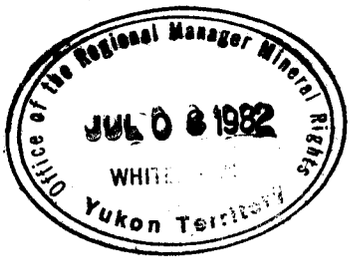
091062

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT





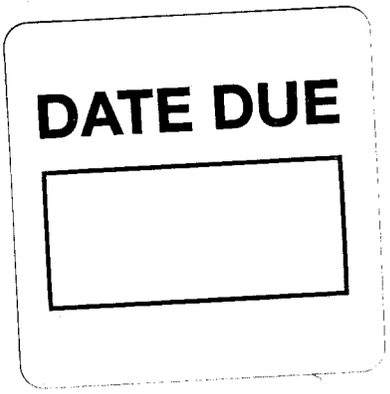
# DIAMOND DRILLING REPORT ON

## JC CLAIM GROUP

Situated at 60°12'N Latitude, 130°44'W Longitude

WATSON LAKE MINING DIVISION

NTS-105B-4




22 APRIL 1982

L.J. NAGY

INDIAN and NORTHERN AFFAIRS

# TRANSMITTAL FORM

M.R. File No. _____

S.M.R. File No. _____

Date Fwd. ~~24 JUNE 82~~ 5 July 82

FROM: Mining Recorder at Watson Lake

TO: Supervising Mining Recorder at Whitehorse, Y.T.


FOR ACTION ARE:

☐ NEW APPL'N for PLACER LEASE to PROSPECT: Name:

☐ RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: Lease No.

☐ AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name Lease No

☐ ASSIGNMENT of PLACER LEASE No.
From: To:

☐ GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.
Owner:

☒ DIAMOND DRILL LOGS.
Claims: JC 1,3 Claim sheet no. 105.B.4

☐ QUARTZ ASSESSMENT REPORT
Claims: Claim sheet no.

Type of report: Submitted by:

Cls. work performed on: $ Req. for ren. application

_____
Signature

REPLY ACTION. Date Ret.

091002

_____
Signature

Indian and Northern Affairs | Affaires indiennes et du Nord


P. O. Box 269
Watson Lake, Yukon
YOA 1CO

23 June 1982

*Your file* *Votre référence*

*Our file* *Notre référence*

REGIONAL DIRECTOR RESOURCES

Attention: Supervising Mining Recorder

RESTRICTED

Enclosed are Diamond Drill logs submitted by Cominco Ltd. for assessment on the JC mineral claims located on Map 105-B-4.

Drill holes were as follows:

| | | |
|---|---|---|
| 81-1 | 751' | JC 3 |
| 81-2 | 852' | JC 3 |
| 81-3 | 865' | JC 3 |
| 81-4 | 878' | JC 1 |
| 81-6 | 185' | JC 3 |
| 81-7 | 375' | JC 3 |
| 81-8 | 342' | JC 3 |
| 81-9 | 762' | JC 3 |

Total assessment requested is $38,400.00.

Drill cores are being stored at the main camp site on the JC property.

Yours truly,

Patti L. McLeod
Mining Recorder
Watson Lake Mining District

pj
encl.
cc: Regional Geologist

091062

TABLE OF CONTENTS



List of Attachments

1) Plate 81-1 - JC Location Map
2) Plate 81-2 - 1981 DDH Location Map
3) Diamond Drill Hole Logs and Assays
4) Certificates of Assay - Chemex Labs Ltd.
5) Statement of Expenditures: Jan. - Dec. 1981.

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT
22 April 1982

# DIAMOND DRILLING REPORT ON JC CLAIM GROUP Situated at 60°12'N, 130°44'W

## SUMMARY

Exploration on the JC claim Group continued in 1981 with an emphasis on defining the extent of a stratiform, skarn hosted tin deposit located near the north boundary of the property.

During June, July, and August 1981, 8 diamond drill holes (5010 feet) were completed on the main zone. One Additional hole (JC-81-5) of 477 feet in length was drilled approximately 6000 feet west along strike from the "main zone". (See DD Report JC80 claim - L.J. Nagy (1982)).

The drill holes were designed to intersect projected Sn mineralization 200 to 500 feet down dip and along strike of this stratiform skarn horizon.

## INTRODUCTION

The JC claim group comprises 82 mineral claims in the south east Yukon and is located approximately 18 miles north of the Alaska Highway and 22 miles northwest of Swift River, B.C.

The exploration target is a stratiform, tin bearing skarn which outcrops near the north boundary of the claim group and dips 20° to 30° south.

The skarn occurs within a 75 to 125 feet thick horizon of calcareous Mississippian sediments which on the JC claims, occur proximal to a ridge-like body of Tertiary-Cretaceous quartz-monzonite. The quartz-monzonite is probably a small periferal intrusion associated with the Seagull Batholith.

Very fine grained cassiterite is associated with magnetite, arsenopyrite, minor chalcopyrite, pyrrhotite and sphalerite in actinolite-bearing zones of the skarn.

The grade and distribution of the cassiterite bearing skarns is erratic and as a consequence all drilling results must be interpreted with caution.

## RESULTS OF 1981 DIAMOND DRILLING PROGRAM

In 1981, nine diamond drill holes, totalling 5487 feet were drilled. Drill holes JC-81-1 to JC-81-4 and JC-81-9 were drilled on the "main zone" between Line 76E and Line 88E. These holes were drilled to test the skarn horizon for tin mineralization 400 to 500 feet down dip from surface mineralization. All holes except JC-81-2 intersected approximately 100 feet of skarn.

Unfortunately, due to faulting, JC-81-2 failed to intersect the skarn horizon and passed directly from quartzite into quartz-monzonite.

Drill hole JC-81-5 tested a broad magnetic anomaly within the same calcareous horizon and approximately 5000' west of the "main zone". The results from this hole were discussed in a separate report submitted earlier.

Drill hole JC-81-6 was designed to test the "up dip" projection of tin mineralization in skarn encountered in earlier drilling. This hole intersected about 60 feet of magnetite-bearing skarn with only low values in tin.

Holes JC-81-7 and JC-81-8 were collared on lines 84E and 80E respectively. Both holes intersected broad sections of magnetite and pyrrhotite bearing skarn but only low values in tin are present.

The drill cores are stored at the main camp site on the JC property.

CONTRACTORS

The drilling was contracted to Caron Diamond Drilling Ltd. - Whitehorse, Yukon. This company provided a competent crew of drillers and is to be commended for the crew's excellent performance.

Helicopter support was provided on a casual basis by both Century Helicopters Ltd., Delta, B.C. and Viking Helicopters Ltd., Ottawa, Ontario.

All analysis of drill cores were performed by Chemex Labs Ltd., North Vancouver, B.C.

CONCLUSIONS

Diamond drilling in 1981 confirmed the down dip and strike continuity of the skarn horizon but the grade of the tin bearing portions of the skarn appears to diminish down dip from the higher grade sections drilled in previous years.

The presence of a well developed skarn in this area has been established but the horizon still remains untested for zones of tin enrichment, particularly in the area directly over the projected crest of the underlying quartz-monzonite.

Submitted by
L.J. Nagy
Project Geologist

Endorsed by
Dr. D.L. Cooke
Senior Geologist

Approved for release by
Dr. W.J. Wolfe
Assistant Manager

LJN/kjm

COMINCO LTD.

STATEMENT OF EXPENDITURES

D C SYNDICATE

JC GROUP

JANUARY 1, 1981 TO DECEMBER 31, 1981

| | DEC. 1/81 DEC. 31/81 | JAN. 1/81 DEC. 31/81 |
|---|---|---|
| Geology | $ 2,595 | $ 57,048 |
| Geochemistry | 25 | 1,455 |
| Geophysics | - | 4,591 |
| Transportation (including mobilization) | 3,482 | 71,601 |
| Camp Costs | - | 32,921 |
| Diamond Drilling | - | 138,557 |
| Communications | (101) | 2,027 |
| Trenching | - | 54,846 |
| Survey & Ground Control | - | 852 |
| Administration - 10% | 599 | 36,389 |
| | $ 6,600 | $ 400,287 |

Expenditures to be funded by Cominco (50%) and Dome (50%)

Cominco Ltd.
Vancouver Office
January 26th, 1982
Copies: Dome Exploration Canada Ltd.
Senior Geologist
File (2)

R. L. Woods
Supervisor,
Exploration Accounting

# CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS


## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112594-001-A
INVOICE # : I8112594
DATE : 09-AUG-81
P.O. # : NONE
JC 81-1

ATTN: D.L. COOKE C/C L.J. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 19544 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 19545 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 19546 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 19547 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 19548 | 207 | <0.01 | <0.01 | <0.01 | 0.92 | <0.003 | -- |
| 19549 | 207 | <0.01 | <0.01 | <0.01 | 0.06 | <0.003 | -- |
| 19550 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 19551 | 207 | <0.01 | <0.01 | <0.01 | 0.18 | 0.008 | -- |

B. Stewart

Registered Assayer, Province of British Columbia

D.C. Lyn. 115

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VANCOUVER, B.C.
V6C 1T2

CERT. # : A8111999-001-A
INVOICE # : I8111999
DATE : 17-JUL-81
P.O. # : LJN-8123

File : JA Group.

ATTN: D.L. COOK c.c. L.J. NAGY, WHITEHORSE

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 19501 | 207 | <0.01 | <0.01 | <0.01 | 0.04 | 0.026 | -- |
| 19502 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | 0.014 | -- |
| 19503 | 207 | <0.01 | <0.01 | 0.07 | 0.01 | 0.006 | -- |
| 19504 | 207 | <0.01 | <0.01 | 0.21 | 0.03 | <0.003 | -- |
| 19505 | 207 | <0.01 | <0.01 | 0.17 | 0.02 | <0.003 | -- |
| 19506 | 207 | <0.01 | <0.01 | 0.25 | 0.07 | <0.003 | -- |
| 19507 | 207 | <0.01 | <0.01 | 0.20 | 0.06 | 0.004 | -- |
| 19508 | 207 | 0.01 | <0.01 | 0.22 | 0.07 | <0.003 | -- |
| 19509 | 207 | <0.01 | <0.01 | 0.23 | 0.07 | <0.003 | -- |
| 19510 | 207 | <0.01 | <0.01 | <0.01 | 0.02 | <0.003 | -- |
| 19511 | 207 | <0.01 | <0.01 | 0.08 | 0.02 | <0.003 | -- |
| 19512 | 207 | 0.01 | <0.01 | 0.10 | 0.06 | <0.003 | -- |
| 19513 | 207 | <0.01 | <0.01 | 0.19 | 0.05 | <0.003 | -- |
| 19514 | 207 | <0.01 | <0.01 | 0.19 | 0.07 | 0.006 | -- |
| 19515 | 207 | 0.07 | <0.01 | 0.22 | 0.07 | <0.003 | -- |
| 19516 | 207 | 0.02 | <0.01 | 0.13 | 0.03 | <0.003 | -- |
| 19517 | 207 | 0.03 | <0.01 | 0.22 | 0.02 | <0.003 | -- |
| 19518 | 207 | 0.02 | <0.01 | 0.22 | 0.05 | <0.003 | -- |
| 19519 | 207 | <0.01 | <0.01 | 0.13 | 0.06 | <0.003 | -- |
| 19520 | 207 | 0.02 | <0.01 | 0.18 | 0.05 | 0.018 | -- |
| 19521 | 207 | <0.01 | <0.01 | 0.05 | 0.02 | <0.003 | -- |
| 19522 | 207 | <0.01 | <0.01 | 0.14 | 0.03 | <0.003 | -- |
| 19523 | 207 | <0.01 | <0.01 | 0.14 | 0.02 | <0.003 | -- |
| 19524 | 207 | 0.08 | <0.01 | 0.26 | 0.11 | <0.003 | -- |
| 19525 | 207 | 0.03 | <0.01 | 0.10 | 0.04 | <0.003 | -- |
| 19526 | 207 | <0.01 | <0.01 | 0.18 | 0.03 | <0.003 | -- |
| 19527 | 207 | <0.01 | 0.11 | 0.14 | 0.05 | <0.003 | -- |
| 19528 | 207 | <0.01 | 0.04 | 0.07 | 0.04 | <0.003 | -- |
| 19529 | 207 | <0.01 | <0.01 | 0.05 | 0.02 | <0.003 | -- |
| 19530 | 207 | 0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19531 | 207 | <0.01 | <0.01 | 0.03 | 0.01 | <0.003 | -- |
| 19532 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19533 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 19534 | 207 | 0.03 | 0.01 | 0.01 | 0.01 | <0.003 | -- |
| 19535 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19536 | 207 | 0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19537 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19538 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19539 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 19540 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |

P.G. Twarda

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CERT. # : A8111999-002-A
INVOICE # : I8111999
DATE : 17-JUL-81
P.O. # : LJN-8123

ATTN: D.L. COOK c.c. L.J. NAGY, WHITEHORSE

| Sample description | Prep code | Cu. percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 19541 | 207 | 0.01 | <0.01 | 0.02 | 0.05 | 0.020 | -- |
| 19542 | 207 | <0.01 | <0.01 | 0.01 | 0.02 | 0.004 | -- |
| 19543 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |

B.L. Swarts

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V6C 1T2

CERT. # : A8112595-001-A
INVOICE # : I8112595
DATE : 12-AUG-81
P.O. # : NONE
JC 81-2

ATTN: D.L. COOKE C/C L.J. NAGY

| Sample description | Prep code | Cu percent | Mo percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t |
|---|---|---|---|---|---|---|---|
| 97501 | 207 | 0.01 | -- | <0.01 | 0.02 | 0.01 | <0.003 |
| 97502 | 207 | 0.06 | -- | <0.01 | 0.02 | 0.09 | <0.003 |
| 97503 | 207 | <0.01 | -- | <0.01 | 0.02 | 0.01 | <0.003 |
| 97504 | 207 | <0.01 | -- | <0.01 | 0.02 | <0.01 | <0.003 |
| 97505 | 207 | <0.01 | -- | <0.01 | 0.03 | 0.01 | <0.003 |
| 97506 | 207 | <0.01 | -- | 0.02 | 0.02 | 0.03 | <0.003 |
| 97507 | 207 | <0.01 | -- | <0.01 | 0.03 | 0.01 | <0.003 |
| 97508 | 207 | <0.01 | -- | <0.01 | 0.02 | 0.01 | <0.003 |
| 97509 | 207 | <0.01 | -- | <0.01 | 0.02 | 0.01 | <0.003 |
| 97510 | 207 | <0.01 | <0.001 | <0.01 | 0.02 | <0.01 | <0.003 |
| 97511 | 207 | <0.01 | <0.001 | 0.01 | 0.02 | 0.16 | <0.003 |
| 97512 | 207 | 0.01 | <0.001 | 0.01 | 0.02 | 0.07 | <0.003 |
| 97513 | 207 | 0.01 | 0.001 | 0.01 | 0.02 | 0.07 | <0.003 |
| 97514 | 207 | <0.01 | <0.001 | <0.01 | 0.01 | 0.01 | <0.003 |
| 97515 | 207 | <0.01 | <0.001 | <0.01 | 0.02 | 0.03 | <0.003 |
| 97516 | 207 | <0.01 | <0.001 | <0.01 | 0.02 | 0.03 | <0.003 |
| 97517 | 207 | <0.01 | <0.001 | <0.01 | 0.02 | <0.01 | <0.003 |
| 97518 | 207 | <0.01 | <0.001 | 0.01 | <0.01 | 0.01 | <0.003 |
| 97519 | 207 | <0.01 | <0.001 | 0.01 | 0.01 | 0.05 | <0.003 |
| 97520 | 207 | <0.01 | <0.001 | 0.02 | 0.01 | 0.01 | <0.003 |
| 97521 | 207 | <0.01 | -- | 0.01 | 0.01 | <0.01 | <0.003 |
| 97522 | 207 | <0.01 | -- | 0.01 | 0.01 | <0.01 | <0.003 |
| 97523 | 207 | <0.01 | -- | 0.01 | 0.01 | <0.01 | <0.003 |
| 97524 | 207 | <0.01 | -- | 0.02 | 0.01 | 0.01 | <0.003 |
| 97525 | 207 | <0.01 | -- | 0.02 | <0.01 | <0.01 | <0.003 |
| 97526 | 207 | <0.01 | -- | 0.01 | <0.01 | 0.01 | <0.003 |
| 97527 | 207 | <0.01 | -- | 0.02 | 0.01 | 0.01 | <0.003 |
| 97528 | 207 | <0.01 | -- | 0.01 | <0.01 | <0.01 | <0.003 |
| 97529 | 207 | <0.01 | -- | 0.01 | 0.01 | <0.01 | <0.003 |
| 97530 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97531 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97532 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97533 | 207 | <0.01 | -- | <0.01 | 0.01 | 0.01 | <0.003 |
| 97534 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97535 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97536 | 207 | <0.01 | -- | <0.01 | 0.01 | <0.01 | <0.003 |
| 97537 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97538 | 207 | <0.01 | -- | <0.01 | 0.01 | 0.15 | <0.003 |
| 97539 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97540 | 207 | <0.01 | -- | <0.01 | 0.02 | <0.01 | <0.003 |

B.A. Fwarte

Registered Assayer, Province of British Columbia

CTA MEMBER CANADIAN TESTING ASSOCIATION

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TELEX: 043-52597

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VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112595-002-A
INVOICE # : I8112595
DATE : 12-AUG-81
P.O. # : NONE
JC 81-2

ATTN: D.L. COOKE C/C L.J. NAGY

| Sample description | Prep code | Cu percent | Mo percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t |
|---|---|---|---|---|---|---|---|
| 97541 | 207 | <0.01 | -- | <0.01 | 0.01 | <0.01 | <0.003 |
| 97542 | 207 | <0.01 | -- | 0.02 | 0.01 | <0.01 | <0.003 |
| 97543 | 207 | <0.01 | -- | 0.02 | 0.01 | <0.01 | <0.003 |
| 97544 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97545 | 207 | <0.01 | -- | <0.01 | 0.01 | <0.01 | <0.003 |
| 97546 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97547 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97548 | 207 | <0.01 | -- | <0.01 | 0.01 | <0.01 | <0.003 |
| 97549 | 207 | <0.01 | -- | <0.01 | 0.01 | <0.01 | <0.003 |
| 97550 | 207 | <0.01 | -- | <0.01 | <0.01 | <0.01 | <0.003 |
| 97551 | 207 | <0.01 | -- | 0.01 | <0.01 | <0.01 | <0.003 |
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| 97554 | 207 | <0.01 | -- | <0.01 | 0.02 | <0.01 | <0.003 |

B. Stewart

Registered Assayer, Province of British Columbia

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TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112596-001-A
INVOICE # : I8112596
DATE : 14-AUG-81
P.O. # : NONE
JC 81-3

