MAP NO.:	ASSESSMENT REPORT	X	DOCUMENT NO: 092723
	PROSPECTUS		MINING DISTRICT: Dawson
115 P 15	CONFIDENTIAL	X	TYPE OF WORK: Geology, Geochemistry
	OPEN FILE		

REPORT FILED UNDER: Total Energold Ltd.

DATE PERFORMED: August 1988 and March 1989 — DATE FILED: May 19, 1989

LOCATION: LAT.: 63° 54' N — AREA: Red Mountain

LONG.: 136° 45' W — VALUE $: 700.00

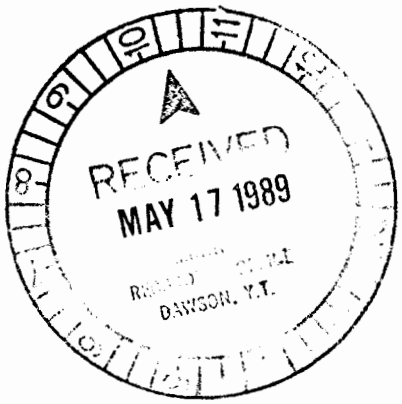
CLAIM NAME & NO.: SPRA 1-4, 65, 68-69 YB 17672 - YB 17678

WORK DONE BY: R. Basnett

WORK DONE FOR: Total Energold Ltd.

DATE TO GOOD STANDING:	REMARKS: #6 SPRAGUE

092723



GEOLOGICAL AND GEOCHEMICAL REPORT

REPORT ON THE SPRA 1-85 MINERAL CLAIMS

SPRAGUE PROPERTY
Red Mountain Area
Dawson & Mayo Mining Districts
NTS 115 P/15
Lat. 63 54' N, Long 136 45'W.

Owner: TOTAL ERICKSON RESOURCES LTD.
#21-1114 First Ave.
Whitehorse, Yukon
Y1A 1A3

Work performed: August 25-31, 1988; March 29 & 30, 1989.

By: Richard Basnett
March 30, 1989

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 700.00 .

M.E. LeBarge

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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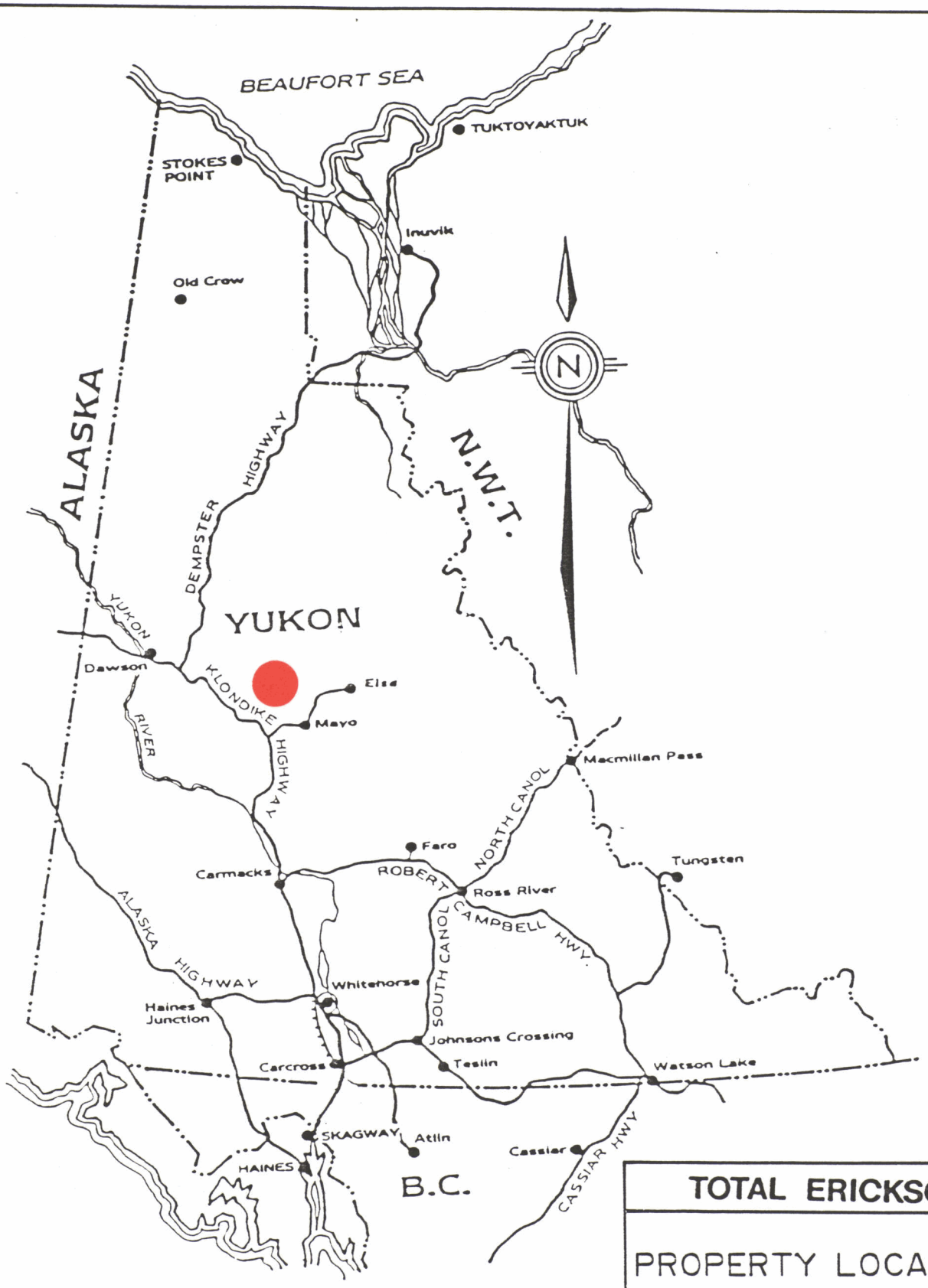


