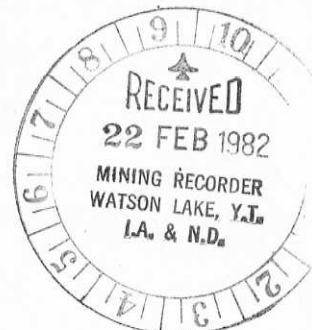
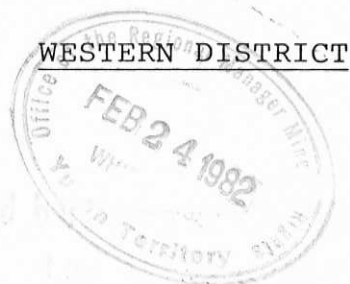


COMINCO LTD.

EXPLORATION



DIAMOND DRILLING REPORT ON

JC CLAIM 80

Situated at 60° 12' N Latitude, 130¹° 44' W Longitude

Watson Lake Mining Division

NTS 105 B-4



3 FEBRUARY 1982

L.J. NAGY

This report has been examined by
the Geological Evaluation Unit
under Section 55 (4) Yukon Quartz
Mineral Act and is offered as
report for the work done in the amount
of \$ 6,800

Relaxson

for Director of Geological Services
Geological Service for Commissioner
of Yukon Territory.

TABLE OF CONTENTS

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List of Attachments

- 1) P-81-1 Location Map - 2" to 1 mile
- 2) P-81-2 Geology Map - 1" to 500'
- 3) Diamond Drill Logs - JC-81-5
- 4) Assay Sheets

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS - 105 B-4

3 FEBRUARY 1982

DIAMOND DRILLING REPORT ON

JC CLAIM 80

Situated at 60° 12' N, 130° 44' W

SUMMARY AND CONCLUSIONS

Previous soil sampling and magnetometer surveys over the northwest portion of the JC group of claims indicated anomalous tin values in soil samples from a small area on JC-80 which coincided with a weak magnetic anomaly.

A single, vertical diamond drill hole was commenced on JC-80 on July 19, 1981 and was completed to a depth of 477' on July 22, 1981.

This drill hole intersected 276 ft. of quartzite which contained sections with up to 25% magnetic pyrrhotite.

Diopside skarn and calc-silicate rocks were encountered at 294' and continued to the end of the drill hole.

The skarn units are geochemically anomalous in tin (values 0.01 to 0.03% Sn) but nothing of economic significance appears to be present.

It is concluded that the unusually high magnetic pyrrhotite content of the quartzite is the cause of the magnetic anomaly but the cause of the anomalous tin values in soil samples remains unexplained.

No further drilling is recommended at this time.

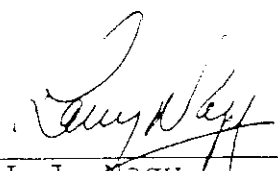
LOCATION AND ACCESS

JC-80 is situated at 60° 12' N, 130° 44' W within NTS map 105 B-4 in The Watson Lake Mining Division. Access is by helicopter from Swift River approximately 35 miles due south.

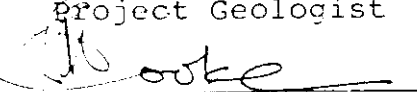
CONTRACTOR

The drilling was performed by Caron Diamond Drilling Co., Whitehorse, Y.T., with a Longyear 38 drilling rig. The rig was moved from site to site by helicopters supplied by both Viking Helicopters of Ottawa and Century Helicopters of Delta, B.C.


Submitted by


E.J. Nagy
Project Geologist

Endorsed by


Dr. D.L. Cooke
P. Eng.

