EL CONDOR RESOURCES LTD.

GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT
1990 EXPLORATION PROGRAM
KEMESS PROPERTY

CLAIM	RECORD NO.	RECORD DATE
NEK 1	11804	May 3, 1990
NEK 2	11805	May 3, 1990
NEK 3	11806	May 3, 1990
NEW KEMESS 3	11807	May 3, 1990
NEK 4	12424	Aug 1, 1990

Omineca Mining Division

British Columbia

N.T.S. 94 E / 2

Latitude 57° 04' North

Longitude 126° 44' West

By

D.J. Copeland, P.Eng.

Copeland Rebagliati & Associates Ltd.

June 30, 1991

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Summary and Conclusions

The Kemess property is located in the southern part of the Toodoggone gold-silver Mining district in central British Columbia approximately 650 kilometres northwest of Prince George.

The Cheni Mine extension of the Omineca Mining Road passes about 12 kilometres west of the property. The property itself can be reached from the Omineca Mining Road by a 16 kilometre four wheel drive access road.

The Sturdee Airstrip is approximately 40 kilometres northwest by road from the property and 265 kilometres north of Smithers. The strip is serviced by scheduled fixed-wing aircraft from Smithers.

The northern Kemess project area is comprised of five mineral claims, totalling 71 units or 1,775 hectares. It covers an alpine and sub-alpine upland east of Duncan Lake, in the Swannell Ranges of the Omineca Mountains. Elevations range from 1,400 metres to 1,932 metres above mean sea level.

This area was first staked for Kennco Explorations, (Western) Ltd. as the Kemess porphyry copper property in 1967. It was explored by Kennco and later Getty Mines during the period 1968 to 1976, during which time almost 2,300 metres of diamond drilling were completed. El Condor Resources Ltd. took the property under option in 1986. From 1986 to 1989 El Condor completed geochemical, geophysical and geological surveys as well as 732 metres of diamond drilling.

The northern portion of the Kemess property hosts several large alteration zones hosting porphyry-type gold-copper mineralization. Much of this prospective area has only been lightly explored and known areas of gold-copper mineralization are open for extension.

Introduction

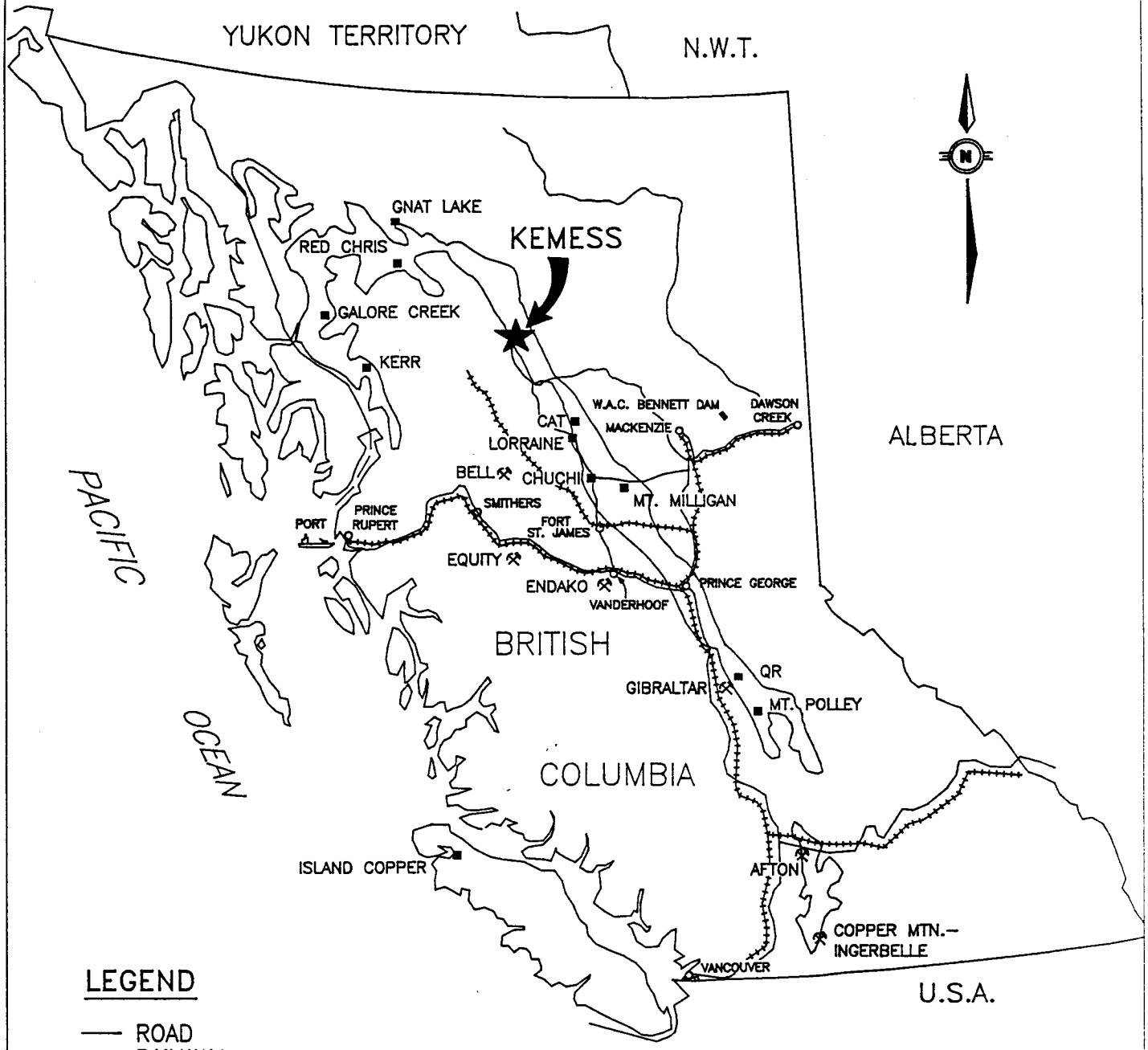
This report describes the exploration program operated by El Condor Resources Ltd. on the northern portion of the large Kemess Creek claim block.

Location and Access

The Kemess property is located in the southern part of the Toodoggone gold-silver Mining district in central British Columbia, 650 kilometres north of Prince George (Figure 1). The centre of the property is at Latitude 57° 04' North, Longitude 126° 44' West. All of the property lies on NTS sheet 94 E/2.

The Omineca Mining Road passes about 12 kilometres west of the property. This road is easily passable for vehicles ranging up to semi-trailer trucks.

In 1989, El Condor Resources constructed a 16 kilometre access road from the Cheni Mine extension of the Omineca Mining Road to the Central Cirque at the north end of the Kemess property. In 1990 this road was up-graded, with ditching and the installation of culverts. It is readily usable by four wheel drive pick up trucks and off-road vehicles.



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KEMESS PROPERTY

LOCATION MAP

SCALE : AS SHOWN	DRAWN BY : ProComp GeoDraft Ltd.	FILE : KEMLOCA
DATE : MAY 91	REVISED :	FIGURE : 1

The Sturdee Airstrip is approximately 40 kilometres by road from the property. The strip is serviced by scheduled fixed-wing aircraft from Smithers thrice weekly. Smithers is about 265 air kilometres south of the airstrip.

Vehicular access within the northern portion of the property was improved in 1990 with the construction of approximately 9 kilometres of drill access roads.

Property Definition

Exploration was conducted on five of the northern most mineral claims, which comprise 71 units or 1,775 hectares (Figure 2).

