MAP NO.: 105D 11

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 093090
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: DIAMOND DRILLING

REPORT FILED UNDER: KREFT

DATE PERFORMED: JUNE 4 - AUGUST 19, 1986 **DATE FILED:**

LOCATION: **LAT.:** 60°41'N **AREA:** WHITEHORSE

LONG.: 135°21'W **VALUE $:**

CLAIM NAME & NO.:
RUTH 1-4

WORK DONE BY: ANDREW HUREAU

WORK DONE FOR: E. KREFT

DATE TO GOOD STANDING:

REMARKS: REPORT COMPLETED FOR EXPLORATION INCENTIVE PROGRAM.
DIAMOND DRILLING ON JACKSON CREEK
DESIGNATED NUMBER EIP86-001

4 holes 457 meters

EIP 86 - 001

DIAMOND DRILLING REPORT

RUTH 1-4 CLAIMS (YA 93146 - YA 93149)

NTS 105 D 11 W ($60^{o}41'20"N$, $135^{o}21'45"E$)

by

A. HUREAU

for

E. KREFT

4 JUNE 86 to 19 AUG. 86

TABLE OF CONTENTS

LIST OF PLANS & SECTIONS

SUMMARY AND RECOMMENDATIONS

Four holes with an aggregate footage of 1494' were drilled in June and July '86 on the Jackson Creek property 8 miles west of Whitehorse. Drilling was done to follow up gold mineralization in skarn intersected in previous drilling, Vis. 1.3' @ 2.55 opt (15' @ 0.29) in KT 7, 1976 and 3' @ 0.356 opt in M1, 1983. Holes K 86-01, 02, 03 drilled below and east of the above intersections encountered only low gold values in the skarn. Previous drilling in 1975-1976 west of KT 7 also failed to intersect significant gold values. The zone of gold mineralization is now considered to be too small to warrant further work.

The wide skarn zone (160') intersected in K 86-03, 350' east of KT 7 proves the continuity of the skarn zone to the east and the favourable sediments-intrusive contact east of K 86-03 for two miles to Franklin Lake is largely overburden covered and remains relatively unexplored. Detailed magnetometer and soil sampling surveys on this contact may detect anomalies resulting from mineralization in the skarn.

A mapping and sampling program sponsored by DINA, currently in progress, may also reveal areas requiring further work west of the zone drilled.

Hole K 86-04, drilled to test a small magnetic anomaly, failed to intersect magnetic skarn. The skarn zone is small and apparently does not persist to the depth of the hole.

Trenching was done east of KT-7 to reveal the extent and attitude of dykes before locating K 86-03. Trenching was also carried out to reveal bedrock in an area 500' NW of K 86-04 where grab samples ran 0.04 gold and to 14 oz silver. The owner plans to drill this showing with a Winkie drill.

INTRODUCTION

Copper, gold, silver bearing calc-silicate and magnetite skarn zones occur north of Jackson Creek at the contact of Upper Triassic Lewes River clastic sediments and carbonates with quartz-monzonite and granodiorite of the Eocene suite of volcano-plutonic rocks, at the east margin of the Coast Plutonic Complex.

The skarn zones at Jackson Creek, are outside the Whitehorse Copper Belt, which is along the contact of the mid-Cretaceous Whitehorse Batholith with Lewes River rocks, similar to those at Jackson Creek. The mineralogy and setting of the skarn zones are similar.

LOCATION, ACCESS AND TOPOGRAPHY

The main showings are located on the north side of Jackson Creek at 60°41'20"N, 135°21'45"W on NTS sheet 105 D 11W, 8 miles west of Whitehorse.

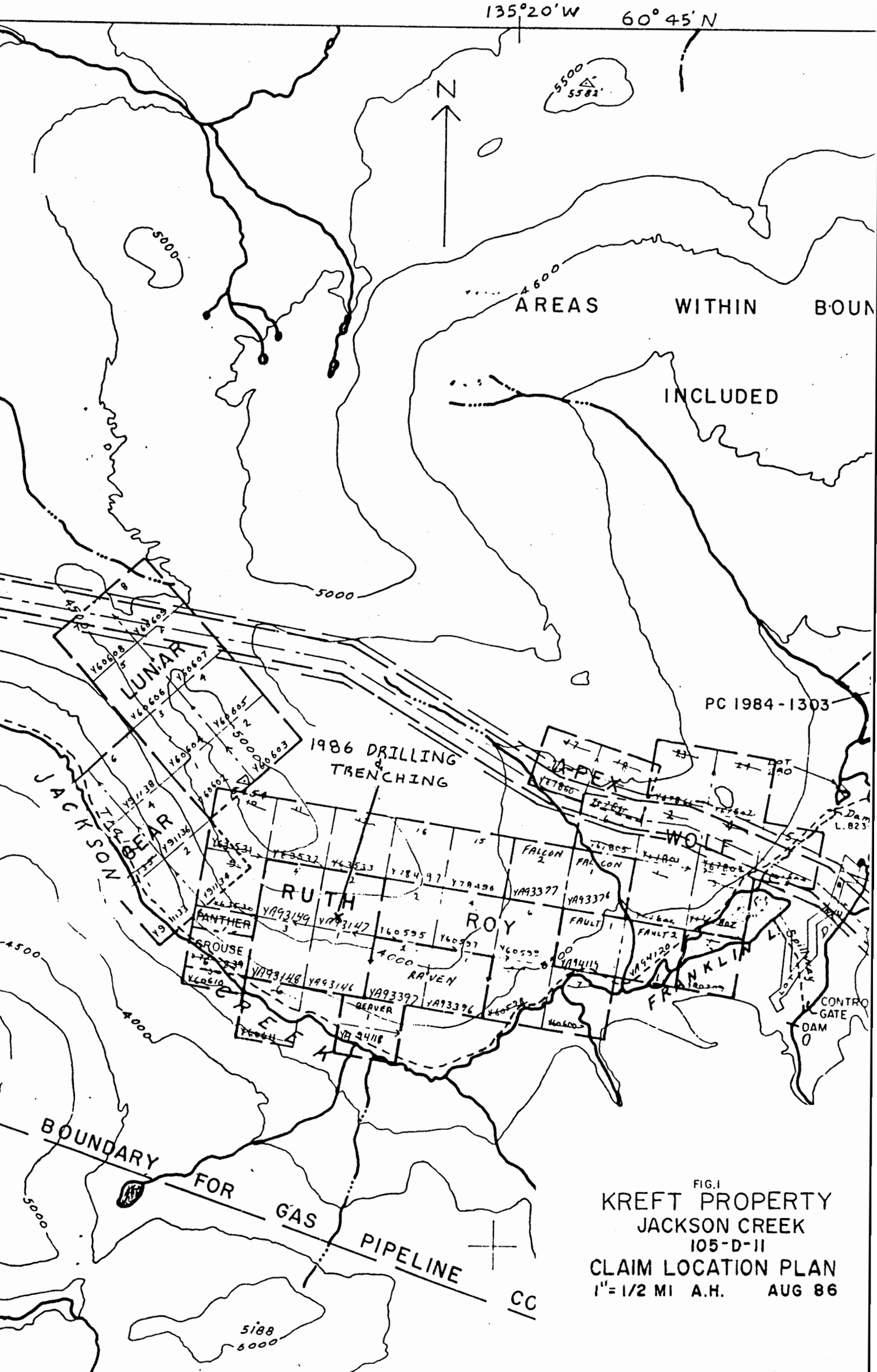


FIG.I

KREFT PROPERTY

JACKSON CREEK

105-D-11

CLAIM LOCATION PLAN

1"= 1/2 MI A.H. AUG 86

GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

735 Q — ALLUVIUM, GLACIAL DRIFT

746 10 — MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 9a — ACIDIC GRANITIC, APLITE, FELSITE, 9a - may predate skarn

734½ 9b — BASIC ANDESITE, DIORITE, POST-ORE, 9bx-porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

758 8 — DIORITE — 8a ALTERED (ENDOSKARN); 8l MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 7 — 7g GRANITE, 7b GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ 6 — LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740½ 5 — LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736½ 4 — QUARTZITE, GREYWACKE, SILTSTONE, TUFF ARGILLITE, ARKOSE — 4q QUARTZITE; 4g GREYWACKE; 4k ARKOSE

738 3 — SKARN BARREN, WITH ..... a-ACTINOLITE, c-CHLORITE, d-DIOPSIDE, e-EPIDOTE, f-FELDSPAR, g-GARNET, s-SERPENTINE, t-TREMOLITE, w-WOLLASTONITE, z-ZOISITE

745 2 — SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH .....

745 1 — SKARN MAGNETITE, BORNITE, CPY, VALERIITE, COPPER OXIDES, WITH .....

JUNE 1986 TRENCHED OB 50'x12'x4' 90 CU yds

0.09 AU, 0.01 AG, 1.69% CU, 41.9% BN

0.09 AU, 16.67 AG, 3.78% CU, 10.9% ZN

CORE RACK

CABIN

1986 TRENCHED OB 200'x10'x4' 300 CU yds

M86-01

M86-02 -70° 90°

M86-03

M86-04 -70° 34°

KB6-01 -70° 33°

KB6-03 -70° 36°

KB6-04 -70° 34°

RUTH 4 YA93149 | RUTH 2 YA93147

RUTH 3 YA93148 | RUTH 1 YA93146

RUTH 2 YA93197 | ROY 2 Y60546

RUTH 1 YA93196 | RAVEN 2 YA93397

00 E — 1290 — 00 B — 10 E — 20 E — 1100 N B

FIG. 2
KREFT PROPERTY
JACKSON CREEK
105-D-11
GEOLOGY & DRILLING PLAN
A. HUREAU 1"=100' AUG 86

093090

DWG 139

Slopes on the hillside are in the order of 30° rising from 3300' in the valley floor to 5454' above the main showings which are at an elevation of 4100'.

From June to November the showings are accessible by a farily good four wheel drive road from the west end of Franklin Lake two miles east. A cat trail was put in along the valley floor to a point on the creek south of the showings, to provide access to a water pump used for drilling. A four wheel drive road from west of Franklin Lake along the north side of the mountain put in by Zelon Inc. and E. Kreft in 1981 provides access to showings on the west end of the property.