ATTN: D.L. COOKE C/C L.J. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97555 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97556 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97557 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97558 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97559 | 207 | 0.02 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97560 | 207 | 0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97561 | 207 | 0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97562 | 207 | <0.01 | 0.02 | <0.01 | <0.01 | <0.003 | -- |
| 97563 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97564 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97565 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97566 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97567 | 207 | <0.01 | 0.30 | 0.02 | 0.05 | <0.003 | -- |
| 97568 | 207 | <0.01 | <0.01 | 0.02 | 0.05 | <0.003 | -- |
| 97569 | 207 | <0.01 | <0.01 | 0.02 | 0.05 | <0.003 | -- |
| 97570 | 207 | <0.01 | 0.01 | 0.05 | 0.01 | <0.003 | -- |
| 97571 | 207 | <0.01 | 0.02 | 0.05 | 0.01 | <0.003 | -- |
| 97572 | 207 | <0.01 | <0.01 | 0.09 | 0.01 | <0.003 | -- |
| 97573 | 207 | <0.01 | <0.01 | 0.11 | 0.01 | <0.003 | -- |
| 97574 | 207 | <0.01 | <0.01 | 0.08 | 0.01 | <0.003 | -- |
| 97575 | 207 | <0.01 | <0.01 | 0.04 | 0.01 | <0.003 | -- |
| 97576 | 207 | <0.01 | <0.01 | 0.09 | 0.07 | <0.003 | -- |
| 97577 | 207 | <0.01 | <0.01 | 0.15 | 0.03 | <0.003 | -- |
| 97578 | 207 | <0.01 | 0.34 | 0.14 | 0.03 | <0.003 | -- |
| 97579 | 207 | <0.01 | <0.01 | 0.21 | 0.03 | <0.003 | -- |
| 97580 | 207 | <0.01 | <0.01 | 0.15 | 0.03 | <0.003 | -- |
| 97581 | 207 | <0.01 | 0.01 | 0.08 | 0.03 | <0.003 | -- |
| 97582 | 207 | <0.01 | 0.03 | 0.02 | 0.05 | <0.003 | -- |
| 97583 | 207 | <0.01 | 0.03 | 0.01 | 0.05 | <0.003 | -- |
| 97584 | 207 | <0.01 | 0.05 | <0.01 | 0.05 | <0.003 | -- |
| 97585 | 207 | <0.01 | 0.32 | 0.01 | 0.05 | <0.003 | -- |
| 97586 | 207 | <0.01 | 0.03 | <0.01 | 0.03 | <0.003 | -- |
| 97587 | 207 | <0.01 | 0.03 | 0.02 | 0.03 | <0.003 | -- |
| 97588 | 207 | <0.01 | 0.01 | 0.09 | 0.07 | <0.003 | -- |
| 97589 | 207 | <0.01 | 0.01 | 0.03 | 0.03 | <0.003 | -- |
| 97590 | 207 | 0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97591 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97592 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97593 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97594 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |

B.A. Fraser

Registered Assayer, Province of British Columbia

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TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112596-002-A
INVOICE # : I8112596
DATE : 14-AUG-81
P.O. # : NONE
JC 81-3

ATTN: D.L. COOKE C/C L.J. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97595 | 207 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97596 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97597 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97598 | 207 | 0.06 | <0.01 | 0.01 | 0.05 | <0.003 | -- |

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TELEX: 043-52597

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FILE : DC Syn/JC Grou

## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112587-001-A
INVOICE # : I8112587
DATE : 12-AUG-81
P.O. # : NONE
JC 81-4

ATTN: D.L. COOK CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97599 | 207 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| 97600 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97601 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97602 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97603 | 207 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| 97604 | 207 | <0.01 | 0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97605 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | 0.004 | -- |
| 97606 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97607 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97608 | 207 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97609 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97610 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97611 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97612 | 207 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97613 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97614 | 207 | <0.01 | <0.01 | 0.02 | 0.01 | <0.003 | -- |
| 97615 | 207 | <0.01 | <0.01 | 0.02 | 0.01 | <0.003 | -- |
| 97616 | 207 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 | -- |
| 97617 | 207 | 0.05 | 0.02 | 0.05 | 0.09 | <0.003 | -- |
| 97618 | 207 | <0.01 | <0.01 | 0.15 | 0.05 | <0.003 | -- |
| 97619 | 207 | <0.01 | <0.01 | 0.19 | 0.05 | <0.003 | -- |
| 97620 | 207 | 0.31 | <0.01 | 0.63 | 0.58 | <0.003 | -- |
| 97621 | 207 | <0.01 | <0.01 | 0.19 | 0.06 | <0.003 | -- |
| 97622 | 207 | 0.02 | <0.01 | 0.15 | 0.06 | <0.003 | -- |
| 97623 | 207 | 0.23 | 0.02 | 0.84 | 0.46 | <0.003 | -- |
| 97624 | 207 | <0.01 | <0.01 | 0.13 | 0.03 | <0.003 | -- |
| 97625 | 207 | <0.01 | <0.01 | 0.10 | 0.03 | <0.003 | -- |
| 97626 | 207 | <0.01 | <0.01 | 0.13 | 0.01 | <0.003 | -- |
| 97627 | 207 | <0.01 | <0.01 | 0.08 | 0.01 | <0.003 | -- |
| 97628 | 207 | <0.01 | <0.01 | 0.09 | 0.03 | <0.003 | -- |
| 97629 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97630 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97631 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97632 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97633 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97634 | 207 | <0.01 | <0.01 | 0.14 | 0.03 | <0.003 | -- |
| 97635 | 207 | <0.01 | 0.01 | 0.08 | 0.05 | <0.003 | -- |
| 97636 | 207 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97637 | 207 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97638 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |

B.A. Fuerstenau

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112587-002-A
INVOICE # : I8112587
DATE : 12-AUG-81
P.O. # : NONE
JC 81-4

ATTN: D.L. COOK CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97639 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |

B. Stewart

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~~FW~~. File JC Group.

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112878-001-A
INVOICE # : I8112878
DATE : 31-AUG-81
P.O. # : NONE
JC 81-6

ATTN: D.L. COVHE CC: L.J. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97696 | 207 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| 97697 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97698 | 207 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97700 | 207 | 0.07 | <0.01 | 0.08 | 0.10 | <0.003 | -- |
| 97901 | 207 | 0.05 | <0.01 | 0.10 | 0.09 | <0.003 | -- |
| 97902 | 207 | <0.01 | <0.01 | 0.06 | 0.08 | <0.003 | -- |
| 97903 | 207 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| 97904 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97905 | 207 | <0.01 | <0.01 | 0.03 | 0.01 | <0.003 | -- |
| 97906 | 207 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 | -- |
| 97907 | 207 | 0.06 | <0.01 | 0.25 | 0.13 | <0.003 | -- |
| 97908 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97909 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97910 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97911 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97912 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97913 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97914 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97915 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |

B. Grantes

Registered Assayer, Province of British Columbia

CTA MEMBER CANADIAN TESTING ASSOCIATION

~~[illegible]~~ / File: JC Group
JC Syndicate

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TELEPHONE: (604)984-0221
TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112954-001-A
INVOICE # : I8112954
DATE : 08-SEP-81
P.O. # : NONE
JC 81-6

ATTN: D.C. COOKE CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97916 | 207 | <0.01 | 0.01 | <0.01 | 0.01 | <0.003 | -- |
| 97917 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97918 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97919 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97920 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97921 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97922 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97923 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | 0.003 | -- |
| 97924 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97925 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97926 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | 0.003 | -- |

B. Swarthout

Registered Assayer, Province of British Columbia

CTA MEMBER CANADIAN TESTING ASSOCIATION

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File: JC Group.

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TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112955-001-A
INVOICE # : I8112955
DATE : 02-SEP-81
P.O. # : NONE
JC 81-7

ATTN: D.C. COOKE CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97931 | 207 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 | -- |
| 97932 | 207 | <0.01 | 0.01 | 0.01 | 0.01 | <0.003 | -- |
| 97933 | 207 | <0.01 | 0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97934 | 207 | 0.01 | 0.52 | 0.04 | 0.06 | <0.003 | -- |
| 97935 | 207 | 0.01 | 0.02 | 0.01 | 0.02 | <0.003 | -- |
| 97936 | 207 | <0.01 | 0.18 | 0.05 | 0.07 | <0.003 | -- |
| 97937 | 207 | <0.01 | 0.06 | 0.04 | 0.04 | <0.003 | -- |
| 97938 | 207 | 0.04 | 0.01 | 0.08 | 0.09 | <0.003 | -- |
| 97939 | 207 | <0.01 | 0.01 | 0.19 | 0.07 | <0.003 | -- |
| 97940 | 207 | <0.01 | 0.01 | 0.15 | 0.07 | <0.003 | -- |
| 97941 | 207 | 0.79 | 0.01 | 0.10 | 0.29 | <0.003 | -- |
| 97942 | 207 | 0.12 | 0.02 | 0.25 | 0.15 | <0.003 | -- |
| 97943 | 207 | 0.05 | 0.02 | 0.15 | 0.09 | <0.003 | -- |
| 97944 | 207 | 0.02 | 0.01 | 0.10 | 0.08 | <0.003 | -- |
| 97945 | 207 | 0.01 | 0.02 | 0.07 | 0.09 | <0.003 | -- |
| 97946 | 207 | 0.14 | 0.01 | 0.07 | 0.13 | <0.003 | -- |
| 97947 | 207 | 0.26 | 0.01 | 0.27 | 0.23 | <0.003 | -- |
| 97948 | 207 | 0.26 | 0.01 | 0.24 | 0.25 | <0.003 | -- |
| 97949 | 207 | 0.09 | 0.01 | 0.17 | 0.15 | <0.003 | -- |
| 97950 | 207 | 0.04 | 0.03 | 0.23 | 0.11 | <0.003 | -- |
| 97951 | 207 | <0.01 | 0.11 | 0.12 | 0.10 | <0.003 | -- |
| 97952 | 207 | <0.01 | 0.01 | 0.14 | 0.09 | <0.003 | -- |
| 97953 | 207 | <0.01 | 0.01 | 0.15 | 0.08 | <0.003 | -- |
| 97954 | 207 | <0.01 | 0.03 | 0.11 | 0.07 | <0.003 | -- |
| 97955 | 207 | <0.01 | 0.03 | 0.07 | 0.07 | <0.003 | -- |
| 97956 | 207 | <0.01 | 0.03 | 0.05 | 0.05 | <0.003 | -- |
| 97957 | 207 | 0.03 | 0.01 | 0.07 | 0.07 | <0.003 | -- |
| 97958 | 207 | <0.01 | 0.02 | 0.03 | 0.02 | <0.003 | -- |
| 97959 | 207 | <0.01 | 0.01 | 0.07 | 0.03 | <0.003 | -- |
| 97960 | 207 | <0.01 | 0.04 | 0.04 | 0.05 | <0.003 | -- |
| 97961 | 207 | 0.01 | 0.33 | 0.07 | 0.07 | <0.003 | -- |
| 97962 | 207 | 0.03 | 0.04 | 0.13 | 0.09 | <0.003 | -- |
| 97963 | 207 | 0.01 | 0.07 | 0.15 | 0.09 | <0.003 | -- |
| 97964 | 207 | 0.02 | 0.06 | 0.14 | 0.17 | <0.003 | -- |
| 97965 | 207 | <0.01 | 0.03 | 0.02 | <0.01 | <0.003 | -- |
| 97966 | 207 | <0.01 | 0.02 | 0.01 | <0.01 | <0.003 | -- |
| 97967 | 207 | 0.01 | <0.01 | 0.03 | 0.02 | <0.003 | -- |
| 97968 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97969 | 207 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 | -- |
| 97970 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |

B.S. Inwarta

Registered Assayer, Province of British Columbia

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TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8112955-002-A
INVOICE # : I8112955
DATE : 02-SEP-81
P.O. # : NONE
JC 81-7

ATTN: D.C. COOKE CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97971 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97972 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97973 | 207 | <0.01 | 0.02 | <0.01 | <0.01 | <0.003 | -- |
| 97974 | 207 | <0.01 | 0.08 | 0.03 | <0.01 | <0.003 | -- |
| 97693 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97694 | 207 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 | -- |
| 97695 | 207 | <0.01 | <0.01 | 0.16 | <0.01 | <0.003 | -- |

B. Lewarchuk

Registered Assayer, Province of British Columbia

File : JC 81-8 & JC 81-9 Signed.

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TELEX: 043-52597

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## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8113315-001-1
INVOICE # : I8113315
DATE : 16-SEP-81
P.O. # : NONE
JC 81-8 & JC 81-9

ATTN: D.C. COOKE CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| 97927 | 207 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97928 | 207 | 0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97929 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| 97930 | 207 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97975 | 207 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97976 | 207 | 0.01 | 0.02 | <0.01 | 0.01 | <0.003 | -- |
| 97977 | 207 | 0.01 | 0.02 | <0.01 | 0.02 | <0.003 | -- |
| 97978 | 207 | <0.01 | 0.01 | <0.01 | 0.01 | 0.004 | -- |
| 97979 | 207 | <0.01 | 0.01 | 0.01 | 0.01 | <0.003 | -- |
| 97980 | 207 | <0.01 | 0.02 | 0.20 | 0.09 | <0.003 | -- |
| 97981 | 207 | 0.03 | 0.07 | 0.18 | 0.08 | <0.003 | -- |
| 97982 | 207 | 0.13 | 0.01 | 0.09 | 0.19 | <0.003 | -- |
| 97983 | 207 | <0.01 | 0.03 | 0.20 | 0.05 | <0.003 | -- |
| 97984 | 207 | <0.01 | 0.04 | 0.01 | 0.05 | <0.003 | -- |
| 97985 | 207 | 0.03 | 0.13 | 0.02 | 0.15 | <0.003 | -- |
| 97986 | 207 | 0.02 | 0.01 | 0.02 | 0.06 | <0.003 | -- |
| 97987 | 207 | 0.25 | 0.02 | 0.04 | 0.19 | <0.003 | -- |
| 97988 | 207 | 0.42 | 0.03 | 0.01 | 0.19 | <0.003 | -- |
| 97989 | 207 | 0.33 | 0.05 | <0.01 | 0.15 | <0.003 | -- |
| 97990 | 207 | 0.29 | 0.06 | <0.01 | 0.11 | <0.003 | -- |
| 97991 | 207 | 0.44 | 0.06 | 0.09 | 0.15 | <0.003 | -- |
| 97992 | 207 | 0.07 | 0.03 | 0.09 | 0.09 | <0.003 | -- |
| 97993 | 207 | 0.13 | <0.01 | 0.07 | 0.15 | <0.003 | -- |
| 97994 | 207 | 0.13 | <0.01 | 0.21 | 0.15 | <0.003 | -- |
| 97995 | 207 | 0.05 | 0.02 | 0.07 | 0.10 | <0.003 | -- |
| 97996 | 207 | <0.01 | 0.01 | 0.11 | 0.08 | <0.003 | -- |
| 97997 | 207 | <0.01 | 0.03 | 0.19 | 0.06 | <0.003 | -- |
| 97998 | 207 | <0.01 | 0.02 | 0.14 | 0.07 | <0.003 | -- |
| 97999 | 207 | <0.01 | 0.03 | <0.01 | 0.05 | <0.003 | -- |
| 98000 | 207 | <0.01 | 0.02 | 0.12 | 0.06 | <0.003 | -- |
| SR - 0001 | 207 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| SR - 0002 | 207 | <0.01 | 0.02 | 0.03 | 0.04 | <0.003 | -- |
| SR - 0003 | 207 | <0.01 | <0.01 | 0.14 | 0.07 | <0.003 | -- |
| SR - 0004 | 207 | <0.01 | <0.01 | 0.14 | 0.07 | 0.006 | -- |
| SR - 0005 | 207 | <0.01 | <0.01 | 0.08 | 0.03 | <0.003 | -- |
| SR - 0006 | 207 | <0.01 | <0.01 | 0.12 | 0.07 | <0.003 | -- |
| SR - 0007 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0008 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0009 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0010 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |

B Kwait

Registered Assayer, Province of British Columbia

CTA MEMBER CANADIAN TESTING ASSOCIATION

# CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS


## CERTIFICATE OF ASSAY

TO : COMINCO LIMITED
7th FLOOR 409 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1T2

CERT. # : A8113315-002-A
INVOICE # : I8113315
DATE : 16-SEP-81
P.O. # : NONE
JC 81-8 & JC 81-9

ATTN: D.C. COOKE CC: L. NAGY

| Sample description | Prep code | Cu percent | WO3 percent | Sn percent | Ag (FA) oz/t | Au (FA) oz/t | |
|---|---|---|---|---|---|---|---|
| SR - 0011 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0012 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0013 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0014 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0015 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0016 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0017 | 207 | 0.01 | <0.01 | <0.01 | 0.03 | <0.003 | -- |
| SR - 0018 | 207 | 0.02 | 0.02 | <0.01 | 0.03 | <0.003 | -- |
| SR - 0019 | 207 | <0.01 | 0.03 | <0.01 | 0.03 | <0.003 | -- |
| SR - 0020 | 207 | 0.02 | <0.01 | 0.03 | 0.05 | <0.003 | -- |
| SR - 0021 | 207 | <0.01 | <0.01 | 0.06 | 0.02 | <0.003 | -- |
| SR - 0022 | 207 | <0.01 | 0.02 | 0.07 | 0.04 | <0.003 | -- |
| SR - 0023 | 207 | <0.01 | 0.01 | 0.11 | 0.05 | <0.003 | -- |
| SR - 0024 | 207 | <0.01 | 0.35 | 0.03 | 0.03 | <0.003 | -- |
| SR - 0025 | 207 | <0.01 | 0.07 | 0.05 | 0.05 | <0.003 | -- |
| SR - 0026 | 207 | <0.01 | 0.03 | 0.04 | 0.03 | <0.003 | -- |
| SR - 0027 | 207 | <0.01 | 0.49 | 0.18 | 0.03 | <0.003 | -- |
| SR - 0028 | 207 | <0.01 | 0.05 | 0.11 | 0.01 | <0.003 | -- |
| SR - 0029 | 207 | 0.06 | <0.01 | 0.12 | 0.08 | <0.003 | -- |
| SR - 0030 | 207 | 0.01 | <0.01 | 0.05 | 0.07 | <0.003 | -- |
| SR - 0031 | 207 | 0.01 | 0.01 | 0.07 | 0.07 | <0.003 | -- |
| SR - 0032 | 207 | <0.01 | <0.01 | 0.04 | 0.03 | <0.003 | -- |
| SR - 0033 | 207 | 0.04 | <0.01 | 0.09 | 0.07 | <0.003 | -- |
| SR - 0034 | 207 | 0.01 | <0.01 | 0.05 | 0.05 | <0.003 | -- |
| SR - 0035 | 207 | <0.01 | <0.01 | 0.04 | 0.04 | <0.003 | -- |
| SR - 0036 | 207 | <0.01 | <0.01 | 0.05 | 0.03 | <0.003 | -- |
| SR - 0037 | 207 | 0.01 | <0.01 | 0.05 | 0.03 | <0.003 | -- |
| SR - 0038 | 207 | <0.01 | <0.01 | 0.06 | 0.03 | <0.003 | -- |
| SR - 0039 | 207 | 0.06 | 0.02 | 0.07 | 0.11 | <0.003 | -- |
| SR - 0040 | 207 | 0.03 | <0.01 | 0.03 | 0.07 | <0.003 | -- |
| SR - 0041 | 207 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 | -- |
| SR - 0042 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0043 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0044 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |
| SR - 0045 | 207 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 | -- |

