole 69, 70 and 71 all intersected the target ankerite alteration zone (envelope) approximately where anticipated confirming the extension of the zone at depth. Within this ankerite envelope a zone of strong talc-ankerite +/- chlorite alteration hosting an ankerite-quartz vein zone was intersected in each hole.

In hole GL92-69 narrow intervals of pyritic mafic volcanics near mafic-ultramafic contacts (outside the ankerite alteration envelope) returned assays to 1.5 g/t gold. Within a talc-ankerite alteration zone correlating with the alteration zone in hole GL90-26 up dip, a 10 metre interval of mixed feldspar porphyry and chloritic altered ultramafic volcanics carried 5-8% disseminated pyrite and minor chalcopyrite but no significant gold assays were returned.

The best gold assay averaging 88 grams/tonne over 1 metre was returned from a 4 metre wide vein zone (9.6 g/t Au over 4 metres (cut)) in hole GL92-70, approximately 150 metres down dip from hole GL91-56 in the East Mineralized Zone. Visible gold was noted as 1 to 2 mm specks along chloritic slips within this interval. Other assays up to 2 g/t were returned from the same zone.

Hole GL92-71 intersected a 1 metre wide vein zone within the same talc-ankerite alteration zone encountered in hole GL92-70. Two moderately pyritic samples of ultramafic volcanics returned low gold assays of 1.4 g/t over 0.9m and 1.0 g/t over 0.5 metres. Two other scattered 1 gram assays were returned from weakly pyritized mafic volcanics higher in the hole.

Drill hole GL92-72 (proposed hole H) was drilled to test the depth potential (-350 metre level) below the west mineralized zone. A wide zone (85 metres) of intercalated ultramafic and mafic

volcanics was intersected within the anticipated alteration envelope. Green-carbonate-sericite alteration was evident over a narrow 1 metre interval at the -485 metre level within this zone, somewhat deeper than expected. No significant mineralization was noted. No significant gold assays were returned.

SIGNIFICANT ASSAYS (>1 g/t Au)

<u>DDH</u>	<u>From - To</u>	<u>Width (m)</u>	<u>g/t Au</u>	<u>Description</u>
GL92-69	250.4-252.0	1.6	1.52	3-5% pyrite in chloritic pillowed mafic volcanic
	278.0-279.0	1.0	1.03	3-5% patchy fine pyrite in chloritic mafic volcanic
	421.0-431.5			287-2830 ppm Cu in feldspar porphyry/um
GL92-70	426.3-427.3	1.0	2.03	Quartz-ankerite vein zone talc-chlorite-ankerite altered ultramafic volcanic
	427.3-428.3	1.0	0.58	
	428.3-429.3	1.0	1.68	
	429.3-430.3	1.0	88.00	
GL92-71	174.1-174.1	1.0	1.11	5-8% pyrite in ankerite-calcite-quartz veined ultramafic
	280.4-281.6	1.2	1.15	5-8% fine pyrite in calcite-quartz inclusions in mafic volcanic
	480.1-481.0	0.9	1.39	1-2% disseminated fine to medium grained pyrite in "porphyry"
	483.5-484.0	0.5	1.04	2-3% pyrite in chloritic mafic dyke
GL92-72	No significant assays.			

NORTHERN STRATIGRAPHY

Three holes GL92-66,73 and 31 extension, tested the magnetically inferred mafic-ultramafic stratigraphy to the north of the known mineralized zones.

The first hole of this programme, GL92-66, was planned to test the northern stratigraphy to the north of the west mineralized zone. A sequence of ultramafic volcanics followed by mafic volcanics and (Porcupine) sediments was penetrated. Two zones of strong-ankerite alteration were noted within the mafic volcanics; one zone about 8 meters drilled width at the ultramafic-mafic volcanic contact and a wider zone (approximately 60 meters) above the mafic-sediment contact, accompanied by intervals of silicification and brecciation. Near the ultramafic-mafic contact fuchsite alteration also affects the mafic volcanics. Minor sulphide mineralization was noted. The best assay was 1.40 g/t Au over 1.5 metres in mafic volcanics.

Drill holes GL92-73 and 90-31 extension were drilled to follow-up the ankerite-silica alteration zone intersected within northern stratigraphy in hole GL92-66.

All three holes (66,73,31 ext.) penetrated the mafic volcanic-(Porcupine) sediment fault-contact. Within hole 92-73, 150 metres along strike to the southeast of hole 92-66, a 70 metre wide zone of ankerite \pm sericite altered ultramafic volcanics followed by intercalated ultramafic and mafic volcanics was intersected above the sediment contact. Narrow (<1 to 1m) wide fuchsite-sericite altered intervals were noted within the ultramafics. No significant mineralization was noted and no significant gold assays were returned from this hole.

The extension of hole GL90-31, 275 metres along strike to the northwest of hole 92-66, intersected approximately 45 metres of variable (weak to moderate) ankerite \pm sericite alteration within mafic volcanics above the mafic-sediment contact. A one metre wide interval of quartz-ankerite-sericite alteration accompanied by 5-10% fine to medium grained disseminated pyrite was intersected in the mafic volcanics at a graphitic fault zone in contact with the sediments. No significant assays were returned from this zone.

As indicated by the attitude of the mafic volcanic-sediment contact, the northern stratigraphy strikes at about 113° and dips 69° to the south. This is generally 15 to 20° steeper than the stratigraphy that hosts the east and west mineralized zones.

DISCUSSION

(A) East Zone Extension - Drilling along strike to the east of the East Zone succeeded in re-establishing the stratigraphy to the east of the N-S fault intersected in hole GL91-59. The target ultramafic-mafic volcanic stratigraphy was intersected where anticipated, accompanied by strong ankerite alteration in holes 67 and 68, however, no significant gold mineralization was intersected. Ankerite alteration was absent in hole 74 (testing stratigraphy down dip from holes 91-60, 92-67 and 68), and in hole 75, 260 metres along strike to the southeast. Hole 75 was drilled approximately 150 metres west of the east property limit leaving little room for further potential in that area of the property.

(B) Deep Drilling - Holes 69,70,71 and 72 were drilled to intersect the host stratigraphy at the -350 to -400 meter levels. The stratigraphy generally steepens at depth to dips of -60 to -65° causing intersections of the target stratigraphy in holes 69 and 72 to be deeper than anticipated. The ankerite alteration envelope affecting the host ultramafic and mafic volcanics within the West and East Zones was intersected in all 4 holes. Green carbonate alteration and/or ankerite-quartz vein zones were also intersected within the target stratigraphy; however, the best results and only significant gold mineralization was intersected in hole 70 where the assayed intersection averaged 9.6 grams/tonne Au (cut to 34.29g) over 4 metres, including 88 grams/tonne over 1 metre where visible gold was noted.

The poor assay results from holes 69, 71 and 72 provide little encouragement for further gold mineralization deeper below the West Zone or between the West and East Zones. The gold mineralization in hole 70 certainly indicates gold in the system down-dip from the East Zone; however, the nature of the mineralization-free gold on chloritic slips over a narrow interval, suggests little likelihood for significant additional reserves at depth below the East Zone.

(C) Northern Stratigraphy - The drill testing of the northern stratigraphy was planned primarily to test favourable stratigraphy extending up-dip onto the DeCarlo option realizing high option payments were coming due in October 1993 (\$30,500 US).

Encouraging zones of ankerite alteration were encountered in all holes but no significant gold mineralization was intersected, diminishing further potential on the DeCarlo option.

A favourable environment remains along strike to the southeast of hole 92-73, the most easterly of the holes testing the northern stratigraphy. Although no significant mineralization was noted in hole 73, encouragement is offered by strong ankerite alteration, fuchsite and quartz-ankerite veining combined with more complex, intercalating mafic-ultramafic stratigraphy above the sediments than noted in holes 66 and the extension of 90-31 to the west.

CONCLUSIONS

Geological (gold) reserves were not significantly expanded on the Glimmer property as a result of the Phase VI diamond drill programme. No significant mineralization that would contribute to reserves was intersected in the East Zone extension or test of the northern stratigraphy. It is possible, but doubtful, that the narrow intersection of free gold in hole 70 is continuous with mineralization up-dip in the East Zone. The stratigraphic position of the intersection correlates well with the mineralized zone up-dip but the nature of the mineralization offers little confidence of continuity.

The possible expansion of known reserves now appears confined to the intervals between the known zones and the current round of drilling or in the up dip direction between the known zones and the surface.

Remaining potential on the property exists with the east strike extension of the altered northern stratigraphy and other targets proposed after previous programs, ie. untested stratigraphy along strike to the west of the West Zone and hole 90-61, the magnetic low that extends under Froome Lake and magnetically inferred mafic-ultramafic stratigraphy toward the southwestern part of the property.

RECOMMENDATIONS

It is recommended that the Truax option payment coming due in April 1993 be paid. The DeCarlo option payment coming due in October should not be paid and the option terminated at that time.

Additional drilling including exploration and delineation drilling is proposed for 1993. Exploration drilling recommended includes other geophysical targets recommended following the Phase V drill programme, but not drilled and a further test of the ankerite altered ultramafic-mafic volcanic 'Northern' stratigraphy along strike to the southeast of hole 73. Three delineation holes are recommended for the East and West mineralized zones to test the NW and SW rakes of the known zones of mineralization.

Upon completion of this next phase of drilling and depending upon the outcome of the programme the economic potential of the existing mineralized zones and remaining exploration potential on the property should be re-evaluated.

EXPLORATION PROPOSAL

Phase I

A drill programme comprising 6 holes totalling 1550 metres is proposed for the Glimmer Property. Three exploration holes totalling 725 metres are proposed to test the following targets.

- a magnetic low similar to that of the West Zone that extends under Froome Lake;

- a NW-SE trending magnetic low interpreted as mafic volcanics within ultramafic volcanic flows. The northwest trending Ross Fault is interpreted as cutting through this part of the property.

- one hole to test the ankerite altered northern ultramafic - mafic volcanic stratigraphy along strike to the east of hole 92-73.

Three delineation holes totalling 825 metres are proposed for the East and West mineralized zones. One hole is proposed for the West and two holes for the East Zone. The three holes are designed to test the NW and SW rakes of the known zones of mineralization. All holes are oriented at Az. 040° and inclined at -45 to -50° north to adequately test multiple lenses within each zone.

Proposed drill hole locations are shown on Figure 1 and Map 2. Drill hole data is outlined in Table 2.

Providing this next phase of drilling does not substantially alter the outlook for increasing current reserves then the following additional programme is recommended:

Phase II

- 1) Evaluation of the current reserves.
- 2) Review of the more immediate areas surrounding the East and West zones to estimate any further potential.
- 3) If the above studies warrant further work, a programme of definition drilling of the near surface reserves by utilizing air track equipment to drill holes on tight centres is recommended.

ESTIMATED EXPENDITURES OF PROPOSED PROGRAM**GLIMMER PROJECT****1993 OPTION PAYMENTS**

Truax	April 6, 1993	<u>31,500</u>	
			31,500

PHASE I

Drilling	1550m @ 45	70,000	
Engineering	51 @ 275	14,000	
Assays	400 @ 20	8,000	
Services		<u>6,500</u>	
		98,500	
	Overhead 15% (excluding option payments)	<u>14,750</u>	
	Subtotal	113,250	
	Total		144,750

PHASE II

Reserve Study	10 days @ 300/day	3,000	
Exploration Potential	4 days @ 300/day	1,200	
Definition Drilling	(Air Track) 8000m (100x80m)@15/m	120,000	
Engineering	30 @ 300	9,000	
Assays	2000 @ 25	50,000	
Services		<u>3,800</u>	
		187,000	
	Overhead 15%	<u>28,000</u>	
	Total		<u>215,000</u>

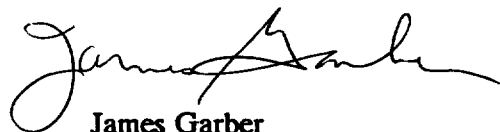
GRAND TOTAL			359,750
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CONTRIBUTIONS AS PER THE AGREEMENT

HEMLO 60%	215,850
GLIMMER 40%	<u>143,900</u>
TOTAL	359,750

Respectfully submitted

Noranda Exploration Company, Limited
(No Personal Liability)



James Garber
Project Geologist

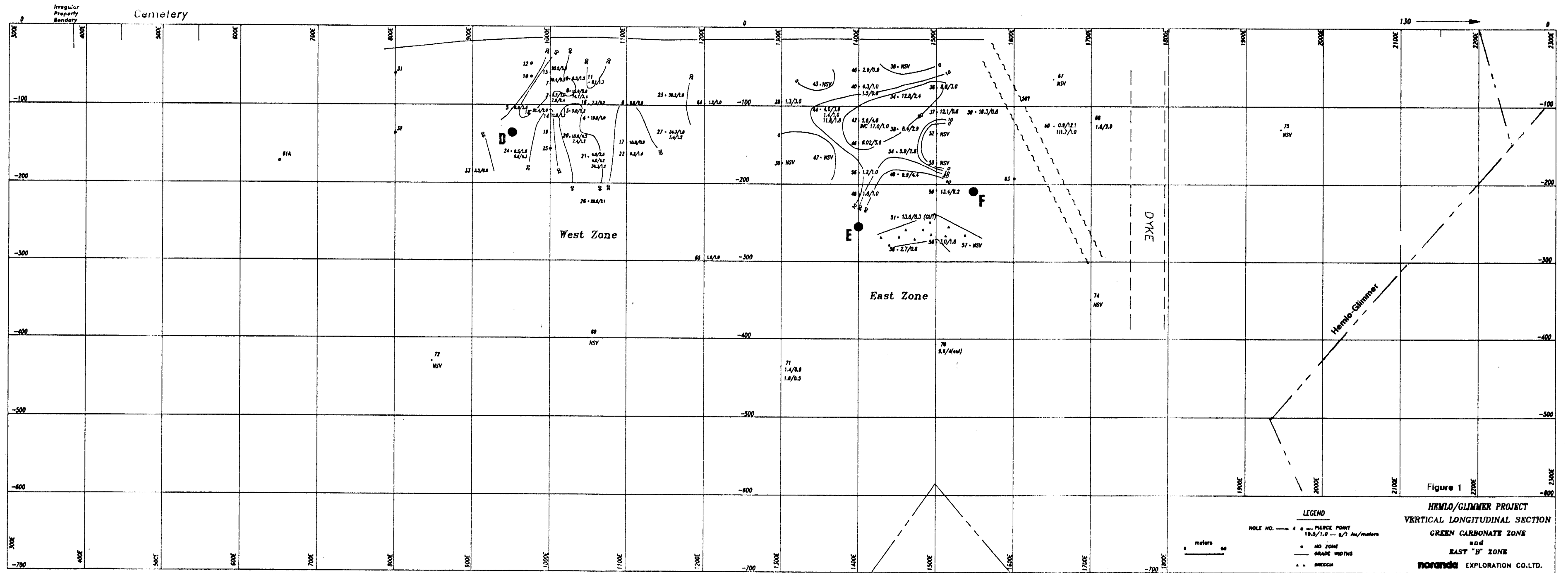


Figure 1

HRMLO/GLIMMER PROJECT
 VERTICAL LONGITUDINAL SECTION
 GREEN CARBONATE ZONE
 and
 EAST "B" ZONE
 NORANDA EXPLORATION CO. LTD.

● Proposed Hole

30-C-143
 07/04/93

TABLE 2

PROPOSED DRILL HOLE LOCATIONS

HOLE NO.	LOCATION				ESTIMATED DEPTH	TARGET	DATE FINISHED	O.V. DEPTH	FINAL DEPTH	SIGNIFICANT RESULTS	SIGNIFICANT ASSAYS	ASSAY WIDTH
	DEPARTURE	LATITUDE	AZIMUTH	ANGLE								
EXPLORATION HOLES												
A	1700E	1600N	040°	-50°	250	Altered mafic-ultramafic northern stratigraphy						
B	650E	840N	0°	-50°	225	Mag low East of Froome Lake						
C	1000E	620N	040°	-50°	225	Ross Fault? Mafic-ultramafic contact (mag low)						
DELINEATION HOLES												
D	950E	1015N	040°	-50°	200	-130m level test NW rake from hole 18						
E	1400E	975N	040°	-67°	350	-250m level 50m west extension from hole 51 (13.8 g/t Au over 8.3m cut)						
F	1550E	1070N	040°	-65°	300	-210m level 50m east extension from hole 50 (13.4 g/t Au over 6.2m)						
					TOTAL	1550m						

TABLE 3

STATEMENT OF EXPENDITURES
 FOR THE PERIOD OF SEPTEMBER 1, 1989 - DECEMBER 1992
 NOREX-GLIMMER AGREEMENT DATED MAY 2, 1989
 GLIMMER PROPERTY

	1989	1990	1991	1992	TOTAL
TECHNICAL STUDIES	\$1,697.29	\$0.00			\$0.00
PROPERTY ACQUISITION	\$9,869.65	\$14,115.40	\$41,159.00	\$59,696.00	\$114,970.40
GEOPHYSICS	\$29,676.48	\$2,520.69	\$11,496.00		\$14,016.69
GEOLOGY	\$1,616.67	\$0.00			\$0.00
DRILLING	\$195,001.25	\$440,592.93	\$376,288.49	\$257,876.63	\$1,074,758.05
SUB TOTAL	\$237,861.34	\$457,229.02	\$428,943.49	\$317,572.63	\$1,203,745.14
OVERHEAD 15%	\$35,679.20	\$68,584.35	\$64,341.52	\$44,054.13	\$176,980.00
TOTAL EXPENDITURES	<u>\$273,540.54</u>	<u>\$525,813.37</u>	<u>\$493,285.01</u>	<u>\$361,626.76</u>	<u>\$1,380,725.14</u>
NOREX-HEMLO SHARE	\$269,075.94	\$311,624.01	\$299,835.01	\$219,125.12	\$1,099,660.08
GLIMMER SHARE	\$4,464.60	\$214,189.36	\$193,450.00	\$142,501.64	\$554,605.60

1992 costs include Truax payment of \$8,800 made directly by Glimmer Resources.

APPENDIX I

Drill Logs

LATITUDE 1375N

DEPARTURE L1075E

ELEVATION 0

DIP AT COLLAR -50° BEARING 040°

TOTAL DEPTH 353.0m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage-Timmins

REMARKS Casing pulled

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 1 OF 6

Project No. 160 Hole No. GL-92-66

Property Glimmer Truax

NTS. 42A/9 TWP. Hislop Claim No. Patent

Date started Sept. 10, 1992 completed Sept. 17, 1992

Contractor Norex Drilling

Logged by J. Garber

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
50m	-50°		
90m	-49°		
150m	-49°		
210m	-49°		
270m	-49°		
330m	-47°		

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-17.0 OVERBURDEN				
17.0-209.8 ULTRAMAFIC VOLCANICS	<p>Black, graphitic to fine grained, massive to foliated, magnetic. 3-5% white calcite filling fractures. Polysuturing evident in places. Foliation at 40-50° to c.a.</p> <p>17.0-71.0 30-40% intermittent rubble/crushed zones and breccia. Strong to moderately magnetic. Magnetic characteristics of core weakens after 71.0m.</p> <p>67.6-69.5: Mafic Dyke - porphyritic within .5 meter of contacts. Sub-hedral to anhedral feldspar phenocrysts to 5cm.</p> <p>118.6-119.8 Mafic Dyke - black, aphanitic to porphyritic with 3% olive green, serpentine? phenocrysts to 5mm in diameter. Upper contact irregular, lower contact at 70° to c.a.</p>	<p>Talc-chlorite alteration, weak to moderate calcite ± chlorite ± talc marbling/fracture filling and healing ultramafic breccia fragments.</p>	<p>Trace pyrite.</p>	<p>Fault Zone?</p> <p>69.5-71.0 Ground and lost core.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 6

Project No. 160 Hole No. GL-92-66

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>131.0-132.0</u> 5% narrow, 1-2cm quartz ± ankerite veinlets, subparallel to 40° to core axis.</p> <p>107.1-112.0: Medium green colour-harder than talc-chlorite intervals, calcite marbling to about 5%.</p> <p><u>171.0-173.0</u> Foliation at 50 to 70° to c.a. Minor quartz-carbonate veinlets and blebs.</p> <p><u>190.8-191.0</u> Fault gouge, rubble.</p> <p><u>198.8</u> Foliated at 60° to c.a.</p> <p><u>202.7-204.0</u> Medium green colour, hard as at 107.1-112.0. Spotted with 1-2% pyrite cubes, blebs to 5mm.</p> <p><u>205.0-209.3</u> More pronounced foliation at 55-60° to c.a. Fragments of volcanics quartz and/or calcite aligned with foliation -brecciated appearance.</p> <p><u>209.3-209.8</u> 80-90% quartz-calcite fragments with fine chlorite partings. Minor (3-5%) fuchsite/sericite healing quartz-carbonate fragments.</p>	<p>126.0 Carbonate alteration is principally ankerite. Above 126m, carbonate is principally calcite.</p> <p>Possible chlorite ± epidote alteration.</p> <p>Chlorite, possibly weakly silicified.</p> <p>Talc-chlorite calcite ± talc ± quartz marbling, fracture filling.</p>	<p>Trace pyrite.</p> <p>Trace pyrite.</p> <p>Trace pyrite.</p> <p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 6

Project No. 160

Hole No. GL-92-66

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>209.8-297.1 MAFIC VOLCANIC</p>	<p><u>209.8-210.6</u> Foliated at 60° to c.a. Fine laminations of quartz ± calcite and brownish sericitic to greenish chloritic volcanics. Somewhat brecciated appearance.</p> <p><u>210.6-215.9</u> Light greyish brown to darker greenish grey. Foliated to massive. Few whitish quartz blebs 2-3% whitish knots of ankerite.</p> <p><u>215.9-217.0</u> Brecciated-marbled with ankerite ± quartz to 10-15%.</p> <p><u>217.0-221.0</u> Becoming darker green-more chloritic, 5-8% quartz-calcite blebs/marbling foliated at 60° to core axis.</p>	<p>Quartz-calcite weak to moderate sericite, moderate chlorite.</p> <p>Definite decrease in quartz ± calcite veining marbling compared to ultramafic above. Moderate to strong ankerite alteration of volcanics (ankerite stain). Weak to moderate sericite as fine brownish-buff streaks.</p> <p>Weak to moderate fuchsite/sericite alteration. Weak to moderate silicification moderate ankerite alteration.</p> <p>Stronger ankerite alteration. Moderate quartz/calcite.</p>	<p>209.8-209.9 At contact 5-10% pyrite. finely disseminated along laminations and as coarser blebs and cubes to .8mm.</p> <p>Trace to <1% disseminated pyrite.</p> <p>Trace pyrite.</p>	<p>Possible magnesium tholeiite.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. _____ OF _____

Project No. _____ Hole No. 4 6

Property 160 GL-92-66

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Glimmer Mineralization	Remarks
	<p>221.0-244.5 Medium green, aphanitic, massive to foliated at 60° to c.a. Generally featureless, uniform, homogeneous appearance.</p> <p>244.5-297.1 Buff-brown pillowed mafic volcanics with intermittent, grey strongly ankeritic breccia zones. Buff coloured volcanics are aphanitic with darker brown, narrow pillow selvages in places. Grey breccia zones contains fragments of buff brown mafics and knots and fragments of whitish to grey ankerite and 2-3% quartz filling fractures. Narrow wisps of sericite with occasional fuchsite flecks occur in places.</p> <p>244.0-256.0: Principally pillowed mafic volcanic, with narrow 10-15cm intervals in places of grey ankerite alteration and breccia with narrow mm scale quartz veinlets. Moderately foliated at 60° to c.a.</p> <p>256.0-267.0: 80-90% grey ankerite ± quartz breccia zone with 10-20% fragments of buff mafic volcanic. Moderate foliation at 55-60° to core axis. Elongate fragments and 'seams' of mafic volcanic characterize foliation.</p> <p>260.1-260.5: White quartz vein subparallel to c.a.</p>	<p>1-2% fine veinlets or fragments of quartz and/or calcite. Generally 1-2mm, up to 3-4cm.</p> <p>Strong ankerite with weak to moderate sericite alteration. Minor silicification locally. Leucoxene noted from 285-295.</p> <p>Strong ankerite, weak to moderate sericite. Few specks/flecks of fuchsite.</p> <p>Strong silicification and ankerite alteration. Mafic fragments are altered as at 244.5-256.0.</p>	<p>Spotted with pyrite in places <1%.</p> <p>233.4-233.9 3 to 5% pyrite in fractures/partings concordant to foliation over 10cm intervals. Local concentrations of disseminated pyrite pyrite to 5-8% over 10 to 20cm intervals in places. Generally trace to <1% pyrite spotting core.</p> <p>Trace pyrite generally, local accumulations along narrow greyish quartz veinlets.</p> <p>Local concentrations at disseminated pyrite to 2 or 3%. Generally minor pyrite.</p>	<p>Grey breccia zones are likely fault breccia zones.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 6

Project No. 160 Hole No. GL-92-66

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p>267.0-276.5: Mafic (pillowed) as at 244.5-256.0.</p> <p>276.0-276.7: Trace fuchsite with sericite.</p> <p>276.9-278.5: Grey ankerite and silicified breccia zone as of 256.0-267.0.</p> <p>278.5-295.5: Mafic volcanic-greyer in colour, more massive in appearance. Intermittent grey ankerite breccia over 2 to 10cm intervals in places. Narrow 2-3cm ankerite ± quartz intervals appear hyaloclastitic in places and may be pillow selvages-difficult to tell. Spotted with fine leucoxene to 3-5% over entire interval. Foliated sericitic intervals in places. 2-3% narrow (<1 to 5cm) white to greyish quartz ± ankerite veinlets at 20-40° to c.a.</p> <p>286.8-287.5: Grey ankerite breccia.</p> <p>295.5-297.1: Well foliated with fine laminations of sericitic volcanic and grey mottled ankerite ± quartz. Foliated at 60° to core axis up to and at contact with sediments.</p>	<p>Ankerite/sericite.</p> <p>Silicified-ankerite -moderate sericite. Minor local fuchsite.</p> <p>Strong ankerite, minor sericite, minor chlorite, leucoxene.</p>	<p>2% disseminated pyrite.</p> <p>Minor pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 6 OF 6

Project No. 160 Hole No. GL-92-66

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>297.1-353.0 BANDED SEDIMENTS (GREYWACKE/ ARGILLITE)</p>	<p>Light to dark grey, fine to moderate laminations of black to dark grey argillite and lighter grey siltstone/greywacke. Negligible quartz ± ankerite veining. Narrow concordant laminations of mottled grey ankerite to 10cm maximum width. Foliation/bedding 55-58° to c.a.</p> <p><u>297.1</u> Sharp contact with mafic volcanics.</p>	<p>Moderate to strong ankerite alteration of sediments. Black argillite is carbonaceous/graphitic in places.</p>	<p>Generally minor pyrite with intermittent zones of up to 2-3% over .5m Coarse cubes to 1-2cm spot core in places.</p>	
<p>353.0</p>	<p>END OF HOLE</p>			

LATITUDE 1655E

DEPARTURE 1470N

ELEVATION 0

DIP AT COLLAR -50° BEARING 010°

TOTAL DEPTH 164m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage-Timmins

REMARKS Capped, casing left in hole.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
<u>30m</u>	<u>47°</u>	<u>040°</u>	
<u>90m</u>	<u>49°</u>		
<u>150m</u>	<u>49°</u>		

