

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 90.02.23

ASSESSMENT REPORT 18449

MINING DIVISION: Liard

PROPERTY: Arc
LOCATION: LAT 56 48 00 LONG 130 48 00
UTM 09 6296355 390071
NTS 104B15W
CLAIM(S): Arc 8-10, Mon 5-6
OPERATOR(S): Kestrel Res.
AUTHOR(S): Cournoyer, R.D.
REPORT YEAR: 1989, 34 Pages
COMMODITIES
SEARCHED FOR: Gold, Silver
KEYWORDS: Andesite, Pyroclastics, Limestone, Dolomite, Granite, Diorite, Pyrite
Chalcopyrite, Magnetite, Hematite, Barite
WORK
DONE: Prospecting, Geochemical
PROS 2000.0 ha
Map(s) - 1; Scale(s) - 1:10 000
ROCK 43 sample(s) ;AU,AG
SILT 15 sample(s) ;AU,AG

REPORT ON THE
ARC 8, 9, 10 and MON 5, 6
1988 PROSPECTING PROGRAM

SUB-RECORDER
RECEIVED
FEB 23 1989
M.R. #..... \$.....
VANCOUVER, B.C.

ISKUT RIVER AREA
Liard Mining Division
British Columbia

LOG NO:	0228	RD.
ACTION:		
FILE NO:		

at

56° 47' North Latitude
130° 48' West Longitude

FILMED

For

KESTREL RESOURCES LTD.

By

RAYMOND D. COURNOYER, PROSPECTOR

February 16, 1989

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SUMMARY

A preliminary program of prospecting and sampling was completed on the Arc 8, 9, 10 and Mon 5, 6 mineral claims during the summer of 1988 to evaluate the property for Kestrel Resources Ltd.

A base camp was established at the headwaters of Forrest Kerr Creek from which a helicopter was utilized to access the claims. A total of 43 rock chip samples and 15 silt samples were collected.

The claims cover a coastal pluton cut with numerous andesite-diorite dykes and a limestone unit on the eastern part of the property. Assays returned values of up to 50 ppb gold and 5.4 ppm silver. Results of the 1988 program are discussed in the text of this report and data is plotted on accompanying maps.

INTRODUCTION

The Arc 8, 9, 10 and Mon 5, 6 Mineral Claims, a total of 100 units, were staked in February of 1988 and March of 1987 respectively. The claims are situated 9 kilometres southeast of Newmont Lake in the Iskut River area (N.T.S. 104 B/15W).

The claims cover favourable geology east of Gulf International Minerals' McLymont Claims, where high grade veins of quartz-pyrite-chalcopyrite are presently being explored.

A program of preliminary prospecting and sampling was conducted by Rangex Services during the summer of 1988 to evaluate the potential of the property.

LOCATION, ACCESS AND GEOGRAPHY

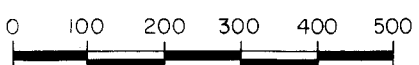
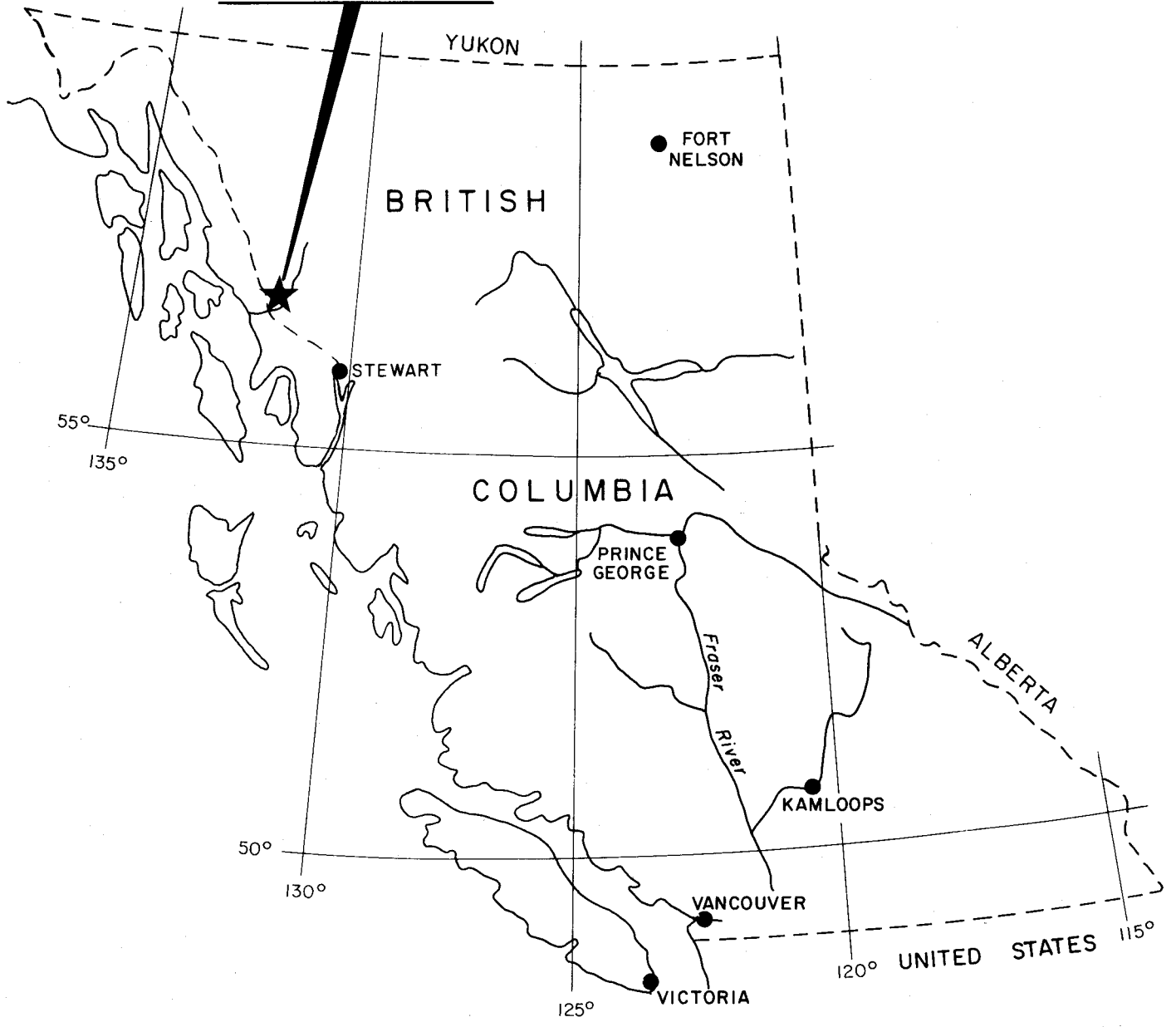
The claim group is situated approximately 125 km north of Stewart, B.C. centered at 56° 47' north latitude 130° 48' west longitude in the Liard Mining Division of British Columbia (NTS 104B/15W).