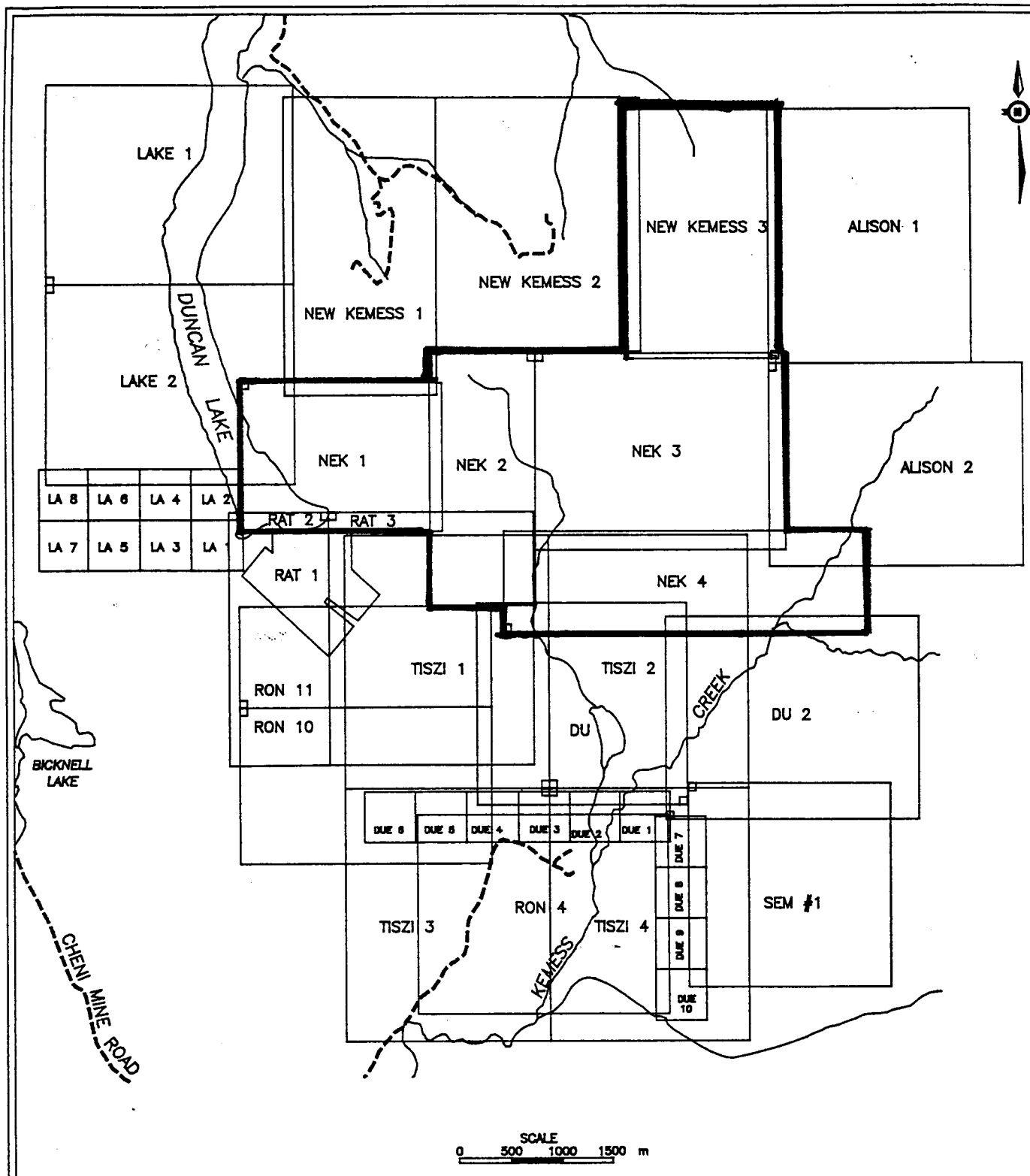
Table 1.1: North Kemess - Claim Status

Claim Name	Units	Record Number	Record Date	Expiry* Date	Owner of Record
NEK 1	12	11804	3 May 90	1992	El Condor
NEK 2	10	11805	3 May 90	1992	El Condor
NEK 3	20	11806	3 May 90	1992	El Condor
New Kemess 3	15	11807	3 May 90	1992	El Condor
NEK 4	14	12424	1 Aug 90	1992	El Condor
Total	71				

* Pending acceptance of this report

Physiography

The property covers an alpine and sub-alpine upland east of Duncan Lake, in the Swannell Ranges of the Omineca Mountains. Elevations range from 1,400 metres to 1,932 metres above mean sea level.



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KEMESS PROPERTY

CLAIM MAP

SCALE : AS SHOWN	DRAWN BY : ProComp GeoDraft Ltd.	FILE : claims
DATE : APR. 91	REVISED : MAY 17/91	PROJECT :

The climate is moderate with temperatures ranging from -40 deg to +25° celsius. Precipitation is usually moderate, and the snowpack rarely exceeds 1.5 metres. The field season extend from June until late October. Drilling is feasible year round.

The topography ranges from moderate to very steep. Bedrock exposure is limited to ridge tops and the steep headwalls of cirques. Most of the area in which exploration has been done to date is above or near tree line and is covered by a thin veneer of glacial till.

History

District History

Placer gold was discovered at the mouth of McConnell Creek, 30 kilometres northwest of Johansen Lake and 30 kilometres southeast of what is now the Kemess Property, in 1899. This led to a brief gold rush in 1907.

In the 1930's Cominco prospected the Thutade and Duncan Lakes area, west of the Kemess property, for the source of gold found in a local creek. Cominco failed to discover the source of the gold, but did stake claims on a lead-zinc skarn occurrence 3 kilometres to the west of the New Kemess claims.

In 1968, Kennco Explorations (Western) Limited discovered the Chapelle epithermal gold-silver vein deposit, which was to become the Baker Mine, while searching for porphyry copper-molybdenum deposits in the Toodoggone District. Over the next fifteen years several major mining

companies explored the region for precious and base metal occurrences. Their work resulted in the discovery of several significant epithermal gold and silver prospects and the Kemess (Conquistador) porphyry copper prospect.

Dupont of Canada operated the Baker Mine from 1980 to 1984, where initial reserves were about 91,000 tonnes grading 28 g Au/tonne and 560 g Ag/tonne (100,000 tons grading 0.82 oz. Au/ton and 16 oz. Ag/ton). Cheni Mines is now producing gold and silver at the Lawyers deposit. At the start of production in 1989, Cheni's reserves were reported to be 1.4 million tons averaging 0.196 oz. Au/ton and 7.1 oz. Ag/ton (1.28 million tonnes averaging 6.72g Au/tonne and 243g Ag/tonne). In 1989, Sable Mining Corp. re-activated the Baker Mill and began extracting open pit reserves from the Shasta gold-silver epithermal stockwork-vein deposit.

Property History

In 1966, Kennco Explorations (Western) Limited carried out a regional silt geochemical survey in the vicinity of the New Kemess claims. The following year Kennco staked 100 two post mineral claims to cover an intense gossan with high base metal and silver silt geochemistry.

During the years 1968 to 1971, Kennco did exploration work which included:

- soil, silt and rock geochemical sampling
- geological mapping at 1:9,600 scale
- X-Ray diamond drilling totalling 232 metres in 8 holes

During 1975-76, Getty Mines Limited optioned the property from Kennco and did work which included:

- claim restaking
- photogrammetric topographic mapping at 1:4,800 scale
- relocation of the mineral claims
- fill in soil geochemical sampling
- geological mapping
- drilling totalling 2,065 metres in 13 holes

El Condor Resources Ltd. optioned the property from Kennco in 1986, and in the period 1986 - 1989 completed the following work:

- 1986
  - 14.1 km of magnetic survey
  - 351 soil samples
  - relogging and resampling of the 1975 and 1976 drill core
  - 33 rock chip samples

- 1987
  - 345 rock chip samples

- 1988
  - 50.5 km of EM-34 resistivity surveying on 3 grids
  - 1.8 km of IP surveying
  - 1,676 soil samples on 3 grids
  - 37 rock chip samples
  - 90 metres of hand trenching

- 1989
  - 828 soil samples on two grids
  - 385 metres of backhoe trenching
  - 246 lithogeochemical samples from trenches and reconnaissance outcrop sampling
  - 26.35 line kilometres of VLF EM and magnetic surveying
  - 11.8 line kilometres of IP surveying
  - 732 metres of diamond drilling

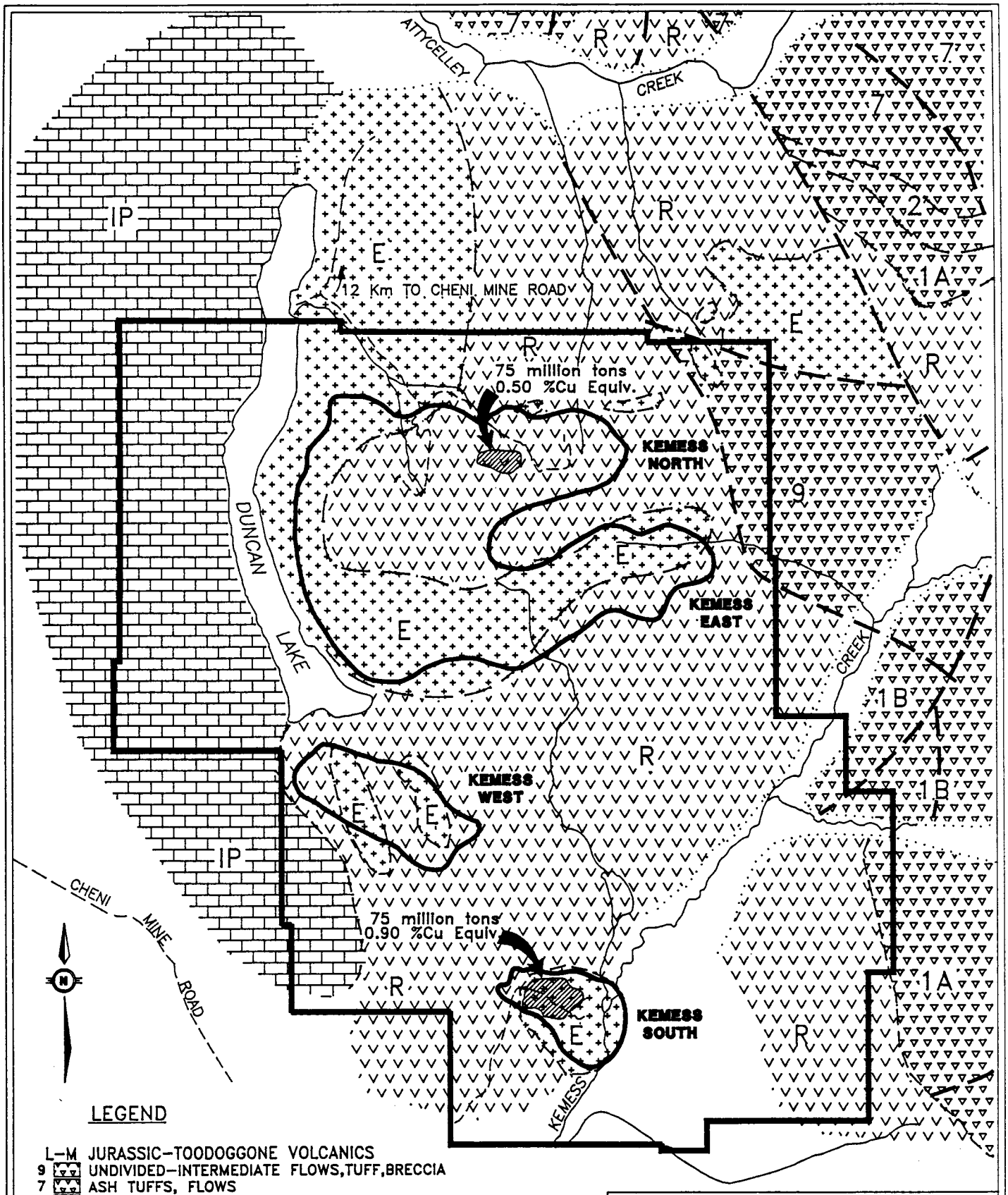
Geologic Setting

Regional Geology

(refer to figure 3)

Lithologic Succession

The Toodoggone District lies within the eastern margin of the Intermontane Belt. It is underlain by a northwesterly trending belt of Paleozoic to Tertiary sediments, volcanics and intrusives covering an area of 90 by 25 km. The supracrustal rocks are briefly described in Table 1.2, below.