Sheet No. 1 OF 4
GL-92-67

Project No. 160 Hole No. _____

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. 1048334

Date started Sept. 17, 1992 completed Sept. 19, 1992

Contractor Norex Drilling

Logged by J. Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<u>0.0-14.0</u>	<u>Overburden</u>			
<u>14.0-17.5</u> ULTRAMAFIC VOLCANIC	<u>Dark greenish grey, massive, aphanitic -soft, talcose-rubble, chloritic fracture surfaces.</u>	<u>Talc-chlorite alteration.</u>		
<u>17.5-60.1</u> DIABASE	<u>Grey, fine to medium grained, massive, chloritic fracture surfaces. Magnetic</u> <u>60.1 Sharp contact with ultramafic volcanic at 80° to c.a.</u>			
<u>60.1-79.0</u> ULTRAMAFIC VOLCANIC	<u>Dark grey-black, massive, soft, talcose, marbled with 5-10% whitish-calcite ± talc. In places healing ultramafic volcanic fragments. Spotted with calcite porphyroblasts to 10% and up to 1mm in size.</u>	<u>Strong talc-chlorite moderate to strong carbonate (calcite) alteration.</u>	<u>Trace pyrite.</u>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 4

Project No. 160 Hole No. GL-92-67

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>79.0-96.1 MAFIC VOLCANIC</p>	<p>Medium grey to pale brownish green, aphanitic to amygdaloidal, pillowed. Pillow selvages are black, carbonaceous to graphitic. Graphitic/carbonaceous fractures in places. 2-3% white quartz ± calcite veinlets generally at shallow angles 15-45° to c.a.</p> <p><u>79.0</u> Contact foliated over 20cm at 45-60° to core axis.</p> <p><u>80.0-80.2</u> Fine breccia (fault breccia?)</p> <p><u>81.0-92.0</u> Greyer colour, carbon fracturing/graphite is more prominent over this interval.</p> <p><u>83.0-83.4</u> Quartz-calcite veining (to 3cm wide) with vein breccia fragments subparallel to core axis.</p> <p><u>88.0-92.0</u> Carbon/graphite notable as pillow selvages.</p> <p><u>92.0-96.1</u> Lighter buff-brown colour to core-locally amygdaloidal.</p>	<p>Carbon-graphite alteration of selvages/fractures. Weak to moderate calcite alteration of mafic volcanic in places.</p> <p>Weak carbonate as laminations at contact.</p> <p>Weak to moderate ankerite alteration. Carbon fracturing.</p> <p>Ankerite.</p>	<p>Intermittent 10-20cm intervals of scattered pyrite cubes and masses. Fine breccia (flow breccia?) noted where pyritic.</p> <p>3-5% medium to coarse cubic pyrite spots core over 20cm interval at mafic volcanics at contact.</p> <p><u>80.0-80.2</u> 5% scattered medium to coarse pyrite.</p> <p><u>85.8-86.0</u> 5% scattered medium to coarse pyrite cubes, masses.</p> <p><u>95.3-96.1</u> 2-3% disseminated medium grained pyrite.</p> <p>No visible mineralization.</p>	
<p>96.1-96.9 QUARTZ-ANKERITE VEIN</p>	<p>White quartz vein with 20% volcanic breccia fragments and grey mottled ankerite.</p>			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 4

Project No. 160 Hole No. GL-92-67

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>96.9-145.9 ULTRAMAFIC VOLCANIC</p>	<p><u>96.9-127.0</u> Yellowish-brown (honey coloured), massive-aphanitic to medium grained. Marbled with 10 to 15% grey ankerite veining. In places, spotted with greyish ankerite porphyroblasts to 1-2mm in size. Negligible quartz veining. Not magnetic.</p> <p><u>122.2-127.0</u> Brecciated appearance, fragments healed with ankerite.</p> <p><u>122.2-123.0</u>: Strongly foliated, aligned breccia fragments at 55 to 70° to c.a.</p> <p><u>127.0-130.6</u> Massive, aphanitic. Negligible ankerite marbling. 1-2% calcitic fractures - more brittle in appearance.</p> <p><u>130.6-145.9</u> Ultramafic is becoming darker in colour from grey to black. Marbled with 10 to 15% grey to whitish calcite ± talc. Brecciated and foliated 143.5 to 145.9. Foliation is at 45 to 55° to c.a. Strongly magnetic.</p> <p><u>145.9</u>: Contact with diabase dyke is sharp at 20° to c.a.</p>	<p>Strong ankerite plus weak to moderate talc/serpentine. Possibly minor sericite contributing to honey colour.</p> <p><u>127.0-130.0</u> Ankerite alteration.</p> <p><u>130.0</u> Calcite is now prevalent carbonate alteration.</p> <p>Marbling is calcite ± talc.</p>	<p>Trace pyrite.</p> <p>No visible mineralization.</p> <p>No visible mineralization.</p> <p>No visible mineralization.</p>	<p>Similar alteration in appearance to that seen in hole GL-91-60.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 4

Project No. 160 Hole No. GL-92-67

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
145.9-164.0 DIABASE	Grey, fine grained at contact, medium grained generally. Strongly magnetic. Epidote veinlets in places.			
164.0	END OF HOLE			

LATITUDE L1700E

DEPARTURE 1400N

ELEVATION 0

DIP AT COLLAR -50° BEARING 040°

TOTAL DEPTH 254m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage-Timmins

REMARKS Casing left in hole.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
ACID TESTS			
<u>30m</u>	<u>-49°</u>		
<u>90m</u>	<u>-48°</u>		
<u>150m</u>	<u>-48°</u>		
<u>210m</u>	<u>-47°</u>		

Sheet No. 1 OF 4

Project No. 160 Hole No. GL-92-68

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. 1048334

Date started Sept. 19, 1992 completed Sept. 23, 1992

Contractor Norex Drilling

Logged by J. Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-38.0 OVERBURDEN				
38.0-57.5 ULTRAMAFIC VOLCANIC	<p>Black to greenish grey, massive to foliated, soft-talcosse. Generally fractured and broken into intervals less than 20cm. Rubble zones in places -brecciated in places. Marbled with 3-5% greyish-white calcite ± talc.</p> <p><u>38.0-44.0</u> Moderately broken, brecciated, black, magnetic.</p> <p><u>44.0-44.4</u> Breccia and fault gouge at 60-65° to c.a.</p> <p><u>44.4-54.0</u> Greyish green colour not magnetic.</p> <p><u>47.5-53.6:</u> Breccia and rubble, in places crushed.</p> <p><u>54.0-57.5</u> Relatively black, massive, intermittent rubble, 1-2% calcite/ talc veining/marbling. Magnetic.</p> <p><u>57.5</u> Rubble at contact with diabase.</p>	<p>Talc-chlorite alteration weak to moderate calcite alteration as veinlets and fracture filling.</p>		

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 4

Project No. 160 Hole No. GL-92-68

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>57.5-109.9 DIABASE</p>	<p>Greenish grey, massive fine to medium grained, minor calcite veining. Chlorite and/or epidote along fractures in places -magnetic.</p> <p><u>57.5-78.0</u> Relatively fractured, broken into fragments up to 20-25cm. Chloritic/epidote fracture surfaces.</p> <p><u>109.9</u> Contact angle 58° to c.a. Sharp contact.</p>	<p>Moderate calcite weak to moderate epidote, weak calcite.</p>		
<p>109.9-155.8 ULTRAFIC VOLCANIC</p>	<p><u>109.9-150.6</u> Dark grey to black, massive to foliated, polysutured appearance in places, soft, magnetic intervals to about 119m. 3-4% calcite-chloritic ± talc marbling and fracture filling. Calcite porphyroblast to 5-10% in places.</p> <p><u>134.4-134.8</u>: Fault gouge, foliated at 55° to c.a., gravel rubble.</p> <p><u>136.9-139.0</u>: Fault gouge, rubble, fractured and foliated at.</p> <p><u>150.6-155.8</u> Becoming lighter in colour, olive green to yellowish brown-honey coloured alteration. Marbled with 5-15% grey ankerite ± quartz veining, marbling.</p>	<p>Strong talc-chlorite alteration-moderate calcite as noted.</p> <p><u>139.0-155.8</u> White carbonate (± talc) marbling is principally ankerite.</p> <p>Strong ankerite alteration talc ± sericite may be lending greenish-yellow (honey coloured) to core.</p>	<p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 4

Project No. 160 Hole No. GL-92-68

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>155.8-161.0 MAFIC VOLCANIC?</p>	<p><u>151.0-152.0</u> Narrow white quartz veins, 3-4cm wide at 20-25° to c.a.</p> <p><u>154.0-156.0</u> Narrow quartz veins-an echelon at 15-20° to core axis (5-10%).</p> <p><u>155.8-161.0</u> Harder, pale grey colour-massive, intermittent white quartz veins to 40cm with 5-10% vein breccia fragments. Pyritic, white quartz veins and dark greenish black (possibly tourmaline) veinlets cut earlier grey quartz veins filling tension gashes.</p> <p>Grey carbonate in places is suggestive of pillow selvages.</p>	<p>Strong ankerite alteration.</p> <p>Strong ankerite-weak to moderate silicification.</p>	<p>Trace pyrite in ultramafic host rock.</p> <p>3-5% disseminated pyrite, fine grained and coarser masses, blebs. Also concentrated along chloritic fractures.</p> <p>3-5% pyrite as noted above. White quartz veins are virtually devoid of mineralization. Trace chalcopyrite.</p>	<p><u>155.8-161.0</u> Light colour and hardness is suggestive of mafic volcanic.</p> <p><u>155.8-161.0</u> Continued, no clearly visible contacts are evident however.</p>
<p>161.0-188.4 ULTRAMAFIC VOLCANIC</p>	<p><u>161.0-166.1</u> As described 150.6-155.8.</p> <p><u>166.1-167.0</u> Moderate green carbonate alteration-5-8% pyritic ankerite-quartz marbling.</p> <p><u>166.2:</u> White ankerite-quartz marbling is foliated at 45-55° to core axis.</p> <p><u>181.0-188.4</u> Becoming darker grey colour-3-5% marbling with grey ankerite.</p> <p><u>185.0-185.2:</u> Rubble.</p>	<p><u>166.0-167.0</u> Moderate green carbonate.</p> <p><u>167.0-181.0</u> Honey coloured ankerite alteration.</p> <p>Strong talc-chlorite weaker ankerite alteration to about 182.0m.</p>	<p>Trace pyrite.</p> <p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 4
Hole No. GL-92-68

Project No. 160
Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
188.4-193.3 DIABASE?	Dark grey-black, fine grained to aphanitic, massive, 2-3% narrow (mm to 2cm) white calcite veinlets, fracture filling. Not magnetic. <u>188.4</u> Upper contact relatively sharp at 40° to core axis. <u>193.3</u> Broken core at contact.	Weak calcite, weak epidote with calcite in fractures.	No visible mineralization.	Aphanitic-massive mafic volcanic?
193.3-202.8 ULTRAMAFIC VOLCANIC	Black, aphanitic massive, strongly magnetic. Marbled with 5-8% grey to yellowish grey. Calcite ± talc. Minor ankerite in places.	Strong chlorite-talc alteration-moderate to strong calcite alteration.	Trace pyrite.	
202.8-245.3 DIABASE	Medium grey to greenish grey, massive, fine grained to medium grained. Moderate to strongly magnetic where medium grained. Not magnetic near contacts where finer grained. Calcite and epidote in fractures at 5 to 30° to core axis.			
245.3-254.0 ULTRAMAFIC VOLCANICS	Black, aphanitic, massive-strongly magnetic. Marbled and veined with 8-10% calcite ± talc/chlorite. Minor epidote at contact. <u>245.3</u> Broken at contact, 60° to c.a. <u>247.0-249.0</u> Strong brecciation.	Chlorite alteration, weak to moderate talc/serpentine.	Trace pyrite.	
254.0	END OF HOLE			

LATITUDE 800N

DEPARTURE L1050E

ELEVATION 0

DIP AT COLLAR -71° BEARING 040

TOTAL DEPTH 539m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage - Timmins

REMARKS Capped - Casing left in hole

NORANDA EXPLORATION COMPANY LIMITED

DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
60	-70		
120	-71		
180	-71		
240	-71		
300	-70		
360	-69		
420	-68		
480	-67		
539	-66		

Sheet No. 1 OF 7

Project No. 160 Hole No. GL92-69

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax Pa

Date started September 24/92 completed October 4/92

Contractor Norex Drilling

Logged by J. Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-36.0 CASING				
36.0-238.9 ULTRAMAFIC VOLCANIC	<p>Black, aphanitic to fine grained, massive, polysutured appearance in places, selvages are principally chloritic ± calcite. Strongly fractured brecciated and broken. Relatively non-competent, breaking along chloritic fractures at intervals less than 40cm. Numerous intermittent rubble zones. Fractures vary from irregular intervals to regular at 20-25° and 50-55° to core axis. Pillowed? appearance in places. Pillow selvages are chloritic and calcitic.</p> <p><u>192.5</u> Becoming more competent, less broken and blocky. Fracturing and brecciation persists-healed with chlorite.</p> <p><u>226.0</u> Fractures and breccia fragments healed with calcite and serpentine. Approximately 5-7% white calcite, 2-3% serpentine in fractures.</p>	<p>Relatively unaltered. Strong chlorite along fractures and healing breccia zones. Weak talc alteration in places.</p> <p>Moderate to strong chlorite. Weak to moderate serpentinization.</p> <p>Weaker chlorite alteration. Moderate calcite and serpentine noted.</p>	<p>No visible mineralization.</p> <p>No visible mineralization.</p> <p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 7

Project No. 160

Hole No. GL-92-69

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>238.9-242.0 PILLOWED AMYGDALOIDAL MAFIC VOLCANIC</p>	<p>Dark green talc chlorite altered ultramafic continues to contact at 238.9. Calcite ± talc fracture filling and healing of cm scale breccia fragments-not magnetic within 2-3 metres of contact. Foliation characterized by calcite-talc fractures and alignment of breccia fragments at 50-55° to core axis.</p> <p>Pale green to greyish green, aphanitic, dark green chlorite/talc/calcite pillow selvages. 1-2mm scale chloritic amygdules rim pillow selvages. 1-2% white quartz ± calcite veinlets to 8mm.</p> <p>238.9 Quartz veining over 4cm at contact at 50° to c.a.</p>	<p>Strong chlorite-talc moderate calcite as noted.</p> <p>Chloritic pillow selvages.</p>	<p>Trace pyrite.</p>	
<p>242.0-247.4 ULTRAMAFIC VOLCANIC</p>	<p>Dark green talc-chlorite altered to medium olive green chlorite ± sericite alteration.</p> <p>242.0-242.5 50-60% quartz veining with foliated vein breccia at 35-45° to c.a.</p> <p>244.7-247.4 Darker green, very soft, marbled and veined with 35-45% white calcite/talc. Variable foliation at 25° to subparallel to c.a.</p>	<p>Silicified, moderate to strong chlorite, calcite veinlets.</p> <p>Strong talc-chlorite -calcite.</p>	<p>242.0-242.5 3-4% very fine to medium grained pyrite disseminated in vein breccia and fractures.</p> <p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-69

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>247.4-281.4 PILLOWED MAFIC VOLCANIC</p>	<p>Generally medium green, aphanitic, pillowed. Fine chloritic amygdules to 2mm noted along pillow selvages in places. 5-8% white quartz ± calcite veinlets to 4-5cm wide (generally <1 to 1cm) at various angles from 5° to 55° to core axis.</p> <p><u>247.4</u> Contact obscured by quartz talc-calcite veining, foliated at 30° to c.a.</p> <p><u>247.4-254.5</u> Medium to dark green, intermittent brecciated intervals, massive to foliated at 45° to core axis. 8-10% quartz-calcite veining as fine mm-cm scale veinlets, marbling and discontinuous knots and blebs.</p> <p><u>254.5</u> Sharp break at 35° between brecciated volcanic and massive competent volcanic. Possible fault margin.</p> <p><u>254.5-280.0</u> As general description.</p> <p><u>280.0-281.4</u> Strongly chloritic, talcose fault breccia intensely foliated.</p>	<p>Chlorite-weak silicification (as veining) and calcite alteration.</p>	<p>Local concentrations of pyrite associated with quartz veining (as halos) and along pillow selvages. <1% disseminated pyrite.</p> <p><u>247.4</u> 5-8% very fine dusty pyrite over 10cm interval at contact.</p> <p>Local concentrations of fine disseminated pyrite to 5-8% over narrow intervals in breccia fragments and as halos around quartz veinlets. Pyrite is principally in wallrock, minor pyrite in veins.</p> <p><u>251.0-252.0</u> Concentrations of fine pyrite averaging 3-5% over interval.</p> <p><u>278.5-279.0</u> Fine disseminated pyrite in patches to 3-5%.</p>	

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Project No. 160

Hole No. GL-92-69

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>281.4-317.7 ULTRAMAFIC VOLCANIC</p>	<p>Black, aphanitic to fine grained, soft, magnetite, local spinifex with lathes to 2cm long.</p> <p><u>281.4-292.8</u> Strongly foliated, brecciated fault zone. Angular to ovoid subangular breccia fragment up to several cm in size. Fine breccia in places. Foliation angles to core axis.</p> <p>285.0-45°, 287.5-50°, 290.0-50°, 292.0-55°</p> <p><u>292.8-317.7</u> Brecciation continues but not intensely foliated as above interval. Fragments healed with calcite and/or chlorite. Rubble over narrow intervals intermittently.</p> <p>299.3-299.5: Spinifex texture.</p> <p>317.3-317.7: Ultramafic is strongly foliated at contact (probable fault contact) at 40° to c.a.</p>	<p>Strong talc-chlorite -weak calcite as fracture filling and healing breccia fragments.</p> <p>Strong talc-chlorite (chlorite prominent).</p>	<p>Trace pyrite.</p>	
<p>317.7-381.9 PILLOWED MAFIC</p>	<p>Pale to medium green, aphanitic, chloritic pillow selvages ± calcite, amygdaloidal along pillow selvages in places. Amygdules are generally <1 to 1mm and chloritic. 8± cooling fractures, discontinuous within mafic flow, generally healed with chlorite ± calcite ± quartz.</p> <p><u>371.0-381.9</u> Intermittent, white to orange white, irregular, calcite veining, marbling -chloritic/calcitic fractures.</p>	<p>Chlorite/weak calcite.</p> <p>Chlorite-calcite.</p>	<p>Minor pyrite along fractures and generally associated with pillow selvages.</p> <p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160 Hole No. GL-92-69

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>381.9-383.8 FAULT BRECCIA</p>	<p>Chloritic-calcitic, aphanitic-pronounced foliation at 25 to 55° to c.a. Angular, elongate breccia fragments in places. Soft, talcose. 5-8% patchy blebs, streaks and fracture filling calcite/ankerite ± quartz.</p> <p>381.9: Contact at 45° to c.a.</p> <p>383.8: Strong foliation at 40° to c.a.</p>	<p>Chlorite-talc-calcite/ankerite.</p>	<p>1½ fine to medium pyrite over narrow intervals.</p>	
<p>383.8-423.1 ULTRAMAFIC VOLCANIC</p>	<p>Dark green to green grey to light grey, massive to foliated. Variable hardness-grey carbonate rich intervals are harder, green-more talcose-chloritic intervals are softer and generally magnetic.</p> <p>Light grey to pale green intervals are generally talc/serpentine-carbonate (ankerite) altered. These intervals show mottled spotted texture in places due to ankerite porphyroblasts to ~50%.</p> <p>387.0: Foliation at 50° to c.a.</p> <p><u>390.5-391.3</u> Chloritic rubble.</p> <p>391.7: Foliation at 50° to c.a.</p> <p><u>402.5-409.8</u> Grey talc-serpentine-ankerite interval.</p>	<p>Talc-chlorite-ankerite to talc-ankerite.</p> <p>Talc-ankerite strong prominent ankerite.</p>	<p>384.7-386.8 Veined narrow chloritic intervals with concentrations to 5% of fine to medium pyrite.</p> <p>Trace, fine pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160 Hole No. GL-92-69

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>423.1-433.0 FELDSPAR PORPHYRY/ ULTRAMAFIC VOLCANIC</p>	<p><u>417.0</u> Variable foliation 40° to subparallel to c.a.</p> <p>Feldspar porphyry is hard, silicified, with grey to yellowish brown indistinct to distinct anhedral white feldspar phenocrysts to 3 to 4mm in size. Intensely fractured and brecciated fractures healed primarily with chlorite. Approximately 20-30% chlorite. Broken with rubble yellowish brown colour in places possibly due to sericite. Ultramafic volcanic is dark green, chloritic to pale greenish grey talcose. Strongly foliated subparallel to 20° to c.a.</p>	<p>Strong talc-moderate ankerite veining.</p> <p>Strong chlorite as fracture filling and healing fragments. Ultramafic volcanic is very talcose with ankerite ± white quartz blebs and fragments.</p>	<p><u>421.5-423.1</u> 2-3% very fine disseminated pyrite with patchy concentrations (421.5-421.9) up to 8-10% very fine masses.</p> <p>Approximately 5% fine to medium grained disseminated pyrite and local pyritic masses to 2-3cm scale. Pyrite occurs in chlorite and porphyry groundmass of porphyry. 3-4% fine to coarse anhedral to euhedral pyrite within ultramafic intervals. <1 to 1% disseminated chalcopyrite, minor galena.</p> <p><u>423.1</u> Isolated patch of radiating millerite crystals along fracture surface.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. _____

Glimmer

Property _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>433.0-448.1 ULTRAMAFIC VOLCANIC</p>	<p>Dark green. Strong foliation throughout characterized by marbling and veining of carbonate and ultramafic-up to 20% ankerite as marbling and fragments lighter grey, more mottled-marbled intervals are more ankeritic-less chlorite ± talc.</p> <p><u>433.0</u> Contact foliated at 50° to c.a., broken.</p> <p><u>433.8-434.0</u> Fault gouge-silt to gravel size fragments-foliated at 45° to c.a.</p> <p><u>438.6-438.8</u> Narrow quartz-ankerite vein with broken contacts-fault gouge over 4cm at 438.8.</p> <p>Foliation angles to core axis: 438.4-45°, 439.7-60°, 443.0-65°, 447.5-35°, 448.1-20° to 30°.</p>	<p>Strong talc-chlorite -ankerite and ankerite-talc/serpentine.</p> <p>Strong chlorite-talc. Strong to moderate ankerite ± quartz as marbling and fragments or discontinuous blebs.</p>	<p>Generally <1% to 1% fine to coarse euhedral pyrite.</p> <p><1%-very fine pyrite in fault.</p>	
<p>448.1-477.2 MAFIC VOLCANIC</p>	<p>Dark green, massive to foliated, aphanitic, white carbonate ± quartz veining concordant to foliation and veins discordant to foliation, generally subparallel to 20° to c.a.</p> <p>451.0-48°, 454.0-50°, 462.5-72°, 468.5-53°, 476.0-47°, 477.2-45°.</p>	<p>Chlorite weak to moderate silicification (as veining). Carbonate is principally ankerite to 449.0m. Below 449m generally calcite.</p>		
<p>477.2-539.0 ULTRAMAFIC VOLCANIC</p>	<p>Dark grey-black.</p>	<p>Chlorite-talc altered.</p>		
<p>539.0</p>	<p>END OF HOLE</p>			

LATITUDE 900N

DEPARTURE L1500E

ELEVATION _____

DIP AT COLLAR -74° BEARING 040°

TOTAL DEPTH 521.0m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage Timmins

REMARKS Casing left in hole, capped

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
30	-74°		
90	-73°		
150	-71°		
210	-71°		
270	-71°		
330	-71°		
330	-71°		
390	-69°		
450	-65°		

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Project No. 160 Hole No. GL92-70

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax P

Date started October 2, 1992 completed October 16, 1992

Contractor Norex Drilling

Logged by Jim Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-9.5 OVERBURDEN				
9.5-103.3 ULTRAMAFIC VOLCANIC	<p>Black, aphanitic, massive to moderately hard to soft, variably magnetic. Polysutured appearance in places with chlorite along selvages. In places whitish green talcose fracture fillings. Intermittent brecciation and rubble over intervals up to 1 metre.</p> <p><u>14.0-15.6</u> Diabase in grey black-massive.</p> <p><u>66.2-66.6</u> Spinifex texture.</p> <p><u>79.1-81.0</u> Fault gouge, breccia and rubble. Foliated 45° to core axis.</p> <p><u>81.0-103.3</u> Breccia zone. Intermittent massive-polysutured intervals. Breccia fragments are subrounded to angular, aligned in places characterizing foliation. In places-not foliated.</p> <p><u>102.6-102.9</u>: Pyritic breccia.</p> <p><u>103.3</u> Contact-relatively sharp at 70° to core axis.</p>	<p>Chloritic, weakly to talcose. 2-3% calcite-talc fracture filling.</p> <p>Chlorite-talc-weak calcite.</p> <p>Chlorite-talc.</p>	<p>Trace pyrite, trace chalcopyrite within talc-calcite veinlets, and fracture filling.</p> <p>Trace pyrite.</p> <p><u>102.6-102.9</u> 5-8% fine dusty pyrite over narrow interval.</p>	<p>Fault breccia.</p>

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DIAMOND DRILL CORE LOG

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Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>103.3-224.2 MAFIC VOLCANIC</p>	<p>Medium to dark green, aphanitic, pillowed, amygdaloidal. Pillow selvages are chloritic ± calcite ± epidote, hyaloclastic pillow selvages in places. Amygdules are generally 1-3mm, irregular in shape and generally chlorite filled. 1% white quartz and/or calcite veining.</p> <p><u>175.0-176.0</u> Broken core, rubble, foliation 60-70° to c.a.</p> <p><u>177.1</u> Contact with massive flow. Aphanitic to fine grained. Chlorite-calcite-quartz filling fractures to about 1-2%.</p> <p><u>85.0-195.0</u> Spotted with 1-2% fine white, pasty, leucoxene.</p> <p><u>205.0-224.2</u> Pillowed, amygdaloidal.</p> <p><u>223.8-224.0</u>: Fault gouge, foliated at 30° to core axis.</p>	<p>Weak to moderate chlorite alteration, weak epidote. Minor quartz and/or calcite healing fractures.</p> <p>Leucoxenitic</p>	<p>Minor pyrite along pillow selvages (~1%). Trace euhedral pyrite spotting core in places.</p> <p>Minor pyrite along quartz-calcite fractures/veinlets in places.</p>	
<p>224.2-238.9 BASALTIC TO ULTRAMAFIC KOMATIITIC FLOW</p>	<p>Dark green to black, aphanitic, massive -magnetic. Brecciated appearance-angular irregular shaped fragments healed with chlorite. Brecciation appears as auto-breccia or cooling phenomenon rather than fault feature.</p> <p><u>224.3</u> Contact at 40° to core axis.</p> <p><u>238.9</u> Contact shaped at 20° to core axis.</p>	<p>Weakly serpentized, 2-3% calcite filled fractures.</p>	<p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>238.9-316.7 PILLOWED MAFIC VOLCANIC</p>	<p>Pale to medium green aphanitic-as noted 103.3-177.0. Chlorite and calcite filling fractures.</p> <p><u>239.8-240.5</u> Broken and rubble - along fracture planes. Possible fault.</p> <p><u>313.8-314.5</u> Grey, aphanitic, siliceous dyke, (felsite) 1-2% quartz+calcite+epidote filled fractures.</p> <p>313.8: Contact at 70° to c.a.</p> <p>314.5: Contact at 75° to c.a.-irregular contact surface.</p>	<p>Chlorite+quartz+ weak calcite ± epi- dote as fracture filling-3-4%.</p>	<p>Trace pyrite.</p> <p>Spotted with 1-2%.</p>	
<p>316.7-342.2 MASSIVE MAFIC FLOW</p>	<p>Medium to dark green. Aphanitic to medium grained, massive. Feldspar lathes lend yellowish hue to core. 4-5% chlorite filling fractures - weak to moderate epidote alteration. Quartz+epidote+calcite veinlets to 10cm, generally <3cm, cut core in places.</p> <p><u>316.7</u> Contact at 30° to c.a.</p> <p><u>340.0-342.2</u> Leucoxene to 1-2%.</p> <p><u>342.2</u> Contact at 60° to c.a.</p>	<p>Chlorite, weak to moderate epidote, weak calcite along fracture, vugs, and veinlets.</p>	<p>Trace pyrite as anhedral crystals spotting core.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>342.2-360.5 PILLOWED MAFIC FLOW</p>	<p>Lighter green to medium green, aphanitic, pillow selvages are indistinct-vague in places. Shattered-brecciated appearance. Angular fragments vary in size and shape are healed with dark green chlorite with lesser calcite, (2-3%) and/or quartz. Weak fabric (foliation) in places.</p> <p><u>351.3-352.0</u> Fault gouge with narrow broken quartz-calcite knots, veins. Foliation at 15° to core axis.</p>	<p>Chlorite, weak calcite.</p>	<p>Trace pyrite.</p>	
<p>360.6-384.5 ULTRAMAFIC VOLCANIC</p>	<p>Black, aphanitic to fine grained, massive to foliated in places. Soft, strongly magnetic. Approximately 10% mm to cm scale calcite-talc veining and marbling of core. Brecciated, fragmental appearance in places, especially near contact. Fragments are healed with calcite ± talc ± minor quartz.</p> <p><u>360.6-360.7</u> Fault gouge-breaks at 55° and 65° to core axis. No strong fabric.</p> <p>Actual contact is obscure. Above mafics within 4 metres resemble basaltic komatiites as do ultramafics below suggested contact. Mafics above are not magnetic, ultramafics below are magnetic.</p>	<p>Weak to moderate talc-serpentine-chlorite alteration. Weak to moderate calcite carbonatization as noted.</p>	<p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