TOTAL ERICKSON		
PROPERTY LOCATION		
DATE: JULY '88	SCALE: 1:8,000,000	FIGURE: 1
DRAWN:		

1. INTRODUCTION

Between August 25 and August 31, 1988 Total Erickson Resources Ltd. completed geological and geochemical surveys over the SPRAGUE property in the northwestern Yukon.

This report provides a summary of the details, results and costs of that work and recommends a program for 1989.

2. LOCATION AND ACCESS

The SPRAGUE property is located at approximate latitude 63 54' N, longitude 136 45' W and appears on claim sheet 115 P/15 in the Dawson and Mayo Mining Districts. It contains 85 unsurveyed mineral claims located and recorded under the Yukon Quartz Mining Act. The claims are held by Total Erickson Resources Ltd. The particulars of the claims are outlined as follows.

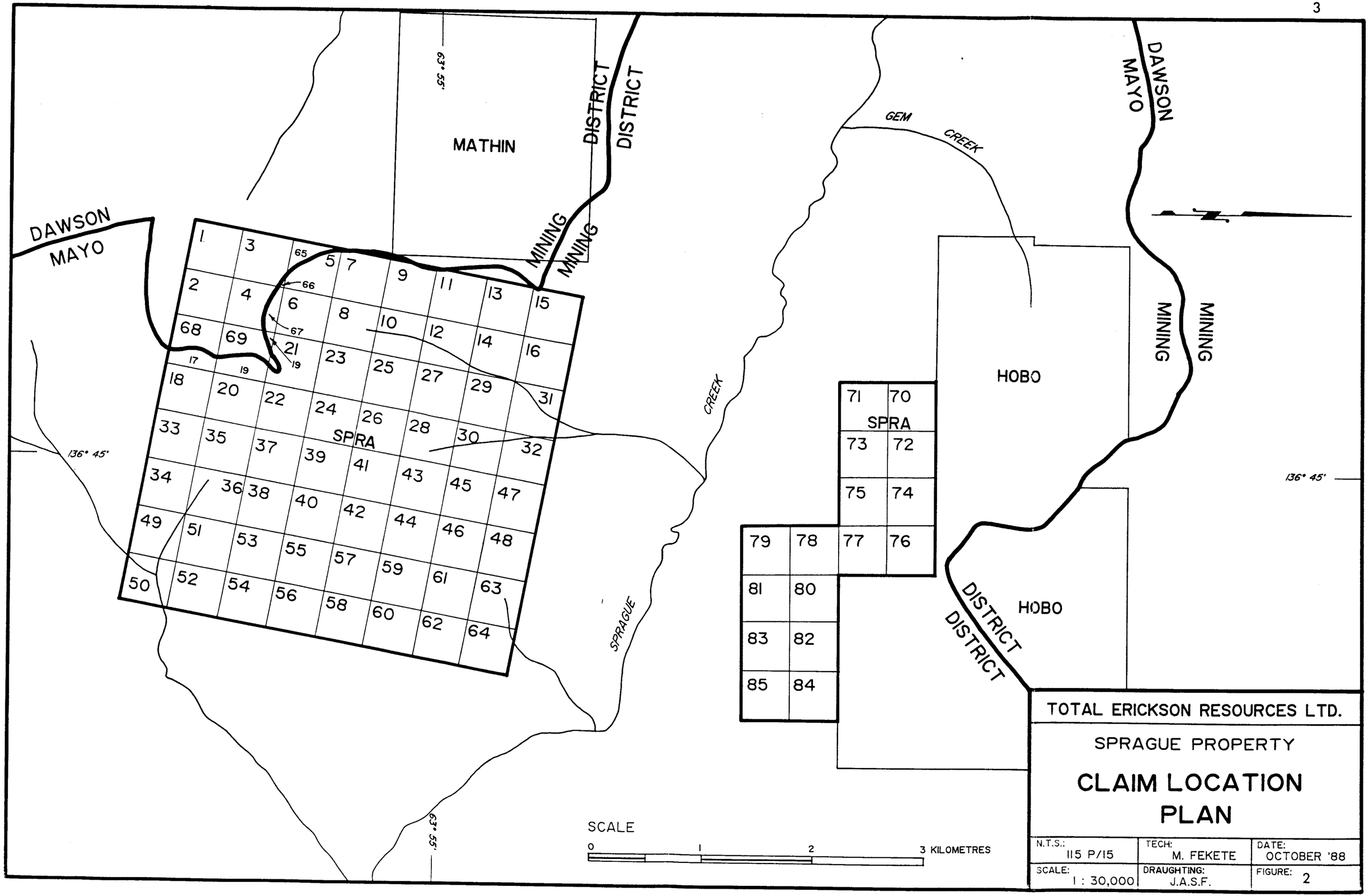
Claim Name	Record Number	Date Recorded	District
SPRA 1-4	YB17672-17675	August 16,1988	Dawson
SPRA 5-64	YBO2622-02681	August 18,1988	Mayo
SPRA 65	YB17676	August 16,1988	Dawson
SPRA 66-67	YB02682-02683	August 18,1988	Mayo
SPRA 68-69	YB17677-17678	August 16,1988	Dawson
SPRA 70-85	YB02684-02699	August 18,1988	Mayo

