

REPORT ON STREAM SEDIMENT SURVEY

GULCH 1 TO 4 CLAIMS

LIARD MINING DIVISION

NTS 104J/9

LAT 58°39'

LONG 130°10'

LOG NO: 07-01	RD.
ACTION:	
FILE NO:	

OWNER

CHRIS W. GRAF, P. ENG.

LOG NO: May 6/91	RD.
ACTION: Date received back from amendment	
FILE NO:	

WORK PERFORMED FROM JULY 31st TO AUGUST 12th 1990

REPORT BY

M. WASKETT-MYERS
GEOCHEMIST

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,763

TABLE OF CONTENTS

	Page
Location Map of British Columbia.....	1 /
1.00 SUMMARY.....	2 /
2.00 INTRODUCTION.....	2
2.10 Property Definition.....	2 /
2.20 Location and Access.....	2 /
2.30 Topography and Vegetation.....	2 /
2.40 Objectives.....	3 /
3.00 GEOCHEMISTRY.....	3 /
3.10 Sampling Procedure.....	3 /
3.20 Heavy Mineral Concentration.....	3 /
3.30 Analytical Procedure.....	3 /
4.00 CONCLUSIONS.....	3 /
Legend.....	5 /
Stream Silt Geochem Map.....	6 /
Heavy Mineral Geochem Map.....	7 /
Analytical Results.....	8 /
Statement of Expenditures.....	10 /
Affidavit.....	11 /
Author's Qualifications.....	12 /
Plate 1 - Location Map.....	Attached
Plate 2 - Stream Silt Geochem Map.....	Attached
Plate 3 - Heavy Mineral Geochem Map.....	Attached
Plate 4 - Regional Geology	" /

