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VANCOUVER, B.C.

**1989 PROSPECTING REPORT
ON THE
TARGET #1 CLAIM**

Located in the Telegraph Creek Area
Liard Mining Division
NTS 104G/13W

FILMED

57° 46' North Latitude
131° 54' West Longitude

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,232

-prepared for-
INTEGRATED RESOURCES LTD.

-prepared by-
Tom Bell, Prospector

October, 1989

1989 PROSPECTING REPORT ON THE TARGET #1 CLAIM

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1.0 INTRODUCTION

The Target #1 claim was staked in 1988 to cover favorable geology and to cover the possible source of anomalous silt samples collected during a regional Government geochemical survey in 1987 (sample #'s 871103 and 871112). The claim, located east of Wimpson Creek and 4 kilometers due west of Mt. Barrington, is approximately 45 kilometers southwest of Telegraph Creek in northwestern British Columbia (Figure 1). The geological similarity to the Galore Creek, Iskut River, Sulphurets and Stewart mining camps to the south and the area's potential for precious metal mineralization have sparked renewed exploration interest throughout the area.

Reconnaissance exploration, consisting of prospecting and silt and rock geochemical sampling, was carried out over the Target #1 claim in July of 1989. Equity Engineering Ltd. conducted this program for Integrated Resources Ltd. and has been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the following claim (Figure 2) is owned by Integrated Resources Ltd..

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Target #1	5047	18	July 30, 1988	1989*

*note: one year's assessment work applied in July 1989.

PROPERTY LOCATION



INTEGRATED RESOURCES LTD.			
TARGET #1 CLAIM			
PROPERTY LOCATION MAP			
EQUITY ENGINEERING LTD.			
Drawn.	J.W.	N.T.S.	104G/13W
Date.	Sept. 1989	FIG. No.	1.

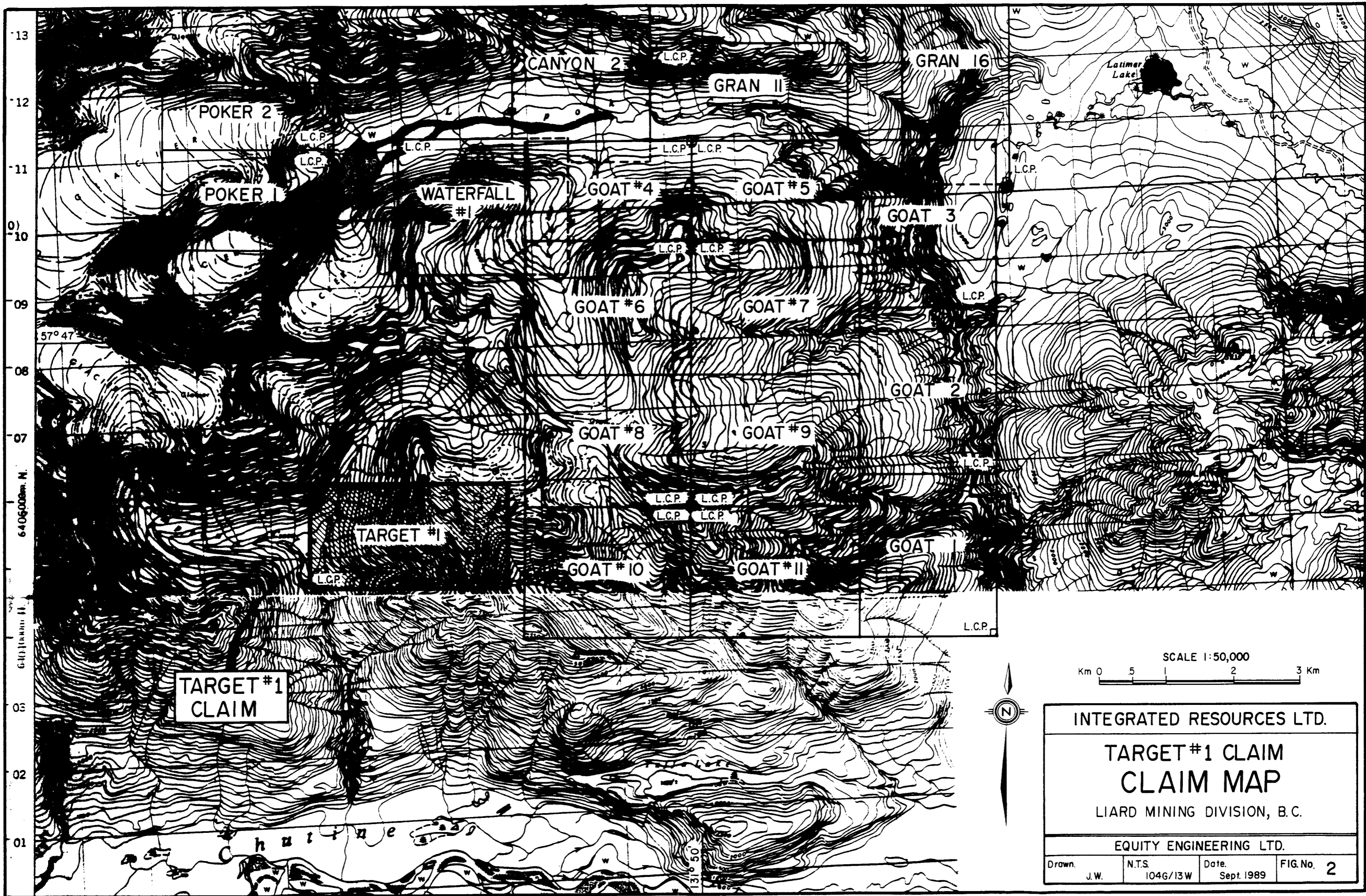
3.0 LOCATION, ACCESS AND GEOGRAPHY

The Target #1 claim is located within the Coast Range Mountains approximately 45 kilometers southwest of Telegraph Creek in northwestern British Columbia (Figure 1). It lies within the Liard Mining Division, centered at 57° 46' north latitude and 131° 54' west longitude.