Approved for
Release by:


G. Harben
Manager, Exploration
Western District



Drill Hole Record

Property J.C. Property District Watson Lake M.D. Hole No. JC 81-5
 Commenced 19 July 1981 Location Yukon Territory Tests at Hor. Comp.
 Completed 22 July 1981 Core Size BQ Corr. Dip Vertical Vert. Comp.
 Co-ordinates (approx.) 19+50E 109+50N True Brg. Logged by G.D.L.
 Objective Test 2 magnetomitic anomabis near west boundry of JC group% Recov. Date 22 July 1981

Claim JC 80
 T Brg.
 Collar Dip VERT.
 Elev. 4606'
 Length 477'
 Hole No. Sheet

Footage		Description	Sample No.	Length	Analysis									
From	To													
0.0	20.0	CASING												
20.0	216.0	QUARTZITE												
		Greenish-gray f. gr. quartzite; dissem. py throughout, generally as cubes less than 1mm; large irregular spots (avg 2-5mm) of chlorite/po; po is quite magnetic; some chlorite spots and small veinlets also contain py; also numerous subangular grains of white feldspar(?) resembling phenocrysts are usually discernible; chlorite also occurs as fine veinlets and stringers with or without po/py; unit as a whole is weakly to moderately magnetic; quite massive-bedding is not discernible; occasional mauve-coloured (argillaceous) patches;												
		89-91' Broken core												
		94-96' Broken core												
		115.5-116.0 25% po w/ lesser py; as small blebs and cubes (py) avg. 2mm; very magnetic.												
		134.5-152.5' Largely dark mauve coloured QTZITE w/ spots, patches and irregular stringers of greenish-gray QTZITE; still shows cloudy white, subangular phenocryst-like feldspar(?); still has po/py but in lesser amounts; far fewer spots and veinlets of chlorite; somewhat less magnetic on the whole than gray-green QTZITE.												

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No.	JC 81-5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim JC 80
T Brg.
Collar Dip VERT.
Elev. 4606'
Length 477'
Sheet No.

Footage		Description	Sample No.	Length	Analysis				
From	To				Cu	W03	Sn	Ag	Au
		170.0-200.0' Black tourmaline/qtz. veins or joint filling veins at high angle to core (approx. 70°-90° variable); aug. width 2-4 mm; either tourmaline or tourmaline w/ tourmaline/qtz. towards contact of vein w/ QTZITE; about 10 major veins over this interval.	97640	170.0 175.0	40.01	40.01	40.01	0.01	40.003
			97641	175.0 180.0	40.01	40.01	40.01	40.01	40.003
			97642	180.0 185.0	40.01	40.01	40.01	40.01	40.003
			97643	185.0 190.0	40.01	40.01	40.01	40.01	40.003
			97644	190.0 195.0	40.01	40.01	0.03	40.01	40.003
			97645	195.0 200.0	40.01	40.01	0.01	40.01	40.003
		192.0-201' Broken core.	97646	200.0 205.0	40.01	40.01	0.02	40.01	40.003
			97647	205.0 210.0	40.01	40.01	0.02	40.01	40.003
		; below 200' tourmaline veins are uncommon but there is a good deal of rusting jointing and shattering at various angles; jointing averages about 75°	97648	210.0 216.0	40.01	40.01	0.01	40.01	40.003
216.0	234.0	QTZ MONZONITE(?) Bluish gray, f. gr. biotitic granite; aug. grain size 1mm; biotite as black specks and laths of 1-2mm; upper section has small pegmatitic veins of qtz./ feld up to 1cm thick (aug grain size 3-4mm); upper contact is very sharp @34°; occasional rounded qtz. eyes of 3-4mm.	97649	216.0 222.0	40.01	40.01	0.02	40.01	40.003
			97650	222.0 228.0	40.01	40.01	0.01	40.01	40.003
			97651	228.0 234.0	40.01	40.01	0.01	40.01	40.003

Drill Hole Record



Property	District	Hole No.	JC 81-5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim
JC 80

T Brg.

Collar Dip
VERT.

