ARIS SUMMARY SHEET

District Geologist, Smithers Off Confidential: 92.03.01

ASSESSMENT REPORT 21388 MINING DIVISION: Omineca

PROPERTY: Kemess South
LOCATION: LAT 57 00 18 LONG 126 44 36
UTM 09 6319994 637060
NTS 094E02E

CAMP: 051 Toodoggone Camp

CLAIM(S): Ron 4
OPERATOR(S): El Condor Res.
AUTHOR(S): Copeland, D.J.
REPORT YEAR: 1991, 104 Pages
COMMODITIES
SEARCHED FOR: Gold,Silver
KEYWORDS: Upper Triassic,Takla Group,Lower-Middle Jurassic
Toodoggone Formation,Volcanics,Pyroclastics
Late Triassic-Early Jurassic,Omineca Intrusions,Stocks,Dykes
Silicification,Pyrite,Chalcopyrite
WORK
DONE: Drilling
DIAD 437.4 m 3 hole(s);NQ
RELATED
REPORTS: 10161,12485,13027,14575,16852,18208
MINFILE: 094E 094

ASSESSMENT REPORT
for
1990 DIAMOND DRILLING
on the
KEMESS SOUTH PROPERTY

OMINECA MINING DIVISION
BRITISH COLUMBIA
N.T.S. 94 E/2

Latitude 57° 04' North
Longitude 126° 44' West

Claim Name	Record No.	Units	Record Date
Ron 4	3630	20	Mar 3, 1981
Ron 10	5850	20	Oct 5, 1983
Ron 11	5851	10	Oct 5, 1983
DU	6396	20	Jul 16, 1984
Rat 1	9463	9	Jun 15, 1988
SEM 1	10851	16	Jul 18, 1989
DU 2	12423	20	Aug 2, 1990
DUE 1	12425	1	Aug 2, 1990
DUE 2	12426	1	Aug 2, 1990
DUE 3	12427	1	Aug 2, 1990
DUE 4	12428	1	Aug 3, 1990
DUE 5	12429	1	Aug 3, 1990
DUE 6	12430	1	Aug 3, 1990
DUE 7	12431	1	Aug 3, 1990
DUE 8	12432	1	Aug 3, 1990
DUE 9	12433	1	Aug 3, 1990
DUE 10	12434	1	Aug 3, 1990

- Prepared For -

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- Prepared By -

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29 May 1991

D. J. Copeland, P. Eng.

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INTRODUCTION

The **KEMESS** SOUTH property is comprised of seven 4 post and ten 2 post mineral claims, totalling 125 units. It is located in the southern part of the Toodoggone mining camp in the Omineca Mining Division, northcentral British Columbia. All claims are owned by El Condor Resources Limited of Vancouver, B.C.

During the 1990 field season, El Condor Resources Ltd. employed C.E.C. Engineering Ltd. to manage and supervise diamond drilling on the property. 3 NQ size holes(DDH 90-20, 90-21 and 90-22) totalling 437.45 metres were drilled, split and sampled. 190 core samples were sent to Min-En Labs in Vancouver, B.C. for Au assay and 12 element ICP analysis. This report discusses the diamond drilling results.

SUMMARY

The Kemess South property, comprised of seven 4 post mineral claims and ten 2 post mineral claims, is situated 7 kilometres east of Thutade Lake, or 265 kilometres north of Smithers, in northcentral British Columbia. Geographic coordinates are 57° 04' North latitude by 126° 44' West longitude(N.T.S. 94E/2). All claims are owned by El Condor Resources Limited of Vancouver, B.C.

Access is possible via the Omineca Mine road which leads north from Fort St. James and passes 5 kilometres west of the property. El Condor Resources Ltd. has constructed a 5 kilometre tote road between the Omineca road and the property.

Access is also possible by scheduled fixed-wing aircraft flights from Smithers to the Sturdee airstrip which services much of the Toodoggone area. It is approximately 265 kilometres from Smithers to the Sturdee airstrip and 26 kilometres by helicopter from the airstrip to the property.

During the 1990 field season, El Condor Resources Ltd. employed CEC Engineering Ltd. to manage and supervise diamond drilling on the claims. 3 NQ size holes(DDH 90-20, 90-21 and 90-22) totalling 437.45 metres were drilled, logged, split and sampled. 190 core samples were sent to Min-En Labs in Vancouver, B.C. for Au assay and 12 element ICP analysis.

Conclusions and Recommendations

The limits of the mineralized zone are at present unknown. All of the IP anomaly as presently outlined and all extensions and new zones should be drilled to further define the lateral extent of the mineralized zone.

A mapping and sampling program should be undertaken on the entire Kemess property.

The IP and Magnetometer geophysical grid surveys done in November of 1990 should be extended to fully delineate the sulphide system.

LOCATION AND ACCESS

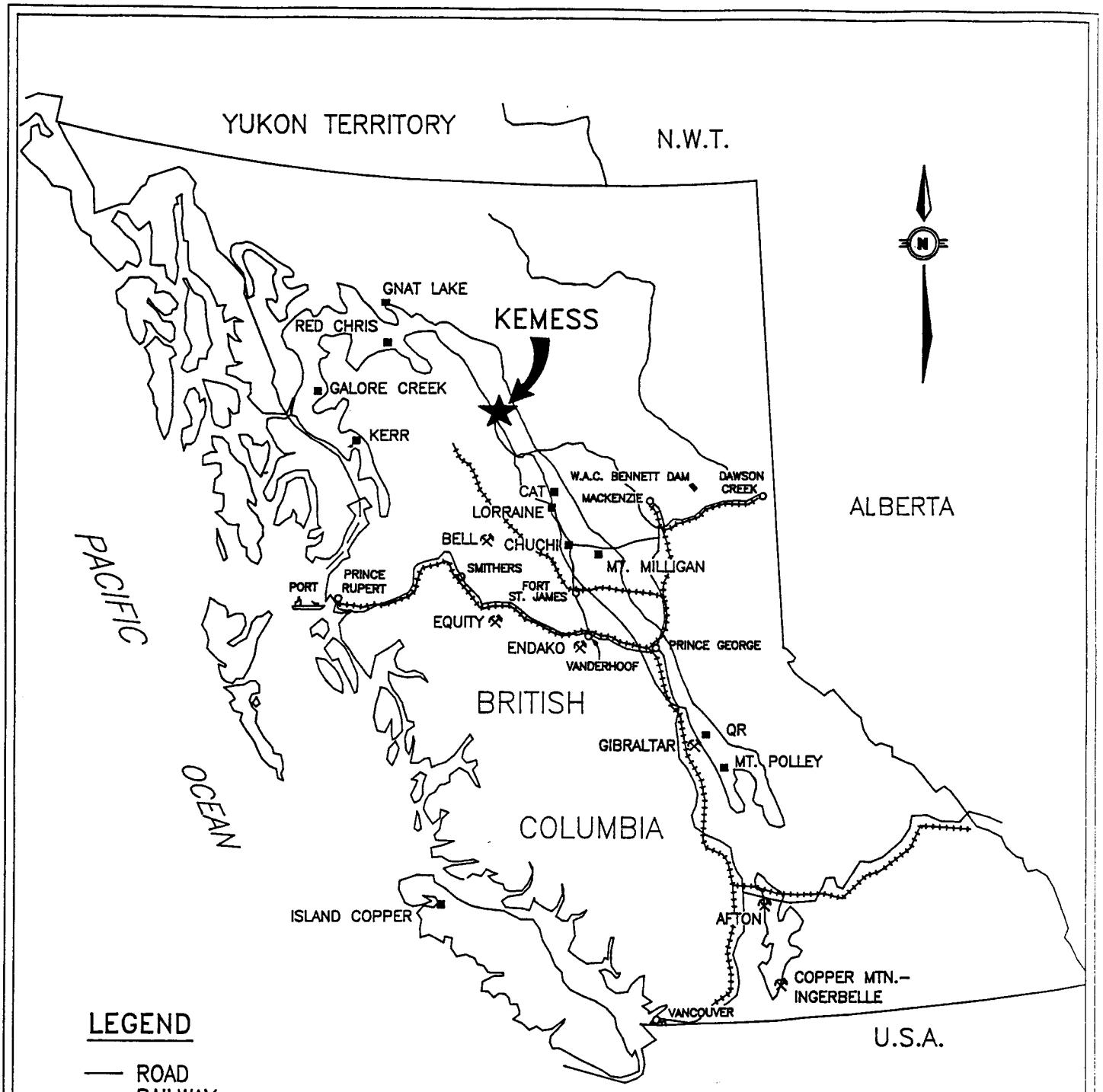
The **KEMESS** SOUTH property is situated 7 kilometres east of Thutade Lake, or 265 kilometres north of Smithers, in northcentral British Columbia. Its geographic coordinates are 57° 04' North latitude by 126° 44' West longitude (N.T.S. 94 E/2).

Road access is possible from Prince George, approximately 554 road km southeast, via Mackenzie, 368 road km southeast of the property. Alternate road access is possible along the Omineca Mine Road from Fort St. James. The road passes some 5 km west of the property and El Condor Resources Ltd has constructed a 5 kilometre tote road between the Omineca Mining Road and the property. This tote road is seasonally passable for four-wheel drive trucks, and all-terrain and tracked vehicles.

Access is also possible via scheduled fixed-wing aircraft flights from Smithers to the Sturdee airstrip that services much of the Toodoggone area and the Lawyers Mine. It is approximately 265 air kilometres from Smithers to the Sturdee airstrip and 26 air-kilometres by helicopter from the Sturdee airstrip to the property. In addition, the British Columbia Railway right of way passes 72 kilometres south of the property.

CLAIM DATA and OWNERSHIP

The property is located in the Omineca Mining Division of north central British Columbia. It is comprised of seven 4 post mineral claims and ten 2 post mineral claims, totalling 125 units. A claim map is provided in Figure 2 and pertinent claim data is summarized in Table 1.



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COPELAND REBAGLIATI & ASSOCIATES LTD.

KEMESS PROPERTY

LOCATION MAP

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

Table 1: Claim Data

Claim Name	Record No.	Units	Record Date	Expiry Date
Ron 4	3630	20	Mar 3, 1981	Mar 3, 1995
Ron 10	5850	20	Oct 5, 1983	Oct 5, 1994
Ron 11	5851	10	Oct 5, 1983	Oct 5, 1994
DU	6396	20	Jul 16, 1984	Jun 16, 1994
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DUE 8	12432	1	Aug 3, 1990	Aug 3, 1993
DUE 9	12433	1	Aug 3, 1990	Aug 3, 1993
DUE 10	12434	1	Aug 3, 1990	Aug 3, 1993
TOTAL		125		

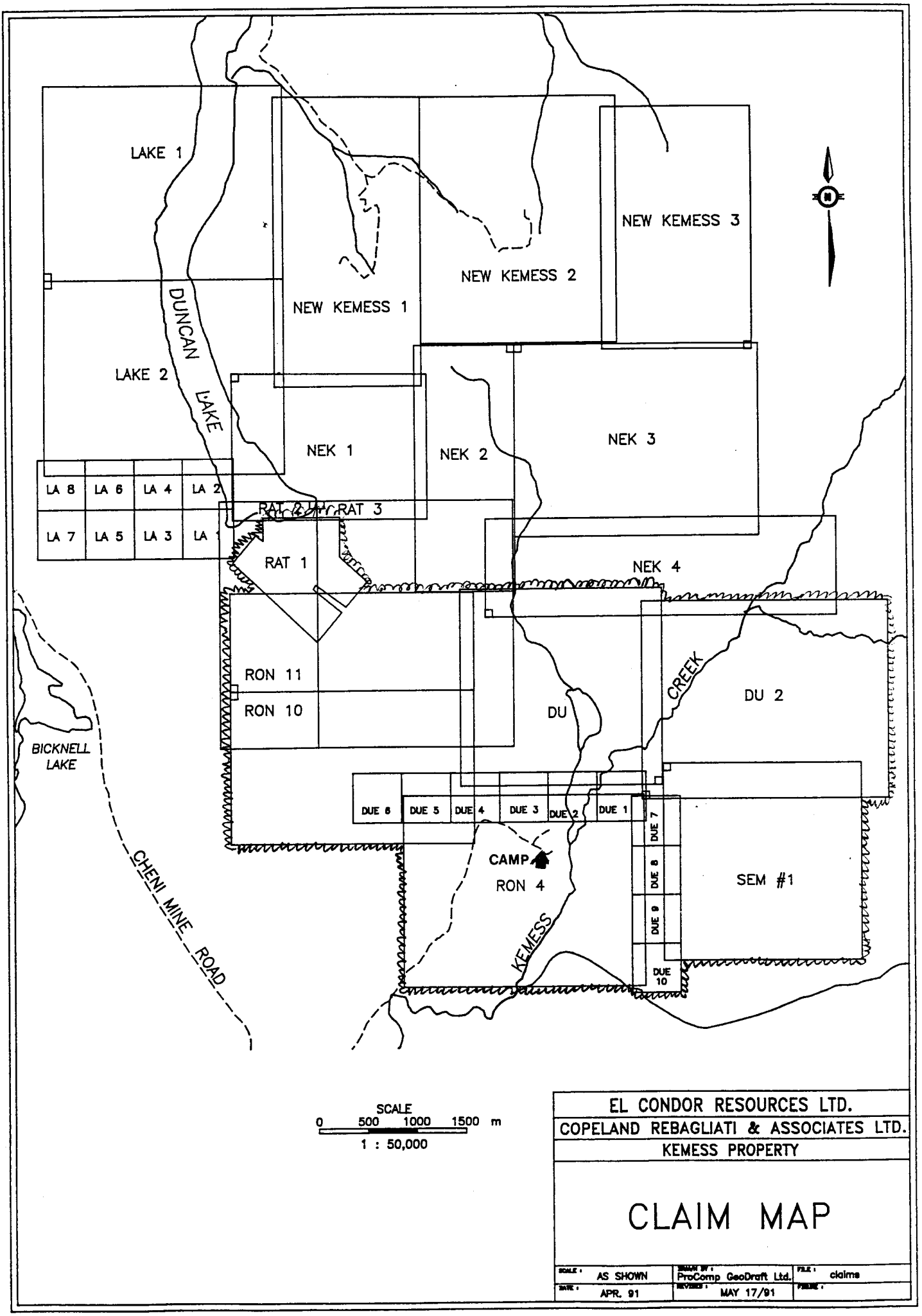
* Pending acceptance of this assessment report.

All claims are owned by El Condor Resources Limited of Vancouver, B.C.

PHYSIOGRAPHY

The property covers the slopes and highlands east of Duncan Lake. These highlands are part of the Omineca Mountains of the Swannell Range. Elevations range from 1,400 metres (4,593 feet) to 1,932 metres (6,339 feet) A.M.S.L.

The climate is moderate with temperatures ranging from -40° to +25° C. Precipitation is usually moderate. The snowpack commonly thaws by late June, and the field season may extend until mid to late October.


LAKE 1
NEW KEMESS 3
NEW KEMESS 2
NEW KEMESS 1
DUNCAN LAKE
LAKE 2
NEK 1
NEK 2
NEK 3
LA 8
LA 6
LA 4
LA 2
LA 7
LA 5
LA 3
LA 1
RAT 2
RAT 3
RAT 1
NEK 4
RON 11
RON 10
DU
CREEK
DU 2
BICKNELL LAKE
DUE 6
DUE 5
DUE 4
DUE 3
DUE 2
DUE 1
DUE 7
DUE 8
DUE 9
DUE 10
CAMP
RON 4
SEM #1
CHENI MINE ROAD
KEMESS
SCALE
0 500 1000 1500 m
1 : 50,000
EL CONDOR RESOURCES LTD.
COPELAND REBAGLIATI & ASSOCIATES LTD.
KEMESS PROPERTY
CLAIM MAP
SCALE : AS SHOWN
DRAWN BY : ProComp GeoDraft Ltd.
FILE : claims
DATE : APR. 91
REVISED : MAY 17/91
PHASE :

The topography is moderate but there is a series of very steep east-west cirque cliffs situated centrally within the claims. The most westerly cirque contains an alpine rock glacier which appears to be still active. Most of the property is above treeline where the vegetation is scrub balsam and low juniper.

HISTORY

Placer gold was discovered at the mouth of McConnell Creek, 30 kilometres northwest of Johansen Lake, in 1899. In 1907, a short lived gold rush occurred as a result of this discovery.