OWNERSHIP

Twenty eight claims are held by E. Kreft (Takhini Hot Springs). A list of claims is attached as Appendix A.

HISTORY

The showings were found by E. Kreft and S. Takacs in 1970-71. New Jersey Zinc optioned the property in 1972 and completed a program of geological mapping, a magnetometer survey and six diamond drill holes with an ggregate footage of 1459'. N. J. Z. geologists apparently assumed that the dip of the mineralized zones was at a shallow angle to the north i.e. conformable to that of the sediments above the showings; their holes failed to intersect any significant skarn or mineralization and the option was dropped.

Whitehorse Copper Mines optioned the property in late 1974 and in 1975 extended the geological mapping and magnetometer surveys, trenched one of the larger magnetic anomalies, improved access roads and drilled six holes with an aggregate footage of 1401'. All holes except KT 5 (drilled 700' east of the most easterly showings) and KT 6 (not completed) intersected generally low grade copper mineralization skarn in the order of 40 to 80' thick while hole KT 3 on sect 8E intersected 20.1' at 5.6% Cu 7.9 oz/ton Ag and 0.03 oz/ton Au. Hole KT 4, drilled to intersect the high grade mineralization 100' down dip, intersected 60' of magnetite skarn with low copper and gold values.

Four holes (aggregate of 1550') were drilled by Whitehorse Copper Mines in 1976. KT6A and KT7 were drilled to test along strike the mineralization intersected in KT3. KT6A 100'W of KT3 intersected 28' of weakly mineralized skarn. KT7, 100'E of KT3 intersected high gold and bismuth values with assays of 1.3' @ 2.55 oz/ton Au and 5.8% Bi (re assay 3.90 oz/ton Au) or 15' @ 0.29 oz/ton Au. The high grade zone like that in KT3 was at a vertical depth of 110' and was 180' horizontally from the hill slope below the showings. The high gold values were in actinolite skarn in a grey metallic mineral believed to be bismuthinite.

At the completion of the '76 program it was decided by WCM that the potential tonnage was too small and the option was dropped.

The property was optioned by Zelon in 1981. Zelon carried out a soil sampling program on the north side of the mountain and put in a four wheel drive road to reach showings at the west end of the property. Zelon failed to meet other obligations stated in the agreement and the option was terminated.

The property was optioned by M. Nichiporek who drilled three holes (aggregate 285'). Hole M1 intersected 3' @ .356 opt Au 40' above that in KT7. The option was subsequently dropped.

The 1986 drilling program by the owner was designed to explore the known gold mineralization down dip and to the east and to drill previously untested showings. Four holes (1494') were completed extending the skarn zones but intersected only low gold values. Logs and sections showing drilling results accompany this report.

A list of holes is attached as Appendix B.

A list of persons who worked on the property is attached as Appendix C.

A study of the property initiated by DINA in 1986 is currently in progress.

GENERAL GEOLOGY

The property is located in the northwest margin of the Intermontaine Belt of the Canadian Cordillera in the western part of the Whitehorse Trough. The Western belt of the Whitehorse Trough consists of an island arc assemblage of mafic volcanic and volcano-sedimentary rocks grading upward and basinward into greywacke, siltsone and minor conglomerate capped by carbonate reef complexes. The island arc assemblage is overlain by a successor basin assemblage of Jurassic-Cretaceous conglomerate, greywacke, siltstone and sandstone (Laberge group).

The volcano-sedimentary rocks of the Whitehorse Trough are intruded by quartz diorite plutons of mid Cretaceous to Eocene ages which are part of the Coast Intrusive Complex. Calc silicate and magnetite skarn zones occur near the contact of Lewes River carbonate rocks with these intrusions.

Triassic and Jurassic volcano-sedimentary rocks,Coast Intrusions and skarn zones are all cut by dykes related to Coast Intrusions and Quarternary Miles Canyon Basalt.

LOCAL GEOLOGY

Lewes River Group

Siltstone greywacke and fragmental rocks (unit 4 on map) are overlain by several hundred feet of white and grey limestone, dolomitic limestone and black carbonaceous limestone (Unit 5 on map). The carbonate units are irregular and form discontinuous lenses which grade out into interbedded siltstone tuff and calcareous siltstone. The carbonate units are overlain by greywacke, sandstone and conglomerate which are probably correlative with Laberge rocks. In the area of the main showings, where drilling was done, the clastic rocks underlying the carbonate units appear to be in an asymetrical antiform with the upper limb dipping at approximately 30^{o} to the NE and the lower limb being near vertical.

Coast Intrusions

Lewes River rocks are intruded by an Eocene (55 My) quartz monzonite grandiorite pluton. It is coarse grained leucocratic, weakly porphyritic and shows only weak argillic alteration near the contact. Drilling in the area of the showings indicates that the pluton there dips from 30^{o}+ 065^{o}NE.

An irregular plug of rusty weathering dark grey diorite intrudes the sediments above the main showings. It contains approximately 2% pyrrhotite with traces of CP. This intrusion (unit 8 on maps) is considered to be a phase of the Jackson Creek pluton.

Skarn Zones

Erratic skarn zones to 100' thick (garnet, epidote, actinolite : diopside and magnetite with minor serpentine) occur at the carbonate-intrusive, carbonate-siltstone and siltstone intrusive contacts. The siltstone - greywacke is locally skarnified and is locally recrystallized to diotitic texture. Copper mineralization (Chalcopyrite, bornite with magnetite and pyrrhotite) distribution within the skarns is erratic with the best copper gold and silver intersections associated with actinolite diopside, magnetite skarn. Oxidation of the sulphide and magnetite zones extends only a few feet below surface.

Little work has been done on the large skarn zones at the west end of the property. The calc-silicate skarns there contain little copper mineralization. The occurrence of erythrite has been reported there by the owners. The contact between the west showings and the main showings is well exposed and little mineralization has been found along it.

Faults

Several north and northeast trending gullies probably reflect faults. In a gully on the south side of Jackson Creek limestone and dolomite on the east side of the creek are in fault contact with siltstone and greywacke on the west side of the creek for nearly a mile.

Only minor faults were encountered in drilling. Ground conditions were good.

GEOPHYSICAL RESULTS

Magnetic surveys in 1975 using a vertical field Sharp MF. 1 magnetometer outlined the magnetite bearing skarns. Both the quartz-monzonite and diorite intrusions have a higher magnetic intensity than the limestone and clastic rocks so that the intrusive contacts can be delineated easily. Since some of the better grade copper-gold mineralization was associated with skarn that has little magnetite and the near massive magnetite skarns were generally low grade, a magnetometer survey, using a proton mag, may better delineate the trends of weakly magnetic skarn zones to assist in drilling. The diorite above the showings is variably magnetic and while the MF-1 survey generally outlines the intrusive a proton mag survey would probably define the contacts more accurately.

The G.S.C. aeromagnetic map 105-O-11 gives a general outline of the Jackson Creek intrusion. Chalcopyrite has been reported (G. Morrison) in the sediments near the south east end of this intrusion south of Jackson Creek and in float in a creek draining this area (E. Kreft).

A test survey in 1976 over the high grade intersection in KT3 (20' @ 5.6% Cu) using a Crone "Shootback" instrument gave a very weak anomalous response. EM16 surveys northwest of Franklin Lake yielded several anomalies the strongest of which gave a very low response using EM 16 and Crone instruments. Trenching of the anomaly uncovered pyritic greywacke at bedrock.

1986 DRILLING RESULTS

K86-01 (Sect. 1000E) passed from hornfelsed pyroclastics to skarn at 91' indicating a steep dip to the north for the original limestone-pyroclastics contacts. The hole was in skarn and dykes to the intrusive contact at 326'. A graphite rich skarn zone at 115' is believed to correlate with the zone of gold mineralization on sect. 900E. All gold assays were low. Bismuth content with which the gold was associated in KT7 was also low. Minor copper, scheelite and zinc were present.

K86-02 (Sect. 900E) was drilled under KT7. Little skarn was encountered and gold values were low. The hole was in a dyke for approximately 43' in the projected skarn zone. The intrusive was reached without intersecting the FW pyroclastics.

K86-03 was drilled 350' east of KT7 and intersected a wide (160') skarn zone consisting mainly of garnet-epidote. The FW pyroclastics were not intersected and were probably cut off by the intrusive. They have been mapped near the intrusive contact 2000' east and where in contact there with carbonates would provide a favourable locus for mineralization.

K86-04 drilled to test a small magnetic anomaly passed through limestone, hornfels and numerous dykes before entering a strongly altered intrusive. The source of the anomaly apparently does not persist to the depth of the hole.

TRENCHING

Trenching was done east of KT7 (Fig.2) to reveal the extent and attitude of post ore dykes before hole K 86-03 could be located. Trenching was also done to expose bedrock 500' NW of K86-04 where grab samples assayed 0.04 Au and to 14 opt Ag. The proposed hole to test this zone was postponed and the owner plans to drill the showing with a Winkie drill.

REFERENCES

MORRISON, G. W.	1981	Setting and Origin of Skarn Deposits in the Whitehorse Copper Belt. PH.D. Thesis University of Western Ontario.
REID, R. E.	1975	Kreft-Takacs - Summary Report Whitehorse Copper Mines
SINCLAIR ET AL	1976	M. I. R. Yukon Territory P 101-104
TENNEY, D.	1976	Whitehorse Copper Mines Company Correspondence
WHEELER, J. O.	1953	Whitehorse Map Area G. S. C. Mem. 312

APPENDIX A

CLAIMS LIST

JACKSON CREEK (105-D-11)

LUNAR 1-8	Y60602 to Y60609
GEAR 1, 2, 4, 6	Y91133, 34, 36, 38
RUTH 1, 2, 3, 4	YA93146, 47, 48, 49
ROY 2, 4, 6, 15, 16	Y60595, 97, 99, Y78496, 97
FAULT 1, 2	YA94119, 20
FALCON 1, 2	YA 93376, 77
RAVEN 1, 2	YA 93396, YA 93397
BEAVER	YA 24118

APPENDIX B

DRILL HOLE SUMMARY

HOLE #	N	E	EL	AZ	DIP	SIZE	OB DEPTH	DEPTH	START/COMPLETE
K86-01	098	987	4059	039°	-70°	NQ	10'	334'	14/17 June/86
K86-02	259	900	4152	219°	-70°	NQ	13.5'	442'	18/22 June/86
K86-03	435	1130	4222	197°	-60°	NQ	16'	369'	24/29 June/86
K86-04	330	330	4183	301°	-70°	NQ	14	349'	30 June/ 5 July/86
							Total -	1494'	

Drilling Contractor: D. McKenna
Kluane Drilling
65 - 100 Lewes Blvd.
Whitehorse, Y. T.