Access to the claims is via helicopter from a base camp at the headwaters of Forrest Kerr Creek, 56° 56' north longitude, 130° 48' west longitude. Regular fixed wing flights from Smithers, B.C. service the Forrest Kerr camp.

Topographically, the Iskut area is extremely rugged, ranging in elevations from 100 metres to in excess of 2,000 metres. Spruce and alder represent the general vegetation while above treeline (900-1,000 m) alpine vegetation such as white and purple heather are present.

The Arc 8, 9, 10 and Mon 5, 6 claims are centered 9 kilometres southeast of Newmont Lake. The claims lie between 600 and 1,700 metres extending 9 kilometres in a north-south direction. Drainages are generally steep sided with thick slide alder, while hillsides support thick spruce growth. The eastern sides of Arc 8, 9, and 10 are bordered by glaciers and permanent snow fields.

**ISKUT RIVER
MINERAL CLAIMS**



KESTREL RESOURCES LTD.		
ISKUT RIVER MINERAL CLAIMS		
INDEX MAP		
LIARD MINING DIVISION, B.C.		
RANGEX SERVICES		
Drawn By: Meridian Map		FIG.
Scale 1:10,000,000	Date: February 1989	1

The area receives heavy precipitation, snow in excess of 20 feet being common during the winter. The field season extends from June to mid-October.

CLAIM INFORMATION

The Arc 8, 9, 10 and Mon 5, 6 mineral claims consisting of 100 units are owned by Kestrel Resources Ltd.

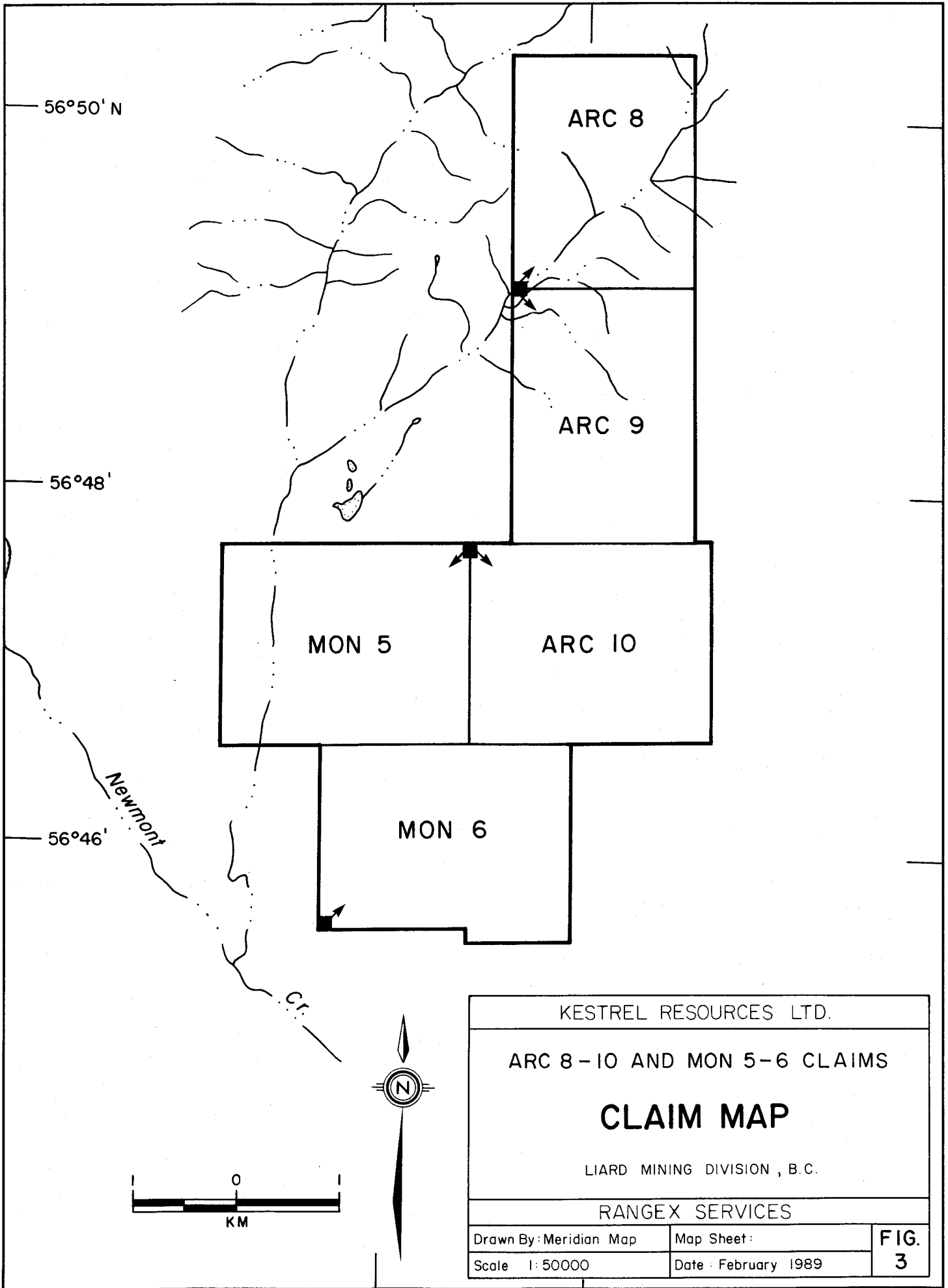
Claim data is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record #</u>	<u>Record Date</u>
Arc 8	20	4497	February 24, 1988
Arc 9	20	4498	February 24, 1988
Arc 10	20	4499	February 24, 1988
Mon 5	20	3997	March 26, 1987
Mon 6	20	3998	March 26, 1987