A secondary road extends sixteen kilometers south of Telegraph Creek to Glenora on the Stikine River. An access road suitable for four-wheel drive vehicles has been constructed southwest from Glenora to the site of Integrated Resources' placer mining camp on the Barrington River. In the 1960's, a cat road was built up Shakes Creek from the Barrington River road, passing within fifteen kilometers of the Target #1 claim. This cat road would have to be cleared and upgraded before it could be accessed. Access to the Target property for the 1989 exploration program was provided by daily helicopter setouts from Integrated Resources' placer mining camp on the Barrington River, a distance of less than five kilometers.

Topography on the Target #1 claim is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 700 meters on Wimpson Creek to 1980 meters on the ridge above the creek. The claim covers a glaciated north facing bowl and a north trending ridge which parallels the northernmost tributary of Wimpson Creek.

Steep, lower slopes are covered by a dense growth of slide alder, however where relief is less extreme, thick coniferous forest prevails. At higher elevations, above 1200 meters, open grassy slopes and alpine vegetation exists where rocky bluffs are not present. Approximately one quarter of the claim is covered



SCALE 1:50,000
 Km 0 1 2 3 Km

INTEGRATED RESOURCES LTD.			
TARGET #1 CLAIM CLAIM MAP			
LIARD MINING DIVISION, B.C.			
EQUITY ENGINEERING LTD.			
Drawn. J.W.	N.T.S. 104G/13W	Date. Sept. 1989	FIG. No. 2

by an alpine glacier.

The property lies in an intermediate or gradational belt between the wet belt of the Coast Range and the dry belt of the Stikine Plateau. The summers are typically cool and showery with the occasional snowfall. Accumulated snow in the winter is considerably less than in the wet belt. Prospecting could be started in July and continued through till October in a normal year.

4.0 PROPERTY MINING HISTORY

4.1 Previous Work

Placer gold was discovered on gravel bars of the Stikine River between Glenora and Telegraph Creek in 1861 and worked extensively until the early 1900's. The placer gold deposits of the lower Barrington River, located less than ten kilometers southeast of the Target #1 claim, have been worked sporadically since 1903.

The area south and west of Telegraph Creek was extensively explored for its copper potential throughout the 1960's, following the discovery of the Galore Creek copper-gold porphyry deposit in 1955 and the Schaft Creek copper-molybdenum deposit in 1957, both of which host greater than one million tonnes of contained copper. These deposits are located 85 kilometers south-southwest and 60 kilometers south, respectively, from Telegraph Creek.