Tractor Contractor: A. Fekete
112 Park Lane
Whitehorse, Y. T.

APPENDIX C

The following personnel worked on the property during the June/July 86 drilling program:

Jacques Duchaine		Takhini Hot Springs
B. Kreft		Takhini Hot Springs
E. Kreft		Takhini Hot Springs
A. Hureau		32 Stewart Rd. Whitehorse
D. McKenna	Drilling Contractor	65-100 Lewes Blvd., Whitehorse
J. Kelly	Driller	65-100 Lewes Blvd., Whitehorse
N. Grimley	Driller	65-100 Lewes Blvd., Whitehorse
A. Fekete	Tractor Contractor	112 Park Lane, Whitehorse

Report Preparation - A. Hureau - 6 days

APPENDIX D

STATEMENT OF QUALIFICATIONS

ANDREW HUREAU

ADDRESS: 32 Stewart Road
Whitehorse, Y. T.
Y1A 3S3

EDUCATION: BSc. Geology 1961

EMPLOYMENT: Employed 23 years in Mining and Exploration Geology including 12 years on Whitehorse Copper Belt. Currently employed as Senior Geologist with Terra Mines Ltd. Edmonton, Alberta.

REGISTRATION: Fellow of Geological Association of Canada

A. Hureau
14/Aug./86

EXPLORATION ASSAY DATA

Property KREFT
105D 11

Date 20/6/86
Page No. 1

Sample No.	Hole No.	Footage From	Footage To	Length	Rec.	%Cu	oPT Au	oPT Ag	% Bi	% WO3	% ZN
C95210	K86-01	90.5	91.6	1.1	1.1		<0.002	0.03			
211		91.6	96.0	4.4	4.4		0.002	<0.02			
212		96.0	101.0	5.0	5.0		0.003	<0.02			
213		101.0	106.0	5.0	5.0		0.002	<0.02			
214		106.0	113.4	7.2	7.2		0.003	<0.02			
215						Not Used					
216		113.4	115.0	1.6	1.6	0.02	0.002	<0.02	0.02	0.07	
217		115.0	116.2	1.2	1.2	<0.01	0.002	<0.02	0.01	0.02	
218		116.2	118.0	1.8	1.8	0.08	0.002	0.07	0.04	0.02	
219		118.0	124.0	6.0	6.0		0.003	<0.02	0.02		
220		124.0	130.3	6.3	6.3		0.002	<0.02		0.02	
221		130.3	132.5	2.3	2.3		<0.002	<0.02	0.01	0.04	
222		132.5	135.8	3.3	3.3		0.02	0.24	0.03		
223		148.3	154.0	5.7	5.7	0.290	<0.002	0.27	0.02	0.02	0.03
224		154.0	160.0	6.0	6.0		<.002	<0.02	0.03		0.03
225		160.0	166.2	6.2	6.2		<0.002	<0.02	0.03		0.02
226		171.0	175.0	4.0	4.0	0.310	0.003	0.89	0.02	0.02	
227		175.0	177.3	2.3	2.3	0.320	<0.002	0.26			
228		177.3	183.0	5.7	5.7	0.09	<0.002	0.16	0.02	0.06	
229		183.0	188.0	5.0	5.0	0.03	<0.002	0.02	0.02		
230		188.0	189.3	1.3	1.3	1.860	0.008	1.27	0.02	0.02	0.38
231		189.3	195.0	5.7	5.7		<0.002	0.02		0.01	
232		195.0	200.5	5.5	5.5	0.150	0.011	0.18	0.05	0.02	0.03
233		200.5	203.3	2.8	2.8	0.370	0.031	0.58	0.07	0.02	0.06
234		203.3	206.2	2.9	2.9		0.002	0.08	0.02		
235		224.5	229.2	4.7	4.7		0.003	<0.02			
236		231.3	235.7	4.4	4.4		0.002	0.03	0.01		
237		235.7	242.5	6.8	6.8	0.01	<0.002	<0.02	0.02		0.18
238		265.8	270.2	4.4	4.4		0.004	0.03	0.03		
239		321.4	323.0	1.6	1.6		0.005	<0.02	0.04		
C95240		323.0	325.7	2.7	2.7		<0.002	<0.02	0.01		

YUKON TERRITORY

PROPERTY E KREFT	Claim No. Ruth 2 YA 93147	Strike N (039°)	Lat. 098 N	Hole No. K 86-1
Date 19/6/86 19	Section No. 1000 E	Dip -70°	Dep. 987 E	Total Depth 334
Logged By A. HUREAU	Plan No.	Level Surface	Elev. 4059'	Page No. 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	11		Rubble - casing										
11	17.2	4	Tuff - lt g dk gy/brn hornfelsed pyroclastics, bleached along fracts py in streaks & blebs	py	2								
17.2	20.8	9	dyke - med gy latite dyke phenos to 2mm altd to chl & ep Ca stks to 2mm, occ specs dissem py, contact along core	py	1								
20.8	91.6	4	Tuff - gy brn hornfelsed tuff silt to sand size particles, anhedral to euhedral grains to 3mm. 35' bnding irreg 0-30° dissem py - po wkly magnetic throughout, bleached gy grn along fracts, 53' good bnding (Sts - Sds) 20° 48'-65' bleached fracts w stks py, po. 63'-77' bnding 40°-50° 84' " 30°										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Treme, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
			in Fg bio rich ground mass From 90.5' strongly bleached, silicified, minor ca, buding 20° dissem po, py, cp, 3% sic. Contact with 3g 10°										
			Sample 90.5 - 91.6	po, py, cp,	3%	C95210	1.1	1.1					<.002/.03
91.6	111.6	3	g // ca, m, a, s, d, dominantly garnet Sharn buff to red brn xtals to 1cm loc zoned replacing pyroxene occ Specs mag. Vague bnd ing @ 100' 40°, 110' - 60°, occ specs py, 2 cm ca filled Fract 10° 91.6 - 92.1	py mag	<1%								
			Samples 91.6 - 96.0			C95211	4.4	4.4					.002/<.02
			96.0 - 101.0			12	5.0	5.0					.003/<.02
			101.0 - 106.0			13	5.0	5.0					.007/<.02
			106.0 - 113.9			14	7.2	7.2					.003/.02
111.6	117	3	g, a, m / ca ± s Sharn red, grn, blk, mag in bnds & patches 5%, garnet xtals to 1cm loc zoned										
			115 - 116.2 5% soft black mineral w dn grey metallic streak in 3ad/sg - poss bi, pb sulphide does not appear lustrous enough to be bismuthinite	graphite									
			116.2 - 116.6 40% mag, 116.6, Specs cp, Moss on Fract @ 115.5'	mag	5								
				bi ph ?	3								
				cp	<1								

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
	117'		Samples 113.4 – 115.0			C95216	1.6	1.6				.002 / <.02	
			115.0 – 116.2			217	1.2	1.2				.002 / <.02	
			116.2 – 118.0			218	1.8	1.8				<.002 / .07	
117	120	3	dg Sltarn grn brn minor Chl, lower ct 70°										
120	129.7	3	d,q,e,s,c, Sltarn, pale – dk grn & blk lower ct 50° no sic seen										
			Samples 118.0 – 129.0			219	6.0	6.0				.003 / <.02	
			129 – 130.3			220	6.3	6.3				.002 / <.02	
129.7	130.3	3	dg Sltarn red grn lower ct 75°										
130.3	132.5	3	d,a,g,m, Sltarn grn #3% mag garnet bnd @ 35°	mag	3%								
			Samples 130.3 – 132.5			221	2.2	2.2				<.002 / <.02	
132.5	135.8	3	s,m,d, Sltarn grn blk 20% mag	mag	20								
			Strks & specs cp from 134', 1/2% cu,	cp	2								
			70° Sample 132.5 – 135.8			222	3.3	3.3				.02 / <.02	
135.8	148.3	5	limestone gy bnded (55°) brn pyritic (1%) bnd 138.7 – 139.5, ct @ 135.8 80°										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
148.3	166.2	3	Mas & ca Skarn grn blk banding 70°-90° lower ct 40° stks & blebs cp, py to 150' (1%cu) occ spec cp in remainder, radiating act xtals 151.8', py in fract fillings & occ euhedral grains from 160'										
			Samples 148.3 - 154.0			C95223	5.7	5.7				<.002 / 0.27	
			154.0 - 160.6			224	6.0	6.0				<.002 / <.02	
			160.0 - 166.2			225	6.2	6.2				<.002 / <.02	
166.2	171	5	LS wh xtalline lower ct gradational										
171	175	5	/3ms wh, gy marble with buds & patches mag & serp, 1.5" bud w 20% cp @ 173' banding 70° @ 173.5' patch cp w blk Sphal & mag w coarse xtalline ca xtals to 1cm										
			Sample 171 - 175			226	4.0	4.0				.003 / 0.49	
175	177.3	3	M,gs, & ca, Skarn grn blk, patches & specs cp, po (0.25% cu) lower ct gradational	cp									
			Sample 175 - 177.3			227	2.3	2.3				<.002 / 0.26	
177.3	188	3	sm/s partially Skarnified LS, occ specs cp, patches py @ 181' Sample 177.3 - 183.0			228	5.7	5.7				<.002 / 0.16	

