

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 90.02.23

ASSESSMENT REPORT 18450

MINING DIVISION: Liard

PROPERTY: Tic
LOCATION: LAT 56 53 00 LONG 130 47 00
UTM 09 6305603 391330
NTS 104B15W
CLAIM(S): Tic 2-5
OPERATOR(S): Kestrel Res.
AUTHOR(S): Cournoyer, R.D.
REPORT YEAR: 1989, 38 Pages
COMMODITIES
SEARCHED FOR: Gold, Silver
KEYWORDS: Argillite, Limestone, Shearing, Pyrite, Chalcopyrite, Magnetite
Auriferous, Monzonite, Syenite
WORK
DONE: Prospecting, Geochemical
PROS 1775.0 ha
Map(s) - 2; Scale(s) - 1:10 000
ROCK 119 sample(s) ;ME
SILT 22 sample(s) ;ME
INFILE: 104B

LOG NO: 0726	RD. 2
ACTION: Date received report back from amendments.	
FILE NO:	

LOG NO: 0228	RD.
ACTION:	
FILE NO:	

REPORT ON THE

TIC 2, 3, 4, 5 MINERAL CLAIMS

1988 PROSPECTING PROGRAM

ISKUT RIVER AREA

56° 53' North Latitude
130° 47' West Longitude

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

FILMED

in the

Liard Mining Division
British Columbia

For

KESTREL RESOURCES LTD.

By

RAYMOND D. COURNOYER, PROSPECTOR

February 16, 1989

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,450

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SUMMARY

A program of prospecting and sampling was conducted on the Tic 2-5 mineral claims during the summer of 1988 for Kestrel Resources Ltd.

A base camp was established at the headwaters of Forrest Kerr Creek and a helicopter was utilized to access the property. A total of 119 rock chip samples and 22 silt samples were collected.

The Tic 2-5 mineral claims are underlain by argillites and monzonite and syenite intrusives. A quartz stockwork system in the center of the claim block returned numerous values up to .411 opt gold and 7.74 opt silver.

INTRODUCTION

The Tic 2-5 mineral claims, a total of 71 units, were staked in February of 1988. The claims are situated 8 kilometres northeast of Newmont Lake in the Iskut River area of British Columbia (N.T.S. 104 B/15).

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

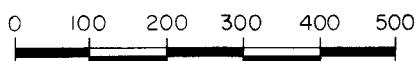
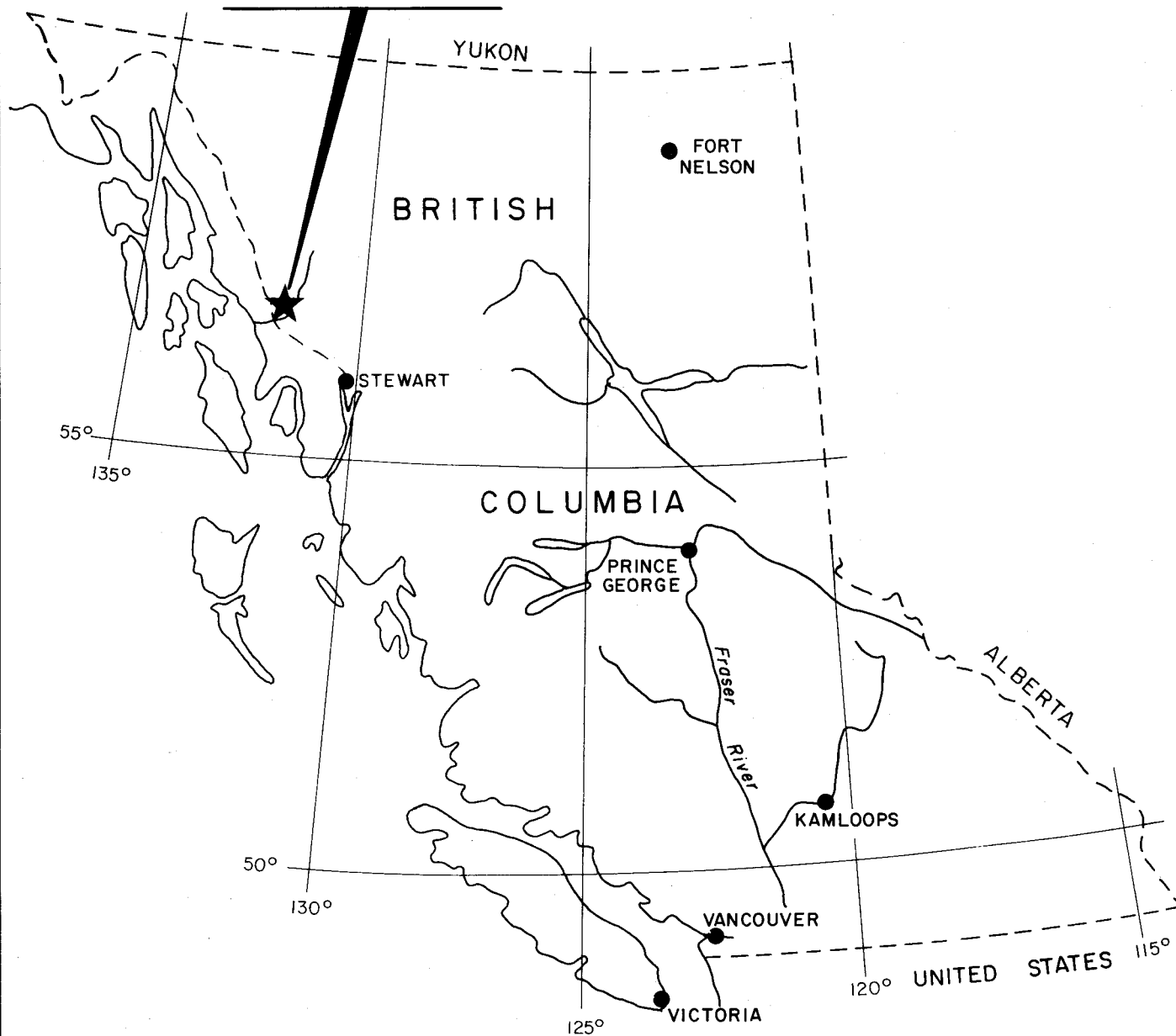
The claim group is situated approximately 130 km north of Stewart, B.C. centered at 56° 53' north latitude and 130° 47' west longitude in the Liard Mining Division of British Columbia.