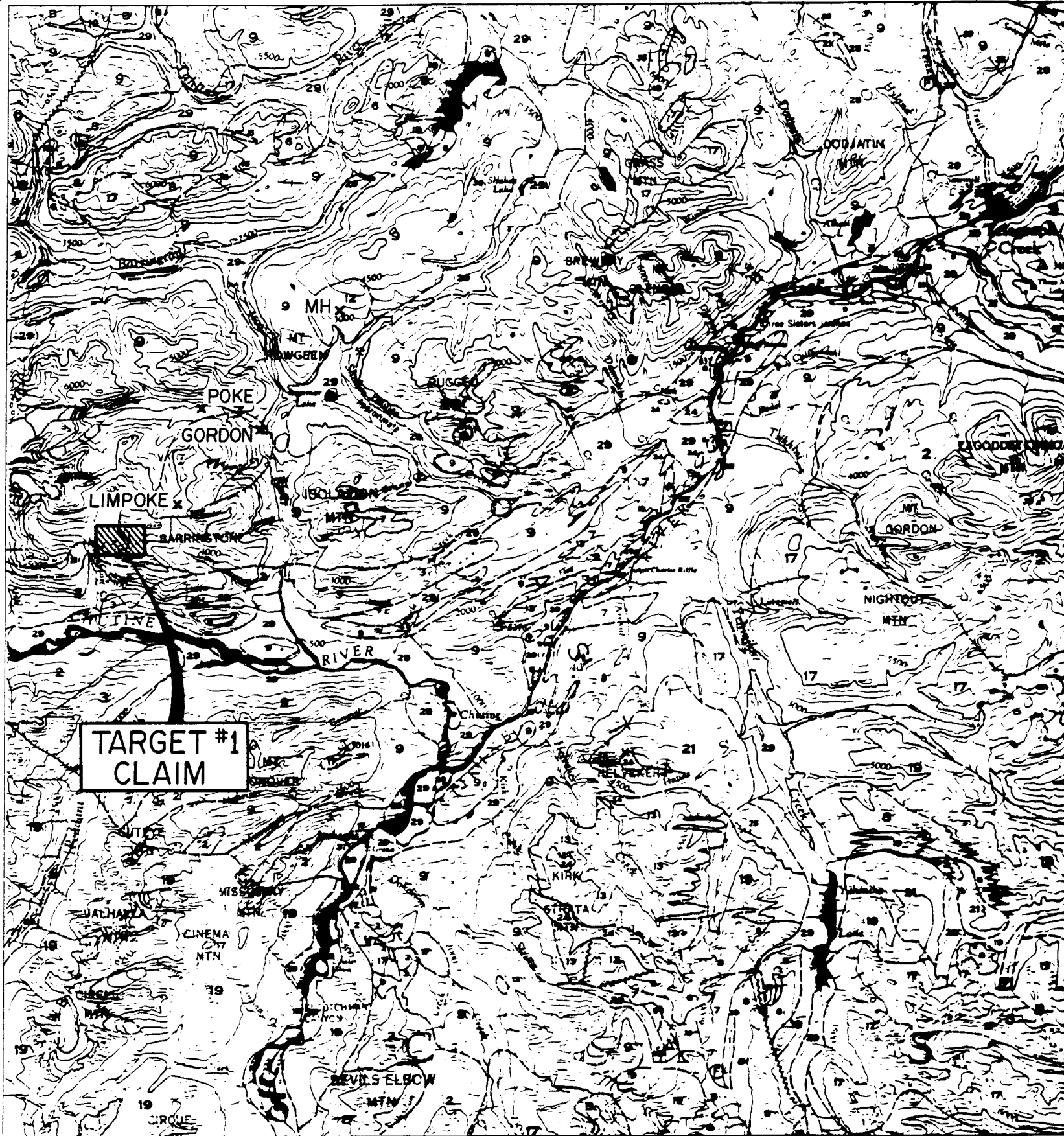
Several copper occurrences were discovered southwest of Telegraph Creek at this time. Kennco explored copper mineralization within a syenitic border phase of a large granodiorite stock and its intruded volcanics on their Poke claims, 10 kilometers north of the Target property. Their Gordon claims,

132° 00'
58° 00'

45

30

15



LEGEND

- QUATERNARY
PLEISTOCENE AND RECENT**
- 29 Fluvial gravel, sand, silt; glacial outwash, till, alpine moraine and colluvium
- TERTIARY AND QUATERNARY
UPPER TERTIARY AND PLEISTOCENE**
- 28 Basalt, andesite basalt, diatremes, related pyroclastic rocks and subvolcanic intrusions; minor rhyolites; in part younger than some 26
- CRETACEOUS AND TERTIARY
UPPER CRETACEOUS AND LOWER TERTIARY
SLOAN GROUP**
- 24 Light green, purple and white rhyolite, trachyte and diatremes flows, pyroclastic rocks and derived sediments
- SHERVY GROUP**
- 25 Chert-pebble conglomerate, granite-boulder conglomerate, quartzite, sandstone, siltstone, calcareous shale and minor coal
- 19 Medium-to coarse-grained, pink feldspar-bearing quartz monzonite
- JURASSIC AND/OR CRETACEOUS
POST-UPPER TRIASSIC PRE-TERTIARY**
- 18 Basaltic diorite
- 17 Gneiss/diorite, quartz diorite, minor diorite, lamprophyre and schistosity
- LOWER JURASSIC**
- 18 Conglomerate, polytuff conglomerate, granite-boulder conglomerate, grit, greywacke, siltstone; basaltic and andesitic volcanic rocks, porphyry, pillow-breccia and derived volcanoclastic rocks
- TRIASSIC AND JURASSIC
POST-UPPER TRIASSIC PRE-LOWER JURASSIC**
- 16 Granite, orthogneiss porphyry, monzonite, pyroxenite
- TRIASSIC
UPPER TRIASSIC**
- 9 Undifferentiated volcanic and sedimentary rocks (units 5 to 8 inclusive)
- 8 Angular-subangular flows, pyroclastic rocks, derived volcanoclastic rocks and related subvolcanic intrusions; minor greywacke, siltstone and polytuff conglomerate
- 7 Siltstone, thin-bedded siliceous siltstone, ribbon chert, calcareous and dolomitic siltstone, greywacke, volcanic conglomerate, and minor limestone
- 6 Limestone, (old argillaceous limestone, calcareous shale and redbed limestone) may be in part younger than some 7 and 8
- PERMIAN
MIDDLE AND UPPER PERMIAN**
- 3 Limestone, thin-bedded mainly bioclastic limestone; minor siltstone, chert and tuff
- PERMIAN AND OLDER**
- 2 Flysch, argillaceous quartzite, quartz-schistose schist, chlorite schist, gneiss, minor chert, calcareous tuff and limestone
- 1 Amphibolite, amphibolite gneiss age unknown probably pre-Upper Jurassic

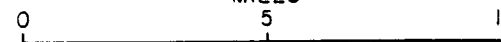


SYMBOLS

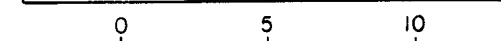
- Geological boundary (defined and approximate, assumed)
- Bedding (horizontal, inclined, vertical, overturned)
- Anticline
- Syncline
- Fault (defined and approximate, assumed)
- Thrust (sill, tooth on hanging-wall side (defined and approximate, assumed)
- Fossil locality
- Mineral property
- Glacier

SCALE 1:250,000

MILES



KILOMETRES



INTEGRATED RESOURCES LTD.