Registered Assayer, Province of British Columbia

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | J.C. Property | District | Watson Lake M.D. | Hole No. | JC 81-1 | | |
| Commenced | 16 June 1981 | Location | Yukon Territory | Tests at | p.11 | Hor. Comp. | |
| Completed | 22 June 1981 | Core Size | BQ | Corr. Dip | -53°N | Vert. Comp. | |
| Co-ordinates | 79+67E 92+14S | | | True Brg. | 360° | Logged by | G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | | Date | 23 June 1981 |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751'

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 0.0 | 32.0 | CASING | | | |
| | | | | | |
| 32.0 | 87.5 | QUARTZITE | | | |
| | | Gray to gray-green; often with mauve coloured, irregular interbeds ('muddy' component); | | | |
| | | hard, fine-grained; often with fine, dissem. py; small qtz.veinlets and narrow qtz. veins occur | | | |
| | | occasionally; qtz. veinlets are fract. fillings; generally does not effervesce w/ HCl; some | | | |
| | | carbonate along joint planes. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | Core angle @ 37' 25° | | | |
| | | Core angle @ 82' 25° | | | |
| | | | | | |
| 87.5 | 91.6 | AMYGDALOIDAL BASALT | | | |
| | | Dark green to black; amygdules of ½-2mm filled w/ soft white calcite and py; also contains | | | |
| | | small 1mm sub-angulsr to rounded grains or shards of dark lime-green glass; whole unit is | | | |
| | | weakly magnetic; forms narrow (1cm) selvage at lower contact w/Quartzite; some py concentrated | | | |
| | | at selvage; probably shallow intrusive dyke. | | | |
| | | | | | |
| | | Core angle @ 91.6 (approx.) 50° Basalt/Quartzite contact | | | |

211-943

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 0.0 | 32.0 | CASING | | | |
| 32.0 | 87.5 | QUARTZITE | | | |
| 87.5 | 91.6 | AMYGDALOIDAL BASALT OYKE | | | |
| 91.6 | 94.5 | QUARTZITE BRECCIA | | | |
| 94.5 | 433.0 | QUARTZITE | | | |
| 433.0 | 450.0 | QUARTZITE BRECCIA | | | |
| 450.0 | 486.5 | QUARTZITE | | | |
| 486.5 | 504.0 | GABBROIC OYKE | | | |
| 504.0 | 538.5 | QUARTZITE | | | |
| 538.5 | 566.5 | SPOTTED SKARN | | | |
| 566.5 | 574.5 | AMYGDALOIDAL BASLAT OYKE | | | |
| 574.5 | 612.0 | DIOPSIDE-ACTINOLITE SKARN | | | |
| 612.0 | 613.5 | AMYGDALOIDAL BASALT OYKE | | | |
| 613.5 | 650.0 | DIOPSIDE ACTINOLITE SKARN | | | |
| 650.0 | 656.0 | QUARTZITE | | | |
| 656.0 | 751.0 | GRANITE | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 91.6 | 94.5 | QUARTZITE BRECCIA | | | |
| | | Fragments of quartzite; central section w/ soft, green chloritic (?) matrix; seems to | | | |
| | | be fault breccia associated w/ basalt dyke; some small py grains w/ matrix. | | | |
| 94.5 | 433.0 | QUARTZITE | | | |
| | | cf. 32.0-87.5; some white. almost cherty sections @ 217' some joints have pyritic coatings. | | | |
| | | Core angle @ 218' 27° | | | |
| | | @ 228'-230' ; greenish (chloritic?) pockets of 1-2 cm carry blebs and specks of py.; small | | | |
| | | blebs of py are often visible in core from about 228' downwards; small sections may show light | | | |
| | | green mineral (epidote?); calcite veinlets and fracture fillings up to 1cm are occasionally | | | |
| | | visible from about 240' downwards. | | | |
| | | Core angle @ 283' 20° | | | |
| | | 327.0-328.8' Rusty quartz vein (sulphate bearing, minor); at high angle almost 90°. | | | |
| | | Core angle @ 359' 17° | | | |
| | | Core angle @ 424' 20° | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 368 | Collar Dip -53° | Elev. 4,942' | Length 751' | Hole No. | Sheet

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Wo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 433.0 | 450.0 | QUARTZITE BRECCIA | | | | | | | |
| | | In part similar to 91.6-94.5; quartzite frags in soft, green chloritic(?) matrix; parts | | | | | | | |
| | | have white quartz frags w/ chloritic and rusty matrix; fragments up tooseveral cm. | | | | | | | |
| 450.0 | 486.5 | QUARTZITE | | | | | | | |
| | | Generally light gray or light brown; rusty coloured veins (1-2cm) along fractures in | | | | | | | |
| | | several directions; may also be darker coloured, mottled brown-black and slightly micaceous. | | | | | | | |
| 486.5 | 504.0 | GABBROIC DYKE | | | | | | | |
| | | Dark green-white mottled; medium gr. (1-2mm); probably subophitic plag./px; whole unit is | | | | | | | |
| | | weakly magnetic. | | | | | | | |
| | | | 19550 | 505.0 514.0 | <0.01 | <0.01 | <0.01 | 0.21 | <0.003 |
| 504.0 | 538.5 | QUARTZITE | 19551 | 514.0 521.0 | <0.01 | <0.01 | <0.01 | 0.19 | 0.009 |
| | | Generally light brown or light gray quartzite; a few small veinlets of qtz. and black min- | 19501 | 521.0 524.0 | <0.01 | <0.01 | <0.01 | 0.04 | 0.026 |
| | | eral (schorl(?)); very minor dissem. py; no mauve 'muddy' bands; bedding is indistinct | 19502 | 524.0 528.0 | <0.01 | <0.01 | <0.01 | <0.01 | 0.014 |
| | | | 19503 | 528.0 538.5 | <0.01 | <0.01 | 0.07 | 0.01 | 0.006 |
| | | Scheclite -3% as 1-5 mm spots 525'-527' | | | | | | | |

211-9437

Scale

Colour Plot & Dips

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4,942' | Length 751' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 538.5 | 566.5 | SPOTTED SKARN | 19504 | 538.5–541.5 | <0.01 | <0.01 | 0.21 | 0.03 | <0.003 |
| | | Medium to coarse gr. garnet-diopside skarn (grain size 1-3mm); large spots of dk. green | 19505 | 541.5–547.0 | <0.01 | <0.01 | 0.17 | 0.02 | <0.003 |
| | | autinolite which may form prismatic/acicular crystals up to 1cm in length; spots often include | 19506 | 547.0–552.0 | <0.01 | <0.01 | 0.25 | 0.07 | <0.003 |
| | | rusty (sulphides(?)) calcite; throughout skarn are found tourmaline (black, striated, prismatic, | 19507 | 552.0–557.0 | <0.01 | <0.01 | 0.20 | 0.06 | 0.004 |
| | | 1-5mm or more), axinite (green-brown, waxy, tabular (triclinic), often euhedral, up to 5mm), | 19508 | 557.0–562.0 | 0.01 | <0.01 | 0.22 | 0.07 | <0.003 |
| | | fluorite (white or sometimes purple, amhedral grains of a few mm, usually w/ tourm. or axinite; | 19509 | 562.0–566.5 | <0.01 | <0.01 | 0.23 | 0.07 | <0.003 |
| | | some calcite has bright lime-green colour (?); a few calcite (± qut.) veins (5-10mm) cross the | | | | | | | |
| | | core at low angles (almost parallel to core length); most carry stringers or pods of rusty | | | | | | | |
| | | (sulphides(?)) mineralization parallel to vein walls. | | | | | | | |
| | | | | | | | | | |
| | | Calcite vein (1cm, rusty mineralization) @ 561' 85° | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 566.5 | 574.5 | AMYGDALOIDAL BASALT | 19510 | 566.5–574.5 | <0.01 | <0.01 | <0.01 | 0.02 | <0.003 |
| | | Dark green-black; grain size less than 1mm; sub-ophitic plag. laths and mafies(px); very | | | | | | | |
| | | small (1mm) calcite filled amygdules; small (½mm) black spots (glass(?)); small calcite stringers | | | | | | | |
| | | in parts; whole unit is weakly to moderately magnetic; top contact has a few cm of brownish | | | | | | | |
| | | alt°. | | | | | | | |

211-9437

Scale

Colour Plot & Dios

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 574.5 | 612.0 | DIOPSIDE-ACTIN. SKARN; dk. green. | 19511 | 574.5 578.0 | <0.01 | <0.01 | 0.08 | 0.02 | <0.003 |
| | | | 19512 | 578.0 582.0 | 0.01 | <0.01 | 0.10 | 0.06 | <0.003 |
| | | Fine grained diopside-actinolite skarn; a few small spots, veins or pods of actinolite and calcite and/or tourm; seems bleached or altered, often rusty coloured, brecciated in part, w/ calcite veinlets and fracture filling; some 1cm veins of soft (rotted) brown-black mineralization w/ calcite; garnet seems minor; "bleached and altered" portions extends from - 574.5'-594'; below 594' rock is a fresher-looking skarn. | | | | | | | |
| | | 582.0-584.0 Calcite vein (1cm) parallel to core axis; some rusty mineralization. | 19513 | 582.0 584.0 | <0.01 | <0.01 | 0.19 | 0.05 | <0.003 |
| | | 583.5-587 Section resembling spotted skarn of 535.5-566.5; far fewer calc.-actin. spots. | 19514 | 584.0 587.0 | <0.01 | <0.01 | 0.19 | 0.07 | 0.006 |
| | | | 19515 | 587.0 592.0 | 0.07 | <0.01 | 0.22 | 0.07 | <0.003 |
| | | Rusty 1cm calcite vein @ 590' 80° | 19516 | 592.0 596.0 | 0.02 | <0.01 | 0.13 | 0.03 | <0.003 |
| | | | 19517 | 596.0 601.0 | 0.03 | <0.01 | 0.22 | 0.02 | <0.003 |
| | | Sulohide veins containing py, aspy, cpy and magn. (some po(?) as well) | 19518 | 601.0 605.5 | 0.02 | <0.01 | 0.22 | 0.05 | <0.003 |
| | | | | | | | | | |
| | | Sulphide vein @ 595' 62° aspy, po(?); 1cm | | | | | | | |
| | | @ 598.5 59° aspy, py magn; 1cm | | | | | | | |
| | | @ 599' 49° aspy, cpy, py; 1cm | | | | | | | |
| | | | | | | | | | |
| | | 605.5-607.5 Brownish altered actinolite skarm; criss-crossed by numerous veins and veinlets of coarse calcite | 19519 | 605.5 607.5 | <0.01 | <0.01 | 0.13 | 0.06 | <0.003 |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ~~607.5~~ | | | | | |
| 612.0 | 613.5 | AMYGDALOIDAL BASALT | 19520 | 612.0 | 0.02 | <0.01 | 0.18 | 0.05 | 0.018 |
| | | cf. 566.5-564.5 | 19521 | 612.0 ~~613.5~~ | <0.01 | <0.01 | 0.05 | 0.02 | <0.003 |
| | | Core angle (upper contact of basalt) @ 612' 58° | | | | | | | |
| | | | | ~~613.5~~ | | | | | |
| 613.5 | 650.0 | DIOPSIDE-ACTINOLITE SKARN | 19522 | 617.0 | <0.01 | <0.01 | 0.14 | 0.03 | <0.003 |
| | | | 19523 | 617.0 ~~612.0~~ | <0.01 | <0.01 | 0.14 | 0.02 | <0.003 |
| | | Generally of 574.5-612.0; bleaching or alteration absent; | 19524 | 621.0 ~~626.0~~ | 0.08 | <0.01 | 0.26 | 0.11 | <0.003 |
| | | 621.2-622.3 Sulphide mineralization; po (magnetic), cpy, py, aspy, calcite | 19525 | 626.0 ~~630.0~~ | 0.03 | <0.01 | 0.10 | 0.04 | <0.003 |
| | | Sulphide vein @ 625.5 60° aspy, py minor fluor and calc. (3cm) | | | | | | | |
| | | @ 629 aspy w/ qtz., calc, fluor. | | | | | | | |
| | | Some sections of fine-grained green skarn w/ slight eff.; from 624-629.5' thin veinlets of act- | | | | | | | |
| | | inolite (1mmor less) run parallel or subparallel to the sulphide veins. | | | | | | | |
| | | Sulphide vein @ 630.5' 67° aspy, cpy, tourm., qtz. mnr. calc. (5cm); thin seams or veinlets | | | | | | | |
| | | (1mm) run parallel or subparalled to this major vein from 629.5 to the lower contact of the skarn. | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Sheet No

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 633.0-633.5 Breccia; coarse angular frags of skarn w/ infilling of coarse white calcite. | 19526 | 630.0 633.5 | <0.01 | <0.01 | 0.18 | 0.03 | <0.003 |
| | | From 633.5-640.5 garnet becomes quite coarse grained (subhedral)and prominent (pink-red colour); | 19527 | 633.5 640.5 | <0.01 | 0.11 | 0.14 | 0.05 | <0.003 |
| | | Sulphide vein @ 643 78° aspy, py tourm, calc (2cm) | 19528 | 640.5 645.0 | <0.01 | 0.04 | 0.07 | 0.04 | <0.003 |
| | | Below 645' thin interveds of quartzitic rock begin to appear (esp. mauve coloured 'muddy' bands) | 19529 | 645.0 650.0 | <0.01 | <0.01 | 0.05 | 0.02 | <0.003 |
| 650.0 | 656.0 | QUARTZITE | 19530 | 650.0 656.0 | 0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | Similar to top of hole; gray-freen to black; w/ mauve coloured muddy interveds (1-5mm); small bands (1-3cm) of 'banded' skarn; last 2' are brecciated, rusty white quartz. | | | | | | | |
| | | Some small bands of tourmaline; calcite and some fluorite in vein at 653' (2cm); sharp lower contact w/ granite. | | | | | | | |
| 656.0 | 751.0 | QTZ. MONZONITE | | | | | | | |
| | | Buff to light gray; fine grained (1mm or less); qtz-rich granitec rock; minor boitite as 1mm flakes; tourmalinized fractures; slightly greenish (alteration(?)); occasionally contains large qtz. eyes (up to 4mm); minor fluorite. | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| | | 656.0-658.5 Fluoritic granite; up to 20-25% fluorite as clusters of 1mm purple grains; very | 19531 | 656.0 658.5 | <0.01 | <0.01 | 0.03 | 0.01 | <0.003 |
| | | soft. | 19532 | 658.5 664.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | | 19533 | 664.0 669.0 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | 669.0-669.5 Band of tourmaline and chlorite(?) w/ pyrite. | 19534 | 669.0 674.0 | 0.03 | 0.01 | 0.01 | 0.01 | <0.003 |
| | | | 19535 | 674.0 679.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | 697.0-704.0 Altered ('bleached'(?)) granite. White to light brown; crumbly; lighter coloured | 19536 | 679.0 684.0 | 0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | than rest of granite. | 19537 | 684.0 689.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | | 19538 | 689.0 694.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | | 19539 | 694.0 699.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | | 19540 | 699.0 704.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | | 19541 | 704.0 709.0 | 0.01 | <0.01 | 0.02 | 0.05 | 0.020 |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-1 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -53° | Elev. 4942' | Length 751' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | | 19542 | 709.0 714.0 | <0.01 | <0.01 | 0.01 | 0.02 | 0.004 |
| | | | 19543 | 714.0 719.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | | 19544 | 719.0 724.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | End of hole 751'. | 19545 | 724.0 729.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | | 19546 | 729.0 734.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | Dip tests @ 202' 51° | 19547 | 734.0 739.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | @ 442' 51° | 19548 | 739.0 744.0 | <0.01 | <0.01 | <0.01 | 0.92 | <0.003 |
| | | @ 600' 50° | 19549 | 744.0 751.0 | <0.01 | <0.01 | <0.01 | 0.06 | <0.003 |
| | | @ 751' 50° | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | J.C. Property | District | Watson Lake M.D. | Hole No. | JC 81-2 | | |
| Commenced | 22 June 1981 | Location | Yukon Territory | Tests at | p.7 | Hor. Comp. | |
| Completed | 29 June 1981 | Core Size | BQ | Corr. Dip | 90° | Vert. Comp. | |
| Co-ordinates | 79 + 67E 92 + 14S | | | True Brg. | 360° | Logged by | G.D.L. |
| Objective | Test skarn horizon for Sn mineralization | | | % Recov. | | Date | 1 July 1981 |

Claim | T Brg. | Collar Dip 90° | Elev. 4942' | Length 852' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag | P |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.0 | CASING | | | | | | | | |
| 20.0 | 730.5 | QUARTZITE | | | | | | | | |
| | | Gray to greenish gray; some mauve coloured bands and section (argillaceous)' fine grained | | | | | | | | |
| | | some light gray cherty sections; occasional quartz veins parallel or subparallel to bedding; | | | | | | | | |
| | | argillaceous (mauve) bands show bedding direction; occasional calcite as narrow fracture filling. | | | | | | | | |
| | | 32.0-32.5 Brecciated qtz. vein. Milky white qtz. w/ rusty (sulphides(?)) hairline fractures | | | | | | | | |
| | | and spots. | | | | | | | | |
| | | 70.0 Qtz. vein w/ chlorite stringers (5cm) | 97501 | 70.0 76.0 | 0.01 | - | <0.01 | 0.02 | 0.01 | <0 |
| | | 72.0 Qtz. vein w/ chlorite stringers and specks of py, po | | | | | | | | |
| | | Core angle @71.5 32° | | | | | | | | |
| | | 77'-80' 3mm qtz. vein running parallel to length of core; joint filling(?). | | | | | | | | |
| | | Core angle @86.5 43°(?) | | | | | | | | |

211-9437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip 90° | Elev. 4942' | Length 852' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Fine fractures (hairline) filled w/ chlorite are sometimes noticeable. | | | | | | | | |
| | | 106.5' Qtz vein w/ spots of po; | | | | | | | | |
| | | 112'-113' Milky white, hairline brecciated qtz. vein; subvertical 3mm 'graphic' calcite veins; | 97502 | 110.0 117.0 | 0.06 | - | <0.01 | 0.02 | 0.09 | <0 |
| | | spots and stringers of po (py). | | | | | | | | |
| | | 152' Coarse white calcite vein subparallel (80°) to core length. | | | | | | | | |
| | | Core angle @ 109' 33° | | | | | | | | |
| | | Occasional corse gr calcite veins; usually parallel or at low angle to core length. | | | | | | | | |
| | | 199'-205' Slightly brecciated w/ numerous qtz stringers, a few large, vuggy qtz. veins; | 97503 | 199.0 205.0 | <0.01 | - | <0.01 | 0.02 | 0.01 | <0 |
| | | quartzite ranges from mauve to light gray and buff brown; sl. carbonate; some rusty patches | | | | | | | | |
| | | (sulphide(?)) | | | | | | | | |
| | | 251'-252' Brecciated greenish qtzite w/ calcite infilling | | | | | | | | |
| | | 254.5-255' Brecciated greenich qtzite w/ calcite infilling. | | | | | | | | |
| | | Core angle @ 261' 41° | | | | | | | | |

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Scale

Colour Plot & Dips

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip -90° | Elev. 4942' | Length 852' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 270' Milky white qtz vein w/ chloritic stringers and selvage; 5cm width; core angle 67° | | | | | | | | |
| | | 273'-273.5 (cf. 270') | | | | | | | | |
| | | 294'-306' Brecciated zone | 97504 | 290.0 295.0 | <0.01 | - | <0.01 | 0.02 | <0.01 | <0 |
| | | Angular frags of greenish qtzite w/ numerous qtz. stringers and calcite stringers; from 302' it | 97505 | 295.0 300.0 | <0.01 | - | <0.01 | 0.03 | 0.01 | <0. |
| | | is brownish and rusty w/ tiny black (chlorite(?)) stringers; last 2ft. are mauve-green qtzite | 97506 | 300.0 305.0 | <0.01 | - | 0.02 | 0.02 | 0.03 | <0. |
| | | w/ darker spots and speckles of 1-3mm; rock immediately above this zone (about 5') seems shat- | 97507 | 305.0 310.0 | <0.01 | - | <0.01 | 0.03 | 0.01 | <0 |
| | | tered but is not infilled with stringers of qtz. or calcite. | 97508 | 310.0 315.0 | <0.01 | - | <0.01 | 0.02 | 0.01 | <0 |
| | | | 97509 | 315.0 320.0 | <0.01 | - | <0.01 | 0.02 | 0.01 | <0 |
| | | 315' 1 cm qtz. vein w/ spots of po.; chloritec spots in qtzite may also contain po. | | | | | | | | |
| | | 351.5-352.5 Breccia zone; angular frags. of greenish qtzite infilled w/ calcite | | | | | | | | |
| | | Core angle @ 373.5' 22° | | | | | | | | |
| | | Core angle @ 383' 28° | | | | | | | | |
| | | 395.5-409.0 Breccia zone; shattered and brecciated quartz and quartzite w/ some rusty (sulphide | 97510 | 395.0 400.0 | <0.01 | <0.001 | <0.01 | 0.02 | <0.01 | <0 |
| | | (?)) infilling | 97511 | 400.0 405.0 | <0.001 | <0.01 | 0.01 | 0.02 | 0.16 | <0 |
| | | | 97512 | 405.0 410.0 | 0.01 | <0.001 | 0.01 | 0.02 | 0.07 | <0. |

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Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip 90° | Elev. 4942' | Length 852' | Sheet No.