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 Tic 2-5 claims are situated 8 km northeast of Newmont Lake between the elevations of 700 metres on the northwest corner of Tic 4 to 2000 metres on Tic 2. The claims lie above treeline and are partly covered by glaciers to the south and east.

ISKUT RIVER MINERAL CLAIMS



KESTREL RESOURCES LTD.

ISKUT RIVER MINERAL CLAIMS

INDEX MAP

LIARD MINING DIVISION, B.C.

RANGEX SERVICES

Drawn By: Meridian Map

Scale 1:10,000,000

Date: February 1989

FIG.

1

The area receives heavy precipitation, snow in excess of 6 metres being common during the winter. The field season extends from June to mid-October.

CLAIM INFORMATION

The Tic 2-5 mineral claims consisting of 71 units are owned by Kestrel Resources Ltd.

Claim data is as follows:

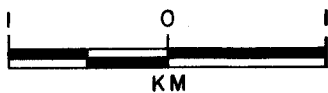
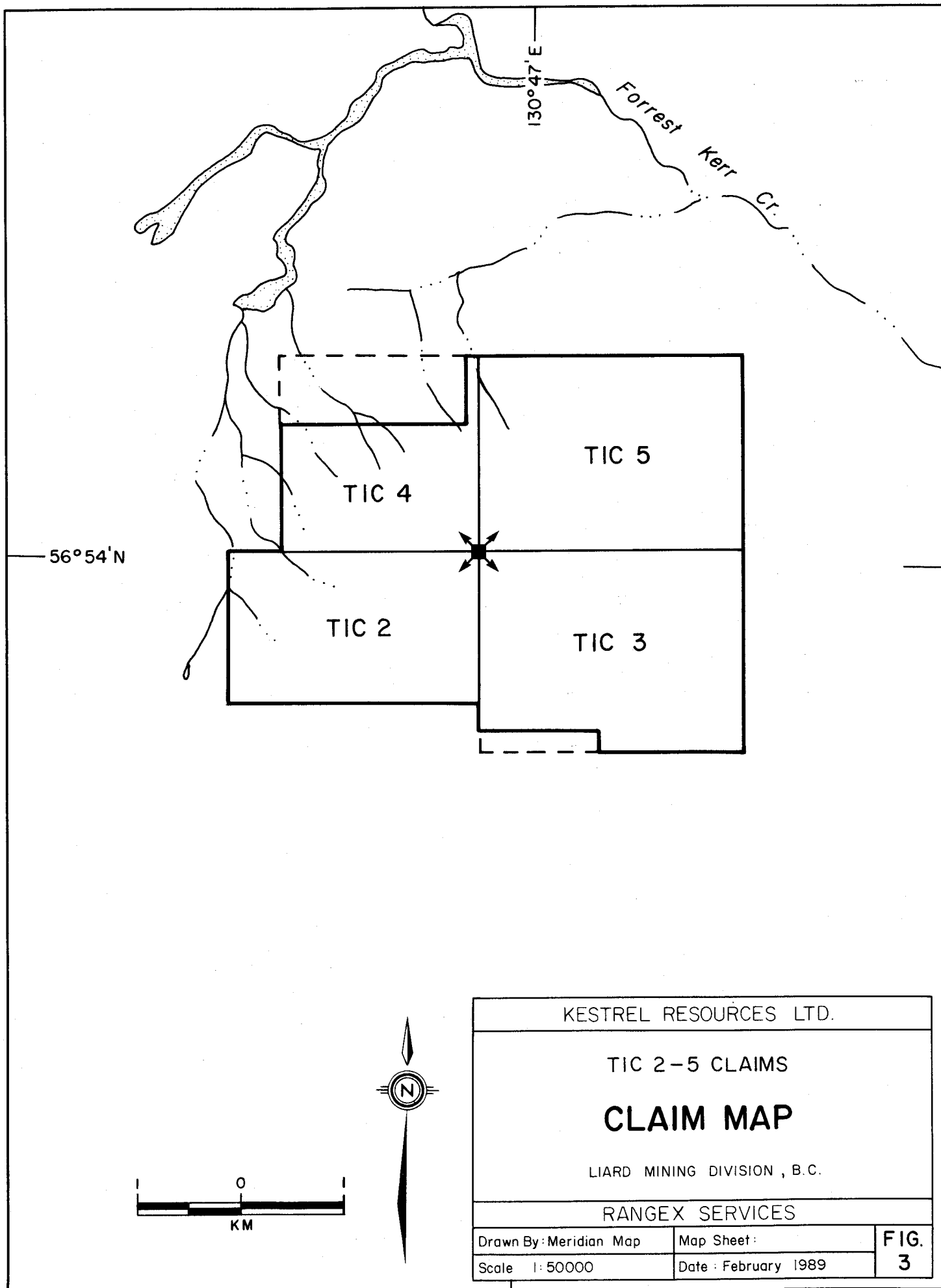
<u>Claim Name</u>	<u>Units</u>	<u>Record #</u>	<u>Record Date</u>
Tic 2	15	4501	February 24, 1988
Tic 3	20	4502	February 24, 1988
Tic 4	16	4503	February 24, 1988
Tic 5	20	4504	February 24, 1988

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.