TARGET #1 CLAIM
REGIONAL GEOLOGY

LIARD MINING DIVISION, B.C.

EQUITY ENGINEERING LTD.

DRAWN. J.W.	N.T.S. 104G/13W	DATE. SEPT. 1989	FIG. No. 3
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located at the junction of Limpoke Creek and the Barrington River, also hosts disseminated copper mineralization within the syenitic phase of the stock and the intruded volcanics (BCDM, 1966). The MH iron deposit, hosted by a pyroxenite stock on Shakes Creek, sixteen kilometers northeast of the Target #1 claim, was also explored extensively in the 1960's.

No record of actual physical work has been found on the Target #1 claim, however immediately to the east in the Mt. Barrington area, previous exploration by Dupont Exploration and other companies encountered minor chalcopyrite and molybdenite mineralization associated with a granitic stock located immediately northeast of the Target #1 claim.

4.2 1989 Work Program

During July of 1989, Integrated Resources Ltd. carried out reconnaissance exploration on the Target #1 claim, consisting of prospecting and stream sediment sampling, using a topographic plan map at a scale of 1:10,000. This program was targeted at gold-rich mesothermal, base metal veins similar to those occurring within a similar geological environment to the southeast in the Galore Creek, Iskut River, Sulphurets and Stewart mining districts.

During the course of this program, 2 silt samples and 20 rock samples were taken. The silt samples were taken from silt accumulations in two unnamed tributaries of Wimpson Creek. Silts are sieved to minus 80 mesh in the laboratory and analysed geochemically for gold and 32-element ICP (Figure 4). Prospecting and sampling were carried out over the claim, using a 1:10,000 topographic plan map with 100 feet (approximately 30 meters) contour intervals, as a base (Figure 4). Rock samples, described in Appendix C, were taken from zones of alteration and

mineralization and analysed geochemically for gold and 32-element ICP. Analytical certificates are attached in Appendix D.

5.0 REGIONAL GEOLOGY

The Telegraph Creek area lies on the western margin of the Intermontane Belt within the Stikine Arch near its contact with the Coast Plutonic Complex (Figure 3). A sequence of Paleozoic to middle Triassic oceanic sediments is unconformably overlain by Upper Triassic Stuhini Group island arc volcanics and sediments. These have been intruded by Upper Triassic to Lower Jurassic syenitic stocks and by Jurassic to Lower Cretaceous quartz diorite and granodiorite plutons of the Coast Plutonic Complex.

The oldest rock assemblage in the Telegraph Creek area consists of Permian bioclastic limestone (Unit 3) overlying metamorphosed sediments and volcanics (Unit 2) and crinoidal limestone (Unit 1).

Unconformably overlying the Permian limestone unit are Upper Triassic Stuhini Group island arc volcanics and sediments (Units 5 through 8). In the Telegraph Creek area, Souther (1971) grouped these volcanic and sedimentary members in Unit 9, noting however that it was composed predominantly of augite andesite breccia, conglomerate and volcanic sandstone. Several significant gold occurrences are hosted by Upper Triassic Stuhini volcanics in a cluster around Galore Creek, seventy kilometers to the south. This Upper Triassic volcano-sedimentary package is also correlative with that which hosts the Snip and Stonehouse gold deposits of the Iskut River district a further sixty kilometers to the south.

Small, equidimensional syenite, pyroxenite and orthoclase porphyry stocks (Unit 12), dated as Late Triassic to Early Jurassic

by Souther (1971), intrude mainly Stuhini volcanics. A stock, possibly belonging to Unit 12 but mapped as Unit 17 (granodiorite) on the regional Government geology map for the area, outcrops south of Limpoke Creek and west of the Barrington River in the vicinity of the Target #1 claim. This same intrusive is associated with the Poke and Gordon copper occurrences, located a few kilometers north and east of the Target property. The Galore Creek and Copper Canyon copper-gold porphyry deposits are hosted by Upper Triassic volcanics intruded by syenitic stocks of Unit 12. Orthoclase porphyry or syenite stocks are associated with most significant precious metals deposits in the Stewart, Sulphurets and Iskut River districts, including the Silbak Premier, Sulphurets, and Snip deposits.

Lower Jurassic conglomerates (Unit 13) with granodiorite clasts unconformably overly Triassic sediments of the Stuhini Group. The Jurassic volcano-sedimentary strata are similar in appearance to those of the underlying Stuhini Group, with differentiation possible mainly through fossil identification.

Jurassic and Cretaceous granodiorite to quartz diorite batholiths (Unit 17) of the Coast Plutonic Complex intrude all older lithologies. This unit consists mainly of medium-grained hornblende-biotite granodiorite with lesser hornblende quartz diorite and is locally foliated near its margins. Marginal phases of this intrusive unit have been noted by Government geologists, to be syenitic and they conclude, "much additional work is needed to subdivide the many phases of this map-unit." Important mineral occurrences are associated with the border phases of Unit 17 (Poke, Gordon, etc.)