LEGEND

- L–M JURASSIC–TOODOGGONE VOLCANICS
- 9 UNDIVIDED–INTERMEDIATE FLOWS,TUFF,BRECCIA
- 7 ASH TUFFS, FLOWS
- 2 VOLCANICLASTICS
- 1 ASH FLOWS
- 1A TUFFS, AGGLOMERATE
- 1B QUARTZOSE PLAGIOCLASE PROPHYRY

TRIASSIC–TAKLA GROUP

- R ANDESITE TO BASALT FLOWS,BRECCIAS,TUFFS

PERMIAN–ASITKA GROUP

- IP LIMESTONE,ARGILLITE,SHALE,CHERT

INTRUSIONS

- L–M JURASSIC
- E QUARTZ MONZONITE, GRANODIORITE
- SULPHIDE ALTERATION ZONES

SCALE 0 500 1000 1500 m

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KEMESS PROPERTY

REGIONAL GEOLOGY

SCALE: 1 : 60,000	DRAWN BY: ProComp GeoDraft Ltd.	FILE: REGGEO
DATE: MAY 91	REVISED:	FIGURE: 3

Table 1.2: Stratigraphy

Quaternary

Pleistocene and Recent

unconsolidated till, fluvium, alluvium, colluvium

<< UNCONFORMITY >>

Cretaceous

Upper Cretaceous - Sustut Group

conglomerate, sandstone, shale, mudstone

<< UNCONFORMITY >>

Jurassic

Lower to Middle Jurassic

Hazelton Group		Toodoggone Volcanics
andesite porphyry flows, tuffs, breccia, lahars, conglomerate, greywacke, siltstone	F A U L T	airfall ash tuff, ash flows, coarse pyroclastics, lava flows, epiclastic sedimentary rocks

<< UNCONFORMITY >> << STRUCTURALLY CONFORMABLE >>

Triassic

Upper Triassic Lower Jurassic - Takla Group

augite porphyry basalt flows and breccias, fine grained andesite to basalt flows, minor siltstone, tuffaceous sediments, chert and limestone

Paleozoic

Permian - Asitka Group

limestone, lesser argillite, black shale and chert

Proterozoic - Ingenika Group

sandstone, siltstone, shale, minor conglomerate and limestone

Lower to Middle Jurassic Omineca Intrusions have intruded the older strata in the central and eastern parts of the region, and form the eastern margin of the Toodoggone District. Within the Toodoggone district, syenomonzonitic and quartz feldspar porphyritic dykes may be feeders to the Toodoggone Volcanics. The intrusive rocks are briefly described in Table 1.3, below.

Table 1.3: Intrusive Rocks

Jurassic	
	Lower Jurassic (Dikes, sills and small plugs)
	basalt
	augite hornblende porphyry - basaltic stock, domal intrusion (or Takla inlier)
	biotite hornblende diorite/gabbro
	pyroxene plagioclase porphyry
	Lower to Middle Jurassic (Dikes and stocks)
	quartz Monzonite, granodiorite; minor syenite or quartzose syenite along contacts
	granodiorite, quartz diorite
	feldspar porphyry, hornblende feldspar porphyry, rare quartz feldspar porphyry

Regional Structural Setting

In the McConnell Creek map area, immediately south of the project area, Monger (1977) described the regional structure thus:

> "Faulting is the dominant deformational style. The faults may be normal, reverse or thrust and are probably of several ages. The rocks are tilted or folded into broad folds..."

The southwestern part of the Toodoggone district has been described as one of stacked thrust plates in which Toodoggone rocks dip steeply (Copeland and Blanchflower, 1990). Conversely, further north, gently dipping beds in tilted fault blocks or broad open folds with horizontal axes are the norm (Copeland and Blanchflower, 1990).

Although the present project area is in the southwestern part of the Toodoggone district, Monger's description from McConnell Creek, or that advanced for the more northerly part of the Toodoggone district, seem more apt. Stacked thrust plates are not evident within the project area, and the rare measurable dips are gentle. There is, however, considerable evidence for block faulting.

Property Geology

The northern portion of the Kemess property is underlain by Takla volcanic rocks intruded by quartz-bearing monzonite stocks and dikes ranging in composition from granite to syenite. All rock types have been subjected to strong brittle fracturing. Hydrothermal alteration is widespread and locally intense.

Lithologic Units

Table 2.1 lists the lithologic units identified during the course of mapping and sampling. The sequence of units (1 - 10) does not imply age relationships except in the general sense that units 1 - 5 are older than units 6 - 10.

The lithologic units used here are modified and expanded from those of Copeland and Blanchflower (1990). Their distribution is illustrated on Figure 4.

Table 2.1: Lithologic Units

(lower to middle Jurassic)		
10		Trachyte
9		Granite Quartz Porphyry
8		Syenite
7		Biotite Granite
6	a	Quartz-Bearing Monzonite
	b	Granodiorite
	c	Alaskite
	d	Monzonite
Takla Group (upper Triassic)		
5		Basalt Dike
4	a	Feldspar Crystal (Lithic Lapilli) Tuff
	b	Ash Tuff
	c	Quartz Feldspar (Lithic Lapilli) Tuff
	d	Tuffaceous Argillite, Muddy Tuff
3	a	Bladed Feldspar Porphyry Tuff Breccia
	b	Tuff Breccia
2		Bladed Feldspar Porphyry Flows, Agglomerate
1	a	Basalt Flows
	b	Intermediate Flows
	c	Flow Breccia

Structural Geology

Brittle fracturing is the dominant deformational style on the northern claims. Myriad small scale fractures of many generations are visible in the field. Earlier ones are healed by quartz, carbonates, zeolites or gypsum while some later ones are still open.

Alteration Zoning

On the original Kemess prospect, in the areas herein referred to as East Cirque, East Ridge and Central Cirque, the characteristic alteration assemblage is dominated by sericite, with lesser quartz and chlorite. This intense alteration has produced a striking color anomaly in that area.

Sulphide Mineral Zoning

There is little obvious sulphide mineral zoning over the breadth of the property. The typical sulphide assemblage is pyrite, with variable but lesser chalcopyrite. Other sulphides noted sporadically include molybdenite and bornite.

1990 Surface Sampling and Mapping

The 1990 program involved heavy mineral lithogeochemical sampling(figure 5) and 1:10,000 mapping(figure 4). Each of the 102 samples collected was comprised of chips taken within a radius of about 10 metres from the nominal sample point. A typical sample would consist of 10 to 15 chips and weigh about 5 kg.

Results of Surface Sampling

Copper (Figure 6)

General Distribution of Copper in Heavy Minerals

There is a general, arcuate trend of higher copper values in heavy minerals, above 300 ppm, that extends from Far East Ridge westward across East Cirque and East Ridge to West Cirque, where it wraps southward towards the anomalous zone at the west end of the property.

Recommendations

a) The 1990 program of lithogeochemical sampling proved effective as a quick first pass that combined geochemistry with reconnaissance mapping and prospecting. This program should be extended over the remaining unexplored portions of the large claim block.

b) Conduct aeromagnetic and radiometric surveys over the entire claim block to help define major lithogeological units, intrusions and zones of potassic alteration.

c) Run a reconnaissance IP survey over the entire property to identify buried sulphide-rich alteration zones and to better define the boundaries of known zones.

Statement of Costs

Personnel Expenses:	
Project Geologist 12 days @ $300.00 per day	$ 3600.00
Geologist 12 days @ $150.00 per day	$ 1800.00
Fixed wing aircraft support - Central Mtn. Air	500.00
Heavy Mineral Analytical Expenses - Min-En Labs	
102 samples * $25.00 per sample	2550.00
Report Preparation	600.00
TOTAL COST	**$9,050.00**

Statement of Qualifications

I, David J. Copeland, of the City of Vancouver, Province of British Columbia, DO HEREBY CERTIFY THAT:

1) I am a Consulting Geological Engineer with a business office at Suite 700 - 1177 West Hastings Street, Vancouver, British Columbia; and Secretary of C.E.C. Engineering Ltd.

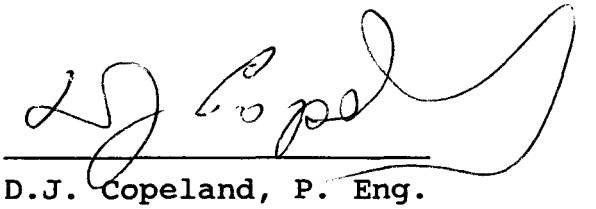
2) I am a graduate in Economic Geology with a Bachelor of Science from the University of British Columbia in 1970.