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 409.0'-440.0 Predominantly white or light gray quartzite; often shattered or brecciated w/ | 97513 | 410.0 415.0 | 0.01 | 0.001 | 0.01 | 0.02 | 0.07 | <0 |
| | | rusty infilling; some sections of dark gray quartzite; small (broken) section at 430' shows | 97514 | 415.0 420.0 | <0.01 | <0.001 | <0.01 | 0.01 | 0.01 | <0 |
| | | 2-4mm cubes of py in a light gray quartzite; definite breccia frags @ 434.5-435; minor moly on | 97515 | 420.0 425.0 | <0.01 | <0.001 | <0.01 | 0.02 | 0.03 | <0 |
| | | joints. | 97516 | 425.0 430.0 | <0.01 | <0.001 | <0.01 | 0.02 | 0.03 | <0 |
| | | | 97517 | 430.0 435.0 | <0.01 | <0.001 | <0.01 | 0.02 | <0.01 | <0 |
| | | ;dark greenish gray quartzite below 440'; often broken or brecciated w/ carbonate or siliceous | 97518 | 435.0 440.0 | <0.01 | <0.001 | 0.01 | <0.01 | 0.01 | <0 |
| | | infilling; | 97519 | 440.0 445.0 | <0.01 | <0.001 | 0.01 | 0.01 | 0.05 | <0 |
| | | | 97520 | 445.0 450.0 | <0.01 | <0.001 | 0.02 | 0.01 | 0.01 | <0 |
| | | Core angle @ 450' 32° | | | | | | | | |
| | | | | | | | | | | |
| | | 484.5-485.5 White qtz. vein w/ some chlorite; py coatings on some broken surfaces | | | | | | | | |
| | | | | | | | | | | |
| | | Core angle @ 477' 19° | | | | | | | | |
| | | Core angle @ 495' 22° | | | | | | | | |
| | | Core angle @ 523' 27° | | | | | | | | |
| | | | | | | | | | | |
| | | 524'-526' Small section w/ po/py spots in gray qtzite. | | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip 90° | Elev. 4942' | Length 852'

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag |
|---|---|---|---|---|---|---|---|---|---|
| | | 532.5'-533.5 Brecciated qtzite w/ chloritic infilling. | | | | | | | |
| | | 536-539 Chloritic qtz. vein | | | | | | | |
| | | 602-604 Slightly brecciated; light gray qtzite; rusty infilling | | | | | | | |
| | | | | 605.0 | | | | | |
| | | 610.5-624 Light gray quartzite; shattered to brecciated; rusty veinlets, infillings and hairline | 97521 | 610.0 | <0.01 | - | 0.01 | 0.01 | <0.01 |
| | | fractures some visible py in parts. | 97522 | 615.5 | <0.01 | - | 0.01 | 0.01 | <0.01 |
| | | | 97523 | 620.0 | <0.01 | - | 0.01 | 0.01 | <0.01 |
| | | | 97524 | 620.0 | <0.01 | - | 0.02 | 0.01 | 0.01 |
| | | | | 625.0 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | ; occasional py coating on joints and fractures; below 625' qtzite is often slightly biotitic; | | 700.0 | | | | | |
| | | increasingly biotitic toward lower contact; below 709' qtzite is quite chloritic w/ green chl- | 97525 | 705.0 | <0.01 | - | 0.02 | <0.01 | <0.01 |
| | | orite concentrated on joints and fractures; | 97526 | 710.0 | <0.01 | - | 0.01 | <0.01 | 0.01 |
| | | | 97527 | 715.0 | <0.01 | - | 0.02 | 0.01 | 0.01 |
| | | 722.5-723.5 Patches of dark brown, granular tourmaline(?) or biotite in greenish (chloritic) | 97528 | 720.0 | <0.01 | - | 0.01 | <0.01 | <0.01 |
| | | qtzite; dissem. py and arspy mineralization. | 97529 | 726.5 | <0.01 | - | 0.01 | 0.01 | <0.01 |
| | | | 97530 | 730.5 | <0.01 | - | <0.01 | <0.01 | <0.01 |
| | | 726.5-730.5 Milky white, chloritic qtz vein. | 97531 | 735.0 | <0.01 | - | <0.01 | <0.01 | <0.01 |
| | | | 97532 | 740.0 | <0.01 | - | <0.01 | <0.01 | <0.01 |
| | | | | | | | | | |
| | | | | | | | | | |
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211-943

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip -90° | Elev. 4942' | Length 852' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | WO3 | Sn | Ag | |
|---|---|---|---|---|---|---|---|---|---|---|
| 730.5 | 852.0 | PORPHYRITIC GRANITE (?) | 97533 | 740.0 745.0 | <0.01 | - | <0.01 | 0.01 | 0.01 | <0 |
| | | | 97534 | 745.0 750.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | Greenish porghyritic granite' ang. grain size 1-2 mm; large phenocrysts of yellowish | 97535 | 750.0 755.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | feldspar up to 1cm; quartz phenos. aug 5mm; sl. finer gr. at top contact; dissem. arspy and py | 97536 | 755.0 760.0 | <0.01 | - | <0.01 | 0.01 | <0.01 | <0 |
| | | as euhedral crystals ang 1mm; green colour is probably f.gr. chlorite; black spots of biotite | 97537 | 760.0 765.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | 2-3mm, are found in some sections; fine stringers of chlorite are common; occasional fractures | 97538 | 765.0 770.0 | <0.01 | - | <0.01 | 0.01 | 0.15 | <0 |
| | | show black schorl; yellow phenos give some sections a distinct greenish-yellow colour | 97539 | 770.0 775.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97540 | 775.0 780.0 | <0.01 | - | <0.01 | 0.02 | <0.01 | <0 |
| | | | 97541 | 780.0 785.0 | <0.01 | - | <0.01 | 0.01 | <0.01 | <0 |
| | | | 97542 | 785.0 790.0 | <0.01 | - | 0.02 | 0.01 | <0.01 | <0 |
| | | | 97543 | 790.0 795.0 | <0.01 | - | 0.02 | 0.01 | <0.01 | <0 |
| | | | 97544 | 795.0 800.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97545 | 800.0 805.0 | <0.01 | - | <0.01 | 0.01 | <0.01 | <0 |
| | | | 97546 | 805.0 810.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97547 | 810.0 815.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97548 | 815.0 820.0 | <0.01 | - | <0.01 | 0.01 | <0.01 | <0 |
| | | | 97549 | 820.0 825.0 | <0.01 | - | <0.01 | 0.01 | <0.01 | <0 |
| | | | 97550 | 825.0 830.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97551 | 830.0 835.0 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0 |
| | | | 97552 | 835.0 840.0 | <0.01 | - | 0.01 | <0.01 | <0.01 | <0 |
| | | | 97553 | 840.0 845.0 | <0.01 | - | <0.01 | <0.01 | <0.01 | <0 |
| | | | 97554 | 845.0 852.0 | <0.01 | - | <0.01 | 0.02 | <0.01 | <0 |

Scale

Colour Plot & Clips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-2 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. | Collar Dip 90° | Elev. 4942' | Length 852' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| | | | | | |
| | | E.O.H. @ 852' | | | |
| | | | | | |
| | | Dip test @ 202' 89° | | | |
| | | @ 852' 86° | | | |

211-9437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | J.C. Property | District | Watson Lake M.D. | Hole No. | JC 81-3 | | |
| Commenced | 1 July 1981 | Location | Yukon Territory | Tests at | p.11 | Hor. Comp. | |
| Completed | 7 July 1981 | Core Size | BQ | Corr. Dip | -70°N | Vert. Comp. | |
| Co-ordinates | 84 + 00E 92 + 25 N | | | True Brg. | 360° | Logged by | G.D.L. |
| Objective | Test skarn horizon for Sn mineralization | | | % Recov. | | Date | 8 July 1981 |

Claim | T Brg. 360° | Collar Dip -70° | Elev. 5954.08' | Length 865' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 0.0 | 10.0 | CASING | | | |
| 10.0 | 52.5 | QUARTZITE | | | |
| | | Gray to gray-green; some bands and sections of mauve coloured (argillaceous) quartzite; fine grained; banding seems to reflect original bedding; may be slightly chloritic in parts | | | |
| | | Core angle @ 13' 23° | | | |
| | | 26.5 3cm milky white. chloritic qtz vein. | | | |
| 52.5 | 58.0 | LAPILLI TUFF(?) | | | |
| | | Gray to rusty brown; fine gr. siliceous rock; contains numerous irregular parallel to subparallel bands, 1mm-5mm width; fragments elongate parallel to banding. | | | |
| 58.0 | 107.5 | QUARTZITE | | | |
| | | (cf. 10.0-52.2) | | | |
| | | Occasional spots of po usually associated w/ smalls clots of chlorite; some small (usually about 5-10 cm) sections of core appear to have been contorted by soft sed. slumping or by folding. | | | |

Scale

Colour Plot
A Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70° | Elev. 5054.08' | Length 865' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 107.5 | 114.0 | BIOTITE QUARTZ-FELDSPAR PORPHYRY | 97555 | 107.5 111.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.005 |
| | | Gray BIOTITE QFP; groundmass is gray to bluish gray; biotite phenocrysts (1-3mm) are | 97556 | 111.0 114.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.005 |
| | | brown-black (brown on polished surface of core); feldspars are slightly elogate (up to 3 or 4 | | | | | | | |
| | | mm long); qtz. phenos are bluish white or gray (2-4mm aug); rounded grains of po (sl. magn.) | | | | | | | |
| | | esp. near upper contacts (aug 1-2mm, largest is 1cm); lower 1ft. is finer gr. w/ fewer phenoc- | | | | | | | |
| | | rysts (chilled margin(?)); upper contact is distinct @ 45°, also shows slip fault (1.5cm displ.) | | | | | | | |
| | | parallel to core edge. | | | | | | | |
| | | | | | | | | | |
| 114.0 | 288.5 | QUARTZITE | | | | | | | |
| | | (cf. 58.0-107.5) | | | | | | | |
| | | Core angle @ 118' 18° | | | | | | | |
| | | | | | | | | | |
| | | 122.5' Rusty qtz vein. (3cm) | | | | | | | |
| | | 129.5 Milky white, chloritic qtz. vein. (4cm) | | | | | | | |
| | | 154' Milky white qtz vein w/ rusty hairline fracts. (6cm) | | | | | | | |
| | | | | | | | | | |
| | | 165-165.5 Small rusty section which may be equivalent to LAPILLI TUFF unit of 52.5-58.0. | | | | | | | |
| | | | | | | | | | |
| | | Core angle @ 163' 7° | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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Scale

Colour Plot
& Dips

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# Drill Hole Rec rd

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70°? | Elev. 5054.08' | Length 865' | Sheet | File No

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| | | 187'-197' Light gray white cherty section; slightly pinkish or greenish (chlorite) in parts; | | | |
| | | fine (1-5mm) parallel to subparallel bands of mauve (argillaceous) qtzite in parts. | | | |
| | | | | | |
| | | Core angle @ 188' 6° | | | |
| | | | | | |
| | | 199.0-201.5 Small dark brown section, elongate frags up to 2cm by 4mm; equivalent to LAPILLI | | | |
| | | TUFF of 52.5-58.0'; frags are light grey, siliceous. | | | |
| | | | | | |
| | | 197.0-242.0 QUARTZITE is a 'marble cake' hybrid of regular quartzite and the cherty unit of | | | |
| | | 187'-197'; pinkish-greenish sections of cherty comprise about 30% of the rock unit as irregular | | | |
| | | patches. | | | |
| | | | | | |
| | | ;occasional small blebs of po w/ chlorite | | | |
| | | | | | |
| 288.5 | 301.0 | AMYGDALOIDAL BASALT | | | |
| | | Dark black with brown patches (weathered(?)); round, white calcite filled amygdules | | | |
| | | (1-3mm); whole unit is slightly magnetic; several thin calcite stringers; snakk (1-3mm) black | | | |
| | | phenocrysts glass(?); very small (less than 1mm) phenocrysts of plag.(?) sometines visible; | | | |
| | | lower contact @ approx. 70°; lower contact has 3cm of orange-cream coloured brecciation. | | | |
| | | | | | |
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211-9437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70°? | Elev. 5054.08' | Length 865' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 301.0 | 685.0 | QUARTZITE | | | |
| | | (cf. 114.0-285.0) | | | |
| | | | | | |
| | | Core angle @ 307' 3° | | | |
| | | Core angle @ 379' 2° | | | |
| | | | | | |
| | | 398'-400' Broken core | | | |
| | | 404.5'-407' Broken core | | | |
| | | | | | |
| | | 407.0'-432.5' 'Marble texture' rock (quartzite) cf. 197.0-242.0'; sometimes slightly fractured | | | |
| | | or brecciated. | | | |
| | | | | | |
| | | Core angle @ 446' 11° | | | |
| | | | | | |
| | | 453' A few large (1cm) irregular blebs of po w/ chlorite. | | | |
| | | | | | |
| | | Core angle @461' 6° | | | |
| | | | | | |
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211-8437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70° | Elev. 5,054.08' | Length 865' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Zn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 464.0-465.0 Possibly LAPILLI TUFF, (cf. 52.5-58.0); dark brown and mauve w/ a few grayish | | | | | | | |
| | | frags.(?) of 5-10mm. | | | | | | | |
| | | | | | | | | | |
| | | 494.0-494.5 Breccia zone, white to pale green; large angular qtz. frags. (1mm-10mm); matrix is | | | | | | | |
| | | about 75%; matrix mostly qtz. | | | | | | | |
| | | | | | | | | | |
| | | 506.0'-508.0' Pale green qtzite w/ brown speckles; brown is 1-2mm grains of biotite; gives | | | | | | | |
| | | qtzite a 'robin's egg' appearance. | | | | | | | |
| | | | | | | | | | |
| | | 542.0-542.5' Chloritix qtz. vein (quartz 'sweat'(?)); quartzite occasionally shows irreg. veins | | | | | | | |
| | | of qtz. which may be metamorphic in origin; often w/ assoc. po/py. | | | | | | | |
| | | 632.5-634.0 Chloritic qtz. vein; as above. | | | | | | | |
| | | 637.0-638.0' Chloritic qtz. vein; as above. | | | | | | | |
| | | | | | | | | | |
| | | ; Below about 660' QUARTZITE may show occasional irreg. grains of pink-red garnet(?) of a few | | | | | | | |
| | | mm in size (may be argillaceous material) | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | 97557 | 660.0 665.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | | 97558 | 665.0 670.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70° | Elev. 5054.08' | Length 865' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 674.5-685.0' Cloudy gray-white quartz; very fine gr., veinlike; fine irregular blebs and stri- | 97559 | 670.0 674.5 | 0.02 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | gers of chlorite throughout; seeems to be melted contact between granite and quartzite; coatings | 97560 | 674.5 680.0 | 0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | of py on joints. | 97561 | 680.0 685.0 | 0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | | | | | | | |
| | | 674.5 1cm chalcopy/po vein | | | | | | | |
| | | 675.0 1cm po/cyp/moly(?) vein @ 57° | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 685.0 | 698.0 | QUARTZ MONZONITE | | | | | | | |
| | | | 97562 | 685.0 690.0 | <0.01 | 0.02 | <0.01 | <0.01 | <0.003 |
| | | Light bluish gray, sl. greenish in parts; aug. grain size about 1mm; speckled w/black | 97563 | 690.0 694.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | biotite flakes (1-2mm); shows melted irreg. contact w/ qtzite above; scattered gray qtz. eyes | 97564 | 694.0 698.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | up to 4mm; greenish colour may be epidote; becomes greener and coarser grained towards 695' | | | | | | | |
| | | where large (1cm) crystals of purple fluorite occur. | | | | | | | |
| | | | | | | | | | |
| 698.0 | 703.0 | QUARTZITE | 97565 | 698.0 703.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | Green and mauve qtzite; irregular and patchy mauve coloured bands; somewhat chloritic esp. | | | | | | | |
| | | towards lower contact; some cloudy qtz. veins or 'sweats'. | | | | | | | |
| | | | | | | | | | |
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Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70° | Elev. 5054.08' | Length 865.1' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 703.0 | 708.0 | QTZ. MONZONITE | 97566 | 703.0 708.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | (cf. 685.0-698.0); again coarsening and becoming greener toward 704'; light green joint | 97567 | 708.0 713.0 | <0.01 | 0.30 | 0.02 | 0.05 | <0.003 |
| | | fillings of a talcose mineral; biotite does not seem to occur in coarser gr. sections. | 97568 | 713.0 718.0 | <0.01 | <0.01 | 0.02 | 0.05 | <0.003 |
| | | | 97569 | 718.0 724.0 | <0.01 | <0.01 | 0.02 | 0.05 | <0.003 |
| 708.0 | 819.0 | GARNET-ACTINOLITE-DIOPSIDE SKARN | | | | | | | |
| | | Lighter green diopside-rich skarn w/ actinolite-rich bands occuring a darker green | | | | | | | |
| | | irregular 'tiger-stripes' (1-10mm aug. width); garnets as wide (often several cm.) pink-red | | | | | | | |
| | | gobs and stripes in some sections; occasional spots of black prismatic tourm. and white calcite | | | | | | | |
| | | also spots of light green epidote(?). | | | | | | | |
| | | Core angle @ 722' 21° (comp. banding) | 97570 | 724.0 729.0 | <0.01 | 0.01 | 0.05 | 0.01 | <0.003 |
| | | 708.0-724.0 Predominantly 'tiger stripe' actinolite-diopside. | 97571 | 729.0 734.0 | <0.01 | 0.02 | 0.05 | 0.01 | <0.003 |
| | | 724.0-804.0 Garnetiferous; very minor garnet above this zone; actinolite becomes minor to absent; | 97572 | 734.0 739.0 | <0.01 | <0.01 | 0.09 | 0.01 | <0.003 |
| | | tourm. and cale. spots still noted; garnets as coarse grain aggregates; comp. banding is far | 97573 | 739.0 744.0 | <0.01 | <0.01 | 0.11 | 0.01 | <0.003 |
| | | less pronounced; some qtz. x/5 w/ cale and tourm in spots; often hex. euhedral (up to 8mm) | 97574 | 744.0 749.0 | <0.01 | <0.01 | 0.09 | 0.01 | <0.003 |
| | | | 97575 | 749.0 754.0 | <0.01 | <0.01 | 0.04 | 0.01 | <0.003 |
| | | | 97576 | 754.0 759.0 | <0.01 | <0.01 | 0.09 | 0.01 | <0.003 |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

| Claim | T Brg. | Collar Dip | Elev. | Length |
|---|---|---|---|---|
| | 360° | -70° | 5054.08' | 865' |