Sheet No. 5 OF 12

Project No. 160

Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>384.5-402.6 ULTRAMAFIC BRECCIA</p>	<p>Distinct, continuous coarse breccia interval. Massive, angular to subrounded crackle-type fragmentation. 5-15% white calcite-talc matrix material. No ankerite present except near arbitrary ankerite contact at 402.6m.</p> <p>@ 387.1: Narrow 5cm gouge 60° to c.a.</p> <p><u>392.0-393.0</u> Broken gouge, rubbly core. Breccia texture continues into ankerite zone.</p>	<p>Weak to moderate talc-serpentine alteration. Weak to moderate calcite carbonatization as matrix veins and patchy stringers.</p>	<p>Trace pyrite as small scattered grains up to 1mm size.</p>	
<p>402.6-416.0 ANKERITIC ULTRAMAFIC</p>	<p>Ultramafic becomes paler on cored surface and groundmass texture appear to coarsen. Veins and veinlets forming matrix to breccia are duller white due to ankeritic composition. Calcite is now absent from veins and as small grains in um groundmass. Occasional ptygmatic to linear 1cm vein of white quartz and ankerite-quartz from 408.7m. Presence may be due to development of more linear shear fabric which replaces or beings to overprint the breccia texture at about 408.5 metres.</p> <p><u>408.5-413.0</u> 60° shear fabric overprints breccia. Linear veins and foliated textures develop in the ultramafic. Breccia texture is still however readily discernable.</p>	<p>Ankerite veinlets and fine development in groundmass of UM. 5-10% vein material as breccia matrix.</p> <p><u>408.7-416.0</u> Scattered white quartz and ankerite-quartz veinlets of 1-2cm width. Attitudes variable but often about 60°.</p>	<p>Small increase to 1-3% scattered pyrite. often clustered in 1-2cm area.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. _____

Glimmer

Property _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>416.0-432.1</p> <p>ANKERITE REPLACEMENT ZONE (ULTRAMAFIC BASALT?)</p>	<p>411.9-412.1: First isolated patch of ankeritized um.</p> <p>413.0-417.4 Zone of strong deformation. Strong, coarse foliated fabric at 80-90° to c.a. Some soft rubbly core and soft wet gouge. Patch of less crumpled rod-in central section for .7 metres. Note pale quartz-ankerite veining paralleling c.a. at 415.0 metres for .3m length.</p> <p>Pale grey, slight greenish cast, aphanitic to medium grained texture. Massive groundmass most common but crude, coarse fabric derived from coarse textural variations and remnant stress and fragmental structures predominate visually. Degree of replacement variable causing changes in shade of colour. Some dark flecks, patches of short sections. No prominent veining. Stay about the same as for preceding section-scattered narrow 1-2cm often clot-like. Estimate 1-2% overall. Most consistent core angles are about 60°.</p> <p>421.2-421.6 1cm wide ankerite vein running along core axis in wavy fashion. Some very fine pyrite noted at one point along margin in host groundmass. Overall appearance of this section is one of inhomogeneity due to various degrees of alteration. Unit is non-magnetic and very soft.</p>	<p>At 411.5 (approx.) the um is only sporadically magnetic- retains susceptibility in less altered/ sheared remnants.</p> <p>Ankerite replacement of um groundmass. Possibly with serpentine, silica and sericite. No readily identifiable amounts of fuchsite but faint tendency for development is there. Minor veining-ankerite and ankerite-quartz narrow, 1-2cm irregular.</p>	<p>Trace to 3% fine to medium pyrite.</p>	

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Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>432.1-438.6 ANKERITIC ULTRAMAFIC</p>	<p><u>425.4-431.0</u> 15% white, irregular quartz (+ankerite) vein material in sheared (ribbon textured) to brecciated green grey ankeritized ultramafic/basalt? Possibly that the bulk of this section is highly altered mafic volcanic-lacks talcose "feel" but has been so completely replaced difficult to tell original rock type. The altered material is not as soft as those sections better judged to have been ultramafic originally. Appearance however is that of usually more coarsely textured ultramafic.</p> <p><u>416.0-426.3</u> Ultramafic protolith.</p> <p><u>426.3-432.1</u> Basalt protolith?? Core angles over last meter (@ 431.5) which exhibit consistent angles over a meter or so are 55-60°. This strongly foliated/sheared section exhibits a augen-like fragmental pseudotexture.</p> <p>Lower contact indistinct.</p> <p>Grey-black, talcose, strongly foliated to sheared. 30% white ankerite as veinlets, augen, blebs etc. in plane of fabric.</p> <p><u>432.3-435.0</u> Strongest fabric.</p>	<p>Host is strongly foliated (ribbon texture) to brecciated.</p> <p><u>425.4-431.0</u> Heavy white quartz vein development 15% irregular marble quartz (+ankerite) veining, veins 2-3cm. Minor fine-grained pyrite trace to 1% at margins in host rock.</p> <p>Moderate to heavy ankerite vein emplacement.</p>	<p>Trace disseminated pyrite.</p>	<p><u>426.3-432.1</u> Is possibly due to chlorite content, a mafic volcanic interval! Coarse crystalline texture of ankerite ground-mass more suggestive of um protolith however.</p>

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Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>438.6-457.8</p> <p>MAFIC VOLCANIC</p>	<p><u>435.0-438.5</u> Moderately brecciated texture; more massive groundmass. Moderately magnetic throughout. Core angles in shear-foliated section about 60°.</p> <p>Differs in appearance from any previous um sections due to strong fabric and dense ankerite pattern. Pervasive fine-grained ankerite in groundmass giving "frosty" look to the um also unique. Only section close to this in appearance is some sections of um immediately above the ankerite replacement zone at 416.0m.</p> <p>Lower contact indistinct due to shearing and presence of several white quartz veins (2cm widths) parallel to shearing.</p> <p>Dark green, very fine grained, basalt. Strongly foliated near contacts. Groundmass in non-sheared central part is generally massive but with strong structural overprint producing overall structural fabric about 60° to c.a. Non magnetic unit.</p> <p><u>438.6-441.3</u> Strongly sheared section core angles 55°. Large quartz vein mass at 439.2-edge of vein subparallel to c.a.</p>	<p>438.6-441.0 Ankerite alteration as occasional veinlets along fabric, some cross-cutting. Estimate 3-4% total. Large edge of a quartz vein parallels core axis at 439.2m.</p> <p>441.0-457.8 Calcite veinlets, some quartz-calcite veins. Total 5% locally to nil in central pillowed section.</p>		<p>402.6-441.0 Limits of ankerite alteration envelope.</p>

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Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>457.8-471.7 ULTRAMAFIC VOLCANIC</p>	<p><u>441.3-444.3</u> More massive section.</p> <p><u>444.3-445.6</u> Core broken up, water seam area. Some strong foliation 60° to core axis.</p> <p><u>445.6-453.4</u> Suggestion of pillow selvages-dark chloritic bands. Moderate to strong, coarse fabric developed 60° to c.a. white groundmass is near massive.</p> <p><u>450.8-451.4</u>: Brecciated section crackle-type with coarse angular fragments. Matrix white quartz black chlorite, traces of hematite.</p> <p>Groundmass developing a foliation towards base of interval.</p> <p><u>453.4-457.8</u> Foliated to near banded section of basalt due to moderate shear stresses. Core angles continue to be about 60°. Slight increase in very narrow calcite and quartz-calcite stringers paralleling fabric.</p> <p>Lower contact indistinct but identifiable over narrow intervals.</p> <p>Black, fine to medium grained. Essentially massive textured groundmass. Minor, pale serpentized fractures and carbonate stringers. Moderate to strongly magnetic.</p>	<p>Hematite seams and coatings on fractures occur in places within the basalt unit.</p> <p>457.8-459.0 Calcite alteration as minor small veinlets.</p>		

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-70

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>471.7-487.8</p> <p>MASSIVE MEDIUM-GRAINED BASALT</p>	<p><u>465.4-471.7</u> Ultramafic become moderately foliated. 5-10% white carbonate veinlets accentuate core angle of 50-60°. Veins are mainly calcite with minor ankerite locally.</p> <p>Lower contact relatively sharp 80-90° but coarse, heavy quartz form 80% of the first 10cm of the basalt contact.</p> <p>Medium to light green colour and very massive in texture. Grain size coarse enough to easily identify feldspar crystals in groundmass with hand lens. Non-magnetic.</p> <p>Initial 15cm very chloritic and quartz vein-rich.</p> <p><u>479.5-487.8</u> Very coarse fragmentation of basalt-numerous dark fractures. Some local display of foliation due to shear stress but on the whole still massively textured.</p> <p>Central part (473.0-482.4) is more coarsely textured than margins-consider it flow centre. Lower contact somewhat vague.</p>	<p><u>459.0-465.4</u> Ankeritic veinlets of minimal width and minor amounts <1%.</p> <p><u>465.4-471.7</u> 5-10% calcite stringers and fine disseminations in plane of foliation (50-60°). Quartz minor to nil.</p> <p>Unaltered except for scattered, coarse quartz veins and veinlets up to 4cm in width. Spread throughout section ~2%.</p>	<p>Nil to trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 11 OF 12
Hole No. GL-92-70

Project No. 160
Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>487.5-488.8 KOMATIITIC BASALT</p>	<p>Dark blackish green colour. Fine grained, with strong schistose foliation 65° to c.a. Moderately soft. Serpentine bearing.</p> <p><u>488.0-488.4</u> Strongly magnetic section. Contacts indistinct.</p>	<p>Nil</p>	<p>Nil</p>	
<p>488.8-507.3 BANDED MAFIC VOLCANIC</p>	<p>Medium green, some blackish streaks and narrow laminae locally-possibly attenuated pillow selvages if protolith a flow otherwise strong banding may reflect bedded tuff. Banding probably due to strong stress of competent, massive mafic flow-possibly pillowed. Upper 3-4m may be mixed volcanogenic sediment-some chert.</p> <p><u>489.8</u> 10cm section of massive variolite development. 4-8mm coalescing, pale buff variolites.</p> <p><u>495.5-496.5</u> Coarse breccia filled with quartz, nil sulphides.</p> <p><u>502.6-502.8</u> Feldsparphyric, near porphyry-like section. Pinkish colour to some grains. Upper contact 60°, lower contact 50°.</p> <p>Core angles consistently 60-65°.</p> <p><u>504.9-507.3</u> 15% white quartz veining. Very heavy relative to background existing in rest of unit. Variable attitude-irregular, marble-like appearance. Host volcanic brecciated, very chloritic.</p>	<p>Very weak ankerite; local development of pale feldspar grains 1-3mm often forming narrow bands of coalescing grains over 490.5-491.5 interval.</p> <p>Quartz vein material in breccia opening.</p> <p>Epidote present in some veins of quartz following fabric.</p> <p>Heavy quartz+calcite veining ~15%, marble-like. Host volcanic is chlorite-rich.</p>	<p>2-3% pyrite occurring as fine grained band-like concentrations up to 1cm wide.</p> <p>Nil pyrite.</p> <p>Nil</p> <p>Nil to trace pyrite.</p>	

ALTITUDE 780N

DEPARTURE 1300E

ELEVATION _____

DIP AT COLLAR -69° BEARING 040°

TOTAL DEPTH 557m CORE SIZE NQ

ORE STORAGE Timmins

REMARKS Casing left in and capped

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 1 OF 14

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
60m	-66°		
120m	-66°		
180m	-64°		
240m	-64°		
300m	-63°		
360m	-63°		
420m	-62°		
480m	-62°		
540m	-61°		

Project No. 160 Hole No. GL-92-71

Property Glimmer

NTS 42A/9 TWP. Hislop Claim No. Truax Patents

Date started Oct. 17, 1992 completed Oct. 31, 1992

Contractor Norex Drilling Ltd.

Logged by Wayne Corstorphine, Jim Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-0.8	Casing			
0.8-42.5 MASSIVE BASALT	Medium green, massive fine to medium grained groundmass. Localized patches of tight, annealed brecciation-possibly flow top as at 14.9-15.7m. Occasional section of vesicular flow material. Pale leucoxene grains flecks core through major sections but occurrence is discontinuous.	Epidote weakly to moderate developed in fractures. Minor quartz vein material scattered through section-narrow irregular occurrences.	Nil to trace pyrite.	
42.5-96.8 PILLOWED BASALT	Distinct change as basalt becomes aphanitic. Colour variable from medium to light green. Good flow top breccia, good development of amygdules locally. Pillow structures present but evident only in isolated places eg.: @ 45.1: good pillow structure. @ 47.6: good pillow structure. @ 49.2: excellent pillow form with all altered interval structures. Basalt is non magnetic throughout. Very distinctive and uniform section. No core angles. Lower contact distinct, marked by 8cm of silicification/vein material 80-90° to c.a.	Rare white quartz vein-typically every 5 to 10m. Widths up to 3-4cm. No hydrothermal alteration effects.	Nil sulphides.	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>96.8-127.6 MASSIVE BASALT</p>	<p>Similar to 0.8-42.5m. Fine to medium grained, medium green, massive textured groundmass. Pale leucoxene crystals fleck core through most of section. Numerous (1-2%) black fissures and cracks lace the core. These are likely chlorite filled openings generated as a flow structure. Non magnetic. Several interval flow top breccia sections: eg. 115.2-115.6, 121.0-121.8.</p> <p>Breccias often paler green to buff green colour. No prominent core angles. Lower contact distinct.</p>	<p>Note minor hematite in narrow calcite veinlets. Calcite and calcite+quartz stringers constitute 1-2% of section, minor but everpresent.</p>	<p>Nil observed.</p>	
<p>127.6-144.1 PILLOWED BASALT</p>	<p>As 42.5-96.8m. Somewhat paler green much finer textured-aphanitic. Good flow structures-breccias, pillow selvages.</p> <p>Towards lower contact the basalt exhibits deformation features, more highly fractured, fabric development ~ 50° to c.a., breccia texture. Colour also changes to darker near blackish grey, similar to ultramafic but non magnetic and with still enough discernable basalt component. Lower contact defined by appearance of magnetite.</p>	<p>Normal calcite development, chiefly as fine stringer veinlets.</p> <p>Increased calcite stringers.</p>	<p>Nil observed.</p> <p>Nil</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>144.1-175.1 ULTRAMAFIC</p>	<p>Blackish with heavy calcite stringer development-sharp angular breccia and fracture filling rather than pygmatic marbling. Strong breccia texture to um. Fragments are crackle-type up to 10cm Groundmass is fine to medium grained and massive.</p> <p><u>158.1-158.5</u> Gouge zone.</p> <p><u>161.0-174.5</u> Coarse breccia, widely separated angular fragments matrixed by white-grey white serpentine-calcite veins up to 3cm in width. No preferred orientations but near lower contact 30-50°. UM is soft and magnetic.</p> <p><u>174.5-175.1</u> 50% pyritic carbonate (calcite/ankerite-coarse, crystalline) with minor quartz. Vein material continues into basalt unit for .2 metres.</p> <p>Lower contact marked by loss of magnetism caused probably by alteration over last 2 metres. Contact veined at attitude of 50°. Basalt is massive flow-type and essentially devoid of fabric.</p>	<p>Laced with 10% white calcite increasing to 15% + after 161.0m. Where brecciation is coarser and fragments more widely separated. Minor hematite in serpentine-calcite veining. Weak staining suggests mild ankerite component to the alteration veining.</p> <p>Ankeritic-carbonate-quartz vein breccia heavily mineralized with pyrite.</p>	<p>Trace disseminated, fine grained pyrite.</p> <p>5-8% fine grained pyrite as small smsv matrix-type sulphide and disseminations.</p>	
<p>175.1-226.4 PILLOWED BASALT</p>	<p>Similar to 127.6-144.1, but with increase in calcite-filled fractures (3%). Medium to dark green, very fine grained. Massive textured groundmass and massively structured. Dark chloritic pillow selvages common, small calcitic vesicles scattered in small amounts throughout.</p>	<p>Irregular, poorly defined whitish quartz-calcite+minor hematite veinlets to aphanitic. Scattered widely through unit.</p>	<p>Nil to trace only pyrite occasional pyrite clot 1-2mm.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Property

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>226.4-235.6 ULTRAMAFIC</p>	<p>Non magnetic. Dark, blackish, chloritic fissure and fine breccia spaces permeate the unit 5% by volume. These structures reflect the brittle, fracture and flow brecciation produced during formation. Unit is very uniform in overall appearance.</p> <p>Lower contact indistinct over 10-20cm. Last 1.5m carry 10-12% white, blotchy quartz-calcite in moderately brecciated section.</p> <p>Dark, blackish coloured groundmass, fine to medium-grained texture. Magnetic.</p> <p>5-8% pale, greenish white serpentine-calcite fissure-breccia veinlets. Unit is crudely brecciated. Massive overall structural appearance.</p> <p>Lower contact indistinct-selected on disappearance of magnetite. Lower part of um tightly brecciated. Basalt discoloured. Colours and minor veining obscure contact.</p>	<p>Usually associated with brecciated sections or fractures. No prominent core angles, but where distinctly linear veins are found angles are commonly 50-60° or more.</p> <p>Typical serpentine-calcite veinlet development (5-8%).</p>	<p>Trace cpy plus some pyrite in lower veined portion of basalt near contact.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>235.6-254.6 PILLOWED BASALT</p>	<p>As for 175.1-226.8. Good pillowed flow sequence. Medium-green with black selvages and fracture-fissure and breccia matrix chlorite permeating the coarse flow material. Frequent coarse flow breccias. Massive structure to unit. Lower contact in breccia section, small carbonate-quartz vein material-leached by water also sits at contact.</p>	<p>Several white quartz veinlets in unit.</p> <p>237.1-242.0 Strong epidote development of principally a vein component and some pervasive groundmass alteration. The epidote veins are cut by the quartz veins.</p>	<p>Nil sulphides observed.</p> <p>Basalt occurs minor pyrite grains.</p>	
<p>254.6-263.9 MASSIVE BASALT</p>	<p>Similar to 96.8-127.6 etc. Medium green, medium grained groundmass. Massive texture to groundmass and overall structure. Moderately laced by blackish, chloritic fractures occasionally containing white quartz-calcite veinlets.</p> <p>@ 259.3: 80-90°, 10cm quartz-calcite vein with 5 additional cm of pinkish calcite. Non magnetic.</p> <p>Lower contact appears to be gradational over 10-20cm. Changes directly to pillowed unit.</p>	<p>Unaltered-some orange to pinkish calcite occurring in close association with more prominent white quartz-carbonate vein.</p>	<p>Nil sulphides observed.</p>	
<p>263.9-287.8 PILLOWED BASALT</p>	<p>Similar to previous pillowed units. Medium to pale green with much black chlorite-filled fissures, selvages, cracks etc. Highly fragmental structure but massive in appearance.</p>	<p>Typical amount of white quartz-calcite as thin stringer veins of very irregular but angular form and coarse clots.</p>	<p>Nil to trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>276.2-276.6</u> White gypsum with distinct purple cast. Soft but no HCl reaction. Core angles 50°.</p> <p><u>277.0-278.0</u> Darker fine-grained massive flow. Distinct contacts; upper irregular, lower 45°.</p> <p><u>278.0-278.5</u> Well carbonatized with calcite. Prominent fabric 50° to c.a.</p> <p><u>278.5-279.5</u> Paler, flow basalt similar to typical pillowed sections.</p> <p><u>279.5-280.5</u> Same as 277.0-278.0. A fine textured massive basalt flow.</p> <p><u>280.5-281.5</u> Similar to 278.0-278.5. Strong carbonate-quartz infusion giving paler grey white colours amid basaltic green background. Fabric well defined at about 40°-parting and general trend of calcite-quartz.</p> <p><u>281.5-285.5</u> Pillowed, brecciated flow similar to typical pillowed sections. Lower 1.5 metres deformed, low core angles.</p> <p>Much blackish chlorite component. Contact indistinct over 10cm-not sharp.</p> <p><u>285.5-287.8</u> Medium grained, massive flow section. Lacks even colour and homogeneous appearance characteristic of these flow units.</p>	<p>20% calcite-quartz.</p> <p>25% calcite-quartz.</p>	<p>1-2% very fine disseminated pyrite.</p> <p>5-8% fine, disseminated to clustered pyrite.</p>	

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DIAMOND DRILL CORE LOG

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 Hole No. GL-92-71

Project No. 160

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>287.8-294.4 ULTRAMAFIC (KOMATIITIC)</p>	<p>Lower contact exhibits narrow gouge (1 cm) and badly broken up core for .5m.</p> <p>Dark, greyish colour with some darker sections. Medium grained groundmass, massive texture. Fragmental, breccia texture overall. Rounded outline to tightly fitted clasts (tectonic). Initial 1.5m exhibit stress features-gouge, parting water influx. Core angle about 50° average. Moderately magnetic except within a metre or so of contacts. Lower contact indistinct. Basalt appears to be altered sufficiently to mask normal contrast between um and mafic volcanic. Some um in first meter of basalt unit.</p>	<p>No hydrothermal alteration. Very little veinlet development.</p>	<p>Nil observed.</p>	
<p>294.4-395.4 PILLOWED BASALT</p>	<p>As for previous pillowed units. Medium green, very fine grained, massive groundmass and overall structure is that of massive hard, brittle flow rock. Distinct, black to greenish black chloritic pillow selvages, hyaloclastite in places. Permeated by crackle fissures and cracks filled with black chlorite (5%).</p> <p><u>319.3-319.7</u> Silicified section, 75% quartz-carbonate. Strong beige component. Located in breccia interval.</p>	<p>No significant hydrothermal alteration effects. Normal minor calcite-quartz stringers etc. Paler discoloured basalt marginal to some veined, sections contain ankerite, but is minor overall.</p> <p>Hydrothermal vein.</p>	<p>Nil observed, possibly trace pyrite.</p> <p>Trace disseminated pyrite.</p>	<p>Note: Iron staining solution stains basalt groundmass (not vein material) indicating the pervasive presence of ankerite within the mafic. Where it starts was not identified, but it was identified by 330+ metres. Not representative of ankerite alteration envelope.</p>

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>395.4-459.6 ULTRAMAFIC/ BASALTIC KOMATIITE</p>	<p><u>325.0-325.4</u> Silicified zone similar to 319.3-319.7m. White quartz with beige crystalline margins.</p> <p><u>325.4-395.4</u> Continuous section of pillowed basalt.</p>	<p>Hydrothermal vein.</p>	<p>Nil to trace disseminated pyrite.</p>	
	<p>Generally dark grey-black, aphanitic to medium grained locally massive. Polysutured in places with chloritic selvages. 3-4% dark grey chlorite+talc/serpentine fracture filling (primary cooling fractures, cracks). Minor <1% quartz veining, intermittent rubble magnetic in places. Relatively undeformed appearance.</p>	<p>Weak talc-chlorite alteration, local weak epidote.</p>	<p>Trace pyrite generally.</p>	
	<p><u>395.4</u> Sharp contact at 70° to core axis marked by fine dusty pyrite mineralization over 5cm interval.</p>		<p>10% pyrite over 5cm.</p>	
	<p><u>395.4-413.0</u> Fine to medium grained, massive, generally non magnetic. Greenish intervals suggestive of mafic volcanic. However, probably basaltic komatiite. General description as above.</p>	<p>As above, weak epidote alteration in places.</p>		
	<p><u>413.0-428.0</u> Intermittent rubble zones over 1/2 to 1 metre intervals; magnetic from approximately 413m. Fine brecciation suggestive of hydraulic breccia or cooling feature ie. not tectonic-no fabric developed. Negligible veining. Fractures/cracks healed with chlorite ± serpentine.</p>		<p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>459.6-465.0</p> <p>MAFIC VOLCANIC PILLOWED</p>	<p><u>437.0-439.0</u> Foliation at 50° to core axis. Probable tectonic fabric.</p> <p><u>439.0-459.6</u> Dark colour, brecciated characteristic persists. Strongly magnetic, soft-talc-chlorite and calcite.</p> <p>Pale to medium green, aphanitic, pillowed, amygdaloidal, 8-10% irregular, discontinuous primary (cooling) fractures healed with dark green chlorite+white quartz +/- minor white calcite. Pillow selvages are distinct, chloritic. Minor (2-3%) white quartz veining.</p> <p><u>429.6</u> Sharp contact at 65° to c.a.</p> <p><u>461.0-461.2</u> White quartz vein with 50% vein breccia and chlorite healed fractures.</p>	<p>Talc-chlorite- 1-2% calcite filling fractures in places.</p> <p>Weak chlorite.</p>	<p>Trace pyrite.</p>	<p>Breccia is possibly primary may not be tectonic as suggested by lack of strong tectonic fabric.</p>
<p>465.0-501.3</p> <p>ALTERED ULTRAMAFIC VOLCANIC</p>	<p>Variable colour-grey to pale green, aphanitic, generally soft-talcose-variably magnetic. Increase in magnetite causes increase in intensity of grey colour.</p> <p>Variably marbled with pygmatic white talc+ankerite. Minor quartz veining generally. Strong foliated fabric in places-clay fault gouge in places. Intermittent fault breccia.</p>	<p>Talc-chlorite- ankerite.</p>		

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DIAMOND DRILL CORE LOG

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 Project No. 160 Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>469.5</u> Fault gouge, foliated at 50° to c.a.</p> <p><u>472.6-472.7</u> Fault gouge, flanked by foliated ultramafic at 55° to core axis.</p> <p><u>475.0</u> Foliated at 45° to c.a. Grey ultramafic and whitish talc-ankerite characterize foliation.</p> <p><u>477.0</u> Foliated at 45° to c.a.</p> <p><u>477.0-495.0</u> Generally pale green colour-mottled texture, massive to foliated.</p> <p><u>480.1-481.0</u>: Porphyry Dyke? Brown, massive, mottled texture, hard siliceous intensely fractured. Strong talc-chlorite at margins. Dark green talc-chlorite ± quartz healing fractures.</p> <p><u>483.5-484.0</u>: Mafic Dyke? Dark green chloritic interval-soft, aphanitic-massive.</p> <p><u>487.0</u>: Foliation at 50° to c.a.</p> <p><u>489.7-490.7</u>: 30-40cm chlorite-talc intervals with 1-2% fine to medium grained euhedral pyrite.</p> <p><u>495.5-496.2</u>: Chloritic interval fractured, foliated at 55° to c.a.</p>	<p>Talc-ankerite.</p> <p>Talc-ankerite.</p> <p>Siliceous talc-chlorite in fractures.</p> <p>Talc-chlorite-ankerite.</p>	<p>1-2% fine to medium grained euhedral to anhedral pyrite.</p> <p>2-3% medium grained euhedral pyrite.</p>	<p>Lithology is questionable.</p>