LOCATION MAP
OF
BRITISH COLUMBIA

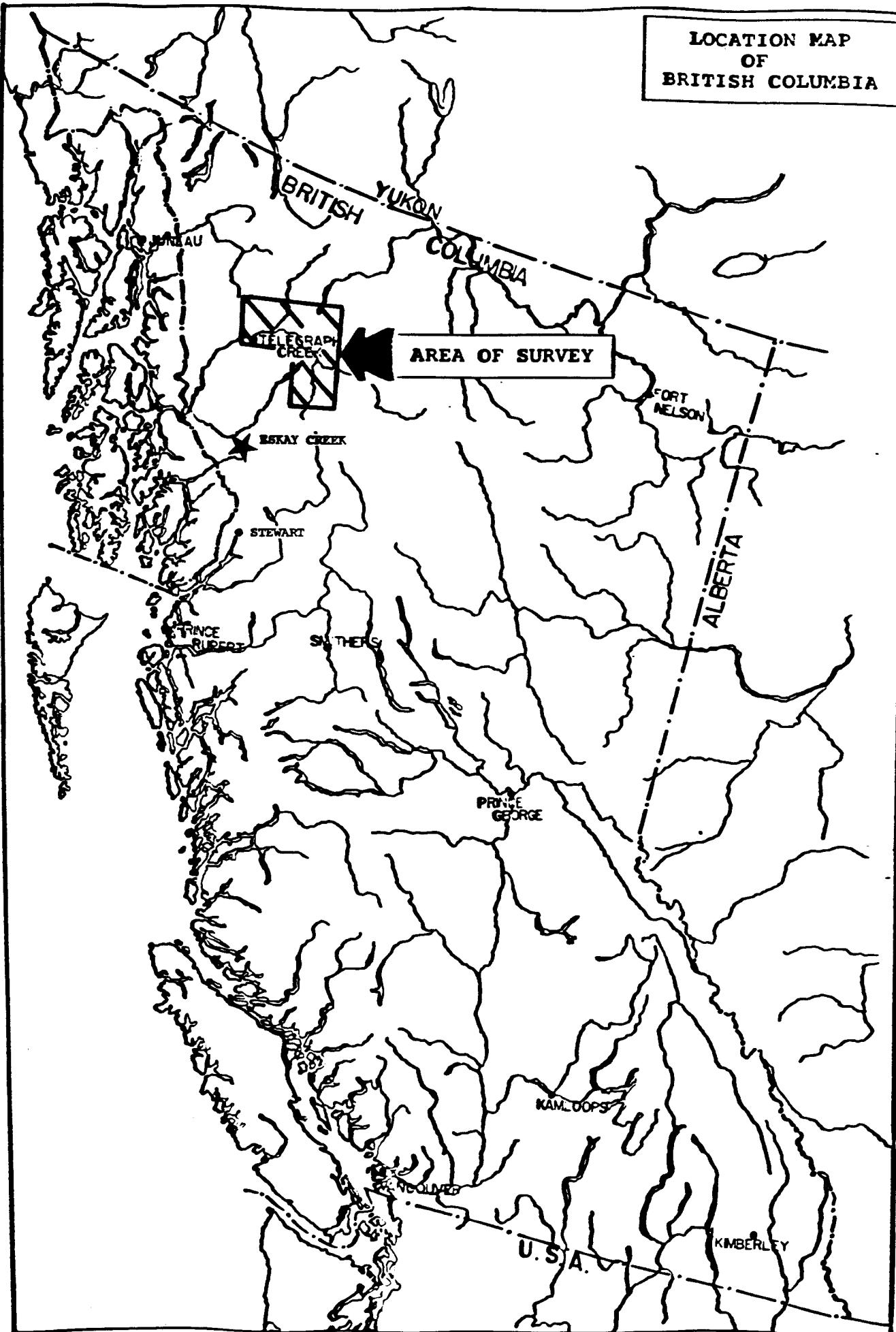


Plate 1

REPORT ON STREAM SEDIMENT GEOCHEMISTRY

GULCH MINERAL CLAIMS

LIARD MINING DIVISION

1.00 SUMMARY

A helicopter supported, silt and heavy mineral sampling program was carried out on creeks flowing on and around the property.

A total of 8 sites were sampled, at which a silt and a heavy mineral sample were taken in each case for a total of 16 samples.

High gold values in three samples were detected, but other metal values were only at background values.

The Gulch claims were staked to cover and explore the bedrock geology at the headwaters of Gulch and Dease creeks, for the source of their significant placer gold deposits.

Total expenditure for this survey was \$2803.87.

2.00 INTRODUCTION

2.10 Property Definition

The Gulch property is 100% owned by Chris W. Graf of Vancouver, British Columbia and consists of 64 units, 3,953.92 acres. The work was performed by M. Waskett-Myers and N. Leach.

<u>Claim Name</u>	<u>Record No.</u>	<u>Number of Units</u>	<u>Expiry Date</u>
Gulch 1	7034	16	March 07, 1991
Gulch 2	7035	20	March 07, 1991
Gulch 3	7036	16	March 06, 1991
Gulch 4	7037	12	March 07, 1991

2.20 Location and access

The Gulch property is located on the west side of Dease Lake, 6 kilometres west along Dease Creek; 24 kilometres north of the town of Dease Lake.

Access is by helicopter.

2.30 Topography and Vegetation

The property is in an area of fairly high relief. Dease Creek flows through the centre of the property and has formed a deep canyon. Elevations range from 914 to 1300 metres.

The vegetation varies from swamp grassland, jack pine, alder, birch and scrub brush.

2.40 Objectives

The geochemical survey was undertaken to assess the potential for base and precious metal mineralization within the survey area. In particular, to locate source of placer gold in creek.

3.00 **GEOCHEMISTRY**

3.10 Sampling Procedure

Sample sites were preselected in the office and 8 silt samples and 8 heavy mineral samples were taken in the field. At the sample site a sample of the stream silt was collected and put into a kraft paper bag. The heavy mineral sample was collected by screening, to -20 mesh, enough material to give a 3-5 kg sample. The heavy mineral samples were collected from parts of the stream where the water flow tended to slow down i.e. from high to low energy. Once collected, the heavies sample was put into a 6 mil plastic bag.

3.20 Heavy Mineral Concentration

To eliminate sample prep and reduce transportation costs; the heavies were concentrated at the helicopter base in Dease Lake. The concentration was carried out by use of a Gold Genie spiral concentrator. The resulting concentrate was sieved to - 40 mesh, dried, the magnetics were removed and the remaining sample placed in a plastic vial.

3.30 Analytical Procedure

All samples were sent to Min-En Labs in North Vancouver for analysis. The samples were analyzed for gold by means of fire assay with atomic absorption finish. Following the gold assay the samples were run for 12 elements (Ag, As, Cd, Co, Cu, Fe, Mn, Ni, Pb, Sb, Zn, Sn) using inductively coupled plasma (I.C.P.).

4.00 **CONCLUSIONS**

Since there was good water flow at all proposed sample sites, the sampling of this property was felt to be successful. Dease creek has a history of placer mining, which is still in evidence today and over 126000 oz. gold being produced since 1874. The placer mining activity has undoubtedly disturbed most of the Dease Creek bed and the lower parts of the tributaries, this throws some doubt as to the value of samples taken in those areas. As it turns out, two of the highest values recorded are for samples (37 - 16,000 ppb & 38 - 11,000 ppb) which are not in a placer mining area.