Coarse conglomerate, sandstone, siltstone and minor black shale of the Upper Cretaceous and Lower Tertiary Sustut Group (Unit 21) unconformably overlies Jurassic strata on Mount Helveker and

are found along the Stikine River below Telegraph Creek. Conformably overlying the Sustut Group on Helveker Mountain are about 160 meters of felsic to intermediate, mainly pyroclastic rocks (Unit 24), correlated by Souther (1972) to the Early Tertiary Sloko Group found further to the northwest.

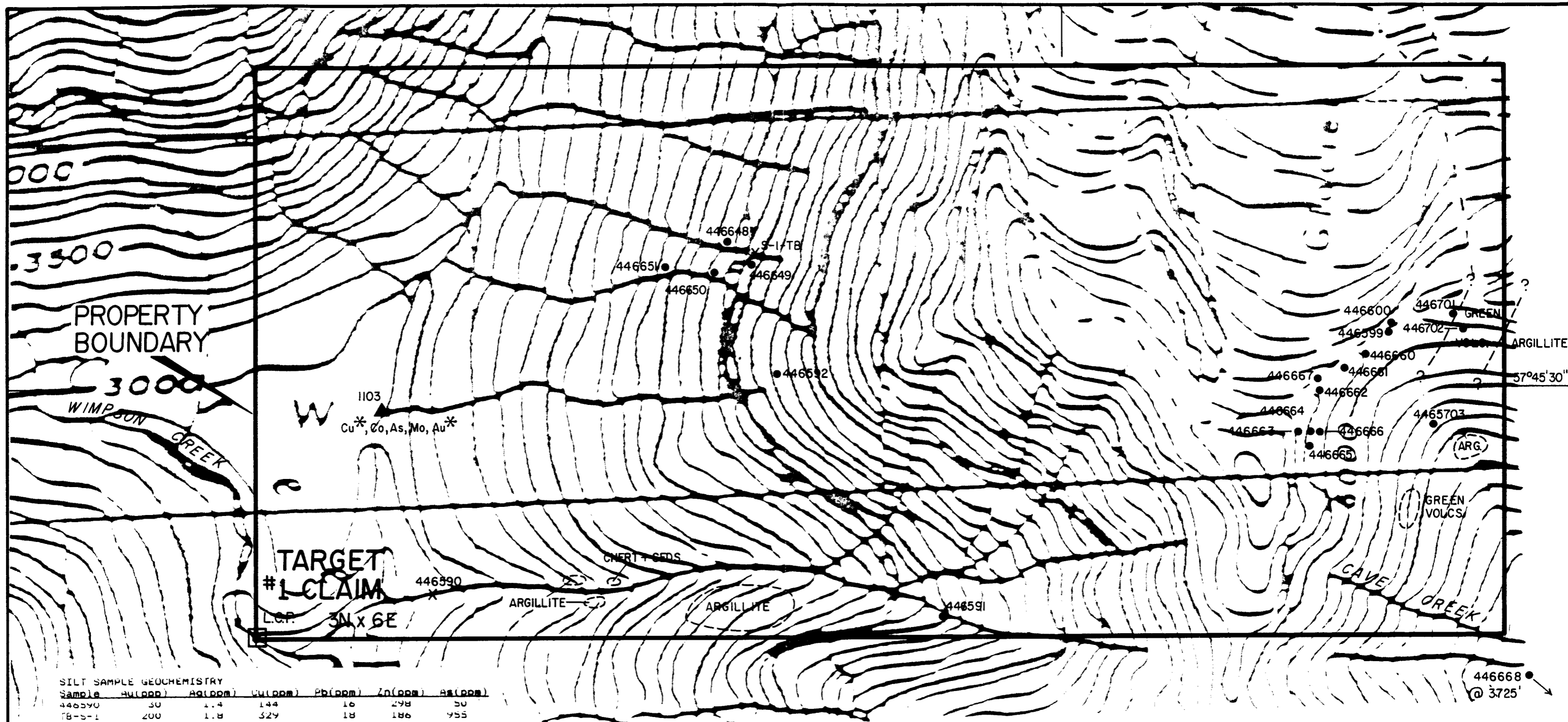
Upper Tertiary and Quaternary basalt flows (Unit 25) are exposed in the Stikine River and north of Dodjatin Mountain.

6.0 PROPERTY GEOLOGY AND GEOCHEMISTRY

6.1 Property Geology

The Target #1 claim is underlain by Upper Triassic, undifferentiated, volcanic and sedimentary rocks (Unit 9, on regional Government map) which are intruded by Upper Triassic/Lower Jurassic granitic or syenitic stocks. Adjacent to the northeast corner of the claim, a large stock is mapped as Unit 17 on the regional Government map and is known to be associated with the Poke and Gordon occurrences (Figure 3).