In the 1930's Cominco prospected the Thutade and Duncan Lakes area for the lode source of the placer gold found in Belle Creek. The source was not discovered but Cominco did stake four claims covering a skarn occurrence with lead-zinc mineralization, 3 kilometres west of the property (Stevenson, 1969).

In 1968, Kennco Explorations (Western) Limited discovered the Chapelle (Baker Mine) gold-silver deposit while searching for porphyry copper-molybdenum occurrences in the 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 significant gold and silver mineralization at Lawyers, Metsantan, Sha and Kemess properties.

The Baker (Chapelle) mine was in production until early 1984. Its initial reported reserves were 120,000 tons grading 0.8 ounces per ton gold and 15.0 ounces per ton silver. Reported reserves for this deposit are now 55,000 tons of 5.1 ounces per ton silver. The nearby Cheni (Lawyers) mine is now in production with reported mineable reserves of 1,414,000 tons of 0.205 ounces per ton gold and 7.27 ounces per ton silver (Schroeter, 1989).

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

The Ron 4 claim was part of a property staked in 1981 while the Ron 10 and Ron 11 were staked in 1983. In 1984, soil, magnetometer, and IP surveys(13 line km) were conducted over a portion of the Ron 4 for Pacific Ridge Resources.

In the fall of 1984, the area was tested by 323 metres of diamond drilling in six holes which revealed stockwork porphyry gold-copper-molybdenum mineralization

In 1987, a detailed fill-in soil survey and VLF-EM survey conducted over the area encompassed by the 1984 cut grid revealed a large copper anomaly.

In 1988, 775 metres of diamond drilling was completed in 15 holes to test geochem and geophysical targets. Encouraging Cu-Au values over significant widths were intersected in several holes and the known extent of the porphyry mineralization was expanded. The Rat 1 was also staked during this year.

In 1989, the Sem 1 was staked.

In 1990, El Condor Resources negotiated an option agreement with St. Philips Resources Inc., Stork Ventures Ltd., and Arcanna Industries Ltd. for the claims. The Du 2 and the Due 1 to Due 10 were also staked in Aug. 1990

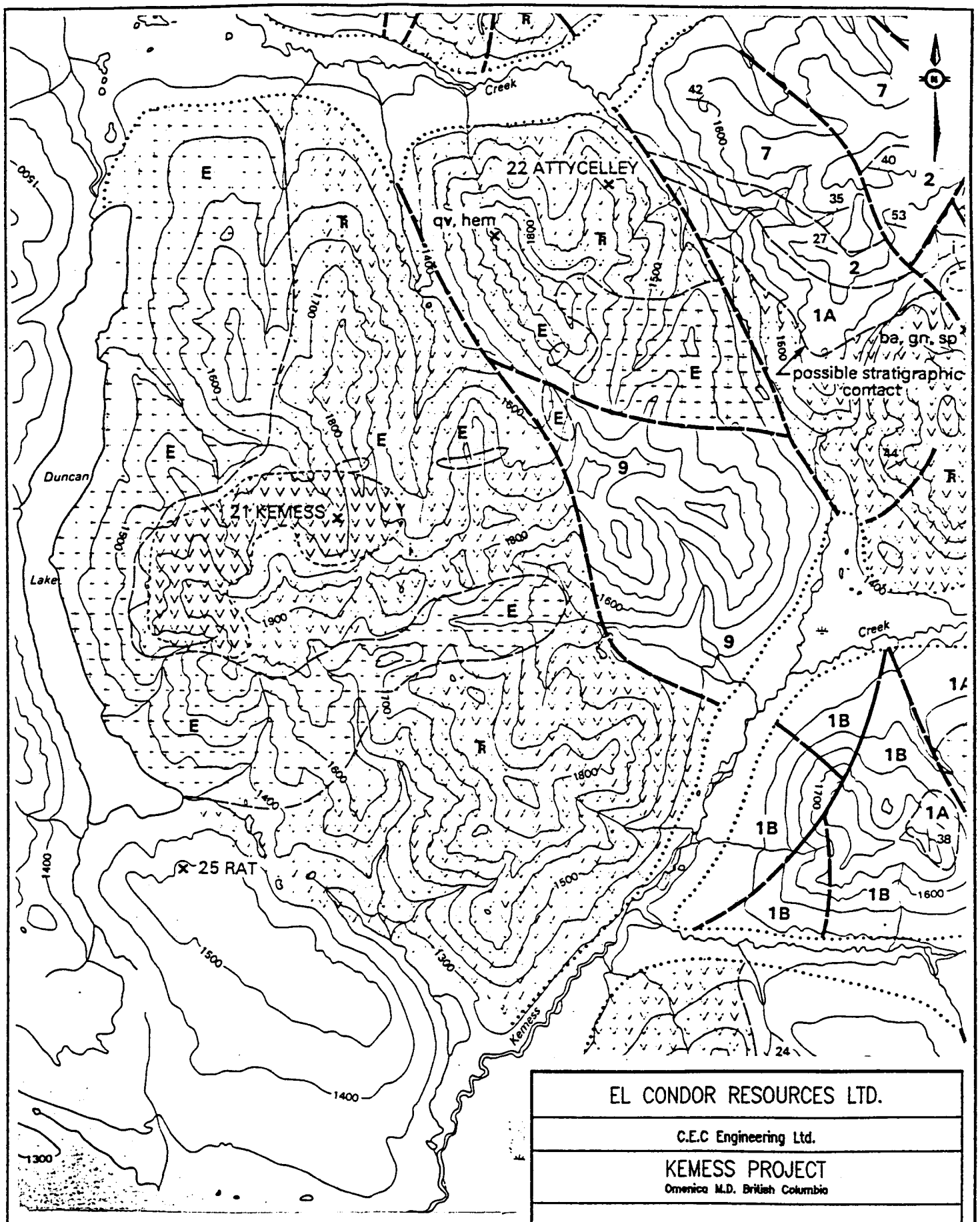
REGIONAL GEOLOGY

(most of the discussion of regional geology is adapted and abridged from Copeland and Blanchflower, 1990).

Lithologic Succession

The Toodoggone District lies within the eastern margin of the Intermontane Belt. It is underlain by a northwesterly trending belt of Palaeozoic to Tertiary sediments, volcanics and intrusives covering an area 90 km by 25 km (Figure 3). The supracrustal rocks are briefly described in Table 2.

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 district, monzonitic and quartz feldspar porphyritic dykes may be feeders to the Toodoggone Volcanics. The intrusive rocks are briefly described in Table 3.



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C.E.C Engineering Ltd.		
KEMESS PROJECT Omenica M.D. British Columbia		
REGIONAL GEOLOGY		
SCALE: 1:50,000	DRAWN BY: dbbos consulting	DISK FILE: LP-GRID2
DATE: Feb. 1991	NTS: 94 E/2	FIGURE: 3

PLEISTOCENE AND RECENT

Q — UNCONSOLIDATED GLACIAL, FLUVIOGLACIAL, ALLUVIAL, AND COLLUVIAL DEPOSITS

CRETACEOUS

UPPER CRETACEOUS

SUSTUT GROUP (TANGO CREEK FORMATION)

K — POLYMICTIC CONGLOMERATE, SANDSTONE, SHALE, CARBONACEOUS MUDSTONE

JURASSIC

LOWER AND (?) MIDDLE JURASSIC

"TODDOGGONE VOLCANICS" = (?) HAZELTON GROUP

9 — UNDIVIDED: PREDOMINANTLY GREY, GREEN, PURPLE AND ORANGE-BROWN HORNBLENDE PLAGIOCLASE AND PLAGIOCLASE PHYRIC ANDESITE PORPHYRY FLOWS, TUFFS, BRECCIA, SOME LAHAR, CONGLOMERATE, GREYWACKE, SILTSTONE, RARE RHYOLITE-PERLITE. INCLUDES SOME DYKES AND SILLS

LOWER TO MIDDLE JURASSIC

"TODDOGGONE VOLCANICS" (CARTER, 1972)

"GREY DACITE"

8 — DARK TO PALE GREY OR GREEN QUARTZOSE BIOTITE HORNBLENDE PLAGIOCLASE ASH FLOWS OF ANDESITIC AND RARELY DACITIC COMPOSITION. VARIABLY WELDED WITH LOCALLY WELL-DEVELOPED COMPACTION LAYERING; CONTAINS ABUNDANT GREY DACITE AND RARE GRANITIC CLASTS; OUTCROPS ARE COMMONLY BLOCKY AND STRONGLY JOINTED — 182 ± 8, 183 ± 8 Ma (GSC) HORNBLENDE

8A — POLYMICTIC CONGLOMERATE WITH ABUNDANT TAKLA AND GREY DACITE CLASTS IN A QUARTZOSE SANDSTONE MATRIX

8B — GREYWACKE, CONGLOMERATE DERIVED ENTIRELY FROM GREY DACITE

TODDOGGONE CRYSTAL ASH TUFFS AND FLOWS

7 — RECESSIVE, GREY, MAUVE, PURPLE QUARTZOSE PLAGIOCLASE CRYSTAL TUFF, LAPILLI TUFF, AND BRECCIA, WITH LESSER AGGLOMERATE, LAHAR, AND EPICLASTIC BEDS; INCLUDES SOME WELDED TUFFS AND PYROXENE HORNBLENDE FELDSPAR PORPHYRY FLOWS WHICH ARE LOCALLY DOMINANT; SOME MEMBERS CONTAIN NO QUARTZ. PINK WEATHERING WHERE LAUMONTITE IS ABUNDANT — 189 ± 8 Ma HORNBLENDE

7A — *EPICLASTIC RED BEDS* — ARKOSIC SANDSTONE, SILTSTONE, CONGLOMERATE, AND SLIDE DEBRIS; CONTAINS SOME CRYSTAL TUFF

TUFF PEAK FORMATION

6 — PALE PURPLE, GREY, AND GREEN BIOTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS; SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND PLUGS, SOME CRYSTAL AND LAPILLI TUFF — 197 ± 7 Ma BIOTITE, 200 ± 7 Ma HORNBLENDE

6A — CONGLOMERATE OR LAHAR DERIVED FROM UNITS 6 AND 6B, WITH GRADED AND CROSSLAMINATED MUDSTONE AND SANDSTONE INTERBEDS; DEBRIS FLOWS, LAPILLI AND CRYSTAL TUFFS

6B — FLOWS SIMILAR TO UNIT 6 BUT CONTAINING SPARSE ORTHOCLASE MEGACRYSTS

McCLAIR CREEK FORMATION

5 — PURPLE, LAVENDER, GREY, RARELY GREY-GREEN, "CROWDED" FINE TO MEDIUM-GRAINED PLAGIOCLASE PORPHYRITIC FLOWS; INCLUDES SOME LAPILLI TUFF, BRECCIA, AND MINOR EPICLASTIC BEDS

5A — INTRUSIVE DOME WITH AUTOBRECCIATED CARAPACE AND FLANKING BRECCIA

MAFIC FLOW AND TUFF UNIT

4 — *BASALT FLOWS*—THIN BEDDED, PURPLE TO DARK GREEN, COMMONLY EPIDOTIZED, FINE-GRAINED PYROXENE BASALT FLOWS AND TUFFS; INCLUDES SOME SILLS AND DYKES

4A — PURPLE TO MAUVE, MEDIUM-GRAINED PORPHYRITIC BASALT; LOCALLY MAUVE TO PINK, ZEOLITIZED WITH LAUMONTITE, POSSIBLE INTRUSIVE (LACCOLITH)

4B — LAPILLI, CRYSTAL, AND ASH TUFF; WELL BEDDED, INCLUDES MINOR THINLY BEDDED SANDSTONE AND RARE CALCAREOUS SILTSTONE (MARL), TOTALLY OR IN PART EQUIVALENT TO UNIT 7

4C — PYROXENE BIOTITE HORNBLENDE PORPHYRY FLOWS WITH TRACES OF QUARTZ AND K-FELDSPAR; INTERBEDDED MINOR BRECCIA AND LAPILLI TUFF, TOTALLY OR IN PART EQUIVALENT TO UNIT 8

LOWER TO MIDDLE JURASSIC *(CONTINUED)*

"TODDOGGONE VOLCANICS" (CARTER, 1972) *(CONTINUED)*

LAWYERS—METSANTAN QUARTZOSE ANDESITE

3 — GREEN TO GREY QUARTZOSE PYROXENE (?) BIOTITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS AND TUFFS. QUARTZ CONTENT RANGES FROM NEGLIGIBLE TO ABOUT 3 PER CENT IN THE NORTH FLOWS PREDOMINATE WITH LOCAL FLOW BRECCIA, LAPILLI TUFF, AND RARE WELDED TUFF UNITS; TOWARD THE SOUTH ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS. THE UNIT CONTAINS EXTENSIVE ZONES OF EPIDOTIZED, PYRITIC ROCK WITH CHARACTERISTIC SALMON, PINK, AND ORANGE PLAGIOCLASE CRYSTALS

MOYEZ CREEK VOLCANICLASTICS

2 — CONGLOMERATE WITH SOME GRANITIC CLASTS, GRADED, CROSS-BEDDED GREYWACKE, WELL-BEDDED CRYSTAL TUFF, EPICLASTIC SEDIMENTS; LOCAL LAMINATED CALCAREOUS SILT (MARL), RARE THIN LIMESTONE AND CHERT; LOCAL COARSE LANDSLIDE DEBRIS AND LAHAR, IN PART OR TOTALLY EQUIVALENT TO UNIT 8A

2A — CRYSTAL TUFFS IN THIN, WELL-LAYERED UNITS; SOME EPICLASTIC SANDSTONE AND MUDSTONE; RARE PLANT FRAGMENTS IN SOME BEDS; MINOR LAPILLI TUFF

ADOOGGATCHO CREEK FORMATION

1 — PALE REDDISH GREY TO DARK RED-BROWN QUARTZOSE BIOTITE HORNBLENDE PHYRIC ASH FLOWS; THE ROCKS CONTAIN MINOR SANIDINE AND RARE AUGITE. WELDING IS WIDESPREAD AND RANGES FROM INCIPIENT TO EUTAXITIC; LOCALLY ORANGE TO BROWN VITROPHYRIC CLASTS ARE COMMON. INCLUDES LAPILLI TUFF AND BRECCIA UNITS AS WELL AS MINOR LAYERED GROUND SURGE DEPOSITS

1A — CRYSTAL ASH TUFF, LAPILLI TUFF, AND RARE AGGLOMERATE WITH INTERSPERSED EPICLASTIC BEDS, TUFFACEOUS SEDIMENTS AND MINOR CONGLOMERATE THAT LOCALLY CONTAINS GRANITIC CLASTS; MINOR HORNBLENDE PLAGIOCLASE PHYRIC FLOWS FORMING SINGLE OR THIN COMPOSITE FLOW UNITS

1B — *QUARTZOSE PLAGIOCLASE PORPHYRY*— JOINTED, DOMAL INTRUSION (?) OF HOMOGENEOUS-APPEARING GREY TO GREEN, CHLORITIZED AND EPIDOTE-ALTERED ROCK CONTAINING ABUNDANT INCLUSIONS OF TAKLA VOLCANICS AND RARE METAMORPHIC ROCK CLASTS

TRIASSIC

UPPER TRIASSIC

TAKLA GROUP

T — DARK GREEN AUGITE PORPHYRY BASALT FLOWS AND BRECCIAS WITH LESSER FINE-GRAINED ANDESITE TO BASALT FLOWS AND MINOR INTERBEDDED SILTSTONE, TUFFACEOUS SEDIMENTS, AND CHERT. CONTAINS LIMESTONE LENSES THAT MAY BE PART OF THE "ASITKA GROUP"

PALEOZOIC

PERMIAN

P — ASITKA GROUP?