Elev. 4606'

Length 477'

Hole No. Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To				Cu	W03	Sn	Ag	As	
234.0	294.0	QUARTZITE								
		cf. 20.0-216.0								
		267.0-285.0 Mauve-coloured QTZITE; cf. 134.5-152.5	97689	274.0 279.0	0.01	40.01	0.02	0.01	40.03	
		274.0-275.5 Thin black, sl. magnetic po-bearing stringers.	97690	279.0 284.0	40.01	40.01	0.02	40.01	40.03	
		280.5 5mm calcite, po, cpy, vein @ -70°	97691	284.0 289.0	40.01	40.01	0.02	0.01	40.03	
			97692	289.0 294.0	0.01	40.01	0.02	0.01	40.03	
		285.0-286.0 Intrusive (?); small sill of coarse gr. greenish-yellow porphyritic looking rock; yellowish feldspar in phenocrysts of 3-4mm; groundmass is greenish; specks of brown-black biotite (1-2mm); has irregular, apparently intrusive contacts w/QTZITE								
		286.0-294.0 cf. 276.0-285.0								
294.0	299.5	DIOPSIDE SKARN	97652	294.0 299.5	0.05	40.01	0.04	0.07	40.03	
		Green, fine grain; largely light green diopside; very minor pale flesh-pink garnets as grains of a few mm; minor calcite throughout as thin stringers and small spots; last 1' of section is interbedded w/ white calc-silicate.								



Drill Hole Record

Property	District	Hole No.	JC 81-5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim JC 80

T Brg.

Collar Dip.

VERT

Elev. 4606'

Length 477'

Hole No. Sheet

Footage		Description	Sample No.	Length	Analysis				
From	To				CU	WO3	Si	Ag	AN
		296.0-298.0 Pyrrhotite-rich; up to 25% po as bands and separate blebs; bands seem to parallel original bedding; near top of section massive po is intergrown w/ small, black prismatic bundles of tourmaline (crystals 1-2 cm long).							
299.5	336.5	CALC-SILICATE	97653	299.5 305.0	40.01	40.01	0.01	0.02	40.003
		White to pale pink or green banded calc-silicate; bands generally parallel but fairly irregular, aug. width about 1cm; whole unit is effervescent in 10% HCl; thin (2-5cm) bands of sparry calcite; occasional po as small veinlets or spots; a few small sections have coarse (5mm) pale red garnet grains; occasional very minor chlorite.	97654	305.0 310.0	40.01	40.01	0.01	0.01	40.003
			97655	310.0 315.0	40.01	40.01	0.01	0.02	40.003
			97656	315.0 320.0	40.01	40.01	0.01	0.02	40.003
			97657	320.0 325.0	40.01	40.01	0.03	0.01	40.003
			97658	325.0 330.0	40.01	40.01	0.03	0.03	40.003
			97659	330.0 336.5	40.01	40.01	0.03	0.03	40.003
336.5	377.0	DIOPSIDE SKARN	97660	336.5 342.0	40.01	40.01	0.04	0.02	40.003
		Very similar to 294.0-299.5 but paler green (more siliceous (?)) parts of section have interbeds of garnet; ferrous CALC-SILICATE; rounded garnets (aug. 4-5mm) become darker coloured and more plentiful toward bottom of section garnets occur as large separate grains or clusters of grains; most of unit effervesces in 10% HCl;	97661	342.0 347.0	40.01	40.01	0.05	0.01	40.003
		Core angle @ 365' approx. 24°	97662	347.0 352.0	40.01	40.01	0.03	0.01	40.003
			97663	352.0 357.0	40.01	40.01	0.02	0.01	40.003
			97664	357.0 362.0	40.01	40.01	0.03	0.02	40.003
			97665	362.0 367.0	40.01	40.01	0.02	0.02	40.003
			97666	367.0 372.0	40.01	40.01	0.02	0.02	40.003
			97667	372.0 377.0	40.01	40.01	0.03	0.02	40.003

Drill Hole Record

Colour Plot
& Dip

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Drill Hole Record



Property	District	Hole No.	JC 81-5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim JC 80
T Brg.
Collar Dip VERT.
Elev. 4606'
Length 477'