Access to the property is by helicopter, available for charter in Dawson City 130 km to the west. Placer miners have built a 4x4 road into the Little South Klondike Valley approximately 6 km from the South block. There is also a winter Cat trail in Sprague Creek Valley which goes between the two claim blocks.

3. HISTORY

The area has been continuously prospected since the 1920's. Between 1978 and 1982 exploration for tin and tungsten was completed mainly by the Cortin Joint Venture (CCH Resources, INCO, Billiton Canada Ltd.), Canada Tungsten Mining Corp., and Cominco Ltd.. In the last few years placer mining has spread into the area from the Clear Creek Camp about 12 km to the south.

Total Erickson staked the property in mid-August, 1988 following the release of G.S.C. Open File 1650, a regional stream sediment survey (Figure 3A).



TOTAL ERICKSON RESOURCES LTD.

SPRAGUE PROPERTY

CLAIM LOCATION PLAN

N.T.S.: 115 P/15	TECH: M. FEKETE	DATE: OCTOBER '88
SCALE: 1 : 30,000	DRAUGHTING: J.A.S.F.	FIGURE: 2

4. REGIONAL GEOLOGY

The property is underlain by schists, quartzites and phyllites of Precambrian Yukon Group which have been thrust over Ordovician (?) slates, phyllites and quartzites. Cretaceous syenites and quartz monzonites intrude the metasediments as dyke swarms. On the west margin of the South Block the metasediments have been intruded by a small circular granitic stock (Figure 3).