PREDOMINANTLY LIMESTONE (INCLUDING MARBLE AND MINOR SKARN) WITH SOME ARGILLITE, BLACK SHALE, AND CHERT. UNITS COMPOSED OF LIMESTONE, CHERT, ARGILLITE, AND BASALT (IPv, c) MAY BE, IN PART, OR TOTALLY TAKLA GROUP

INTRUSIVE ROCKS

JURASSIC

LOWER JURASSIC (DYKES, SILLS, AND SMALL PLUGS)

A — BASALT

B — AUGITE HORNBLENDE PORPHYRY — BASALTIC STOCK, DOMAL INTRUSION (OR TAKLA INLIER)

C — BIOTITE HORNBLENDE DIORITE/GABBRO

D — PYROXENE PLAGIOCLASE PORPHYRY

LOWER TO MIDDLE JURASSIC (DYKES AND STOCKS)

E — QUARTZ MONZONITE, GRANODIORITE—MEGACRYSTIC IN PART; MINOR SYENITE OR QUARTZOSE SYENITE ALONG CONTACTS

E1 — GRANODIORITE, QUARTZ DIORITE — MEDIUM GRAINED, PORPHYRITIC, FOLIATED IN PART

F — FELDSPAR PORPHYRY, HORNBLENDE FELDSPAR PORPHYRY — DYKES AND PLUGS; RARE QUARTZ FELDSPAR PORPHYRY

SYMBOLS

MINERAL OCCURRENCE (MINERAL INVENTORY FILE NUMBER) — × 43

MINERAL PROSPECT (MINERAL INVENTORY FILE NUMBER) — ⚒ 34

EXPLORATION CAMP — ⊖

PLACER WORKINGS

PARK BOUNDARY

ROAD

MAIN OUTCROP AREAS

FAULT (OBSERVED, INFERRED)

THRUST OR REVERSE FAULT (OBSERVED, INFERRED)

BEDDING, LAYERING, FOLIATION (HORIZONTAL, INCLINED, VERTICAL)

FOLD AXES

FOSSIL LOCALITY (PLANT DEBRIS) — Ⓕ

RADIOMETRIC DATE SAMPLE SITE, AGE IN Ma — Ⓐ104

VOLCANIC VENT

HYDROTHERMAL ALTERATION

FERRICRETE, QUATERNARY FERRUGINOUS BRECCIA — (W)

SILICA, CLAY MINERALS ± ALUNITE, BARITE — (S)

CLAY MINERALS ± ALUNITE, SILICA, HEMATITE — (I)

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KEMESS PROPERTY

REGIONAL GEOLOGY

LEGEND

Plan Compiled

March 28, 1990

FIG 4

Table 2: Stratigraphy

Quaternary

Pleistocene and Recent

unconsolidated till, fluvium, alluvium, colluvium

<< UNCONFORMITY >>

Cretaceous

Upper Cretaceous - Sustut Group

conglomerate, sandstone,shale, carbonaceous mudstone

<< UNCONFORMITY >>

Jurassic

Lower to Middle Jurassic

Hazelton Group		Toodoggone Volcanics
andesite porphyry flows, tuffs, breccia, lahars, conglomerate, greywacke, siltstone	FAULT	airfall ash tuff, ash flows, coarse pyroclastics, lava flows, epiclastic sedimentary rocks
<<UNCONFORMITY>>		<<STRUCTURALLY CONFORMABLE>>

Triassic

Upper Triassic - Takla Group

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

Paleozoic

Permian - Asitka Group

limestone, lesser argillite, black shale and chert

Proterozoic - Ingenika Group

sandstone, siltstone, shale, minor conglomerate and limestone

Table 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, which includes 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.

PROPERTY GEOLOGY

In a general sense, the local geology on the Kemess South claims is very simple. Mineralization is hosted within a relatively flat lying body of quartz monzonite and extends a short distance into Takla volcanics and sediments in the footwall. A veneer of overburden from 3 metres to 24 metres thick and averaging 10 metres thick covers the quartz monzonite.

Lithologic Units

QUATERNARY - RECENT

Unconsolidated Deposits

Unconsolidated deposits were not examined as part of the present project. They are believed to consist of glacial deposits with a veneer of colluvium. The direction of glacial movement has not been addressed.

Ferricrete

Ferricrete as used here refers to material comprised of mineral grains, fragments of rock and even fragments of quartz veins in a cement of iron oxides. It is formed from unconsolidated deposits cemented by iron oxide precipitates. The cement is locally partly calcareous. Fragments vary in size and nature according to the original soil or sediment horizons. The fragments make up anywhere from 10% to 75% of the ferricrete.

LOWER - MIDDLE JURASSIC

Quartz Monzonite

Quartz monzonite is used here as a general term to describe rocks which include quartz monzonite, granodiorite, quartz diorite and even some syenite.

The intrusion consists of porphyritic, felsic rocks. The dominant phenocrysts are plagioclase, ranging in size from 1 to 4 millimetres and forming between 20% and 30% of the bulk mineralogy. Quartz phenocrysts are less abundant, under 10%, and usually smaller, up to half a millimetre.

Sixty percent or more of the quartz monzonite consists of a microgranular groundmass of equant, intergrown crystals of k-feldspar, plagioclase feldspar and quartz.

Alteration, particularly an influx of quartz and potassium feldspar, makes precise classification of the protolith difficult either macroscopically or microscopically.

UPPER TRIASSIC - TAKLA GROUP

Volcanics

Most of the volcanic rocks encountered in drilling are presumed to have been flows, with compositions in the basalt to andesite range. Their fine grain size, and a strong alteration overprint, obscure their primary mineralogy.

A few crystal tuff units and lapillistones exist. They are not volumetrically significant and in most instances are associated with sedimentary units.

Sediments

Sedimentary rocks encountered in drill holes include chert, cherty tuff, argillite and graphitic argillite. At least two horizons of sediments exist, but correlation from drill hole to drill hole is difficult. The sediments are evidently interlayered with the volcanic flows.

Geological Structure

Style

Most of the deformation in rocks at South Kemess has taken the form of brittle fracturing; on a large scale as faulting and a smaller scale as jointing.

Faulting

The myriad fractures, faults and breccia zones are difficult to correlate from drill hole to drill hole. The one exception to this, easily correlated because of the lithologic markers, is a fault that is consistently present at the base of the quartz monzonite.

Jointing

Several generations of veins and stockworks, plus many later, unhealed joints and fractures, evidence a long history of fracturing. No oriented core is available, so the geometry of the joint sets is not known. Clearly though, structural preparation was significant in forming a plumbing system for hydrothermal fluids to penetrate throughout the lithologic assemblage.

Folding

There is nothing yet to suggest that folding played a significant role in the local geological history.

Alteration

With the possible exception of cherts and argillites in the Takla strata, all of the rocks have been altered. There is a complex overprinting of alteration assemblages and the description provided here is simplified. The alteration assemblages are listed in approximate time sequence starting with the earliest:

Sericitization of Plagioclase

Most of the quartz Monzonite contains between 20% and 30% plagioclase phenocrysts, 1 to 4 mm in largest dimension. Almost universally, this plagioclase is altered to a soft, grey-green waxy substance, an aggregate of fine grained sericite and clays.

Having once been altered, these pseudomorphs after plagioclase apparently became almost impervious to further alteration. They have survived in this form, relatively unchanged.

Quartz Veinlets

In most instances, quartz is fracture filling, forming veinlets and veins. Quartz veinlets form a stockwork that makes up anywhere from 5% to 30% of the rock over tens of metres and as much as 70% of the rock over a few metres. The most common quartz veinlets are a few millimetres to a few centimetres thick.

Chlorite

Much of the fault gouge noted throughout core from Kemess South has a chloritic component.

Calcite Veining

Calcite veinlets are widespread throughout, cutting many other alteration assemblages. Quartz-calcite veins are common enough, but most prove to be quartz veins, fractured and invaded by calcite. Other minerals sometimes associated with calcite are chlorite and hematite.

Carbonate Veining

Carbonate veining is used here to described veins containing a carbonate mineral that is not calcite. In most instances it is probably iron carbonate. Like the calcite veins, carbonate veins are late. Their age relation with calcite is unknown.

Gypsum

Late veinlets of gypsum, though not volumetrically important, are present throughout the lithologic assemblage.

Zeolites

Some of the late veinlets contain what are probably zeolite minerals. Like gypsum, they are widespread but not volumetrically important.

Mineralization

The sulphide mineral assemblage is, superficially at least, very simple at the Kemess South. Pyrite and chalcopyrite are disseminated in both quartz veins and the altered host quartz monzonite.

1990 DIAMOND DRILLING

The 1990 diamond drilling was managed by C.E.C. Engineering Ltd. of Vancouver, on behalf of El Condor Resources Ltd.

The drilling, done by J.T. Thomas Diamond Drilling Ltd. of Smithers, B.C. was carried out between July 20 and Dec. 15, 1990.

The pertinent diamond drill hole data follows in Table 4.

Table 4: Drill Hole Data

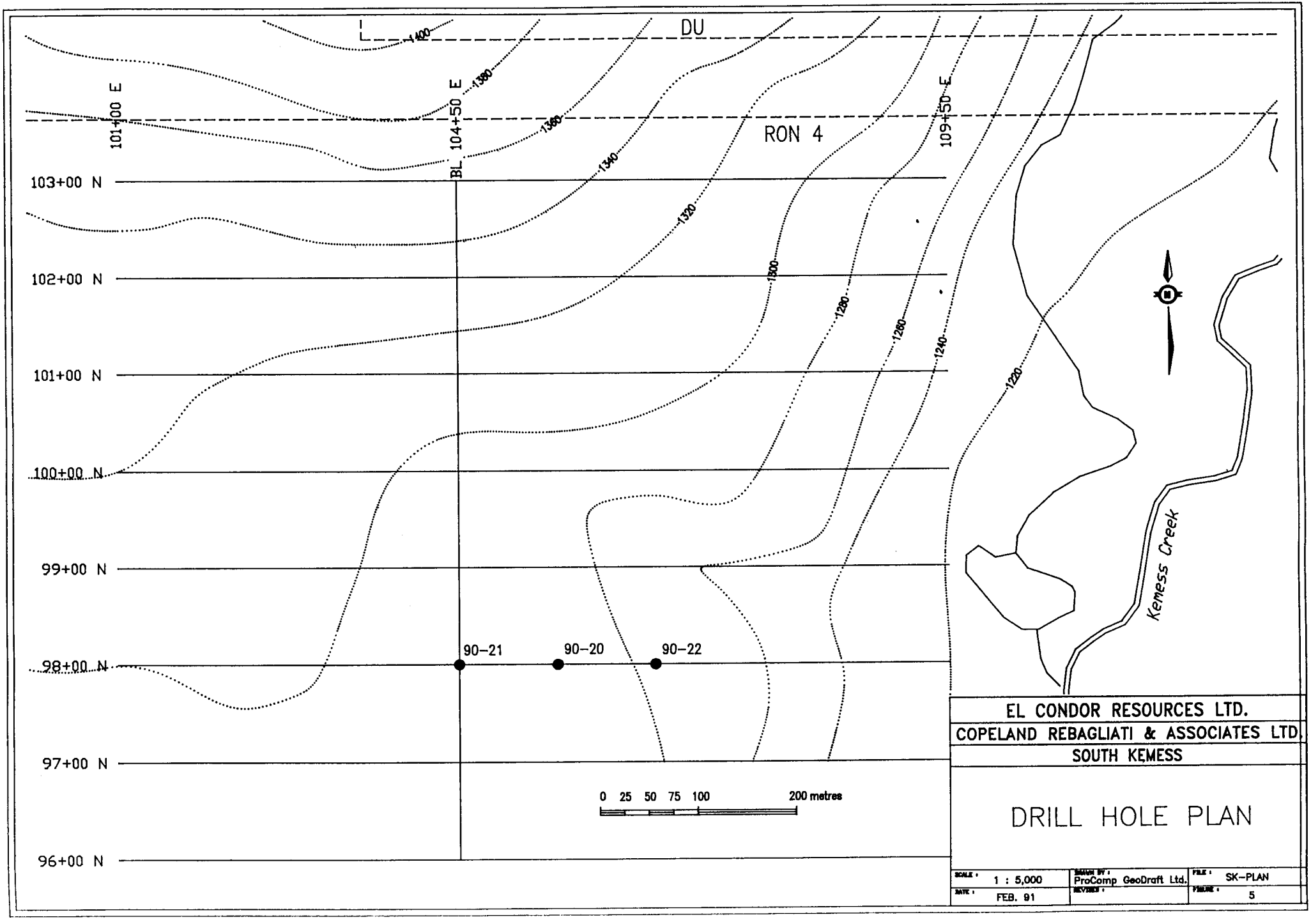
Drill Hole	Coordinates		Azimuth	Declination	Length(m)
	N.	E.			
DDH90-20	9800	10550	-	-90°	154.53
DDH90-21	9800	10450	-	-90°	148.44
DDH90-22	9800	10650	-	-90°	138.48

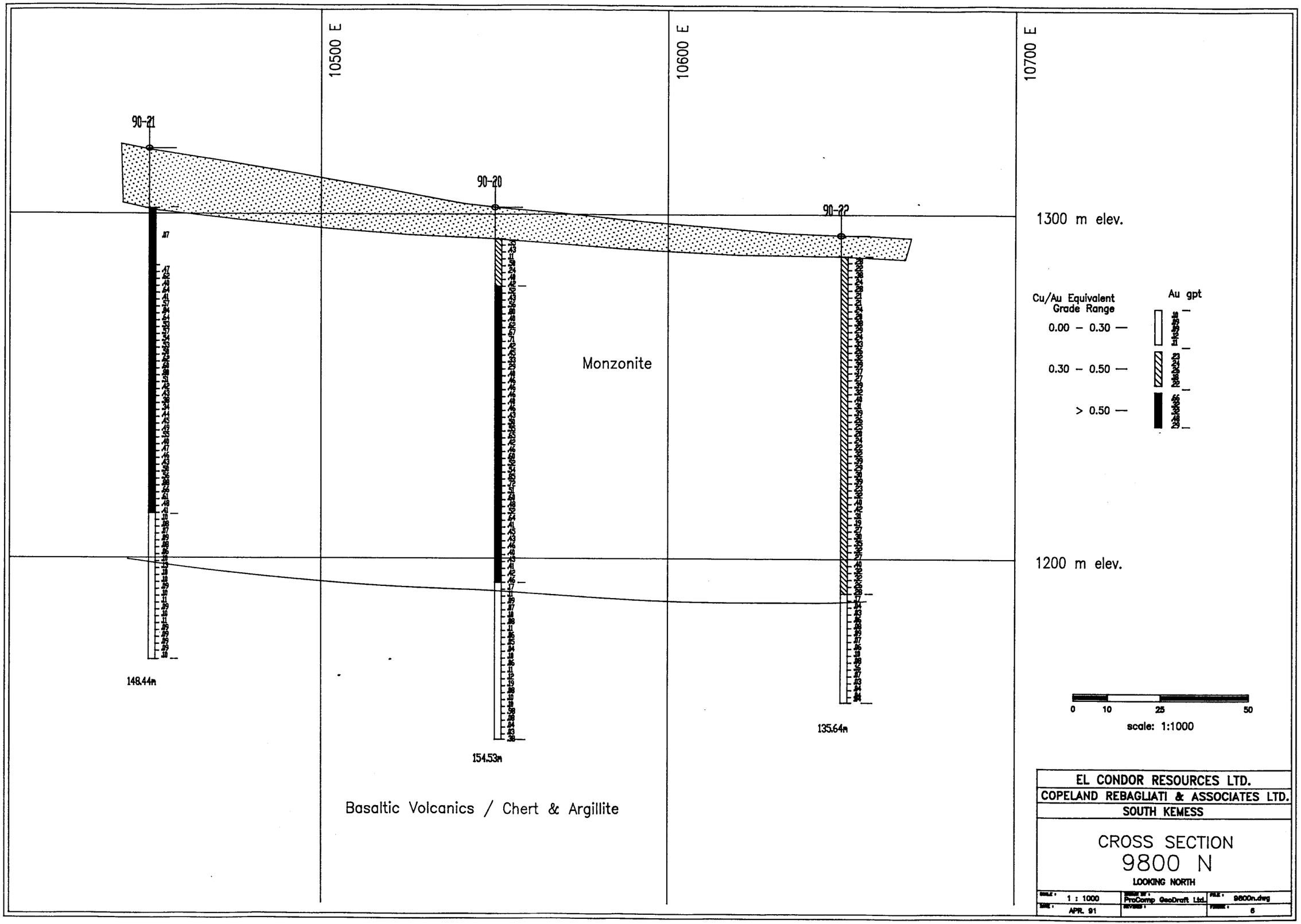
The NQ size diamond drill core was logged and sampled at 2.00 metre intervals. All of the drill core was split and one-half was shipped to Min-En Laboratories Ltd. in Smithers, B.C. for crushing, grinding and pulp preparation. The remaining split drill core was properly labelled, stacked and stored at the camp site. A total of 190 prepared pulps were later shipped to the assay facilities of Min-En Laboratories Ltd. in North Vancouver, B.C. for Au assay and 12 element ICP analysis.