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DIAMOND DRILL CORE LOG

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 Hole No. GL-92-71

Project No. 160

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>501.3-524.7 MAFIC VOLCANIC</p>	<p><u>497.1-498.5</u> White quartz vein with 40% irregular ultramafic vein breccia fragments and fracture filling flanked by strong foliated intervals at 55° to c.a.</p> <p><u>498.9-499.3</u> Mafic Dyke? Dark grey, aphanitic, massive, hard, moderately magnetic.</p> <p>498.9: Contact at 65° to c.a.</p> <p>499.0: Mauve-hematitic fault gouge along irregular-uneven fracture surface-not striated.</p> <p><u>499.3</u> Contact? sharp at 65° to core axis. Fault gouge over 4cm.</p> <p><u>499.3-501.2</u> Fault zone, gouge and breccia. Strong fabric generally at 50-60° to c.a. Variable in places.</p> <p>499.3-500.2: Grey, knots, clasts of carbonate ± quartz, chloritic fractures.</p>	<p>Talcosed ultramafic fragments.</p> <p>Moderate hematite alteration.</p> <p>Chloritic</p>	<p>Trace pyrite.</p> <p>Pyritic along lower contact, over 2-3cm interval.</p> <p>Minor pyrite <.5%.</p>	
	<p>Medium to dark green, aphanitic, massive flow aligned, quartz ± calcite characterize foliation at contact at 50° to core axis. White, discontinuous quartz-ankerite veining at contact. Fine colour laminations characterize foliation in places.</p>	<p>Weak to moderate ankerite in fractures and quartz-ankerite veinlets. Minor calcite filling fractures.</p>	<p>Trace pyrite.</p>	

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p>3-4% late (mm scale) narrow white quartz ± calcite veinlets cut core discordant to foliation at low angles (10-30°) to core axis. Grey, metallic, hematite to 30% in veinlets in places. Reddish hematitic staining along veinlet margins in places. 3-4% narrow calcite veinlets (1mm-1cm) concordant to foliation.</p> <p><u>503.0</u> Foliated 46° to c.a.</p> <p><u>512.0-520.0</u> Fine leucoxene to 4-5% spots core.</p> <p><u>519.9-520.5</u> Rubble.</p> <p>Foliation angles to core axis: 504.0-46°, 516.5-45°, 522.5-72°/</p>	<p>Weak calcite, weak epidote. Leucoxene in places.</p>	<p>Trace pyrite, hematite as noted.</p>	
<p>524.5-525.8 FAULT CONTACT</p>	<p>Chloritic gouge and strong foliation at various angles to core axis. Generally 55° - talcose. Knots and clasts of white calcite +/- quartz.</p>	<p>Talc-chlorite alteration. Weak to moderate calcite.</p>		
<p>525.8-533.9 ULTRAMAFIC VOLCANIC</p>	<p>Dark green, aphanitic, talc-chlorite-carbonate ultramafic. Marbled with 10-20% white calcite and ankerite + serpentinite.</p> <p>Moderate fabric characterized by calcite ± quartz knots, blebs and narrow veinlets ore seams. No crosscutting veinlets.</p>	<p>Talc-chlorite-carbonate (calcite and ankerite).</p>		

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DIAMOND DRILL CORE LOG

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Project No. 160

Hole No. GL-92-71

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>528.5-530.5</u> Knots of grey calcite causing brecciated appearance 30-40% carbonate ± quartz.</p> <p>528.5: Foliated at 70° to c.a.</p> <p>529.0: 10cm white quartz vein.</p> <p>532.9: Foliated at 65° to c.a.</p> <p>533.9: Foliated at 45° to c.a. at contact.</p>	<p>Talc-chlorite-calcite.</p>	<p>Trace pyrite.</p>	<p>Medium green colour of matrix is suggestive of mafic volcanic.</p>
<p>533.9-555.4 MAFIC VOLCANIC</p>	<p>Medium to dark green, aphanitic, massive to foliated-massive flow. Strong schistose fabric in places at 65° to c.a. characterized by colour variations and calcite and/or quartz blebs and seams. 5-10% quartz-calcite as concordant and discordant veinlets, seams. Later crosscutting mm to cm scale veinlets to 1-2%.</p> <p><u>533.9-534.6</u> 10-15% irregular quartz veins and knots, minor calcite.</p> <p><u>540.8-541.2</u> 60% quartz vein, with vein breccia. Appears to be at flow contact.</p> <p><u>541.2-547.0</u> Leucoxenitic-fine leucoxene spots core.</p>	<p>Moderate chlorite-calcite. Weakly silicified (as veinlets-seams) and knots.</p>	<p>Trace to minor pyrite as anhedral to euhedral grains generally along fine fractures. Weakly hematitic in places along fractures associated with quartz +/- carbonate veinlets.</p>	<p>534.4-536.0 Rubble-50% core recovery.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 14 OF 14
Hole No. GL-92-71

Project No. 160
Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>547.0-548.7</u> Dark green, soft, chloritic, foliated, 10% white to grey quartz and calcite generally as seams and knots concordant to foliation. In places carbonate marbling is suggestive of ultramafic and characterizes foliation at 65° to core axis.</p> <p><u>548.7-555.4</u> Foliated 60-65° to core axis, 5-8% quartz-calcite veinlets, seams and knots-concordant to foliation. Minor late mm scale quartz-calcite veinlets discordant to foliation.</p> <p><u>555.4-557.0</u> Greenish grey to grey, strong foliation at 60-65° to core axis. 8-10% calcite and quartz seams, knots concordant to foliation.</p> <p><u>555.4</u> Relatively obscured contact. Hard to distinguish rock types. Strong foliation and knots of calcite with quartz.</p> <p><u>556.0-557.0</u> Fault zone, grey, elongate and aligned angular talcose breccia fragments. Foliated at about 55° to c.a.</p>	<p>Strong chlorite-calcite. Calcite occurs as concordant seams and knots as noted.</p> <p>Moderate calcite as noted.</p> <p>Talc-chlorite-calcite.</p> <p>Talc-chlorite.</p>	<p><1 to 1% disseminated pyrite.</p> <p>Trace pyrite.</p> <p>2-3% anhedral, patchy pyrite masses in groundmass healing breccia fragments.</p>	
<p><u>557.0</u></p>	<p>END OF HOLE</p>			

LATITUDE 825N

DEPARTURE 860E

ELEVATION 0

DIP AT COLLAR -69 BEARING 040°

TOTAL DEPTH 549.0 CORE SIZE NQ

CORE STORAGE Timmins-Noranda Expl. Storage

REMARKS Casing left in hole - capped

NORANDA EXPLORATION COMPANY LIMITED

DIAMOND DRILL CORE LOG

Sheet No. 1 Of 1

Project No. 160 Hole No. GL92-72

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax Pa

Date started October 31/92 completed November 11/92

Contractor Norex Drilling

Logged by J. Garber

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
60	-69°		
120	-70°		
180	-69°		
240	N/A		
300	-70°		
360	-70°		
420	-67°		
480	-66°		
528	-66°		
549	-66°		

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0-42.0 OVERBURDEN				
42.0-286.3 ULTRAMAFIC VOLCANIC	<p>Black, massive, aphanitic, variably magnetic moderately hard - no distinct tectonic fabric evident. Intermittent broken - rubble zones. Chloritic fractures are common in places accompanied by calcite (1-2%). Narrow chloritic ± calcite selvages resembling pillow selvages suggests polysuturing.</p> <p><u>42.0-48.0</u> Rubble at top of hole 52-54, 67.3, 68,8, 70.5, 74,0, 75-78: Rubble Intense fracturing and brecciation persists with intermittent rubble zones and zones of lost core to 222m. Breccia fragments are angular to subrounded - with variation from no preferred orientation to strong tectonic fabric. Clasts are healed in places with chlorite or calcite. Fractures are principally chloritic. Alignment of clasts in places causes foliation at 45 to 60° to C.A.</p> <p><u>98.0-98.5</u> Fault gouge.</p>	<p>Relatively unaltered chloritic selvages, fractures with weak calcite. Weak to moderate talc-chlorite prominent chlorite.</p>	<p>No visible mineralization</p>	<p>96cm - 1.1m of ground and lost core.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 9

Project No. 160

Hole No. GL-92-72

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>286.3-365.5</p> <p>MAFIC VOLCANIC</p>	<p><u>272.7-273.0</u>: Rubble</p> <p><u>285.0-286.0</u> Increase in carbonate (calcite) to 15-20% irregular veinlets, stringers.</p> <p><u>286.3</u> Distinct contact with pillowed amygdaloidal mafic volcanic.</p>			
	<p><u>286.3-307.6</u> Pillowed amygdaloidal flow.</p>			
	<p><u>286.3-290.0</u> - Pale brownish colour 10% white calcite-quartz fracturing or pillow selvages. Generally massive - aphanitic with fine <1 to 2mm chloritic amygdules near pillow selvages.</p>	<p>Carbonate (calcite) over 7 cm to contact.</p>		
	<p><u>287.2-287.8</u> - Grey, massive, aphanitic mafic dyke. Hard - not magnetic.</p>	<p>Quartz-calcite veining (1-2cm) at contacts.</p>	<p>2-3% fine disseminated pyrite.</p>	
	<p><u>290.0-307.6</u> - Pale green undeformed, pillowed flow cooling type fractures healed with dark green chlorite. Minor calcite (1%) veining.</p>	<p>Weak chlorite.</p>	<p>Trace pyrite.</p>	
	<p><u>291.0-292.5</u>: Narrow quartz veins (2-4cm) at 15-40% to core axis.</p>			
	<p><u>307.6-316.0</u> Massive flow-medium green, aphanitic to fine grained, leucoxenitic.</p> <p><u>316.0-326.0</u> Pillowed flow as at <u>290.0-307.6</u>.</p>			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 9

Project No. 160

Hole No. GL-92-72

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>326.0-341.6</u> Massive flow, medium green, aphanitic to fine grained, massive-undeformed, 5-8% discontinuous (cooling) fractures healed primarily with chlorite.</p> <p>2-3% white quartz-calcite veinlets up to 1-2cm wide. Fine leucoxene spots core in places.</p> <p><u>326.9-327.2</u> Grey, quartz-ankerite vein, foliated 50° to c.a., pyritic.</p> <p><u>341.6-354.4</u> Pillowed mafic volcanic as at 290.0-307.6m.</p> <p>354.4: Narrow interval (.8cm) of flow breccia accompanied by pyrite.</p> <p><u>354.4-365.5</u> Massive flow as at 326.0-341.6m.</p> <p>361.3-362.3: Fault breccia fragments aligned in places at 50 to 90° to c.a. Chlorite and minor calcite heals clasts 2-3% quartz-calcite veining to 2cm wide concordant to foliation.</p> <p>365.5: Foliated at contact 50° to c.a.</p>	<p>Weak chlorite, calcite as noted, weak epidote.</p>	<p>Trace pyrite.</p> <p>326.9-327.3 5-8% pyrite disseminated principally in mafic vein breccia fragments and penetrating mafic wallrock to 10-15cm.</p> <p>354.4-354.5 5-8% fine disseminated pyrite.</p>	
<p>365.5-409.9 ULTRAMAFIC VOLCANIC</p>	<p>Grey to greenish grey to black, soft, magnetic, moderate to intensely foliated-fault breccia zone.</p>	<p>Strong talc-chlorite carbonate (calcite) alteration.</p>	<p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 9
 Hole No. GL-92-72

Project No. 160
 Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>409.9-439.8 MAFIC VOLCANIC</p>	<p>Breccia appears similar to ultramafic near top of hole, more calcite and chlorite healing fragments as at 222.0-283.2m and more strongly foliated. 3-5% white quartz and/or calcite knots and blebs generally concordant to foliation.</p> <p><u>386.0-387.5</u> Fault gouge-rubble.</p> <p><u>388.0</u> Spinifex texture.</p> <p>Foliation angles to core axis are as follows: 378.5-30°, 385.5-40°, 392.4-45°, 397.5-48°, 400.5-25°, 403.5-30°, 406.0-45°, 409.5-35 to 40°.</p> <p><u>409.9</u> Alteration obscures contact, but seems to be at 25° to c.a. at abrupt end of white quartz-carbonate breccia zone.</p> <p><u>409.9-439.8</u> Pillowed amygdaloidal mafic volcanic.</p> <p>Pale to medium green, moderately hard, aphanitic, amygdaloidal. Weakly to moderately foliated (colour variations). Amygdules are distinct and generally <1mm to 2cm in length, often stretched and aligned with foliation and filled with calcite or feldspar or epidote. Weakly to moderately fractured, veined (mm scale) with quartz +/- calcite often rimmed with reddish oxidized hematite. Negligible cooling fractures healed with chlorite as noted in higher flows.</p>	<p>Pillow selvages are distinct, yellowish-green chlorite-feldspar and epidote in places. Weak local hematite.</p>	<p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 6 OF 9
 Hole No. GL-92-72

Project No. 160

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>439.8-471.7 ULTRAMAFIC VOLCANIC</p>	<p>Foliation angles to core axis are as follows: 411.4-60°, 415.0-50°, 421.8- 50°, 423.4-60°, 427.8-48°, 436.5-55°.</p> <p><u>439.8</u> Sharp contact at 60° to core axis. Narrow pinkish quartz calcite veining near contact.</p> <p>Black, massive, aphanitic, very soft, variably magnetic to non magnetic-brecciated in places. 5-8% white talc-carbonate marbling and fragments-aligned with foliation in places.</p> <p><u>440.8-441.0</u> Rubble, to ground and lost core.</p> <p><u>442.4-442.6</u> Fault gouge at generally 50° to c.a.-variable.</p> <p><u>446.6-446.7</u> Fault gouge 45-55° to c.a.</p> <p><u>451.0-471.7</u> Deep olive green to grey aphanitic matrix. Marbled with 8-10% white to grey irregular ptymatic ankerite ± talc. Core is spotted in places with ankerite porphyroblasts.</p> <p>Few 1-2cm white-greyish quartz-ankerite veinlets.</p> <p><u>470.0-471.7</u> Carbonate marbling weakens to approximately 3-4%.</p>	<p>Strong talc-chlorite, variable carbonate alteration. Carbonate is calcite to about 451.0m.</p> <p><u>451.0-471.7</u> Carbonate is principally ankerite with minor to no calcite.</p> <p>Strong talc-chlorite-ankerite alteration.</p>	<p>Trace pyrite.</p> <p>Trace pyrite.</p>	<p>462.5 Whole rock analysis.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

7 9
Sheet No. _____ OF _____
GL-92-72

Project No. 160
Property Glimmer
Hole No. _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>471.7-525.5 MAFIC VOLCANIC</p>	<p>Medium grey, massive, aphanitic to fine grained, homogeneous-undeformed, uniform appearance. Not magnetic. Moderately hard, 3-4% white quartz veins to 8cm at various angles to core axis. Sharp contact.</p> <p><u>473.0-477.0</u> Possible ultramafic volcanic. Moderately foliated, weak to moderate ankerite marbling. General appearance is similar to interval at 451.0-471.6m.</p> <p>474.7-477.0: 10-15% irregular quartz +/- calcite veining.</p> <p><u>477.0-509.8</u> As described at 471.7. 4-5% white quartz ± calcite veining up to 1.5cm wide at variable but generally low (10-20°) angles to core axis. Leucoxenitic intervals.</p> <p><u>509.8-514.5</u> Quartz veining at 20cm wide, approximately 10% of interval, minor pyrite, ~55° to c.a.</p> <p><u>514.0-516.5</u> Quartz vein zone, 60-70% white quartz veining with vein breccia fragments to 7cm.</p> <p><u>519.5</u> Becoming finer grained-greener colour, narrow mm to 1cm quartz veinlets at 25 to 40° to core axis (generally 38-40°), 1-2% very fine leucoxene.</p>	<p>471.7-477.0 Variable ankerite, local talc-chlorite. Weak to moderate calcite.</p> <p>Weak chlorite alteration. Weak calcite beyond 490m, chlorite alteration becomes very weak to not significant.</p> <p>Weak calcite, weak fracture chlorite.</p>	<p>473.0-474.5 2-3% euhedral to anhedral pyrite to 1cm in size spot core.</p> <p>476.3-476.6 10% euhedral to anhedral pyrite spotting core and associated with ankerite veinlets/marbling.</p> <p>491.3-492.0 4-5% chalcopyrite associated with quartz filled tension fractures. Blebs of chalcopyrite to 1cm.</p> <p>Trace pyrite, trace chalcopyrite-spotting core.</p> <p>Trace pyrite.</p>	<p>478.5 Whole rock analysis.</p> <p>480.0 Whole rock analysis.</p> <p>496.0 Whole rock analysis.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 8 OF 9

Project No. 160

Hole No. GL-92-72

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>525.0-534.7 ULTRAMAFIC VOLCANIC</p>	<p><u>523.8-525.5</u> Weak to moderately foliated with narrow breccia zones (10-20cm) at 45-55° to c.a.</p> <p><u>525.5-527.7</u> Weakly fractured in part characterizing foliation. Fractures are healed with grey quartz-ankerite and/or fuchsite. 8-10% grey ankerite ± quartz.</p> <p><u>527.7-528.5</u> Grey breccia zone, hard mottled texture with buff-grey coloured fragments to 2cm in diameter. Fragments are angular to subrounded, fractured.</p> <p><u>528.5-534.7</u> Brownish green to grey (honey coloured), massive to foliated, foliation characterized by grey ankerite marbling, veining (5-8%). Minor <1% quartz veining. Whitish knots ankerite +/- quartz causes mottled brecciated appearance in places (eg. 532.5-533.0m).</p> <p><u>534.4-534.5</u> Weak fuchsite at possible contact.</p> <p><u>534.7</u> Contact is obscure, strong (fracture). Foliation is at 50 to core axis. Grey quartz-ankerite healing fractures, narrow (2mm-2cm) later quartz veinlets discordant to foliation.</p>	<p>Ankerite.</p> <p>525.5-527.7 Ankerite, weak to moderate fuchsite alteration.</p> <p>Strong, pervasive ankerite alteration.</p>	<p>Trace pyrite.</p>	<p>Contacts are obscure, indiscernable. May be variations caused by alteration.</p> <p>530.0 Whole rock analysis.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 9 OF 9
 Project No. 160 Hole No. GL-92-72
 Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>534.7-549.0 MAFIC VOLCANIC</p>	<p>Pale green-grey aphanitic, pillowed, amygdaloidal flow. Grey amygdules are <1mm to 3cm in places, filled with calcite and have bleached halos to 1-2mm.</p> <p>Grey carbonate + quartz filled fractures (5-8%) characterize foliation. Foliation angles are as follows: 536.0-50°, 545.5-42°, 547.5-42° to c.a.</p>	<p>Weakly altered, moderate matrix and fracture ankerite to approximately 536m.</p> <p>536.0-549.0 Veinlets are calcitic.</p>		<p>539.0 Whole rock analysis.</p>
<p>549.0</p>	<p>END OF HOLE</p>			

LATITUDE 1451N

DEPARTURE 1225E

ELEVATION 0

DIP AT COLLAR -47 BEARING 040°

TOTAL DEPTH 275m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage-Timmins

REMARKS Casing Left in hole - capped

NORANDA EXPLORATION COMPANY LIMITED

DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
60	47°		
120	48°		
180	49°		
240	50°		

Sheet No. 1 OF

Project No. 160 Hole No. GL92-73

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax Pa

Date started Nov. 13/92 completed Nov. 17/92

Contractor Norex Drilling

Logged by J. Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-40.0 OVERBURDEN				
40.0-71.0 ULTRAMAFIC VOLCANIC	<p><u>40.0-46.5</u> Dark grey to medium grey, relatively soft, massive to moderately foliated. Foliation is characterized by light grey ankerite ± talc marbling from 44.3m.</p> <p><u>40.0-43.5:</u> Dark grey, massive, intensely broken rubble. Fault gouge at 43.5m. Chloritic fracture surfaces-magnetic to 41m. Negligible carbonate.</p> <p><u>43.5-51.2</u> Lighter grey to brownish grey massive to foliated, not magnetic. 10-40% whitish grey carbonate breccia and marbling, characterizing foliation at 60° to core axis and causing mottled appearance in places. Locally spotted with 1-2mm grey carbonate porphyroblasts.</p>	<p>Talc-chlorite-ankerite/calcite alteration.</p> <p>Strong carbonate-chlorite alteration. Carbonate is principally ankerite to 46.9m.</p> <p><u>46.9-51.9</u> Carbonate includes ankerite marbling/porphyroblasts and calcite.</p>	<p>Minor pyrite-intermittent intervals (10-20cm) with 1-2% fine to coarse pyrite, along chloritic fractures and disseminated.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 7
 GL-92-73

Project No. 160

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>71.0-122.9 MAFIC VOLCANIC</p>	<p><u>51.9-71.0</u> Honey coloured to brownish grey, fine grained to aphanitic, foliated to massive, 5-10% darker grey ankerite +/- quartz marbling characterizes foliation at 55 to 65° to core axis. Porphyroblastic-matrix ankerite causes grainy massive appearance in places.</p> <p>Negligible quartz veining to 61.2 metres. Generally not magnetic.</p> <p><u>61.2-61.8:</u> White quartz veining <u>61.5-61.8.</u> 3cm quartz vein at 25° to c.a. Serpentine/talc fragments in vein to 10%.</p> <p><u>67.6-75.1</u> 10% white quartz stringer veins or irregular discontinuous knots-over 10-20cm at 0.5 to 1.5 metre intervals.</p> <p>Buff to pale buff-grey, aphanitic, massive. Weak tension fracturing healed with grey ankerite and/or quartz. Veining as noted between 67.6-75.1m.</p> <p><u>75.1-85.0</u> Negligible veining.</p> <p><u>85.0-91.0</u> 5-8% narrow (<1-3cm) white quartz ± black tourmaline (hyaloclastite?).</p>	<p><u>50.4-51.9</u> Weak patchy (5-15cm intervals) fuchsite alteration associated with whitish grey carbonate (calcite+ankerite) marbling and stringers. Fine to medium grained tourmaline crystals associated with narrow (mm scale) quartz-vein in places.</p> <p><u>51.9-71.0</u> Strong matrix ankerite alteration and grey ptygamic marbling.</p> <p>Strong to moderate matrix ankerite (causing pale colour?) Silicification associated with quartz veining-bleaching vein breccia fragments. Weak tourmaline in quartz +/-ankerite veins.</p>	<p>Trace pyrite, trace chalcopyrite (50.4m).</p> <p>Trace pyrite.</p> <p><u>71.0-75.1</u> Coarse pyritic masses and euhedral pyrite associated with quartz veining. Medium to coarse grained disseminated pyrite to 1-2%.</p>	<p>71.0 Contact is not distinct. Possibly at quartz vein. Finer grained (aphanitic) and negligible grey ankerite marbling in part suggests mafic volcanic (Mg Thol?).</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 7
 Hole No. GL-92-73

Project No. 160
 Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>122.9-161.0 ULTRAMAFIC VOLCANIC</p>	<p><u>86.0-89.0</u>: Greenish-buff colour becomes greener to pale green.</p> <p><u>87.5-122.7</u> Pillowed amygdaloidal flow. Pillow selvages are distinct chloritic ± calcite, hyaloclastic. Amygdules up to 2cm also distinct, filled with feldspar, quartz and/or calcite-not magnetic.</p> <p>2-3% white quartz and/or calcite stringers from <1mm to 4cm wide at 5° to 45° to c.a., generally ~40°.</p> <p>Overall uniform appearance over interval, undeformed, competent.</p> <p><u>122.9</u> Sharp contact at 60° to c.a.</p>	<p><u>86.0-87.5</u> 10% tourmaline. Matrix ankerite alteration wanes calcite veinlets ~1-2% from 84m.</p> <p>Relatively unaltered weak chlorite, silicified in places.</p>	<p>Trace pyrite.</p>	
	<p><u>122.9-132.0</u> Dark grey to black, massive, aphanitic, 2-3% narrow (<1 to 2cm) grey calcite ± serpentine veinlets at various angles to core axis. Not magnetic.</p> <p><u>132.0-134.0</u> Becomes darker grey to black carbonate (calcite)-talc veining/marbling increases.</p> <p><u>134.0</u> Foliation becoming noticeable characterized by calcite/talc fractures-marbling at ~45° to c.a.</p> <p><u>138.0</u> Becoming magnetic.</p>	<p>Chlorite-talc, weak calcite alteration.</p>	<p>Generally trace pyrite.</p> <p><u>124.7-125.5</u> 3-4% fracture controlled pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 7
 Hole No. GL-92-73

Project No. 160
 Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>138.5</u> Narrow (10cm) rubble zone.</p> <p><u>139.2-140.1</u> Chloritic rubble.</p> <p><u>144.5-154.9</u> Strong foliation. Increase in calcite/talc to 8-10%. Foliation angles to c.a.: 145m-56°, 148m-60°</p> <p><u>149.0-149.2</u>: Rubble.</p> <p><u>152.2</u>: Foliation at 50° to c.a.</p> <p><u>152.5-154.7</u>: Rubble, 10cm fault gouge.</p> <p><u>158.5</u>: Foliation at 65° to c.a.</p>	<p>Strong chlorite-calcite-weak to moderate talc.</p>		<p><u>152.5-155.0</u> ~60% core recovery.</p>
<p><u>161.0-166.8</u> MAFIC VOLCANIC?</p>	<p>Medium green, aphanitic, narrow to foliated spotted in places with <1 to 2mm ovoid calcite or feldspar amygdules-hard. 3-5% narrow (1mm-2cm) white calcite stringers 25-50° to c.a. Mottled texture in places. Negligible quartz-calcite marbling as ultramafic unit above.</p>	<p>Strong chlorite, weak to moderate calcite as noted.</p>	<p><1 to 1% fine to medium euhedral pyrite grains along calcitic fractures.</p>	<p><u>161.0-166.8</u> Possible basaltic komatiite. Medium green colour in part suggests mafic (tholeiite) Whole Rock Analysis</p>
<p><u>166.8-174.3</u> ULTRAMAFIC VOLCANIC</p>	<p>Grey, aphanitic, moderately to strongly foliated, soft-talcosed, not magnetic. Marbled/veined with 10% calcite ± talc ± quartz orientation of calcite marbling/veining characterizes foliation.</p> <p>Foliation angles to c.a.: 167.0m-65°, 173.0m-63 to 77°, 174.3m-55°.</p>	<p>Strong talc-chlorite-calcite alteration. Calcite as veining/marbling and matrix porphyroblasts.</p>	<p>Trace disseminated pyrite.</p>	<p>Unquestionable ultramafic komatiite. Whole Rock Analysis</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 7