KESTREL RESOURCES LTD.		
TIC 2-5 CLAIMS		
CLAIM MAP		
LIARD MINING DIVISION, B.C.		
RANGEX SERVICES		
Drawn By: Meridian Map	Map Sheet:	FIG. 3
Scale 1: 50000	Date: February 1989	

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.

PROPERTY EXPLORATION

A crew of seven people prospected and sampled the Tic 2-5 mineral claims throughout the summer of 1988. Work was undertaken from Forrest Kerr Camp.

A total of 119 rock samples and 22 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, geochemical assay, and atomic absorption techniques. Twenty-six of these samples were also assayed using ICAP geochemical analysis.

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, chalc-donic 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 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** Serpentine, 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

Sample locations and results of analytical data are plotted on Figures 4. Assay results are presented in Appendix IV.

PROSPECTOR'S REPORT

The Tic 2-5 claim group is made up argillites and shales with some underlying limestone to the north and west. To the south and east the rock units are predominantly intrusives mostly monzonites and syenites. There is a major north-south fault present on the northeast side of the claim block. Mineralization occurs in zones of alteration along shears on the northern part of the property. These zones contain pyrite, chalcopyrite, magnetite, calcite, quartz, chlorite and epidote. A quartz stockwork system occurs in the centre of the claim block. Quartz veins vary in widths from a few centimeters to 1 meter wide and extend to 10 metres in length striking at 020° and dipping to the northwest. These veins carry anomalous gold and silver values. The stockwork is hosted by altered andesite with syenite dykes which trend 130° to 150°. This area lies at 1,850 metres and runs east along a ridge for approximately 1 kilometre.

A second area of interest is situated on the west side of the Tic 2 and 4 claims. This zone consists of restructured limestone and dolomite with evidence of altered volcanics, both andesite and basalt. A zone of bedded sediment is also present with pyrite veins up to 2½ metres wide carrying galena and barite. The bedded sediments showed extreme folding and reworking with bands of argillite and smaller bands of jasper. Anomalous gold values were found in the calcite veins with chalcopyrite and bornite.

Anomalous values in the quartz stockwork were:

<u>Claim</u>	<u>Sample #</u>	<u>Au(ppb)</u>	<u>Ag(ppm)</u>	<u>Description</u>
Tic 4	32358	4210	32	10 cm x 10 metre quartz vein with pyrite and chalcopyrite
	32359	10,000	50	South end of 32358 vein

<u>Claim</u>	<u>Sample #</u>	<u>Au(ppb)</u>	<u>Ag(ppm)</u>	<u>Description</u>
Tic 4	32360	4010	50	Center of 32358 vein
	32361	10,000	27	Quartz vein with pyrite chalcopryite, malachite 10 cm x 2 metres
	32427	440	13.9	Resample of 32361
	32432	4830	14.5	Quartz vein with pyrite and chalcacite
	32436	8360	50	Pyrite in quartz vein
	32437	4760	16.5	Extension of 32436
	32438	10,000	50	North end of vuggy quartz vein with pyrite 12 cm x 2 metres
	32439	600	-	South end of 32438
	32440	4010	15.1	Pyrite in 10 cm x 1 metre quartz vein
	32441	2040	19.9	Pyrite in 10 cm x 1 metre quartz vein
	32442	4350	27.0	Pyrite and malachite in quartz vein
	32443	5000	37	Quartz vein
	32444	9180	31	Quartz vein
	32624	10,000	31.0	Pyrite, malachite in quartz vein
Tic 2	32357	10,000	45.0	Unmineralized quartz vein
	32445	6,200	25.0	Resample of 32357
	32446	4,280	14.6	Pyrite and malachite in quartz vein
	32447	5480	23	Pyrite, chalcopryite, malachite in quartz vein
	32448	8910	40	Same vein as 32447
Tic 5	32628	2160	-	Malachite staining in quartz vein

Anomalous values in the sedimentary unit were:

<u>Claim</u>	<u>Sample #</u>	<u>Au(ppb)</u>	<u>Ag(ppm)</u>	<u>Description</u>
Tic 4	32104	360	50	Altered argillite with chalcocite, azurite, malachite, and chalcopyrite
	32132	210	-	Chalcopyrite in fracture
	32134	300	11.8	Chalcopyrite in calcite vein with 15% bornite
	32135	1115	-	Same as 32134
	32140	-	17.3	Pyrite, chalcopyrite, bornite in float

RECOMMENDATIONS

Further work recommendations are as follows:

1. Continued prospecting and sampling.
2. Grid establishment over the quartz stockwork followed by a closely spaced sampling program of every vein and geological mapping.
3. A geochemical program at lower elevations.

A budget will be submitted when required.