The geologic logs accompany this report in Appendix I while Au assay and ICP data are given in Appendix II. The location of the drill hole collars are shown in Figure 5, and a geological cross-section has been plotted in Figure 6. The analytical procedures utilized by the assay laboratory accompany this report as Appendix III.

DISCUSSION OF RESULTS

The diamond drilling tested a number of geological, geochemical and geophysical anomalies. Drill holes DDH 90-20, 90-21 and 90-22 intersected significant widths of sulphide mineralization, with alteration zones and rock type typical of a porphyry Cu-Au deposit.


DU
RON 4
BL 104+50 E
101+00 E
109+50 E
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
103+00 N
102+00 N
101+00 N
100+00 N
99+00 N
98+00 N
97+00 N
96+00 N
90-21
90-20
90-22
0 25 50 75 100 200 metres
Kemess Creek
EL CONDOR RESOURCES LTD.
COPELAND REBAGLIATI & ASSOCIATES LTD.
SOUTH KEMESS
DRILL HOLE PLAN
SCALE : 1 : 5,000
DRAWN BY : ProComp GeoDraft Ltd.
FILE : SK-PLAN
DATE : FEB. 91
REVISED :
FIGURE : 5



EL CONDOR RESOURCES LTD.

COPELAND REBAGLIATI & ASSOCIATES LTD.

SOUTH KEMESS

CROSS SECTION

9800 N

LOOKING NORTH

SCALE : 1 : 1000	DRAWN BY : ProComp GeoDraft Ltd.	FILE : 9800n.dwg
DATE : APR. 91	REVISED :	FIGURE : 6

CONCLUSIONS AND RECOMMENDATIONS

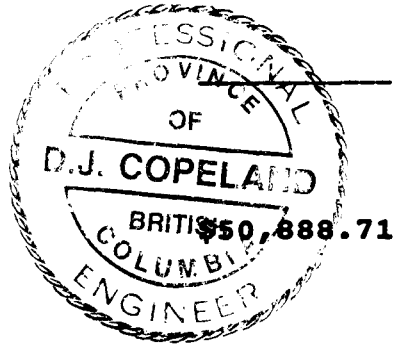
The limits of the mineralized zone are at present unknown. All of the IP anomaly as presently outlined and all extensions and new zones should be drilled to further define the lateral extent of the mineralized zone.

A mapping and sampling program should be undertaken on the entire Kemess property.

The IP and Magnetometer geophysical grid surveys done in November of 1990 should be extended to fully delineate the gold-copper bearing sulphide system.

STATEMENT OF COSTS

Personnel Expenses:	
Project Geologist 12 days @ $300.00 per day	$ 3600.00
Sampler 10 days @ $125.00 per day	$ 1250.00
J.T. Thomas Diamond Drilling Ltd. 3 NQ drill holes totalling 437.45 metres. @ $88.35 per metre	$ 38,648.71
Drill site preparation, John Deere 550 bulldozer	340.00
Fixed wing aircraft support - Central Mtn. Air	500.00
Helicopter support	720.00
Assay and analytical expenses - Min-En Labs 190 samples * $17.00 per sample	3230.00
Camp Costs	2000.00
Report Preparation	600.00
TOTAL COST	**$50,888.71**



Drill core logger

NCG

PETER A. RONNING
M.Sc., P.Eng.

NEW CALEDONIAN GEOLOGICAL CONSULTING

Drill core logger

TO: Rob

FROM Jim, S.I.B

I, JAMES A. McCrea of 6992 - 143A ST, SURREY BC
V3S 0N3 Do Hereby Certify that:

(or G.E.C.)

1. I am a Geologist in the employ of E2 Condor Resources LTD, with office at 700 - 1177 W. Hastings ST.

2. I am a graduate of the University of Alberta with a Bachelor of Science (Specialization) in Geology, 1986.

3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta, Geologist in Training.

4. I have practised my profession continuously since graduation.

5. I have not directly or indirectly received nor do I expect to receive any interest, direct or indirect, in the property of E2 Condor Resources LTD or any affiliate, or have any beneficial or contingent interest in any securities of E2 Condor Resources LTD, or any affiliate.

James A McCrea B.Sc

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.

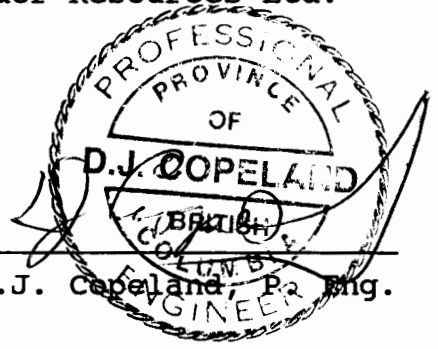
2) I am a graduate in Economic Geology with a Bachelor of Science from the University of British Columbia in 1970.

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 diamond drilling 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

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APPENDIX I

Diamond Drill Geological Logs

N C G

DRILL CORE LOG - Cover Page

Logged by: Start Date: Dec 2/90 Completion Date: Dec 4/90

Drill Hole No.: 90-20
Page 1 of 17
Project: South Kemess

Contractor Information

Drill Contractor: J. T. Thomas
Foreman: G. Dyck
Hole Start Date: 26/11/90
Hole End Date: 27/11/90

Drill Hole Information

Size of Core: NQ
Location:
Property Name: South Kemess
Claim Name:
Grid Name:
Zone Name:
Northing: 9,800
Easting: 10,550
Elevation:
Survey Method (eg. compass, altimeter): grid ref

Drill Hole Orientation Surveys:

Depth	Azimuth	Plunge	Method
collar		-90	clino
154.53		-90	acid

Final Depth of Hole: 154.53

Symbols and Abbreviations Used in Log

Sauss - Saussoritized, py - pyrite, cp - chalcopyrite, ser - sericite, mt - magnetite, Kspar - potassium feldspar, moly - molybdenite, QT - Quartz, vn - vein, cbt - carbonate, G.M. - groundmass, V.F.g - very fine grained, He - Hematite, Al - Albite

Sample Shipment Information

Sample Numbers	Date Shipped	Shipment No.	Shipped Via	Laboratory	Date Results Received	File Number(s)
51919 - 51962						
51964						

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-20
Page 2 of 17 | From 0 To 10
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
0									
01									
02									
03									
04									
05					CASING IN O.B.				
06					NO CORE RECOVERY.				
07									
08									
09	9.14								
	2.13	.63	30		9.14 - 9.85	cored over burden. pebbles of Quartz, volcanics + oxidized intrusive (see below).			9.14 - 5.1919
10									

N C U
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 80-20
Page 3 of 17 ; From 10 To 20
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
10	2.13	63	30		9.85 - 109.86	Monzonite	Sauss play - 30% chl-5% py-tr-2%		51919
						as ↑	QTVn - 1-10% bi-5-10%		
							Al - 5-40% ST-Trace%		
11	11.28					Med grained intrusive w/ ST. alt'n, chl frac controlled py - diss, Al - perv + frac controlled; bi primary + secondary			11
					9.85 - 39.68		QTVn - 3%		
						oxidized and weathered zone. py + mt oxidized to He, Kspar	He - 2%, Clay - 20% *None noted.*		
12						weathered to clay(?)	QTVn - 2%		51920
	3.05	1.46	48		-9.85 - 16.30		He - 2%, clay - 30%		
13						Unit weathered + oxidized, very broken, poor recovery. QTVn weathered, No sulfides			13
14	14.33								51921
15									15
16	3.05	2.49	82						51922
17							ST - 10%		17
	17.47				-17.95 - 17.97	frac w/ ST.			
18							QTVn - 10%		51923
					-18.02 - 18.15	Cross cutting QTVn.			
19	3.05	2.59	85						19
									51924
20									

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM. Date: Sampled by: Date:

Drill Hole No. 80-20
Page 4 of 17 ; From 20 To 30
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
20	3.05	2.59	85						51924
	20.42								
21									21
							QTVn - 4%		
22	3.05	2.55	84		-21.94-22.80	increase in QTsw	- No sulfides noted		51925
23									23
	23.47								
24									51926
25	3.05	2.99	98						25
26									51927
	26.52								
27									27
28	3.05	2.48	81						51928
29					-29.52-29.34	fault w/ weathered	Clay-20%, Hc-stain + oxidized gouge - unit very broken.		29
	29.57								
30									51929

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 5 of 17 | From 30 To 40
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
30					-30.49-32.06	massive QTVn w/ He in frac	QTVn-90%, He-2%	None noted.	51929
31	3.05	2.83	93						31
32					-32.06-38.10	Oxidized + weathered intrusive w/ QTVn	QTVn~4%, He-2% Clay-10%	none noted	51930
	32.61								
33									33
34	3.05	2.98	98						51931
35									35
	35.66								
36									51932
37	3.05	2.84	93						37
38					-38.10-39.68	Weathered + oxidized section w/ QTVn	He-2% Clay-10% QTVn-1%	None noted.	51933
	38.71								
39							QTVn-1%, Al-2% Clay-5%, He-Tr		39
40	3.05	2.43	96		39.68-41.60	Weathered intrusive w/ weak QTVn + Py. Al-frac related.		Py-0.75% He frac controlled	51934

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 80-20
Page 6 of 17 ; From 40 To 50
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
40									51934
	3.05	2.93	96						
41					41.60 - 42.37	perv albitization related to QTVn.	Al - 10% QTVn - 3%	py - 1%	41
	41.76								
42					42.37 - 59.60	Albitization locally pervasive + related to He in open frac, chl - frac related.	QTVn 1-3 % Al - 2% 30% He-Tr chl - 2%	py - 1%, QTVn, py - diss + vn	51935
43									43
	3.05	3.04	100		-42.37 - 46.32	weak albitization associated w/ QTVn	Al - 2%, QTVn - 1%	py - 1%	
44									51936
45	44.81								45
46	3.05	2.99	98		-46.32 - 41.78	albitization associated w/ QTVn.	QTVn - 4%, Al - 20%	py - 1%	51937
47					-46.78 - 34.16	Albitization associated w/ QTVn	QTVn - 2%, Al - 5% He-Tr	py - 1%	47
48	47.85								51938
49	3.05	2.95	97						49
50					-50.18 - 50.24	large QTVn w/ He + py	QTVn - 20%, He - 3%	py - 4%	51939

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 7 of 17; From 50 To 60
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
50	3.05	2.95	97						51939
51	50.90								51
52	3.05	2.89	95		-52.11-52.13	QTVn w/Al+chl	QTVn-10%, Al-10% chl-5%	py-2%	51940
53									53
54	53.95				-54.16-54.36	bcally perv strait'h.	ST-10%	py-1%	51941
					-54.36-59.60	perv albitization related to QTVn. He in frac in QTVn chl in open frac.	QTVn-3%, Al-20% He-Tr, chl-2%	py-1%	55
55	3.25	3.00	98						51942
56									
57	57.00			frac 50°					57
58	3.05	3.00	99		-57.78	chl in frac.	chl-10%		51943
59					-59.60	frac w/ chl	chl-10%		59
					59.60-68.61	QTVn w/ Al, perv bi.	QTVn-3%, bi-5-15% Al-5-20%, cht-Tr.	py-1%, cp-Tr. py as vn+diss, cp in vn, cotasmmulm	
60	60.05				-59.60-61.50		bi-15%, Al-5%		51944

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 8 of 17; From 60 To 70
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
60	60.05								51944
61	3.05	3.00	98	QTVN 70°	-61.50-63.63	bi secondary, diss - al QTVN related.	bi-10%, Al-5%		61
62					-61.97-61.99	QTVN w/ py + cp	QTVN-20%,	cp-Tr, py-3%	51945
63	63.09				-62.52-63.05	QTVN w/ bi	bi-10%, QTVN-3%	py-1%	63
64	3.05	2.94	96		-63.63-64.60	Albitization associated w/ QTVN + QTVN w/ bi	QTVN-3%, Al-20% bi-10%	py-1%,	51946
65					-64.60-68.23	QTVN w/ al	bi-10%, Al-5%	py-1%	65
66	66.14			Frac 88°	-66.24-66.26	chl alt frac.	chl-20%	py-Tr	51947
67									67
68	3.05	3.01	99		-68.23-68.61	unit by bi + weak QTVN	bi-5%, Al-Tr. QTVN<1% Chl-10%	py-0.5%	51948
69	69.19				68.61-69.19	perv St + chl alt,	QTVN-5%, St-20% frac related.	py-1% cp-not noted.	69
70	3.05	2.83	93		69.19-90.94	QTVN w/ perv albitization + potassic alt'n (bi), chl as alt frac He frac relate in QTVN. py diss + in VN. chl after mafics(?)	QTVN-2-10%, bi-5-20% Al-Tr-20%, He-Tr Chl-5%	py-1%.	51949

DRILL CORE LOG

N C G
CEC ENG.

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 9 of 17 ; From 70 To 80
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Sample Number
70					-69.14-70.60		Q-vn-4%, Ch-5%, Al-20%	py-1%	51949
						QTVN w/ minor ch, bi secondary + diss, py diss + vn			
71	3.05	2.83	93		-70.60-73.90		QTVN-4%, bi-5%, Al-5%	py-1%	71
						weak albitization w/ QTVN. bi diss, py diss or in vn			
72	72.24								51950
73							chl-5%		73
					-73.60-73.90	chl after bi (?)	Hg-Tr, chl-5%, Al-20%	py-1%, cp-Tr	
					-73.90-79.90		QTVN-3%, bi-5%		
74	3.05	3.05	100			chl after mafics (possibly bi) perv albitization associated w/ QTVN			51951
						py diss or in vn, cp in QTVN.			
					-74.73-74.88		chl-20%	py-1%	
75	75.29					chl alt fault gouge (?) w/ chl frag + QTVN frag.			75
76									51952
77	3.05	2.92	96						77
78	78.33						chl-10%	py-Tr	51953
					-78.26-78.36	chl alt fault gouge <?			
79	3.05	3.01	99						79
					-79.90-80.36		chl-10%, QTVN-50%	py-1% cp-Not noted	
						large QTVN w/ chl alt margin.			
80						py as diss or clots in QTVN,			51954

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 19-20
Page 10 of 17 ; From 80 To 90
Project: South Keness

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Sample Number
80	3.05	3.01	99		-80.36 - 87.05	perv Albitization related to qtvn, chl locally, perv around frac. bi v f. diss, py diss or vn or clot. chl after mafics(?)	Al-20%, qtvn-4% He-Tr, chl-10%, bi-5%	py-1%	51954
81									81
	81.38				-81.36-81.38	perv chl alt'n around a fracture.	chl-10%		
82					-81.68-81.82	chl alt fault(?) gouge.	chl-20%		51955
	3.05	3.01	99	qtvn 40	-82.32-82.36	large qtvn	qtvn		
83					-82.36-82.56	perv chl alt'n around a frac.	chl-20%		83
84					-83.99-84.26	frac section w/ perv chl alt'n.	chl-20%	py-Tr	51956
	84.43								
85									85
86	3.05	2.70	88		-85.75-85.80	chl alt'n fault gouge.	chl-20%		51957
87					-87.05-89.24	albite related to qtvn, perv bi, ie as relicts in qtvn. py diss or vn.	Al-10%, qtvn-3% bi-10%, He-Tr	py-1%	87
	87.48								
88									51958
89	3.05	2.89	95		-89.24-90.63	perv secondary bi, pl related to qtvn, py diss + vn.	bi-20%, Al-10% qtvn-3%	py-1%	89
90									51959

DRILL CORE LOG

N C G
CEC ENG.

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 11 of 17) From 90 To 100
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Sample Number
90							Al-10%		51959
	90.53				90.63-90.94	QTVn w/ related Al,	bi-5% QTVn-1% perv bi, Py diss or vn	Py-1%	
91				fault	90.94-91.06	chl alt fault gouge.	chl-20%	Py-Tr	91
					91.06-92.12		chl-10% ST-10% QTVn-10%	Py-2% cp-NOT noted.	
92	3.05	2.73	89	20		QTVn w/ locally Py-diss	perv ST, chl after matics (bi), He in QTVn. bi-10%		51960
					92.12-100.23		Al-15%, QTVn-2% chl-10%, Cbt-Tr	Py-1%	
93						perv Albitization, bi. related to QTVn (secondary), chl locally perv. around fract. alte matics (?) cbt as mm vlts, Py diss or in vn.			93
	93.57				92.55-92.82	frac related perv	chl alt'n.		
94									51961
	3.05	3.02	99						
95									95
					95.25-95.40	large QTVn w/ Py.	QTVn	Py-2%	
96									51962
	96.62				96.75-96.81	perv chl alt'n related to a frac.	chl-10%	Py-1%	
97									97
					97.48-97.50	chl alt frac.	chl-10%		
98	3.05	2.93	96						51964
					98.46-98.50	chl alt frac.	chl-20%		
99				fault					99
	99.67				99.40-99.55		chl-20%	Py-Tr	
100	3.05	2.73	89	20		chl alt fault gouge			51965

DRILL CORE LOG

N C G
CEC ENG.