Project No. 160 Hole No. GL-92-73

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>174.3-192.5 MAFIC VOLCANIC</p>	<p>Light grey-brown, to brownish grey, aphanitic, hard, with dark brown-black distinct pillow selvages. 5% white quartz-calcite veins/knots.</p> <p><u>174.3</u> Contact is not distinct. Silicified in places. Moderate foliation enhanced by alignment of quartz-calcite veinlets blebs/knots.</p> <p>Foliation angles to core axis is 50-55°.</p>	<p>Moderate calcite as noted.</p> <p>Weak to moderate matrix calcite and calcitic veinlets, etc. Very weak matrix ankerite to approximately 182m.</p>	<p>Trace pyrite-euhedral cubes to 1cm spot core in places.</p>	<p>184.8 Whole Analysis.</p>
<p>192.5-199.3 ULTRAMAFIC VOLCANIC (BASALTIC KOMATIITE?)</p>	<p>Aphanitic, honey-brown to fuchsite green-grey colour, massive to foliated, 30-40% dark grey mottled ankerite+quartz causing brecciated appearance in places. 1-2% white quartz blebs in grey ankerite in places.</p> <p><u>192.8-193.1</u> Grey ankerite-breccia with stretched angular buff brown-mafic clasts.</p> <p><u>193.2-193.5</u> Rubble.</p> <p><u>198.5-199.3</u> Medium green, chloritic-strong schistose foliation at 65° to core axis. Pyritic, 15-20% grey ankerite/quartz.</p>	<p>Strong ankerite alteration. Local weak to moderate fuchsite. Fuchsite fractures. Local strong sericite along fractures and associated with fuchsite sections. Moderate to strong chlorite-fractures.</p> <p><u>193.7-193.8</u> Moderate sericite, weak fuchsite.</p> <p><u>197.4-198.4</u> Fuchsite/sericite laminae and fracture filling characterizing foliation in dark grey mottled ankerite altered-breccia zone.</p>	<p>Trace pyrite.</p> <p><u>198.5-199.3</u> 2-3% fine to coarse disseminated pyrite spotting core.</p>	<p>Possible strongly altered mafic (tholeiite). Whole Rock Analysis 194.2 -194.3m.</p> <p>Resembles quartz-ankerite altered breccia zone in hole 66.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 6 OF 7

Project No. 160

Hole No. GL-92-73

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>199.3-260.1</p> <p>MAFIC VOLCANIC</p>	<p><u>199.3</u> 10cm mottled grey quartz-ankerite vein at contact. Contact is not distinct.</p> <p>Generally hard, aphanitic, massive to strongly foliated, buff-brown to brownish grey colour. Distinct pillow selvages to 210m, amygdaloidal and foliated at 60° to core axis.</p> <p><u>210.0-226.0</u> Similar colour and texture, but massive flow. Foliated in places at 40-50° to core axis. Foliation is enhanced by moderate alignment of white-grey quartz ankerite stringers. 2-3% white irregular oriented quartz veinlets.</p> <p><u>226.0-232.0</u> Pillowed, foliated 60-65° to core axis.</p> <p><u>229.5-260.0</u> Moderate to intense, black carbon fracturing, 5-10% carbon filling fractures <1mm to 1cm wide that enhance/characterize foliation.</p> <p>239.5: Leucoxene.</p> <p>Foliation angles to core axis: 236m-60°, 239m-55°, 241m-55°.</p> <p>253.0-253.8: 50% quartz veining.</p> <p>256.6-257.5: 15% white-grey quartz veins/knots at various angles to core axis.</p> <p>256.8: Foliation at 45° to c.a.</p>	<p>Locally silicified, very weak to moderate matrix ankerite, moderately sericitic intervals.</p> <p><u>223.0-229.0</u> Weak yellowish hue caused by weak to moderate sericite alteration. 1-2% calcitic fractures concordant to foliation.</p> <p><u>229.5-260.0</u> Strong carbon/graphite alteration, weak to moderate sericite, local silicification, moderate to strong matrix ankerite alteration.</p>	<p>Trace pyrite.</p> <p><u>237.0-240.6</u> 2-3% coarse (to 1.5cm) euhedral to anhedral pyrite spots core.</p> <p><u>253.0-253.8</u> 3-4% fracture controlled medium grained pyrite.</p>	<p>201.0-201.4 Whole Rock Analysis.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 7 OF 7

Project No. 160

Hole No. GL-92-73

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>260.1-262.5 GRAPHITIC FAULT CONTACT</p>	<p>259.6-259.8: Black graphitic argillite/ quartz. Upper contact 40° to c.a., lower contact 70° to c.a.</p> <p>Approximately 90% black graphitic (carbonaceous) argillite finely laminated with 6-7% medium grey greywacke and 3-4% narrow <1-2mm pyritic white quartz ankerite/ calcite seams.</p> <p><u>260.2-260.3</u> Graphitic fault gouge at 30° to core axis.</p> <p><u>261.5</u> Foliation 58° to c.a.</p>	<p>Strong graphite/ carbon, weak ankerite/ calcite.</p>	<p>1-2% disseminated pyrite and semi- massive pyrite asso- ciated with narrow mm scale quartz- calcite laminae.</p>	
<p>262.5-275.0 BANDED SEDIMENTS</p>	<p>Grey/black, fine to medium laminated black (graphitic) argillite and lighter grey siltstone/greywacke. Obvious bedding and strong S₁ foliation cutting bedding.</p> <p>Bedding angles are quite variable: 262.5-75°, 264.5-67°, 267.0-67°, 268.0-45°, 270.0-50°.</p> <p>S₁ foliation is approximately 15° to c.a. Approximately 10° to bedding (S₀ to S₁ at 262.5m.</p>	<p>Moderate to strong matrix ankerite in greywacke.</p>	<p><1 to 1% medium grained euhedral pyrite spotting core.</p>	
<p>275.0</p>	<p>END OF HOLE</p>			

LATITUDE 1700E

DEPARTURE 1250N

ELEVATION _____

DIP AT COLLAR -68° BEARING 040° Grid North

TOTAL DEPTH 446m CORE SIZE NO

CORE STORAGE Timmins Office

REMARKS Casing left in hole. Should ignore test at 27m.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 1 OF 9

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
27m	-71°??		
60m	-66°		
120m	-68°		
180m	-68°		
240m	-69°		
300m	-69°		
360m	-70°		
446m	-68°		

Project No. 160 Hole No. GL-92-74

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax Patent

Date started Dec. 2, 1992 completed Dec. 7, 1992

Contractor Norex Drilling

Logged by T.N.J. Hughes

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-21.0 CASING				
21.0-24.8 ULTRAMAFIC VOLCANIC (BASALTIC KOMATIITE)	Grey to dark grey, fine grained, massive to locally very weakly fractured and incipiently brecciated, non to trace magnetic. 2-3% thread serpentine-talc-calcite. Matrix is chlorite ± talc ± trace carbonate recrystallized.	Thread calcite, moderate, chlorite, weak serpentine. Minor to moderate Fe-calcite, late.		
24.8-48.45 MAFIC VOLCANIC	Grey, becoming green grey. Pillowed. Selvages are chlorite ± epidote-calcite mineralized. Trace ?-graphite in selvages. Locally, flow brecciation/autobrecciation of pillows. Abrupt contacts, 3-4% quartz-calcite veining.	Epidote-Fe-calcite, calcite. Sparse K-spar with calcite ± quartz.	Trace disseminated pyrite.	
48.45-58.9 ULTRAMAFIC FLOW (BASALTIC KOMATIITE?)	Dark grey, fine grained. Possible fault or flow brecciation 25-35° to c.a. Possibly pillowed. Weak to locally, strongly thread calcite and Fe-calcite/dolomite mineralized (as in matrix). Grades over 1dm into: <u>55.5-60.0</u> Rubble, fault gouge.	Moderate to locally strongly chlorite-talc altered.	Trace disseminated or aggregate pyrite.	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 9
Hole No. GL-92-74

Project No. 160

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>58.9-153.1</p> <p>MAFIC VOLCANIC</p>	<p>Grey-green to green-grey. Fine grained. Massive to pillowed, or weakly sheared and lineated.</p> <p>2-4% white to ink or pale green quartz ± calcite ± epidote ± hematite ± k-spar veinlets, threads and vein. Locally brecciated. Trace to non magnetic.</p> <p>C.A. foliation: 78.5-36°, 86.0-40°, 89.0-35-45°, 98.0-25-35°, 123.0-125.0-38° becoming 50°, 131.0-134.0-45-52°.</p> <p><u>113.6-115.08</u> Pale green-grey, 5-6% thread quartz-epidote-hematite, flow top. Contacts over 0.5m above and below, exhibit higher strain, are shear banded epidotic, C.A.F. 70-90°. Matrix in zone is weakly Fe-carbonatized. Pillowed flow to 115m, massive leucoxenitic flow below 115m.</p> <p><u>118.5-136.5</u> Fleck saussurite parallel to lineation/foliation. 2% quartz-calcite-chlorite threads and veinlets.</p> <p><u>136.5-153.1</u> Grey (green), becoming grey, lined to massive. Locally incipiently brecciated. Non magnetic. 2-3% thread calcite-quartz.</p> <p>C.A.F. (local) quartz vein 32-40°. Locally lepidoblastic, felty, with shear banding bounding these sub-sections. Probably rubble/flow top fabrics, now partially recrystallized.</p>	<p>Weak chlorite, calcite, epidote.</p> <p>Silica-epidote-calcite-hematite (all weak, locally moderate).</p> <p>Weak saussurite.</p> <p>Weak matrix, Fe-calcite. Weak chlorite alteration.</p>	<p>1/2 aggregate, recrystallized pyrite.</p> <p>1/4-1/8% disseminated pyrite.</p> <p>Trace disseminated pyrite.</p>	<p>C.A.F.-core angle foliation.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 9

Project No. 160 Hole No. GL-92-74

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>153.1-171.7 ULTRAMAFIC FLOW</p>	<p>Lower contact abrupt at 55-65° to c.a. <u>150.4-152.3</u> Mafic dyke, hard, siliceous, moderate biotite. Dark grey, fine grained. Moderately, locally strong thread to veinlet Fe-calcite (and rare Fe-dolomite) infill along abundant fractures. Locally, magnetic-breccia zone. Fractures host thread or veinlet serpentine and weak talc. Locally, over several dm speckled Fe-carbonate (white predominantly). Lower contact gradational over several dm, though a marked drop in vein/thread carbonate at 171.7m.</p>	<p>Weak matrix and strong thread carbonate. Localized weak to moderate serpentine and talc.</p>	<p>Trace cpy along fractures. Trace pyrite (aggregates).</p>	
<p>171.7-186.5 ULTRAMAFIC FLOW (BASALTIC) KOMATIITE)</p>	<p>Grey-green, fine grained, lineated, foliated or shear banded, at averages 57-62° to c.a. 5± linear, irregular or pygomatic Fe-calcite-quartz veins. May be parallel to shear banding, or crosscut. Non magnetic. Lower contact is quartz veined. <u>176.7-186.5</u> Grey-green to grey. Non magnetic. Fine grained. Lineated to shear-banded (weak to moderate strain) C.A.F. 30-50°. Variable throughout unit.</p>	<p>Weak, locally moderate chlorite. Weak, erratic chlorite and Fe-calcite.</p>	<p>1/8± disseminated often recrystallized pyrite. 1/8-1/2± pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 9
GL-92-74

Project No. 160

Property Glimmer

Hole No. _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p>Weak to trace matrix Fe-calcite. Generally more chloritic (as bands) than proceed. Finely sheared, recrystallized throughout.</p> <p><u>176.7-177.8</u> 85% massive white quartz veining and associated irregular thread chlorite.</p> <p><u>182.45-182.95</u> Green-grey, fine grained lineated to shear (banded). 5% calcite quartz-veining.</p> <p>Overall 1/2% scattered, aggregate, disseminated pyrite in unit. Lower contact sheared and quartz-calcite veined.</p>		<p>Trace pyrite.</p> <p>2-3% speckled pyrite.</p>	
<p>186.5-191.0</p> <p>MAFIC VOLCANIC (POSSIBLE BASALTIC KOMATIITE)</p>	<p>Grey-green, fine grained, massive to lineated and weakly sheared. Non magnetic.</p> <p>3-5% quartz-calcite ± pyrite. Latter as aggregates "nodules" or scattered grains. Lower contact abrupt, sheared at 50° to c.a.</p>	<p>Weak thread fracture infill chlorite.</p>	<p>1/4% pyrite.</p>	
<p>191.0-231.35</p> <p>ULTRAMAFIC VOLCANIC</p>	<p>Grey to dark grey, fine grained, erratically and barely magnetic. Weakly sheared in 65% of unit at 33-50° to c.a.</p> <p>3-4% thread calcite-serpentine ± talc latter weak.</p>	<p>Weak chlorite and Fe-calcite.</p> <p>Weak to moderate Fe-calcite and trace Fe-dolomite.</p>	<p>Trace disseminated</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 9
Hole No. GL-92-74

Project No. 160
Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
231.35-246.55 DIABASE	<p>Local recrystallized-lepidoblastic-felty (where not sheared), slightly coarser-grained or finely brecciated with chloritization of matrix. Upper contact over 3.2m is strongly chloritized, quite soft, with relict more peridotitic clasts (ovoid).</p> <p>Lower contact abrupt, sheared at 54° to c.a.</p> <p><u>191.0-197.0</u> Fault breccia zone, fault gouge.</p> <p>Greenish grey, fine to medium grained, weakly magnetic. Lepidoblastic to sub-aphetic.</p> <p>1½ thread epidote ± calcite, 1½ thread calcite ± quartz.</p> <p>R.Q.D. 45% fractures at 65+, 35-30, 50-65° to c.a. Lower contact rubbly and ?-lost probably abrupt.</p>	<p>Weak, erratic chlorite ± epidote ± trace hematite. Very weak matrix, calcite.</p>	<p>Trace pyrite.</p>	
246.55-252.0 ULTRAMAFIC FLOW	<p>As proceeding ultramafic, though with only 1-2% thread calcite. Barely magnetic.</p> <p>Weakly fractured and recrystallized. Fine grained, contains a few selvages ie. pillowed.</p> <p>Lower contact broken, abrupt.</p>	<p>Very poorly serpentized.</p> <p>Weak Fe-calcite in matrix and as threads.</p>		

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 6 OF 9
Hole No. GL-92-74

Project No. 160

Glimmer

Property _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>252.0-261.1 DIABASE</p>	<p>As previous diabase, but continuing plagioclase blasts (near glomeroporphyritic) from 255.7-256.3, 261.0-261.1.</p> <p>Ultramafic from 259.9-261.0. Lower contact abrupt, irregular, chilled, despite plagioclase blasts. Weakly to moderately magnetic throughout. Fine to medium grained. Fractures at 0-20°, 75+, and 20-30° to c.a.</p>			
<p>261.1-340.3 ULTRAMAFIC VOLCANIC</p>	<p>Dark grey, non to trace magnetic, generally strong magnetic character within 10cm of diabase. Fine grained fracture and thread. Calcite-serpentine ± talc infilled throughout.</p> <p>Finely flow brecciated and sheared very finely Fe-carbonate speckled throughout.</p> <p>Very weak Fe-dolomite over cm widths but rare. Otherwise Fe-calcite. Delict, rare spinifex noted.</p> <p>Lower contact abrupt, irregular, 0-70° to c.a. over 1.2 dm.</p> <p><u>306.4-312.6</u> Pale to medium grey, recrystallized, lepidoblastic-felty to lineate. Weakly sheared, locally lineate-foliated, defined by um, irregular chlorite.</p>	<p>Moderate to strong chlorite alteration. Weak to moderate Fe-carbonate (calcite-"ankerite").</p> <p>Weak to sparse talc formation. Weak,</p> <p>Strong carbonatization (Fe-dolomite). Very weak to moderate, fine serpentine.</p>	<p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 7 OF 9

Project No. 160

Hole No. GL-92-74

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p>Matrix is carbonate rich (Fe-dolomite) locally, clear evidence of slumping, with brecciation of unit, with highly variable alteration/mineralogy and texture between clasts and "infill". Suggestive of a carbonate rich ooze/mud and a carbonatized ultramafic both remobilized.</p> <p>5% calcite-dolomite-serpentine threads and veins. Both upper and lower contacts are irregular and abrupt.</p> <p><u>312.6-315.0</u> Dark grey, chloritic. 5-8% linear, irregular or ptygmatic quartz Fe-calcite and minor Fe-dolomite, locally foliated at 0-30° to c.a. Contains a 30cm "lens" of 306.4-312.6 lithotype.</p> <p>Grades over several dm into:</p> <p><u>315.0-320.0</u> Medium grey, foliated at 0-28° to c.a. Locally recrystallized. Generally fine grained with abundant fine speckled to mm-blastic/Fe-calcite and 6% thread Fe/Ca calcite.</p> <p><u>320.0-323.15</u> Grey, lineate at 15-32° to c.a. Non magnetic. 5% quartz-calcite veins and threads. Moderately recrystallized and carbonatized.</p>	<p>Strongly chloritized. Moderate to weak serpentine. Minor to weak talc.</p> <p>Strong serpentine-talc. Moderate calcite alteration.</p> <p>Moderate matrix, Fe-calcite and minor Fe-dolomite.</p>	<p>Nil pyrite.</p> <p>Trace pyrite.</p> <p>Trace pyrite.</p> <p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 8 OF 9

Project No. 160

Hole No. GL-92-74

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>323.15-334.3</u> As 312.6-315.0. 10-15% quartz-calcite veins and threads (linear, irregular, fragmental or brecciated) at 0-10, 10-30, 55-70° to c.a. 4 sets, 2 at 0-20° to c.a.</p> <p><u>334.3-340.5</u> Grey, fine grained. Non magnetic. Finely foliated at 38-45° to c.a. 3-5% calcite veins. Locally felty texture and carbonaceous, recrystallized.</p> <p>Greenish grey over some section. Matrix is commonly sparsely to weakly and finely carbonate speckled or lineated, recrystallized and strongly carbonatized (Fe-calcite or "ankerite").</p>	<p>Moderate to strong chlorite and carbonate ("ankerite").</p>	<p>Trace pyrite.</p>	
<p>340.5-346.4 PILLOWED MAFIC VOLCANIC</p>	<p>Paler greenish-grey. Sheared, brecciated or recrystallized and relatively massive. Strongly carbonatized, which has resulted in a brecciated host of relict, chlorite rich fragments, threads, bands and stringers. Shearing is of only moderate intensity. 5% calcite ± quartz veins are often fragmental, sheared and recrystallized. Sulphides are recrystallized also, and erratically distributed. Shearing producing a fabric at 0-52° to c.a.</p>	<p>Strong Fe-carbonatization (?-ankerite or dolomite not calcite). Chloritized.</p>	<p>1/8-1/4% pyrite, usually recrystallized.</p>	
	<p><u>346.35-348.8</u> Slightly darker and slightly weaker (though still strong) carbonatization. Shear, foliated at 40-38° to c.a. Contact abrupt, calcite-quartz threaded at 38-40° to c.a.</p>	<p>As proceeding, though slightly weaker.</p>	<p>1% fleck linear pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 9 OF 9
Project No. 160 Hole No. GL-92-74
Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>434.6-446.0 ULTRAMAFIC VOLCANIC</p>	<p>Greenish grey, locally green, and more chloritic. Sparsely, erratically magnetic. Fine grained to carbonate recrystallized and fine to medium grained. Often lineate to shear foliated over dm-1/2m widths at 35-40° to c.a.</p> <p>Selvages are chlorite-calcite infilled. Locally carbonate flecked or mm-blastic. 3-6% irregular vein, mesh, threads, wispy or shear linear calcite ± quartz veins. 1/2% dolomite veins. Upper contact gradational over 1-1.5m.</p> <p><u>405.0-407.6</u> 12-15% brecciated calcite ± quartz veins and 1/2-1% recrystallized pyrite. Latter usually in or adjacent to selvages.</p> <p><u>430.9-434.6</u> Grey, carbonatized. Fine grained, massive, lepidoblastic. Locally with mm thread or veinlet chlorite, or with amygdaloidal carbonate-saussurite. Non magnetic unit. Lower contact abrupt, at 34° to c.a.</p> <p>Grey, dark grey, fine grained, non magnetic. Finely lineate, carbonate-speckled, threaded or veined. Locally finely foliated at 46-52° to c.a. May part along serpentized slip planes.</p> <p>5% irregular or linear calcite-quartz vein.</p> <p>446.0 END OF HOLE</p>	<p>Weak to locally moderate Fe-carbonate over dm widths. Reacts with warm/hot acid and a blue stain. Locally only calcareous.</p> <p>Moderate Fe-carbonate alteration ("ankerite")</p> <p>Moderate Fe-calcite serpentized and locally talcose.</p>	<p>Trace pyrite.</p> <p>Nil pyrite.</p> <p>Trace to 1/8% disseminated pyrite.</p>	

LATITUDE 1950E

DEPARTURE 1460N

ELEVATION _____

DIP AT COLLAR -45.5 BEARING 040 Grid North

TOTAL DEPTH 197m CORE SIZE NQ

CORE STORAGE Timmins Office

REMARKS Casing left in hole

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
27m	-46.5		
60m	-47		
120m	-48		
197m	-50		

Sheet No. 1 OF 3

Project No. 160 Hole No. GL92-75

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. 1048334

Date started December 8/92 completed December 12/92

Contractor Norex Drilling

Logged by T.N.J. Hughes

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-18.0 CASING				
18.0-177.4 ULTRAMAFIC VOLCANICS	<p>Grey, dark grey, to bluish-grey. Fine grained, grano-or lepidoblastic. Trace to non-magnetic. Locally incipiently flow brecciated/fractured, with chlorite infills. Otherwise, relatively massive. Matrix stains blue (medium).</p> <p><u>0.0-26.3</u> R.Q.D. 8%.</p> <p><u>27.8-31.9</u> Paler, with abundant fine to mm-blastic, Fe-carbonate. A more distinct (recrystallized) granoblastic to felty fabric. 5-3% calcite-serpentine. Overall 3-4% thread calcite-serpentine ± talc.</p> <p>Below 56m, distinct decline in speckled and vein/thread carbonate. Magnetic. Generally more massive.</p>	<p>Chlorite, weak talc and serpentine. Fe-carbonaceous to dolomitic matrix, not ankerite, s.s.</p> <p>Moderate to locally strong "ankerite"/dolomite.</p> <p>Fe-calcite matrix.</p>	<p>Trace scattered pyrite often as recrystallized amygdules.</p> <p>Nil pyrite.</p> <p>Trace pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 3

Project No. 160

Hole No. GL-92-75

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>61.1-136.55</u> Magnetic, relatively massive, but pillowed throughout. Carbonate matrix ?-rare spinifex also noted eg. at 75.1m. Selvages are chlorite, serpentized. 3-5% calcite-serpentine-talc threads and veinlets (or in selvages) and randomly oriented.</p> <p>Texturally grano-to lepidoblastic, fine-grained.</p> <p>Below 133m, finely abundantly Fe-carbonate speckled. Trace to moderately magnetic. Fine grained, 6% calcite-serpentine-talc green chlorite veins and threads. Grades over 1.0dm into:</p> <p><u>136.55-140.70</u> Altered ultramafic volcanic, greenish grey, recrystallized fine to nearly medium grained. Granoblastic.</p> <p>5% thread or irregular vein calcite-chlorite and quartz.</p> <p>Locally, appears brecciated then totally recrystallized and strongly carbonatized.</p> <p>Below 140, appears texturally and colour wise, more as a ?-pillowed mafic, with only weak carbonate. Incipiently brecciated with possible relict selvages noted. Abrupt lower contact at 70-68° to c.c. and chlorite-carbonate veined at same angle and at angles to core (tension gash threads).</p>	<p>Fe-calcite and minor "ankerite" (scratched) core barely reacts stain is medium blue. Minor to moderate chlorite. Weak serpentine.</p> <p>Fe-calcite, weak matrix "ankerite".</p> <p>Strong to moderate ankerite.</p>	<p>Trace pyrite.</p> <p>Trace pyrite.</p> <p>Trace pyrite, cp (latter as clots in Q.V.).</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 3

Project No. 160 Hole No. GL-92-75

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>177.4-197.0</p> <p>MAFIC VOLCANIC</p>	<p><u>140.7-177.4</u> Dark grey, initially magnetic, decreasing rapidly at depth. Dark (bluish)-grey. Matrix carbonate appears as fine blasting grains.</p> <p>5-6% thread and vein calcite-serpentine-± chlorite+quartz. Lowermost 1.2m is moderately Fe-carbonatized and recrystallized. Grades over 1.5dm.</p> <p>Grey, becoming greenish grey. Fine grained. Trace non-magnetic. Lepidoblastic, locally 1% quartz-carbonate amygdaloidal on, over uppermost-5m, pillowed with quartz-epidote-carbonate selvages.</p> <p>Lowermost 5.5m appears more finely brecciated/recrystallized by carbonate, but still weak. Becomes lineated, at 55-40° to c.a. at depth.</p> <p>Overall, 3% thread calcite-quartz±chlorite.</p>	<p>Chloritized weakly calcareous and "ankeritic".</p> <p>Weak Fe-calcite and minor, erratically distributed ankerite. Both in matrix. Moderately calceous and recrystallized in uppermost 1.1m.</p>	<p>Trace pyrite.</p> <p>Trace pyrite.</p>	
<p>197.0</p>	<p>END OF HOLE</p>			

LATITUDE 1165N

DEPARTURE 800E

ELEVATION +8m

DIP AT COLLAR -50° BEARING 040°

TOTAL DEPTH 458m CORE SIZE NQ

CORE STORAGE Noranda Expl. Storage - Timmins
Extension of GL90-31 from 224.3m

REMARKS Casing left in hole - capped

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
280	-52°		
340	-51°		
400	-50°		
458	-50°		

Sheet No. 1 OF 5

Project No. 160 Hole No. GL90-31 ext.

Property Glimmer

NTS. 42A/9 TWP. Hislop Claim No. Truax Pa

Date started Nov. 18/92 completed Nov. 25/92

Contractor Norex Drilling

Logged by J. Garber

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
224.3-251.0 PILLOWED AMYGDALOIDAL MAFIC VOLCANIC	Pale green, aphanitic, distinct chloritic-calcitic pillow selvages. Relatively undeformed, 2-3% quartz-calcite veining to 2cm wide.	Weakly calcitic.	Trace pyrite.	
251.0-282.9 ULTRAMAFIC VOLCANIC	Dark grey-green to black, aphanitic, massive to foliated. Marbled with 8-10% white pygmatic quartz-calcite veining. 251.0 Contact is relatively sharp at 65° to core axis. Moderate foliation is characterized by quartz-calcite veining at 65° to core axis. 282.3-282.7 White quartz vein.	Strong talc-chlorite-calcite.	Trace pyrite. No visible mineralization.	
282.9-315.0 DIABASE	Grey, fine to medium grained, massive glomero-porphyrific texture. Generally uniform appearance. Variably magnetic-non to moderately magnetic. 282.9 Sharp undulating contact at approximately 55° to core axis. Weakly fractured.	2-3% calcite-weak epidote veining, fracture filling.		

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 5

Project No. 160

Hole No. GL-90-31 Ext.