Footage From To	Description	Sample No.	Length	Analysis				
				Cu	W ₂ O ₃	Sn	Ag	Au
441.5 459.0	GARNET - DIOPSIDE SKARN	97682	441.5 447.0	<0.01	<0.01	0.01	<0.01	<0.002
	Pale green; f. gr. diopside w/ coarser gr. (1-2cm) pale pink garnets; spots of wh. calcite	97683	447.0 453.0	<0.01	<0.01	0.01	<0.01	<0.002
	throughout; fairly massive; some sections show very vague compositional banding; most of unit	97684	453.0 459.0	<0.01	<0.01	0.01	<0.01	<0.002
	is effervescent in 10% HCl; lower 2' of section is interbedded w/ irreg. beds of mauve-coloured							
	QTZITE.							
459.0 466.5	QUARTZITE	97685	459.0 466.5	<0.01	<0.01	0.02	0.01	<0.002
	Irregular intervands of mauve QTZITE w/ greenish CALC-SILICATE and a few bands of sparry							
	white calcite; bands are avg. 1-2cm; a few small bands of garnet ferrous marble.							
466.5 472.0	CALC-SILICATE	97686	466.5 472.0	<0.01	<0.01	0.03	0.01	<0.002
	White to pale green or pink; f. gr. ; similar to 299.5-336.5; no discernible sulphides.							
472.0 477.0	QUARTZITE	97688	472.0 477.0	<0.01	<0.01	0.01	<0.01	<0.002
	cf. 459.0-466.5							
	477' E.D.H.							



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. # : A8112877-001-A
 INVOICE # : 18112877
 DATE : 28-AUG-81
 P.C. # : NCNE
 JC 21-5

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

Sample description	Prep code	Cu percent	WC3 percent	Sn percent	Ag (FA) oz/t	Au (FA) oz/t	
97640	207	<0.01	<0.01	<0.01	0.01	<0.003	--
97641	207	<0.01	<0.01	<0.01	<0.01	<0.003	--
97642	207	<0.01	<0.01	<0.01	<0.01	<0.003	--
97643	207	<0.01	<0.01	<0.01	<0.01	<0.003	--
97644	207	<0.01	<0.01	0.03	<0.01	<0.003	--
97645	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97646	207	<0.01	<0.01	0.02	<0.01	<0.003	--
97647	207	<0.01	<0.01	0.02	<0.01	<0.003	--
97648	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97649	207	<0.01	<0.01	0.02	<0.01	<0.003	--
97650	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97651	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97652	207	0.05	<0.01	0.04	0.07	<0.003	--
97653	207	<0.01	<0.01	<0.01	0.02	<0.003	--
97654	207	<0.01	<0.01	0.01	0.01	<0.003	--
97655	207	<0.01	<0.01	0.01	0.02	<0.003	--
97656	207	<0.01	<0.01	0.01	0.02	<0.003	--
97657	207	<0.01	<0.01	0.03	0.01	<0.003	--
97658	207	<0.01	<0.01	0.03	0.03	<0.003	--
97659	207	<0.01	<0.01	0.03	0.03	<0.003	--
97660	207	<0.01	<0.01	0.04	0.02	<0.003	--
97661	207	<0.01	<0.01	0.05	0.01	<0.003	--
97662	207	<0.01	<0.01	0.03	0.01	<0.003	--
97663	207	<0.01	<0.01	0.02	0.01	<0.003	--
97664	207	<0.01	<0.01	0.03	0.02	<0.003	--
97665	207	<0.01	<0.01	0.02	0.02	<0.003	--
97666	207	<0.01	<0.01	0.02	0.02	<0.003	--
97667	207	<0.01	<0.01	0.03	0.02	<0.003	--
97668	207	<0.01	<0.01	0.02	0.03	<0.003	--
97669	207	<0.01	<0.01	0.02	0.03	<0.003	--
97670	207	<0.01	<0.01	0.02	0.02	<0.003	--
97671	207	<0.01	<0.01	0.01	0.02	<0.003	--
97672	207	<0.01	<0.01	0.02	0.02	<0.003	--
97673	207	<0.01	<0.01	0.02	0.01	<0.003	--
97674	207	<0.01	<0.01	0.03	0.01	<0.003	--
97675	207	<0.01	<0.01	0.01	0.01	<0.003	--
97676	207	<0.01	<0.01	0.02	0.02	<0.003	--
97677	207	<0.01	<0.01	0.02	0.02	<0.003	--
97678	207	<0.01	<0.01	0.02	0.01	<0.003	--
97679	207	<0.01	<0.01	0.01	0.01	<0.003	--