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 2 of 7 From 100 To 110
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Sample Number
100					100.23 - 101.00	frac segment w/ py	chl - 30%, chl alt'n.	py - Tr.	51965
101	3.05	2.73	89		101.00 - 109.47	The unit is a breccia(?) w/ cross cutting QTVn + weak silicification chl after mafics + frac controlled. py: dissem or vn. ST is pervasive near frac.	Al - 5%, QTVn - 4% chl - 10%, ST - 10%	py - 2%.	101
102									51966
103	102.72				-103.40 - 103.48	large QTVn w/ py	QTVn - 40%	py - 5%	103
104	3.05	2.97	97						51967
105					-105.27 - 105.33	chl related to frac.	chl - 20%	py - Tr.	105
106	105.77								51968
107	3.05	2.96	97						107
108				QTVn / 30°	-107.82 - 108.06	QTVn w/ py.	QTVn	py - 2%	51969
109	108.81				-108.92 - 109.20	ST alt'n locally perv.	ST - 10%	py - 1%	109
110		2.83	93		109.47 - 109.86	chl alt fault gouge w/ frag of QTVn, cbt vn, ST alt country rock frag + Jarosite stain.	ST - 10% chl - 30%, cbt - 3% QTVn - 10%, Jarosite - Tr	py - 1%	51970

DRILL CORE LOG

N C G
CEC ENG.

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-20
Page 13 of 17 | From 110 To 120
Project: South Keness

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Sample Number
110					109.85 - 154.53	Basalt.	Kspar - 3%, QTVN - 1%, cbt - 2%, mt. 0.5%, chl - 8%	py - 2%	51970
	3.05	2.83	93			Dark green volcanic w/ weak perv Kspar alt'n, cross cutting QT + cbt vn, chl filled amygdules (3%) + locally perv chl alt'n related to frac or faults, mt in QTVN, py diss or in vn.			
111					109.95 - 109.98	locally perv chl alt'n	chl - 20% related to frac	py - 1%	111
112	111.86				111.05 - 112.04	chl alt fault gouge w/ cbt vn + vn frag. country rock frag.	chl - 30%, cbt - 2%	py - 1%	51971
113	3.05	3.04	100	frac 15°	112.66 - 112.76	perv chl alt between frac	chl - 20%	py - 1%	113
					112.82 - 113.90	QTVN w/ mt.	mt - 1%, QTVN - 1%		51972
114									
115	114.91				114.91 - 114.95	QTVN w/ py.	QTVN	py - 5%	115
					115.97 - 116.96	unit broken + chl alt	chl - 20%	py - 2%	51973
116	3.05	2.90	95						117
117							Al - 5%.		
118	117.96				117.81 - 117.62	Unit bleached - Albite?			51974
119	3.05	2.99	98	30° fault			chl - 30%	py - Tr.	119
120					119.76 - 119.98	chl alt fault gouge			51975

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 14 of 17 From 120 To 130
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
120	3.05	2.99	98						51975
121	121.01								121
122	3.05	2.98	98						51976
123							cbt - 2%		123
					123.30 - 123.38	Unit frac, frac w/ cbt.			51977
124	124.05								
125									125
126	3.05	3.02	99						51978
							chl - 8%		
					126.40 - 126.25	chl filled amygdules			
127	127.10								127
					128.60 - 133.70		Ksp - 10%	py - 2%	
							Qtvn - 2%, Mt - 0.5%		
						perv ksp alt'n w/ qt-py vn.			
128									51979
129	3.05	2.99	98						129
130	130.15								51980

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 93-20
Page 15 of 17 | From 130 To 140
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
130	130.15								51980
131									131
132	3.05	2.91	95						51981
133	133.20								133
134					133.70 - 145.28		mt - Tr Kspar - 3%, cbt - 2%, py - 2% Qtz - 1%, chl - 10%		51982
135	3.05	2.94	96	qtvn / frac / 25°	134.36 - 134.56	perv weak Kspar alt'n, cross cutting qtvn + cbt vn, chl as filled amygdules + locally perv alt'n around frac. mt w/p in qtvn. qtvn + frac(?) w/ chl alt'n.	chl - 20%, qtvn - 20% py - 1%		135
136	136.25								51983
137									137
138	3.05	2.90	95						51984
139	139.29				139.15 - 139.18	chl alt frac.	chl - 20%		139
140									51985

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JN Date: Sampled by: Date:

Drill Hole No. 90-20
Page 16 of 17; From 140 To 150
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
140									
	3.05	2.92	96						
141				35/88	-141.15-141.17	qtvn w/py	qtvn	py-5%	51985
									51986
	142.34								
143									143
	3.05	2.94	96						
144					-144.05-145.28	chl alt'n near fault. (see below)	chl-20%, cbt-3%	py-3%	51987
145					145.28-148.09	large fault w/ alt gouge. qt + cbt flooded, py in clots	qtvn-20%, chl-20% cbt-10%	py-5%	145
	145.39								
146	3.05	2.86	94		148.09-154.53	weak perv Kspar alt'n w/ cbt vn + qtvn, int in qtvn, chl filled amygdules + frac controlled. py diss or vn	qtvn-1%, cbt-2% ser-05% chl-10% Kspar-3%	py-2%	51988
147									147
					-148.34-148.48	frac w/ perv chl. alt'n.	chl-20%	py-0.5%	51989
148									
	148.44								
149	3.05	2.84	93						149
									51990
150									

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-20
Page 17 of 17 From 150 To 160
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
150	3.05	2.84	93						51990
151	151.49								151
152	3.05	2.84	93						51991
153					-152.95-153.11	frac related chl.	chl-20%	py-1%	153
154					-154.21-154.43	chl alt'n - fault gouge	chl-30%		51992
	154.53				E. O. H.				154.53
155									
156									
157									
159									
159									
160									

NCG

DRILL CORE LOG - Cover Page

Logged by: P. Ronning Start Date: 02/12/90 Completion Date:

Drill Hole No.: 90-21
Page 1 of
Project: South Kemess

Contractor Information

Drill Contractor: J.T. Thomas
Foreman: G. Uyck
Hole Start Date: 27/11/90
Hole End Date: 28/11/90

Drill Hole Information

Size of Core: NQ
Location:
Property Name: South Kemess
Claim Name:
Grid Name:
Zone Name:
Northing: 9,800 N
Easting: 10,950 E
Elevation:
Survey Method (eg. compass, altimeter): grid ref

Drill Hole Orientation Surveys:

Depth	Azimuth	Plunge	Method
collar		-90°	clino
148.44		-90°	acid

Final Depth of Hole: 148.44 m

Symbols and Abbreviations Used in Log

Minerals		Rocks		Other	
py	pyrite	QM	quartz bearing monzonite	c.a.	core axis
cp	chalcopyrite	and	andesite	stngrs	stringers
mo	molybdenite	brx, brxtd	breccia, brecciated	stckwrck	stockwork
bn	bornite	porph	porphyry	grndmss	groundmass
cu	native copper			dissem	disseminated
kp, kspar	potassium feldspar				
fp	feldspar				
qt	quartz				
plag	plagioclase				
ab	albite				
ca	calcite				
cbt	carbonate				
bi	biotite				
hb	hornblende				
chl	chlorite				
st	sericite				
go	goethite				
hm	hematite				

Other

sub-ang	sub-angular
-rnd	-rounded
mx	medium crystalline
alt	altered
fragment(s)	
w, w/o	with, without
+	and
altn	alteration
pheno(s)	phenocryst(s)
vn(s)	vein(s)
vnlt(s)	veinlet(s)

Sample Shipment Information

Sample Numbers	Date Shipped	Shipment No.	Shipped Via	Laboratory	Date Results Received	File Number(s)

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 02/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 2 of 15; From 10 To 20
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
10					0 - 17.37	Cased in overburden			
11									
12									
13									
14									
15	15.24				17.37 - 34.00	Ferricrete. Rock fragments, qt vein fragments & mineral grains, 10% to 50% of rock, in cement with variable proportions Fe oxide and carbonate. Actual grain size & composition variable with different soil horizons.			
16	2.13	0	0						
17	17.37								17.37 ↓
18						Note: This interval is not believed to be mineralized. As a check, the last 20 cm of each row in the core box will be split & combined into a single sample, No. 52123.			to 34
19	3.05	150	49						52123
20									

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 02/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 3 of 15 ; From 20 To 30
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
20					17.37-34.00	(cont.) Ferricrete			from 17.37
	2.42								
21									
22	3.05	2.60	85						
23									
	23.47								
24									52123
25	3.05	2.98	98						
26									
	26.52								
27									
28	3.05	2.94	96						to 34
29									
	29.57								
30									

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 02/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 4 of 15 ; From 30 To 40
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Py % (1 2 3 4)	Cu % (1 2)	Sample Number
30					17.37- 34	(cont.)					
31	3.05	1.81	59								
32											from 17.37
	32.61										
33					34- 61.2	Monzonite	Oxidized Fe oxides 20% plag → st 25% qt vnlts 10%	cu 0.1%			
34	3.05	2.36	77								34
						Rock recd from hematitic Fe oxides. Silicate components obscured, but sericitized plag noted in felsic groundmass. Qt vnlts stand out; any sulphides now oxidized. Rare specks native cu, usually assoc. w. fractures.				Y/10	52124
35											
	35.66										
36											36
37	3.05	2.55	84		38.5-			py tr			52125
38											38
	38.71				39.8-39.92			cu 1%			52126
39					39.92 - 42			cu 0.2%	tr	1/5	
40											40

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 02/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 5 of 15; From 40 To 50
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Py % (1 2 3 4)	Cu % (1 2)	Sample Number
40					34- 61.2	(cont.)					40
	3.05	2.93	96		42- 44			cu 0.1%			
41					44-			cu not noted.		2/10	52127
	41.76										
42					46.54-46.64	fault gouge, 55° c.a.					42
											52128
43	3.05	2.60	85							1/10	
44											44
	44.81										52129
45										nil	
46											46
	3.05	2.89	95	55							52130
47											
	47.85										48
48					49.46-49.57			cu 2%			
											52131
49	3.05	2.91	95							2/10	
50											50

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 6 of 15 ; From 50 To 60
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Py % 1 2 3 4	Cu % 1 2	Sample Number
50					54- 61.2	(cont.)					50
					50.67			cu noted		noted	
51	50.90								tr	noted	52132
					52.23			cu noted in fracture			
52											52
	3.05	3.02	99								
53											52133
54	53.95								tr		54
55											52134
	3.05	3.03	99								
56											56
57	57.00										52135
					58.23			speck cu noted			
58									tr	noted	58
					58.76-59.48	Breccia. Main fragments are vein qt, 1mm-2cm. Supported in red, hematitic matrix. Possibly hydrothermal breccia?					
59	3.05	2.92	96								52136
60											60

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 7 of 7 From 60 To 70
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Py % (1 2 3 4)	Cp % (1 2)	Sample Number
60	60.05				61.2 - 105.73	(Quartz Bearing?) Monzonite	qt vnlts 10% plag → st 25% chl 10% cu 1%	py 1½% cp not noted	tr		60
61						Interval starts at first appearance of abundant fresh py. Rock mottled grey-green due to greenish st + chl. Qt veins abundant but lack kp envelopes seen in other holes. Py dissem + as randomly oriented, sub-mm vnlts, most planar.					52137
62	3.05	2.72	89						1½		62
63	63.10										52138
64											64
65	3.05	2.86	94	10	61.2 - 63.14		hm 10%		1½		52139
				25		hematite staining persists for interval past 1st appearance of abundant py.					
66	66.15				63.14 - 63.20	fault gouge + brx.					66
					63.54 - 63.80	1 cm fracture filled with gouge + sandy brx, sub-ll c.a.					52140
67					65.43 - 65.46	fault gouge + brx, 60° c.a.					
68	3.05	2.91	95	52	65.80	fault gouge + brx, 2 cm, 25° c.a.			1½		68
					68.23 - 68.40		qt vein, 52° c.a.	py 1½% in vein cp tr	tr		52141
69	69.19			45	69.74 - 69.86	fault gouge + brx; upper contact 45°; lower contact 60°.					
70											70

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 8 of 15 From 70 To 80
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Py % (1 2 3 4)	Cp % (1 2)	Sample Number
70					61.2- 105.73	(cont.)					70
					70- 93			Py 1½% Cp tr			
71	3.05	2.93	96						1½	tr	52142
72	72.24										72
73											52143
74	3.05	2.94	96						1½	tr	74
75	75.29										52144
76											76
77	3.05	3.01	99						1½	tr	52145
78	78.33										78
79											52146
80											80

N C G
CEC ENG.

DRILL CORE LOG

Logged by: D.R. Date: 03/12/96 Sampled by: Date:

Drill Hole No. 90-21
Page 9 of 15 From 80 To 90
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	P_y % (1 2 3 4)	C_p % (1 2)	Sample Number
80					61.2 - 105.73	(cont.)					80
	3.05	3.01	99		81.06-81.38	qt	50%	py 5% cp 1%	1½	tr	
81										1	52147
	81.38				Intense qt stckwrk, bounded at upper end by stringer @ 40°.						
82											82
					83.28	qt vnlt, 1cm, 50°		py 3% in vnlt mo tr adj. veinlet			
83	3.05	2.88	94	qt py mo					1½	tr	52148
84											84
	84.43										
85											52149
										tr	
86	3.05	3.00	98								86
									1½		
87											52150
	87.48										
88											88
89	3.05	2.97	97							tr	52151
90											90

N C G
CEC ENG.

DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 10 of 15; From 90 To 100m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	py % (1 2 3 4)	Cp % (1 2)	Sample Number
90					61.2 – 105.73	(cont.)					90
	90.53										
91									1½	tr	52152
92	3.05	2.98	98		93-105.73			py 1½% cp 0.2%			92
93											52153
	93.57										
94					97-98	very sharp boundaries noted between medium green and light grey-green rock. Color difference relates to chl. content and color of sericite. Presumably the sharp boundaries relate to fluid channels. Petr. specimen collected.				⅕	94
95	3.05	2.92	96								52154
96											96
	96.62				98.5-98.56		brxtd vein qt, 60% red hem cmnt, 20% chl 5% qt vnlts 15% hm 5%	py 5% cp 1%	1½		52155
97											
98					98-				5	1	98
	3.05	3.02	99								
99					99.87		typical qt vnlt, 5mm, 70° c.a. hm selvage, 10%	py 20%	1½	⅕	52156
100	99.67			70 qt hm							100

DRILL CORE LOG

N C G
CEC ENG.

Logged by: P.L. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 11 of 15 From 100 To 110 m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Py % 1 2 3 4	Cp % 1 2	Sample Number
100					61.2 – 105.73	(cont.)					100
					100.98-102		qt stckwrk 25%	py 1½% cp 0.2% mo tr	1½	⅕	52157
101											
	3.05	2.74	90								
102					102.72-103.15	breccia	qt 70% st 20% cbt 5%	py 2% very finely dissem	2		102
	102.72										
103						Siliceous breccia - at least 3 generations qt, each brxtng earlier ones. Last stage of fluids now forms cement; partly siliceous, partly sericitic, partly cbt. Somewhat vuggy; probably late stage, low temp & pressure.				52158
104											104
	3.05	2.97	97						1½	⅕	
105					104.44			1 cm x cm conc. of 5% cp.			52159
	105.77										
106											106
					105.15-105.27		qt 40% brxtd, disrupted vns.				
107											52160
	3.05	2.94	96		105.73-108.49	Hybrid Breccia	ca 15% bi 10% st 25% qt vnlts 1% kspar 1%	py 2%	2	nil	108
108											
	108.81										52161
109											
						Contact zone breccia - hydrothermal? Fgmts andesitic volc. or monzonite, .1mm – 5 cm.					110
110											

(next page)

N C G
CEC ENG.