The third high value (14000 ppb for DH40) though of considerable interest, is not totally unexpected since it is in a placer mining section of the drainage.

The two high samples (37,38) are of definite interest since there is no record of previous work in the immediate area. Follow-up in the form of additional geochemistry, prospecting and geological mapping is recommended.

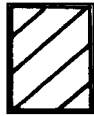
LEGEND FOR GEOCHEMICAL MAPS

HEAVIES

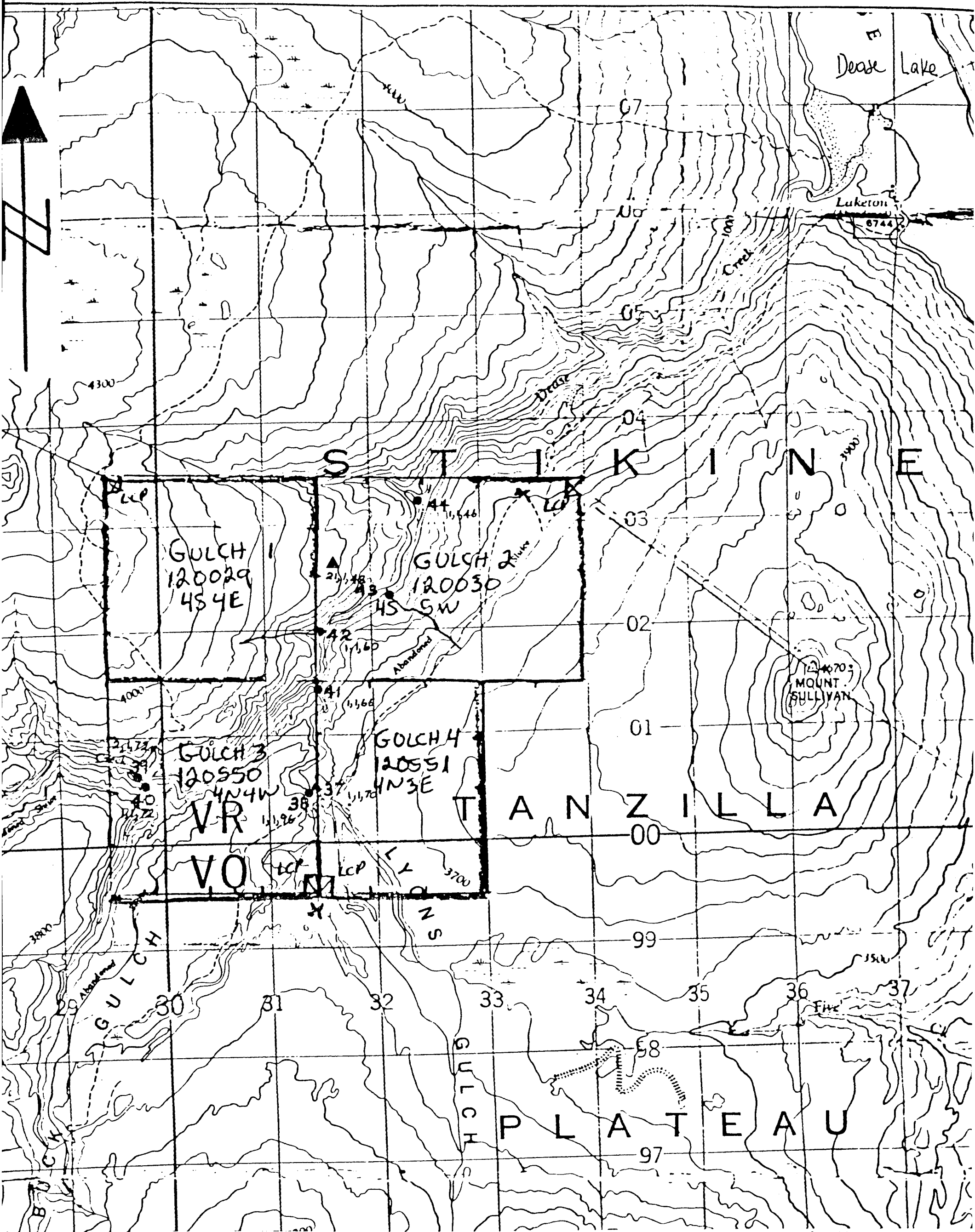
- ▲ Au Greater than 20 ppb
- As Greater than 10 ppm
- Zn Greater than 200 ppm