.....
 Registered Assayer, Province of British Columbia





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CERTIFICATE OF ASSAY

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

CERT. # : A8112877-002-A
INVOICE # : 18112877
DATE : 28-AUG-81
P.C. # : ACNE
JC 31-5

ATTN: C.C. COVFE CC: L.J. NAGY

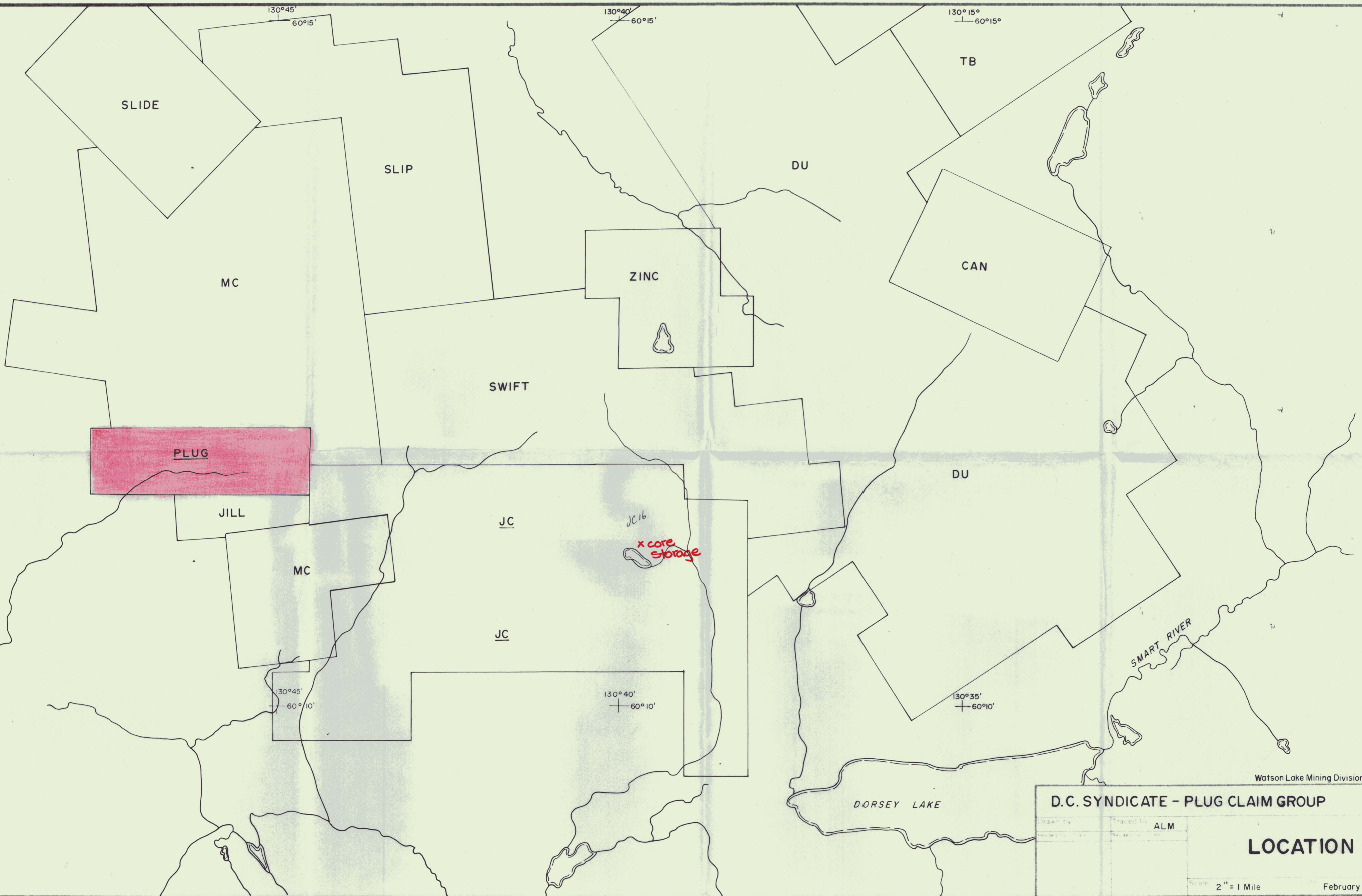
Sample description	Prep code	Cu percent	WC3 percent	Sn percent	Ag (FA) oz/t	Au (FA) oz/t	
97680	207	<0.01	<0.01	0.02	0.01	<0.003	--
97682	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97683	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97684	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97685	207	<0.01	<0.01	0.02	0.01	<0.003	--
97686	207	<0.01	<0.01	0.03	0.01	<0.003	--
97688	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97689	207	0.01	<0.01	0.02	0.01	<0.003	--
97690	207	<0.01	<0.01	0.01	<0.01	<0.003	--
97691	207	<0.01	<0.01	0.02	0.01	<0.003	--
97692	207	0.01	<0.01	0.02	0.01	<0.003	--