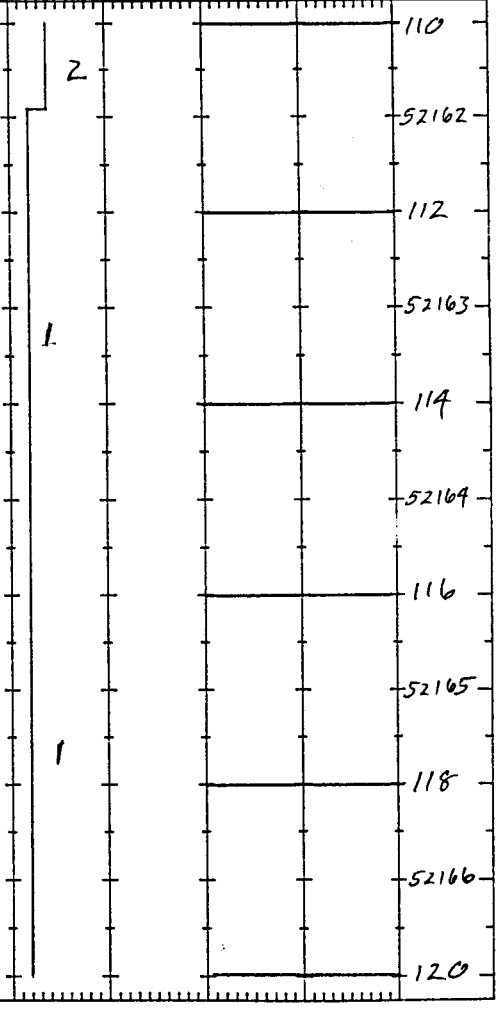
DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 12 of 15 From 110 To 120 m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Description
110					105.73-108.49	(cont.)
	3.05	2.97	97			Fgmts 50% of rock; cement dark brown, calcareous, biotiferous. ca vnlts common. Qt relatively rare. Minor kp shows in stains.
111						
	111.86					Fgmts volcanic and/or intr mutually exclusive.
112						
						Contact with overlying intrusive sharp.
113					108.49-110.90	Hybrid Zone bi 20% py 2% ca 5%
	3.05	2.87	94			
114						
						Dark brown biotite altered rock; vfx.
115	114.91					Can't distinguish betw. intr. + volc. origin; may be hybrid due to partial digestion of volcanic by intrusive.
116					110.90-117.61	Monzonite bi 10% py 1% kspar 1% ca vnlts 5% qt vnlts 1% st 20%
	3.05	2.86	94			
117						
118	117.96					Contact with hybrid zone sharp; may be intrusive. Local brown bi-rich zones but dominantly medium grey, sericitic.
	3.05	2.81	92			
119						
120						

Py % (1 2 3 4) | Cp % (1 2) | Sample Number



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DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 13 of 15 From 120 To 130m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Description: Lithology	Alteration	Mineralization	Py % 1 2 3 4	Cp % 1 2	Sample Number
120					110.90-117.61	(cont.)					120
121	121.01				117.61-120.1	Hybrid Zone	Ca 20% bi 10%	py 2%			52167
122						Medium brown, very calcareous. ca also occurs as vnlts. No distinct textures; may be hybrid due to partial digestion of volcanic by intrusive. Origin of ca in groundmass unexplained.			2		122
	3.05	2.75	90								
123											52168
124	124.05				120.1-120.4	Fault Gouge					124
					120.4-130.27	Augite Porphyry (Andesite ?)	aug→chl 15% st 10% ca vnlts 2%	py 2%	2		
125											52169
126	3.05	2.80	92			Rock hard, brittle, relatively unaltered except for chloritization of mafics and some st in groundmass. Ca as 1-2 mm vnlts.					126
127	127.10					Breccia textures noted locally, with similar texture & composition in clasts & matrix. Flow breccia? Locally brownish, presumably due to bi altn.					52170
128					121.89		ca vn, 2cm, 90° c.a. chl selvages.	py 5% in vn.			128
	3.05	2.80	92						2		
129											52171
130											130

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DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 14 of 15; From 130 To 140 m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Interval	Lithology	Alteration	Mineralization	Py % (1 2 3 4)	Cp % (1 2)	Sample Number
130	130.15				130.27-148.44	Andesite	chl 10%	py 3%			130
							ca 10%				
131							st 20%				52172
	3.05	2.48	81			Finely crystalline, dark green to brownish green rock. Mafics chloritized; most of groundmass indeterminate, felsic. Groundmass partly sericitized. Ca as vnlts and diffused in groundmass. py dissem and in hairline veinlets.			3	nil	
132											132
133	133.20			72 ca qt chl py							52173
134					130.27-131.28	rock brecciated; fault gouge 25%. Fault Zone					134
	3.05	2.81	92		133.26-133.30		vnlt ca 50%	py 10%			52174
135							qt 30%				
							chl 10%				
136							72° c.a.				136
	136.25			qt 40 ca 15 75 qtca py		early qt vnlt assemblage.	re-opened by ca-chl-py				
137					134.37-134.42	fault brx. fgmts ca vein in gouge.			3	nil	52175
					136.77-136.82		qt vn, 1 cm, 40° c.a.	py 2% in vn			
138	3.05	2.58	85				ca 5%, py 2% above cut by				138
139							vein qt 30%	py 30% in vn			52176
	139.29						ca 30%				
							py 30%				
140							75° c.a.				140

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DRILL CORE LOG

Logged by: P.R. Date: 03/12/90 Sampled by: Date:

Drill Hole No. 90-21
Page 15 of 15 From 140 To 150m
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Py % 1 2 3 4	Cp % 1 2	Sample Number
140					130.27 - 148.44						140
141	3.05	2.65	87		142.3 - 143.41	Fault Breccia;	20% fault gouge.				52177
					147.47 - 148.17		ca 10% chl 20%	py 10%	3	nil	
142						series ca-chl-py stringers, 30° c.a.					142
	142.34				148 - 148.17	rock very soft, crumbly. Fracture surfaces coated with pyrophyllite (or talc).					52178
143											
					148.44	EOH					
144	3.05	2.89	95								144
145											52179
	145.39								3		
146											146
147	3.05	2.90	95							nil	52180
148				ca chl py					10		
	148.44								3		148.44
149											
150											

NCG

DRILL CORE LOG - Cover Page

Logged by: JM Start Date: Dec 4/90 Completion Date: Dec 6/90

Drill Hole No.: 90-22
Page 1 of 15
Project: South Kemess

Contractor Information

Drill Contractor: J. T. Thomas
Foreman: G. Dyck
Hole Start Date: 28/11/90
Hole End Date: 29/11/90

Drill Hole Information

Size of Core: NQ
Location:
Property Name: South Kemess
Claim Name:
Grid Name:
Zone Name:
Northing: 9,800
Easting: 10,650
Elevation:
Survey Method (eg. compass, altimeter): grid ref

Drill Hole Orientation Surveys:

Depth	Azimuth	Plunge	Method
collar		-90	clino
135.64		-90	acid

Final Depth of Hole: 135.64

Symbols and Abbreviations Used in Log

Plag - plagioclase, Sauss - Saussaritized, bi - biotite, py - pyrite, cp - chalcopyrite, QT - Quartz, Vn - vein, CRT - Carbonate, chl - Chlorite, Mt - magnetite, Sr - Sericite, K-Spar - potassium feldspar, He - Hematite, w/ - with, Fract - Fracture, frag - fragment, diss - disseminated, Al - albite, Alt'd - Albitized, O.B. - over burden, Mo - Molybdenite,

Sample Shipment Information

Sample Numbers	Date Shipped	Shipment No.	Shipped Via	Laboratory	Date Results Received	File Number(s)
51993 - 52000						
52201 -						

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DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 2 of 15 ; From 0 To 10
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
0					CASING IN O.B.				
01									
02									
03									
04									
05									
06	6.10				6.10 - 105.86	Monzonite	Al-5 to 40%, bi-5 to 25%, py-1-3%		6.10
07	2.13	1.88	88			Medium grained intrusive w/ cross cutting QTVn + perv al'z. al giving the unit a mottled orange appearance. cbt as mm vlts, chl frac controlled + locally pervasive, ST locally perv. bi diss, secondary (?)	QTVn - 1 to 10%, chl - Tr to 30%, cbT - Tr, ST - Tr to 10%		51993
08	8.23				6.10 - 15.40		Al-10%, bi - 5% QTVn-5% py-1% chl-2% ST-Tr. He-Tr		8
09	3.05	2.68	88		-6.56 - 9.40	perv Al'z related to QTVn, frac controlled chl + ST, bi-diss, py-diss or in Vn, He in frac. He in frac, bi (5%) V f.g diss, secondary, (5%) primary (?)	bi-10%, He-Tr		51994
10									10

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 3 of 15; From 10 To 20
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
10									10
	3.05	2.68	88						51995
11									
	11.28								
12					-12.05-14.10	frac controlled stalt'n.	ST-10%	py-2%.	12
	3.05	2.96	97						51996
13									
					-13.75-13.85	stalt fault gouge w/frag rounded frag of country rock + QT.	ST-20%		14
14	14.33								
15					14.40-23.80	perv Al'z related to	Al-30%, QTVn-5% ST-5%, chl-5%, bi-5% QTVn, ST+chl frac controlled. bi-d.iss	py-2%.	51997
	3.05	2.99	98						16
16									
17				fault 40°	-17.54-17.63	chl+stalt fault gouge	chl-20%, ST-5%	py-Tr	51998
	17.37								
18									18
	3.05	3.05	100	fault 45°	-18.82-18.90	fault w/alt gouge.	chl-10%, ST-5%	py-1%	51999
19									
20									20

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CEC ENG.

DRILL CORE LOG

Logged by: J M Date: Sampled by: Date:

Drill Hole No. 90-22
Page 4 of 15 ; From 20 To 30
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
20									20
	20.92								
21									52000
22	3.05	2.74	90						22
							QTVn, ST-10%,	MO-Tr	
23					-23.55-23.80	QTVn w/ stalt margin.			52201
	23.47								
24					23.90-27.85		Al-10%, QTVn-40% bi-10%, chl-1%, ST-Tr	py-1%	24
						perv potassic alt'n - bi, Al related to QTVn, bi vf diss, chl+ST frac controlled, Py diss or in Vn			
25	3.05	3.02	99		-24.68-24.80	frac(?) w/ ST alt'n	ST-5%		52202
26					-25.79-26.04	locally perv chl+ST alt'n w/ large QTVn, He in QTVn	QTVn-20%, ST-15% Chl-5%, He-Tr	py-2%, MO-Tr	26
	26.52								
27									52203
							Al-5-30%, bi-5-20% QTVn-2-4% ST-3%, chl-2%	py-2%, cp-Tr MO-Tr	
28	3.05	2.97	97		27.85-105.86	perv Al'z + perv secondary bi, ST+chl frac controlled - locally perv. py diss + Vn.			28
							QTVN-4% ST-3% Al-10%, bi-15%, chl-2%		
29					-27.85-31.01	Al'z related to QTVn, bi diss + perv. ST+chl w/ Al+QTVn			52204
	29.57								
30		2.83	93						30

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90 – 22
Page 5 of 15 ; From 30 To 40
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
30									30
31	3.05	2.83	93		-31.01 – 32.32	weak perv bi alt'n, Al locally perv+related to QTUN	Chl – Tr. QTUN-2% bi-5%, Al-5%		F2205
32					-32.32 – 36.57	perv potassic alt'n – bi. Al related to QTUN.	QTUN-2% bi-10%, Al-5%	py-2%	32
33	32.61						ST-10%		52206
34	3.05	2.96	97		-33.69 – 34.00	locally perv ST alt'n			34
35									52207
36	35.66								36
37	3.05	3.05	100		-36.57 – 36.90	QTUN related Alt	Al-20%, bi-5%, QTUN-2%	py-2%	52208
					-36.90 – 37.90	perv chl+ST alt'n related to QTUN, chl after matrix (bi?) ST-locally perv.	QTUN-5%, chl-10%, ST-10% Al-3%	py-3%	
38					-37.90 – 50.45	perv bi w/ Al related to QTUN.	QTUN-2%, bi-15%, Al-5%, chl-5%	py-1%, cp-Tr Mo-Tr	38
39	38.71				-38.16 – 38.73.	chl after matrix (?) – bi (?).			52209
	3.05	3.05	100		-39.08 – 39.28	QTUN w/ CP + MO	QTUN – 20%	Mo-Tr, cp-0.1%	
40									40

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CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 6 of 15; From 40 To 50
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
40									40
	3.05	3.05	100		-40.68-41.23	QTVn w/ Al'z margin,	Al-15%, QTVn-5%	Mo-Tr, cp-0.1%	52210
41						sulfides in QTVn			
	41.76								
42									42
					-42.90-43.58		QTVn-10%, chl-5%	cp-0.1%, Mo-Tr	52211
43							ST-10%		
	3.05	2.89	95			QTVn w/ ST+chl alt.	margin, sulfides diss in QTVn.		
44									44
	44.81								
45					-45.00-45.33		chl-5%, ST-10%	py-1%	52212
						perv ST alt'n w/ chl after mafics(?)			
46							Cbt<1%, QTVn-4%		46
	3.05	3.00	98		-46.15-46.61	QTVn w/ diss cp.		cp-0.1%	
47									52213
	47.85								
48					-47.85-48.60		Al-10%, QTVn-2%	cp-Tr, py-2%	48
						perv Al'z, unit bleached(?)			
					-4860-5045		bi-20%, QTVn-2%	cp-Tr, py-1%	
49						perv bi (potassic) alt'n, cp in QTVn.			52214
	3.05	2.83	93						
50									50

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-22
Page 7 of 15 | From 50 To 60
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
50	3.05	2.83	93						50
					-50.45-54.70		QTVn-4%, Al-20% bi-5%, chl-5%	py-1%	
51	50.95					perv Al'z related - QTVn, bi secondary, chl after mafics			52215
					-50.45-51.30	perv secondary bi	bi-10%		
52	3.05	3.00	98						52
					-5268-5295		chl-10%	py-2%	
						chl after mafics			
53					-5295-54.70		Al-30%, QTVn-4%	py-2%	52216
						unit w/ orange alt(Al) related(?) to QTVn.			
54	53.95								54
							Al-10% bi-20% QTVn-2%, cbT-Tr chl-2%	py-1%, cp-Tr.	
					-54.70-58.25				
55						perv potassic alt'n-bi, QTVn w/ Al'z margin, chl frac related + locally perv. cbt as mmvlts, py diss or in vn, cp in QTVn.			52217
	3.05	2.90	95						
56									56
57	57.00								52218
58									58
	3.05	2.56	84		-58.25-59.05		Al-5%, bi-10% QTVn-2%, cbT 1%	py-1%,	
59						perv potassic alt'n-bi, py-diss+vn.			52219
							chl-10%, Al-30% QTVn-5%, bi-Tr	py-2%	
					-59.05-69.57	perv Al'z w/ chl after mafics, py diss + chl alt frac.		vn, bi-diss, phenos	
60	60.05								60

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CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 8 of 15 ; From 60 To 70
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
60	60.05								60
61	3.05	3.00	98						52220
62									62
63	63.09								52221
64									64
65	3.05	2.76	90						52222
66	66.14			qtvn 35°	-66.05-66.20	qtvn w/ py	qtvn	py-3%	66
67									52223
68	3.05	3.05	100						68
69	69.19				-69.57-75.75	perv potassic alt'n - bi, Al qtvn related chl frac controlled, sulfides diss or in vn.	bi-10%, Al-5% qtvn-3% chl-2%	py-1%, Mo-Tr cp-Tr	52224
70									70

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90 - 22
Page 9 of 15; From 70 To 80
Project: South Keness

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
70									70
71	3.05	2.80	92						52225
72	72.24						QTVn - 10%	cp-Tr, Mo-Tr	
					-72.10 - 72.58	QTVn w/ Py, cp + Mo.		Py-3%	72
					-72.24	chl alt frac	chl		
73					-72.34	see 72.24.			52226
74	3.05	3.02	99		-74.05	see 72.24			74
					-74.25				
75									52227
	75.29						chl - 30%, ST - 10%		
							QTVn - 5%	Py - 2%, cp - 0.1%	
76					-75.75 - 76.30	chl alt fault gouge w/ frag of QTVn, chl. alt country rock			76
						Py diss + in QTVn, cp in QTVn frag.			
					-76.30 - 78.33		bi - 20%, Al - 10%	Py - 2%	
77	3.05	2.98	98			perv secondary bi, Al associated w/ QTVn,	QTVn - 5%	Py diss or VN.	52228
78							bi - 10%, Al - 15%	Py - 2%	78
	78.33				- 78.33 - 80.10		QTVn - 1%		
						QTVn w/ Al alt margin, perv secondary bi.			
79									52229
	3.05	3.05	160						
80									80

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 10 of 15 From 80 To 90
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
80					-80.10-82.05	qtzn w/ Al'z margin, perv. secondary	bi-15%, Al-15%, qtzn-3%	py-2%, bi, py diss orin fx.	46
	3.05	3.05	100						
81									52230
	81.38								
82							Al-30%, qtzn-2%, bi-5%	py-2%	
					-82.05-84.15	perv Al'z, unit rootlets orange.			82
	3.05	2.90	95						
83									52231
							bi-10%, Al-20%, qtzn-3%	py-2%	
84					-84.15-87.66	Al'z related to qtzn, perv secondary bi.			84
	84.43								
85									52232
86	3.05	3.05	100						86
87									52233
	87.48								
					-87.66-91.80		bi-10%, Al-30%, qtzn-2%, chl-3%	py-1%	
88						perv Al'z. bi as rtg secondary or as clots (primary?) chl after mafics (bi(?))			88
89		3.05	100		-87.66-88.10	bi as primary clots w/chl	bi-10%, chl-2%		52234
					-88.10-89.00	bi rtg secondary	bi-10%		
					-89.00-91.80	bi primary	bi-10%		
90									90

N C G
CEC ENG.