AREA HISTORY

There is no recorded work from the Iskut River region prior to 1907 when a staking party from Wrangell, Alaska, recorded nine mineral claims north of Johnny Mountain. Iskut Mining Company worked these crown granted claims undertaking trenching and drifting on veins yielding Galena, gold and silver. The 1917 Minister of Mines annual report states the Iskut Mining Company shipped a ton of ore which yielded, in 1917 currency, \$1.20 in gold, 44.2 ounces of silver and 12.45 percent copper.

Hudson Bay Mining & Smelting Ltd. located high grade gold, silver and lead in float during 1954. This was known as the Pick Axe showing and forms part of Skyline Explorations Stonehouse Gold deposit on Johnny Mountain.



Throughout the 1960's several major mining companies undertook exploration programs in the Johnny Mountain and Sulphurets Creek region. This work resulted in the discovery of several porphyry copper-molybdenum targets. Cominco completed several core holes on Johnny Mountain in 1965.

Skyline staked and the Inel property in 1969 following the discovery of massive sulphide in float on the Bronson Glacier and later in 1980 restaked the Reg property. During the period of 1981 to present Skyline has developed both these properties discovering high grade veins and polymetallic massive sulphide mineralization on the Inel and Reg properties.

As of January, 1988, GROVE, E.W., reported reserves from the Stonehouse Gold Deposit of 851,170 tons grading 25.0 Au g/tonne 29.1 Ag g/tonne and 0.76% Cu.

Delaware Resources Ltd. completed 10,000 metres of diamond drilling on their Cominco Snip claims located directly north of the Stonehouse Gold Deposit. This exploration resulted in estimated reserves of 997,810 tonnes grading 24.0 Au g/tonne. During the 1988 season an underground program was initiated on this deposit.

Newmont Mining Corporation of Canada Ltd. staked 324 claims (Dirk Claim Group) west of Newmont Lake in 1962. An exploration program of geological mapping, airborne and ground magnetics survey, sampling and diamond drilling was conducted to explore the skarn type mineralization discovered on the Dirk and Ken showings. Intersections of 0.23% Cu and 3.4 Ag g/tonne over 15.85 metres were reported from the Ken showing while Hole 4 on the Dirk showing returned assays of 0.30% Cu over 1.83 metres.

Gulf International Minerals staked the McLymont claims south of Newmont Lake in 1986. These claims had been staked by Dupont Canada Explorations Ltd. in 1980 as the Warrior claims and optioned to Skyline Explorations Ltd. and Placer Development Ltd. Exploration has extended the existence of quartz - pyrite - chalcopyrite veins which retain values of up to 102.8 Au g/tonne. Gulf International Minerals has conducted extensive diamond drilling on the McLymont claims reporting in their 1987 Annual Report, drilling results of up to 55.0 Au g/tonne, 1,362.1 Ag g/tonne and 0.97% Cu over 11.12 metres.

A number of exploration companies examined claims in the Arctic Lake area approximately 75 kilometres north of the Skyline Cominco deposits.

Kennco Exploration conducted a program of geological mapping on the Bam Claim group in 1965. Mitsui Mining and Smelting Co. Ltd. undertook geological mapping and silt sampling in the Arctic and Big A Groups during 1968.

REGIONAL GEOLOGY

The Iskut area lies within a complex geological setting of the Circum-Pacific orogenic belt of North America. Specifically it forms a part of the geological setting defined by Grove as the Stewart Complex. Grove E.W. (1986) states the following:

"The Stewart Complex lies along the contact between the Coast Plutonic Complex on the west, the Bowser Basin on the east, Alice Arm on the south and the Iskut River on the north."

Government workers have attempted, since 1948, to clarify relationships and assign ages to the various lithological units of the area, and to trace structural events affecting these units. This work has not been entirely successful, however, due to the extremely inaccessible terrain and difficult physical conditions confronting workers.

Mineral exploration studies carried out by private companies have added significantly to the geological knowledge of the area, but are not generally available publicly. Work completed by Kerr, 1948, G.S.C. Memoir 246; G.S.C maps 9-1957 and 1418-1979 - "Iskut River", form the basis of government mapping. Private companies active in the area since the early 60's include Newmont, Kennco, Cominco, Skyline and others too numerous to list.