This stock may well outcrop on the Target #1 claim beneath the alpine glacier located in the northeast quadrant of the claim. Evidence of thermal effects and contact metamorphism in the volcano-sedimentary rocks is present on a saddle ridge bordering the southeast edge of the glacier. All samples collected in this vicinity display abundant veining of quartz, calcite, sericite and massive sulfide materials and have anomalous values in gold and copper. Most samples also contain anomalous silver and one sample, reported to contain arsenopyrite (#446666), returned on arsenic value of 1030 ppm. Sample #446663 was collected across a 1 to 2 meter wide massive sulfide zone on the saddle ridge and contained pyrrhotite, bornite, chalcopyrite and pyrite minerals as well as



SILT SAMPLE GEOCHEMISTRY

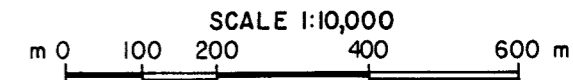
Sample	Au(ppm)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
446590	30	1.4	144	16	298	30
78-5-1	200	1.8	329	18	186	955

ROCK SAMPLE GEOCHEMISTRY

Sample	Au(ppm)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
446648	<5	<0.2	43	10	60	30
446649	10	<0.2	127	<2	78	<5
446650	<5	<0.2	101	10	126	<5
446651	5	<0.2	58	4	70	20
446660	60	1.0	236	62	266	15
446661	145	<0.2	84	12	70	30
446662	15	<0.2	138	10	58	<5
446663	240	4.6	1850	42	770	160
446664	45	2.6	843	22	96	40
446665	30	<0.2	76	4	66	<5
446666	380	3.2	1055	28	68	1030
446667	260	<0.2	137	8	38	35
446668	10	0.6	100	8	138	45
446591	<5	<0.2	73	6	840	30
446592	1790	8.2	793	10	126	<5
446599	1000	1.4	351	26	50	40
446600	130	<0.2	100	18	74	10
446701	270	<0.2	370	12	50	35
446702	160	1.0	595	20	34	20
446703	185	1.0	320	20	56	15

LEGEND

- 446670X SILT SAMPLE
- 446592● ROCK SAMPLE
- 1103▲ GOVERNMENT GEOCHEM. SAMPLE
- OUTCROP
- - - ? CONTACT, INFERRED



131°54'

INTEGRATED RESOURCES LTD.
TARGET #1 CLAIM
SAMPLE LOCATION MAP
 LIARD MINING DIVISION, B.C.

EQUITY ENGINEERING LTD.

Drawn J.W.	N.T.S. 104 G/13W	Date Sept. 1989	FIG.No. 4
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quartz, chlorite, sericite and calcite gangue. Not surprisingly, this sample contained 1850 ppm copper, 240 ppb gold, 4.6 ppm silver, 970 ppm zinc and 160 ppm arsenic. Sample #446599 was collected in the same general vicinity of the above saddle ridge, from chloritic and calcite altered argillite with 2% pyrite, in close proximity to an andesite dyke. Values for gold, silver and copper are 1300 ppb, 1.4 ppm and 351 ppm, respectively. The main creeks draining the bowl below the saddle ridge feed Cave Creek which showed anomalous gold, silver, copper, arsenic and molybdenum values in silts collected during the National Geochemical Reconnaissance survey (sample #871112).

Silt and rock samples collected from the volcanics and argillites on the west side of the claim generally displayed background geochemical values. One sample, however, (#446592), contained the highest values for gold and silver found on the property during the limited exploration program. This sample was collected from a calcite alteration zone in argillite. The rusty sample was noted to contain some pyrite and was collected from the headwaters of the same drainage where silt sample #871103, (which displayed high gold and copper geochemistry), was collected during the regional Government geochemical program. Geochemical values obtained for rock sample #446592 are as follows: 1790 ppb gold, 8.2 ppm silver, 793 ppm copper.

6.2 Geochemistry

Two anomalous silt samples collected during the 1987 regional Government geochemical program were followed up with two silts and 20 rock samples, collected upstream from the original Government silt samples on the Target #1 claim.

The results of this program showed one silt, collected from an area immediately above the drainage where Government sample #871103 was collected, to be moderately anomalous in gold, silver and copper. Sample #TB-S-1 contained 200 ppb Au, 1.8 ppm silver and 320 ppm copper. As well, select altered silicified, and mineralized rock samples from the upstream area of Government sample #871112 carried more anomalous values in gold, copper and silver in which values ranged from 145 to 1300 ppb for gold, 100 to 1850 ppm for copper, and 1.0 to 4.6 ppm for silver.

7.0 DISCUSSION AND CONCLUSIONS

During the course of limited exploration work during 1989, anomalous stream sediment and rock samples were taken from the headwaters of Cave Creek and unnamed tributaries of Wimpson Creek on the Target #1 claim.


Rock samples collected from the property which showed notable gold, silver, and copper geochemistry were collected from a saddle ridge of interbedded volcanic and sedimentary rocks in close proximity to dykes and a granitic stock. These altered volcano-sedimentary outcrops contained quartz and calcite veining and stockworks, abundant disseminated pyrite, pyrrhotite, bornite, chalcopyrite and/or arsenopyrite and display mineralogies amenable to hosting significant quantities of gold.

The lode sources of the Barrington River placer gold deposits still remain to be discovered and this property shows encouraging geology to potentially host at least some lode gold occurrences.

Extremely promising initial results, coupled with the exploration successes achieved all along the regional trend between the Stewart, Iskut River, Galore Creek and Schaft Creek areas provide abundant incentive to conduct further exploration work on

the Target #1 claim.

Respectfully submitted,
EQUITY ENGINEERING LTD.