APPENDIX I

PROGRAM COST

PROGRAM COSTS

Tic 2-5

Wages (July 4 - October 9, 1988)

Ray Cournoyer	4.5 days @ \$225.00/day	\$ 1,012.50
Ron Riedel	10.5 days @ \$200.00/day	2,100.00
Dave Hagemoen	3.5 days @ \$175.00/day	612.50
John Buccholtz	3 days @ \$225.00/day	675.00
Barry Foster	1 day @ \$200.00/day	200.00
Kelly Kaye	1.5 days @ \$200.00/day	300.00
Ian Hagemoen	6 days @ \$250.00/day	<u>1,500.00</u>

Total Wages

\$ 6,400.00

Expenses

Room and board	4,035.01
Expendables	340.79
Rentals	120.60
Travel and accommodation	175.51
Freight	659.20
Expediting	133.80
Fixed wing	875.13
Helicopter	1,788.50
Assaying	1,825.25
Report costs	750.00
Subcontracts	<u>703.06</u>

Total Expenses

11,396.85

TOTAL

\$17,796.85

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.

Castin, C.T. (1973): Report on Geological, Geophysical and Physical Work Dirk Claim Group Newmont Mines.

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

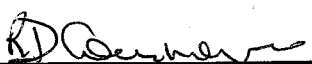
STATEMENT OF QUALIFICATIONS

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
1989.

23 day of Feb ,


RAYMOND D.E. COURNOYER

APPENDIX IV

ASSAY CERTIFICATES

REPORT #: 881865 DA

RANGEX Project: TIC 2

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
32356	881109	--	--	--	--	<0.1	<5	--	--	--
32357	881109	--	--	--	--	45.0	>10000	--	1.27	0.359
32357	881588	--	--	--	--	--	--	--	--	--
32445	881588	--	--	--	--	--	--	--	--	--
32445	881340	--	--	--	--	25.0	6200	--	--	0.175
32446	881588	--	--	--	--	--	--	--	--	--
32446	881340	--	--	--	--	14.6	4280	--	--	0.123
32447	881588	--	--	--	--	--	--	--	--	--
32447	881340	--	--	--	--	23.0	5480	--	--	0.140
32448	881588	--	--	--	--	--	--	--	--	--
32448 +	881340	--	--	--	--	40.0	8910	--	--	0.226
32463	881340	--	--	--	--	<0.1	<5	--	--	--
32464	881340	--	--	--	--	<0.1	<5	--	--	--
32465	881340	--	--	--	--	<0.1	<5	--	--	--
32466	881340	--	--	--	--	0.2	10	--	--	--
32467	881340	--	--	--	--	--	1	--	--	--
32468	881340	--	--	--	--	0.2	20	--	--	--

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: TIC 4

Page 1 of 3

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm	Ag oz/st	Au oz/st
32001	880696	--	--	--	--	0.1	60	--	--	--
32051	880696	--	--	--	--	0.3	30	--	--	--
32052	880696	--	--	--	--	0.7	30	--	--	--
32100	880845	--	--	--	--	8.0	50	--	--	--
32101	880845	--	--	--	--	<0.1	<5	--	--	--
32102	880845	--	--	--	--	2.9	20	--	--	--
32103	880845	--	--	--	--	6.4	40	--	--	--
32104	880845	--	--	--	--	>50.0	360	--	--	--
32105	880845	--	--	--	--	2.0	5	--	--	--
32130	880916	--	--	--	--	2.0	50	--	--	--
32131	880916	--	--	--	--	0.8	10	--	--	--
32132	880916	--	--	--	--	1.7	210	--	--	--
32133	880916	--	--	--	--	1.0	<5	--	--	--
32134	880916	--	--	--	--	11.8	300	--	--	--
32135	881588	--	--	--	--	--	--	--	--	--
32135	880916	--	--	--	--	5.3	1115	--	--	0.036
32136	880916	--	--	--	--	1.0	10	--	--	--
32137	880916	--	--	--	--	5.9	30	--	--	--
32138	880916	--	--	--	--	1.1	<5	--	--	--
32139	880916	--	--	--	--	2.1	15	--	--	--
32140	880916	--	--	--	--	17.3	30	--	--	--
32141	880916	--	--	--	--	1.4	5	--	--	--
32149	880916	--	--	--	--	2.1	<5	--	--	--
32151	880916	--	--	--	--	2.7	20	--	--	--
32152	880916	--	--	--	--	1.6	20	--	--	--
32153	880916	--	--	--	--	0.6	<5	--	--	--
32154	880916	--	--	--	--	0.8	<5	--	--	--
32191	880988	--	--	--	--	1.0	40	--	--	--
32192	881588	--	--	--	--	--	--	--	--	--
32192	880988	--	--	--	--	0.7	120	--	--	--
32193	880988	--	--	--	--	<0.1	10	--	--	--
32194	880988	--	--	--	--	0.2	20	--	--	--
32195	880988	--	--	--	--	4.0	<5	--	--	--
32196	881588	--	--	--	--	--	--	--	--	--
32196	880988	--	--	--	--	13.9	70	--	--	--
32197	880988	--	--	--	--	0.3	10	--	--	--
32198	880988	--	--	--	--	0.6	<5	--	--	--
32199	880988	--	--	--	--	0.7	<5	--	--	--
32200	880988	--	--	--	--	0.2	<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: TIC 4