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
188	189.3	3	S,m & Ca. Smarn w 10% cp Sample 188 - 189.3	cp	10	C95230	1.3	1.3				.008/1.27	
189.3	200.5	3	a,s,g,m Smarn, lt & dk grn act partially altd sericite & chl, rare specs cp. 1' mag rich bnd (20%) From 196.3, mag increasing toward lower ct Sample 189.3 - 195.0			C95231	5.7	5.7				<.002/.02	
			195.0 200.5			C95232	5.5	5.5				.011/0.18	
200.5	203.3	3	S,M, Smarn pale grn - blk, patches cp, rare po 0.5% cu Sample 200.3 - 203.3			233	2.8	2.8				0.031/0.58	
203.3	206.2	3	d,e,a, s, w, Smarn buff - lt-dk grn granitic text to 204.2'. Wollastonite (trem?) xtals to 2cm @ 203' lower ct 50°, Sample 203.3 - 206.2			234	2.9	2.9				.002/.08	
206.2	224.5	7b	Granodiorite dyke to 212' < 5% chloritized mafics, altd anhedral Felds grains < 3mm From 212 relatively Fresh hbde bio granodiorite, chloritized hbde xtals to 5mm, 10%, qtz on fracts to 4mm epidote, act alt From 223.5. lower ct 40°										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au / Ag	Insol
224.5	229.2	3	g/m,s,e,c, skarn, brn/grn, blk. mag in irreg patches & bnds replacing silicates, strongly chloritized @ lower ct. Sample 224.5 - 229.2			C95235	4.7	4.7				.003 / <.02	
229.2	231.3	7b	granodiorite dyke, altd (epidote chl) cts 40°										
231.3	235.7	3	ds // m pale to dk grn skarn w occ specs mag, lower ct 30°			C95236	4.4	4.4				.002 / .03	
235.7	242.5	3	m/s & ca skarn blk & grn, bnding 30-40° interstital ca, brn submetallic min w brn strk sphalerite? poss vallerite. rare spec cp broken @ lower ct. Sample			C95237	6.8	6.8				<.002 / <.02	
242.5	265.8	5	Limestone wh-gy occ bnds & strks serp bnding 30°, rare spec mag. lower ct 35°										
265.8	270.2	3	M, S, d, skarn blk-grn no sil seen cts 35° - 40°			C95238	4.4	4.4				.004 / .03	
270.2	321.4	9	Latite dyke brn, gy, grn 10% euhedral to anhedral saussoritized Fels phenocrysts to 3mm 2% chloritized mafic phenocrysts 1.5 " chilled ct (upper) 45° lower 80°										

Hole No LL86-01 Page No 7

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
321.4	323	3	m/sd blk-grn sharp no src seen										
			Sample 321.4 - 323.0			C95239	1.6	1.6					
323	325.8	3	sd/m sharp dk-lt grn loc wkly magnetic										
						C95240	2.7	2.7					
325.8	334.	7	b Granodiorite - to 10% chloritized bbdc bio, anhedral to euhedral flds to 1cm. Strongly sltd Saussuritized From 327.5-331' remainder with fresh appearance occ fg hornfels inclusions.										
	334		Hole Stopped.										

EXPLORATION ASSAY DATA

Property KREFT - JACKSON CREEK
105.04

Date 23/6/86
Page No. 1

Sample No.	Hole No.	Footage From	Footage To	Length	Rec.	%Cu	Au (OPT)	Ag (OPT)	Bi	Remarks
C95241	K86-02	278	280.2	2.2	2.2		<0.002	0.03	0.01	
C95242	"	280.2	282.3	2.1	2.1		0.002	0.03	0.02	
C95243		326.5	329	2.5	2.5		<0.002	0.02	0.01	
C95244		329	331.1	2.1	2.1		<0.002	<0.02	0.01	
C95245		372.2	373	0.8	0.8		<0.002	<0.02	0.01	

PROPERTY KREFT - JACKSON CREEK	Claim No. Ruth 2 YA 93147	Strike S (219°)	Lat. 2591N
Date 22/6/ 19 86	Section No. 900 E	Dip -70°	Dep. 900 E
Logged By A. HUREAU	Plan No.	Level SURFACE	Elev. 4152

Hole No. K 86-02
Total Depth 442'
Page No. 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	13.5	ob	overburden - casing										
13.5	153.5	5	Limestone, wh, gy, rare patch serp, occ wispy segregated graphitic patches - V broken to 24.5' broken 81-83'										
153.5	155	gb	dyke - dk grn, chloritized, basic dyke c+s 35°										
155	234	5	Limestone - wh gy dappled xtalline, loc vague banding 20°, occ graphitic strks & patches.										
234	239	35/5	skarn gy grn banding 10° graphitic laminations from 237'										
239	275.3	5	Limestone wh/gy recrystallized strks - serp'd & graphitic from 267' gen 50°-20° 3" serp'd @ lower ct @ 55°										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
275.3	277	3	d,s,c, /7 Skarnified dyke c+s @ 55° & 65°										
277.0	278.5	5	/3S partially skarnified c s lower c+ 50°, 2" patch fg basic dyke @ 278'										
278.5	280.2	3	d/sc Skarn - pale grn diopside serp & chl on fracts Sample 278.5 - 280.2			C95241	1.7'	1.7				<.002/0.03	
280.2	282.3	3	m,a,s, /5 Skarn blk-grn, lower c+ gradational to Limestone Sample 280.2 - 282.3			C95242	2.1	2.1				0.002/0.03	
282.3	309.5	5	/3S Lime stone gy grn w incipient skarn on fracts grey graphitic bnds 15° - 20°. breccia appearance resulting from distruction of graphitic laminae										
309.5	312.8	5	grey-wh rc ltallized limestone lower c+ 50°										
312.8	325.7	9	dyke - pale gy Latite 5% fels pheno crysts to 5mm, chilled c+s										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
325.7	326	3	q sharn - pale brn red garnet										
326	326.5	5	Limestone wh - gy										
326.5	331.1	30	/m sharn - green act xtals radiating to 2cm occ patch mag interstitial ca, tr dissem py (<½%) lower ct 55°.										
			Samples 326.5 - 329			C95293	2.5	2.5				4.00Z/.02	
			329 - 331.1			C95294	2.1	2.1				<.002/<.02	
331.1	341.3	5	Limestone wh/gy @ 333' patch altd dyke (dyke ct along core)										
341.3	372.2	9	dyke gy grn altd as above cts 55° & 30°, from 354' rusty tr dissem py, phenos largely chloritized.										
372.2	373	3	at, grn wh rusty sharn acicular trem (w?) to 2cm occ spec mag & py cts 30° & 80°										
			Sample 372.2 - 373			C95295	0.8	0.8				<.002/<.02	

Hole No IC86-02 Page No 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
373'	414'	7	b Granodiorite highly altd Sects with 40% of Feldc altd to soft yellow brn serp, remainder wh-pale grn leucocratic 10%-20% Saussurite-chl. rusty & cnd Section 406-408.5'										
414'	442'	7	b-7m Fresh hbde. bio (5-10%) granodiorite to quartz monzonite wh Fels xtals to 2cm occ incl fg hornFels										
	442'		Hole Stopped										

EXPLORATION ASSAY DATA

Property Kreft - Jackson Creek

Date 12/8/86
Page No. ____

Sample No.	Hole No.	Footage From	Footage To	Length	Rec.	Cu PPM	PPB Au	Ppm Ag	%Bi	%WO3	%ZN
C95246	K86-03	90	95	5	5	2	5	0.5			
247		95	100	5	5	1	<5	<0.5			
247A		112.1	116.1	4	4						
247B		116.1	117.4	1.3	1.3						
247C		117.6	127.0	9.4	9.4						
248		193.1	194	0.9	0.9	33	45	<0.5			
249		199.3	199.9	0.6	0.6	90	<5	<0.5			
250		199.9	202.5	2.6	2.6	55	<5	<0.5			
251		202.5	207	4.5	4.5	21	<5	<0.5			
252		207	212	5.0	5.0	5	<5	<0.5			
253		212	217	5.0	5.0	12	<5	<0.5			
254		217	227	10	10	9	<5	<0.5			
255		227	237	10	10	17	<5	<0.5			
256		237	247	10	10	18	160	<0.5			
257		247	257	10	10	15	75	<0.5			
258		257	267	10	10	9	<5	<0.5			
259		267	277	10	10	4	<5	<0.5			
260		277	287	10	10	5	<5	<0.5			
261		287	297	10	10	5	<5	<0.5			
262		297	305.5	8.5	8.5	7	<5	<0.5			
263		305.5	311.5	6.0	6.0	21	10	<0.5			
264		311.5	317.5	6.0	6.0	11	<5	<0.5			
265		317.5	327.5	10.0	10.0	8	<5	<0.5			
266		327.5	334.0	6.5	6.5	9	<5	<0.5			
267		334.0	344.0	10	10	9	<5	<0.5			
268		344.0	352	8	8	8	5	0.9			
269		352	360.6	8.6	8.6	6	<5	<0.5			

PROPERTY KREFT - JACKSON CREEK	Claim No. Ruth 2 YA 93147	Strike 197°	Lat. 0435 N	Hole No. K 86-03
Date 6 August 19 86	Section No. 1130E	Dip -60°	Dep. 1130 E	Total Depth 369'
Logged By A. HUBERT	Plan No.	Level Surface	Elev. 4222'	Page No. 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	Sample No	Width	ASSAY DATA Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	16	ob	overburden										
16	38	5/4	Rubble - mainly fragments of wh gy rusty weathered limestone w occ frags gy porphyritic dykes and pyroclastics hole probably along contact										
38	47	4/3	lt/dk gy grn bornfelsed tuff										
		x	loc bndng 53° rubble 45-47'										
47	57	4	TUFF gy brn fels frags to 3mm rare bnding 40°										
57	58	=	rubble frags bornfels, ls and granite										
58	64.5	4	/3de gy, grn, brn silicified clastic seds remnant bnding 30°-40°										
64.5	90.5	5	wh loc grey rusty marble										
		=	core broken 87.5-91'										