3) I am a registered member, in good standing, of the Association of Professional Engineers of British Columbia.

4) Since graduation I have been engaged in mineral exploration and mine development in Canada, United States of America, South America and Australasia.

5) I directed the 1990 exploration program on the subject property, attended to the site, and authored this report which documents the results of the program.

6) I am a director and officer of **El Condor Resources Ltd.**, and I own shares in El Condor Resources Ltd.



D.J. Copeland, P. Eng.

Dated at Vancouver, British Columbia, this 17 May, 1991

Partial Bibliography

Blanchflower, J.D.
1986: Geological, Geochemical and Geophysical Report on the Kemess Property, Omineca Mining Division, British Columbia; private report prepared for El Condor Resources Ltd.

Cann, R.M.
1988: Summary and Review of 1987 and 1988 Exploration Results, Kemess Property, omineca Mining Division, British Columbia; private report prepared for El Condor Resources Ltd.

Copeland, D.J. and Blanchflower, J.D.
1990: Summary Report on the 1989 Exploration Program, Kemess Property, Omineca Mining Division, B.C.; corporate report by C.E.C. Engineering Ltd. for El Condor Resources Ltd.

Copeland, D.J. and Rebagliati, C.M. and Ronning, P.R.
1991: Summary Report on the 1990 Exploration Program, Kemess Property(Northern Claims); corporate report by C.E.C. Engineering Ltd. for El Condor Resources Ltd.

Gower, S.C.
1988: Geological and Geochemical Report on the Kemess Property, Omineca Mining Division, British Columbia; private report prepared for El Condor Resources Ltd.

Harris, J.F.
1991: A petrographic Study of Drill Core Samples From the North Kemess Property, B.C.; unpublished report for El Condor Resources Ltd.

APPENDIX A

Analytical Methods

Procedures followed by Min-En Labs for sample analysis

PREPARATION PROCEDURE FOR HEAVY MINERAL SAMPLES

Specifications:

- Crush rock samples 2 - 3 kg.
- Pulverize approx. 500 g.
- 2.92 S.G. separation of 500 g pulp
- Segregate magnetic fraction
- Magnetic Fraction: Au geochem by F.A. preconcentration with an AA finish (as sample volume permits)
- Non-Magnetic Heavy Fraction: Au geochem by F.A. preconcentration with AA finish and 30 element geochemical analyses by ICP

GOLD ASSAY PROCEDURE

Samples are dried at 95° Celsius and when dry, are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to minus 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300-400 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized on a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver inquart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation, the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within three standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.

COPPER ASSAY PROCEDURE

Samples are dried at 95° Celsius and when dry, are crushed on a jaw crusher. The minus 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to -15 mesh. The whole sample is then riffled on a Jones Riffle down to a statistically representative 500 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized in a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

A 2.000 gram sub-sample is weighed from the pulp bag for analysis. Each batch of 70 assays has a natural standard and a reagent blank included. The sub-samples are digested using a HNO3 - KCLO4 mixture and when reaction subsides, HCL is added to the mixture before it is placed on a hotplate to digest. After digestion is complete, the assays are cooled, diluted to volume and mixed.

The assays are analyzed on atomic absorption spectrometers using the appropriate standard sets. The natural standard digested along with this set must be within two standard deviations of its known or the whole set is re-assayed. If any of the assays are >1%, they are re-assayed at a lower weight.

PROCEDURE FOR TRACE ELEMENT ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe,
K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th,
U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95° Celsius, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for two hours with an aqua regia mixture. After cooling, samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

APPENDIX B

Analytical Results - Surface Lithogeochemistry

COMP: CEC ENGRG. | MIN-EN LABS -- ICP REPORT | FILE NO: 0V-1203-HJ1+2

PROJ: NORTH KEMESS | 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 | DATE: NOV-05-90

ATTN: M.REBAGLIATI | (604)980-5814 OR (604)988-4524 | * H.M. NON-MAG * | (ACT:F31) |

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM
18180B	6.5	19590	1	3	54	.1	7	23020	.1	23	3772	34950
18181B	5.0	1530	1	1	11	.1	9	21720	.1	10	5084	19600
18183B	4.6	4570	713	13	18	.1	1	8780	.1	171	1594	292630
18184B	.1	560	1	9	13	.1	1	180	.1	21	21	204580
18185B	3.4	6770	1	5	68	.5	4	17430	.1	374	526	121710
18186B	2.3	13180	1	3	15	.2	3	12270	.1	47	155	41320
18187B	2.4	13680	1	4	29	.1	4	13020	.1	69	454	43600
18188B	2.1	21150	1	6	26	.3	5	19310	.1	103	58	53750
18189B	.3	4140	1	6	107	.1	4	3440	.1	39	26	126370
18220B	2.4	12280	6	2	73	.3	5	23630	.4	16	27	29760
18221B	2.4	11430	1	3	92	.3	3	19680	.1	31	311	39530
18222B	1.1	7890	15	1	199	.3	1	16920	.1	9	30	16530
18230B	2.1	11790	1	1	22	.1	6	9270	.1	11	111	20420
18234B	1.5	7200	41	1	9	.3	1	11230	.1	22	124	20860
18242 B	1.2	10270	1	2	125	.4	4	13340	.1	12	13	20040
18243 B	1.1	9360	1	2	204	.4	3	11270	.1	8	6	19840
18245 B	1.2	12690	1	2	22	.1	3	6720	.1	22	65	22600
18250 B	.8	13180	1	1	9	.1	2	8720	.1	18	56	17140
18251B	4.1	18020	1	5	10	.1	4	12870	.1	37	1511	40680
18253B	1.6	12340	20	4	11	.4	3	11470	.1	125	38	34010
18254B	1.6	14410	5	4	15	.2	3	10860	.1	73	115	34900
18255B	1.3	12400	1	3	14	.2	3	9250	.1	32	31	31020
18256B	1.7	14860	1	5	418	.1	6	20370	.1	22	13	107560
18257B	.1	1270	1	4	1140	.4	1	320	.1	11	6	109090
18289B	1.5	8830	1	1	25	.1	2	7560	.1	19	171	20300
18294 B	2.4	9270	1	1	7	.3	2	7650	.1	20	414	17310
18295 B	6.4	16830	1	3	86	1.1	6	23140	.1	84	2307	67440
18296 B	1.4	9080	1	1	9	.1	4	8620	.1	9	28	14520
18297 B	1.3	6010	1	2	3	.3	3	6490	.1	45	109	31320
18298 B	2.9	6480	21	3	35	.7	3	15700	.1	42	106	28650
18299 B	2.0	5990	70	6	45	1.2	3	24700	.1	119	145	99030
18300 B	1.5	7600	3	6	57	1.0	3	16240	.1	80	220	94220
18301 B	2.0	10270	34	2	151	.4	2	19190	.1	16	34	24900
18306 B	1.0	6780	6	2	43	.4	3	13040	.1	37	64	34770
18307 B	1.5	7540	1	2	140	.5	3	19740	.1	33	28	25130
18308 B	1.0	13410	1	4	479	.9	3	11940	.1	77	74	45860
18309 B	3.9	6370	1	4	20	.3	4	7150	.1	90	646	59470
18310 B	1.0	7020	1	1	6	.1	3	6620	.1	20	51	16240
18311 B	1.3	9600	1	2	5	.3	13	7780	.1	31	14	34230
18312 B	1.3	11340	1	4	50	.7	6	14250	.1	23	37	28260
18313 B	1.0	7430	30	2	11	.6	2	9020	.1	110	325	36810
18314 B	2.4	21610	1	6	96	1.7	6	31960	.1	19	85	40830
18315 B	6.5	18730	38	5	112	.1	8	31210	5.2	51	2255	56950
18316 B	2.9	16620	3	3	256	1.7	4	31350	.1	326	167	68970
18317 B	.8	11440	1	2	2	.2	3	30130	.1	5	3	36070
18318 B	1.0	9840	1	2	10	.2	3	25360	.1	8	15	30400
18322 B	.9	6320	86	1	39	.3	2	14250	.6	7	76	9980
18351 B	.5	8160	1	7	21	.6	3	5730	.1	24	52	115060
18353 B	1.5	13450	30	4	330	1.8	6	24650	1.3	10	67	27960
18354 B	2.3	9750	29	3	192	.6	7	30340	.1	51	174	47880
18355 B	2.3	10430	10	2	73	.8	6	21810	.3	16	18	22770
18356 B	3.2	6710	1	1	94	.1	8	26830	.2	15	630	26400
18357 B	1.3	16290	1	3	112	.1	5	7430	.1	23	93	31250

COMP: CEC ENGRG.
PROJ: NORTH KEMESS
ATTN: M.REBAGLIATI

MIN-EN LABS -- ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1203-HJ1+2
DATE: NOV-05-90
* H.M. NON-MAG * (ACT:F31) PAGE 2 OF 3