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>315.0-331.0 ULTRAMAFIC VOLCANIC (BASALTIC KOMATIITE)</p>	<p>Medium grey, massive, aphanitic to fine grained weak to moderate, white to greyish calcite and pale green translucent talc/serpentine veining or fracture filling. Hard in places, not magnetic.</p> <p><u>315.0</u> Broken at contact.</p> <p><u>315.3-315.5</u> Rubble.</p> <p><u>325.0-326.0</u> Foliated at 70-75° to core axis.</p>	<p>Variable talc-chlorite, local weak silicification. Weak to moderate calcite as noted.</p>	<p>Trace pyrite.</p>	<p>319.9-320.0 Whole Rock Analysis.</p>
<p>331.0-338.4 MAFIC VOLCANIC (THOLEIITIC BASALT)</p>	<p>Medium green, aphanitic, massive flow, hard. Moderate to strong schistose foliation at 60-65° to core axis.</p> <p>2-3% calcite veins/blebs generally concordant to foliation. Few veinlets discordant to foliation. Contacts are difficult to discern.</p>	<p>Weak to moderate chlorite, weak calcite as noted.</p>	<p>Trace pyrite, trace chalcopyrite (338m).</p>	<p>Possibly a weakly veined, chlorite altered interval of basaltic komatiite.</p> <p>335.5-335.6 Whole Rock Analysis.</p>
<p>338.4-348.4 ULTRAMAFIC VOLCANIC (BASALTIC KOMATIITE)</p>	<p>Medium greenish-grey to black, aphanitic, massive, 4-5% greyish calcite ± talc veining and irregular ptigmatic marbling. Softer, more talcose than above ultramafic interval. Greenish, chloritic intervals resemble mafic volcanics in places.</p>	<p>Moderate to strong talc (serpentine) -chlorite-calcite.</p>	<p>Trace pyrite.</p>	
<p>348.4-442.8 MAFIC VOLCANIC</p>	<p>Medium to green to pale green-grey, aphanitic, moderate to strongly foliated-massive flows.</p>	<p>Moderate chlorite, weak calcite to about 384m.</p>	<p>Weak local pyrite.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 5

Project No. 160 Hole No. GI-90-31 Ext.

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>348.4-384.0</u> Medium green colour, 10-15% greyish-white calcite laminations/veining concordant to foliation. Few white later quartz veins to 1.5cm wide discordant to foliation.</p>			
	<p><u>384.0-442.8</u> Pale green-grey colour, aphanitic to fine grained-relatively uniform, homogeneous appearance. Moderate to strong foliation with 2-3% narrow (4-2mm) calcite laminations enhancing foliation. <1% fine (1mm), later calcite veinlets discordant to foliation. Minor quartz +/- carbonate (calcite or ankerite) veining.</p> <p>Foliation angles to core axis: 394m-60°, 401m-60°, 415m-55°, 424.1m-40°.</p>	<p><u>384.0-442.8</u> Decrease in chlorite alteration, weak to moderate carbonatization as matrix calcite/ankerite-calcite seams/veins, fracture filling.</p> <p><u>395.0-432.0</u> Weak to moderate matrix ankerite.</p>	<p>Trace pyrite.</p>	<p>Grainy, carbonatized intervals somewhat resemble honey coloured ankerite altered (ultramafic) volcanic in places, but lighter in colour.</p>
	<p><u>422.3-424.4</u>: Flow/fault? breccia. Strong foliation at 45° to core axis. Elongate, aligned, ovoid, subangular to subrounded monolithic clasts and matrix makes breccia difficult to detect.</p>		<p>Trace pyrite.</p>	
	<p><u>423.5-426.8</u>: Weak to moderate black carbon fracturing.</p>		<p>Trace pyrite.</p>	
	<p><u>433.0-442.8</u>: Well foliated, negligible veining, however, 5-10% mottled grey ankerite ± quartz laminations concordant to foliation.</p>	<p><u>432.0-442.8</u> Matrix ankerite alteration strengthening. No calcite, weak to moderate sericite alteration.</p>	<p><u>438.0-440.0</u> 1-2% coarse (1-2cm) anhedral pyrite spotting core.</p>	
	<p><u>434.6-435.0</u>: Yellowish-white quartz ankerite vein ~ 5° to core axis.</p>			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 5

Project No. 160 Hole No. GL-90-31 Ext.

Property Glimmer

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p>440.3: Narrow zone (5cm) quartz rubble.</p> <p>441.4-442.8 Grey foliated, silicified-ankerite altered breccia zone. Intermittent intervals of mottled grey quartz-ankerite laminated with finely pyritic aphanitic mafic volcanic clasts.</p>	<p>Strong ankerite, weak to moderate sericite. Local fuchsite.</p>	<p>5 to 10% fine, dusty to medium grained pyrite.</p>	
<p>442.8-443.0</p> <p>CARBONACEOUS /GRAPHITIC FAULT ZONE</p>	<p>Grey carbonaceous rubble - fault gouge.</p> <p>442.8 Foliation of quartz-ankerite-mafic breccia is 70° to core axis.</p> <p>Contact is discordant (unconformity) undulating at 80° to core axis, approximately 65° between dip direction mafic foliation and contact with sediments.</p>	<p>Strong carbon.</p>	<p>No visible mineralization.</p>	<p>Intervals of ground and lost core.</p>
<p>443.0-458.0</p> <p>GREYWACKE / ARGILLITE</p>	<p>Black/grey finely laminated black carbonaceous/graphitic argillite and medium grey siltstone/greywacke.</p> <p>443.0-444.2 Black carbonaceous argillite. Bedding/foliation at variable angles of core axis from 35 to 50°. 2-5% whitish grey bands of quartz-ankerite <1 to 2mm thick, pyritic in places.</p>	<p>Strongly carbonaceous to 446m.</p>	<p>Narrow (<1-2mm) finely pyritic seams to 2-3%.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 5
GL-90-31 Ext.

Project No. 160

Hole No. _____

Glimmer

Property _____

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
458.0	<p><u>445.0-446.0</u> Carbonaceous rubble, marbling 25cm quartz ankerite vein.</p> <p>Foliation/bedding angles to core axis are as follows: 443.0m-50°, 446.2m-80°, 449.0m-55°, 450.5m-55°, 456.5m-62°, 458.0m-65°.</p> <p><u>451.0</u> Subvertical (to 5°), S₁ foliation approximately 30° to S₀ (bedding).</p> <p>END OF HOLE</p>		<p><u>444.2-446.2</u> 1-2% coarse anhedral to euhedral pyrite grains spot core.</p>	

APPENDIX II

Assays

ASSAYING - Assay results are reported as follows:

<u>COLUMN</u>	<u>DESCRIPTION</u>
Au g/t	Initial assay if no rechecks, otherwise assay value equals the average of all other columns.
R1	Initial assay using 1/2 assay ton weight (15g) of sample for analysis.
R₂/chk	Check assay using 1 assay ton weight (30g) of sample for analysis.
M	Metallic gold assay.
Nil	No determination

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-69

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FROM	TO	WIDTH	Au g/t	Cu ppm
431.50	432.50	1.00	0.020	NIL
432.50	433.10	0.60	0.010	NIL
433.10	434.00	0.90	0.010	NIL
434.00	435.50	1.50	0.010	NIL
435.50	437.00	1.50	0.010	NIL
437.00	438.30	1.30	0.010	NIL
438.30	439.00	0.70	0.030	NIL
439.00	440.00	1.00	0.010	NIL
440.00	441.50	1.50	0.010	NIL
441.50	443.00	1.50	0.040	NIL
443.00	444.50	1.50	0.020	NIL
444.50	446.00	1.50	0.020	NIL
446.00	447.00	1.00	0.010	NIL
447.00	448.10	1.10	0.010	NIL
448.10	449.10	1.00	0.060	NIL
449.10	450.50	1.40	0.050	NIL
471.00	472.00	1.00	0.010	NIL
475.20	476.20	1.00	0.010	NIL
476.20	477.20	1.00	0.010	NIL
477.20	478.20	1.00	0.010	NIL
478.20	479.20	1.00	0.010	NIL

ASSAY LOG
 PROPERTY: GLIMMER
 HOLE No.: GL-70

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FROM	TO	WIDTH	Au g/t	R1	R2/Chk
101.30	102.80	1.50	0.040	NIL	NIL
102.80	104.30	1.50	0.020	NIL	NIL
409.90	410.40	0.50	0.010	NIL	NIL
412.60	413.10	0.50	0.010	NIL	NIL
415.00	416.00	1.00	0.090	NIL	NIL
416.00	417.30	1.30	0.360	NIL	NIL
417.30	418.30	1.00	0.010	NIL	NIL
418.30	419.30	1.00	0.010	NIL	NIL
419.30	420.30	1.00	0.080	NIL	NIL
420.30	421.30	1.00	0.130	NIL	NIL
421.30	422.30	1.00	0.150	NIL	NIL
422.30	423.30	1.00	0.040	NIL	NIL
423.30	424.30	1.00	0.040	NIL	NIL
424.30	425.30	1.00	0.190	NIL	NIL
425.30	426.30	1.00	0.340	NIL	NIL
426.30	427.30	1.00	2.030	1.920	2.130
427.30	428.30	1.00	0.490	0.670	0.580
428.30	429.30	1.00	1.680	2.440	0.910
429.30	430.30	1.00	87.990	94.790	81.700
430.30	431.30	1.00	0.380	0.340	0.410
431.30	432.30	1.00	0.020	0.030	0.010
432.30	433.30	1.00	0.020	0.010	0.030
438.50	439.50	1.00	0.010	NIL	NIL
450.70	451.50	0.80	0.030	NIL	NIL
471.50	473.20	1.70	0.010	NIL	NIL
485.00	486.00	1.00	0.010	NIL	NIL
490.50	491.50	1.00	0.020	NIL	NIL
504.80	505.80	1.00	0.020	NIL	NIL
505.80	506.80	1.00	0.020	NIL	NIL
506.80	507.80	1.00	0.010	NIL	NIL

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-71

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FROM	TO	WIDTH	Au g/t
142.00	143.10	1.10	0.010
143.10	144.10	1.00	0.010
144.10	145.10	1.00	0.010
145.10	146.10	1.00	0.010
172.10	173.10	1.00	0.010
173.10	174.10	1.00	0.010
174.10	175.10	1.00	1.110
175.10	176.10	1.00	0.150
176.10	177.10	1.00	0.010
177.10	178.10	1.00	0.010
178.10	179.10	1.00	0.030
224.40	225.40	1.00	0.010
225.40	226.40	1.00	0.010
226.40	227.40	1.00	0.010
234.60	235.60	1.00	0.010
235.60	236.60	1.00	0.010
278.00	278.70	0.70	0.710
278.70	280.40	1.70	0.080
280.40	281.60	1.20	1.150
281.60	283.00	1.40	0.020
287.30	288.30	1.00	0.010
293.90	294.90	1.00	0.010
319.00	320.00	1.00	0.020
324.70	325.70	1.00	0.010
394.40	395.40	1.00	0.010
395.40	396.60	1.20	0.070
396.60	398.00	1.40	0.010
458.60	459.60	1.00	0.010
459.60	460.60	1.00	0.010
460.60	461.60	1.00	0.010
461.60	462.50	0.90	0.010
462.50	464.00	1.50	0.010
464.00	465.00	1.00	0.010
465.00	466.00	1.00	0.010
466.00	467.00	1.00	0.060
467.00	468.50	1.50	0.620
468.50	470.00	1.50	0.030
470.00	471.50	1.50	0.020
471.50	472.50	1.00	0.010
472.50	473.50	1.00	0.070
473.50	474.50	1.00	0.070
474.50	476.00	1.50	0.020
476.00	477.50	1.50	0.010
477.50	479.00	1.50	0.010
479.00	480.10	1.10	0.020
480.10	481.00	0.90	1.390
481.00	482.00	1.00	0.010
482.00	483.50	1.50	0.020
483.50	484.00	0.50	1.050
484.00	485.00	1.00	0.010

ASSAY LOG
 PROPERTY: GLIMMER
 HOLE No.: GL-71

FROM	TO	WIDTH	Au g/t
485.00	486.50	1.50	0.040
486.50	488.00	1.50	0.030
488.00	489.50	1.50	0.010
489.50	491.00	1.50	0.020
491.00	492.50	1.50	0.020
492.50	494.00	1.50	0.010
494.00	495.50	1.50	0.010
495.50	497.10	1.60	0.010
497.10	498.50	1.40	0.110
498.50	500.00	1.50	0.030
500.00	501.30	1.30	0.010
501.30	502.30	1.00	0.010
523.40	524.40	1.00	0.070
524.40	525.60	1.20	0.010
525.60	527.00	1.40	0.010
528.60	529.60	1.00	0.010
532.90	533.90	1.00	0.010
533.90	536.00	2.10	0.010
536.00	537.50	1.50	0.010
540.70	541.70	1.00	0.010
541.70	543.30	1.60	0.010
546.50	547.50	1.00	0.010
547.50	548.50	1.00	0.040
548.50	549.50	1.00	0.010
549.50	550.60	1.10	0.010
554.00	555.30	1.30	0.010
555.30	556.30	1.00	0.010
556.30	557.00	0.70	0.010

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-72

FROM	TO	WIDTH	Au g/t
236.50	237.50	1.00	0.010
237.50	238.50	1.00	0.160
238.50	240.00	1.50	0.500
240.00	241.50	1.50	0.010
241.50	243.00	1.50	0.010
243.00	244.50	1.50	0.010
244.50	246.00	1.50	0.010
246.00	247.00	1.00	0.060
285.30	286.30	1.00	0.010
286.30	287.20	0.90	0.010
287.20	287.80	0.60	0.010
287.80	289.00	1.20	0.010
289.00	290.00	1.00	0.010
290.00	291.00	1.00	0.010
291.00	292.00	1.00	0.010
292.00	293.10	1.10	0.010
296.50	297.10	0.60	0.010
306.60	307.60	1.00	0.010
307.60	308.60	1.00	0.010
326.50	327.50	1.00	0.410
354.20	354.70	0.50	0.280
360.00	361.50	1.50	0.010
361.50	363.00	1.50	0.010
363.00	364.50	1.50	0.010
364.00	365.50	1.50	0.010
365.50	366.50	1.00	0.010
408.80	409.80	1.00	0.130
409.80	410.80	1.00	0.010
438.80	439.80	1.00	0.010
439.80	440.80	1.00	0.010
454.50	456.00	1.50	0.010
461.00	462.00	1.00	0.010
465.50	466.50	1.00	0.010
469.60	470.60	1.00	0.010
470.60	471.70	1.10	0.020
471.70	473.00	1.30	0.010
473.00	474.00	1.00	0.010
474.00	475.00	1.00	0.010
475.00	476.00	1.00	0.010
476.00	477.00	1.00	0.340
477.00	478.50	1.50	0.010
478.50	479.50	1.00	0.320
512.40	513.40	1.00	0.450
513.40	514.40	1.00	0.020
514.40	515.50	1.10	0.010
515.50	516.60	1.10	0.030
516.60	518.10	1.50	0.810
518.10	519.60	1.50	0.350
523.50	525.00	1.50	0.020
525.00	526.50	1.50	0.010

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-72

FROM	TO	WIDTH	Au g/t
526.50	528.00	1.50	0.080
528.00	529.50	1.50	0.010
529.50	531.00	1.50	0.010
531.00	532.50	1.50	0.010
532.50	534.00	1.50	0.050
534.00	534.70	0.70	0.040
534.70	536.00	1.30	0.040

FROM	TO	WIDTH	Au g/t
49.00	50.00	1.00	0.220
50.00	51.00	1.00	0.010
51.00	52.00	1.00	0.010
52.00	53.00	1.00	0.810
61.20	62.00	0.80	0.020
64.00	65.00	1.00	0.040
67.00	68.00	1.00	0.010
68.00	69.60	1.60	0.020
69.60	71.00	1.40	0.020
71.00	72.50	1.50	0.260
72.50	74.00	1.50	0.120
74.00	75.50	1.50	0.270
75.50	77.00	1.50	0.800
77.00	78.00	1.00	0.130
121.90	122.90	1.00	0.010
122.90	123.90	1.00	0.010
123.90	124.90	1.00	0.010
124.90	125.90	1.00	0.010
160.00	161.00	1.00	0.010
161.00	162.00	1.00	0.010
173.30	174.30	1.00	0.010
174.30	175.30	1.00	0.010
191.50	192.50	1.00	0.010
192.50	193.50	1.00	0.010
193.50	194.50	1.00	0.010
194.50	195.50	1.00	0.010
195.50	197.00	1.50	0.010
197.00	198.50	1.50	0.010
198.50	199.50	1.00	0.010
202.00	203.00	1.00	0.010
203.00	204.50	1.50	0.010
204.50	206.00	1.50	0.010
208.50	210.00	1.50	0.010
221.00	222.50	1.50	0.010
222.50	224.00	1.50	0.020
229.00	230.00	1.00	0.010
230.00	231.00	1.00	0.010
231.00	232.00	1.00	0.010
236.50	237.50	1.00	0.010
237.50	239.00	1.50	0.010
239.00	240.50	1.50	0.010
240.50	241.50	1.00	0.010
251.50	252.50	1.00	0.010
252.50	254.00	1.50	0.010
254.00	255.50	1.50	0.030
255.50	256.50	1.00	0.010
256.50	257.50	1.00	0.010
257.50	258.50	1.00	0.070
258.50	260.10	1.60	0.090
260.10	261.00	0.90	0.050

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-73

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FROM	TO	WIDTH	Au g/t
261.00	262.30	1.30	0.020

ASSAY LOG

PROPERTY: GLIMMER

HOLE No.: GL-74

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FROM	TO	WIDTH	Au g/t
47.40	48.40	1.00	0.010
48.40	49.40	1.00	0.010
57.90	58.90	1.00	0.010
58.90	59.90	1.00	0.010
74.50	75.60	1.10	0.010
112.90	113.60	0.70	0.020
113.60	115.00	1.40	0.080
152.00	153.10	1.10	0.010
153.10	154.10	1.00	0.010
171.70	172.70	1.00	0.010
172.70	173.70	1.00	0.010
173.70	175.20	1.50	0.120
175.20	176.70	1.50	0.020
176.70	177.70	1.00	1.380
177.80	179.00	1.20	0.020
179.00	180.30	1.30	0.300
180.30	181.30	1.00	0.230
181.30	182.50	1.20	0.080
182.50	183.00	0.50	0.260
183.00	184.50	1.50	0.210
184.50	185.50	1.00	0.230
185.50	186.50	1.00	0.020
186.50	187.50	1.00	0.040
187.50	188.80	1.30	0.010
190.00	191.00	1.00	0.010
191.00	191.50	0.50	0.010
308.00	309.00	1.00	0.010
312.50	314.00	1.50	0.010
314.00	315.50	1.50	0.010
315.50	317.00	1.50	0.010
317.00	318.50	1.50	0.010
318.50	320.00	1.50	0.010
320.00	321.50	1.50	0.010
321.50	322.50	1.00	0.010
322.50	323.50	1.00	0.010
323.50	324.70	1.20	0.010
324.70	326.00	1.30	0.010
326.00	327.50	1.50	0.010
327.50	329.00	1.50	0.010
329.00	330.50	1.50	0.010
330.50	332.00	1.50	0.010
332.00	333.50	1.50	0.010
333.50	335.00	1.50	0.010
340.30	341.30	1.00	0.040
341.30	342.30	1.00	0.040
342.30	343.30	1.00	0.040
346.40	347.50	1.10	0.010
347.50	348.50	1.00	0.520
348.50	349.50	1.00	0.010
406.00	407.20	1.20	0.040

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-74

FROM	TO	WIDTH	Au g/t
433.60	434.60	1.00	0.010
434.60	435.60	1.00	0.010

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-75

FROM	TO	WIDTH	g/t AU
136.50	137.50	1.00	0.020
137.50	138.50	1.00	0.010
138.50	139.50	1.00	0.010
139.50	140.70	1.20	0.010
140.70	141.70	1.00	0.010
176.40	177.40	1.00	0.010
177.40	178.40	1.00	0.040

=====

FROM	TO	WIDTH	Au g/t
33.00	339.40	306.40	0.010
38.90	39.60	0.70	0.010
39.60	40.30	0.70	0.010
55.00	55.70	0.70	0.010
55.70	56.40	0.70	0.010
56.40	57.00	0.60	0.010
57.00	57.70	0.70	0.020
57.70	58.50	0.80	0.010
58.50	59.50	1.00	0.020
59.50	60.50	1.00	0.040
60.50	61.50	1.00	0.010
66.90	68.00	1.10	0.020
68.00	69.00	1.00	0.020
69.00	70.00	1.00	0.030
70.00	71.00	1.00	0.010
71.00	72.00	1.00	0.010
72.00	73.00	1.00	0.010
73.00	74.00	1.00	0.010
74.00	74.80	0.80	0.080
76.40	77.40	1.00	0.010
77.40	78.40	1.00	0.010
78.40	79.40	1.00	0.010
87.70	88.40	0.70	0.010
88.40	89.40	1.00	0.010
89.40	90.40	1.00	0.070
90.40	91.40	1.00	0.030
91.40	92.40	1.00	0.010
92.40	93.00	0.60	0.010
115.00	116.00	1.00	0.010
116.00	117.00	1.00	0.010
117.00	118.00	1.00	0.020
118.00	119.20	1.20	0.020
200.10	201.20	1.10	0.010
201.20	202.20	1.00	0.030
202.20	203.30	1.10	0.020
208.80	210.00	1.20	0.010
210.00	211.20	1.20	0.010
250.10	251.10	1.00	0.010
251.10	252.10	1.00	0.010
330.00	331.00	1.00	0.010
331.00	332.00	1.00	0.010
337.40	338.40	1.00	0.010
338.40	339.40	1.00	0.010
347.40	348.40	1.00	0.010
348.40	349.40	1.00	0.010
391.60	392.60	1.00	0.010
401.00	402.50	1.50	0.010
402.50	404.00	1.50	0.110
434.00	435.50	1.50	0.010
439.80	440.80	1.00	0.270

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: SL-31

FROM	TO	WIDTH	Au g/t
440.80	441.80	1.00	0.120
441.80	442.80	1.00	0.420
442.80	444.50	1.70	0.010
444.50	445.50	1.00	0.010
445.50	446.00	0.50	0.010
446.00	447.00	1.00	0.010

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-66

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FROM	TO	WIDTH	g/t Au
108.70	109.70	1.00	0.005
127.60	128.20	0.60	0.005
130.30	131.00	0.70	0.110
131.00	132.10	1.10	0.810
140.30	141.20	0.90	0.005
153.30	153.90	0.60	0.005
172.70	173.20	0.50	0.005
182.20	183.30	1.10	0.020
202.80	203.30	0.50	0.005
209.00	209.80	0.80	0.350
209.80	210.30	0.50	0.250
210.30	211.30	1.00	0.030
211.30	212.30	1.00	0.040
215.90	217.00	1.10	0.005
217.00	218.00	1.00	0.005
219.80	220.50	0.70	0.005
233.40	233.90	0.50	0.070
244.50	245.50	1.00	0.005
245.50	246.50	1.00	0.005
246.50	248.00	1.50	0.005
248.00	249.50	1.50	0.005
249.50	251.00	1.50	0.005
251.00	252.50	1.50	0.005
252.50	254.00	1.50	0.005
254.00	255.50	1.50	0.005
255.50	257.00	1.50	0.005
257.00	258.50	1.50	0.020
258.50	260.00	1.50	0.005
260.00	261.50	1.50	0.005
261.50	263.00	1.50	0.030
263.00	264.50	1.50	0.030
264.50	266.00	1.50	0.005
266.00	267.00	1.00	0.080
267.00	268.00	1.00	0.060
273.00	273.80	0.80	0.005
275.70	276.70	1.00	0.040
276.70	278.20	1.50	0.020
278.20	279.50	1.30	0.005
279.50	281.00	1.50	1.400
281.00	282.50	1.50	0.005
282.50	284.00	1.50	0.005
284.00	285.50	1.50	0.005
285.50	286.50	1.00	0.030
286.50	287.50	1.00	0.085
295.60	297.10	1.50	0.040
297.10	298.10	1.00	0.005
298.10	299.10	1.00	0.005
308.10	308.60	0.50	0.005
329.90	330.60	0.70	0.005

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-67

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FROM	TO	WIDTH	g/t Au
76.00	77.00	1.00	0.120
77.00	78.00	1.00	0.005
78.00	79.00	1.00	0.005
79.00	80.20	1.20	0.005
80.20	81.50	1.30	0.005
81.50	83.00	1.50	0.005
85.00	86.00	1.00	0.040
86.00	87.00	1.00	0.005
87.00	88.00	1.00	0.005
88.00	89.00	1.00	0.005
89.00	90.00	1.00	0.005
90.00	91.00	1.00	0.005
91.00	92.00	1.00	0.005
92.00	93.00	1.00	0.005
93.00	94.00	1.00	0.005
94.00	95.00	1.00	0.005
95.00	96.10	1.10	0.090
96.10	96.90	0.80	0.110
96.90	98.00	1.10	0.005
98.00	99.50	1.50	0.005
99.50	101.00	1.50	0.005
101.00	102.50	1.50	0.005
102.50	104.00	1.50	0.005
104.00	105.50	1.50	0.005
105.50	107.00	1.50	0.005
107.00	108.50	1.50	0.005
108.50	110.00	1.50	0.005
110.00	111.50	1.50	0.005
111.50	113.00	1.50	0.030
113.00	114.50	1.50	0.005
114.50	116.00	1.50	0.005
116.00	117.50	1.50	0.005
117.50	119.00	1.50	0.005
119.00	120.50	1.50	0.005
120.50	122.00	1.50	0.030
122.00	123.50	1.50	0.005
123.50	125.00	1.50	0.060
125.00	126.50	1.50	0.050
126.50	127.00	0.50	0.030
127.00	128.00	1.00	0.005
128.00	129.50	1.50	0.005
129.50	131.00	1.50	0.005

ASSAY LOG
PROPERTY: GLIMMER
HOLE No.: GL-68

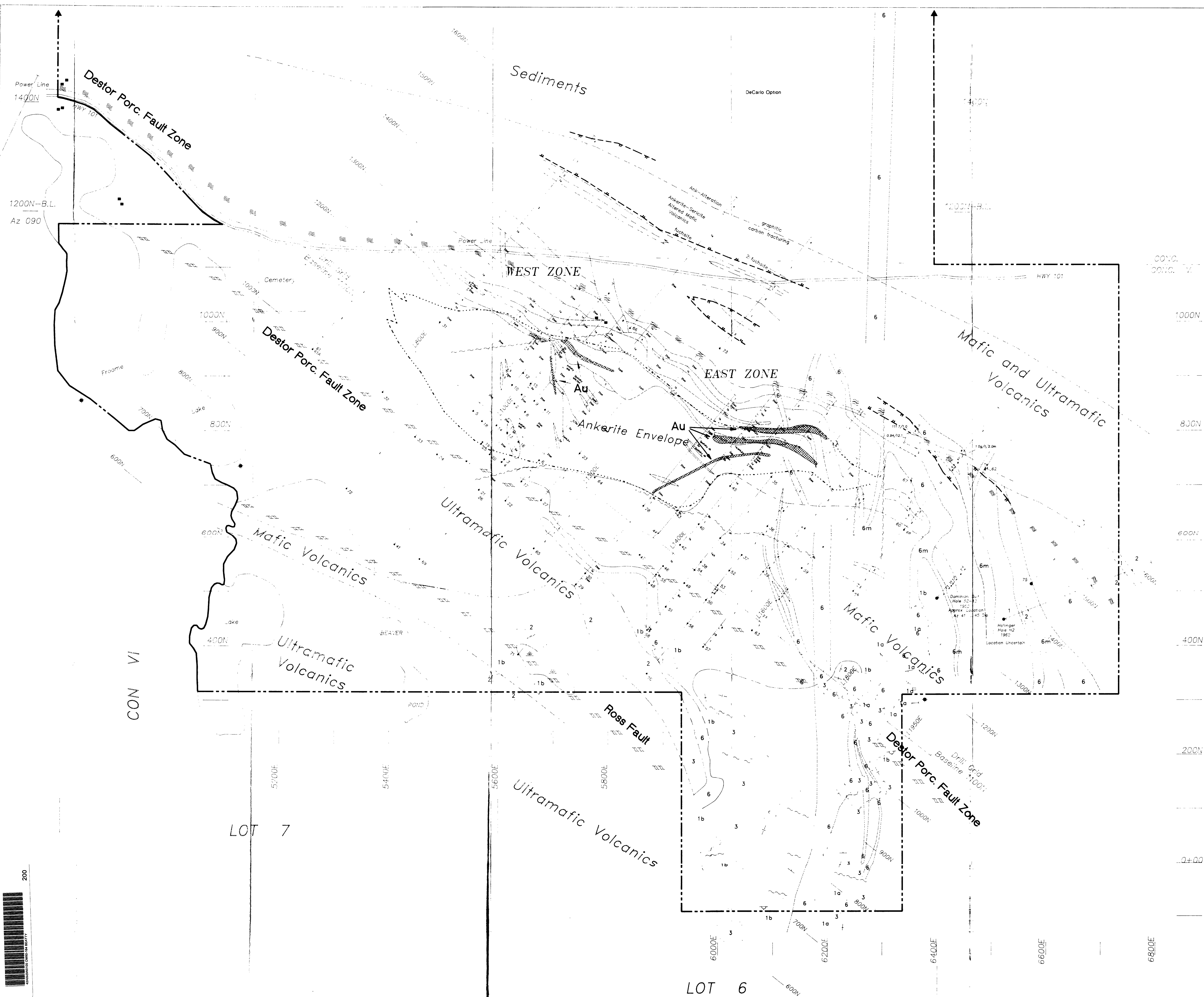
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FROM	TO	WIDTH	g/t Au
151.00	152.00	1.00	0.025
152.00	153.50	1.50	0.005
153.50	155.00	1.50	0.004
155.00	156.00	1.00	0.245
156.00	157.00	1.00	0.045
157.00	158.00	1.00	0.200
158.00	159.00	1.00	0.925
159.00	160.00	1.00	1.200
160.00	161.10	1.10	0.030
161.10	162.50	1.40	0.004
162.50	164.00	1.50	0.004
164.00	165.00	1.00	0.260
165.00	166.10	1.10	0.030
166.10	167.00	0.90	0.050
167.00	168.50	1.50	0.615
168.50	170.00	1.50	0.045
170.00	171.50	1.50	0.505
171.50	173.00	1.50	0.035
173.00	174.50	1.50	0.090
174.50	176.00	1.50	0.390
176.00	177.50	1.50	0.004
177.50	179.00	1.50	0.030
179.00	180.50	1.50	0.010