Hole No K-86-03 Page No 2

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
90.5	103.5	5	AA wh ls breccia w rusty fracts occ qtz filled fracts to 4mm										
			Sample 90-95'			95246	5	5					
			95-100'			95247	5	5					
103.5	112	5	wh-gy bnded ls 30°										
112	128.4	5	AA gy, buff ls breccia 10c vuggy vugs to 5mm graphite on slip @ 117'										
			occ qtz veinlets Tr py	py	Tr								
			Sample 112.1-116.1			95247A	4.0						
			116.1-117.9			95247B	1.3						
			117.6-127.0			95247C	9.4						
128.4	193.1	5	gy, wh, ls banding gen 40° to 160'										
			From 189' occ fg silty bnds @ 20°										
			lower ct inreg 50°										
193.1	194.0	3a/5	Partially Skarnified silty ls										
			feathery actinolite to 3cm dissem										
			cp 1/2%, occ bleb po banding 50°-30°										
			Sample 193.1-194			95248	0.9	0.9					
194.0	199.3	5	gy wh ls banding vague 50°										

Hole No M86-03 Page No 3

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
199.3	199.9	3	ad, M/S gy, grn, Ca rich Skarn, patches mag w blebs py Sample 199.3 - 199.9			C95249	0.6	0.6					
199.9	202.5	3S	/S black graphitic Skarn w 10% relic Serpentinized euhedral garnet blasts to 1cm, gen <5mm occ py haloes to 2mm Sample 199.9 - 202.5			C95250	2.6	2.6					
202.5	217	3	a,s,m/S gy blk partially Skarnified cs, patches mag thruout, occ spec py patch cp @ 211', mag & graphitic rich bnd 214' - 215', bleb cp @ 211' Sample. 202.5 - 207			C95251	4.5	4.5					
			207 - 212			52	5	5					
			212 - 217			53	5	5					
217	237'	3	age/S partially Skarnified limestone as above but with no mag and increasing red brn garnet, occ Spec py. Sample: 217 - 227			C95254	10	10					
			227 - 237			95255	10	10					
237	248.5	3	g/des pale grn brn garnet Skarn g xtals to 2cm, gen massive bnding @ 247', 45° Sample 237-247			C95256	10	10					

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
248.5	248.9	3	m/de blk-grn Skarn 50°										
248.9	268	3	g/e,s,* ca red brn Skarn w interstitial ca, occ patches + blebs serp, chl no S/c seen Sample 247-257			C95257	10	10					
			257-267			58	10	10					
268	268.5	3	rusty ichd Shear										
268.5	305.5	3	e/a,c,g, Pale-dk grn mottled Skarn with interstitial ca. From 303.5 to 305.5 patches w dioritic text. S/c at lower ct.										
			Samples 267-277			C95259	10	10					
			277-287			60	10	10					
			287-297			61	10	10					
			297-305.5			62	8.5	8.5					
305.5	317.5	3	a,e,m, gy blk Skarn, mag dissem + in Stnks 10°ca, no S/c seen										
			Sample 305.5-311.5			63	6.0	6.0					
317.5	360.6	3	e,c,*ca Pale-dk grn Skarn w 5-10% interstitial ca. @ 333', 0.5' vuggy sect w patchs py also py patches 351-351.2. Rusty broken sect										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag	Insol
	360.6		(Contd)										
			343 - 343.5, lower ct @ 360.6' sharp @ 55°.										
			Samples 311.5 - 317.5			C95264	6	6					
			317.5 - 327.5			65	10	10					
			327.5 - 334.0			66	6.5	6.5					
			334 - 344			67	10	10					
			344 - 352			68	8	8					
			352 - 360.6			69	8.6	8.6					
360.6	369	76	Fresh hio hbde granodiorite white rounded fels Ktals to 2cm										
	369		Hole Stopped										

EXPLORATION ASSAY DATA

Property KREFT JACKSON CREEK

Date 14AUG/86
Page No.

Sample No.	Hole No.	Footage From	Footage To	Length	Rec.	ppm Cu	ppb Au	ppm Ag	% Bi	% WO3	% Zn
C95272	K86-04	105	110	5	5	36	<5	<0.5			
C95273		262.5	267.5	5	5	36	<5	<0.5			
C95274		274	279	5	5	54	<5	<0.5			

PROPERTY KREFT - JACKSON CREEK	Claim No. RUTH #2 VA 93147	Strike 301°	Lat. 330N	Hole No. K 86-04
Date 14 AUGUST 19 86	Section No.	Dip -70°	Dep. 330E	Total Depth 349'
Logged By A. HUREAU	Plan No.	Level SURFACE	Elev. 4183'	Page No. 1

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION TYPE	%	ASSAY DATA Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	14	OB	overburden										
14	33	5	wh-gy dolo ls occ dk gy pyritic (2%) silty bnds (17.5'-30', 22'-23' w dk grn serp on fracts. Silic @ lower ct 50°										
33	54	4/3	Hornfels, gy, grn, brn well laminated hornfelsed siltstone. Sects sharnified to garnet, diopside, epidote, bnding changes from 30° @ 40' to 65°-75° @ 47', lower ct w less sharnified seds gradational.										
54	95.3	4	Tuff - red brn pale grn pyro clastics, bleached along fracts to pale grn. From 75' clasts to 5 cm. From 90' angular wh Fels grains to 5 mm, From 94.5' rounded porphyritic clasts to 5cm. occ Ca veinlets thruout @ 72' 0.5' Ca vein 30°, dissem & occ stks										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
95.3	110.5	9	dk gy andesite dyke, 3% wk anhedral phenocrysts, chl specs (altd phenocrysts), loc to 3% dissem py rusty @ lower ct 30°, w 1cm ca. Sample 105-110			C95272	5	5					
110.5	122.7	4	Tuff pale grey sub rounded to angular fels clasts & rock frags in grey matrix. Clasts gen 1-3mm occ 5mm. To 111.6 gy grn hornfels, dissem fg py 1/2%										
122.7	123.5	9	gy, brn, fg dyke, chloritized phenocrysts 2% to 2mm.										
123.5	154.5	4	Silicified, pale grey tuff, gen aphanitic occ sects w clasts to 5mm. @ 125' patch garnet w po py dissem & on fracts thruout. Num ca veins w frags altd wallrock core gen broken Rubble 152' to end										
154.9	159	9	dk gy grn dyke as above. Lower ct 30°										

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
159	173.2	4	pale gy SILICIFIED tuff as above.										
		≈	@ 164' 6" rubble preceded by										
			0.2' KAOLINIZED Ca-FELS VEIN										
173.2	185	9	gy grn dyke as above v broken										
			179-185'. dissem py 1/2% throout.										
185	196.5	4	gy TUFF sects w 30% clasts										
			to 5mm in aphanitic matrix.										
			from 195', only relics of clasts										
			remaining.										
		9a	193.5-195 pink granitic dyke										
		9b	195.2-195.4 basic dyke as above cts 48										
		≈	core v broken 195 to end										
196.5	217	9b	gy grn basic dyke as above										
			w 10% chloritized phocrysts										
		=	v broken 204-206' & 217'										
217	225.4	4	gy TUFF: anhedral to euhedral										
			Fels grains grn 3-5mm, 40%										
			in gy Silic matrix. finer grained										
			toward lower ct, chloritized										
			buds to 1cm @ 219'										
		≈	222' - 223' rubble										

Hole No M86-04 Page No 4

FOOTAGE From	FOOTAGE To		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
225.4	267.5	9	gy grn andesite dyke ½% py lower ct irreg 40°.										
		4	238–242 incl hornfels.										
			Sample 262.5–267.5			C95273	5.0						
267.5	294	7b	extremely clay altd granodiorite ca veinlets, rusted on fracts 5% chloritized mafics. Streaks & bnds clay altn. 276–280 clay w remnant qtz frags. @ 276' graphite on fract (moss ?)										
			Sample 274–279'			C95274	5.0						
294	311	7b	moderately altd, chl on fracts, incl rounded fg hornfels.										
311	311.9	9	gy fg andesite dyke cts 55°										
311.9	349	7c	Hbde granite moderately altd mafics loc chloritized occ serpd fracts, clay on occ fracts M fels may be secondary loc sauss patches Fresh from 340'.										
		9	@ 332.2 gy altd fg dyke 70°										
	349		Hole ends										

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: 426-2039 (COMPLETE)

093090

REFERENCE INFO:

CLIENT: MR. ERWIN KREFT
PROJECT: NONE GIVEN

SUBMITTED BY: E KREFT
DATE PRINTED: 7-JUL-86

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - FIRE ASSAY	30	0.001 OPT		
2	Ag	Silver	30	0.01 OPT		
3	Cu	Copper	12	0.001 PCT		
4	Zn	Zinc	7	0.01 PCT		
5	W	Tungsten	12	0.01 PCT		
6	Bi	Bismuth	22	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	30	2 -150	30	ASSAY PREP	30
				OTHER SAMPLE PREP 1	3

REMARKS: BCC WHSE 46-125

REPORT COPIES TO: MR. E.KREFT

INVOICE TO: MR. E.KREFT

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
Nor. Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: 426-2039 | PROJECT: NONE GIVEN | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	Zn PCT	W PCT	Bi PCT
R2 C 95210		<0.002	0.03				
R2 C 95211		0.002	<0.02				
R2 C 95212		0.003	<0.02				
R2 C 95213		0.007	<0.02				
R2 C 95214		0.003	<0.02				
R2 C 95216		0.002	<0.02	0.020		0.07	0.02
R2 C 95217		0.002	<0.02	<0.010		0.02	0.01
R2 C 95218		<0.002	0.07	0.080		0.02	0.04
R2 C 95219		0.003	<0.02				0.02
R2 C 95220		0.002	<0.02			0.02	
R2 C 95221		<0.002	<0.02			0.04	0.01
R2 C 95222		0.020	0.24				0.03
R2 C 95223		<0.002	0.27	0.290	0.03	0.02	0.02
R2 C 95224		<0.002	<0.02		0.03		0.03
R2 C 95225		<0.002	<0.02		0.02		0.03
R2 C 95226		0.003	0.49	0.310		0.02	0.02
R2 C 95227		<0.002	0.26	0.320			
R2 C 95228		<0.002	0.16	0.090		0.06	0.02
R2 C 95229		<0.002	0.02	0.030		0.02	0.02
R2 C 95230		0.008	1.27	1.860	0.38	0.02	0.02
R2 C 95231		<0.002	0.02				0.01
R2 C 95232		0.011	0.18	0.150	0.03	0.02	0.05
R2 C 95233		0.031	0.58	0.370	0.06	0.02	0.07
R2 C 95234		<0.002	0.08				0.02
R2 C 95235		0.003	<0.02				
R2 C 95236		0.002	0.03				0.01
R2 C 95237		<0.002	<0.02	0.010	0.18		0.02
R2 C 95238		0.004	0.03				0.03
R2 C 95239		0.005	<0.02				0.04
R2 C 95240		<0.002	<0.02				0.01