The oldest known rocks of the area are limestone, dolomite and low grade metamorphosed sediments (quartzite, slates, phyllite) of lower Cambrian age that have been correlated with the Cache Creek Group prevalent in the southern half of the province. The limestone unit contains fossil crinoids and is unconformably

overlain by upper Triassic Hazelton Volcanics and sediments. Bivalve fossils found west of Newmont Lake date these rocks as late Triassic and correlation of these rocks with both Stuhini volcanics and Unuk River formation has been attempted by various workers.

Overlying the Triassic Hazelton volcanic-sedimentary assemblage is a similar group of volcanic-sedimentary rocks of middle Jurassic age named the Betty Creek Formation.

Cretaceous to Tertiary Coast Plutonic intrusions of granite, granodiorite, and diorite occupy large plutons of the map area. In addition smaller bodies of monzonite or syenite as well as subvolcanic acidic porphyries are sparsely distributed.

Tufa, hot spring deposits and pyroclastic material of Pleistocene and Recent age occur at several localities within the area, notably at Hoodoo Mountain.

Schistose rocks, although present in the area are not of great lateral extent and owe their origin to deformation metamorphism, rather than high temperature regional metamorphism.

Structurally, the map area is bisected by a prominent thrust fault along the Iskut River from Forrest Kerr Creek to the Stikine River Junction. The thrust separates unconformably, Mississippian-Pennsylvanian rocks from middle Jurassic strata and is thought to override rock formations to the south. Regionally, a dominant northeast trending and a subdominant northwest trending fault system complicate the local geology, especially where folding of the strata, which is common, has occurred.

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

**QUATERNARY
RECENT**

- 20 Unconsolidated glacial and fluvial clay, silt, sand, gravel; till; peat, muskeg
- 19 Tufa, hot spring deposits
- 18 Olivine basalt, ash, cinders

**TERTIARY
PLEISTOCENE AND (?) EARLIER**

- 17 Basalt, rhyolite, ash, tuff, agglomerate; locally may include 16; 17a, rhyolite, pisolitic siliceous tuff, chalcidonic rhyolite breccia

EOCENE

- 16 Basalt, rhyolite and associated volcanic rocks; minor conglomerate, sandstone, shale

**CRETACEOUS AND TERTIARY
UPPER CRETACEOUS AND PALEOCENE**

- 15 Conglomerate, sandstone, shale, minor coal

**CRETACEOUS
POST LOWER CRETACEOUS**

- 14 Volcanic rocks, breccia

**JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS**

- 12 Argillite, greywacke, conglomerate, coal; 12a, andesite, chert; tuff, conglomerate, shale, greywacke

**JURASSIC
LOWER AND MIDDLE JURASSIC**

- 11 Conglomerate, greywacke, grit, siltstone, shale; 11a, may include younger rocks

TRIASSIC

- 8 Tuff, siltstone, limestone, conglomerate, breccia

PERMIAN AND/OR TRIASSIC

- 7 7, Volcanic and sedimentary rocks undivided; 7a, mainly andesitic and basaltic volcanic rocks; flows, breccia, tuff breccia, tuff; 7b, mainly greywacke, siltstone, conglomerate; 7c, mainly limestone

MESOZOIC

**CRETACEOUS AND /OR EARLIER
PRE UPPER CRETACEOUS**

- 13 Mainly volcanic rocks; minor conglomerate, greywacke; chert, argillite

**JURASSIC AND /OR EARLIER
PRE UPPER JURASSIC**

- 9 10 9. Mainly volcanic rocks; minor conglomerate; greywacke, argillite
- 10. Mainly sedimentary rocks

PALAEOZOIC

PERMIAN AND (?) EARLIER

- 6** Limestone, greenstone, chert, argillite, phyllitic quartzite, greywacke; meta-andesite and meta-diorite locally abundant near ultramafic bodies. May include younger greenstone; 6a, Carboniferous or Permian, mainly andesitic flows, breccia, tuff; minor sedimentary rocks

**DEVONIAN AND MISSISSIPPIAN
UPPER DEVONIAN AND MISSISSIPPIAN**

- 5** Chert, argillaceous quartzite, argillite, greywacke, greenstone, conglomerate, limestone

**DEVONIAN
MIDDLE DEVONIAN**

- 4** Limestone, dolomite, quartzite

**ORDOVICIAN AND SILURIAN
UPPER ORDOVICIAN AND LOWER SILURIAN**

- 3** Limestone, cherty limestone, quartzite, red and green chert, shale

**CAMBRIAN AND ORDOVICIAN
MIDDLE AND (?) UPPER CAMBRIAN, LOWER AND MIDDLE ORDOVICIAN**

- 2** Shale, phyllite, slate, calcareous slate, limestone

**CAMBRIAN
LOWER CAMBRIAN**

- 1** Limestone, dolomite, quartzite, slate, phyllite

INTRUSIVE ROCKS

- A** Felsite, felsite porphyry
- B** Mainly quartz monzonite, granodiorite, granite
- C** Mainly diorite; minor gabbro
- D** Granite porphyry, granophyre, syenite and related rocks
- E** Serpentinite, peridotite; locally includes meta-andesite and meta-diorite

METAMORPHIC ROCKS

TRIASSIC OR EARLIER

F Phyllite, sericite schist, hornfels, granulite, fine-grained biotite-hornblende gneiss; Fa, may include or be equivalent to 9