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | | 97577 | 759.0 764.0 | <0.01 | <0.01 | 0.15 | 0.03 | <0.003 |
| | | | 97578 | 764.0 769.0 | <0.01 | 0.34 | 0.19 | 0.03 | <0.003 |
| | | 745.5 10cm section of coarse gr. purple axinite, fluorite, calcite, epidote(?) garnet w/ minor | 97579 | 769.0 774.0 | <0.01 | <0.01 | 0.21 | 0.03 | <0.003 |
| | | actionlite. | 97580 | 774.0 779.0 | <0.01 | <0.01 | 0.15 | 0.03 | <0.003 |
| | | | 97581 | 779.0 784.0 | <0.01 | 0.01 | 0.09 | 0.03 | <0.003 |
| | | A few thin graphic calcite veins (1-2mm) w/ thin black(?) selvage; some minor arspy as small | 97582 | 784.0 789.0 | <0.01 | 0.03 | 0.02 | 0.05 | <0.003 |
| | | 1mm grains in parts; garnets seem to change from pink-red to orange toward bottom of section; | 97583 | 789.0 794.0 | <0.01 | 0.03 | 0.01 | 0.05 | <0.003 |
| | | last 20' displays blebs and spots of clear coarse gr. fluorite and qtz., core also becomes less | 97584 | 794.0 799.0 | <0.01 | 0.05 | <0.01 | 0.05 | <0.003 |
| | | garnet; ferous in last 20'. | 97585 | 799.0 804.0 | <0.01 | 0.32 | 0.01 | 0.05 | <0.003 |
| | | | 97586 | 804.0 809.0 | <0.01 | 0.03 | <0.03 | 0.03 | <0.003 |
| | | | 97587 | 809.0 814.0 | <0.01 | 0.03 | 0.02 | 0.03 | <0.003 |
| | | | 97588 | 814.0 819.5 | <0.01 | 0.01 | 0.09 | 0.07 | <0.003 |
| | | 815.0-819.5 Clrar glassy qtz. w/ come fluorite may constitute up to 50% of the rock; skarn | | | | | | | |
| | | minerals (mostly diopside) seem to float in veinlike matrix of qtz. | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

| Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet |
|---|---|---|---|---|---|---|
| | 360° | -70° | 5054.08' | 865' | | |

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 819.5 | 827.5 | QUARTZITE | 97589 | 819.5 823.5 | <0.01 | 0.01 | 0.03 | 0.03 | <0.003 |
| | | Gray-green and mauve quartzite; where present, banding is broad and irregular; a few narrow | 97590 | 823.5 827.5 | 0.01 | 0.02 | <0.01 | 0.01 | <0.003 |
| | | veins w/ purple fluorite and calcite; py on joint coating; broadly similar to unaltered bandied | | | | | | | |
| | | quartzite at top of hole but has overall 'melted' appearance. | | | | | | | |
| | | | | | | | | | |
| 827.5 | 862.5 | PORPHYRITIC GRANITE(?) | | | | | | | |
| | | Mauve and green porphyritic granite; greenish-yellow feldspar phenos. often larger than | 97591 | 827.5 832.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | 1cm; 2-3mm flakes of biotite (and some chlorite) scattered throughout; aome 'schorly' joints | 97592 | 832.0 837.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | and patches of coarse black tourmaline; a few large (3-4mm) grayish qtz. eyes; some sections | 97593 | 837.0 842.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | are gray and less porphyritic w/ only a few large feldspar phenos and qtz eyes; occasional | 97594 | 842.0 847.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | spots of purple fluorite and fluoritic joint coatings; some joints are coated w/ talcose | 97595 | 847.0 852.0 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 |
| | | material. | 97596 | 852.0 857.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97597 | 857.0 862.5 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | | | | | | | |
| | | Occasional high angle joints and; coarse porghyritic granite to about 836'; below 836' granite | 97598 | 862.5 865.0 | 0.06 | <0.01 | 0.01 | 0.05 | <0.003 |
| | | is grayer, finer gr. QTZ. MONZONITE; still shows feld. phenos and qtz eyes; gray, f.gr. granite | | | | | | | |
| | | often has a 'bleached' white appearance; grayer, f. gr. sections seem less biotitic. | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-3 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -70°2 | Elev. 5054.08' | Length 865' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | E.D.H 865' | | | |
| | | | | | |
| | | Dip tests @ 512' 70° | | | |
| | | @ 700' 70° | | | |
| | | @ 865' 69° | | | |

211-9437

Scale

Colour Plot & Dips

# Drill Hole Record

Cominco

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | J.C. Property | District | Watson Lake M.D. | Hole No. | JC 81-4 | | |
| Commenced | 9 July 1981 | Location | Yukon Territory | Tests at | p. 10 | Hor. Comp. | |
| Completed | 17 July 1981 | Core Size | BQ | Corr. Dip | -70° | Vert. Comp. | |
| Co-ordinates | 88 + 91E 91 + 38 N | | | True Brg. | 360° | Logged by | G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | | Date | 16 July 1981 |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | CASING | | | | | | | |
| 10.0 | 96.0 | QUARTZITE | | | | | | | |
| | | Largely light gray w/ irregular mauve coloured (argillaceous) interbeds; mauve sections are easily visible in gray sections; some lighter gray cherty sections; minor po as specks and spots throughout; occasional minor chlorite in small veinlets and as joint fillings. | | | | | | | |
| | | Core angle @ 95' 9° | | | | | | | |
| 96.0 | 101.0 | BIOTITE QUARTZ-FELDSPAR (PORPHYRY) | 97599 | 96.0 101.0 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | Strongly resembles a f. gr. version of the BIOTITE Q.F.P. unit in JC 81-3; light gray; speckled w/ brownish 1mm spots of biotite; phenocrysts of qtz. or feld. are not readily visible; minor po and py dissem. throughout; trace cpy as small blebs (1mm); sl. chloritic w/ one 1cm pocket of green chlorite and dissem. sulphides; sulphide filled fractures and small veinlets in quartzite directly below 101.0'. | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 101.0 | 211.5 | QUARTZITE | | | |
| | | Generally cf. 10.0-96.0; often contains thin darker coloured bands that are irregular and | | | |
| | | folded or weblike (hornfels type texture); mnr po still common; occasional green chloritic vein- | | | |
| | | lets, spots or joint fillings; occasional white patches of a few cm. may be limey interbeds | | | |
| | | (but do not effervesce); several of these light coloured interbeds from 173'-177', often | | | |
| | | pinkish or greenish w/ some chlorite and po/py; | | | |
| | | | | | |
| | | Core angle @172' $10^{o}$ | | | |
| | | | | | |
| | | Occasional qtz. veins or 'sweats' of 1-5cm, often chloritic; | | | |
| | | Core angle @ 203' $9^{o}$ | | | |
| | | | | | |
| 211.5 | 213.0 | LAPILLI TUFF(?) | | | |
| | | Light gray quartzitic rock; on polished surface of core light gray qtzitic frags(?) are | | | |
| | | visible; frags(?) aug. 3-5mm by 10-20mm and are elongated parallel to apparent bedding; not | | | |
| | | rusty like LAPILLI TUFF units of JC 81-2, 3; a few thin qtz/calcite stringers; sections are | | | |
| | | somewhat chloritic; frags are rounded or ovoid in shape and often separated by thin weblike | | | |
| | | stringers of darker coloured material. | | | |
| | | | | | |
| 213.0 | 218.5 | QUARTZITE | | | |
| | | cf. 101.0-211.5 | | | |
| | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Sheet No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 218.5 | 220.0 | LAPILLI TUFF(?) | | | |
| | | cf. 211.5-213.0 | | | |
| | | | | | |
| 220.0 | 324.5 | QUARTZITE | | | |
| | | Generally cf. 101.0-211.5; mauve coloured bands and sections becoming more common; often | | | |
| | | quite massive w/ no banding; occasional qtz 'sweats' up tp 20cm, usually chloritic w/ chloritic | | | |
| | | selvedges and minor po/py as small blebs. | | | |
| | | | | | |
| 324.5 | 347.0 | AMYGDALOIDAL BASALT | | | |
| | | Black w/ brownish patches; speckled w/ white, calcite filled amygdules (1-2mm); | | | |
| | | occasional thin calcite stringers; also speckled w/ small black glassy(?) grains of less than | | | |
| | | 1mm; some larger amygdules are filled w/ a green talcose mineral; parts of unit are weakly | | | |
| | | magnetic; calcite stringers may also carry green talcose mineral (talc(?)); lower contact | | | |
| | | appears to be at a steep angle, roughly $80^{o}$ ; little brecciation at either contact. | | | |
| | | | | | |
| 347.0 | 407.0 | QUARTZITE | | | |
| | | cf. 220.0-324.5 | | | |

Scale

Colour Plot & Dips

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| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim J.C. | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Sheet No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| 407.0 | 412.0 | BRECCIA-CONGLOMERATE | | | | | | | |
| | | Polymictic; large angular frags of mauve and green gray qtzite up to 2 or 3 cm; smaller | | | | | | | |
| | | angular frags of these rocks and white qtz down to 1mm and less; fragment supported, up to 90% | | | | | | | |
| | | frags; may be quite calcareous in sections; underlying quartzite is brecciated for about 5' w/ | | | | | | | |
| | | qtz and calcareous infilling; upper contact w/ qtzite seems quite sharp; | | | | | | | |
| | | | | | | | | | |
| 412.0 | 461.0 | QUARTZITE | | | | | | | |
| | | cf. 220.0-324.5; quite often mauve coloured (argillaceous); small section of BRECCIA- | | | | | | | |
| | | CONGLOMERATE at 425.0-425.5. | | | | | | | |
| | | Core angle @ 443' 23° | | | | | | | |
| | | | | | | | | | |
| 461.0 | 465.0 | BIOTITE QUARTZ-FELDSPAR(PORPHYRY) | | | | | | | |
| | | Very similar to 96.0-101.0; bluish-gray; large (1-3mm) spots of brown biotite scattered | 97600 | 461.0 465.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | throughout; py/po in thin, discontinuous veinlets; biotite spots are often rectangular and | | | | | | | |
| | | lathlike (phenocrysts). | | | | | | | |
| | | | | | | | | | |
| 465.0 | 577.0 | QUARTZITE | | | | | | | |
| | | cf. 412.0-461.0 | | | | | | | |
| | | | | | | | | | |
| | | 516.0-522.0 Resembles 'marble-cake' hornfels of JC 81-3 | | | | | | | |
| | | | | | | | | | |
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Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360° | Collar Dip -70° | Elev. 5168.9' | Length 878'

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 577.0 | 583.0 | BIOTITE QUARTZ-FELDSPAR PORPHYRY | 97601 | 577.0 583.0 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | Very similar to 461.0-465.0; small 4cm xenolith of mauve and green QUARTZITE at 577.5; top contact w/ QUARTZITE @ approx. 60°; dissem. po/py | | | | | | | |
| 583.0 | 601.0 | QUARTZITE | | | | | | | |
| | | Generally cf. 465.0-577.0; increasing number of chloritec quartz 'sweats'. | | | | | | | |
| 601.0 | 602.0 | BIOTITE Q.F.P. | | | | | | | |
| | | cf. 577.0-583.0 | | | | | | | |
| 602.0 | 741.5 | QUARTZITE | | | | | | | |
| | | cf. 583.0-601.0 | | | | | | | |
| * | | 670.0-741.5 Banded chlorite-biotite bearing rock; biotite as thin veins of 1mm flakes esp. | 97602 | 702.0 708.0 | <0.01 | <0.01 | <0.01 | <0.01 | 0.003 |
| | | w/ qtz. sweats; small (1mm) garnets also occur w/ qtz and bio; some py; some small qtz. veins | 97603 | 708.0 715.0 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | (616') give pale green fluorescence; QUARTZITE from 610' down bears various proportions of | 97604 | 715.0 722.0 | <0.01 | 0.01 | <0.01 | 0.01 | <0.003 |
| | | chlorite, biotite and some garnet; banding is not usually apparent or is streaky and irregular; | 97605 | 722.0 729.0 | <0.01 | 0.01 | <0.01 | <0.01 | 0.004 |
| | | thin bands of biotite may sometimes parallel original bedding; large (3-4mm) spots of scheelite | 97606 | 729.0 734.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | in qtz. veins below 739.5. | 97607 | 734.0 738.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97608 | 738.0 741.5 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| *741.5 | 747.5 | QTZ. MONZONITE | | | | | | | |
| | | Pale greenish to light gray; aug. grain size approx. 1-2mm; speckled w/ black biotite | 97609 | 741.5 747.5 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | flakes (½-1mm aug.); afew large qtz. eyes up to 5mm; throughout section pale yellow biotite | | | | | | | |
| | | free stripes (fractures or veins) cross core @ 43° | | | | | | | |
| | | | | | | | | | |
| *747.5 | 752.0 | QUARTZITE | | | | | | | |
| | | Very similar to 610.0-741.5; melted appearance; a few small spots of scheelite; | 97610 | 747.5 752.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | | | | | | | | |
| *752.0 | 754.0 | QTZ. MONZONITE | 97611 | 752.0 754.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | cf. 741.5-747.5 | | | | | | | |
| | | | | | | | | | |
| 754.0 | 760.0 | QUARTZITE | 97612 | 754.0 760.0 | <0.01 | 0.02 | <0.01 | <0.01 | <0.003 |
| | | cf. 747.5-752.0 small section of GRANITE @ 756.0-756.5 | | | | | | | |
| | | | | | | | | | |
| *760.0 | 780.0 | QTZ. MONZONITE | 97613 | 760.0 765.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | Generally cf. 741.5-747.5; some sections are pale yellowish colour (like cross cutting | 97614 | 765.0 770.0 | <0.01 | <0.01 | 0.02 | 0.01 | <0.003 |
| | | veins or fractures described above); large yellowish (3-5mm) squarish feld. phenos. are occas- | 97615 | 770.0 775.0 | <0.01 | <0.01 | 0.02 | 0.01 | <0.003 |
| | | ionally visible; below 766.5' thin black tourmaline veins or fractures filling crosscut the | 97616 | 775.0 780.0 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 |
| | | core @ approx. 33°; yellowish crosscutting veins fade-out, trace dissem. py near bottom of | | | | | | | |
| | | section. | | | | | | | |
| | | | | | | | | | |
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211-9437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

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|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -76 | Elev. 5168.9' | Length 878' | Sheet | Hole No.