Tom Bell, Prospector

Vancouver, British Columbia
October, 1989

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

- Allen, D.G., A. Panteleyev and A.T. Armstrong (1976): Galore Creek, in CIM Special Volume 15, pp. 402-414.
- BCDM (1963-66): Annual Report; British Columbia Department of Mines.
- Fox, P.E., E.W. Grove, R.H. Seraphim and A. Sutherland Brown (1976): Schaft Creek, in CIM Special Volume 15, pp. 219-226.
- Folk, P. (1981): Geochemical Report on the Limp #2 Claim; British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report #9092.
- Geological Survey of Canada (1988): National Geochemical Reconnaissance, Sumdum - Telegraph Creek, British Columbia (NTS 104F - 104G); GSC Open File 1646.
- Korenic, J.A. (1982): Assessment Report of Geological, Geochemical and Geophysical Work Performed on the Tuff 1 Claim, Assessment Report #10475.
- Souther, J.D. (1972): Telegraph Creek Map Area, British Columbia; Geological Survey of Canada Paper 71-44.

APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
 TARGET #1 CLAIM
 (July 24-27)

PROFESSIONAL FEES AND WAGES:

Bruno Kasper, Geologist			
0.25 day @ \$250/day	\$	62.50	
Tom Bell, Prospector			
2.5 days @ \$250/day		625.00	
Don Coolidge, Prospector			
2.0 days @ \$250/day		<u>500.00</u>	
			\$ 1,187.50

EQUIPMENT RENTALS:

Truck Rental (Standby)			
2 days @ \$10/day	\$	20.00	
Handheld Radios			
4 days @ \$5/day		20.00	
Fly Camp			
4 mandays @ \$10/manday		<u>40.00</u>	
			80.00

CHEMICAL ANALYSES:

Stream sediment			
2 @ \$13.86	\$	27.72	
Rock geochemical			
20 @ \$16.45		<u>329.00</u>	
			356.72

EXPENSES:

Printing and Reproductions	\$	11.48	
Meals (Integrated Camp)		171.00	
Telephone Distance Charges		24.40	
Courier and Telefax		12.50	
Expediting		3.75	
Helicopter		<u>679.50</u>	
			902.63

REPORT (estimated)	1,000.00
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MANAGEMENT FEE:

15% on expenses	<u>135.39</u>
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\$ 3,662.24
=====

APPENDIX C

ROCK DESCRIPTIONS

APPENDIX D

CERTIFICATES OF ANALYSIS



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8922906

Comments:

CERTIFICATE A8922906

EQUITY ENGINEERING LTD

PROJECT : INT 89-01

P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-AUG-89.

SAMPLE PREPARATION

CHEMEX NUMBER
CODE SAMPLES

DESCRIPTION

205 46 Rock Geochem: Crush, splitting
238 46 ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	46	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	46	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	46	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	46	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	46	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	46	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	46	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	46	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	46	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	46	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	46	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	46	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	46	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	46	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	46	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	46	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	46	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	46	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	46	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	46	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	46	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	46	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	46	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	46	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	46	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	46	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	46	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	46	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	46	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	46	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	46	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	46	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	46	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project: INT 89-01

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SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
446591	205	238	8	0.01	16	260	6	5	1	176	< 0.01	< 10	< 10	19	< 10	840
446592	205	238	3	0.02	9	900	10	< 5	5	16	0.18	< 10	< 10	64	< 10	126
446599	205	238	< 1	0.03	11	1410	26	< 5	11	238	0.32	< 10	< 10	211	< 10	50
446600	205	238	3	< 0.01	18	2510	18	5	13	165	< 0.01	< 10	< 10	111	10	94
446648	205	238	2	0.04	19	240	10	< 5	3	27	0.07	< 10	< 10	45	< 10	60
446649	205	238	11	0.34	33	1420	< 2	< 5	4	183	0.24	< 10	< 10	83	< 10	78
446650	205	238	43	0.17	103	590	10	5	2	176	0.15	< 10	< 10	110	< 10	126
446651	205	238	1	0.64	26	990	4	< 5	12	201	0.28	< 10	< 10	139	< 10	70
446661	205	238	24	0.02	67	660	12	15	3	99	0.21	< 10	< 10	199	< 10	70
446662	205	238	4	0.01	11	790	10	10	7	12	0.19	< 10	< 10	117	< 10	38
446663	205	238	< 1	0.02	49	1080	42	< 5	4	23	0.07	< 10	< 10	44	< 10	970
446664	205	238	< 1	0.02	37	2800	22	5	8	65	0.12	< 10	< 10	101	< 10	96
446665	205	238	< 1	0.01	15	1100	4	10	10	21	0.40	< 10	< 10	138	< 10	66

CERTIFICATION :