5. 1988 EXPLORATION PROGRAM

5.1. Mineralization and Prospecting

One day of cursory mapping and prospecting (two geologists) on the North Claim block did not find any mineralization although favourable geology was encountered. A number of granitic stocks and sills intrude Paleozoic sediments.

Mineralization on the South Claim block consists of quartz-arsenopyrite veins and stockworks. Some areas of the South Block show abundant, mineralized vein and stockwork float but prospecting has not located any veins in outcrop. A magnesium skarn occurs adjacent to the granitic stock on the east margin of the South Block. Narrow alternating bands of dolomite and diopside give the skarn a distinctive "zebra" texture. Up to 3% pyrite, pyrrhotite and arsenopyrite occur as fine to coarse disseminations in the skarn.

5.2. Geochemistry

Twenty rock samples were collected on prospecting traverses over the South Claim Block (Figure 7, in flap). Samples were analyzed for Au by atomic absorption (AA) and Ag, As, Ba, Cu, Mn, Mo, Ni, Pb, Sb, Zn, W and Cr by Inductively Coupled Plasma (ICP) technique. None of the samples returned significant gold values. However, three samples returned anomalous values for other elements. The following provides brief descriptions of the samples and the anomalous values obtained from them:

Sample No. and Description	Au ppb	Pb ppm	As ppm	Sb ppm
279-Quartz with open spaces partially filled with blebs of sulphide (3%)	10	16	6085	23
280-Silicified rock adjacent to quartz	5	16	450	19
281-Quartz float; open spaced with white to brown rusty textures	30	721	3397	327

LEGEND

CENOZOIC

QUATERNARY
POST-GLACIAL
- 20 — Stream deposits, alluvium

TERTIARY AND LATER
?LIOCENE (?) AND LATER
- 19 — Stream deposits, alluvium. 19a, White Channel gravel
- 21 — Surficial deposits undivided

SELKIRK GROUP
- 18 — Basalt, andesite

TERTIARY
LATE TERTIARY
- 17 — 17a, rhyolite, trachyte; 17b, granite and syenite porphyries, trachyte

EOCENE (?) OR LATER
CARMACKS GROUP
- 16 — Andesite, rhyolite, trachyte, dacite

EOCENE (?)
- 15 — Conglomerate, arkose, sandstone, silt, clay

MESOZOIC

JURASSIC AND/OR CRETACEOUS
COAST INTRUSIONS (13, 14)
- 14 — Granite, granodiorite, quartz monzonite
- 13 — Syenite, monzonite
- 12 — Gabbro, peridotite, serpentine, diorite

CARBONIFEROUS (?) TO (?) CRETACEOUS
- 11 — Andesite, trachyte
- 10 — 10a, conglomerate, chert, tuff, slate; 10b, phyllite, quartzite, 10c, quartzite, chert, phyllite, limestone

ORDOVICIAN (?) OR LATER
- 9 — Quartzite, slate, sandstone, conglomerate; 9a, conglomerate

PALÆOZOIC
- 8 — Limestone, slate, phyllite, quartzite

ORDOVICIAN (?) OR EARLIER
- 6 | 7 — 7 Varicoloured slate; 6 Quartzite, slate, phyllite, limestone