B. Swartz

.....
Registered Assayer, Province of British Columbia



MEMBER
CANADIAN TESTING
ASSOCIATION



JC16
x core storage

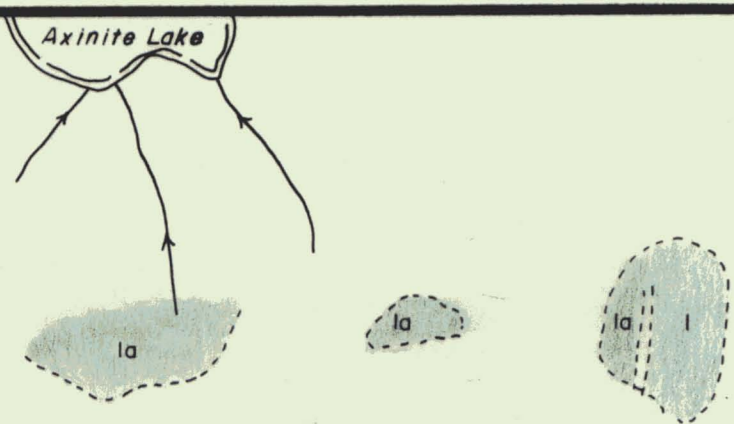
090988

Watson Lake Mining Division NTS 105 B/4

D.C. SYNDICATE - PLUG CLAIM GROUP

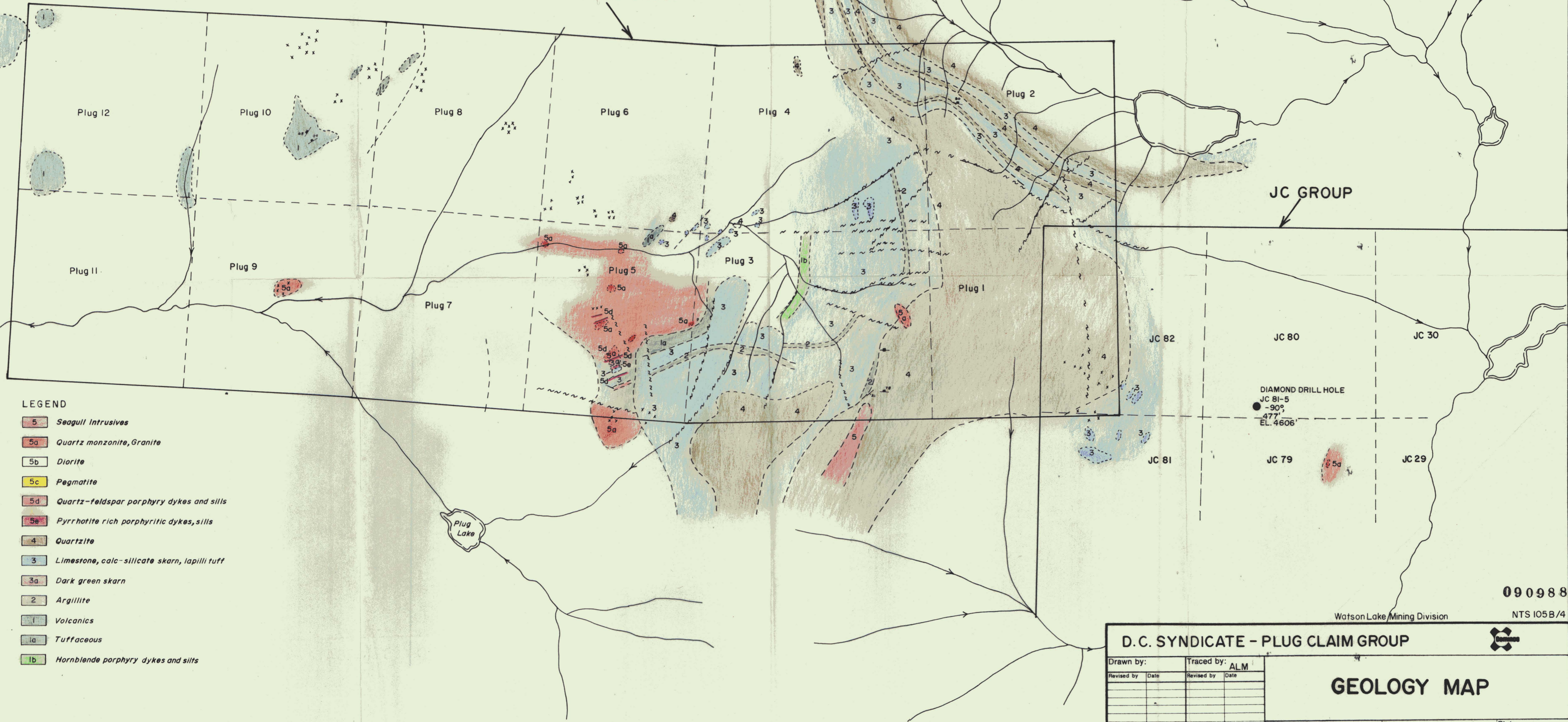
Drawn by: Traced by: ALM

LOCATION MAP



PLUG GROUP

JC GROUP



- LEGEND**
- 5 Seagull Intrusives
 - 5a Quartz monzonite, Granite
 - 5b Diorite
 - 5c Pegmatite
 - 5d Quartz-feldspar porphyry dykes and sills
 - 5e Pyrrhotite rich porphyritic dykes, sills
 - 4 Quartzite
 - 3 Limestone, calc-silicate skarn, lapilli tuff
 - 3a Dark green skarn
 - 2 Argillite
 - 1 Volcanics
 - la Tuffaceous
 - lb Hornblende porphyry dykes and sills

DIAMOND DRILL HOLE
 JC 81-5
 -90°
 477'
 EL. 4606'

090988

NTS 105B/4

Watson Lake Mining Division

D.C. SYNDICATE - PLUG CLAIM GROUP

Drawn by:	Traced by: ALM
Revised by:	Revised by:
Date:	Date:

GEOLOGY MAP

Scale: 1" = 500 Feet Date: February 1982 Plate: P-8/-2