Page 2 of 3

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm	Ag oz/st	Au oz/st
32226	880988	--	--	--	--	0.8	30	--	--	--
32227	880988	--	--	--	--	0.3	10	--	--	--
32228	880988	--	--	--	--	0.1	<5	--	--	--
32229	880988	--	--	--	--	0.4	30	--	--	--
32230	880988	--	--	--	--	0.2	<5	--	--	--
32231	880988	--	--	--	--	1.6	290	--	--	--
32231	881588	--	--	--	--	--	--	--	--	--
32232	880988	--	--	--	--	0.4	<5	--	--	--
32233	880988	--	--	--	--	0.2	<5	--	--	--
32234	880988	--	--	--	--	2.4	20	--	--	--
32358	881109	--	--	--	--	32.0	4210	--	--	0.124
32358	881588	--	--	--	--	--	--	--	--	--
32359*	881588	--	--	--	--	--	--	--	--	--
32359	881109	--	--	--	--	>50.0	>10000	--	5.65	0.373
32360	881588	--	--	--	--	--	--	--	--	--
32360	881109	--	--	--	--	45.0	4010	--	1.55	0.123
32361	881109	--	--	--	--	27.0	>10000	--	--	0.286
32362	881109	--	--	--	--	0.2	40	--	--	--
32427	881588	--	--	--	--	--	--	--	--	--
32427	881340	--	--	--	--	13.9	4210	--	--	0.093
32428	881340	--	--	--	--	<0.1	20	--	--	--
32429	881340	--	--	--	--	<0.1	<5	--	--	--
32430	881340	--	--	--	--	<0.1	<5	--	--	--
32431	881588	--	--	--	--	--	--	--	--	--
32431	881340	--	--	--	--	1.5	240	--	--	--
32432	881340	--	--	--	--	14.5	4830	--	--	0.111
32432	881588	--	--	--	--	--	--	--	--	--
32433	881340	--	--	--	--	<0.1	20	--	--	--
32434	881340	--	--	--	--	<0.1	20	--	--	--
32435	881340	--	--	--	--	0.1	30	--	--	--
32436	881340	--	--	--	--	>50.0	8360	--	--	0.220
32436	881588	--	--	--	--	--	--	--	--	--
32437	881340	--	--	--	--	16.5	4760	--	--	0.105
32437	881588	--	--	--	--	--	--	--	--	--
32438	881588	--	--	--	--	--	--	--	--	--
32438	881340	--	--	--	--	>50.0	>10000	--	7.74	0.414
32439	881340	--	--	--	--	5.4	600	--	--	--
32439	881588	--	--	--	--	--	--	--	--	--
32440	881588	--	--	--	--	--	--	--	--	--

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: TIC 4

Page 3 of 3

Sample Number	Jobno	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	H ppm	Ag oz/st	Au oz/st
32440	881340	--	--	--	--	15.1	4010	--	--	0.085
32441	881588	--	--	--	--	--	--	--	--	--
32441	881340	--	--	--	--	19.9	2040	--	--	0.045
32442	881340	--	--	--	--	27.0	4350	--	--	0.111
32442	881588	--	--	--	--	--	--	--	--	--
32443	881340	--	--	--	--	37.0	5000	--	--	0.122
32443	881588	--	--	--	--	--	--	--	--	--
32444	881340	--	--	--	--	31.0	9180	--	--	0.235
32444	881588	--	--	--	--	--	--	--	--	--
32461	881340	--	--	--	--	<0.1	50	--	--	--
32462	881340	--	--	--	--	<0.1	<5	--	--	--
32624	881364	--	--	--	--	31.0	>10000	--	--	0.411
32624	881588	--	--	--	--	--	--	--	--	--
32625	881364	--	--	--	--	0.6	<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: TIC 5
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
32363	881109	--	--	--	--	1.0	20	--	--	--
32364	881109	--	--	--	--	1.0	<5	--	--	--
32365	881109	--	--	--	--	<0.1	<5	--	--	--
32366	881109	--	--	--	--	<0.1	<5	--	--	--
32367	881109	--	--	--	--	1.8	<5	--	--	--
32626	881364	--	--	--	--	0.4	<5	--	--	--
32627	881364	--	--	--	--	0.4	<5	--	--	--
32628 ✓	881364	--	--	--	--	5.3	2160	--	--	0.065
32628	881588	--	--	--	--	--	--	--	--	--

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



VANGEOCHEM LAB LIMITED

MAIN OFFICE AND LABORATORY
1988 Triumph Street
Vancouver, B.C. V5L 1K5 2S3
(604) 251-5656 FAX: 254-571778

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 880917 6A

JOB NUMBER: 880917

RANGEX SERVICES

TIC 2.

PAGE 1 OF 1

SAMPLE #	Ag ppm	Au ppb
T2 RCS 15	.1	15
T2 RCS 16	.1	20

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample



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(604) 251-5656

REPORT NUMBER: 880917 6A

JOB NUMBER: 880917

RANGEX SERVICES TIC 4

PAGE 1 OF 1

SAMPLE #	Ag ppm	Au ppb
T4 RRS - 2	.2	15
T4 RRS - 3	.2	40
T4 RCS 17	.1	10
T4 RCS 18	nd	10
RRS 12'	.5	10
RRS-13	nd	15
RRS-14	nd	10
RRS-15	.3	15

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

VANGUARD CHEM LAB LIMITED

MAIN OFFICE: 1988 TRIUMPH STREET, VANCOUVER B.C. V5L 1K5 PH: (604)251-5656 TELEX: 04-352570
BRANCH OFFICE: 1630 PANDORA STREET, VANCOUVER B.C. V5L 1L6 PH: (604)251-7282 FAX: (604)251-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR SM, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: RANGEX SERVICES
ATTENTION: K. KAYE
PROJECT: KESTREL

REPORT#: 881588PA
JOB#: 881588
INVOICE#: 881588NA

DATE RECEIVED: 88/10/05
DATE COMPLETED: 88/10/29
COPY SENT TO:

ANALYST

PAGE 1 OF 5

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
32135	.1	.03	3450	ND	31	5	17.32	16.7	1	17	11653	9.48	2.70	4.76	8410	5	.08	4	.03	169	ND	ND	73	ND	123	ND	ND	294
32192	3.7	1.67	116	ND	130	ND	.61	5.3	39	68	508	4.17	.22	1.39	746	12	.04	17	.02	72	ND	ND	ND	8	10	ND	ND	888
32196	13.1	.94	22	ND	19	6	4.22	8.3	154	63	23667	14.35	1.06	.14	1625	11	.05	27	.10	35	ND	ND	ND	3	22	ND	ND	850
32231	.1	.76	115	ND	644	ND	17.08	1.5	17	18	495	6.45	2.54	1.08	4048	4	.02	7	.01	29	ND	ND	ND	ND	38	ND	ND	324
32358	31.5	.29	ND	ND	28	ND	.51	8.8	10	211	651	2.08	.14	.28	200	20	.01	9	.01	15	ND	ND	ND	ND	12	ND	ND	399
32359	>100	.16	ND	ND	18	ND	.10	4.3	12	163	3002	3.08	.12	.06	81	15	.01	11	.01	11	ND	ND	ND	ND	3	ND	ND	208
32360	44.5	.11	ND	ND	33	ND	1.26	11.1	8	103	292	1.47	.22	.06	208	6	.01	6	.01	12	ND	ND	ND	ND	20	ND	ND	321
32427	19.5	.38	58	ND	84	ND	1.92	8.8	29	189	391	3.69	.38	.32	383	17	.04	7	.01	179	ND	ND	ND	ND	14	ND	ND	1239
32431	2.5	.68	12	ND	45	ND	.97	1.8	13	214	172	1.77	.19	.56	399	10	.02	8	.01	177	ND	ND	ND	61	12	ND	ND	494
32432	15.3	.28	4	ND	48	ND	.22	.6	11	222	489	2.12	.10	.16	136	22	.01	6	.01	26	ND	ND	ND	2	4	ND	ND	249
32436	82.4	.83	6	ND	49	ND	1.67	2.9	16	197	1983	3.62	.34	.81	513	14	.02	19	.01	29	ND	ND	ND	ND	18	ND	ND	252
32437	16.2	1.10	3	ND	40	ND	.68	1.2	12	110	262	2.84	.19	.65	273	15	.01	9	.02	28	ND	ND	ND	ND	7	ND	ND	179
32438	>100	.24	ND	ND	369	ND	.05	1.5	6	176	1280	3.69	.13	.07	84	15	.02	6	.01	19	ND	ND	ND	ND	6	ND	ND	125
32439	7.9	.22	ND	ND	64	ND	.58	1.1	6	81	170	1.64	.13	.06	163	64	.01	4	.01	11	ND	ND	ND	ND	11	ND	ND	125
32440	15.1	.34	ND	ND	51	ND	.56	.1	12	197	293	1.66	.13	.14	331	17	.01	7	.01	12	ND	ND	ND	ND	5	ND	ND	88
32441	18.1	.20	ND	ND	43	ND	.22	.3	12	167	367	2.11	.10	.10	171	8	.01	8	.01	12	ND	ND	ND	1	3	ND	ND	96
32442	23.5	.17	ND	ND	47	ND	.51	6.1	8	91	450	1.33	.11	.13	187	8	.01	5	.01	15	ND	ND	ND	ND	5	ND	ND	179
32443	25.7	.20	3	ND	54	ND	.13	2.4	5	189	194	1.52	.07	.11	85	11	.01	5	.01	13	ND	ND	ND	1	3	ND	ND	104
32444	32.1	.66	ND	ND	73	3	.05	1.2	8	169	292	4.25	.15	.27	160	51	.02	8	.01	25	ND	ND	ND	1	4	ND	ND	119
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1980 TRIUMPH STREET, VANCOUVER B.C. V5L 1K5 PH: (604)251-5656 TELEX: 04 352570
BRANCH OFFICE: 1630 FANDORA STREET, VANCOUVER B.C. V5L 1L6 PH: (604)251-7282 FAX: (604)251-5717

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IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: RANGE SERVICES
ATTENTION: K. KAYE
PROJECT: KESTREL

REPORT#: 881588PA
JOB#: 881588
INVOICE#: 881588NA

DATE RECEIVED: 88/10/05
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ANALYST

PAGE 1 OF 5

SAMPLE NAME	AG PPH	AL %	AS PPH	AU PPH	BA PPH	BI PPH	CA %	CO PPH	CR PPH	CU PPH	FE %	K %	MG %	MM PPH	MO PPH	NA %	NI PPH	P %	PB PPH	PD PPH	PT PPH	SB PPH	SN PPH	SR PPH	U PPH	W PPH	ZN PPH	
32445	43.2	.26	ND	ND	36	ND	1.09	1.1	7	122	775	4.00	.28	.53	314	46	.01	13	.01	13	ND	ND	ND	ND	10	ND	ND	93
32446	27.2	.35	ND	ND	85	ND	.05	4.1	6	159	391	2.90	.10	.14	94	57	.02	8	.01	16	ND	ND	ND	1	5	ND	ND	279
32447	14.6	.40	5	ND	48	ND	.20	25.7	10	99	823	2.37	.11	.22	138	11	.05	25	.01	22	ND	ND	ND	1	4	ND	ND	1034
32448	20.7	.70	ND	ND	96	ND	.20	34.5	12	183	632	2.68	.12	.51	214	17	.05	18	.01	22	ND	ND	ND	1	5	ND	ND	1776
32624	36.2	1.21	8	ND	70	4	.32	76.9	12	140	2980	4.69	.20	.81	281	38	.12	17	.02	23	ND	ND	ND	1	5	ND	ND	4764
32624	26.4	.17	ND	9	578	ND	.32	19.9	8	118	1458	1.15	.08	.15	179	2	.03	7	.01	10	ND	ND	ND	1	55	ND	ND	1079