PERMIAN AND/OR EARLIER

PRE MIDDLE PERMIAN

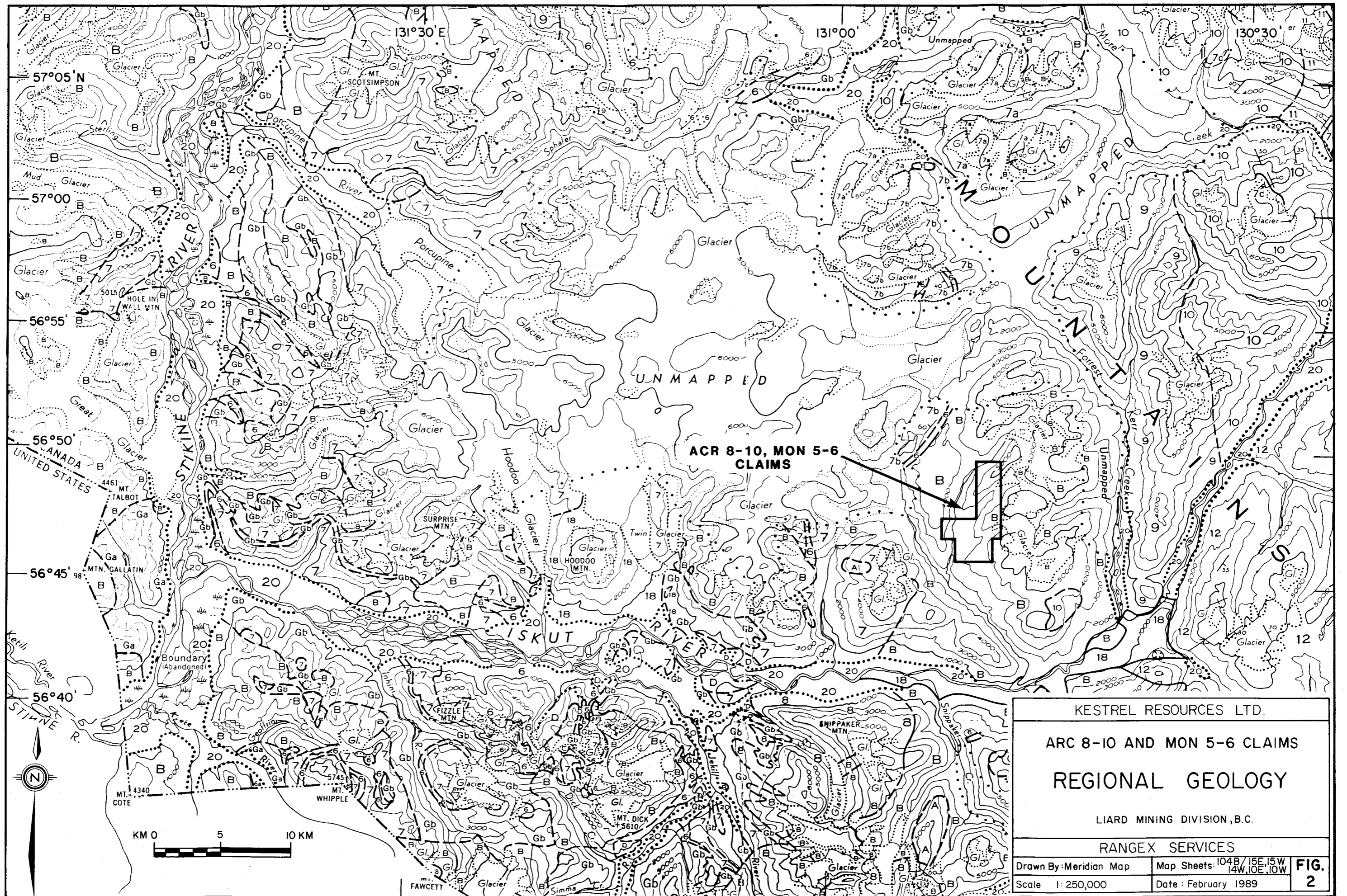
G Ga, Gneiss; Gb, phyllite, quartzite, minor crystalline limestone, highly altered and sheared greywacke and volcanic rock

MAINLY CARBONIFEROUS AND PERMIAN

H Biotite-quartz-feldspar gneiss, biotite-muscovite schist, crystalline limestone, greenstone, quartzite, phyllite

MISSISSIPPIAN AND EARLIER

J Gneiss, schist, crystalline limestone, crystalline dolomite, quartzite



KESTREL RESOURCES LTD.

ARC 8-10 AND MON 5-6 CLAIMS

REGIONAL GEOLOGY

LIARD MINING DIVISION, B.C.

RANGEX SERVICES

Drawn By: Meridian Map	Map Sheets: 104B/15E, 15W 14W, 10E, 10W	FIG. 2
Scale: 1:250,000	Date: February 1989	

PROPERTY EXPLORATION

A crew of seven people prospected and sampled the Arc 8, 9, 10 and Mon 5, and 6 mineral claims throughout the summer of 1988. Work was undertaken from Forrest Kerr Camp.

A total of 43 rock chip samples and 15 silt samples were collected from the property. The samples were shipped to Van Geochem Lab Ltd. for analysis for gold (ppb) and silver (ppm) using fire assay and atomic absorption techniques.

Sample locations and results are plotted on Figure 4. Analytical data is presented in Appendix IV.

PROSPECTOR'S REPORT

The Arc 8-10 and Mon 5-6 group is composed of a coastal pluton cut with numerous andesite-diorite dykes. A limestone unit is evident on the east side of the Arc 8 claim. There is also a NE-SW trending fault on the Arc 8 group.