SAMPLE NUMBER	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM
18180B	440	15	16580	918	1	120	9	1330	54	1	96	1
18181B	120	1	350	70	1	90	1	8030	45	2	21	5
18183B	370	3	3330	79	1	60	246	1460	239	1	6	1
18184B	80	1	90	1	1	20	1	10	4	1	1	1
18185B	550	6	5930	487	1	100	1	3570	241	1	12	1
18186B	260	9	10780	795	1	90	1	3220	28	1	59	1
18187B	270	13	10860	704	1	130	1	2990	20	1	59	1
18188B	260	19	15300	1145	1	170	1	5920	26	1	63	1
18189B	270	5	1840	111	1	80	1	1230	5	1	6	1
18220B	640	11	10770	1094	1	220	1	14010	35	1	48	5
18221B	1400	12	10800	1210	11	140	1	13590	33	1	44	1
18222B	1880	12	11450	492	1	240	1	8750	23	1	18	1
18230B	330	4	8140	446	1	110	14	680	11	1	25	1
18234B	180	3	2220	120	1	60	1	3650	36	2	43	1
18242 B	1080	12	10770	610	1	170	1	5630	32	1	38	1
18243 B	1740	9	9170	618	1	200	1	4590	24	1	20	2
18245 B	1090	9	11570	318	1	310	6	460	9	1	27	1
18250 B	320	3	5090	151	1	1370	15	1250	7	1	14	1
18251B	200	13	13770	801	1	130	5	510	34	1	27	1
18252B	210	17	11830	794	1	100	1	2630	14	1	64	1
18253B	180	8	7480	550	1	130	1	2650	17	1	50	1
18254B	200	13	10420	506	1	90	1	1770	19	1	59	1
18255B	200	9	8090	538	1	50	1	1310	16	1	84	1
18256B	190	15	11890	1426	1	150	1	8250	42	1	30	1
18257B	70	1	190	1	1	30	1	60	14	1	9	1
18289B	220	5	8070	454	1	90	5	650	23	1	37	1
18294 B	210	6	6330	386	1	100	5	800	22	1	64	1
18295 B	520	14	15540	1060	1	210	7	4300	86	1	31	1
18296 B	610	3	5240	216	1	120	6	800	12	1	24	1
18297 B	210	2	3340	90	1	130	12	510	25	1	13	1
18298 B	190	7	6820	391	1	120	3	8220	43	1	24	1
18299 B	1880	6	5350	479	7	190	1	18520	30	2	42	1
18300 B	380	6	5350	594	1	200	1	8740	35	1	42	1
18301 B	1730	8	8220	547	3	230	2	9280	34	1	33	2
18306 B	1130	4	4470	186	1	110	1	6830	31	1	32	1
18307 B	1100	7	7390	451	1	180	4	10730	36	1	30	1
18308 B	5530	28	13080	516	1	360	1	4190	26	1	13	1
18309 B	390	3	5280	289	1	480	16	790	28	1	19	1
18310 B	740	5	6440	135	1	180	14	480	10	1	8	1
18311 B	130	3	7060	366	1	120	5	850	20	1	42	1
18312 B	340	7	8940	614	1	120	2	6390	29	1	52	2
18313 B	360	3	4480	308	1	90	10	400	36	1	32	1
18314 B	580	17	13170	977	1	250	1	8700	35	1	42	1
18315 B	230	16	19150	1302	1	280	26	1530	322	3	5	1
18316 B	1180	10	14500	1304	1	150	1	4960	105	1	24	1
18317 B	30	1	1840	1665	1	10	1	160	18	1	1	1
18318 B	120	3	4590	1299	1	100	2	2750	31	1	1	1
18322 B	260	4	5640	265	1	100	2	7370	25	1	29	1
18351 B	290	4	4660	178	1	650	1	1020	1	1	8	1
18353 B	550	10	8730	423	1	180	1	15350	30	2	64	1
18354 B	1200	10	8010	413	4	280	1	13820	59	4	67	2
18355 B	540	13	6400	454	4	210	1	5770	40	1	43	1
18356 B	820	5	4420	234	1	210	1	7980	40	1	13	1
18357 B	3110	12	6760	322	1	1190	15	540	2	1	12	1

COMP: CEC ENGRG.
PROJ: NORTH KEMESS
ATTN: M.REBAGLIATI

MIN-EN LABS -- ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1203-HJ1+2
DATE: NOV-05-90
(ACT:F31) PAGE 3 OF 3

SAMPLE NUMBER	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	* H.M. NON-MAG * AU PPB	HM %
18180B	1	143.9	83	1	4	1	9	1	1.07
18181B	1	34.8	6	1	1	1	82	35	.20
18183B	1	37.0	29	1	1	1	1	510	.65
18184B	1	521.1	1	1	1	1	1	10	1.81
18185B	1	61.2	42	1	1	1	1	15	.69
18186B	1	63.8	59	1	1	1	1	30	4.67
18187B	1	76.1	67	1	1	1	1	55	3.89
18188B	1	118.8	110	1	1	1	1	25	2.70
18189B	1	339.8	31	1	1	1	1	5	1.82
18220B	2	61.8	105	1	1	1	1	35	.91
18221B	1	42.9	76	1	1	1	1	30	1.16
18222B	1	49.4	41	1	1	1	1	10	1.84
18230B	1	68.1	56	1	1	2	37	30	25.89
18234B	1	12.4	26	1	1	1	1	260	1.88
18242 B	1	49.8	53	1	1	1	1	5	1.25
18243 B	1	46.1	52	1	1	1	1	10	.72
18245 B	1	54.1	34	1	1	1	1	5	15.00
18250 B	1	45.9	16	1	1	1	7	5	13.78
18251B	1	120.3	77	1	1	1	1	20	4.16
18252B	1	73.0	70	1	1	1	1	5	4.28
18253B	1	70.5	46	1	1	1	1	5	4.12
18254B	1	66.9	46	1	1	1	1	5	6.07
18255B	1	52.2	50	1	1	1	1	5	8.77
18256B	1	283.2	151	1	1	1	1	115	.60
18257B	1	343.4	6	1	1	1	1	10	.81
18289B	1	62.7	57	1	1	1	41	5	18.02
18294 B	1	64.3	35	1	1	1	1	30	9.19
18295 B	1	119.8	107	1	1	1	1	5	.30
18296 B	1	61.2	31	1	1	1	20	5	18.12
18297 B	1	48.3	14	1	1	1	1	1000	8.98
18298 B	1	49.2	35	1	1	1	1	115	.83
18299 B	1	38.6	32	1	2	1	1	5	.58
18300 B	1	65.4	51	1	2	1	1	5	.94
18301 B	4	51.4	32	1	1	1	1	5	.59
18306 B	1	31.8	20	1	1	1	1	10	1.19
18307 B	1	45.7	36	1	1	1	1	10	.68
18308 B	1	61.4	44	1	1	1	1	10	1.74
18311 B	1	67.7	54	1	1	1	5	140	14.77
18312 B	1	56.9	52	1	1	1	2	5	2.44
18313 B	1	48.2	82	1	1	1	1	10	7.36
18314 B	1	147.5	40	1	1	1	1	5	.74
18315 B	2	153.2	159	2	2	1	48	10	.11
18316 B	1	49.3	108	2	3	1	1	180	.30
18317 B	1	9.7	27	1	1	1	1	5	58.78
18318 B	1	89.8	55	1	1	1	7	5	11.34
18322 B	1	32.7	30	1	1	1	1	10	3.16
18351 B	1	474.9	31	1	2	1	24	5	4.27
18353 B	2	97.5	39	1	1	1	1	50	.81
18354 B	1	101.6	45	1	1	2	1	120	.34
18355 B	1	68.7	47	1	1	1	1	110	.42
18356 B	1	64.6	37	1	1	1	1	10	.27
18357 B	1	65.3	27	1	1	1	2	10	4.32

COMP: CEC ENGRG.

MIN-EN LABS -- ICP REPORT

FILE NO: 0V-1295-HJ3

PROJ: NORTH KEMESS

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

DATE: NOV-05-90

ATTN: M.REBAGLIATI

(604)980-5814 OR (604)988-4524

* HM * (ACT:F31) PAGE 1 OF 3

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM
18331	.7	4150	1	2	11	.1	2	5020	.1	11	47	10630
18332	5.7	18330	1	10	13	.1	10	15750	.1	275	556	144520
18333	2.2	17190	1	5	39	.1	6	7010	.1	32	35	96780
18360	7.8	13690	1	3	21	.1	1	12560	.1	19	7020	41790
18361	1.8	6010	1	6	516	.1	3	11830	.1	16	396	85430
18362	2.7	30200	1	4	76	.7	3	27220	.1	97	493	68280
18363	1.6	6310	48	5	5	.1	2	3930	.1	48	285	96380
18364	4.3	19950	1	4	159	.3	5	41460	.1	70	537	53120
18365	1.1	8690	1	10	7	.5	1	10020	.1	17	102	16740
18366	1.1	8740	1	6	7	.3	2	11510	.1	20	64	15490
18367	1.5	11680	1	7	13	.4	1	13790	.1	54	97	20580
18369	1.2	21100	1	3	44	.4	1	4990	.1	156	900	55180
18370	1.2	17660	1	2	16	.3	2	10620	.1	28	93	37970
18371	1.5	24300	1	1	15	.1	2	12200	.1	24	260	28890
18372	1.1	10070	1	1	11	.1	2	8820	.1	11	65	16500
18373	8.7	14310	1	6	55	.3	17	32780	5.5	36	133	49000
18374	1.2	20180	1	1	25	.1	3	10100	.1	31	69	23960
18376	.9	5890	1	1	10	.1	1	12990	.1	5	43	9150
18377	1.2	6620	1	1	9	.2	1	15660	.1	11	41	12480
18378	.7	6660	1	1	18	.1	1	5730	.1	7	28	11090
18388	1.6	4400	5	1	105	.2	2	19030	.1	10	103	16610
18389	8.5	11500	1	9	1	.1	1	10760	.1	150	12851	164330
18390	2.9	16570	1	7	5	.1	1	6460	.1	253	2458	140120
18391	1.4	13450	1	1	10	.1	3	8030	.1	69	100	25240
18392	1.4	17800	1	1	28	.1	3	11610	.1	17	132	32870
18393	1.3	15260	1	2	47	.1	2	10160	.1	17	96	24460
18394	1.6	17590	1	2	30	.1	3	11360	.1	17	124	28300
28575	3.7	3340	1	12	8	.1	1	13560	.1	116	1513	126360
28576	6.1	53750	1	10	241	.1	1	5630	.1	187	2131	148770
28577	2.3	24760	1	7	42	.1	1	3030	.1	190	1218	97120
28578	2.8	4880	1	17	11	.1	1	6140	.1	356	1243	232600
28579	7.1	41980	1	5	26	.1	1	21460	.1	130	5131	64220
28580	2.0	38860	3	2	18	.1	2	17310	.1	22	150	24940
28581	1.3	49490	1	7	37	.1	1	6430	.1	62	88	118230
28582	5.9	34080	1	10	22	.1	1	6460	.1	257	3613	180180
28583	2.3	34090	10	3	15	.1	2	15010	.1	63	450	41510
28584	4.5	38010	1	4	170	.1	1	12130	.1	92	1560	77270
28585	7.7	6420	1	9	9	.1	1	2650	.1	291	4124	153600
28586	5.2	33040	10	1	14	.2	1	20980	.1	30	2624	21690