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: 426-2167 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. ERWIN KREFT
PROJECT: NONE GIVEN

SUBMITTED BY: E KREFT
DATE PRINTED: 9-JUL-86

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - FIRE ASSAY	5	0.001 OPT		
2	Ag	Silver	5	0.01 OPT		
3	Bi	Bismuth	5	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	5	2 -150	5	ASSAY PREP	5

REMARKS: BCC WHSE 46-135

REPORT COPIES TO: MR. E. KREFT

INVOICE TO: MR. E. KREFT

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: 426-2167

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Bi PCT
R2 C 95241		<0.002	0.03	0.01
R2 C 95242		0.002	0.03	0.02
R2 C 95243		<0.002	0.02	0.01
R2 C 95244		<0.002	<0.02	0.01
R2 C 95245		<0.002	<0.02	0.01

H86-02

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

093090

REPORT: 126-3391 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. ERWIN KREFT
PROJECT: NONE GIVEN

SUBMITTED BY: D KREFT
DATE PRINTED: 5-SEP-86

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
2	Pb	Lead	27	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
3	Zn	Zinc	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
4	Mo	Molybdenum	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
5	Co	Cobalt	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
6	Ni	Nickel	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
7	Cr	Chromium	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
8	Mn	Manganese	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
9	Cd	Cadmium	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
10	Ag	Silver	27	0.5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
11	Tl	Thallium	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
12	V	Vanadium	27	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
13	As	Arsenic	27	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
14	Sb	Antimony	27	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
15	Se	Selenium	27	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
16	Fe	Iron	27	0.05 PCT	HNO3-HCL HOT EXTR	D.C. Plasma
17	Au	Gold - Fire Assay	27	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER
R ROCK OR BED ROCK	27

SIZE FRACTIONS	NUMBER
2 -150	27

SAMPLE PREPARATIONS	NUMBER
CRUSH,PULVERIZE -150	27
OVERWEIGHT SAMPLE/LB	230

REMARKS: BCC WHSE 46-229

REPORT COPIES TO: MR. E. KREFT

INVOICE TO: MR. E. KREFT

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 126-3391 | PROJECT: NONE GIVEN | PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Tl PPM
R2 C 95246		2	9	24	3	2	2	<1	707	1	0.5	<1
R2 C 95247		1	<5	19	4	3	3	<1	478	<1	<0.5	<1
R2 C 95248		33	174	92	2	9	7	16	6000	<1	<0.5	<1
R2 C 95249		40	10	62	7	12	4	40	9000	3	<0.5	<1
R2 C 95250		55	7	110	29	12	11	61	13000	2	<0.5	<1
R2 C 95251		21	<5	41	3	7	<1	40	12000	1	<0.5	<1
R2 C 95252		5	<5	22	2	5	<1	27	8000	<1	<0.5	<1
R2 C 95253		12	<5	29	3	5	<1	35	7000	1	<0.5	<1
R2 C 95254		4	<5	41	2	5	<1	22	8000	<1	<0.5	<1
R2 C 95255		17	<5	17	4	3	<1	40	3000	1	<0.5	<1
R2 C 95256		18	9	11	5	4	<1	42	2544	<1	<0.5	<1
R2 C 95257		15	<5	32	10	4	<1	40	3363	1	<0.5	<1
R2 C 95258		4	<5	38	5	6	5	56	3879	<1	<0.5	<1
R2 C 95259		4	<5	43	8	6	3	40	3891	<1	<0.5	<1
R2 C 95260		5	<5	33	16	5	3	49	3658	<1	<0.5	<1
R2 C 95261		5	<5	45	37	5	<1	30	3659	<1	<0.5	<1
R2 C 95262		7	<5	55	11	7	<1	32	3143	<1	<0.5	<1
R2 C 95263		21	<5	208	7	12	4	12	4137	2	<0.5	<1
R2 C 95264		11	<5	81	5	7	2	24	2151	1	<0.5	<1
R2 C 95265		8	<5	71	31	11	<1	26	4181	<1	<0.5	<1
R2 C 95266		9	6	67	9	18	2	42	4247	<1	<0.5	<1
R2 C 95267		9	<5	48	8	7	<1	22	3136	1	<0.5	<1
R2 C 95268		8	8	42	7	10	<1	37	2405	<1	0.9	<1
R2 C 95269		6	<5	37	2	6	<1	26	2501	<1	<0.5	<1
R2 C 95272		36	6	130	5	20	25	76	787	1	<0.5	<1
R2 C 95273		36	11	104	4	23	45	148	1077	1	<0.5	<1
R2 C 95274		54	6	28	38	5	<1	37	452	<1	<0.5	<1

KBB-03

KBB-04

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 126-3391 PROJECT: NONE GIVEN PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	V PPM	As PPM	Sb PPM	Se PPM	Fe PCT	Au PPB
R2 C 95246		3	7	7	<5	1.30	5
R2 C 95247		6	16	<5	<5	0.92	<5
R2 C 95248		6	11	12	5	2.18	45
R2 C 95249		48	<5	9	<5	9.95	<5
R2 C 95250		141	<5	7	<5	>10.00	<5
R2 C 95251		25	20	<5	<5	4.91	<5
R2 C 95252		13	<5	<5	<5	3.66	<5
R2 C 95253		56	13	5	<5	4.62	<5
R2 C 95254		132	<5	<5	<5	2.41	<5
R2 C 95255		85	113	<5	10	5.39	<5
R2 C 95256	M 86-03	46	132	<5	<5	6.76	160
R2 C 95257		67	84	<5	<5	6.57	75
R2 C 95258		9	<5	<5	6	1.98	<5
R2 C 95259		4	17	5	7	1.96	<5
R2 C 95260		5	<5	10	6	1.80	<5
R2 C 95261		7	<5	7	<5	2.55	<5
R2 C 95262		13	5	<5	<5	3.29	<5
R2 C 95263		9	19	<5	<5	9.29	10
R2 C 95264		8	14	<5	<5	5.74	<5
R2 C 95265		8	8	<5	<5	3.73	<5
R2 C 95266		11	8	6	<5	3.94	<5
R2 C 95267		6	13	10	<5	3.32	<5
R2 C 95268		8	21	<5	<5	3.59	5
R2 C 95269		9	10	9	<5	2.81	<5
R2 C 95272	M 86-04	87	19	7	6	5.04	<5
R2 C 95273		91	10	<5	<5	5.52	<5
R2 C 95274		5	<5	<5	<5	1.37	<5

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

093090

REPORT: 126-3515 (COMPLETE)

REFERENCE INFO: WHSE 46-234

CLIENT: MR. ERWIN KREFT
PROJECT: NONE GIVEN

SUBMITTED BY: E KREFT
DATE PRINTED: 28-AUG-86

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
2	Pb	Lead	3	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
3	Zn	Zinc	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
4	Mo	Molybdenum	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
5	Co	Cobalt	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
6	Ni	Nickel	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
7	Cr	Chromium	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
8	Mn	Manganese	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
9	Cd	Cadmium	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
10	Ag	Silver	3	0.5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
11	Bi	Bismuth	3	2 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
12	Fe	Iron	3	0.05 PCT	HNO3-HCL HOT EXTR	D.C. Plasma
13	V	Vanadium	3	1 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
14	As	Arsenic	3	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
15	Te	Tellurium	3	10 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
16	U	Uranium	3	10 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
17	W	Tungsten	3	10 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
18	Sb	Antimony	3	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
19	Se	Selenium	3	5 PPM	HNO3-HCL HOT EXTR	D.C. Plasma
20	Sn	Tin	3	10 PPM	HNO3-HCL HOT EXTR	D.C. Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	3	2 -150	3	AS RECEIVED, NO SP	3

REPORT COPIES TO: MR. E. KREFT

INVOICE TO: MR. E. KREFT

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 126-3515

PROJECT: NONE GIVEN PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Bi PPM
R2 95247-A	M 86-03	5	26	21	12	<1	3	87	763	<1	0.5	3
R2 95247-B		10	34	16	50	<1	7	81	441	1	0.9	6
R2 95247-C		11	17	24	21	<1	<1	25	1402	<1	<0.5	<2

copy x (2)