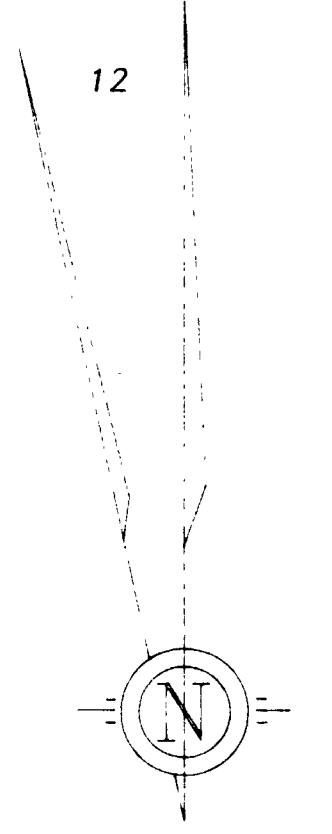
ASSAY LOG
 PROPERTY: GLIMMER
 HOLE No.: GL-69

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FROM	TO	WIDTH	Au g/t	Cu ppm
237.80	238.80	1.00	0.020	NIL
238.80	239.80	1.00	0.010	NIL
239.80	241.00	1.20	0.010	NIL
241.00	242.00	1.00	0.030	NIL
242.00	242.80	0.80	0.460	NIL
242.80	243.80	1.00	0.190	NIL
243.80	245.00	1.20	0.010	NIL
245.00	246.50	1.50	0.010	NIL
246.50	247.50	1.00	0.010	NIL
247.50	248.50	1.00	0.010	NIL
248.50	249.50	1.00	0.030	NIL
249.50	250.40	0.90	0.150	NIL
250.40	252.00	1.60	1.520	NIL
252.00	253.00	1.00	0.200	NIL
253.00	254.50	1.50	0.020	NIL
254.50	255.50	1.00	0.010	NIL
268.70	269.78	1.08	0.270	NIL
271.30	272.80	1.50	0.010	NIL
278.00	279.00	1.00	1.030	NIL
279.00	280.50	1.50	0.020	NIL
280.50	281.50	1.00	0.010	NIL
281.50	282.50	1.00	0.030	NIL
316.70	317.70	1.00	0.010	NIL
317.70	318.70	1.00	0.010	NIL
358.20	359.20	1.00	0.010	NIL
371.30	372.80	1.50	0.030	NIL
372.80	374.00	1.20	0.010	NIL
380.80	381.80	1.00	0.020	NIL
381.80	382.80	1.00	0.010	NIL
382.80	383.80	1.00	0.010	NIL
383.80	385.00	1.20	0.010	NIL
385.00	386.00	1.00	0.010	NIL
386.00	387.00	1.00	0.010	NIL
387.00	388.00	1.00	0.010	NIL
403.00	404.00	1.00	0.010	NIL
404.00	405.50	1.50	0.040	NIL
405.50	407.00	1.50	0.030	NIL
407.00	408.50	1.50	0.010	NIL
408.50	410.00	1.50	0.010	NIL
421.00	422.00	1.00	0.020	1020.000
422.00	423.10	1.10	0.010	287.000
423.10	424.00	0.90	0.030	2830.000
424.00	425.00	1.00	0.030	1950.000
425.00	426.00	1.00	0.010	525.000
426.00	427.00	1.00	0.030	957.000
427.00	428.00	1.00	0.010	621.000
428.00	428.50	0.50	0.020	906.000
428.50	429.50	1.00	0.010	528.000
429.50	430.50	1.00	0.010	626.000
430.50	431.50	1.00	0.020	532.000



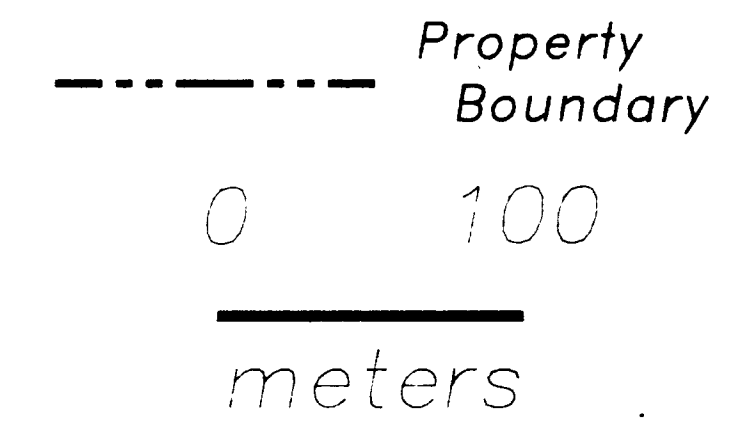
BEATTY TWP.
HISLOP TWP.



Legend

- 1 Mafic Volcanics
 - a) massive
 - b) pillowed
 - c) amygdaloidal
- 2 Ultramafic
- 3 Diorite/Gabbro
- 4 Sediments
 - a) greywacke
 - b) siltstone
 - c) argillite
- 5 Porphyry
- 6 Diabase

NOTE: Geology and mineralization projected up dip to the -15m level. Diabase dykes are from outcrop data and interpreted from magnetics.



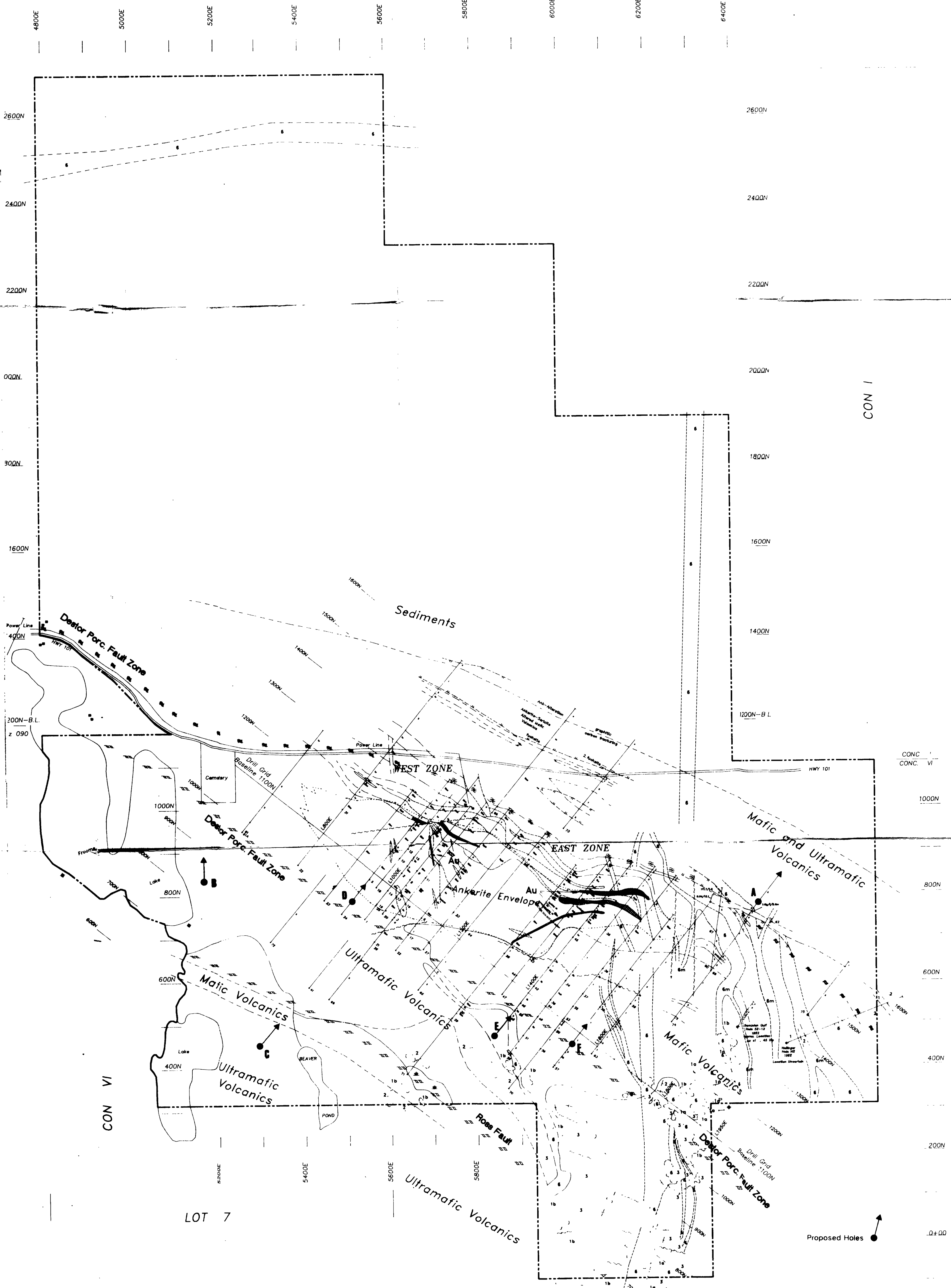
MAP 1

Revised Feb 07/91 June 05/91 June 21/91 Feb/92 Nov/92 Feb/93	GLIMMER PROPERTY GEOLOGY and DRILL PLAN	
PROJECT:	GLIMMER 160	
Proj. #:	N.T.S.:	42-A-9
Dwg #:	Surveyed by:	Date: MAY 30, 1990
2GL-CP1	Drawn by: L.A.W.	Scale:
noranda EXPLORATION CO. LTD.		



LOT 7

LOT 6



BEATTY TWP.
HISLOP TWP.

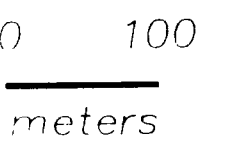


Legend

- 1 Mafic Volcanics a) massive
b) pillowed
c) amygdaloidal
- 2 Ultramafic
- 3 Diorite/Gabbro
- 4 Sediments a) graywacke
b) siltstone
c) argillite
- 5 Porphyry
- 6 Diabase

NOTE: Geology and mineralization projected
up to the -15m level. Diabase dykes
are from outcrop data and interpreted
from magnetics.

Property
Boundary



CON VI

CON VI

Revised Feb 27/91 June 27/91 Feb 27/92 Apr 27/92 Apr 27/92	GLIMMER PROPERTY GEOLOGY and DRILL PLAN
PROJECT Proj # Surveyed by Dwg # ZGL-CP1	GLIMMER 180 N.T.S. 42-A-9 Date: MAY 30, 1990 Scale Drawn by L.A.W.
noranda EXPLORATION CO. LTD.	



J. Bohm

Vertical Scale
1cm: 200mT



1200N

1400N

1600N

1800N

Mag Profile

L1700E/1400N
GL-60

L1655E/1470N
GL-67

Note: This section is 30 deg. west of grid north.

010 →

0

-200

1800N

bc,fe-cal

2 cal-serp-talc
GL92-74

LEGEND

- | | | |
|---|----------------------------|-----------------------------|
| 6 | Diabase | a) feldspar porphyry |
| 5 | Felsic Intrusive Rocks | b) quartz feldspar porphyry |
| | | c) syenite |
| 4 | Sediments | a) greywacke |
| | | b) conglomerate |
| 3 | Mafic Intrusive Rocks | a) massive |
| | | b) pillowed |
| | | c) amygdaloidal |
| | | d) variolitic |
| 2 | Komatiitic Volcanics | a) ultramafic (peridotitic) |
| | | b) mafic (basaltic) |
| 1 | Tholeiitic Mafic Volcanics | a) massive |
| | | b) pillowed |
| | | c) amygdaloidal |
| | | d) variolitic |

ABBREVIATIONS

- bx - breccia
- f - fault
- frac - fractured
- leux - leucoxene
- mag - magnetic
- V.G. - visible gold
- q.v. - quartz vein
- sfx - spinifex

ALTERATION

- ank - ankerite
- cal - calcite
- chl - chlorite
- ep - epidote
- fs - fushsite
- gcb - green carbonate
- gf - graphite
- ser - sericite
- sil - silicification
- tour - tourmaline
- tsa - talc-serpentine

SYMBOLS

- - - - - foliation
- - - - - geological contact
- qcb limit
- 2.0/5.6 Au g/t/m
- bar scale 1cm=4g/t Au
- cut off 12g

ANKERITE ALTERATION



△ Breccia Zone

1600N

1400N

1200N

Note: Grid coordinate 1700E/1400N is accurate.
Other coordinates are not.

100 Meters

GLIMMER 160

SECTION 17E
SCALE: 1/1000

DDH GL92-60,67

Dec 3/92

2GL-17E

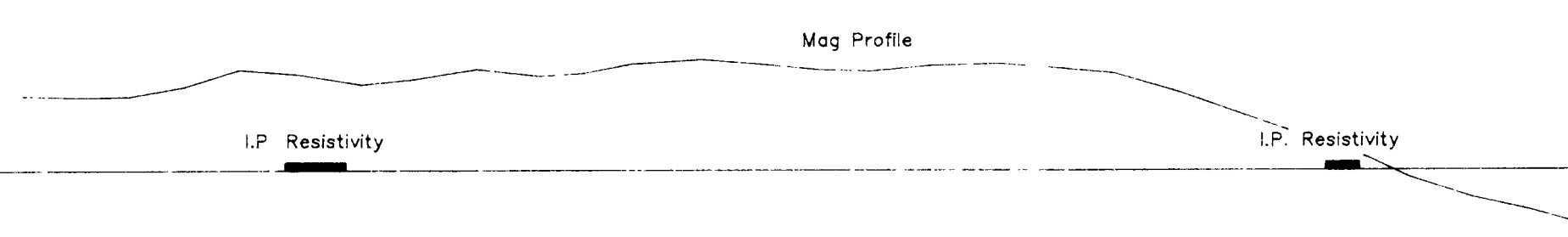
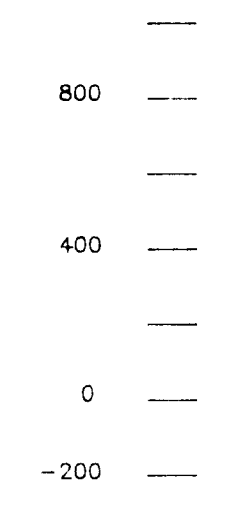
NORANDA EXPLORATION

220

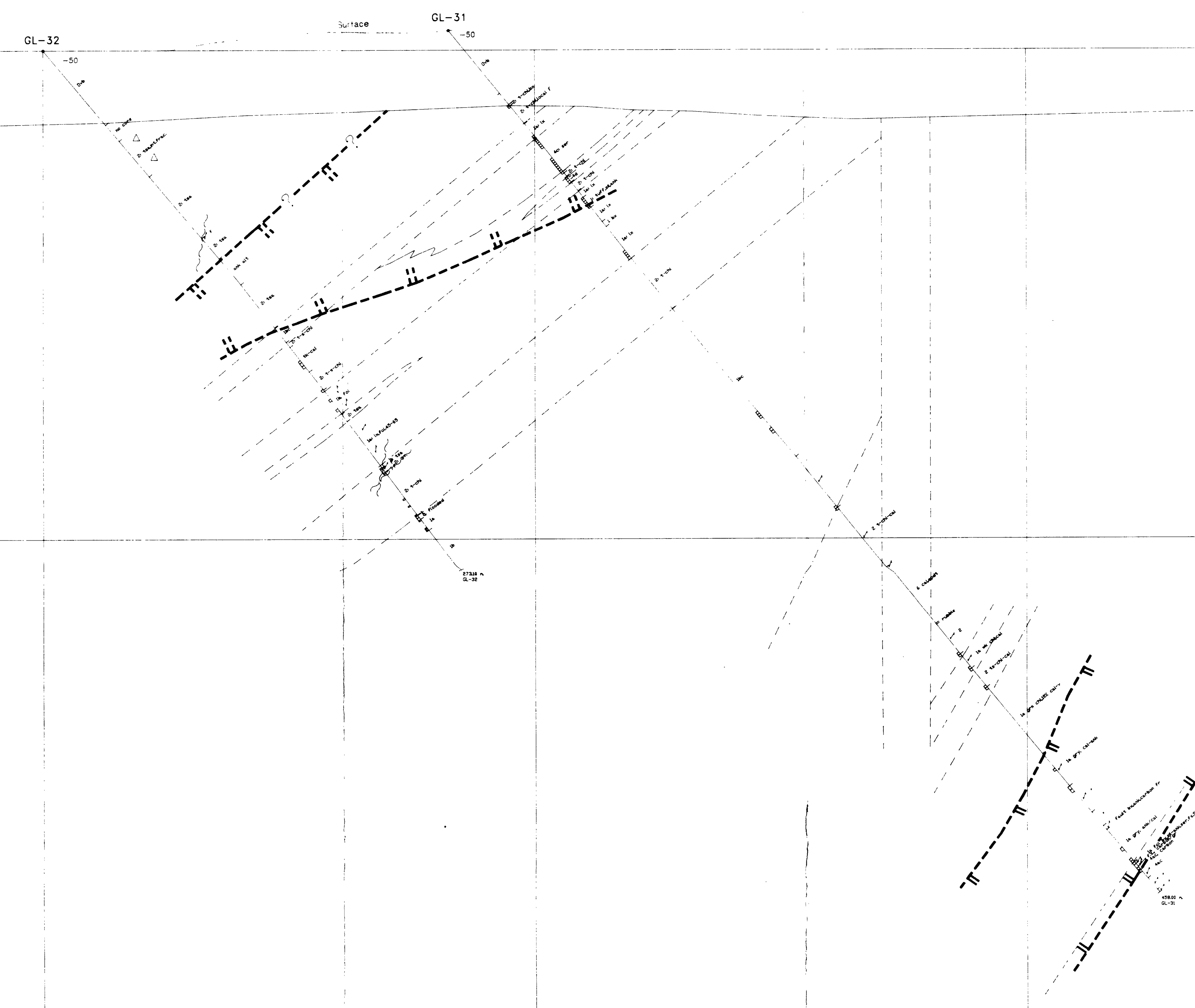


2GL-17E
02/02/93

Vertical Scale
Tom. 200mT



040 →



LEGEND

- 6 Diabase
- 5 felsic Intrusive Rocks
 - a) felspar porphyry
 - b) quartz felspar porphyry
 - c) syenite
- 4 Sediments:
 - a) greywacke
 - b) conglomerate
- 3 Mafic Intrusive Rocks
 - a) massive
 - b) pillowed
 - c) amygdaloidal
 - d) variolitic
- 2 Komatiitic Volcanics
 - a) ultramafic (peridotitic)
 - b) mafic (basaltic)
- 1 Tholeiitic Mafic Volcanics
 - a) massive
 - b) pillowed
 - c) amygdaloidal
 - d) variolitic

ABBREVIATIONS

- bx - breccia
- f - fault
- frac - fractured
- lex - leucitane
- mag - magnetic
- V.G. - visible gold
- q.v. - quartz vein
- sfx - spinifer

SYMBOLS

- foliation
- fault
- geological contact
- aqb limit
- 2.0/5.6
- Au g./t/m
- bar scale 1cm=4g./t Au
- cut off 12g

ALTERATION

- ank - ankerite
- cal - calcite
- chl - chlorite
- ep - epidote
- fs - fushite
- gab - green carbonate
- gf - graphite
- ser - sericite
- sil - silicification
- tour - tourmaline
- tso - talc-serpentine

ANKERITE ALTERATION



△ Breccia Zone

GLIMMER 160

SECTION 800E
SCALE: 1/1000

DDH 31 32

Dec 3/92

20L-800

NORANDA EXPLORATION

100 Meters

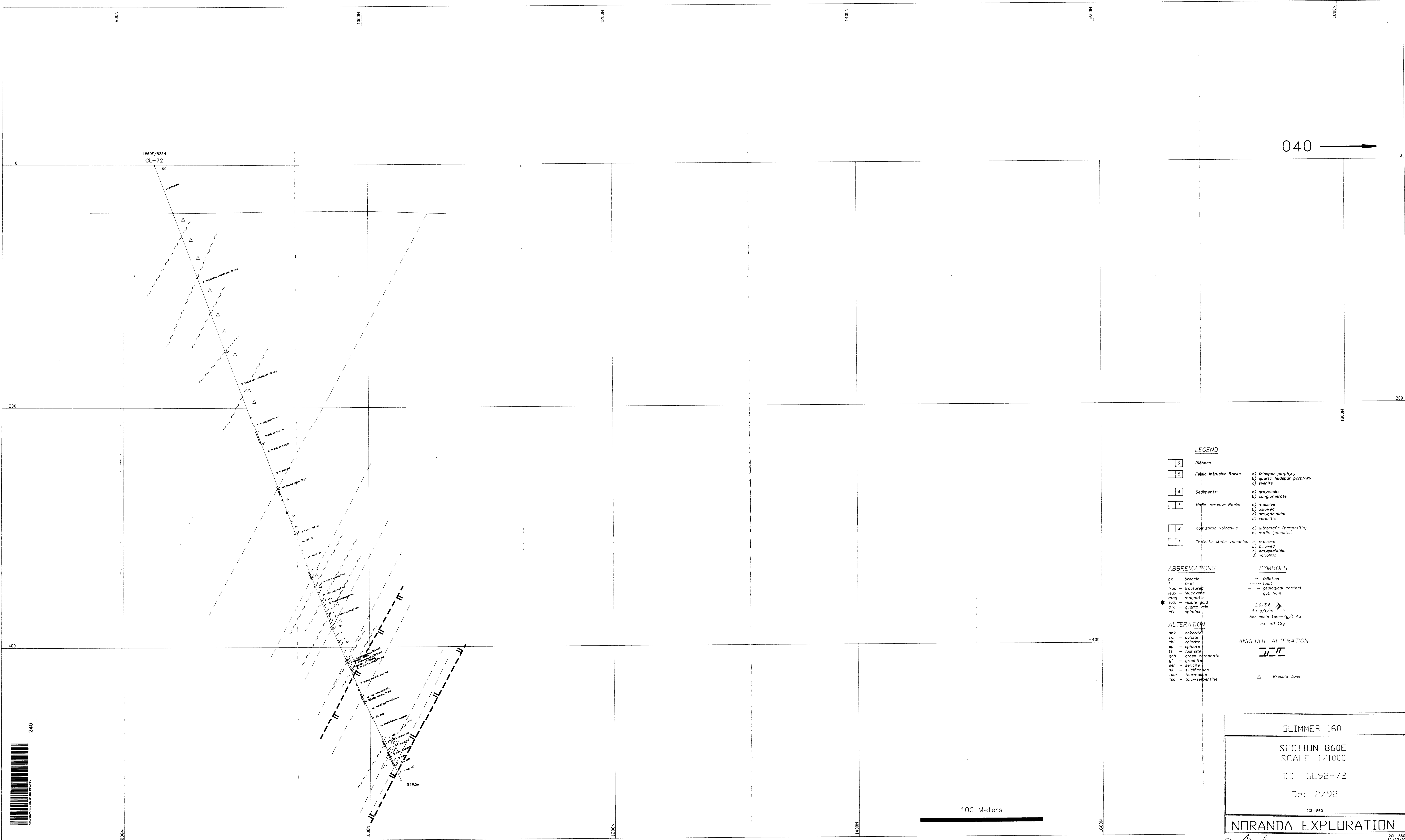


230

J. L. ...

20L-800
02/02/93

040



L860E/825N
GL-72

- LEGEND**
- 6 Diabase
 - 5 Felsic intrusive Rocks
 - a) feldspar porphyry
 - b) quartz feldspar porphyry
 - c) syenite
 - 4 Sediments:
 - a) greywacke
 - b) conglomerate
 - 3 Mafic intrusive Rocks
 - a) massive
 - b) pillowed
 - c) amygdaloidal
 - d) variolitic
 - 2 Komatiitic Volcanics
 - a) ultramafic (peridotitic)
 - b) mafic (basaltic)
 - 1 Inhehntic Mafic volcanics
 - a) massive
 - b) pillowed
 - c) amygdaloidal
 - d) variolitic

- ABBREVIATIONS**
- bx - breccia
 - f - fault
 - frac - fracture
 - leux - leucovexite
 - mag - magnetite
 - V.G. - visible gold
 - q.v. - quartz vein
 - stx - spinifex
- SYMBOLS**
- foliation
 - - - fault
 - - - geological contact
 - aqb limit
- 2.0/5.6
Au g/t/m
bar scale 1cm=4g/t Au
cut off 12g

- ALTERATION**
- ank - ankerite
 - cal - calcite
 - chl - chlorite
 - ep - epidote
 - fs - fushite
 - gcb - green carbonate
 - gf - graphite
 - ser - sericite
 - sil - silicification
 - tour - tourmaline
 - tsa - talc-serpentine