SILTS

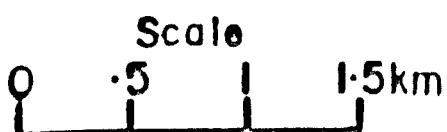
- ▲ Au Greater than 10 ppb
- As Greater than 4 ppm
- Zn Greater than 200 ppm



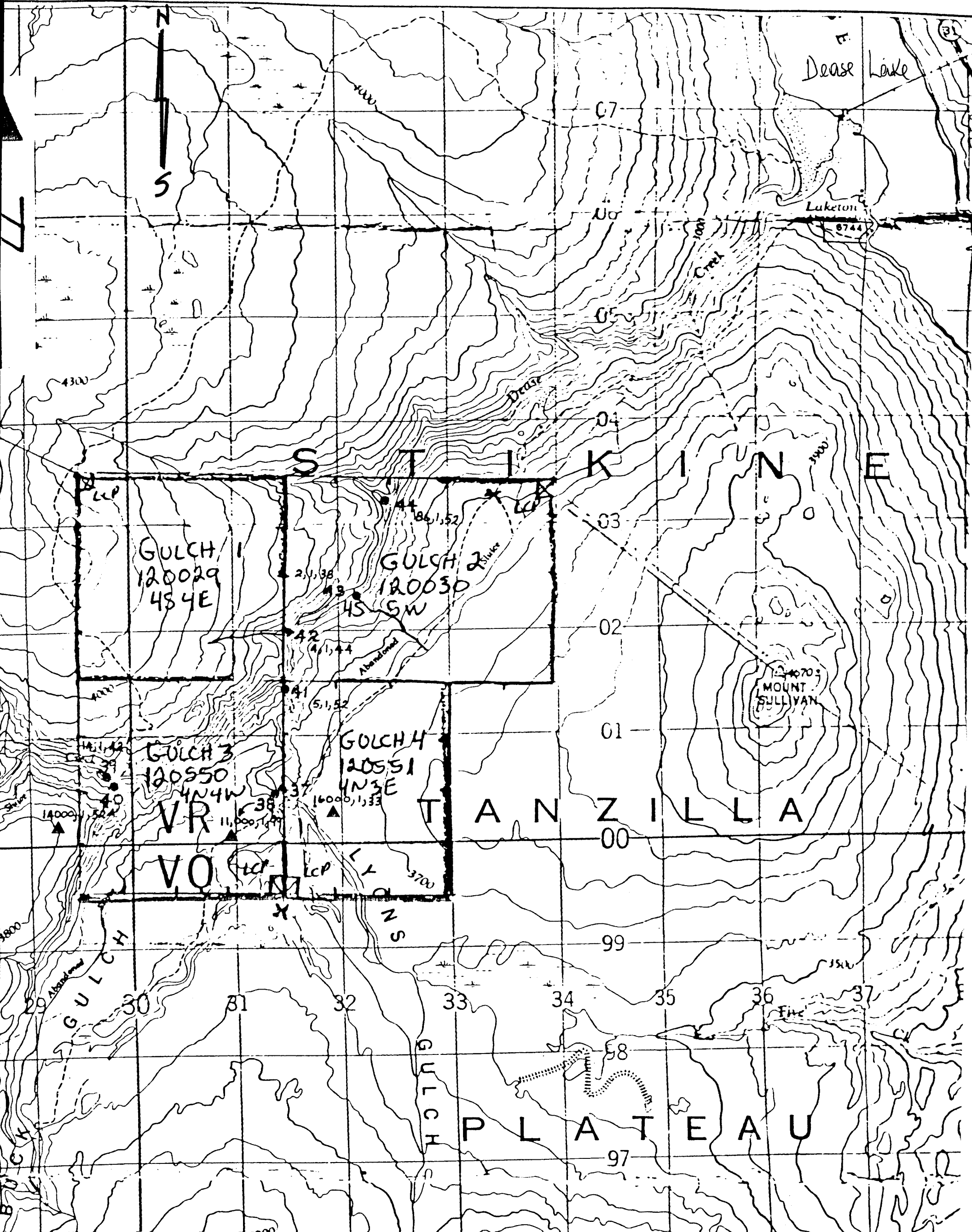
Alienated claims



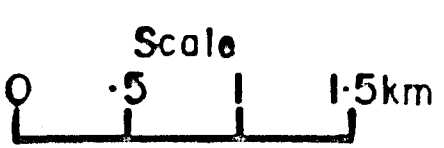
• Sample site Au,As,Zn



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GULCH CLAIMS		
STREAM SILT GEOCHEM		
Scale: 1:50,000	Date: SEP. 1990	Plate: 2