Mineralization consists of pyrite, chalcopyrite, magnetite, hematite, barite, calcite, chlorite, and quartz present in the andesite-diorite dykes. Anomalous samples were:

<u>Claim</u>	<u>Sample #</u>	<u>Au(ppb)</u>	<u>Ag(ppm)</u>	<u>Description</u>
Arc 8	32302	30	-	quartz vein system, 20' x 100' in chlorite altered granite
Arc 9	32304	40	-	magnetite and pyrite in calcite within andesite dyke
Arc 9	32310	-	3.9	10% pyrite in chloritic vein 8' x 20'
Arc 9	32240	-	5.4	trace pyrite with copper stain adjacent to an andesite dyke

<u>Claim</u>	<u>Sample #</u>	<u>Au(ppb)</u>	<u>Ag(ppm)</u>	<u>Description</u>
Arc 10	32389	-	2.7	chalcopyrite, pyrite is siliceous alteration in monzonite 4' x 12'
Arc 10	32713	50	-	quartz vein in siliceous chlorite alteration zone near a feldspar porphyry dyke
Mon 5	32385	-	2.7	disseminated pyrite with malachite staining in a siliceous chloritic altered zone 2' x 30'

RECOMMENDATIONS

A continued program of prospecting and sampling with soil geochemistry in anomalous zones is recommended for the Arc 8-10, Mon 5, 6 claim group. A budget will be submitted when required.

APPENDIX I

PROGRAM COST

PROGRAM COSTS

Wages (July 4 - October 9, 1988)

Ray Cournoyer	6 days @ \$225.00/day	\$ 1,325.00
Ron Riedel	5 days @ \$200.00/day	1,000.00
Dave Hagemoen	8.5 days @ \$175.00/day	1,487.50
Ian Hagemoen	5.5 days @ \$250.00/day	1,375.00
Barry Foster	5 days @ \$200.00/day	100.00
K. Kaye	1.25 days @ \$200.00/day	250.00
J. Buccholtz	1 day @ \$225.00/day	<u>225.00</u>

Total Wages

\$ 5,762.50

Expenses

Room and board	3,900.44
Expendables	320.95
Rentals	113.57
Travel and accommodation	165.28
Freight	305.09
Expediting	126.00
Fixed wing	875.11
Helicopter	2,889.60
Assaying	665.00
Report costs	<u>1,000.00</u>

Total Expenses

10,361.04

TOTAL

\$16,123.54

APPENDIX II

BIBLIOGRAPHY

BIBLIOGRAPHY

Kerr, F.A. (1948): G.S.C. Memoir 246 Lower Stikine, Western Iskut River Areas, B.C.

Grove, E.W. (1986): Geological Report, Exploration and Development Proposal on the Skyline Exploration Ltd. Reg Property.

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Assessment Report 4150 Province of B.C.

Davis R.E. (1987): Progress Report McLymont Claim Group - News Release for Gulf International Minerals Ltd.

APPENDIX III

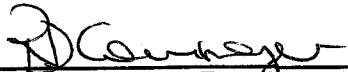
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, RAYMOND D.E. COURNOYER, of Site L, R.R. 1, Kispiox Valley Road, Hazelton, B.C. in the Province of British Columbia do hereby certify:

- 1) I am employed by Rangex Services with offices at 1124 - 470 Granville Street, Vancouver, B.C.
- 2) I am a graduate of the Ministry of Energy, Mines and Petroleum Resources' advanced prospecting course (1987).
- 3) I have practiced my profession of prospecting since 1980.
- 4) I have personally prospected the properties described within this report.
- 5) I have no interest in any of the properties described herein, nor do I expect to receive any such interest.
- 6) That I hereby authorize Kestrel Resources Ltd. to present this report or part thereof, in any prospectus or other documentation required by any regulatory body.

DATED at Vancouver, British Columbia, this 23 day of Feb , 1989.


RAYMOND D.E. COURNOYER

APPENDIX IV

ASSAY CERTIFICATES

REPORT #: 881865 DA

RANGEX Project: ARC 8

Page 1 of 1

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	H ppm	Ag oz/st	Au oz/st
32235	881056	--	--	--	--	0.1	10	--	--	--
32301	881056	--	--	--	--	0.1	<5	--	--	--
32302	881056	--	--	--	--	<0.1	30	--	--	--
32303	881056	--	--	--	--	<0.1	<5	--	--	--

Minimum Detection 650001 1 1 2 1 0.1 5 3 0.01 0.005
 Maximum Detection 999999 1000 20000 20000 20000 50.0 10000 1000 100.00 10.000
 < = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum

REPORT #: 881865 DA

RANGEI Project: ARC 9

Page 1 of 1

Sample Number	Jobno	Mo	Cu	Pb	Zn	Ag	Au	W	Ag	Au
		ppm	ppm	ppm	ppm	ppm	ppb	ppm	oz/st	oz/st
32236	881056	--	--	--	--	0.1	<5	--	--	--
32237	881056	--	--	--	--	0.1	20	--	--	--
32238	881056	--	--	--	--	0.1	<5	--	--	--
32239	881056	--	--	--	--	<0.1	<5	--	--	--
32240	881056	--	--	--	--	5.4	<5	--	--	--
32241	881056	--	--	--	--	<0.1	<5	--	--	--
32304	881056	--	--	--	--	0.1	40	--	--	--
32305	881056	--	--	--	--	<0.1	<5	--	--	--
32306	881056	--	--	--	--	1.1	<5	--	--	--
32307	881056	--	--	--	--	<0.1	<5	--	--	--
32308	881056	--	--	--	--	0.1	<5	--	--	--
32309	881056	--	--	--	--	0.5	<5	--	--	--
32310	881056	--	--	--	--	3.9	<5	--	--	--
32311	881056	--	--	--	--	0.3	<5	--	--	--
32312	881056	--	--	--	--	<0.1	<5	--	--	--
32313	881056	--	--	--	--	<0.1	<5	--	--	--
32314	881056	--	--	--	--	2.3	<5	--	--	--
32315	881056	--	--	--	--	0.3	<5	--	--	--
32316	881056	--	--	--	--	2.0	<5	--	--	--

Minimum Detection 650001 1 1 2 1 0.1 5 3 0.01 0.005
 Maximum Detection 999999 1000 20000 20000 20000 50.0 10000 1000 100.00 10.000
 < = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum

REPORT #: 881865 DA

RANGEX Project: ARC10

Page 1 of 1

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm	Ag oz/st	Au oz/st
32387	881190	--	--	--	--	0.1	<5	--	--	--
32388	881190	--	--	--	--	0.6	<5	--	--	--
32389	881190	--	--	--	--	2.7	<5	--	--	--
32390	881190	--	--	--	--	1.0	<5	--	--	--
32501	881192	--	--	--	--	<0.1	<5	--	--	--
32711	881190	--	--	--	--	0.3	<5	--	--	--
32712	881190	--	--	--	--	0.1	<5	--	--	--
32713	881190	--	--	--	--	0.2	50	--	--	--
32714	881190	--	--	--	--	<0.1	<5	--	--	--
32715	881190	--	--	--	--	<0.1	<5	--	--	--
32716	881190	--	--	--	--	<0.1	<5	--	--	--
32717	881190	--	--	--	--	<0.1	<5	--	--	--
32718	881190	--	--	--	--	<0.1	<5	--	--	--
32719	881190	--	--	--	--	<0.1	<5	--	--	--
32720	881190	--	--	--	--	<0.1	<5	--	--	--
32721	881190	--	--	--	--	0.2	<5	--	--	--
32722	881190	--	--	--	--	<0.1	<5	--	--	--
32723	881190	--	--	--	--	<0.1	<5	--	--	--

Minimum Detection 650001 1 1 2 1 0.1 5 3 0.01 0.005
 Maximum Detection 999999 1000 20000 20000 20000 50.0 10000 1000 100.00 10.000
 < = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum

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REPORT #: 881865 DA

RANGEX Project: MON 5

Page 1 of 1

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	H ppm	Ag oz/st	Au oz/st
32385	881190	--	--	--	--	2.7	<5	--	--	--
32386	881190	--	--	--	--	0.3	<5	--	--	--

Minimum Detection	650001	1	1	2	1	0.1	5	3	0.01	0.005
Maximum Detection	999999	1000	20000	20000	20000	50.0	10000	1000	100.00	10.000

< = Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum



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REPORT NUMBER: 881051 GA

JOB NUMBER: 881051

RANGEX SERVICES LTD. ARC 8

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SAMPLE #	Ag ppm	Au ppb
A-18RRS-17	nd	10
AI-8RRS-18	nd	nd
AI-8RRS-19	nd	15
RCS-22	nd	nd
RCS-23	nd	nd
RCS-24	.1	10
RCS-25	nd	10
RCS-26	nd	10
RCS-27	nd	nd

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 881241 GA

JOB NUMBER: 881241

RANGEX SERVICES LTD. Mon 5, 6 Arclio PAGE 1 OF 1

SAMPLE #	Ag ppm	Au ppb
A10-DHRC3-2	nd	nd
A10-DHRC3-3	nd	10
M5 RRS 26	.4	10
M5 RC 36	.1	15
M6 RC 37	.2	10
A10-RRS-27	.1	10

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

APPENDIX V

SAMPLE DESCRIPTIONS

SAMPLE DESCRIPTIONS - ARC 8

<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32235	Rock Chip	1 m	Quartz / calcite with chloritic alteration in dolomite
32301	"	1 m	Chloritic andesite with trace pyrite in monzonite
32302	"	1 m	Quartz stringer/vein system in chloritic andesite and granite
32303	"	50 cm	Calcite veins and carbonate in granitic rock