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| **780.0 | 830.0 | SKARN | | | | | | | |
| | | Extremely variable in colour and proportions of major constituent minerals (garnet, diopside actinolite); large sections are light yellowish green to pink green diopside-garnet skarn; these sections often contain irregular subangular 'spots' of actinolite and/or tourmaline similar to be SPOTTED SKARN of JC 81-1; darker green sections of garnet-diopside skarn conatain large patches of actinolite and/or tourmaline; these sections also contain thin parallel to sub-parallel veinlets of actinolite/tourmaline; py and cpy occur in groups of thin parallel veinlets w/ actinolite; large (1cmor more) grains of purplish fluorite may occur w/ sulphides; purplish axinite is also observed occasionally as large bladed crystals | | | | | | | |
| | | 780.0-783.0 Pyrite and lesser cpy throughout, dissem and in thin, close-spaced veinlets w/ actinolite crosscutting core @ 64°; also large (1cm or more) rounded grains of fluorite; large (up to 1cm) grains of pink-red garnet; weakly magnetic (contains some po and/or magn.); trace arspy(?). | 97617 | 780.0 783.0 | 0.05 | 0.02 | 0.05 | 0.09 | <0.003 |
| | | | 97618 | 783.0 788.0 | <0.01 | <0.01 | 0.15 | 0.05 | <0.003 |
| | | | 97619 | 788.0 793.0 | <0.01 | <0.01 | 0.19 | 0.05 | <0.003 |
| | | 783.0-802.0 Largely SPOTTED SKARN; varying proportions of garnet and diopside w/ actin. and tourm in 'spots'. | | | | | | | |

211-943

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

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|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 796.0-796.5 Section w/ about 80% dark green actinolite; cpy as small blebs (about 3-4%); | 97620 | 793.0 798.0 | 0.31 | <0.01 | 0.63 | 0.58 | <0.003 |
| | | large pink-red garnet grains; slightly magnetic throughout. | 97621 | 798.0 802.0 | <0.01 | <0.01 | 0.19 | 0.06 | <0.003 |
| | | | 97622 | 802.0 807.0 | 0.02 | <0.01 | 0.15 | 0.06 | <0.003 |
| | | 802.0-828.0 Largely GARNET-DIOPSIDE SKARN; very few 'spots'; somewhat finer gr. on aug than | | | | | | | |
| | | above; still has larger 'patches' of actinolite. | | | | | | | |
| | | 807.0-808.5 About 75% massive to fibrous/acicular dark green actinolite; a few large (up | 97623 | 807.0 808.5 | 0.23 | 0.02 | 0.94 | 0.46 | <0.003 |
| | | to 1cm) pink-red garnets crystals; about 20% reddish bronze po as irreg grains 1-3mm; | 97624 | 808.5 813.5 | <0.01 | <0.01 | 0.13 | 0.03 | <0.003 |
| | | lesser cpy as small blebs; po seems exceptionally magnetic. | | | | | | | |
| | | 813.5-814.0 Vein(?) consisting largely of purple bladed/tabular crystals of axinite up to | 97625 | 813.5 818.0 | <0.01 | <0.01 | 0.10 | 0.08 | <0.003 |
| | | 1 cm; some large (3-7mm) light green grains of diopside(??); lesser calcite as wh. grains | 97626 | 818.0 823.0 | <0.01 | <0.01 | 0.13 | 0.01 | <0.003 |
| | | of several mm. | 97627 | 823.0 828.5 | <0.01 | <0.01 | 0.09 | 0.01 | <0.003 |
| | | 828.5-830.0 About 80% coarse gr. pink-red garnet; 'spots' of actinolite , sometimes w/ calcite; | 97628 | 828.5 830.0 | <0.01 | <0.01 | 0.09 | 0.03 | <0.003 |
| | | also larger patches containing actinolite,w/ lesser fluorite, diopside and minor calcite. | | | | | | | |
| 830.0 | 853.5 | QTZ. MONZONITE | | | | | | | |
| | | Generally cf. 741.5-747.5; seems to lack crosscutting veins and fractures; a few thin | | | | | | | |
| | | tourmalinised joints or fractures. | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 830.0-832.5 Section is pinkish red; could be pink feldspar or possibly garnets(??), sl. coarser | 97629 | 830.0 832.5 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | gr. than granite in general. | 97630 | 832.5 838.0 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | | 97631 | 838.0 843.0 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | | 97632 | 843.0 848.0 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | | 97633 | 848.0 853.5 | <0.01 | <0.01 | 0.03 | <0.01 | <0.003 |
| | | | | | | | | | |
| | | | | | | | | | |
| 853.5 | 861.0 | GNT.-DIOPS. SKARN | 97634 | 853.5 857.5 | <0.01 | <0.01 | 0.14 | 0.03 | <0.003 |
| | | Coarse gr. patchy garnet-diopside skarn; pink-red garnet grains up to 15mm (aug. 2-4mm); | 97635 | 857.5 861.0 | <0.01 | 0.01 | 0.08 | 0.05 | <0.003 |
| | | Light green diopside is much finer gr.; patches and spots from a few mm. to several cm. of dark | | | | | | | |
| | | green figr. actinolite; a few wh. grains of calcite w/ actinolite; minor py/arspy as 2-3mm | | | | | | | |
| | | grains at bottom contact. | | | | | | | |
| | | | | | | | | | |
| 861.0 | 878.0 | QTZ. MONZONITE | 97636 | 861.0 864.5 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 |
| | | 861.0-868.0 Slightly pinkish and slightly finer gr. than gray sections; may display large rec- | 97637 | 864.5 868.0 | <0.01 | <0.01 | 0.02 | <0.01 | <0.003 |
| | | tangular phenos of feldspar up to 15mm long; biotite grains up to 4mm; a few small veins or frac- | | | | | | | |
| | | ure fillings of purple fluorite; veins of qtz.-feldspar pegmatite (aug. grain size 4-5mm) about | | | | | | | |
| | | 1cm thick are occasionally visible; | | | | | | | |
| | | | | | | | | | |
| | | 868.0-878.0 cf. 830.0-853.5; some sections have yellowish stripes or fractures | 97638 | 868.0 873.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | | 97639 | 873.0 878.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | | | | | | | | |

Scale -

Colour Plot & Dips

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# Drill Hole Record

Cominco

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|---|---|---|---|
| Property | District | Hole No. JC 81-4 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. 360 | Collar Dip -70 | Elev. 5168.9' | Length 878'

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| | | E.D.H. 878' | | | |
| | | Dip tests @ 500' 70° | | | |
| | | @ 878' test ruined at drill | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | | | |
|---|---|---|---|---|---|
| Property | JC Property | District | Watson Lake M.D | Hole No. | JC 81-6 |
| Commenced | 22 July 1981 | Location | Yukon Territory | Tests at | Hor. Comp. |
| Completed | 24 July 1981 | Core Size | BQ | Corr. Dip 90° | Vert. Comp. |
| Co-ordinates | 84 + 00E 100 + 39N | | | True Brg. 360° | Logged by G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | Date 25 July 1981 |

Claim JC | T Brg. | Collar Dip VERT | Elev. 4725.4' | Length 185' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Pb | Ag |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 40.0 | CASING | | | | | | | |
| 40.0 | 52.5 | CALC SILICATE | 97696 | 40.0 46.5 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | White. fine grain w/ occasional pinkish or greenish bands of a few mm; most of unit is | 97697 | 46.5 52.5 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | effervescent in 10% HCl; a few darker green bands probably contain diopside/(actinolite); | | | | | | | |
| | | Core angle @ 44' 38° | | | | | | | |
| 52.5 | 55.5 | GARNETIFEROUS CALC SILICATE (SLG) | 97698 | 52.5 55.5 | <0.01 | <0.01 | <0.01 | 0.01 | <0.003 |
| | | White to light gray; banded to patchy or blotchy w/ large clusters (5-15mm) of rounded pale | | | | | | | |
| | | pink-red garnets comprising up to 25% some large patches and a few bands of qtz; overall this | | | | | | | |
| | | unit effervesces loss readily than 40.0-52.5 and appears more siliceous although large patches | | | | | | | |
| | | of white calcite (1cm) do appear throughout; toward bottom of section thin bands of coarse gr. | | | | | | | |
| | | garnet (2-4mm) appear to parallel original bedding; small 0.5' section at 54.5 (cf. 40.0-52.5). | | | | | | | |
| 55.5 | 63.0 | GARNET-DIOPSIDE SKARN | 97700 | 55.5 58.0 | 0.07 | <0.01 | 0.08 | 0.10 | <0.003 |
| | | Green f. gr. diopside w/ narrow irregular bands of pale pink-red garnet; in places this | 97901 | 58.0 60.5 | 0.05 | <0.01 | 0.10 | 0.09 | <0.003 |
| | | texture is reversed w/ irregular bands of diopside in a predominantly garnet - bearing rock; | 97902 | 60.5 63.0 | <0.01 | <0.01 | 0.06 | 0.08 | <0.003 |
| | | occasional narrow (2-3cm) calcite/ tourmaline/qtz. veins; these veins appear to be post-skarn | | | | | | | |
| | | and crosscut the skarn banding (two measured @ 63°); darker green and black sections contain | | | | | | | |
| | | magnetic (and possibly actinolite); general coarsening of garnet grain size in magnetite-bearing | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-6 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip -VERT | Elev. 4725.4' | Length 185' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | sections; 62.0-62.5 is predominantly magnetite w/ very coarse garnet; small tourm/calc stringer | | | | | | | |
| | | (similar to others) through this section has py selvage; | | | | | | | |
| | | | | | | | | | |
| | | 58.25-59.75 Magnetite-bearing | | | | | | | |
| | | 61.75-62.5 Massive magnetite w/ coarse garnet. | | | | | | | |
| | | | | | | | | | |
| 63.0 | 80.0 | CALC-SILICATE | 97903 | 63.0 68.0 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | White to very pale pinkish or greenish; very f. gr., often cherty-looking; a few small | 97904 | 68.0 72.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | mauve sections may be argillaceous QTZITE interbeds; a few small qtz/calcite veins and stringers. | 97905 | 72.0 76.0 | <0.01 | <0.01 | 0.03 | 0.01 | <0.003 |
| | | | 97906 | 76.0 80.0 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 |
| | | | | | | | | | |
| | | 75.0-80.0 Slightly darker green than most of section but still cherty, CALC-SILICATE rock. | | | | | | | |
| | | | | | | | | | |
| | | Core angle @ 75.5' 36° | | | | | | | |
| | | | | | | | | | |
| | | 75.0 Poor core recovery (10%?) but lots of small (5-10mm) magnetite crumbs. | | | | | | | |

211-9427

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

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|---|---|---|---|
| Property | District | Hole No. JC 81-6 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip VERT | Elev. 4785.4' | Length 185' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sb | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| 80.0 | 84.0 | GARNET-DIOPSIDE SKARN | | | | | | | |
| | | Largely f. gr. green diopside; more massive sections of garnet-diopside w/ coarse gr. pale | 97907 | 80.0 84.0 | 0.06 | <0.01 | 0.25 | 0.13 | <0.003 |
| | | pink-red garnet; numerous tourmalinated fractures and stringers at various angles; darker | | | | | | | |
| | | green sections may contain actinolite. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | 80.0-82.0 Largely massive magnetic w/ sections of coarse gr. garnet and some diopside; also | | | | | | | |
| | | contains small grains of arspy (1-2mm) and py (po?); still shows tourmalinated fractures. | | | | | | | |
| | | | | | | | | | |
| 84.0 | 104.0 | CALC-SILICATE | | | | | | | |
| | | Very badly broken core for the most part; largely pale pinkish, greenish CALC-SILICATE cf. | 97908 | 84.0 94.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | 63.0-80.0; small sections of mauve-coloured QTZITE | 97909 | 94.0 104.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | | | | | | | |
| | | 85.5-103.0 Very poor core recovery (less than 20%); possible FAULT ZONE; possibly related to | | | | | | | |
| | | transverse fault passing near 84E 100N and striking approx. 030° (dipping steeply eastward(?)) | | | | | | | |
| | | recovery improves over 103.0-104.0 but core still appears brecciated. | | | | | | | |

211-9437

Scale

Colour Plot & Dips

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-6 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip - VERT | Elev. 4725.4' | Length 185' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 104.0 | 185.0 | QTZ. MONZONITE | 97910 | 104.0–108.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97911 | 108.0–112.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | 104.0-122.0 Coarser gr. biotitic granite; aug grain size approx. 2mm but often greater; light | 97912 | 112.0–116.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | gray to white; biotite as black scattered flakes laths (aug. 2mm) often seems altered to chlo- | 97913 | 116.0–119.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | rite(??); quite fluoritic(?) w/ fluorite(?) up to 10% as 2mm white to purplish grains; pegmatitic | 97914 | 119.0–122.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | 'veins' w/ coarse gr. feld./qtz @ 107' (1cm) and grains of 115' (5cm , minor arspy/py); also | | | | | | | |
| | | occasional large (5-10cm) glassy purplish-gray qtz., tr. arspy as 1mm crystals, a few tourm. | | | | | | | |
| | | joints, sometimes w/ py (112'); also shows pale green talcose joint fillings in places, 119.5- | | | | | | | |
| | | 120.0 is a coarse fluoritic pegmatite w/ yellowish feld. phenos. up to 1cm. | | | | | | | |
| | | | | | | | | | |
| | | 122.0-185.0 Finer gr. (aug. 1mm) gray to bluish gray; sometines has pale greenish tinge; biotite | 97915 | 122.0–127.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | about 5% as 1mm flakes and laths; occasional glassy, gray rounded qtz. eyes up to 5mm; occasional | 97916 | 127.0–132.0 | <0.01 | 0.01 | <0.01 | 0.01 | <0.003 |
| | | yellowish feld. phenos of 4-6mm; still has some tourm, fractures and greenish talcose fracture | 97917 | 132.0–137.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | fillings some feld. phenos. are altered to greenish talcose (talc(?)) mineral. | 97918 | 137.0–142.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | 158.5 1 cm tourm./qtz. vein @85° (approx.) | 97919 | 142.0–147.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97920 | 147.0–152.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97921 | 152.0–157.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97922 | 157.0–162.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97923 | 162.0–167.0 | <0.01 | <0.01 | <0.01 | <0.01 | 0.003 |
| | | | 97924 | 167.0–172.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | 97925 | 172.0–177.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | E.O.H. 185' | 97926 | 177.0–185.0 | <0.01 | <0.01 | <0.01 | <0.01 | 0.003 |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | | | |
|---|---|---|---|---|---|
| Property | JC Property | District | Watson Lake M.D. | Hole No. | JC 81-7 |
| Commenced | 24 July 1981 | Location | Yukon Territory | Tests at | Hor. Comp. |
| Completed | 26 July 1981 | Core Size | BQ | Corr. Dip 90° | Vert. Comp. |
| Co-ordinates | 83 + 84E 97 + 12S | | | True Brg. | Logged by G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | Date 30 July 1981 |

Claim JC | T Brg. VERTICAL | Collar Dip · | Elev. 4738.1' | Length 375' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | W03 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 10.0 | CASING | | | | | | | |
| | | | | | | | | | |
| 10.0 | 187.0 | QUARTZITE | | | | | | | |
| | | Pale green-gray to mauve coloured; fine grained; mauve coloured sections may have small | | | | | | | |
| | | wh. 'phenocrysts' (1mm); small scale fine compositional banding is often apparent in mauve- | | | | | | | |
| | | coloured sections; py as blebs of a few mm and w/ chlorite in qtz. 'sweats'; some sections sl. | | | | | | | |
| | | magnetic, probably due to dissem po; occasional bands show chlorite- or biotite-rich banding; a | | | | | | | |
| | | few small (5cm) irregular inclusions of cherty pink/greenish calc-silicate at 15' and 22.5' | | | | | | | |
| | | occasional larger (3mm) blebs of magnetic po; ranges from massive to distinctly banded; | | | | | | | |
| | | | | | | | | | |
| | | Core angle @ 44' 28° | | | | | | | |
| | | | | | | | | | |
| | | 77.0-78.0 Small section of LAPILLI TUFF(?); dark gray green to mauve coloured QTZITIC rock; | | | | | | | |
| | | rounded frags of po/py/qtz. elongate parallel to vague banding; frags up to 3cm long and 5mm | | | | | | | |
| | | wide; also smaller, rounded but more equidiminsional frags of gray qtzitic material; | | | | | | | |
| | | | | | | | | | |
| | | Core angle @ 117' 33° | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-7 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. VERTICAL | Collar Dip | Elev. 4738.1' | Length 375' | Sheet No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | WO3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | ;gray-green QTZITE tends to be quite massive whereas mauve-coloured sections are usually well | 97931 | 162.0 172.0 | <0.01 | 0.01 | 0.02 | <0.01 | <0.003 |
| | | blended. | 97932 | 172.0 182.0 | <0.01 | 0.01 | 0.01 | 0.01 | <0.003 |
| | | | 97933 | 182.0 187.0 | <0.01 | 0.01 | 0.01 | <0.01 | <0.003 |
| | | 147'-187' Zone of low core recovery/broken core. | | | | | | | |
| 187.0 | 208.0 | DIOPSIDE SKARN | 97934 | 187.0 191.0 | 0.01 | 0.52 | 0.04 | 0.06 | <0.003 |
| | | Largely very fine-grained siliceous diopside skarn; ple green; often massive but usually | 97935 | 191.0 196.0 | 0.01 | 0.02 | 0.01 | 0.02 | <0.003 |
| | | shows parallel to subparallel bands of either pale pink-red garnet or dark green actinolite; | 97936 | 196.0 201.0 | <0.01 | 0.18 | 0.05 | 0.07 | <0.003 |
| | | these bands are usually a few mm wide and may be spotty or patchy; some garnet may be very pale, | 97937 | 201.0 206.0 | <0.01 | 0.06 | 0.04 | 0.04 | <0.003 |
| | | almost white; a few white calcite bands and small stringers; may contain small blebs of py or | 97938 | 206.0 208.0 | 0.04 | 0.01 | 0.02 | 0.09 | <0.003 |
| | | arspy. | | | | | | | |
| | | 187.5-191.0 Beryl/fluorite/tourmaline vein; eahedral pale green beryl (aug. 3mm length), black | | | | | | | |
| | | tourm. (aug. 3mm); purplish fluorite interstitial to beryl/tourm.; coarse (2-3mm) pale pink or | | | | | | | |
| | | flesh coulured garnet in close paragenesis w/ tourm.; upper 1' cuts massive DIOPSIDE SKARN | | | | | | | |
| | | (epidote may be present); tr. moly as 1-2mm flakes w/ beryl/fluorite; large milky wh. prismatic | | | | | | | |
| | | qtz. (or beryl) xls (3mm) are also present; thin (less than 1mm) rims of moly surround rounded | | | | | | | |
| | | 2-3mm grains of pale flesh-coloured garnet assoc. w/ tourm; last 1' has very coarse pink garnet | | | | | | | |
| | | w/ small (1-2mm) specks of black tourm. (?). | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-7 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. VERTICAL | Collar Dip - | Elev. 4738.1' | Length 375' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | Core angle @ 200' 35° | | | | | | | |
| | | 208.0' 3cm po vein w/ lesser py, cpy in fluoritic matrix. | | | | | | | |
| 208.0 | 324.5 | SPOTTED SKARN | | | | | | | |
| | | Pale yellowish-green garnet-diopside(?) skarn; main constituants difficult to identify but | 97939 | 208.0 213.0 | <0.01 | 0.01 | 0.19 | 0.07 | <0.003 |
| | | rock may contain epidote as well; aug. grain size seems to be about 3mm; 'spots' are irregular | 97940 | 213.0 218.0 | <0.01 | 0.01 | 0.15 | 0.07 | <0.003 |
| | | w/ numerous angular sides and range up to 1cm large; spots minerals include dark-green actinolite | | | | | | | |
| | | white sparry calcite; waxy green euhedral axinite(?) up to several mm; prismatic black tourmal- | | | | | | | |
| | | ine; po/arspy/cpy and minor py occur frequently as irregular but subparallel bands of small | | | | | | | |
| | | (1-3mm) grains and blebs, often associated w/ actinolite; sulphides also occur in typical black | | | | | | | |
| | | (tourm.(?)) sulphide bands w/ fluorite; occasional larger (few cm.) patches of act. | | | | | | | |
| | | 218.0-220.0 Numerous po/cpy/arspy bands w/ fluorite 'spots' | 97941 | 218.0 220.0 | 0.79 | 0.01 | 0.10 | 0.29 | <0.003 |
| | | 220.0-237.0 ALTERED BRECCIA | 97942 | 220.0 224.0 | 0.12 | 0.02 | 0.25 | 0.15 | <0.003 |
| | | Greenish-brown to yellowish green, very soft, crumbly 'rotted' looking breccia zone; con- | 97943 | 224.0 228.0 | 0.05 | 0.02 | 0.15 | 0.09 | <0.003 |
| | | tains angular frags of SPOTTED SKARN as well as frags. of white calcite and tourmaline; still | 97944 | 228.0 232.0 | 0.02 | 0.01 | 0.10 | 0.08 | <0.003 |
| | | contains characteristic sulphides; intact 'graphic' calcite vein (3cm) @ 222'; 10cm of brecciated | 97945 | 232.0 237.0 | 0.01 | 0.03 | 0.07 | 0.09 | <0.003 |
| | | 'graphic' calcite tourm. (remnant of vein(?)) at 232' ; frags are angular and aug. about 5mm; | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-7 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. VERTICAL | Collar Dip . | Elev. 4738.1' | Length 375' | Sheet | Hole No