• Sample site Au, As, Zn



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GULCH CLAIMS		
HEAVY MINERAL GEOCHEM		
Scale: 1:50,000	Date: SEP. 1990	Plate: 3

STREAM SILT ASSAY RESULTS

GULCH CLAIMS

SAMPLE NAME	AG PPM	AS PPM	CD PPM	CO PPM	CU PPM	FE PPM	MN PPM	NI PPM	PB PPM	SB PPM	ZN PPM	SN PPM	AU PPB
DS037	0.2	1.0	0.1	23.0	57	37820	2628	140	34	1.0	70	1.0	1
DS038	0.1	1.0	0.1	22.0	69	39940	3782	110	49	1.0	96	1.0	1
DS039	0.9	1.0	0.1	17.0	52	33810	1090	72	33	1.0	72	1.0	2
DS040	1	1.0	0.1	16.0	35	31530	875	70	25	1.0	72	1.0	1
DS041	1.4	1.0	0.1	17.0	37	31980	970	101	25	1.0	66	1.0	1
DS042	1.2	1.0	0.1	16.0	40	31410	636	64	26	1.0	60	1.0	1
DS043	1.1	1.0	0.1	15.0	32	29160	569	67	21	1.0	48	1.0	21
DS044	1.4	1.0	0.1	13.0	29	27230	518	44	20	1.0	46	1.0	1

HEAVY MINERAL ASSAY RESULTS

GULCH CLAIMS

SAMPLE NAME	AG PPM	AS PPM	CD PPM	CO PPM	CU PPM	FE PPM	MN PPM	NI PPM	PB PPM	SB PPM	ZN PPM	SN PPM	AU PPB
DH37	0.8	1	0.1	15	24	32180	596	52	15	1	33	1	16000
DH38	0.1	1	0.1	45	224	77300	1086	151	80	1	99	6	11000
DH39	0.7	1	0.1	19	48	35820	605	51	26	1	42	1	14
DH40	2.7	1	0.1	32	69	54360	651	124	30	1	52	3	14000
DH41	1.6	1	0.1	19	31	34480	614	72	23	1	52	1	5
DH42	1.6	1	0.1	18	26	37320	516	50	21	1	44	1	4
DH43	1.6	1	0.1	16	24	38740	489	38	23	1	38	1	2
DH44	1.5	1	0.1	17	25	38950	537	42	20	1	52	1	86

EXHIBIT "A"
STATEMENT OF EXPENDITURES
STREAM SEDIMENT GEOCHEMISTRY
GULCH 1-4 CLAIMS
LIARD MINING DIVISION

Salaries	M. Waskett-Myers	\$ 243.76
	N. Leach	125.04
Transportation	Air Fare	95.23
	Helicopter	1,771.24
	Car (incl. Gas)	68.41
Room and Board	Motel, Food	72.82
Analysis	Heavies (Prep., Gold, I.C.P.) 8 samples @ \$16.75/sample	134.00
	Silts (Prep., Gold, I.C.P.) 8 samples @ \$13.00/sample	104.00
Field Supplies	Sample Bags, Vials, etc.	8.26
Miscellaneous	Radios, Maps, Cab Fares, etc.	31.66
Report Preparation	Chris Graf	62.50
	M. Waskett-Myers	82.00
	Supplies, Photocopying	<u>4.95</u>
	TOTAL	<u>\$2,803.87</u>

M. WASKETT-MYERS, Geochemist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A SOIL GEOCHEMISTRY PROGRAM

CARRIED OUT ON THE GULCH 1 - 4 MINERAL CLAIMS

in the Liard Mining Division of the
Province of British Columbia

AFFIDAVIT

I, M. Waskett-Myers, of Delta in the Province of British Columbia, make oath and say:

1. That I am a Consultant Geochemist and as such, have a personal knowledge of the facts to which I hereinafter depose;
2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is true copy of expenditures incurred on a Soil Geochemistry program, on the Gulch mineral claims.
3. That the said expenditures were incurred between the 31st day of July, 1990 and the 12th day of August, 1990, for the purpose of mineral exploration on the above-noted claims.