APPENDIX V

SAMPLE DESCRIPTIONS

TIC 2 - 4
RIDGE SHOWING SAMPLE DESCRIPTIONS

Sample No.	Sample Type	Sample Width	Description
32200	Rock Chip	3 m	Py in alt chloritic zone 3 m wide
32233	Rock Chip	75 cm	Qtz/calc alt. zone 6 m wide in shear zone
32234	Rock Chip	1 m	Siliceous band with chlrt, py, mag 8 cm wide
32356	Rock Chip	40 cm	Qtz, calc, carbonate in shear zone 30 cm wide
32357	Rock Chip	30 cm	Qtz vein 10 cm wide
32358	Rock Chip	50 cm	Qtz vein 12 cm wide py, cpy, malachite
32359	Rock Chip	50 cm	South end of 32358
32360	Rock Chip	50 cm	Same as 32358-59
32361	Rock Chip	60 cm	Qtz vein cpy, py, malachite 15 cm wide
32362	Rock Chip	80 cm	Py in chlort/qtz diorite
32363	Rock Chip	1.5 m	Qtz veins with chlrt alteration in pods 4 m x 2 m
32364	Float	1 m	50% py in chlorite alt. volcanic
32427	Rock Chip	50 cm	Qtz vein with 10 cm wide
32428	Rock Chip	50 cm	Qtz with py, cpy in altered andesite 60 cm zone
32429	Float		Rose qtz
32430	Float	1 m	Chlrt andesite
32431	Rock Chip	50 cm	Rusty qtz with py 12 cm wide
32432	Rock Chip	50 cm	North end of 32431 py, chalcocite, malachite
32433	Rock Chip	75 cm	Qtz/carb 60 cm wide
32434	Rock Chip	1.5 m	Syenite dyke 1.5 m x 20 m
32435	Rock Chip	1 m	Qtz in chloritic intrusive
32436	Rock Chip	50 cm	Py in rusty qtz vein 12 cm wide
32437	Rock Chip	40 cm	Py in rusty qtz vein 8" wide
32438	Rock Chip	60 cm	20 cm wide qtz vein with py
32439	Rock Chip	50 cm	South end of 32438
32440	Rock Chip	50 cm	10 cm wide rusty qtz vein with py
32441	Rock Chip	25 cm	8 cm wide
32442	Rock Chip	50 cm	15 cm wide rusty qtz vein with py, malachite

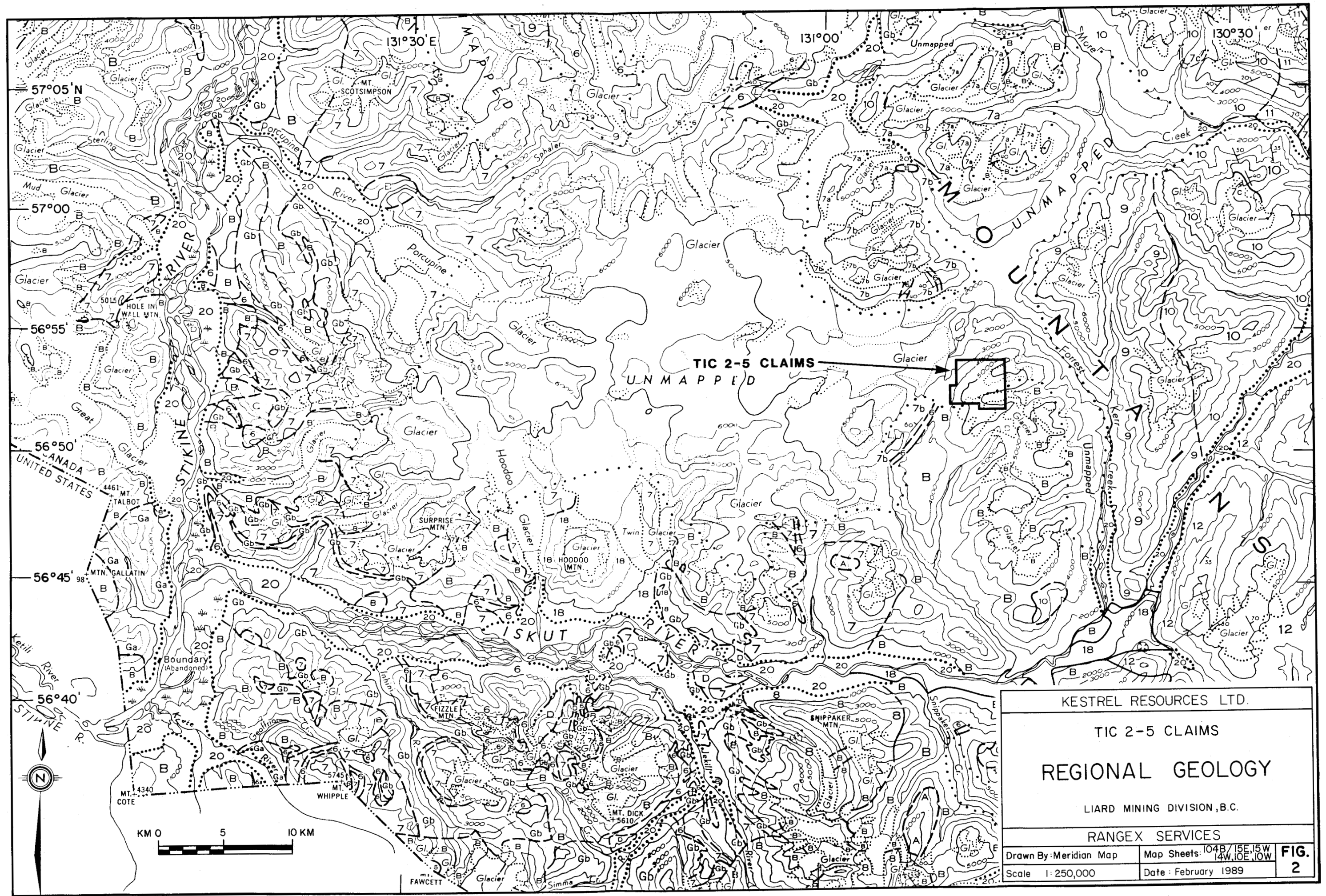
<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32443	Rock Chip	25 cm	5 cm wide rusty qtz vein
32444	Rock Chip	50 cm	12 cm wide rusty qtz vein with py
32445	Rock Chip	50 cm	Rusty, vuggy qtz vein with pyrite 10 cm wide
32446	Rock Chip	50 cm	Qtz vein 15 cm wide with py, cpy
32447	Rock Chip	50 cm	Middle of 32446
32448	Rock Chip	50 cm	West end of 32446 py, cpy, malachite, azurite
32461	Rock Chip	50 cm	Qtz/calcite outcropping 1 m wide
32462	Rock Chip	25 cm	Qtz/carb vein 60 cm wide
32463	Rock Chip	1 m	Siliceous andesite
32464	Rock Chip	75 cm	Qtz/carb vein 20 cm wide
32465	Rock Chip	50 cm	Vuggy qtz vein 30 cm wide
32466	Rock Chip	50 cm	Qtz vein 20 cm wide with malachite, cpy
32467	Rock Chip	50 cm	Qtz/carb vein
32468	Rock Chip	50 cm	Qtz vein 30 cm wide with cpy
32624	Rock Chip	25 cm	Rusty qtz vein 60 cm wide with py, cpy
32625	Rock Chip	50 cm	Qtz vein 10 cm wide with py, malachite
32626	Rock Chip	50 cm	Qtz vein in felsic dyke 8 cm wide
32627	Rock Chip	50 cm	Qtz vein 12 cm wide with py, cpy
32628	Rock Chip	25 cm	Qtz vein cpy, malachite 60 cm wide