SAMPLE DESCRIPTIONS - ARC 9

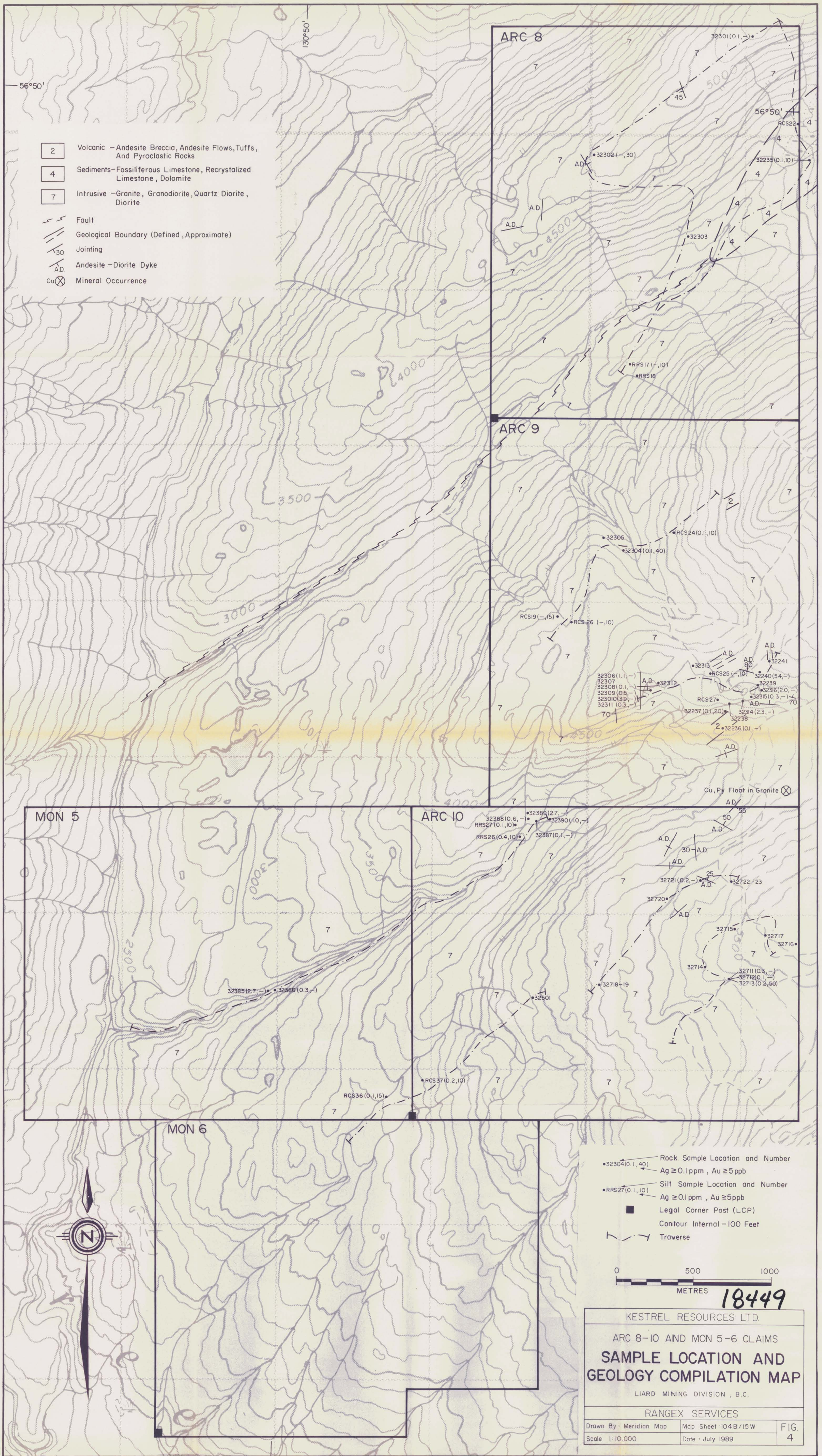
<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32236	Rock Chip	50 cm	Hematite fracture filling in quartz diorite/andesite
32237	"	1 m	Pyrite in chloritic andesite calcite alteration zone bordered by monzonite
32238	"	1 m	Pink dolomite in monzonite
32239	"	1 m	Trace pyrite in diorite
32240	"	1 m	Pyrite/chalcopyrite beside andesite dyke
32241	"	1 m	Pyrite/magnetite in andesite dyke
32304	"	50 cm	Pyrite/magnetite in andesite dyke with calcite stringers
32305	"	50 cm	Same as 32304
32306	"	1 m	Pyrite in chlorite altered monzonite
32307	"	50 cm	Same as 32306
32308	"	1.5 m	Same as 32306
32309	"	1 m	Same as 32306
32310	"	1 m	Same as 32306
32311	"	1 m	Same as 32306
32312	"	1 m	Pyrite in chloritic andesite dyke
32313	"	1.5 m	Chalcopyrite in monzonite with chlorite alteration in area of gossanous float
32314	"	1 m	Pyrite in monzonite
32315	"	50 cm	Pyrite/chalcopyrite in siliceous chlorite altered rock
32316	"	50 cm	Same as 32315

SAMPLE DESCRIPTIONS - ARC 10

<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32387	Rock Chip	50 cm	Quartz vein in monzonite
32388	"	50 cm	Pyrite/chalcopyrite/malachite in quartz vein
32389	"	50 cm	Chalcopyrite/pyrite/malachite in siliceous chloritic vein in monzonite
32390	"	50 cm	Vuggy quartz with pyrite/chalcopyrite
32501	"	1 m	Pyrite/calcite/chlorite in andesite
32711	"	1 m	Trace pyrite / chalcopyrite in frost rubble in chlorite altered porphyry, sparse mineralization
32712	"	1 m	Barite in frost rubble in chloritic andesite
32713	"	50 cm	Quartz vein in frost rubble
32714	"	50 cm	Trace pyrite along contact of andesite dyke and siliceous chloritic alteration zone
32715	"	50 cm	Hematite in barite vein
32716	"	1 m	Pyrite in monzonite
31717	"	50 cm	Pyrite and hematite in barite vein
32718	"	1 m	Trace pyrite in andesite with hematite and magnetite
32719	"	50 cm	Pyrite in fracture filling
32720	"	1 m	Barite breccia in chloritic andesite with quartz and hematite
32721	"	50 cm	Pyrite in andesite near contact with monzonite
32722	"	50 cm	Barite, hematite/quartz vein exposed for 12 m
32723	"	50 cm	Same as 32722

SAMPLE DESCRIPTIONS - MON 5

<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32385	Float		Float from shear zone, siliceous chloritic alteration with large pyrite cubes
32386	Rock Chip	50 cm	Calcite vein in shear zone



- 2 Volcanic - Andesite Breccia, Andesite Flows, Tuffs, And Pyroclastic Rocks
- 4 Sediments - Fossiliferous Limestone, Recrystallized Limestone, Dolomite
- 7 Intrusive - Granite, Granodiorite, Quartz Diorite, Diorite
- Fault
- Geological Boundary (Defined, Approximate)
- 30 Jointing
- A.D. Andesite - Diorite Dyke
- Cu ⊗ Mineral Occurrence

- 32304 (0.1, 40) Rock Sample Location and Number
Ag ≥ 0.1 ppm, Au ≥ 5 ppb
- RRS 27 (0.1, 10) Silt Sample Location and Number
Ag ≥ 0.1 ppm, Au ≥ 5 ppb
- Legal Corner Post (LCP)
- Contour Interval - 100 Feet
- Traverse



18449

KESTREL RESOURCES LTD.
 ARC 8-10 AND MON 5-6 CLAIMS
**SAMPLE LOCATION AND
 GEOLOGY COMPILATION MAP**
 LIARD MINING DIVISION, B.C.

RANGEX SERVICES
 Drawn By: Meridian Map Map Sheet: 104B/15W FIG. 4
 Scale: 1:10,000 Date: July 1989