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

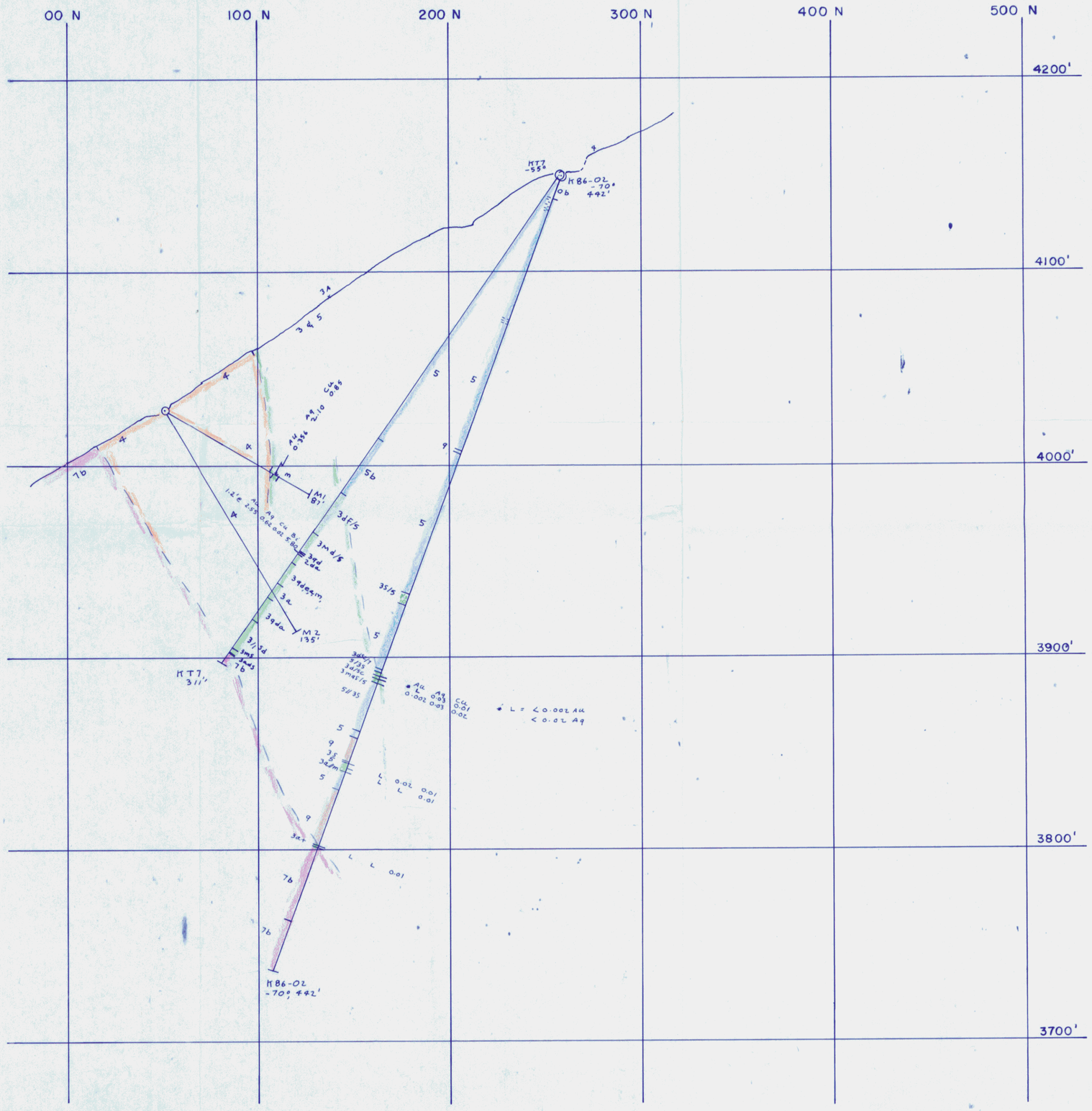
BONDAR-CLEGG

Geochemical Lab Report

REPORT: 126-3515 | PROJECT: NONE GIVEN | PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM
R2 95247-A	K86-03	1.87	12	549	<10	<10	<10	10	7	<10
R2 95247-B		1.44	17	254	<10	<10	<10	8	<5	<10
R2 95247-C		3.58	11	100	<10	<10	<10	7	9	<10

Copys x 2



GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

735 [Q] ALLUVIUM, GLACIAL DRIFT

746 [10] MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 [9a] ACIDIC GRANITIC, APLITE, FELSITE, 9a - may predate skarn

734½ [9b] BASIC ANDESITE, DIORITE, POST-ORE, 9bx-porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

752 [8] DIORITE — 8a ALTERED (ENDOSKARN); 8l MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 [7] 7g GRANITE, 7b GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ [6] LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740½ [5] LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736½ [4] QUARTZITE, GREYWACKE, SILTSTONE, TUFF, ARGILLITE, ARKOSE — 4q QUARTZITE; 4g GREYWACKE; 4k ARKOSE

738 [3] SKARN BARREN, WITH ……

745 [2] SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH ……

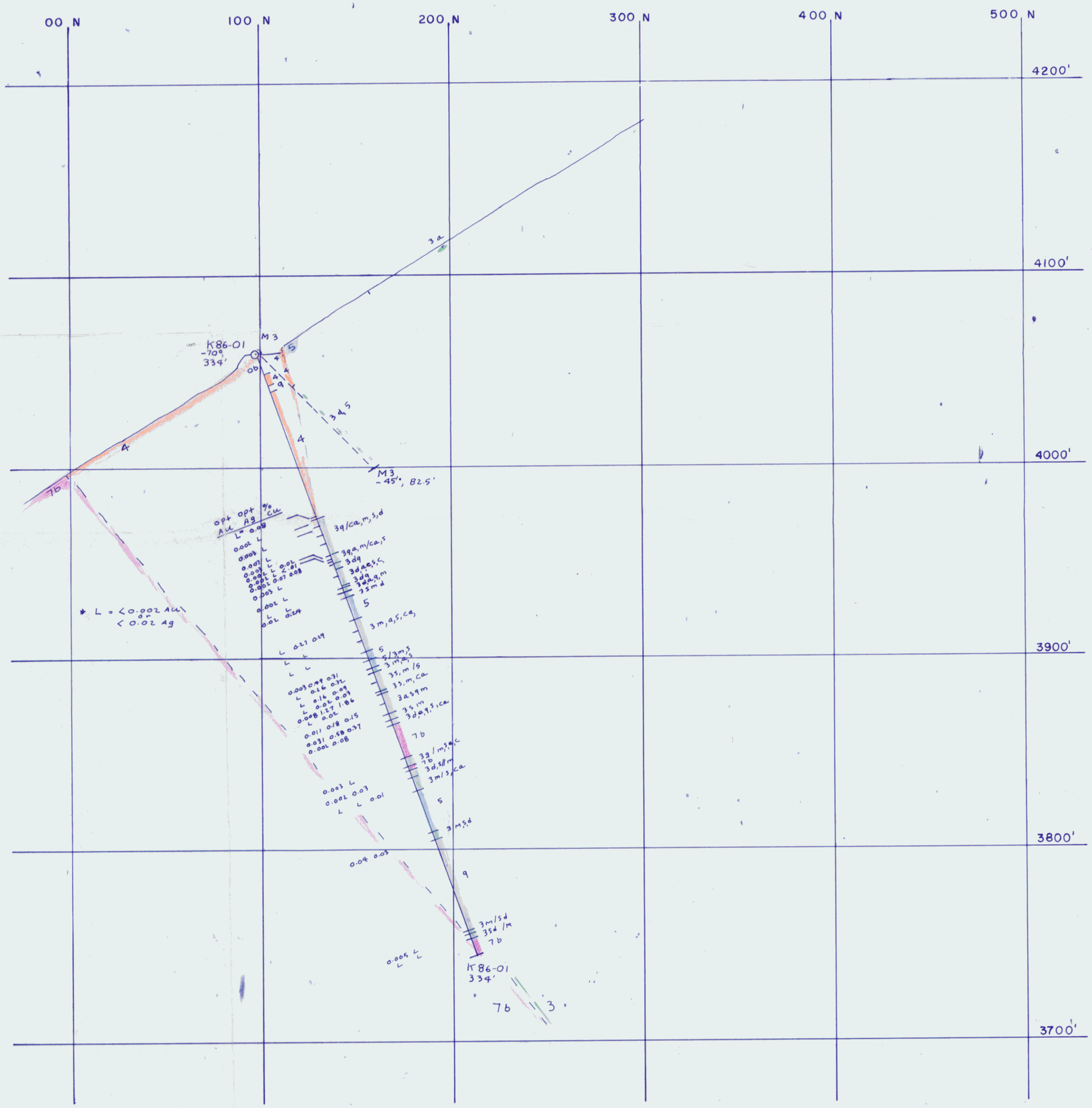
745 [1] SKARN MAGNETITE, BORNITE, CPY, VALERIITE, COPPER OXIDES, WITH ……

a-ACTINOLITE
c-CHLORITE
d-DIOPSIDE
e-EPIDOTE
f-FELDSPAR
g-GARNET
s-SERPENTINE
t-TREMOLITE
w-WOLLASTONITE
z-ZOISITE

093090

DWG 140

JACKSON CREEK
105 D 11
SECT 900 N
1"=40' A.H. AUG 86



GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

735 [Q] ALLUVIUM, GLACIAL DRIFT

746 [10] MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 [9a] ACIDIC GRANITIC, APLITE, FELSITE, — 9a - may predate skarn

734½ [9b] BASIC ANDESITE, DIORITE, POST-ORE, — 9bx-porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

752 [8] DIORITE — 8a ALTERED (ENDOSKARN); 8l MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 [7] 7g GRANITE, 7b GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ [6] LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740½ [5] LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736½ [4] QUARTZITE, GREYWACKE, SILTSTONE, TUFF, ARGILLITE, ARKOSE — 4q QUARTZITE; 4g GREYWACKE; 4k ARKOSE

738 [3] SKARN BARREN, WITH ····· a-ACTINOLITE, c-CHLORITE, d-DIOPSIDE, e-EPIDOTE, f-FELDSPAR, g-GARNET, s-SERPENTINE, t-TREMOLITE, w-WOLLASTONITE, z-ZOISITE