B. Coughlin



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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
446591	205 238	< 5	0.60	< 0.2	30	200	< 0.5	< 2	5.38	11.5	6	118	73	2.05	< 10	< 1	0.13	< 10	0.52	355
446592	205 238	1790	5.23	8.2	< 5	30	< 0.5	10	7.69	1.5	10	72	793	3.30	< 10	< 1	0.08	< 10	0.10	240
446599	205 238	1300	4.75	1.4	40	10	< 0.5	4	2.69	< 0.5	13	49	351	9.38	< 10	< 1	0.06	< 10	1.25	390
446600	205 238	130	1.74	< 0.2	10	490	< 0.5	6	14.40	< 0.5	15	45	100	4.63	< 10	< 1	0.10	< 10	0.94	935
446648	205 238	< 5	1.15	< 0.2	30	120	< 0.5	< 2	2.99	< 0.5	7	99	43	2.52	< 10	< 1	0.09	< 10	0.37	250
446649	205 238	10	3.51	< 0.2	< 5	60	0.5	< 2	3.82	1.0	17	50	127	3.06	< 10	< 1	0.12	< 10	0.38	240
446650	205 238	< 5	2.11	< 0.2	< 5	30	0.5	< 2	10.85	2.0	12	97	101	3.89	< 10	1	0.05	< 10	0.05	265
446651	205 238	5	6.49	< 0.2	20	430	0.5	< 2	2.97	0.5	15	81	58	5.02	< 10	< 1	0.43	< 10	1.62	760
446661	205 238	145	4.00	< 0.2	30	10	0.5	< 2	9.71	0.5	10	50	84	2.28	< 10	1	0.01	< 10	0.25	245
446662	205 238	15	5.36	< 0.2	< 5	10	0.5	2	6.99	< 0.5	5	68	138	4.25	< 10	< 1	< 0.01	< 10	0.39	245
446663	205 238	240	1.09	4.6	160	10	< 0.5	< 2	2.02	31.0	132	37	1850	>15.00	< 10	1	0.03	10	0.35	480
446664	205 238	45	2.69	2.6	40	10	< 0.5	2	4.82	< 0.5	67	61	843	>15.00	< 10	1	0.02	< 10	1.01	1235
446665	205 238	50	5.80	< 0.2	< 5	< 10	0.5	< 2	7.51	0.5	15	58	96	4.79	< 10	1	< 0.01	< 10	0.68	465

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SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			FA+AA	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
446666	205	238	380	3.23	3.2	1030	40	< 0.5	< 2	2.47	< 0.5	85	31	1055	>15.00	< 10	< 1	0.03	10	0.64	730
446667	205	238	260	1.05	< 0.2	35	40	< 0.5	< 2	4.48	< 0.5	7	119	137	4.05	< 10	< 1	0.04	< 10	0.67	720
446668	205	238	10	2.11	0.6	25	590	< 0.5	2	1.29	< 0.5	11	87	100	3.76	< 10	< 1	0.49	10	1.05	360
446701	205	238	270	3.85	< 0.2	35	10	< 0.5	< 2	5.69	< 0.5	32	37	370	9.98	< 10	< 1	0.06	< 10	0.48	730
446702	205	238	160	2.01	1.0	20	30	< 0.5	< 2	1.40	< 0.5	82	26	595	10.50	< 10	< 1	0.12	10	0.46	225
446703	205	238	185	3.15	1.0	15	20	< 0.5	< 2	4.75	< 0.5	14	119	320	9.09	< 10	< 1	0.02	10	0.65	650

CERTIFICATION : B. Coughlin



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SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
446666	205 238	< 1	0.02	62	2590	28	< 5	7	62	0.20	< 10	< 10	69	< 10	68
446667	205 238	28	0.03	76	2330	8	< 5	3	73	0.09	< 10	< 10	78	< 10	38
446668	205 238	5	0.14	26	710	8	< 5	5	86	0.08	< 10	< 10	86	< 10	138
446701	205 238	< 1	0.02	22	1850	12	< 5	4	84	0.17	< 10	< 10	107	< 10	50
446702	205 238	< 1	0.20	46	920	20	< 5	4	111	0.21	< 10	< 10	66	< 10	34
446703	205 238	71	0.03	22	1650	20	< 5	7	36	0.25	< 10	< 10	624	< 10	56

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A8922905

Comments:

CERTIFICATE A8922905

EQUITY ENGINEERING LTD.

PROJECT : INT 89-01

P O # : NONE

Samples submitted to our lab in Vancouver, BC.

This report was printed on 15-AUG-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	3	Dry, sieve -80 mesh; soil, sed.
238	3	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	3	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	3	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	3	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	3	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	3	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	3	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	3	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	3	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	3	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	3	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	3	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	3	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	3	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	3	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	3	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	3	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	3	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	3	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	3	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	3	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	3	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	3	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	3	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	3	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	3	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	3	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	3	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	3	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	3	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	3	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	3	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	3	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	3	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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SAMPLE DESCRIPTION	PREP CODE		Mb	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
446590 SILT ITB	201	238	21	0.06	65	1350	16	< 5	6	112	0.11	< 10	< 10	116	10	298
	201	238	33	0.04	59	1280	18	< 5	8	102	0.14	< 10	< 10	144	20	186

CERTIFICATION :

B. Campbell



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SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
446590 SILT ITB	201	238	30	2.07	1.4	50	450	< 0.5	< 2	2.23	2.5	20	28	144	5.18	< 10	1	0.12	< 10	0.98	745
	201	238	200	2.89	1.8	955	150	1.0	4	1.46	< 0.5	49	39	329	8.10	< 10	< 1	0.17	10	0.96	920

CERTIFICATION :

B. Campbell

APPENDIX E

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, TOM BELL, of Box 33, R.R. #1, Kispiox Valley Road, Hazelton, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Prospector whose primary employment since 1973 has been in the field of mineral exploration.
2. THAT my experience has encompassed a wide range of geological environments and has allowed considerable familiarization with standard exploration techniques.
3. THAT this report is based on fieldwork carried out under my direction from July 24 through 27, 1989.

DATED at Vancouver, British Columbia, this 18 day of October, 1989.

Tom Bell

Tom Bell, Prospector