DRILL CORE LOG

Logged by: JM Date: Sampled by: Date:

Drill Hole No. 90-22
Page 11 of 15 From 90 To 100
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
90									90
	90.53								
91									52235
92	3.05	3.02	99		-91.80-95.25	perv secondary bi,	Al-10%, bi-10% QTVn-2% Al related to QTVn	py-1%	92
93									52236
	93.57								
94									94
95	3.05	3.05	100		-95.25-96.88	perv secondary bi - unit very dark (~black) w/ cross cutting vlts of qt + py.	bi-20%, QTVn-1% Al-tr, Kspar 5%	py-1%	52237
96									96
	96.62								
97					-96.88-100.61	unit Al'2, bi primary (?) QTVn w/ cp, py + cbt. chlatter bi (?)	cbt-tr, chl-tr bi-10%, QTVn-5%	py-1%, cp-tr	52238
98	3.05	2.81	94						98
99					-98.80-99.45.	large QTVn w/ margins brecciated + filled w/ cbt.	QTVn-90%, cbt-10%	py-1%, cp-0.2%	52239
	99.67								
100	3.05	3.03	99						100

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-22
Page 12 of 15; From 100 To 110
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
100							bi-10%, QTVN-3% Al-10%, chl-2%	py-1%	100
101	3.05	3.03	99		-100.61-105.86	lower margin of unit - has original texturas masked by Al'z, silicification + brecciation. Al related QTVN bi primary or secondary chl after bi		py-1%	52240
					-100.61-101.70	bi secondary, Al QTVN related	bi-10%, Al-10%		
102					-101.70-105.86		chl-2%, QTVN-5%	py-1%	102
	102.72					brecciated section w/ frag of QTVN, Al'z country rock + chl alt country rock chl alt mafics + gouge. fragments w/ original Al'z intrusive texture.			
103									52241
104	3.05	2.97	97						104
105									52242
106	105.77				105.86-135.64	Augite porphyry flow.	chl-20%, Kspar-3% chl-2%, QTVN-1%	py-2%	106
						chl after augite (2%), chl filled amygdules (5%) weak, perv Kspar alt'n chl as vn, py as unordiss. Vfg chl G.M. - 72%, chl frac controlled			
107	3.05	2.98	98		105.86-108.00		chl-30%.	py-2%	52243
						perv chl alt'n of unit - original textures preserved.			
108									108
109	108.81						chl-40%, cbt-2%	py-1%	52244
		2.41	79		109.10-125.20	Unit very broken w/ cross cutting fault + frac. frac + fault w/ perv chl alt'n. chl perv from frac + fault + as amygdules + after Augite in unalter sections			
110					-109.10-109.60	fault w/ chl gouge.			110

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-22
Page 13 of 15 ; From 110 To 120
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
110					-110.02	chl alt frac.			110
	3.05	2.41	79						
111					-111.10-111.90	unit very broken + chl alt.			52245
	111.86								
112					-112.90	chl alt frac.			112
113	3.05	2.71	88		-113.23-113.24	fault w/ silicified gouge			52246
					-113.70-113.92	fault w/ chl alt. gouge + frag.			
114									114
115	114.91				-114.86-116.04	unit very broken + chl alt.			52247
116									116
	3.05	2.90	95						
117					-117.10-117.25	fault w/ chl alt gouge + margins			52248
118	117.96				-118.00	chl alt frac.			118
119	3.05	2.98	98						52249
120									120

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 80-22
Page 4 of 15 ; From 120 To 130
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description: Interval	Lithology	Alteration	Mineralization	Sample Number
120									120
121	121.01								52250
122	3.09	3.05	100						122
123					-122.00-122.42	fault w/ chl alt gouge + chl alt porphyry frag.			52251
					-123.20-125.20	unit frac, faulted w/ chl alt'n			
124	124.05				-123.45-123.57	fault w/ chl alt gouge.			124
125							.chl-25%, cbt-1% .py-1% .Qtun-1%, Kspar-3%		52252
	3.05	2.49	81		125.20-135.64	.chl after mafics + amygdales (10%), chl G.M. (5%) + chl alt frac (10%) .Kspar weak + perv. .py diss + in vn.			
126					-126.80-128.10	unit very frac (broken) w/ chl alt frac.			126
127	127.10								52253
128									128
	3.05	2.29	75						
129									52254
130	130.15								130

N C G
CEC ENG.

DRILL CORE LOG

Logged by: Date: Sampled by: Date:

Drill Hole No. 90-22
Page 15 of 15 | From 130 To 140
Project: South Kemess

Depth	Run	Recovery Units	Recovery %	Struct	Description Interval	Lithology	Alteration	Mineralization	Sample Number
130	130.15								130
131							qtzn, Al		
	3-0	2.54	83		-131.44-131.46	qtzn w/py + Al'z margin			52255
132									132
133	133.20								52256
134							Al-20%		134
	2.44	2.17	89		-134.11-134.48	Al'z frac, Al locally perv.			52257
135	135.64								135.64
136					E.O.H.				
137									
138									
139									
140									

APPENDIX II

Min-En Labs Ltd.

Au assay and ICP DATA

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1907-RA1

Company: EL CONDOR
Project: SOUTH KEMESS 90-20
Attn: MARK REBAGLIATI

Date: JAN-14-91
Copy 1. EL CONDOR, VANCOUVER, B.C.

We hereby certify the following Assay of 24 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
51919	.35
51920	.43
51921	.11
51922	.50
51923	.24
51924	.40
51925	.42
51926	.52
51927	.43
51928	.56
51929	.80
51930	.40
51931	.62
51932	.67
51933	.71
51934	.42
51935	.45
51936	.33
51937	.29
51938	.40
51939	.46
51941	.46
51942	.40
51943	.46

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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705 WEST 15TH STREET
N[illegible]H VANCOUVER, B.C. CANADA V7M 1T2
T[illegible]HONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1907-RA2

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: JAN-14-91
Copy 1. EL CONDOR, VANCOUVER, B.C.

He hereby certify the following Assay of 24 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
51944	.43
51945	.50
51946	.55
51947	.65
51948	.42
51949	.46
51950	.60
51951	.52
51952	.54
51953	.85
51954	.72
51955	.51
51956	.60
51957	.48
51958	.52
51959	.64
51960	.41
51961	.45
51962	.43
51964	.46
51965	.40
51966	.43
51967	.41
51968	.42

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1907-RA3

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: JAN-14-91

Copy 1. EL CONDOR, VANCOUVER, B.C.

We hereby certify the following Assay of 24 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
51969	.46
51970	.17
51971	.11
51972	.09
51973	.07
51974	.10
51975	.08
51976	.11
51977	.06
51978	.05
51979	.04
51980	.10
51981	.06
51982	.11
51983	.12
51984	.19
51985	.08
51986	.10
51987	.10
51988	.98
51989	.08
51990	.04
51991	.03
51992	.38

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

COMP: EL CONDOR
PROJ: SOUTH KEMESS 90-20
ATTN: MARK 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-1907-RJ1+2
DATE: 91/01/14
* DRILL CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
51919	.7	1	1	.1	6	34390	3900	111	7	133	5	218
51920	.6	3	1	.1	3	27410	1840	26	9	208	6	305
51921	.4	3	1	.1	3	22610	1980	16	9	29	5	40
51922	.4	1	1	.1	3	26530	1980	15	12	23	5	29
51923	.4	5	1	.1	3	22030	1640	15	17	29	6	33
51924	.5	4	1	.1	3	25490	1710	12	13	23	5	29
51925	.6	7	1	.1	4	39200	2000	18	46	36	11	37
51926	.3	10	1	.1	4	33520	1400	8	24	19	4	19
51927	.6	8	1	.1	3	30520	1380	11	47	21	6	25
51928	.5	10	1	.1	3	29130	1370	8	18	14	5	18
51929	.4	3	1	.1	5	49440	1510	14	43	20	8	25
51930	1.0	6	1	.1	4	32240	1040	25	49	19	7	20
51931	1.1	7	1	.1	3	27930	1500	14	63	21	12	17
51932	.8	9	1	.1	3	20490	2100	22	40	14	8	20
51933	.9	9	1	.1	5	39320	2500	32	43	24	8	32
51934	1.7	8	7	2.1	11	35480	5480	113	37	28	12	57
51935	1.2	6	2	21.8	19	30690	9010	248	43	23	6	83
51936	.9	2	3	.3	18	37280	9600	241	49	15	7	103
51937	.9	5	2	2.9	16	33330	10220	277	44	24	5	94
51938	1.2	7	2	.1	17	39810	10060	243	52	27	5	105
51939	1.2	8	2	.1	21	48070	10000	245	60	22	7	88
51941	1.0	15	2	.1	19	37170	10380	150	62	27	8	63
51942	1.1	15	2	.1	13	36460	10240	260	45	18	6	49
51943	1.3	6	2	.1	14	36690	10990	311	56	23	7	46
51944	1.1	9	3	.1	12	36820	10450	338	35	43	4	70
51945	1.2	9	3	.1	16	43210	11690	405	31	449	4	70
51946	1.0	13	3	.1	19	46920	13940	422	57	48	6	88
51947	1.1	16	5	.1	20	46750	19500	435	42	38	7	70
51948	.9	17	4	.1	14	40220	15130	382	53	45	6	62
51949	.7	19	3	.1	20	43490	13020	357	55	31	5	69
51950	1.0	20	4	.1	17	44290	13970	330	60	29	6	58
51951	.9	16	4	.1	18	42360	11610	246	36	26	5	40
51952	.9	18	3	.1	14	37600	9280	210	58	20	6	37
51953	.9	16	4	.1	17	44640	9020	150	76	26	6	37
51954	1.1	18	4	.1	14	37640	7730	127	96	21	6	37
51955	1.2	20	4	.1	11	38270	10880	197	75	22	7	49
51956	1.0	20	3	.1	11	35580	10240	246	54	34	6	44
51957	.8	21	3	.1	14	35090	10470	159	54	27	6	34
51958	1.0	19	4	.1	11	33840	10150	244	71	26	6	35
51959	1.3	21	4	.1	13	36320	13320	232	79	23	7	49
51960	.9	24	4	.1	13	34780	6450	107	59	22	6	30
51961	.9	23	3	.1	12	37870	10590	189	44	18	8	56
51962	.9	24	3	.1	13	36800	10870	131	48	31	9	70
51964	1.4	24	4	.1	14	38940	9600	145	95	21	19	146
51965	1.6	24	4	6.9	12	37840	10780	231	73	20	9	740
51966	1.3	30	4	.1	12	32980	8490	75	157	21	9	41
51967	.9	25	3	.1	11	33650	8900	142	61	18	8	41
51968	1.7	31	4	.1	12	29010	6570	124	49	19	14	40

COMP: EL CONDOR
PROJ: SOUTH KEMESS
ATTN: MARK 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-1907-RJ3
DATE: 91/01/14
* DRILL CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
51969	1.2	12	1	.1	14	35730	3500	62	63	105	12	176
51970	1.1	11	1	.1	20	40600	14320	725	35	95	44	141
51971	.9	1	2	.1	28	56370	24000	731	20	29	2	71
51972	.7	1	2	.1	34	66170	25620	778	1	21	1	67
51973	.4	1	1	.1	25	55860	25330	584	4	18	1	47
51974	.6	1	2	.1	21	47780	24700	512	20	21	2	49
51975	.9	1	3	.1	24	52200	28500	722	1	9	1	53
51976	.8	1	3	.1	27	58700	29230	653	1	10	6	53
51977	.9	1	3	.1	25	56910	24470	741	1	14	1	55
51978	1.2	1	4	.1	24	52940	26430	776	5	12	1	56
51979	1.4	1	5	.1	28	62210	27380	869	1	9	1	64
51980	1.4	1	4	.1	32	63840	26120	744	1	9	1	61
51981	1.4	1	5	.1	25	54640	24290	818	13	16	1	65
51982	1.9	1	6	.1	27	58120	26490	859	14	12	6	67
51983	1.5	1	4	.1	32	60450	25760	901	14	11	1	70
51984	1.5	1	4	.1	31	65050	27950	945	1	10	2	87
51985	1.2	1	4	.1	31	62930	24240	732	1	17	6	88
51986	.9	1	3	.1	28	60190	25470	697	1	18	6	76
51987	.9	1	2	.1	21	51340	19680	727	2	16	1	77
51988	1.0	27	1	4.5	27	90480	9560	907	1	11	1	1001
51989	1.1	6	2	.1	14	41160	20140	1118	6	25	8	67
51990	1.3	1	4	.1	21	45960	19340	757	2	14	1	66
51991	1.5	1	5	.1	24	44070	21050	609	5	8	1	56
51992	1.5	1	4	.1	29	47920	17840	643	30	9	10	61

MIN-EN LABORATORIES
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705 WEST 15TH STREET
N[illegible] VANCOUVER, B.C. CANADA V7M 1T2
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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1826-RA1

Company: EL CONDOR
Project: SOUTH KEMESS 90-21
Attn: MARK REBAGLIATI

Date: DEC-31-90
Copy 1. EL CONDOR, VANCOUVER, B.C.

He hereby certify the following Assay of 24 CORE samples submitted DEC-17-90 by PETER RONNING.

Sample Number	*AU g/tonne
52123	.07
52124	.47
52125	.62
52126	.40
52127	.64
52128	.41
52129	.57
52130	.84
52131	.64
52132	.53
52133	.57
52134	.54
52135	.53
52136	.50
52137	.62
52138	.60
52139	.80
52140	.51
52141	.42
52142	.43
52143	.38
52144	.34
52145	.44
52146	.45

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

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(DIVISION OF ASSAYERS CORP.)

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NORTH VANCOUVER, B.C. CANADA V7M 1T2
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1826-RA2

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: DEC-31-90
Copy 1. EL CONDOR, VANCOUVER, B.C.

He hereby certify the following Assay of 24 CORE samples submitted DEC-17-90 by PETER RONNING.

Sample Number	*AU g/tonne
52147	.49
52148	.55
52149	.40
52150	.47
52151	.46
52152	.43
52153	.50
52154	.56
52155	.88
52156	.66
52157	.61
52158	.48
52159	.41
52160	.10
52161	.08
52162	.07
52163	.09
52164	.08
52165	.06
52166	.10
52167	.13
52168	.10
52169	.10
52170	.09

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
70[illegible] WEST 15TH STREET
N[illegible] VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1826-RA3

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: DEC-31-90
Copy 1: EL CONDOR, VANCOUVER, B.C.

He hereby certify the following Assay of 10 CORE samples submitted DEC-17-90 by PETER RONNING.

Sample Number	*AU g/tonne
52171	.10
52172	.11
52173	.09
52174	.10
52175	.11
52176	.09
52177	.09
52178	.09
52179	.09
52180	.10

*AU - 1 ASSAY TON.