745 [2] SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH ·····

745 [1] SKARN MAGNETITE, BORNITE, CPY, VALERIITE, COPPER OXIDES, WITH ·····

093090

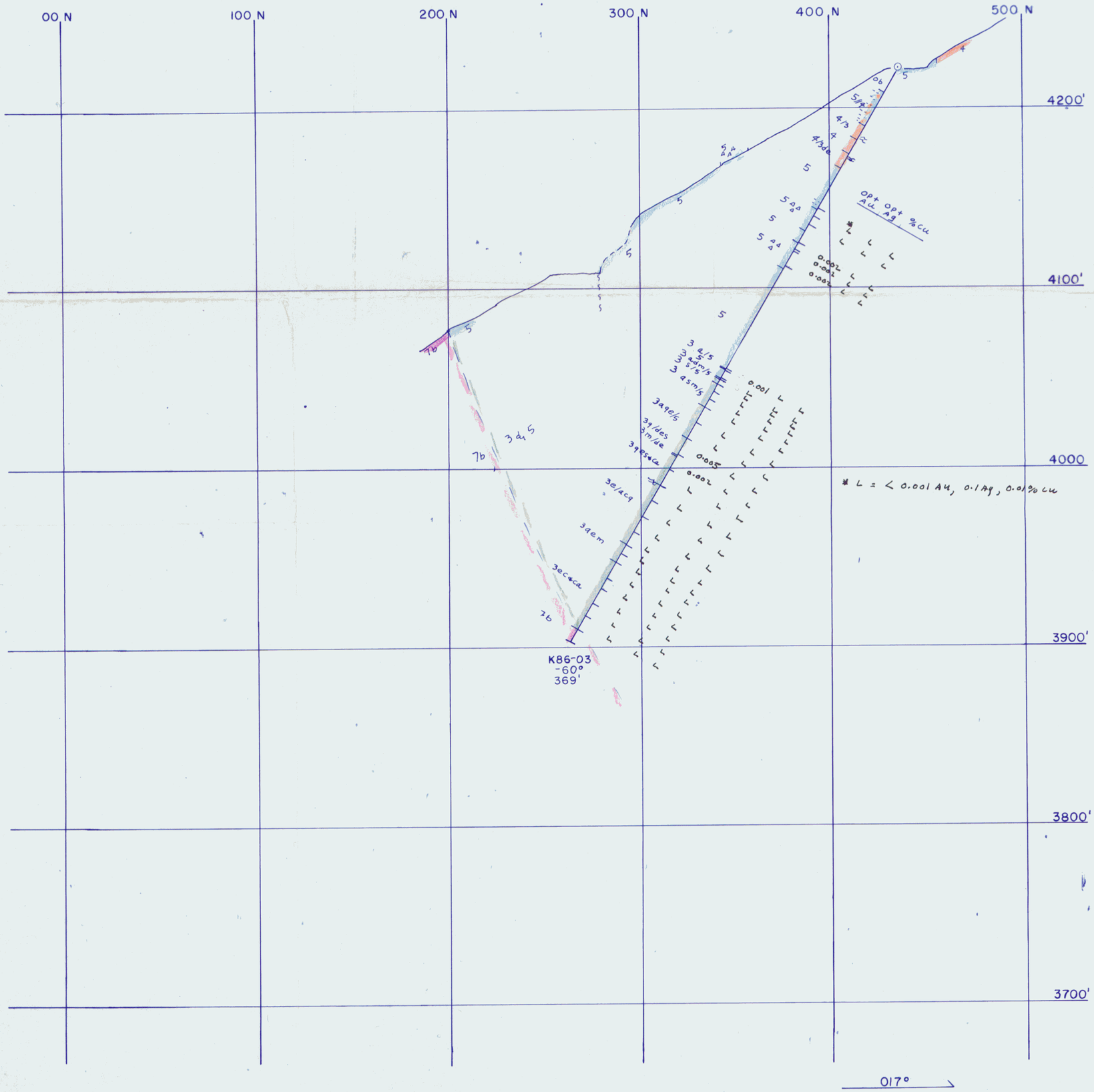
DWG 141

JACKSON CREEK

105 D 11

SECT 1000 N

1"=40' A.H AUG 86



GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

738 Q — ALLUVIUM, GLACIAL DRIFT

746 Qc — MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

735 Yd — ACIDIC GRANITIC, APLITE, FELSITE,

734½ Yb — BASIC ANDESITE, DIORITE, POST-ORE, Ybs-porphyry — Ya- may predate skarn

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

752 8 — DIORITE — 8a ALTERED (ENDOSKARN) 8l MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 7 — 7g GRANITE, 7b GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ 6 — LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740½ 5 — LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736½ 4 — QUARTZITE, GREYWACKE, SILTSTONE, TUFF, ARGILLITE, ARKOSE — 4q QUARTZITE, 4g GREYWACKE, 4k ARKOSE

738 3 — SKARN BARREN, WITH ..... a-ACTINOLITE, c-CHLORITE, d-DIOPSIDE, e-EPIDOTE, f-FELDSPAR, g-GARNET, s-SERPENTINE, t-TREMOLITE, w-WOLLASTONITE, z-ZOISITE

745 2 — SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH .....

745 1 — SKARN MAGNETITE, BORNITE, CPY, VALERIITE, COPPER OXIDES, WITH .....

093090

DWG 143

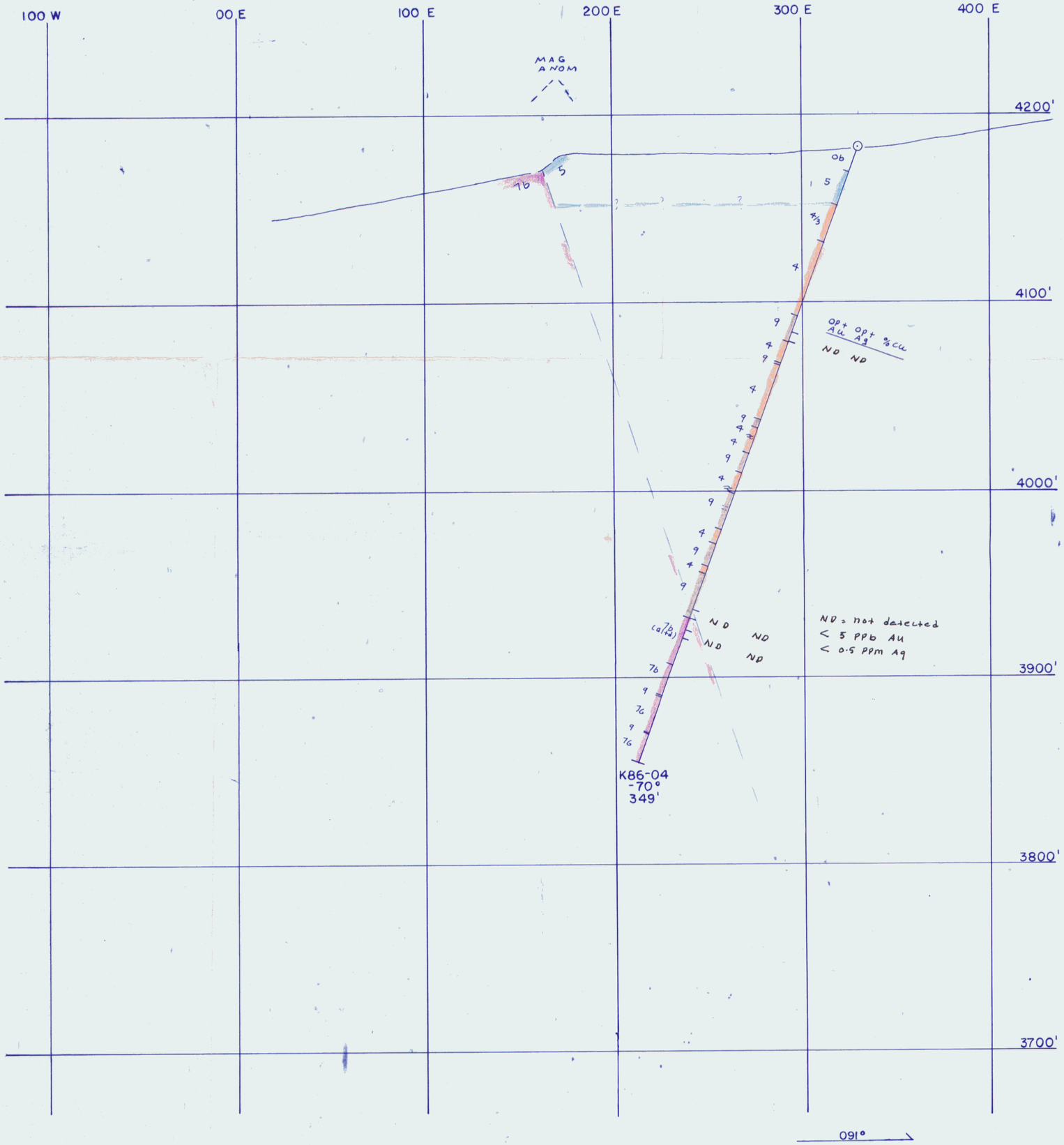
JACKSON CREEK

105 D 11

DDH K86-03

(OFF SECTION)

1" = 40' A.H AUG 86



GEOLOGICAL LEGEND

CENOZOIC

QUATERNARY

PLEISTOCENE & RECENT

735 [Q] ALLUVIUM, GLACIAL DRIFT

746 [10] MILES CANYON BASALT

POST CRETACEOUS

INTRUSIVE DYKES OR SILLS

755 [9a] ACIDIC GRANITIC, APLITE, FELSITE, 9a - may predate skarn

734½ [9b] BASIC ANDESITE, DIORITE, POST-ORE, 9bx-porphyry

MESOZOIC

CRETACEOUS

COAST INTRUSIVES

752 [8] DIORITE — 8a ALTERED (ENDOSKARN); 8i MINERALIZED ENDOSKARN, MALACHITE, CHALCOPYRITE, BORNITE

752 [7] 7g GRANITE, 7b GRANODIORITE, 7m QUARTZ-MONZONITE

LOWER JURASSIC & LATER

746½ [6] LABERGE GROUP

UPPER TRIASSIC

LEWES RIVER GROUP (METAMORPHOSED)

740½ [5] LIMESTONE AND/OR DOLOMITE, 5b-CARBONACEOUS LIMESTONE

736½ [4] QUARTZITE, GREYWACKE, SILTSTONE, TUFF, ARGILLITE, ARKOSE — 4q QUARTZITE; 4g GREYWACKE; 4k ARKOSE

738 [3] SKARN BARREN, WITH ..... a-ACTINOLITE, c-CHLORITE, d-DIOPSIDE, e-EPIDOTE, f-FELDSPAR, g-GARNET, s-SERPENTINE, t-TREMOLITE, w-WOLLASTONITE, z-ZOISITE

745 [2] SKARN MINERALIZED, BORNITE, CHALCOPYRITE, COPPER OXIDES, WITH .....

745 [1] SKARN MAGNETITE, BORNITE, CPY, VALERIITE, COPPER OXIDES, WITH .....

093090

DWG 142

JACKSON CREEK

105 D 11

DDH K86-04

(OFF SECTION)

1" = 40' A.H. AUG 86