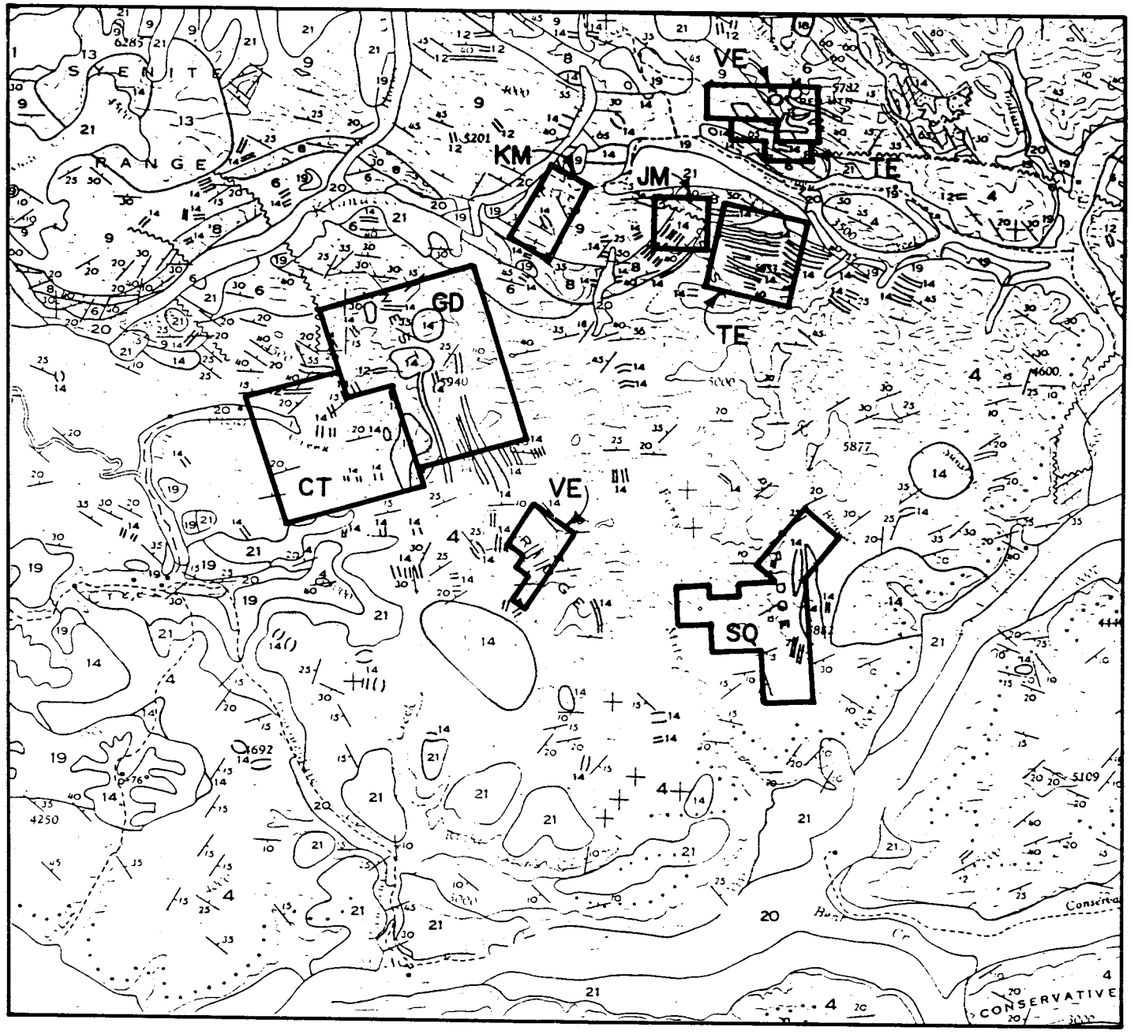
KLONDIKE GROUP
- 5 — Schist, orthogneiss

PROTEROZOIC

YUKON GROUP (1–4)
- 4 — Schist, quartzite, phyllite, limestone
- 3 — Schist, quartzite, limestone
- 2 — Quartzite, schist
- 1 — Paragneiss, quartzite, schist, phyllite, limestone

Geological boundary (approximate, assumed)
Limestone of various ages
Bedding, tops known (inclined, overturned)
Bedding, tops unknown (horizontal, inclined, vertical)
Schistosity, foliation (inclined, vertical)
Fault (defined, approximate, assumed)
Anticline
Glacial striae
Direction of ice movement known)
Limit of last glacial advance (defined, approximate)

Geology by H.S. Hancock, 1938 survey



5 4 3 2 1 0 5 10 15 20 25 KILOMETRES

KEY TO MINERAL PROPERTIES.

TE	Total Erickson
GD	Goldrite
CT	Canada Tungsten
SQ	Silverquest
VE	Valhalla Exploration
JM	J.M. Moreau Enterprises
KM	Kevin McCrory

TOTAL ERICKSON RESOURCES LTD.