COMP: CEC ENGRG.
PROJ: NORTH KEMESS
ATTN: M.REBAGLIATI

MIN-EN LABS -- ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1373-HJ1
DATE: NOV-05-90
* HM * (ACT:P31) PAGE 2 OF 3

SAMPLE NUMBER	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM
18331	360	3	3980	109	1	350	7	280	9	1	1	1
18332	690	13	9770	339	1	150	90	2100	11	1	4	1
18333	2380	16	17000	558	1	410	1	950	3	1	14	1
18360	300	10	13720	639	1	150	5	70	12	1	41	1
18361	240	4	3990	484	1	80	1	3120	29	1	15	1
18362	410	31	17360	2003	1	130	1	10440	82	1	38	1
18363	280	3	4610	296	1	30	9	1040	25	1	23	1
18364	1090	15	16740	1202	1	160	2	18730	134	1	76	1
18365	200	12	8810	411	1	60	1	2920	22	1	50	1
18366	130	13	8150	397	1	50	1	4290	13	1	56	1
18367	170	16	9720	566	1	60	1	6940	10	1	76	1
18369	2080	21	6980	220	41	180	100	1830	20	1	9	1
18370	260	9	5690	174	1	1950	5	2270	3	1	14	1
18371	550	11	11510	565	1	1910	37	1220	3	1	18	1
18372	400	8	5280	114	1	1100	12	1600	3	1	11	1
18373	430	11	11530	867	1	360	1	6550	57	1	33	1
18374	1980	12	9360	94	2	1590	49	540	3	1	25	1
18376	130	2	4350	164	1	700	1	6800	10	1	35	1
18377	130	2	5830	327	1	520	2	8920	12	1	35	1
18378	230	1	5070	122	1	840	13	340	11	1	11	1
18388	1060	4	5970	316	1	240	1	10370	12	1	25	1
18389	560	4	1350	240	1	120	61	150	3	1	12	1
18390	10130	17	10360	90	1	180	132	2310	3	1	15	1
18391	460	6	6740	99	1	1390	49	230	4	1	7	1
18392	1160	11	7620	411	1	1710	3	670	3	1	11	1
18393	1580	10	7480	286	1	1620	6	660	3	1	12	1
18394	1180	22	9990	380	1	1490	5	600	3	1	12	1
28575	350	5	2530	98	1	110	1	8640	6	1	40	1
28576	25500	71	21290	315	1	410	16	1570	5	1	38	1
28577	5940	35	10510	227	1	200	38	1000	9	1	20	1
28578	710	4	3740	1	1	70	29	1990	159	1	26	1
28579	1640	15	13230	367	1	4260	108	1470	21	1	28	1
28580	810	12	9240	112	1	2350	27	890	13	1	17	1
28581	1840	35	12230	375	1	130	51	2890	5	1	33	1
28582	9340	20	12470	65	1	450	217	610	6	1	38	1
28583	1620	14	13340	218	4	2050	95	2370	11	1	31	1
28584	14330	36	12600	202	1	460	97	7250	5	1	39	1
28585	1510	7	2390	1	1	190	129	350	9	1	19	1
28586	570	4	1940	89	2	1990	32	4270	13	1	32	1

COMP: CEC ENGRG.
PROJ: NORTH KEMESS
ATTN: M.REBAGLIATI

MIN-EN LABS -- ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1373-HJ1
DATE: NOV-05-90
(ACT:F31) PAGE 3 OF 3

SAMPLE NUMBER	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB	* HM * HM %
18331	1	33.3	12	1	1	1	17	10	10.75
18332	1	104.6	32	1	4	1	1	130	.42
18333	1	225.8	37	1	6	1	9	20	5.11
18360	1	134.6	36	1	2	1	20	65	2.78
18361	1	166.3	85	1	2	1	1	41	.55
18362	1	63.8	286	1	2	1	1	455	.59
18363	1	49.8	56	1	5	1	1	15	10.63
18364	1	52.5	139	1	3	1	1	55	.66
18365	1	32.9	33	1	1	1	1	25	4.18
18366	1	29.9	42	1	1	1	2	10	3.70
18367	1	37.8	45	1	1	1	1	5	2.57
18369	1	60.1	51	1	3	1	6	100	1.66
18370	1	59.2	20	1	1	1	1	5	14.96
18371	1	80.2	17	1	1	1	42	30	14.95
18372	1	58.8	9	1	1	1	10	20	21.48
18373	1	174.9	34	1	1	1	1	17	.70
18374	1	52.1	7	1	1	1	38	5	10.17
18376	1	13.6	17	1	1	1	1	10	12.68
18377	1	17.1	19	1	1	1	3	5	5.69
18378	1	40.6	16	1	1	1	42	5	3.35
18388	1	27.6	15	1	1	1	1	10	.93
18389	1	52.0	1	1	15	1	1	1000	12.91
18390	1	111.2	10	2	12	1	1	200	1.73
18391	1	49.7	9	1	1	1	25	20	7.32
18392	1	76.8	27	1	1	1	1	10	16.50
18393	1	77.9	22	1	1	1	11	5	19.41
18394	1	95.0	23	1	1	1	7	10	20.75
28575	1	35.6	3	1	7	1	1	45	1.24
28576	1	374.6	7	4	12	1	1	60	3.23
28577	1	168.7	16	2	7	1	1	70	4.57
28578	1	78.7	58	1	7	1	1	35	1.11
28579	1	115.4	19	2	3	1	24	75	2.55
28580	1	53.8	11	2	1	1	19	5	14.33
28581	1	202.8	43	3	10	1	76	5	7.20
28582	1	159.8	2	3	15	1	2	535	3.31
28583	1	98.2	29	2	3	1	56	70	3.29
28584	1	172.2	10	3	6	2	101	235	6.01
28585	1	84.8	4	1	5	1	1	1200	2.09
28586	1	31.9	13	2	2	1	5	3700	15.83

APPENDIX C

Rock Sample Descriptions - Surface Lithogeochemistry

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18183	6326070 637400	Bladed Feldspar Porphyry Tuff Breccia	magnetite 1-2 laumontite 2-3 fe-oxides minor pyrite 1	
18184	6326430 637560 1850	Felsic (Rhyolite?) Flow -intensely altered	kspar 50 quartz 5	pyrite 2
18185	6326525 637720 1760	Feldspar Crystal Tuff/Tuff Breccia	feldspar crystals 40-50 magnetite 2	pyrite 1
18186	6327200 637600 1700	Feldspar Crystal Tuff/Tuff Breccia	feldspar crystals 40 quartz 3 mafics fragments 10 lithic fragments 30 epidote 5 magnetite 2 laumontite 5	pyrite trace
18187	6327035 637540 1775	Feldspar Crystal Tuff Breccia	feldspar crystals 40 quartz crystals 5 lithic clasts 30 magnetite 2 laumontite 2-3	rare
18188	6326870 637540 1780	Feldspar Crystal Tuff Breccia same as 18187	epidote 1	

Sample Number	Location (UTM N) (UTM E) (Elev., m	Rock Name	Composition (%)	Sulphides (%)
18189	6326695 637540 1800	Intermediate Flow or Dike	Syenite Hornblende Feldspar Porphyry Dike	hornblende 10 kspar 70 plag 5 magnetite trace
18220	6324635 635175 1790	Monzo-Granite -aphanitic felsic groundmass, slightly pinkish clay altn	quartz 20 hornblende 15 kspar 55 magnetite 1 biotite 1 epidote minor	
18221	6324420 635205 1730	Monzo-Granite -as 18220		
18222	6324395 635000 1740	Monzo-Granite -as 18220-18221	magnetite 2	nil
18230	6324735 635635 1820	Basaltic Flow Breccia	plagioclase 30 augite 10 epidote 5	nil
18234	6324845 6355780 1840	Alaskite	quartz 25 feldspar 65 epidote 3	nil
18242	6325395 637370 1825	Monzonite	kspar 40 plagioclase 30 hornblende 10 biotite 5 magnetite 1 fine felsic groundmass 10	