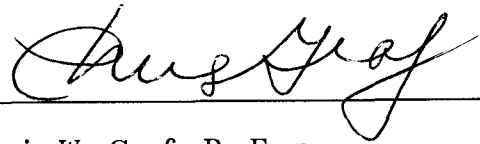
M. WASKETT-MYERS
Geochemist

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STATEMENT OF QUALIFICATIONS

M. D. Waskett-Myers has worked in Mineral Exploration for the past twenty five years, principally in the field of geochemistry.

I consider him qualified to prepare this report.

A handwritten signature in cursive script, reading "Chris W. Graf", written over a horizontal line.

Chris W. Graf, P. Eng.
President



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STIKINE GOLD PROJECT

GULCH CLAIMS

GEOLOGY

Scale: 1:250,000

Date: SEP. 1990

Plate: 4

Unmapped

10.

LEGEND (1:250,000)

- CENOZOIC**
- QUATERNARY**
PLEISTOCENE AND RECENT
 11 Fluvialite gravel, sand, and silt; glacial outwash; till and alpine moraine
- TERTIARY AND QUATERNARY**
LATE TERTIARY AND PLEISTOCENE
 10 Basalt, olivine basalt; minor trachyte and rhyolite; in part younger than 11
- TERTIARY**
PALEOCENE AND (?) LATER
 9 Lacustrine sandstone, siltstone, conglomerate, and tuff; contains coalified wood and thin coal seams
- JURASSIC**
LOWER JURASSIC
 8 Granite-boulder conglomerate, chert-pebble conglomerate, greywacke, quartzose sandstone, siltstone and shale; 8a, metamorphosed equivalents of 8 and including abundant sills and dykes of quartz-feldspar porphyry
- 7 Well bedded greywacke, graded siltstone and silty sandstone, slate; minor volcanic sandstone and pebbly mudstone; 7a, metamorphosed equivalents of 7 and including abundant sills and dykes of quartz-feldspar porphyry
- TRIASSIC AND LATER**
 6 Undifferentiated granitic rocks, mainly granodiorite; 6a, granite and granodiorite; 6b, quartz monzonite; 6c, diorite and monzonite; 6d, syenite; 6e, diorite and gabbro
- TRIASSIC**
UPPER TRIASSIC
 5 Limestone; minor sandstone, argillite, and chert
- 4 Andesite, basalt, tuff, breccia, volcanic sandstone and conglomerate; minor greywacke, argillite, and shale; many small stocks, dykes, and sills of porphyritic andesite and basalt; 4a, andesite and basalt porphyry
- TRIASSIC AND EARLIER**
PRE UPPER TRIASSIC
 3 Undivided, fine-grained clastic sediments and intercalated volcanic rocks, largely altered to greenstone and phyllite; chert, jasper, greywacke, and limestone; 3a, chert, slate, argillite, greywacke, greenstone, and limestone; mainly pre-Permian but probably includes younger rocks; 3b, mainly greenstone; age uncertain; 3c, greenstone, jasper, slate, chert, greywacke, fine-grained clastic rocks, conglomerate; mainly post-Permian, in part older than 2
- PALAEZOIC**
- PERMIAN**
 2 Chiefly limestone and dolomitic limestone; minor chert, argillite, and sandy limestone; may locally include limestone older than 2
- PERMIAN (?)**
 1 Peridotite, serpentinite, and small irregular bodies of meta-diorite and meta-gabbro; age uncertain, may be pre-Permian or Triassic

METAMORPHIC ROCKS

- A Diorite-gneiss, amphibolite, migmatite
- B Biotite-muscovite-quartz gneiss and schist; minor crystalline limestone, greenstone, and quartzite; probably Devonian-Mississippian and (?) Pennsylvanian

- Geological boundary (defined, approximate and assumed)
- Limit of geological mapping
- Bedding (inclined, vertical)
- Bedding (direction of dip known, upper side of bed unknown)
- Schistosity, gneissosity, (inclined, vertical),
- Anticline
- Syncline
- Syncline (overturned)
- Fault (defined, approximate, assumed)
- Fossil locality
- Glacial striae

Geology by H. Gabrielse and J. G. Souther, 1956 and 1961, E. F. Roots, 1958, and Officers of Geological Survey of Canada: 'Operation Stikine', 1956

Cartography by the Geological Survey of Canada, 1962

- Road, dry weather
- Trail
- Horizontal control point
- Intermittent stream
- Marsh
- Glacier
- Contours (Interval 500 feet)
- Height in feet above mean sea-level 5211