Certified by

MIN-EN LABORATORIES

COMP: EL CONDOR
PROJ: SOUTH KEMESS 90-21
ATTN: MARK 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-1826-RJ1+2
DATE: 90/12/31
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
52123	2.0	4	4	.1	15	38970	10630	900	2	22	2	66
52124	1.3	1	1	.1	9	54770	2290	92	24	14	5	29
52125	1.1	3	1	.1	8	53250	1350	60	50	26	7	23
52126	.7	1	1	.1	5	38870	730	7	21	10	8	14
52127	.8	5	1	.1	4	35310	590	4	25	16	4	12
52128	.4	5	1	.1	4	30730	790	3	20	13	1	11
52129	.4	4	1	.1	3	20020	960	7	15	13	1	8
52130	.6	5	1	.1	3	27050	980	4	36	19	2	8
52131	.5	2	1	.1	3	28750	870	3	28	17	1	12
52132	.5	1	1	.1	4	36690	950	1	31	18	4	8
52133	.6	2	1	.1	4	38150	1060	1	30	12	5	9
52134	.6	2	1	.1	3	33960	1050	3	40	11	2	7
52135	.4	1	1	.1	5	49870	1250	14	50	17	1	15
52136	.6	4	1	.1	3	31180	1690	17	35	19	1	11
52137	1.8	1	1	.1	8	46120	3790	41	56	29	5	28
52138	1.4	1	1	.1	14	37530	5100	75	51	12	2	36
52139	1.5	1	1	29.4	18	49750	9640	244	52	21	1	59
52140	1.2	1	1	.1	19	49110	13530	473	50	12	1	100
52141	.7	1	1	.1	15	44400	7570	219	54	18	1	72
52142	.9	2	1	.1	14	39170	9530	369	47	16	1	94
52143	.9	1	1	.1	15	40630	8330	285	33	18	1	73
52144	1.0	2	1	.1	12	38490	8840	409	41	16	1	69
52145	1.0	3	1	.1	12	35480	9140	378	58	85	1	92
52146	1.1	1	1	.1	16	38290	7460	295	53	17	1	91
52147	.6	1	1	.1	17	47520	7870	227	43	72	1	91
52148	.5	1	1	.1	17	42440	6660	164	78	41	1	67
52149	.6	1	1	.1	19	41120	8900	376	48	26	1	92
52150	.7	5	2	.1	17	37420	9200	335	46	77	1	197
52151	.5	4	1	.1	15	36890	9020	252	28	39	2	118
52152	.7	1	1	.1	14	36300	9700	388	42	23	1	73
52153	.7	1	1	.1	19	39300	10350	454	64	27	1	100
52154	.8	2	1	.1	14	31130	8980	486	56	41	1	91
52155	.9	2	1	.1	16	35520	6870	265	63	77	11	90
52156	1.1	1	1	.1	17	47230	7580	281	49	45	7	94
52157	1.0	24	1	.1	14	38670	4080	65	155	19	25	55
52158	1.7	49	1	.1	15	38120	2970	55	47	45	51	117
52159	.7	25	1	.1	17	36030	4950	152	64	34	25	72
52160	.5	1	2	.1	26	55690	22320	976	14	6	2	45
52161	.6	1	2	.1	29	61610	29880	730	4	5	2	46
52162	.4	1	2	.1	23	51960	22340	460	5	16	3	36
52163	.3	2	1	.1	10	32820	8920	223	9	17	5	25
52164	.3	3	1	.1	10	32140	8610	176	19	22	2	30
52165	.2	1	1	.1	16	41710	15080	216	13	9	2	27
52166	.5	1	2	.1	30	65710	32950	432	1	3	1	28
52167	1.0	1	2	.1	26	56650	40660	755	9	3	5	50
52168	.5	1	2	.1	30	61440	34860	659	1	5	1	47
52169	.6	1	1	.1	36	67540	39110	741	4	3	1	49
52170	.8	1	2	.1	30	61140	35870	775	1	3	1	49

COMP: EL CONDOR
PROJ: SOUTH KEMESS
ATTN: MARK 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: OV-1826-RD3
DATE: 90/12/31
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
52171	2.1	1	3	.1	34	66990	39760	710	1	9	7	54
52172	1.4	1	2	.1	30	62830	31100	508	7	9	5	42
52173	.5	1	1	.1	31	67730	24870	300	14	16	9	34
52174	1.1	1	2	.1	33	64170	24900	427	35	12	3	43
52175	.8	1	2	.1	28	60850	25420	309	21	15	12	36
52176	.8	1	2	.1	27	61110	25780	400	8	13	9	46
52177	.9	1	2	.1	26	63680	29400	484	1	12	4	53
52178	1.0	1	2	.1	25	59620	32040	558	4	9	4	56
52179	.8	1	3	.1	30	68660	33500	422	1	5	1	57
52180	.5	1	2	.1	30	77350	27350	445	1	9	5	53

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1909-RA1

Company: EL CONDOR
Project: SOUTH KEMESS 90-72
Attn: MARK REBAGLIATI

Date: JAN-14-91
Copy 1. EL CONDOR, VANCOUVER, B.C.

We hereby certify the following Assay of 24 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
51993	.28
51994	.22
51995	.38
51996	.24
51997	.28
51998	.21
51999	.21
52000	.24
52201	.20
52202	.38
52203	.29
52204	.24
52205	.33
52206	.26
52207	.32
52208	.39
52209	.37
52210	.27
52211	.39
52212	.32
52213	.40
52214	.31
52215	.39
52216	.26

*AU - 1 ASSAY TON.

Certified by _____

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Assay Certificate

OV-1909-RA2

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: JAN-14-91
Copy 1. EL CONDOR, VANCOUVER, B.C.

We hereby certify the following Assay of 24 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
52217	.25
52218	.20
52219	.24
52220	.22
52221	.32
52222	.39
52223	.29
52224	.30
52225	.39
52226	.23
52227	.32
52228	.40
52229	.42
52230	.31
52236	.27
52237	.40
52238	.32
52239	.32
52240	.26
52241	.28
52242	.17
52243	.04
52244	.03
52245	.06

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

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(DIVISION OF ASSAYERS CORP.)

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SMITHERS LAB.:
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Assay Certificate

OV-1909-RA3

Company: EL CONDOR
Project: SOUTH KEMESS
Attn: MARK REBAGLIATI

Date: JAN-14-91

Copy 1. EL CONDOR, VANCOUVER, B.C.

We hereby certify the following Assay of 12 DRILL CORE samples submitted DEC-31-90 by PETER RONNING.

Sample Number	*AU g/tonne
52246	.08
52247	.09
52248	.07
52249	.06
52250	.10
52251	.08
52252	.16
52253	.07
52254	.03
52255	.04
52256	.04
52257	.04

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

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SPECIALISTS IN MINERAL ENVIRONMENTS
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THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

1S-0008-RA1

Company: CEC ENGRG.
Project: KEMESS SOUTH
Attn: M.REBAGLIATI

Date: FEB-12-91

Copy 1. CEC ENGRG., VANCOUVER, B.C.
2. CEC ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 5 CORE samples submitted FEB-05-91 by J.MCCREA.

Sample Number	*AU g/tonne
52231	.19
52232	.27
52233	.30
52234	.35
52235	.32

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

COMP: EL CONDOR
PROJ: SOUTH KEMESS 90-22
ATTN: MARK 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: OV-1909-RJ1+2
DATE: 91/01/14
* DRILL CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
51993	1.1	9	1	.1	14	29110	10310	187	73	21	1	79
51994	1.0	9	2	.1	13	27030	9820	224	45	47	6	121
51995	1.0	9	2	3.4	15	32870	10580	119	84	22	3	70
51996	.8	9	2	.1	18	38740	9490	97	63	103	6	64
51997	.7	7	1	.1	14	36810	9850	65	49	23	4	38
51998	.6	8	1	.1	15	32580	8980	74	48	18	1	37
51999	.5	1	1	.1	13	40820	9280	129	80	16	1	49
52000	.7	9	1	.1	12	30230	9300	130	98	29	6	63
52201	.6	10	1	.1	12	28790	7540	116	63	20	5	61
52202	1.1	8	1	.1	15	31910	9450	203	83	14	1	69
52203	1.0	6	1	1.7	14	32090	9150	249	68	373	3	423
52204	1.1	6	2	.1	12	32070	9790	317	51	49	1	89
52205	1.1	8	2	.1	12	32140	9430	339	82	22	2	44
52206	1.2	5	2	.1	11	29480	10320	286	48	17	1	41
52207	1.3	10	2	.1	12	34480	10210	282	52	22	2	128
52208	1.0	9	2	.1	12	33540	8020	185	94	18	4	53
52209	1.2	5	2	.1	11	30580	10370	334	49	16	2	49
52210	1.3	8	2	.1	11	30120	10600	323	70	14	3	56
52211	1.4	13	2	.1	11	29960	8610	254	213	18	6	51
52212	1.2	6	2	.1	12	33150	10220	291	63	14	3	49
52213	1.3	2	2	.1	13	35800	9710	263	79	16	4	56
52214	1.3	12	2	.1	11	29380	8440	262	94	13	8	50
52215	1.3	12	2	.1	11	30550	9350	221	89	18	3	41
52216	1.1	11	1	.1	14	32910	8070	146	113	17	4	31
52217	4.2	9	2	.1	12	29880	9390	244	46	26	7	60
52218	3.0	8	2	.1	13	31230	10950	295	33	8	6	58
52219	2.0	9	1	.1	12	28820	8050	177	68	3	3	40
52220	1.6	6	1	.1	14	27970	5130	78	49	12	7	68
52221	1.4	15	1	.1	11	28070	4480	55	311	16	25	65
52222	1.5	16	1	.1	10	31420	4730	46	126	7	15	25
52223	1.0	14	1	.1	12	33900	7600	94	81	12	3	31
52224	.8	6	1	.1	15	35490	7190	144	88	1	9	35
52225	.8	6	1	.1	10	32430	8960	165	54	10	4	53
52226	.7	10	1	.1	12	33930	6540	166	136	7	14	41
52227	.9	7	1	.1	11	34050	8850	158	90	13	1	38
52228	1.0	3	1	.1	11	31380	10880	232	68	21	1	43
52229	1.2	6	1	.1	12	32600	11370	242	75	22	2	53
52230	1.4	9	1	.1	12	33420	9810	236	42	14	3	44
52236	1.3	12	1	.1	11	32280	8560	189	104	14	1	30
52237	2.0	15	1	.1	11	30310	10180	314	100	17	1	55
52238	1.7	15	1	.1	11	25760	6320	247	119	19	5	32
52239	1.7	21	1	.1	11	26740	6870	251	117	21	4	34
52240	1.3	9	1	.1	14	32380	7530	257	91	23	1	40
52241	1.5	18	1	.1	10	27700	6320	205	168	19	18	36
52242	1.6	26	1	.1	15	26290	3440	381	49	24	23	35
52243	.9	8	1	.1	30	50070	10550	634	8	27	1	67
52244	1.3	4	2	.1	28	57300	18320	852	9	21	5	77
52245	1.5	10	2	.1	32	54880	16100	967	14	25	12	79

COMP: EL CONDOR
PROJ: SOUTH KEMESS
ATTN: MARK 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-1909-RJ3
DATE: 91/01/14
* DRILL CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BI PPM	CD PPM	CO PPM	FE PPM	MG PPM	MN PPM	MO PPM	PB PPM	SB PPM	ZN PPM
52246	.6	1	2	.1	26	49140	16560	1001	2	28	20	57
52247	.6	1	3	.1	20	61280	25860	875	1	25	3	100
52248	.9	1	3	.1	22	54520	28790	1085	3	18	6	88
52249	1.1	1	5	.1	30	60130	28240	1141	3	14	5	82
52250	.8	1	3	.1	31	57770	19950	694	5	11	2	62
52251	.8	2	3	.1	27	51010	16720	781	4	13	3	44
52252	1.7	1	10	.1	22	49910	21080	633	1	11	2	51
52253	1.9	8	9	.1	20	40510	21880	587	1	14	6	49
52254	2.0	1	11	.1	24	52660	28310	751	1	10	5	69
52255	2.0	1	10	.1	22	51650	28920	804	1	12	6	68
52256	1.9	8	10	.1	21	43740	21530	678	1	13	5	54
52257	1.9	1	10	.1	20	41600	22390	576	1	11	4	51

COMP: CEC ENGRG.
PROJ: KEMESS SOUTH
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: 1S-0008-RJ1
DATE: 91/02/12
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CO PPM	FE PPM	K PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	SN PPM
52231	.9	9	392	12	33000	7920	43	1	25	4	44	1
52232	1.0	4	193	13	32700	7020	45	1	21	2	38	1
52233	1.0	10	353	12	33330	7420	47	1	22	2	37	1
52234	1.2	8	478	13	33400	8660	76	1	23	2	60	1
52235	1.0	8	387	10	28740	7510	116	1	21	1	29	1

APPENDIX III

Analytical Procedures

MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

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 C, 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 2 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.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

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TELEX: VIA USA 7601067
FAX: (604) 980-9621

MINERAL
ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ANALYTICAL PRECEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR WET GOLD GEOCHEMICAL ANALYSIS

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

After drying the samples at 95 C, 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.

5.00 grams of sample is weighed into porcelain crucibles and cindered @ 800 C for 3 hours. Samples are then transferred to beakers and digested using aqua regia, diluted to volume and mixed.

Further oxidation and treatment of 75% of the above solution is then extracted for gold by Methyl Iso-butyl Ketone.

The MIBK solutions are analyzed on an atomic absorption spectrometer using a suitable standard set.

OFFICE AND LABORATORIES:
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MINERAL
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Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR AG, CU, PB, ZN, NI, CO OR CD GEOCHEM

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

After drying the samples at 95 C, 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 jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analysed on atomic absorption spectrometers using the appropriate standard sets. A background correction can be applied to Ag, Pb, and Cd if requested.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

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TELEX: VIA USA 7601067
FAX: (604) 980-9621

MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ELEMENT	DIGESTION	METHOD	DETECTION LIMIT
Ag PPM	Aqua Regia	ICP-AES	0.1
Al PPM	Aqua Regia	ICP-AES	1
As PPM	Aqua Regia	ICP-AES	1
B PPM	Aqua Regia	ICP-AES	1
BA PPM	Aqua Regia	ICP-AES	1
Be PPM	Aqua Regia	ICP-AES	0.1
Bi PPM	Aqua Regia	ICP-AES	1
Ca PPM	Aqua Regia	ICP-AES	10
Cd PPM	Aqua Regia	ICP-AES	0.1
Co PPM	Aqua Regia	ICP-AES	1
Cu PPM	Aqua Regia	ICP-AES	1
Fe PPM	Aqua Regia	ICP-AES	10
K PPM	Aqua Regia	ICP-AES	10
Li PPM	Aqua Regia	ICP-AES	10
Mg PPM	Aqua Regia	ICP-AES	10
Mn PPM	Aqua Regia	ICP-AES	1
Mo PPM	Aqua Regia	ICP-AES	1
Na PPM	Aqua Regia	ICP-AES	10
Ni PPM	Aqua Regia	ICP-AES	1
P PPM	Aqua Regia	ICP-AES	10
Pb PPM	Aqua Regia	ICP-AES	1
Sb PPM	Aqua Regia	ICP-AES	1
Sr PPM	Aqua Regia	ICP-AES	1
Th PPM	Aqua Regia	ICP-AES	1
U PPM	Aqua Regia	ICP-AES	1
V PPM	Aqua Regia	ICP-AES	0.1
Zn PPM	Aqua Regia	ICP-AES	1
Ga PPM	Aqua Regia	ICP-AES	1
Sn PPM	Aqua Regia	ICP-AES	1
W PPM	Aqua Regia	ICP-AES	1
Cr PPM	Aqua Regia	ICP-AES	1
Au PPB	Fire Assay-Aqua Regia	AAS	1
Au PPB	Aqua Regia-MIBK	AAS	5
Hg PPB	Aqua Regia	AAS-Flameless	5
Tl PPB	Aqua Regia-MIBK	AAS	20
F PPM	Fusion	Specific Ion	2

OFFICE AND LABORATORIES:
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Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B. C., laboratory employing the following procedures:

After drying the samples at 95 C, 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 and pulverized on a ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

OFFICE AND LABORATORIES:
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MINERAL
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LABORATORIES

Division of Assayers Corp. Ltd.

GOLD ASSAY PROCEDURE:

Samples are dried @ 95 C 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 - 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 3 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.