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Mo3 | Zn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| | | below 234' rock is only slightly brecciated and has typical SPOTTED SKARN texture but retains a | | | | | | | |
| | | greenish-brown 'bleached and rotted' look; tourmaline (serpentine(??)) occurs as a shiny slick- | 97946 | 237.0 240.0 | 0.14 | 0.01 | 0.07 | 0.13 | <0.003 |
| | | enside-like coating on some joints. | | | | | | | |
| | | | | | | | | | |
| | | 240.0-246.0 Po/cpy/arspy in patches w/ actin throughout this section | 97947 | 240.0 243.0 | 0.26 | 0.01 | 0.27 | 0.23 | <0.003 |
| | | | 97948 | 243.0 246.0 | 0.26 | 0.01 | 0.24 | 0.25 | <0.003 |
| | | ;occasional qtz. bands @ approx. 0-10° w/ py and chlor(??) between 250.0-256.0; | 97949 | 246.0 251.0 | 0.09 | 0.01 | 0.17 | 0.15 | <0.003 |
| | | | 97950 | 251.0 256.0 | 0.04 | 0.03 | 0.23 | 0.11 | <0.003 |
| | | 256.5-257.5 Section which has same 'rotted' look as 220.0-237.0 with only slight brecciation; | 97951 | 256.0 262.0 | <0.01 | 0.11 | 0.12 | 0.10 | <0.003 |
| | | calcite stringers. | | | | | | | |
| | | | | | | | | | |
| | | 262.0-304.0 Section of altered SPOTTED SKARN; rock das similar colouration to 220.0-237.0 but | 97952 | 262.0 267.0 | <0.01 | 0.01 | 0.14 | 0.09 | <0.003 |
| | | is not crumbly or extensively brecciated; joint planes often show tourmaline (serpentine(??)) | 97953 | 267.0 272.0 | <0.01 | 0.01 | 0.15 | 0.08 | <0.003 |
| | | slickenside-like coating; thin wh. calcite stringers are quite common; small sections consist | 97954 | 272.0 277.0 | <0.01 | 0.03 | 0.11 | 0.07 | <0.003 |
| | | of relatively 'fresh' SPOTTED SKARN; most fracture surfaces are coated w/ black 'coaly' tourm(?) | 97955 | 277.0 282.0 | <0.01 | 0.03 | 0.07 | 0.07 | <0.003 |
| | | some sections are f. gr. DIOPSIDE SKARN more similar to 187.0-208.0. | 97956 | 282.0 287.0 | <0.01 | 0.03 | 0.05 | 0.05 | <0.003 |
| | | | 97957 | 292.0 292.0 | 0.03 | 0.01 | 0.07 | 0.07 | <0.003 |
| | | | 97958 | 296.0 296.0 | <0.01 | 0.02 | 0.03 | 0.02 | <0.003 |
| | | | 97959 | 300.0 300.0 | <0.01 | 0.01 | 0.07 | 0.03 | <0.003 |
| | | | 97960 | 304.0 | <0.01 | 0.04 | 0.04 | 0.05 | <0.003 |
| | | | 97961 | 304.0 308.0 | 0.01 | 0.13 | 0.07 | 0.07 | <0.003 |
| | | | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-7 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. VERTICAL | Collar Dip - | Elev. 4738.1' | Length 375' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Zn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 304.0-308.0 Fluorite-rich skarn; finer gr. diopside skarn 'floating' in 40-50% purplish to white fluorite. | | | | | | | |
| | | 308' 1cm tourm/actin vein @ 80°; contains coarse euhedral arspy (aug. 3mm) seemingly concentrated along selvage; minor calcite; surrounding skarn is still somewhat fluoritic. | 97962 | 308.0 313.0 | 0.03 | 0.04 | 0.13 | 0.04 | <0.003 |
| | | | 97963 | 313.0 318.0 | 0.01 | 0.07 | 0.15 | 0.04 | <0.003 |
| | | | 97964 | 318.0 324.5 | 0.02 | 0.06 | 0.14 | 0.17 | <0.003 |
| | | ;below 308.0' actin. becomes more common in large patches. | | | | | | | |
| | | 312.0' 4mm py/arspy/cpy/fluorite vein @ 80° | | | | | | | |
| | | 319.0-320.0 Fluoritic (25%) rock similar to 304.0-308.0 | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-7 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. VERTICAL | Collar Dip - | Elev. 4,738.1' | Length 375' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Zn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| 324.5 | 375.0 | QTZ. MONZONITE | 97565 | 324.5 330.0 | <0.01 | 0.03 | 0.02 | <0.01 | <0.003 |
| | | Very pale greenish to gray granite; aug. grain size 1mm; biotite less than 2% as very | 97566 | 330.0 335.0 | <0.01 | 0.02 | 0.01 | <0.01 | <0.003 |
| | | small black laths, often seems altered to chlorite; biotite more plentiful (5-10%) in some | 97567 | 335.0 340.0 | 0.01 | <0.01 | 0.03 | 0.02 | <0.003 |
| | | sections; yellowish discolouration (greisen?) about 1cm wide follows steep angle, often tourm- | 97568 | 340.0 345.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | alinated, fractures; occasional large squarish yellowish feld. phenos. up to 1cm; rounded grayish | 97569 | 345.0 350.0 | <0.01 | <0.01 | 0.01 | <0.01 | <0.003 |
| | | qtz. eyes quite sommon (aug. 3-4mm); feld phenos sometimes wholly or partially altered to green | 97570 | 350.0 355.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | talcose mineral; tracr f. gr. arspy; towards bottom of hole large sections may be yellowish in | 97571 | 355.0 360.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | colour, emphasizing the presence of feld. phenos and qtz. eyes; tourm. joints @ 75-80°; tourm. | 97572 | 360.0 365.0 | <0.01 | 0.01 | <0.01 | <0.01 | <0.003 |
| | | fractures often carry mnr. arspy. | 97573 | 365.0 370.0 | <0.01 | 0.02 | <0.01 | <0.01 | <0.003 |
| | | | 97574 | 370.0 375.0 | <0.01 | 0.08 | 0.03 | <0.01 | <0.003 |
| | | E.O.H. 375' | | | | | | | |
| | | Dip test @ 375' 90° | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | | | |
|---|---|---|---|---|---|
| Property | JC Property | District | Watson Lake M.D. | Hole No. | JC 81-8 |
| Commenced | 27 JULY 1981 | Location | Yukon Territory | Tests at | Hor. Comp. |
| Completed | 29 JULY 1981 | Core Size | BQ | Corr. Dip | 90° Vert. Comp. |
| Co-ordinates | 79 + 95E 97 + 10S | | | True Brg. | Logged by G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | Date 31 July 1981 |

Claim JC | T Brg. | Collar Dip 90° | Elev. 4781' | Length 342' | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 0.0 | 10.0 | CASING | | | |
| 10.0 | 93.0 | QUARTZITE | | | |
| | | Gray-green to mauve; f. gr. ; often has fine irregular but subparallel banding; py and magnetic po common as small blebs or, occasionally, as disseminations; occasional milky white qtz. 'sweats' of a few cm are ofgen chloritic; some zones of 'shattering' or very weak brecciation; grayish quartzite is more prone to be massive (no banding visible); more massive sections of mauve-coloured QTZITE may show 1-2mm brown biotite specks; greenish sections may show fine specks of sericite (?); rare 1-3mm grains of pale red garnet; qtz. 'sweats' often contain sulphides (po/py) | | | |
| | | Core angle @ 60' 25° | | | |
| | | Core angle @ 83' 23° | | | |
| 93.0 | 98.0 | BIOTITE Q.F.P. | | | |
| | | Bluish-gray; bluish wh. roundish qtz. eyes from 1-4mm; feldspar is whitish and finer grained speckled w/brownish fiotite as 1-2mm laths; has irreg. melted looking upper boundary w/quartzite; some question as to whether this is a true porphyry or merely a hornfelsed equivalent of the mauve-coloured (argillaceous) QUARTZITE. | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip -90° | Elev. 4781' | Length 342'

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 98.0 | 187.0 | QUARTZITE | | | | | | | |
| | | cf. 10.0-93.0; toward bottom of hole some sections may contain f. gr. black biotite; | 97975 | 177.0 182.0 | <0.01 | 0.02 | <0.01 | 0.01 | <0.003 |
| | | | 97976 | 182.0 187.0 | 0.01 | 0.02 | <0.01 | 0.01 | <0.003 |
| | | 140.5-143.5 Mauve-coloured QTZITE w/well developed 3-4mm long laths of brown biotite; another small section at 150.5-151.5. | | | | | | | |
| | | 182.5 4cm sill or dyke of pale greenish wh. GRANITE; aug. grain size 2mm; biotite about 5% as 2-4mm flakes; cf. 187.0-189.0. | | | | | | | |
| 187.0 | 189.0 | QTZ. MONZONITE(?) | 97977 | 187.0 189.0 | 0.01 | 0.02 | <0.01 | 0.02 | <0.003 |
| | | White w/ a pale greenish tinge; rounded grayish glassy qtz. grains aug. 2mm (about 30%); biotite as dark brownish black clusters of flakes of 4-5mm; greenish tinge may be chloritic alteration of biotite; soft, seems bleached or altered; fluoritic(?). | | | | | | | |
| 189.0 | 199.0 | QUARTZITE (CALC-SILICATE) | 97978 | 189.0 194.0 | <0.01 | 0.01 | <0.01 | 0.01 | 0.004 |
| | | Banded gray-green to mauve QTZITE; often biotitic, sometimes chloritic; increasing amount of calcareous material towards bottom resulting in cherty pinkish or greenish banded sections; | 97979 | 194.0 199.0 | <0.01 | 0.01 | 0.01 | 0.01 | <0.003 |

211-843

Scale

Colour Plot. & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip 90° | Elev. 4781' | Length 342' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 194.0' 20cm vein of coarse bladed violet axinite (1cm crystals); also contains minor fine grained epidute(?) and actinolite(??) as well as calcite. | | | | | | | |
| | | 198.0-199.0 Section of GRANITE similar to 187.0 - 189.0 but slightly coarser grained, contains a narrow vein of purplish axinite which seems to envelope remnant qtz. grains from the granite | | | | | | | |
| 199.0 | 211.0 | SPOTTED SKARN | 97980 | 199.0 202.0 | <0.01 | 0.02 | 0.20 | 0.09 | <0.003 |
| | | Patchy light green-pale pink/red garnet-diopside skarn; contains many sided angular spots | 97981 | 202.0 205.0 | 0.03 | 0.07 | 0.18 | 0.08 | <0.003 |
| | | of a few mm to several cm; spots may contain varying amounts of dark green actinolite, wh. sparry | 97982 | 205.0 209.0 | 0.13 | 0.01 | 0.09 | 0.19 | <0.003 |
| | | calcite and occasionally tourmaline; coarse gr. arspy may also occur in 'spots' with or without | 97983 | 209.0 211.0 | <0.01 | 0.03 | 0.20 | 0.05 | <0.003 |
| | | other minerals; minor amounts of cpy also occur in this manner; main body if this unit may also contain small amount of epidote(?); major constituents are varying amounts of pale pink-red garnet and finer grained diopside; larger spots also contain pale purple-gray fluorite; some spots or patches w/actin. also contain significant masses of f. gr. magn.; | | | | | | | |
| | | 205.0-205.75 Band of 85% coarse (approx. 2mm) granular magn; irreg. rounded pale pastel yellow garnets(?); very minor actin., fluorite(?) | | | | | | | |
| | | 280.0' 6cm band of granular magn. w/ calcite, cpy, actin, epidote(?) as minor constituents | | | | | | | |
| | | 208.5 10cm band w/ same mineralogy as above but only 65% granular (2-4mm) magn. | | | | | | | |

Scale -

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip 90° | Elev. 4781' | Length 342' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| 211.0 | 246.5 | DIOPSIDE SKARN | 97984 | 211.0 213.5 | <0.01 | 0.04 | 0.01 | 0.05 | <0.003 |
| | | Fine gr., light green diopside-bearing skarn; quite siliceous looking; very pale pink-red | 97985 | 213.5 215.5 | 0.03 | 0.13 | 0.02 | 0.15 | <0.003 |
| | | garnets in scattered rounded grains (1-4mm) comprise about 5%; small patches of darker green actinolite but lacks 'spot' texture; | | | | | | | |
| | | 211.0-215.5 Retains pinkish-greenish banding of CALC-SILICATE but is more deeply coloured; | 97986 | 215.5 218.5 | 0.02 | 0.01 | 0.02 | 0.06 | <0.003 |
| | | bottom 2' has rusty irregular calcitic banding | | | | | | | |
| | | ;below 218.5 rock contains varying proportions of po/cpy/arspy w/pale violet-gray fluorite; | 97987 | 218.5 223.0 | 0.26 | 0.02 | 0.04 | 0.19 | <0.003 |
| | | sulphides and silicate minerals often seem to 'float' in a matrix of up to 35% fluorite; po is | 97988 | 223.0 226.0 | 0.42 | 0.03 | 0.01 | 0.19 | <0.003 |
| | | the major sulphide w/long sections of up to 85-90% po; arspy up to 10% as often large euhedral | 97989 | 226.0 231.0 | 0.33 | 0.05 | <0.01 | 0.15 | <0.003 |
| | | grains; minor cpy and py; major gangue minerals are fluorite and diopside; py rarely forms wide | 97990 | 231.0 237.0 | .29 | 0.06 | <0.01 | 0.11 | <0.003 |
| | | bands (1-2cm); contains some vertical tourm coated fractures. | 97991 | 237.0 241.0 | 0.99 | 0.06 | 0.09 | 0.15 | <0.003 |
| | | | 97992 | 241.0 243.5 | 0.07 | 0.03 | 0.09 | 0.09 | <0.003 |
| | | 241.0-243.5 Actinolite-rich section w/ bands of f. gr. magn and arspy at centre; lighter | | | | | | | |
| | | coloured sections at top and bottom resemble pale SPOTTED SKARN. | | | | | | | |
| | | 245.0' Thin (1.5cm) band of f. gr. magn in po-bearing skarn. | 97993 | 243.5 246.5 | 0.13 | <0.01 | 0.07 | 0.15 | <0.003 |

211-8437

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip -90° | Elev. 4781' | Length 342'

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sr | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 246.5 | 269.0 | SPOTTED SKARN | | | | | | | |
| | | Similar mineralogy / textures to 199.0-211.0 but often very pale coloured; | | | | | | | |
| | | 246.5-249.0 Pale SPOTTED SKARN w/ thin (5-10mm) bands of f. gr. magnetite; dark green actinolite | 97994 | 246.5 249.5 | 0.13 | <0.01 | 0.21 | 0.48 | <0.003 |
| | | w/ magn; minor blebs of cyp; thin (2mm) vertical 'graphic' calcite vein; | 97995 | 249.5 254.0 | 0.15 | 0.02 | 0.07 | 0.10 | <0.003 |
| | | | 97996 | 254.0 259.0 | <0.01 | 0.01 | 0.11 | 0.08 | <0.003 |
| | | | 97997 | 259.0 264.0 | <0.01 | 0.03 | 0.19 | 0.06 | <0.003 |
| | | ;occasional thin bands of magn. and/or actinolite | 97998 | 264.0 269.0 | <0.01 | 0.02 | 0.19 | 0.07 | <0.003 |
| | | 255.0-255.5 Pale green, coarse grain (aug. 3mm) fluorite vein. | | | | | | | |
| 269.0 | 272.5 | AMYGDALOIDAL BASALT | | | | | | | |
| | | Black to dark brown; f. gr.; rounded calcite-filled amygdules up to 5mm; some amygdules | 97999 | 269.0 272.5 | <0.01 | 0.03 | <0.01 | 0.05 | <0.003 |
| | | filled w/ soft f. gr. black material; small 1mm play laths; tiny balck 'glassy' grains; whole | | | | | | | |
| | | unit is weakly magnetic; thin wh. calcite stringers. | | | | | | | |
| 272.5 | 273.5 | SPOTTED SKARN | | | | | | | |
| | | cf. 246.5-269.0 but seems altered by BASALT | 98000 | 272.5 273.5 | <0.01 | 0.02 | 0.12 | 0.06 | <0.003 |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip 90° | Elev. 4,781' | Length 342' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sr | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| 273.5 | 282.0 | AMYGDALOIDAL BASALT | SR0001 | 273.5 282.0 | <0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | cf. 269.0-272.5; contacts of both sections show thin bands of tectonic breccia; lowermost | | | | | | | |
| | | contact @ approx. 45° | | | | | | | |
| 282.0 | 289.5 | DIOPSIDE SKARN | | | | | | | |
| | | Green, f. gr. diopside-bearing skarn; siliceous; whole section is similar to 211.0-215.5 | SR0002 | 282.0 289.5 | <0.01 | 0.02 | 0.03 | 0.04 | <0.003 |
| | | retaining cherty pinkish and greenish bands which may be a relict CALC-SILICATE texture; no vis- | | | | | | | |
| | | ible sulphide or magnetite mineralization; | | | | | | | |
| 289.0 | 311.0 | SPOTTED SKARN | Sr0003 | 289.5 295.0 | <0.01 | <0.01 | 0.14 | 0.07 | <0.003 |
| | | Very pale SPOTTED garnet-diopside skarn; similar mineralogy / texture to 199.0-211.0 w/ | SR0004 | 295.0 300.0 | <0.01 | <0.01 | 0.19 | 0.07 | 0.006 |
| | | the exception that magnetite or sulphide mnlzation is not readily visible; most spots are actin- | SR0005 | 300.0 306.5 | <0.01 | <0.01 | 0.08 | 0.03 | <0.003 |
| | | olite; | SR0006 | 306.5 311.0 | <0.01 | <0.01 | 0.12 | 0.07 | <0.003 |
| | | 306.5-307.5 Small section of AMYGDALOIDAL BASALT cf. 273.5-283.0; blocky angular contacts; | | | | | | | |
| | | small section again at 308.0 | | | | | | | |

211-9437

Scale

Colour Plot & Dips

0

# Drill Hole Rec d

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-8 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim JC | T Brg. | Collar Dip -90° | Elev. 4781' | Length 342' | Sheet | Hole No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Au | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| | | ;skarn below 308.0 seems rusty and altered; last 0.5' is fragment supported tectonic breccia | | | | | | | |
| | | containing large angular frags of skarn and QTZITE(?) | | | | | | | |
| 311.0 | 342.0 | QTZ. MONZONITE | SR0007 | 311.0 316.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | Brownish to grayish; f. gr. (aug. grain size 1mm); biotite as small (1mm) black laths (less | SR0008 | 316.0 321.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | than 5%); occasional rounded gray qtz. eyes up to 5mm; very qtz. rich (70%(??)); top 15' of | SR0009 | 321.0 326.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | hole is extremely crumbly; a few thin, near vertical tourmalinated fractures; talcose coatings | SR0010 | 326.0 331.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | on some joint planes; a few small pegmatitic qtz./tourm. veins at high angle to core. | SR0011 | 331.0 336.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | SR0012 | 336.0 342.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |

211-8437

Scale

Colour Plot & Dips

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# Drill Hole Rec ·d

Cominco

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | JC Property | District | Watson Lake M.D. | Hole No. | JC 81-9 | | |
| Commenced | 30 July 1981 | Location | Yukon Territory | Tests at | p.7 | Hor. Comp. | |
| Completed | 4 August 1981 | Core Size | BQ | Corr. Dip | -80° | Vert. Comp. | |
| Co-ordinates | L76E 95N (approx.) | | | True Brg. | 360° | Logged by | G.D.L. |
| Objective | Test skarn horizon for Sn mineralization. | | | % Recov. | | Date | 4 August 1981 |

Claim | T Brg. 360° | Collar Dip -80° | Elev. | Length 762' | Sheet No.

| Footage From | Footage To | Description | Sample No. | Length | Analysis |
|---|---|---|---|---|---|
| 0.0 | 10.0 | CASING | | | |
| | | | | | |
| 10.0 | 630.0 | QUARTZITE | | | |
| | | Gray-green to mauve-coloured (argillaceous); v.f.gr.; may be finely banded; occasional small | | | |
| | | wh. qtz. stringers; more massive mauve-coloured sections may have hornfelsic texture w/ wh. spots | | | |
| | | resembling phenocrysts(?); small sections may be sl. brecciated; occasional chloritic qtz. | | | |
| | | 'sweats' w/ py; | | | |
| | | | | | |
| | | Core angle @ 55' approx. 19° | | | |
| | | | | | |
| | | ;some sections are light gray and massive w/ irreg dark grayer bands and stringers; occasional | | | |
| | | minor po as blebs or sometimes as stringers; | | | |
| | | | | | |
| | | 122.0-160.5 'Marble-cake' textured hornfels; patchy, irregular hybrid of light gray f. gr. | | | |
| | | QTZITE w/ mauve coloured QTZITE; sometimes shows small chloritic patches. | | | |
| | | | | | |
| | | Core angle @ 208' 22° | | | |
| | | | | | |
| | | 256.5-261.0 Large qtz. vein or sweat in f. gr. gray QTZITE; chloritic w/ brownish stringers; | | | |
| | | sl. shattered or brecciated | | | |
| | | | | | |
| | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-9 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -80° | Elev. | Length 762' | Hole No. | Sheet

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Mo3 | Bi | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| | | Core angle @ 275' 21° | | | | | | | |
| | | 288.5-316.5 Section of 'marble-cake' hornfels cf. 122.0-160.5. | | | | | | | |
| | | 342.0-377.0 Qtz. breccia zone; section of massive, glassy light rusty brown qtz; shattered or brecciated for the most part; very small sections of gray f. gr. QTZITE. | SR0013 | 342.0 352.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | SR0014 | 352.0 362.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | SR0015 | 362.0 372.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | | SR0016 | 372.0 377.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | 391.5-394.0 Several 1cm bands or frags.(?) of py/qtz.; seem to consist of angular brecciated py frags. in qtz. matrix. | | | | | | | |
| | | 417' 1cm vein of qtz./chlorite w/ coarse flakes of muscovite(?); smaller veins or 'sweats' of this material occur infrequently toward bottom of hole. | | | | | | | |
| | | ;towards bottom of section QTZITE becomes more chloritic and may be slightly biotitic in sections | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-9 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

| Claim | T Brg. | Collar Dip | Elev. | Length | Sheet No. |
|---|---|---|---|---|---|
| | 360° | -80° | | 762' | |

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sr | As | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 603.5-606.0 Small section of LAPILLI TUFF(?); contains flattened elongate frags(?) of gray | | | | | | | |
| | | quartzitic material (up to 3cm length) in a matrix of weakly banded mauve-coloured QTZITE. | SR0017 | 610.0 615.0 | 0.01 | <0.01 | <0.01 | 0.03 | <0.003 |
| | | | SR0018 | 615.0 620.0 | 0.02 | 0.02 | <0.01 | 0.03 | <0.003 |
| | | ; last 20' of section contain included sections of CALC-SILICATE rock w/ cherty pinkish and | SR0019 | 620.0 626.0 | <0.01 | 0.03 | <0.01 | 0.03 | <0.003 |
| | | greenish bands; | | | | | | | |
| | | | | | | | | | |
| | | 626.0-630.0 Zone of qtz. veins/sweats and brecciation; most of section is grayish QTZITIC rock | SR0020 | 626.0 630.0 | 0.02 | <0.01 | 0.03 | 0.05 | <0.003 |
| | | heavily mottled w/brownish-yellowish qtz.-carbonate material; brecciated sections consist of | SR0021 | 630.0 635.0 | <0.01 | <0.01 | 0.06 | 0.02 | <0.003 |
| | | small (less than 1cm) qtzitic frags in a soft greenish matrix; thin vert. qtz./carb. stringers | SR0022 | 635.0 640.0 | <0.01 | 0.02 | 0.07 | 0.04 | <0.003 |
| | | through much of section. | | | | | | | |
| | | | | | | | | | |
| 630.0 | 729.0 | GARNET-DIOPSIDE SKARN | SR0023 | 640.0 645.0 | <0.01 | 0.01 | 0.11 | 0.03 | <0.003 |
| | | Green, f. gr. siliceous diopside-bearing skarn; pale pink-red garnets as coarse rounded | SR0024 | 645.0 650.0 | <0.01 | 0.35 | 0.03 | 0.03 | <0.003 |
| | | grains and in patches; actinolite(?) occurs occasionally in narrow bands or irregular strips; | SR0025 | 650.0 655.0 | <0.01 | 0.01 | 0.05 | 0.05 | <0.003 |
| | | small sections develop texture similar to SPOTTED SKARN; small sections contain dark-coloured | SR0026 | 655.0 660.0 | <0.01 | 0.03 | 0.09 | 0.03 | <0.003 |
| | | fluorite(?) and qtz. as patches surrounding coarse-gr. garnet; occasional qtz./carb. bands and | SR0027 | 660.0 665.0 | <0.01 | 0.49 | 0.18 | 0.03 | <0.003 |
| | | 'graphic' calcite stringers; | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | 641.5' 1cm 'graphic' calcite vein @ 81°; adjacent rock has fluorite 'spots' up to 8mm. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-9 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -80° | Elev. | Length 762' | Hole No. | Sheet

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo | Sr | Ag | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | ;sections of f. gr. massive DIOPSIDE SKARN; these sections often have interstial fluorite producing a 'float' texture w/ diopside in a matrix of fluorite | | | | | | | |
| | | 658' 4mm 'graphic' calcite vein @ 84° | | | | | | | |
| | | 659.5-660.0 Rusty qtz./carb vein-breccia zone; largely qtz/carb. w/ frags of SKARN; 2cm. angular vug filled w/ small sparry qtz. xls. | | | | | | | |
| | | 655.0-689.0 Is largely f. gr. siliceous (often fluoritic) SIOPSIDE SKARN w/ very little garnet; | SR0028 | 665.0 670.0 | <0.01 | 0.03 | 0.11 | 0.01 | <0.003 |
| | | 665.0-669.0 Small sections showing cherty pinkish and greenish banding; possible remnants of banded CALC-SILICATE texture. | SR0029 | 670.0 675.0 | 0.06 | <0.01 | 0.12 | 0.08 | <0.003 |
| | | | SR0030 | 675.0 679.5 | 0.01 | <0.01 | 0.05 | 0.07 | <0.003 |
| | | | SR0031 | 679.5 685.0 | 0.01 | 0.01 | 0.07 | 0.07 | <0.003 |
| | | 672.0-675.0 Coarse gr. qtz./beryl/fluorite vein; almost parallel to length of core; mnr. arspy and axinite and some epidote; narrow brecciated selvedge w/ frags of host SKARN; | | | | | | | |
| | | 675.5-676.5 Brecciated qtz./'graphic' carbonate vein cf. 670.0-672.0; graphic calite appears in a thin vein apparently postdating brecciation. | | | | | | | |

Scale

Colour Plot & Dips

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# Drill Hole Record

Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-9 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

Claim | T Brg. 360° | Collar Dip -80° | Elev. | Length 762' | Sheet | Hole No.

| Footage From | To | Description | Sample No. | Length | Analysis Cu | Mo | Sn | As | Au |
|---|---|---|---|---|---|---|---|---|---|
| | | 679.5-680.5 1cm qtz./'graphic' calcite/arspy/py vein @ approx. 80°; arspy as coarse euhedral | | | | | | | |
| | | xls up to 5mm; py mnr as smaller cubes. | | | | | | | |
| | | | | | | | | | |
| | | 680.0-681.0 Section w/ cherty pinkish and greenish bands; cf. 665.0-669.0 | | | | | | | |
| | | | SR0032 | 685.0 690.0 | <0.01 | <0.01 | 0.04 | 0.03 | <0.003 |
| | | | SR0033 | 690.0 695.0 | 0.09 | <0.01 | 0.09 | 0.07 | <0.003 |
| | | | SR0034 | 695.0 700.0 | 0.01 | <0.01 | 0.05 | 0.05 | <0.003 |
| | | | SR0035 | 700.0 705.0 | <0.01 | <0.01 | 0.09 | 0.09 | <0.003 |
| | | 686.0 4mm 'graphic' calcite vein @ 70° | SR0036 | 705.0 709.0 | <0.01 | <0.01 | 0.05 | 0.03 | <0.003 |
| | | | SR0037 | 709.0 715.0 | 0.01 | <0.01 | 0.05 | 0.03 | <0.003 |
| | | ;from 689.0-709.0' skarn is very garnetiferous (up to 75% in some sections); rock is permeated | SR0038 | 715.0 720.0 | <0.01 | <0.01 | 0.06 | 0.03 | <0.003 |
| | | by numerous parallel narrow ('sheeted') veinlets of act. or tourm(?) at about 80°; these vein- | SR0039 | 720.0 725.0 | 0.06 | 0.02 | 0.07 | 0.11 | <0.003 |
| | | lets may contain py or arspy in minor ammounts; cpy/py/arspy and minor po also occur in small | SR0040 | 725.0 729.0 | 0.03 | <001 | 0.03 | 0.07 | <0.003 |
| | | actinolite patches (1-3cm) or rare 'spots' of actin,; occasional narrow 'graphic' calcite vein- | | | | | | | |
| | | lets also at approx. 80°; actin. also occurs in sections as thin irregular bands or stripes of | | | | | | | |
| | | a few mm,. usually in diopside-rich sections; | | | | | | | |
| | | | | | | | | | |
| | | ;from 709.0-729.0' skarn is largely diopside w/ approx. 20% actin. as thin irreg. subparallel | | | | | | | |
| | | bands or stripes; small sections have a definite 'tiger-stripe' texture w/ actin as stripes in | | | | | | | |
| | | diopside; towards bottom arspy/cpy occur as scattered blebs and cubes as well as in veinlets | | | | | | | |
| | | and actin. patches described for 689.0-709.0'; minor po is present as well; scattered sulphides | | | | | | | |
| | | may be assoc. w/ sheeted veinlets. | | | | | | | |

Scale

Colour Plot & Dips

0

# Drill Hole Record

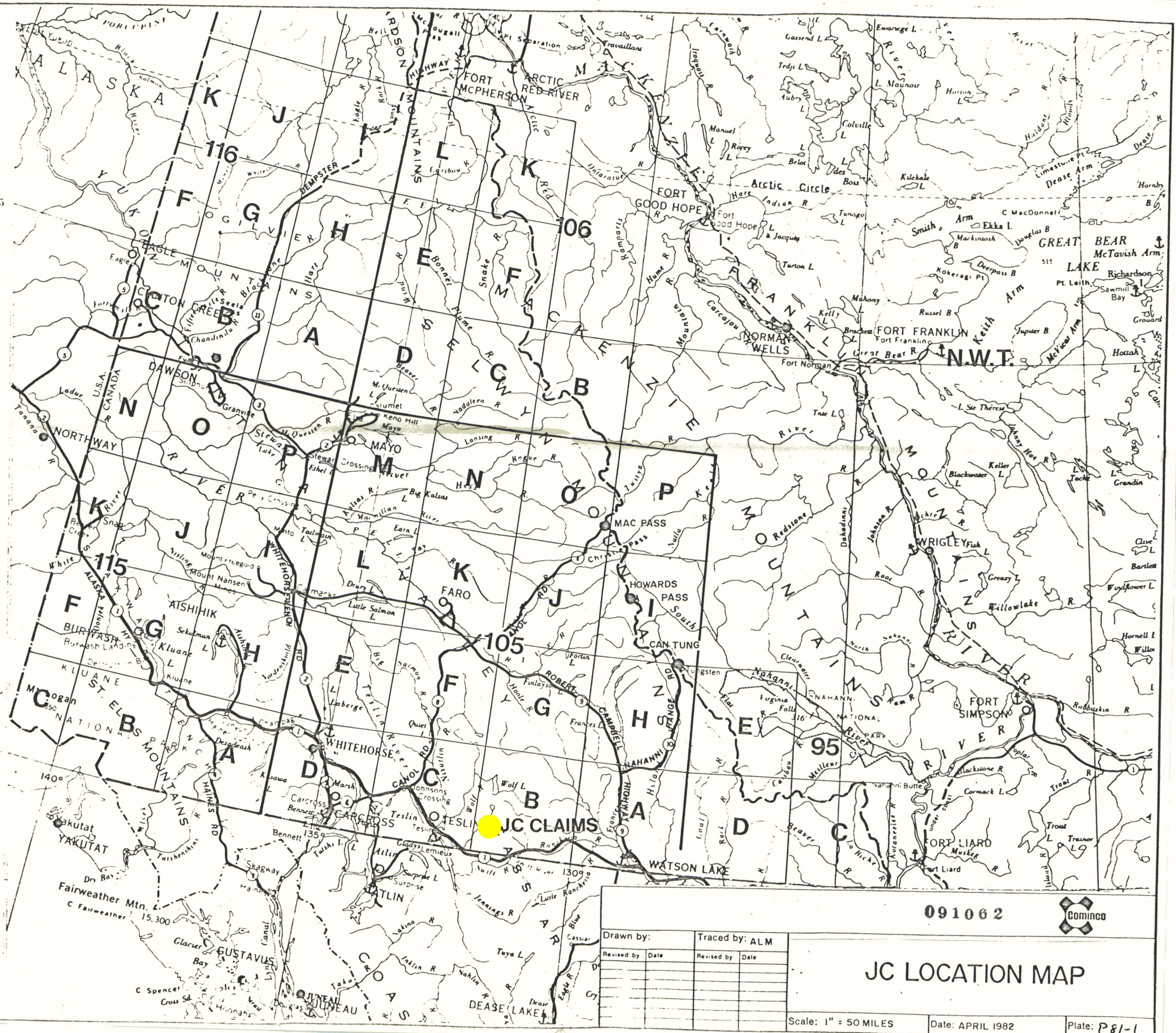
Cominco

| | | | |
|---|---|---|---|
| Property | District | Hole No. JC 81-9 | |
| Commenced | Location | Tests at | Hor. Comp. |
| Completed | Core Size | Corr. Dip | Vert. Comp. |
| Co-ordinates | | True Brg. | Logged by |
| Objective | | % Recov. | Date |

| Claim | T Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet |
|---|---|---|---|---|---|---|
| | 360° | -80° | | 762' | | |

| Footage From | Footage To | Description | Sample No. | Length | Analysis Cu | Mo3 | Sn | Ag | As |
|---|---|---|---|---|---|---|---|---|---|
| 729.0 | 745.0 | QUARTZITE | | | | | | | |
| | | Small section of f. gr. mauve-coloured and grayish-green QTZITE; small included sections of | SR0041 | 729.0 736.0 | <0.01 | <0.01 | 0.01 | 0.01 | <0.003 |
| | | pinkish/greenish banded cherty CALC-SILICATE interbanded w/ mauve-coloured QTZITE; somewhat | SR0042 | 736.0 745.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | shattered or brecciated in parts; some dissem. py/arspy as fine xls on joints and fractures; | | | | | | | |
| 745.0 | 762.0 | QTZ. MONZONITE | SR0043 | 745.0 752.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | Pale brown-buff to pale greenish; f. gr. (aug. less than 1mm); in greenish sections biotite | SR0044 | 752.0 757.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | as small flakes less than 1mm seems largely sltered to chlorite; bio is not readily visible in | SR0045 | 757.0 762.0 | <0.01 | <0.01 | <0.01 | <0.01 | <0.003 |
| | | brownish sections except as occasional larger (2-3mm) flakes; occasional steep angled tourm. | | | | | | | |
| | | coated fractures; some joints w/ talcose coatings; frquent glassy gray qtz. eyes up to 4-5mm; | | | | | | | |
| | | top of section may be fluoritic(?); small sections resemble relatively unaltered grayish granite. | | | | | | | |
| | | E.O.H. 762' | | | | | | | |
| | | Dip tests @412' 80° | | | | | | | |
| | | @754' 77.5° | | | | | | | |

211-043




091062

Cominco

| Drawn by: | | Traced by: ALM | |
|---|---|---|---|
| Revised by | Date | Revised by | Date |
| | | | |

# JC LOCATION MAP

Scale: 1" = 50 MILES | Date: APRIL 1982 | Plate: P81-1

## LEGEND

TERTIARY

7 CONGLOMERATE -

6 BASALT - Dykes and minor flows, often amygdaloidal

UPPER CRETACEOUS OR LOWER TERTIARY

5 CALC-SILICATE SKARN - Usually buff tan coloured, often contains red-brown garnets, seems to generally occur in lenses

5a HEDENBERGITE - DIOPSIDE SKARN - Dark green, skarn with varying proportions of epidote, actinolite, garnet and calcite often mineralized with sphalerite, chalcopyrite, arsenopyrite, magnetite and scheelite sometimes contains axinite, beryl, fluorite and apatite

5b MALAYITE BEARING CALC-SILICATE SKARN - Has a marble like appearance, with a greenish, or less commonly brownish cast malayite generally occurs in linear bands of minute crystals

SEAGULL BATHOLITH

4 QUARTZ MONZONITE

UPPER DEVONIAN - LOWER MISSISSIPPIAN

3 SILICIFIED LIMESTONE - White to grey, often cherty, some limestone lenses

2 LIMESTONE - Sparry, white to dark grey

1 METASEDIMENTS - Quartzite, tuffaceous ?quartzite greywacke, argillite, minor chert, minor carbonates

1a LAPILLI TUFF, MINOR VOLCANIC FLOWS

1b ARGILLITE

Camp + Drill Core Storage Location

LAKE

LAKE (W.L. 4351)

LAKE (W.L. 3855)

TRACTOR TRAIL

LEGEND

FAULT

AIR PHOTO LINEAR

OUTLINES OUTCROP AREA

CONTACT

TRACTOR TRENCH

D.D.H. LOCATION

Mapped by J.C. Stephen 1978

DC SYNDICATE - JC CLAIM GROUP 091062 NTS 105 B/4

Drawn by: | Traced by:

| Revised by | Date | Revised by | Date |
|---|---|---|---|
| | | A.C.M. | 1980 4/12/82 |

# GEOLOGY AND 1981 DRILL HOLE LOCATIONS

Scale: 1" = 500 FEET Date: NOVEMBER 1978 Plate: 81-2