ANKERITE ALTERATION

△ Breccia Zone

GLIMMER 160

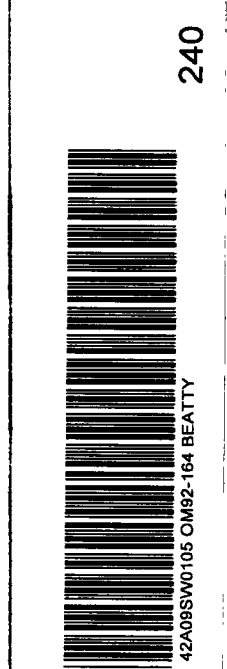
SECTION 860E
SCALE: 1/1000

DDH GL92-72

Dec 2/92

20L-860

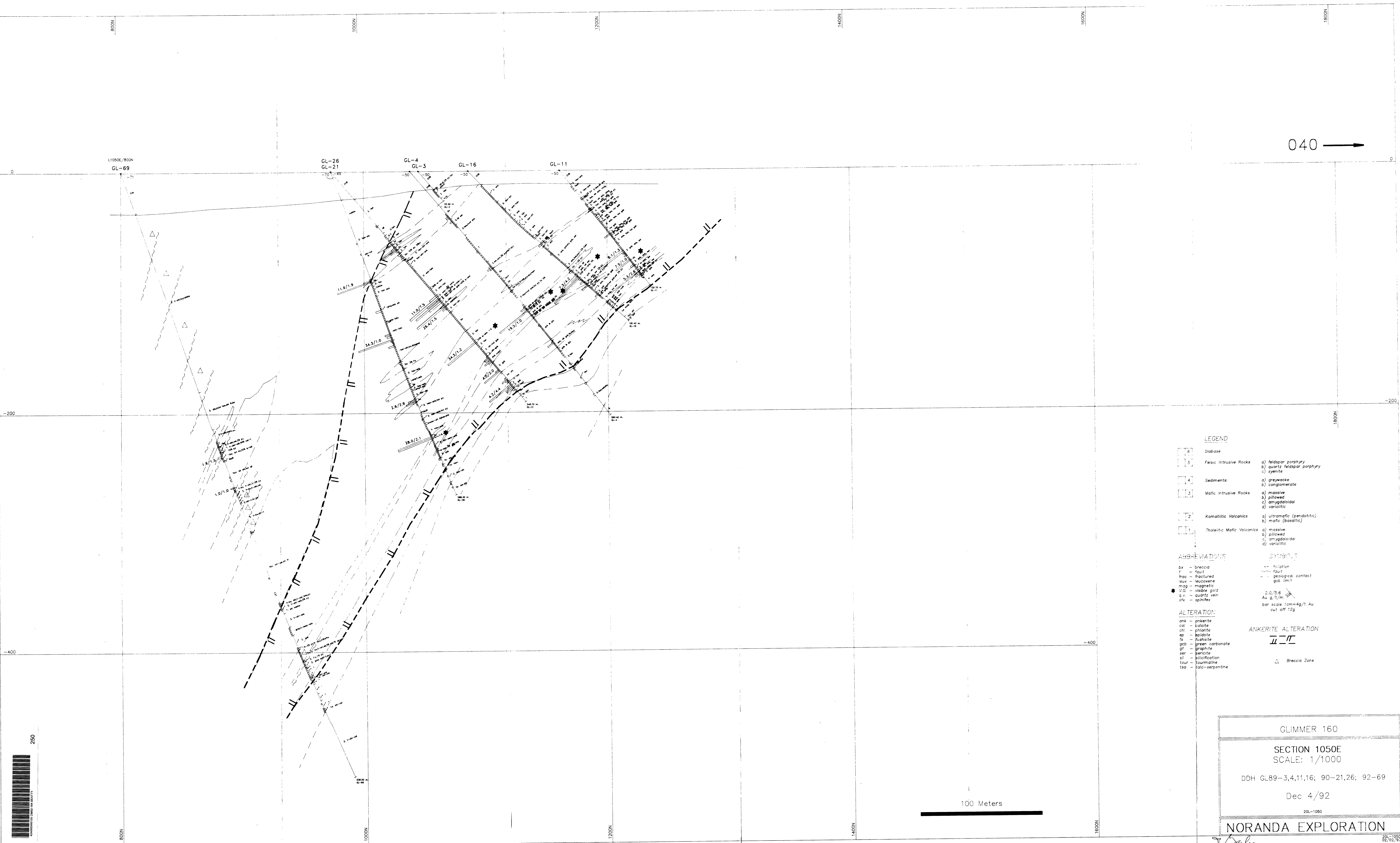
NORANDA EXPLORATION



100 Meters

J. Anker

040 →



LEGEND

[Symbol]	Diabase	a) feldspar porphyry
[Symbol]	Felsic Intrusive Rocks	b) quartz feldspar porphyry
[Symbol]		c) syenite
[Symbol]	Sediments:	a) graywacke
[Symbol]		b) conglomerate
[Symbol]	Mafic Intrusive Rocks	a) massive
[Symbol]		b) pillowed
[Symbol]		c) amygdaloidal
[Symbol]		d) variolitic
[Symbol]	Komatiitic Volcanics	a) ultramafic (peridotitic)
[Symbol]		b) mafic (basaltic)
[Symbol]	Tholeiitic Mafic Volcanics	a) massive
[Symbol]		b) pillowed
[Symbol]		c) amygdaloidal
[Symbol]		d) variolitic

ABBREVIATIONS

bx	- breccia	---	foliation
f	- fault	- - -	geological contact
frac	- fractured	- - -	gcb limit
lax	- leucocrine		
mag	- magnetic		
V.C.	- visible gold	2.0, 5.6	
q.v.	- quartz vein	Au 9.1/m	
sk	- spinifex	bar scale 1cm=4g/1 Au	
		cut off 12g	

ALTERATION

ank	- ankerite		ANKERITE ALTERATION
cal	- calcite		
chl	- chlorite		
ep	- epidote		
fs	- fuchsite		
gcb	- green carbonate		
gf	- graphite		
ser	- sericite		
sil	- silicification		
tour	- tourmaline		
tss	- talc-serpentine		

△ Breccia Zone

100 Meters

GLIMMER 160

SECTION 1050E
SCALE: 1/1000

DDH GL89-3,4,11,16; 90-21,26; 92-69

Dec 4/92

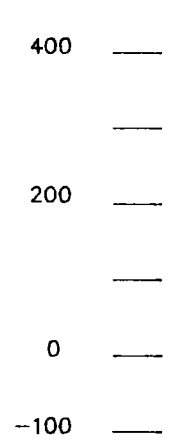
29L-1050

NORANDA EXPLORATION



J. Dalin

Vertical Scale
1cm=100mT

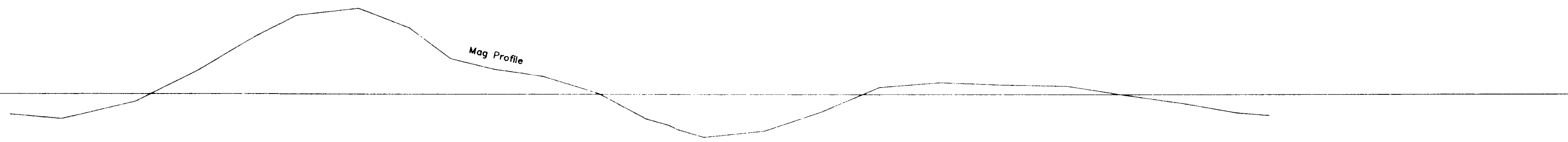


1200N

1400N

1600N

1800N



L1075E/1375N
GL-66

-50

040 →

-200

1800N

-400

1200N

1400N

1600N

LEGEND

6	Diabase	
5	Felsic Intrusive Rocks	a) feldspar porphyry b) quartz feldspar porphyry c) syenite
4	Sediments:	a) greywacke b) conglomerate
3	Mafic Intrusive Rocks	a) massive b) pillowed c) amygdaloidal d) variolitic
2	Komatiitic Volcanics	a) ultramafic (peridotitic) b) mafic (basaltic)
1	Tholeiitic Mafic Volcanics	a) massive b) pillowed c) amygdaloidal d) variolitic

ABBREVIATIONS

bx - breccia
f - fault
frac - fractured
lex - leucovene
mag - magnetic
V.G. - visible gold
q.v. - quartz vein
sfx - spinifex

ALTERATION

ank - ankerite
cal - calcite
chl - chlorite
ep - epidote
fs - fushite
gcb - green carbonate
gf - graphite
ser - sericite
sil - silicification
tour - tourmaline
tsa - talc-serpentine

SYMBOLS

-- foliation
- - - fault
- - - geological contact
gcb limit
2.0/5.6
Au g/t/m
bar scale 1cm=4g/t Au
cut off 12g

ANKERITE ALTERATION



GLIMMER 160

SECTION 1075E
SCALE: 1/1000

DDH GL92-66

Dec 2/92

2GL-1075

NORANDA EXPLORATION

J. G. G.

2GL-1075
02/02/93



260

UNIVERSITY OF GUELPH LIBRARY

100 Meters



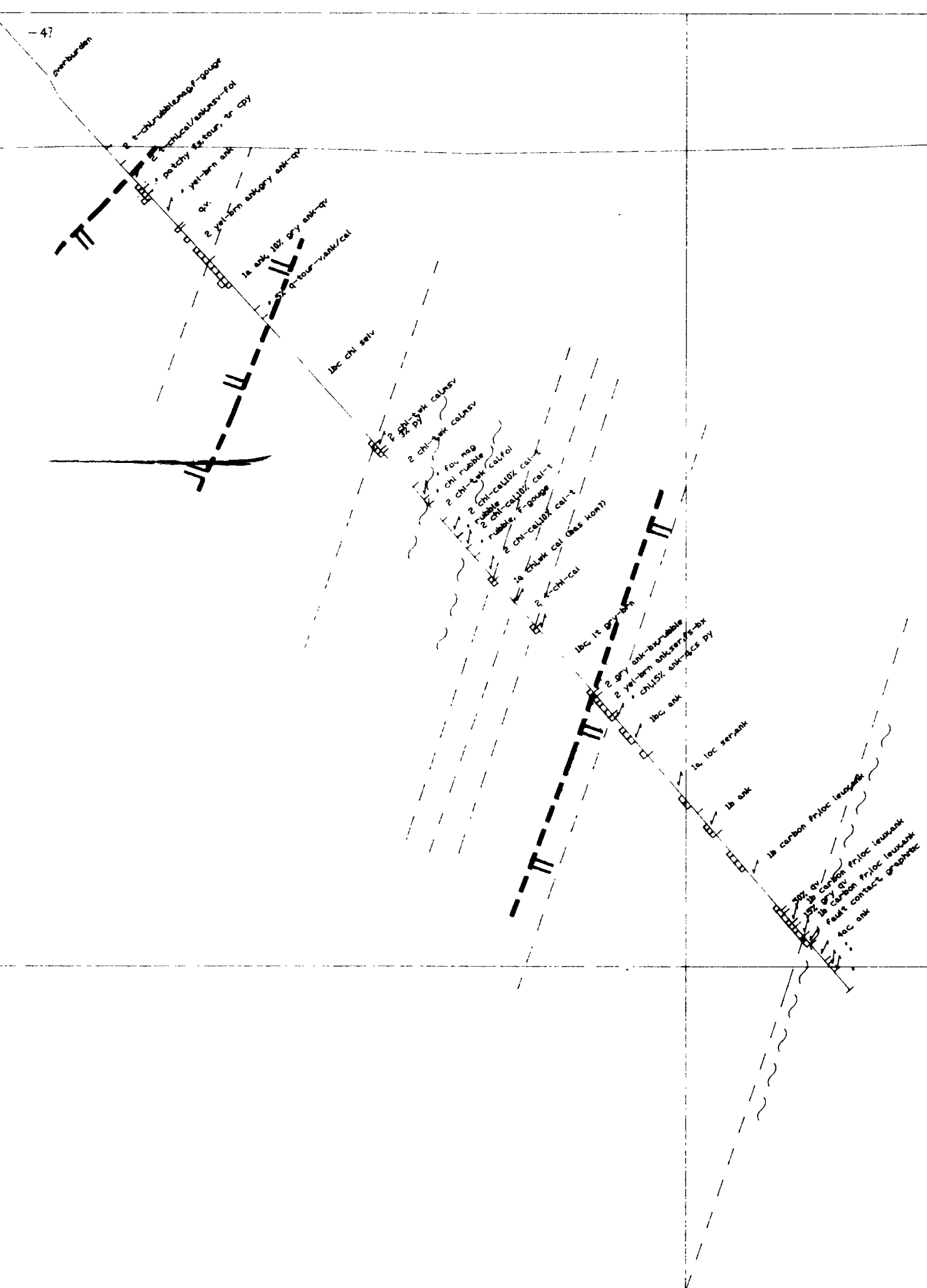
Vertical Scale
1cm: 200mT
Datum=58,000mT



040 →

Mag Profile

L1225E/1451N
GL-73



LEGEND

- | | | | |
|-------|----------------------------|-----------------------------|--|
| [6] | Diabase | | |
| [5] | Felsic Intrusive Rocks | a) feldspar porphyry | |
| | | b) quartz feldspar porphyry | |
| | | c) syenite | |
| [4] | Sediments: | a) greywacke | |
| | | b) conglomerate | |
| [3] | Mafic Intrusive Rocks | a) massive | |
| | | b) pillowed | |
| | | c) amygdaloidal | |
| | | d) variolitic | |
| [2] | Komatiitic Volcanics | a) ultramafic (peridotitic) | |
| | | b) mafic (basaltic) | |
| [1] | Tholeiitic Mafic Volcanics | a) massive | |
| | | b) pillowed | |
| | | c) amygdaloidal | |
| | | d) variolitic | |

ABBREVIATIONS

- bx - breccia
- f - fault
- frac - fractured
- mag - magnetic
- v.g. - visible gold
- q.v. - quartz vein
- stx - spinifex

ALTERATION

- ank - ankerite
- cal - calcite
- chl - chlorite
- ep - epidote
- fs - fushite
- gcb - green carbonate
- gf - graphite
- ser - sericite
- sil - silicification
- tour - tourmaline
- tsa - talc-serpentine

SYMBOLS

- foliation
- fault
- geological contact
- fault
- 2.0/5.6 Au g³/m
- bar scale 1cm=4g/t Au
- cut off 12g

ANKERITE ALTERATION

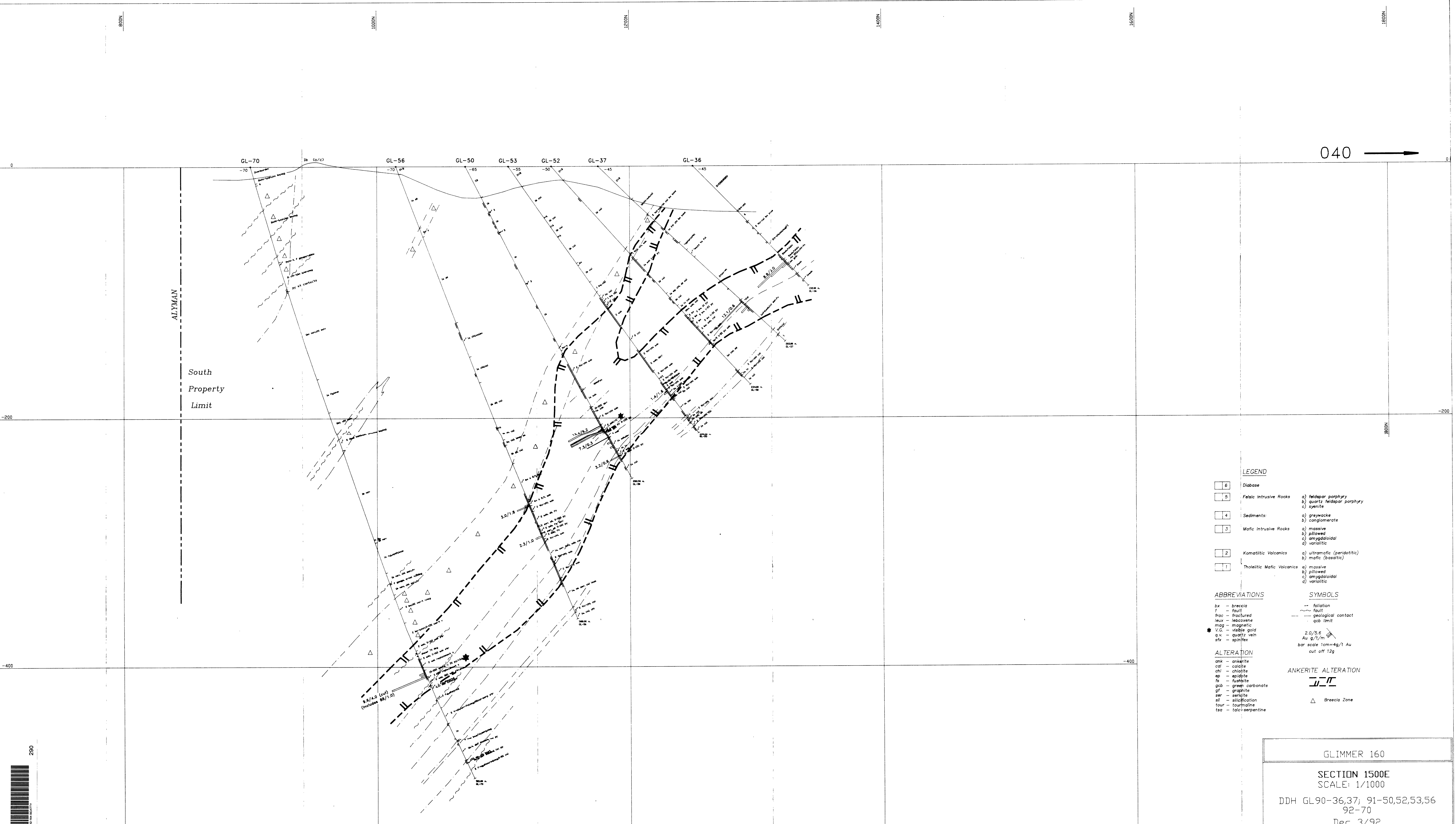




100 Meters


GIMMER 160
SECTION 1225E SCALE: 1/1000
DDH GL92-73
January 21, 1993
26L-1225
NORANDA EXPLORATION

Handwritten signature





- LEGEND**
- | | | |
|---|----------------------------|-----------------------------|
| 6 | Diabase | a) feldspar porphyry |
| 5 | Felsic Intrusive Rocks | b) quartz feldspar porphyry |
| | | c) syenite |
| 4 | Sediments: | a) greywacke |
| | | b) conglomerate |
| 3 | Mafic Intrusive Rocks | a) massive |
| | | b) pillowed |
| | | c) amygdaloidal |
| | | d) variolitic |
| 2 | Komatiitic Volcanics | a) ultramafic (peridotitic) |
| | | b) mafic (basaltic) |
| 1 | Tholeiitic Mafic Volcanics | a) massive |
| | | b) pillowed |
| | | c) amygdaloidal |
| | | d) variolitic |
- ABBREVIATIONS**
- bx - breccia
f - fault
frac - fractured
leuc - leucocrone
mag - magnetic
* V.G. - visible gold
q.v. - quartz vein
sfx - spinifex
- SYMBOLS**
- foliation
- - - fault
- - - geological contact
- - - qcb limit
2.0/5.6
Au g/t/m
bar scale 1cm=4g/t Au
cut off 12g
- ALTERATION**
- ank - ankerite
cal - calcite
chl - chlorite
ep - epidote
fs - feldspar
gcb - green carbonate
gr - graphite
ser - sericite
sil - silicification
tour - tourmaline
tsa - talc-serpentine
- ANKERITE ALTERATION**
-  Ankerite Alteration
-  Breccia Zone

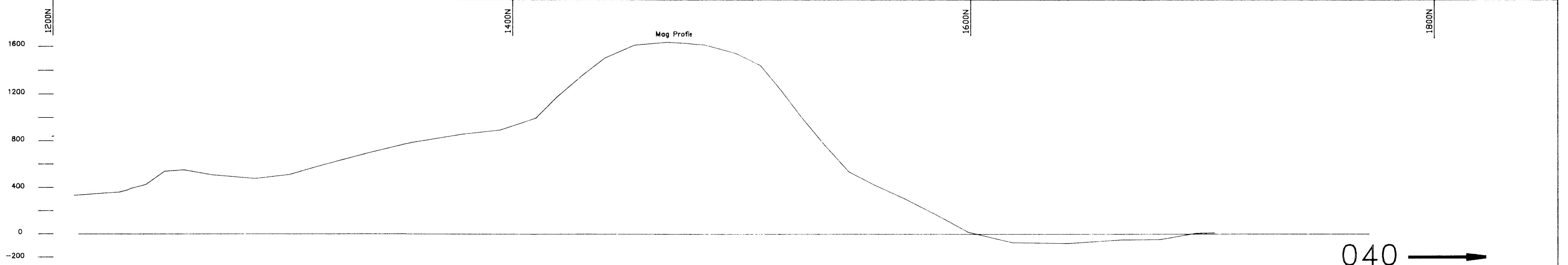
100 Meters 

GILMER 160
SECTION 1500E
SCALE: 1/1000
DDH GL90-36,37; 91-50,52,53,56
92-70
Dec 3/92
29L-1500
NORANDA EXPLORATION



J. Babu
29L-1500
02/02/93

Vertical Scale
1cm: 200mT
Datum= 58000mT



Hemlo-Cameco Pike River Property
South Property Limit Claim 1048333

East Property Limit Claim 1048333
J.A. Ewen

L1950E/1460N
GL-75

-46

100 Meters

LEGEND

- | | | |
|---|----------------------------|---|
| 6 | Diabase | |
| 5 | Felsic Intrusive Rocks | a) feldspar porphyry
b) quartz feldspar porphyry
c) syenite |
| 4 | Sediments: | a) greywacke
b) conglomerate |
| 3 | Mafic Intrusive Rocks | a) massive
b) pillowed
c) amygdaloidal
d) variolitic |
| 2 | Komatiitic Volcanics | a) ultramafic (peridotitic)
b) mafic (basaltic) |
| 1 | Tholeiitic Mafic Volcanics | a) massive
b) pillowed
c) amygdaloidal
d) variolitic |

ABBREVIATIONS

- bx - breccia
f - fault
frac - fractured
leux - leucoxene
mag - magnetic
V.G. - visible gold
q.v. - quartz vein
sfx - spinifex

ALTERATION

- ank - ankerite
cal - calcite
chl - chlorite
ep - epidote
fs - fushsite
gcb - green carbonate
gf - graphite
ser - sericite
sil - silicification
tour - tourmaline
tsa - talc-serpentine

SYMBOLS

- foliation
fault
geological contact
gcb limit
2.0/5.6
Au g/t/m
bar scale 1cm=4g/t Au
cut off 12g

ANKERITE ALTERATION



GLIMMER 160

SECTION 1950E
SCALE: 1/1000

DDH GL92-75

January 18, 1993

2GL-1950

NORANDA EXPLORATION

J. Ewen

2GL-1950
02/02/93

300



4242997025 02/02/93

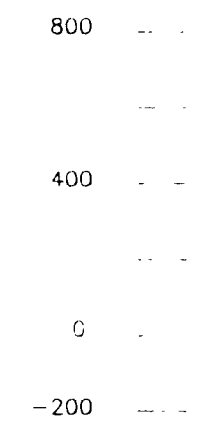
1000N

1200N

1400N

1600N

Vertical Scale
1cm: 200mT

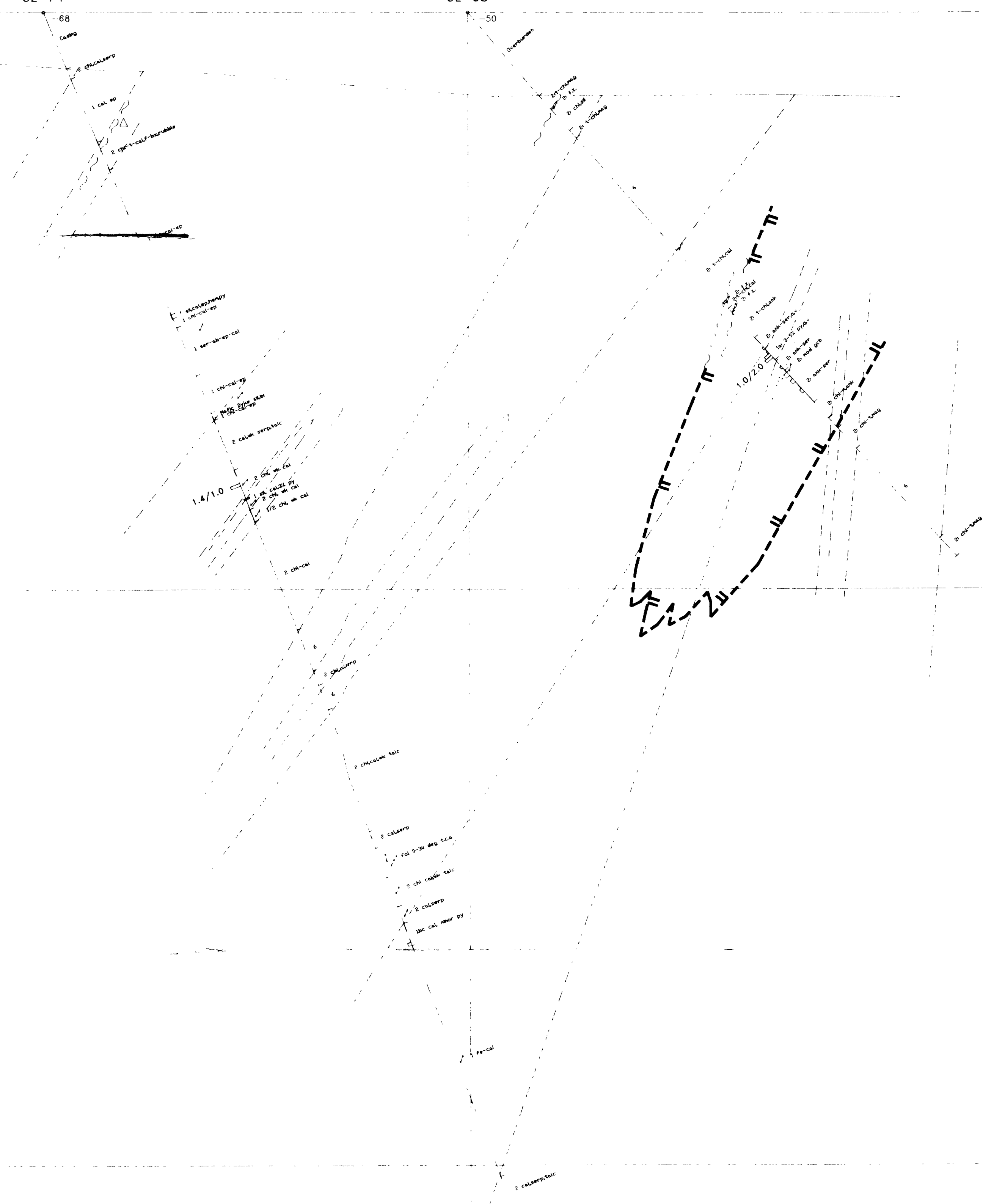


Mag Profile

04

11700E, 1250N
GL-74

11700E, 1400N
GL-68



LEGEND

- | | | | |
|---|---------------------------------|---|--|
| 6 | Diabase | | |
| 5 | Felsic Intrusive Rocks | a) feldspar porphyry
b) quartz feldspar porphyry
c) syenite | |
| 4 | Sediments | a) greywacke
b) conglomerate | |
| 3 | Mafic Intrusive Rocks | a) massive
b) pillowed
c) amygdaloidal
d) variolitic | |
| 2 | Komatiitic Volcanics | a) ultramafic (peridotitic)
b) mafic (basaltic) | |
| 1 | Tholeiitic / Basaltic Volcanics | a) massive
b) pillowed
c) amygdaloidal
d) variolitic | |

ABBREVIATIONS

- bx - breccia
- f - fault
- frac - fractured
- leux - leucoxene
- mag - magnetite
- v.g. - visible gold
- q.v. - quartz vein
- stx - spinifex

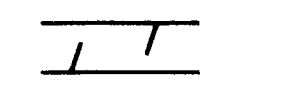
SYMBOLS

- ~ - foliation
- ~ - fault
- - geological contact
- gcb - gcb limit
- 2.0, 5.0 Au g./t m
- bar scale 1cm=4g./t Au cut off 12g

ALTERATION

- ank - ankerite
- ca - calcite
- ch - chlorite
- ep - epidote
- fs - fushsite
- gcb - green carbonate
- gf - graphite
- ser - sericite
- sil - silicification
- tour - tourmaline
- tsa - talc-serpentine

ANKERITE ALTERATION



△ Breccia Zone

100 Meters



G
SE
SC
DDH
J
NORANDA

J. Baker