Sample Number	Location (UTM N) (UTM E) (Elev., m	Rock Name	Composition (%)	Sulphides (%)
18243	6325440 637480 1840	Monzonite -as 18242, thin planar epidote veinlets	epidote 7 laumontite 2 magnetite 1	
18245	6324580 635755 1770	Feldspar Crystal Tuff	Feldspar 30 Augite 20 epidote 20 magnetite 1	
18250	6323510 636410 1670	Basalt -fresh unaltered, very finely crystalline.		pyrite trace
18351	6323315 636355 1625	Basalt -as 18250 cut by aplite dyke	aplite has quartz 30 kspar 65	
18356	6324960 637180 1770	Quartz Monzonite -as per general description		
18357	6324790 637110 1760	Basalt -black, finely crystalline, cut by aplite dyke	magentite 2-3 Aplite has quartz 30 kspar 65 epidote minor	
18358	6324670 636955 1760	Andesite Feldspar Porphyry -coarse phenocrysts in dark grey very fine grained groundmass	plagioclase 20	pyrite trace
18359	6324595 636795 1760	Basalt -black, finely crystalline, some biotite alteration of mafics		pyrite trace

Sample Number	Location (UTM N) (UTM E) (Elev., m	Rock Name	Composition (%)	Sulphides (%)
18360	6326145 637570 1925	Bladed Feldspar Porphyry Basalt Flow Breccia -dominated by bladed feldspar porphyry in fragments, local kspar filled amygdales(few filled with calcite)	epidote minor	
18361	6326205 637750 1840	Feldspar Crystal Tuff	feldspar 60 felsic groundmass 30 magnetite 1	nil
18362	6326265 638940 1890	Feldspar Crystal Tuff	feldspar 50 magnetite 2	
18363	6326270 638080 1870	Rusty Zone(possible fault) -original rock probably flow facies		pyrite 1-2
18364	6326350 638260 1875	Feldspar Crystal Tuff laumontite common in fracture	feldspar 60 chlorite 5 calcite trace felsic groundmass 30	pyrite 30
18365	6326500 638395 1855	Quartz Feldspar Crystal and Lithic Lapilli Tuff -hematite as fracture coating	feldspar 60 hornblende 10 epidote 10 magnetite 1	pyrite trace
18366	6326700 638495 1810	Quartz Feldspar Crystal and Lithic Lapilli Tuff -lapilli comprise less than 2% of rock		

Sample Number	Location (UTM N) (UTM E) (Elev., m	Rock Name	Composition (%)	Sulphides (%)
18367	6326870 638455 1750	Quartz Feldspar Crystal and Lithic Lapilli Tuff -as 18365, 18366		
18368	6326465 637930 1780	Fragmental Volcanic? -intermediate rock with sericite/quartz groundmass, spots of chlorite	mafics 2	nil
18369	6324455 636785 1760	Basalt -dense, hard, fresh, finely crystalline, fine felsic ash		
18370	6324030 637605 1870	Volcanic Ash Tuff -very fine grained to aphanitic, fine felsic ash?	fe oxides 10	pyrite 2
18371	6324220 637620 1860	Basalt -hard, dense, black, very fine grained		pyrite 1

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18372	6324395 637645 1870	Basalt -as 18371		pyrite trace
18373	6324555 637695 1840	Syenite Hornblende Feldspar Porphyry -white, partly altered to clay	feldspar 50 hornblende 10 magnetite 1 epidote 3	
18374	6324555 637695 1840	Basalt -dense, hard, black, come chloritization of mafics and saussuritization of feldspar		pyrite 0.5
18375	6324590 637550 1840	Basalt -dense, hard, black, local seams of chlorite and magnetite		pyrite minor chalcopy trace
18376	6324115 634670 1570	Quartz Monzonite -quartz is irregular shaped and has irregular boundaries	quartz 10 biotite 10 hornblende 5 magnetite 3 epidote 1 kspar 45 plagioclase 25	
18377	6324205 635075 1650	Quartz Monzonite	quartz 10 hornblende 5 biotite 10 epidote 5 magnetite 3 hematite 2 kspar 36 plagioclase 24	pyrite trace

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18378	6324185 635045 1650	Basalt -large dyke or pendant, very fine grained, dark greenish grey	fe oxides 0.5 magnetite 1 epidote 0.5	
18379	6324300 634815 1670	Quartz Monzonite - similar to 18376, hematite as specks in mafic silicates	fe oxides 10	pyrite 2
18380	6324470 634800 1675	Quartz Monzonite	quartz 10 hornblende 15 magnetite 2 kspar 39 plagioclase 26	
18382	6324560 634450 1510	Quartz Monzonite -altered, mafics to chlorite, increased magnetite	quartz 10 mafics 10 magnetite 7 kspar 39 plagioclase 26 pyrite 1	
18383	6324345 634400 1450	Basalt -black, very fine grained, weakly magnetic, local pervasive sericitization, local seams epidote, some massive brown garnet		
18384	6324260 635460 1540	Hornblende Quartz Monzonite -pink laumontite coating on some fractures	quartz 15 hornblende 10 magnetite 1 epidote 2 kspar 39 plagioclase 26	

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18385	6324420 635435 1600	Quartz Monzonite -pyritized	quartz 10 fe oxides 10 phyllic groundmass 75	pyrite 2
18386	6323590 635670 1520	Hornblende Biotite Quartz Monzonite -no significant alteration	quartz 20 hornblende 5 biotite 10 magnetite 1	nil
18387	6324085 635435 1470	Biotite Hornblende Quartz Monzonite -biotitization of mafics with retrograde to chlorite, fe oxides on fractures	quartz 10 hornblende 10 biotite 5 magnetite 0-1 feldspar 65	pyrite 0-2
18388	6324875 637350 1780	Biotite Hornblende Quartz Monzonite -laumontite veinlets common	quartz 10 biotite 5 hornblende 10 feldspar 65 magnetite 2	
18389	6324720 637405 1800	Basalt -black, pervasively altered to aphanitic buff material, local malachite stain		pyrite 5 chalcopy 0.5
18390	6329880 637620 1710	Dirty Quartzite -black, very fine grained	biotite? 10	pyrite 1
18391	6324785 637870 1760	Basalt -hard, black, finely crystalline, slight green tinge	magnetite 3	pyrite 1

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18392	63223845 637700 1870	Crystal Tuff medium to fine grained	mafics 10 felsics 70 chloritic felsic groundmass 20	pyrite trace
18393	6323710 637805 1880	Crystal Tuff -as 18392		pyrite 1 chalcopy trace
18394	6323620 637960 1920	Crystal Tuff -as 18392, 18393		pyrite 1
28575	6324845 637335 1800	Quartz Monzonite -coarse book biotite	biotite 5 hornblende 10 quartz 10 feldspar 70 magnetite 0.5	pyrite trace
28576	632485 637335 1800	Basalt -black volcanic	biotite 20 magnetite 2	pyrite 1 chalcopy trace
28577	1810	Basalt -very fine grained, black, partial erratic silicification	siliceous groundmass 60 relic mafics 30 magnetite 3	pyrite 5 chalcopy trace
28578		Basalt -as at 28576 but possibly silicified	biotite 20 feldspar 15	pyrite 3
28579		Very Fine Grained Black Basalt -unaltered		coarse chalcopy bleb 0.5

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
28580	1820	Basalt -very fine grained, black, unaltered, occasional secondary biotite		chalcopy trace
28581	1815	Basalt -unaltered		
28582	1830	Basalt -superficially unaltered, disseminated, veinlet and clotted pyrite	magnetite 0.25	pyrite 1
28583		Fractured Volcanic -dense, partly silicified, dark		pyrite 1
28584		Basalt -black, very fine grained, 1-2% silicification		pyrite 1 chalcopy trace
28585	1850	Basalt -hardened, bleached, pyritized		pyrite 2 chalcopy trace
28586	1850	Basalt -very fine grained, black, erratically bleached and hardened	epidote 1	pyrite 1-3 chalcopy 0.5