SAMPLE DESCRIPTIONS - TIC 4

Sample No.	Sample Type	Sample Width	Description
32001	Rock Chip	1 m	Disseminated mag. in chlrt argillite
32051	"	50 cm	Mass. py in argillite
32052	"	1 m	Mass. py in argillite
32100	"	50 cm	Py, cpy, in calcite / carbonate
32101	"	3 m	Calcite crystals in limestone
32102	"	50 cm	Band of py in carbonate
32103	Float	-	Py, mal, az, mal, in calcite/lms
32104	"	-	Cpy, mal, az in calcite in argillite
32105	Rock Chip	1 m	Cpy in carbonate stringers
32130	"	1.5 m	Cpy in lms
32131	"	3 m	Py in fractures in calcite vein
32132	"	1 m	Cpy in carb with py in calcite filling
32133	"	2 m	Py in calcite
32134	"	50 cm	Bor, cpy in calcite vein
32135	"	2 m	Bor, cpy in calcite vein
32136	"	50 cm	Py in argillite
32137	"	50 cm	Py pod in argillite
32138	"	50 cm	Py, cpy in siliceous argillite
32139	"	50 cm	Py in calcite vein
32141	"	1 m	Cpy in calcite / arg. breccia
32149	"	2 m	Py fracture filling in carb lms.
32151	"	50 cm	Py in altered lms.
32152	"	1 m	Py in calcite / argillite
32153	"	3 m	Py, cpy, mal, bor in calcite in arg.
32154	"	50 cm	Py, cpy in calcite / arg.
32191	"	50 cm	Py, mag pods
32192	"	50 cm	Py in siliceous chlrt intrusive
32193	"	1 m	Volcanic dykes
32194	"	50 cm	Py, cpy in chlrt sed.
32195	Rock Chip	3 m	Py, cpy, mal, az in skarn
32196	"	50 cm	High grade at 32195
32197	"	3 m	Py in siliceous chlrt alteration
32198	"	1 m	Py, cpy, mal, az, epidote in chlrt alt.
32199	"	1 m	Py, cpy, mal in chlrt porphyry
32226	"	1 m	Alt. band with calcite in dolomite
32227	"	2 m	Breccia zone with pods of py/chlrt
32228	"	3 m	Py, pyr, mag in qtz altered breccia
32229	"	50 cm	Fracture filling of py in breccia zone
32230	"	50 cm	Py in fracture filling in breccia
32231	"	50 cm	Calcite vein in qtz (chlrt dolomite)
32232	"	1 m	Py, maag, cpy in mass chlrt alteration zone

SAMPLE DESCRIPTIONS - TIC 5

<u>Sample No.</u>	<u>Sample Type</u>	<u>Sample Width</u>	<u>Description</u>
32365	Rock Chip	50 cm	Py in quartz vein
32366	Rock Chip	50 cm	Py in quartz veinlet
32367	Rock Chip	1 m	Py in chlrt dyke



KESTREL RESOURCES LTD.	
TIC 2-5 CLAIMS	
REGIONAL GEOLOGY	
LIARD MINING DIVISION, B.C.	
RANGEX SERVICES	
Drawn By: Meridian Map	Map Sheets: 104B/15E, 15W 14W, 10E, 10W
Scale: 1:250,000	Date: February 1989