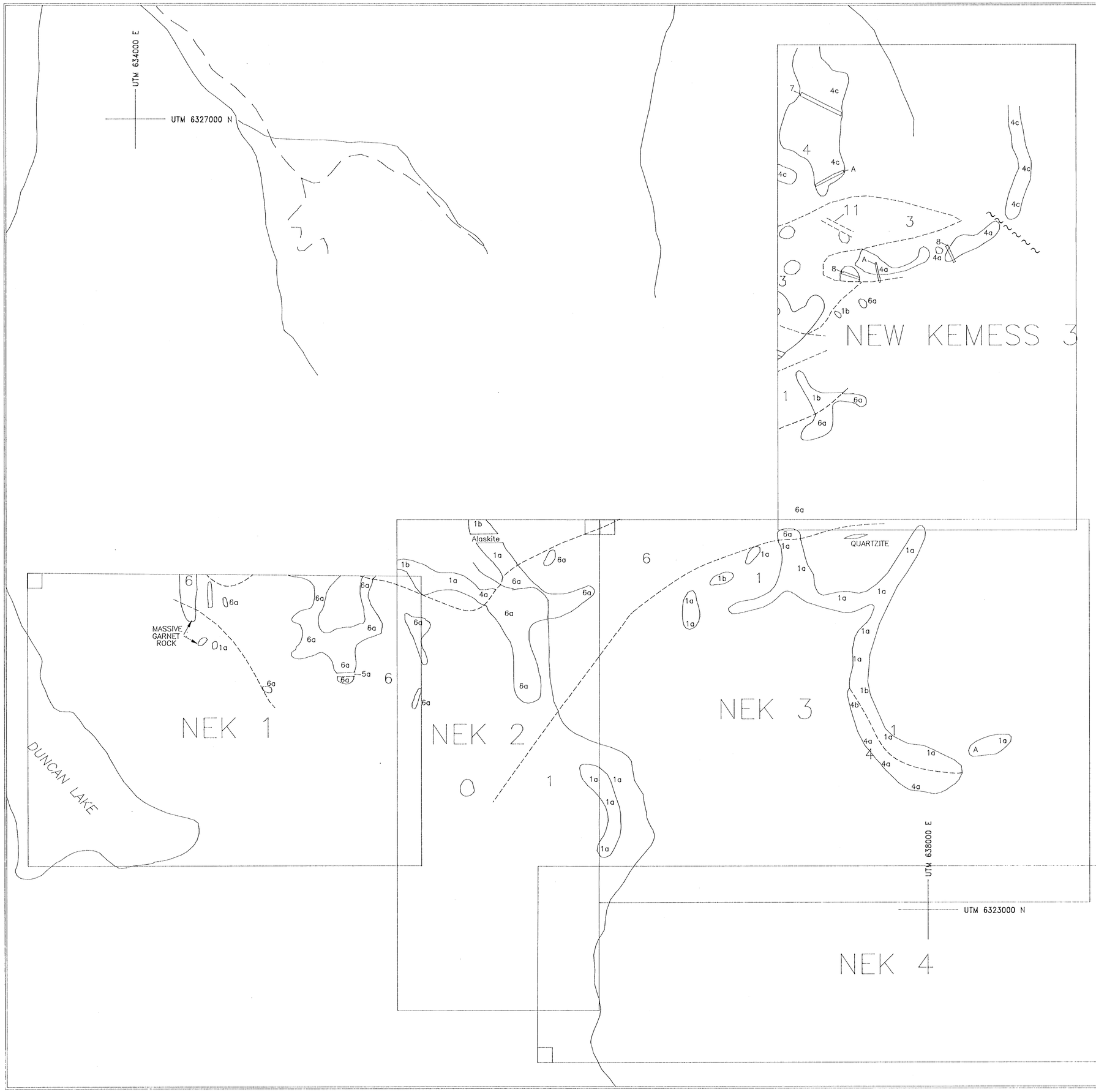
Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18180	6326250 637310	Flow Breccia / Tuff Breccia -as 18179, laumontite in fractures, localized bleach zone		
18181	6326250 637310	Altered Flow Breccia / Tuff Breccia -as 18179, potassic alteration, no magnetite		
18251	6326240 637270	Flow Breccia / Tuff Breccia -minor epidote and kspar	feldspar 10 magnetite 2 groundmass 88	nil
18252	6326650 637260	Quartz Monzonite / Breccia -clasts of bladed feldspar porphyry, granitic fragments	feldspar 70 quartz 10 mafics 17 magnetite 3	
18253	6326875 637270	Quartz Monzonite / Breccia -same as 18252, kspar, epidote, actinolite		
18254	6327030 637430	Quartz Monzonite -same as 18252, low amount of brecciation		
18255	6326820 637420	Quartz Monzonite -same as 18252, epidote alteration		pyrite trace

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18256	6326600 637450	Crystal Tuff -kspar alteration	feldspar 20 mafics 3 groundmass 77	
18257	6326770 637490	Trachyite Flow		pyrite <1
18289	6324880 635400	Tuff Breccia / Flow Breccia -as 18286 -kspar-epidote alteration	magnetite 2	
18294	6325780 637240	Bladed Feldspar Porphyry -as 18293		
18295	6325930 637370	Bladed Feldspar Porphyry Tuff Breccia / Flow Breccia	feldspar 20 Groundmass 78 magnetite 2	nil
18296	6324920 635710	Andesite Flow -slightly chloritic	hornblende 5 hematite 1 groundmass 95	

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18297	6324800 635820	Augite Porphyry Flow - fe oxides	augite 15-20 groundmass 76 magnetite 2 hematite trace	pyrite 1-2
18298	6324650 635850	Quartz Monzonite	quartz 10 feldspar 73 biotite 2 hornblende 15	
18299	6324530 636010	Quartz Monzonite - epidote on fractures	quartz 10 biotite 5 hornblende 15 feldspar 68 magnetite 2	nil
18300	6324480 635930	Quartz Monzonite -as 18299, weathering to clay		
18301	6324230 636000	Granodiorite -clay alteration	feldspar 58 biotite 20 magnetite 2 hornblende 5 quartz 15	nil
18306	6324600 636310	Quartz Monzonite	quartz 10 feldspar 65 biotite 3 magnetite 2 hornblende 20	
18307	6324580 636130	Quartz Monzonite -as 18306		
18308	6324790 636090	Quartz Monzonite -as 18306		

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18311	6325600 637410	Andesite -chloritized	hornblende 5 groundmass 95	pyrite trace
18312	6325580 637610	Quartz Monzonite -epidote	feldspar 72 hornblende 15 epidote 1 magnetite 2 quartz 10	nil
18313	6325830 637440	Bladed Feldspar Porphyry -epidote alteration	feldspar 5-20 magnetite 2 epidote 5-15 groundmass 78	
18314	6326050 637640	Quartz Monzonite	feldspar 73 quartz 10 hornblende 15 magnetite 2	nil
18315	6326000 637540	Basaltic Dyke -melanocratic with calcite amygdales and feldspar lathes	magnetite 2	
18316	6326000 637540	Intermediate Flow	magnetite 2	
18317	6324500 634300	Garnetiferous Rock -hematite	garnet 94 hematite 3 calcite 2 chlorite 1	
18318	6324610 634250	Monzonite	feldspar 80 hornblende 20 epidote trace	
18322	6324600 634390	Quartz Monzonite	quartz 10 biotite 3 hornbl 15 magnetite 2 feldspar 70	nil

Sample Number	Location (UTM N) (UTM E) (Elev., m)	Rock Name	Composition (%)	Sulphides (%)
18323	6324360 634440	Intermediate Flow -very fine grained, small strings of garnet	epidote hematite actinolite	nil
18331	6323830 637980	Augite Porphyry Basalt	augite 15 magnetite 2 groundmass 83	nil
18332	6323820 638220	Altered Rock -epidote and clay alteration	epidote 10 clays 20 groundmass 58 laumantite 10 magnetite 2	nil
18333	6323860 638366	Basalt -calcite fracture filling		nil



LEGEND

LITHOLOGIC UNITS

- 1a BASALT FLOWS
- b INTERMEDIATE FLOWS
- c FLOW BRECCIAS
- 2 BLADED FELSPAR PORPHYRY FLOWS, AGGLOMERATE
- 3a BLADED FELDSPAR PORPHYRY TUFF BRECCIA
- b TUFF BRECCIA
- 4a FELDSPAR CRYSTAL (LITHIC LAPILLI) TUFF
- b ASH TUFF
- c QUARTZ FELDSPAR (LITHIC LAPILLI) TUFF
- d TUFFACEOUS ARGILLITE, MUDDY TUFF
- 5a BASALT DIKE
- b ANDESITE DIKE
- 6a QUARTZ – BEARING MONZONITE
- b GRANADIORITE
- c ALASKITE
- d MONZONITE
- 7 GRANITE – BIOTITE BEARING
- 8 SYENITE
- 9 GRANITE QUARTZ PORPHYRY
- 10 TRACHYTE

- A INTENSELY ALTERED
- OUTCROP
- INTERPRETED CONTACT
- PROBLEMATIC CONTACT

SCALE

0 500 1000

1 : 10,000

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,539

EL CONDOR RESOURCES LTD.
COPELAND REBAGLIATI & ASSOCIATES LTD.
KEMESS PROPERTY–NORTHERN PART

PROPERTY GEOLOGY

SCALE : 1 : 10,000	DRAWN BY : ProComp GeoDraft Ltd.	FILE : NKGEO.DWG	
DATE : APR. 91	REVISED :	FIGURE : 04	

UTM 634000 E

UTM 6327000 N

NEW KEMESS 3

NEK 1

NEK 2

NEK 3

NEK 4

DUNCAN LAKE

UTM 638000 E

UTM 6323000 N

LEGEND

- DRILL HOLE LOCATIONS
+ SAMPLE LOCATIONS

SCALE

0 500 1000

1 : 10,000

GEOLOGICAL BRANCH
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SAMPLE LOCATION MAP

SCALE : 1 : 10,000	DRAWN BY : ProComp GeoDraft Ltd.	FILE : SAMLOC	
DATE : APR. 91	REVISED :	FIGURE : # 5	

UTM 634000 E

UTM 6327000 N

FAR EAST CIRQUE

NEW KEMESS 3

EAST KEMESS

NEK 1

NEK 2

NEK 3

NEK 4

DUNCAN LAKE

UTM 638000 E

UTM 6323000 N

LEGEND

- 0 – 149 ppm Cu
- 149 – 600 ppm Cu
- 600 – 3190 ppm Cu
- 3190 + ppm Cu
- --300-- > 300 ppm Cu
- – – – EXTRAPOLATED CONTOUR

SCALE

0 500 1000

1 : 10,000

GEOLOGICAL BRANCH
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KEMESS PROPERTY–NORTHERN PART

HEAVY MINERAL LITHOGEOCHEMISTRY
COPPER (ppm)

SCALE : 1 : 10,000	DRAWN BY : ProComp GeoDraft Ltd.	FILE : CU.DWG	
DATE : APR. 91	REVISED :	FIGURE : 6	