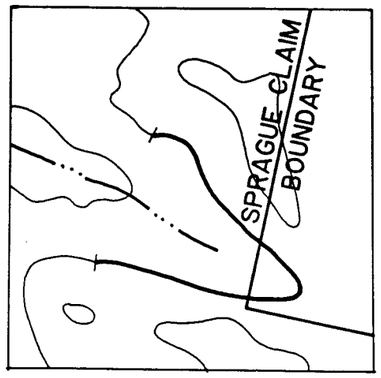
1988 SUMMARY

REGIONAL GEOLOGY

SPRAGUE PROPERTY

N.T.S.: 115 P/14-15	TECH: M. FEKETE	DATE: OCT. '88
SCALE: 1 : 250,000	DRAUGHTING: J.A.S.F.	FIGURE: 3

SPRA 88-01



CONTOUR LINE ELEVATION (approx.)
1524 m (5000 ft.)

VALUES IN PPM	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CC001	1.0	67	201	14	373	4	15	21	2	69	2	38	5
CC002	1.0	139	158	16	443	3	17	23	2	63	2	40	170
CC003	1.0	25	113	12	320	3	16	17	2	54	2	36	5
CC004	1.0	42	238	9	424	3	16	19	3	64	2	40	5
CC005	1.0	32	256	6	649	3	17	29	2	84	1	43	10
CC006	1.0	25	283	7	640	3	16	27	1	85	1	40	5
CC007	1.2	30	210	20	592	3	8	21	1	63	1	34	25
CC008	.9	20	137	25	468	2	24	20	3	59	2	46	5
CC009	.8	34	129	33	624	3	28	25	4	62	2	43	5
CC010	.3	91	178	57	978	2	47	28	1	95	2	81	5
CC011	.6	59	148	43	919	2	51	20	1	91	3	82	5
CC012	.9	43	136	30	584	2	35	19	1	77	1	56	10
CC013	1.0	64	78	19	324	2	25	18	3	54	2	42	5
CC014	.9	30	216	18	483	2	39	25	1	71	3	77	5
CC015	.9	15	144	18	223	3	34	23	3	85	2	58	5
CC016	1.0	17	99	16	234	3	23	24	2	61	2	46	5
CC017	1.0	19	93	16	335	2	19	21	3	66	2	38	5
CC018	1.0	11	75	12	222	3	24	18	3	64	2	36	5
CC019	1.1	11	94	15	212	3	30	20	3	76	2	41	5
CC020	.8	17	117	14	333	3	21	19	2	66	1	37	10
CC021	.7	18	116	12	312	3	22	19	1	73	1	37	5
CC022	.8	34	126	13	269	3	25	17	2	63	2	45	5
CC023	.9	20	102	13	260	3	21	19	2	59	1	34	5
CC024	.9	23	305	19	201	3	22	17	1	69	1	36	5
CC025	.9	108	111	24	246	3	22	17	2	62	1	36	5
CC026	1.0	141	261	45	389	2	23	17	8	54	1	36	10
CC027	1.0	45	81	18	188	2	18	20	5	49	1	33	5
CC028	.7	51	125	17	311	2	20	24	4	60	1	40	5
CC029	1.0	23	87	17	293	3	23	17	4	56	2	35	45
CC030	.9	61	221	30	432	3	25	23	8	68	1	39	10
CC031	.8	70	193	36	393	3	25	19	11	67	1	32	5

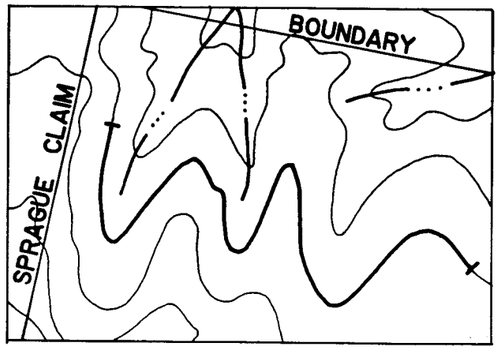
0 200 400 600 800 1000 METRES

TOTAL ERICKSON RESOURCES LTD.

SPRAGUE PROPERTY

SOIL SAMPLE LOCATIONS
CONTOUR LINE 'A'

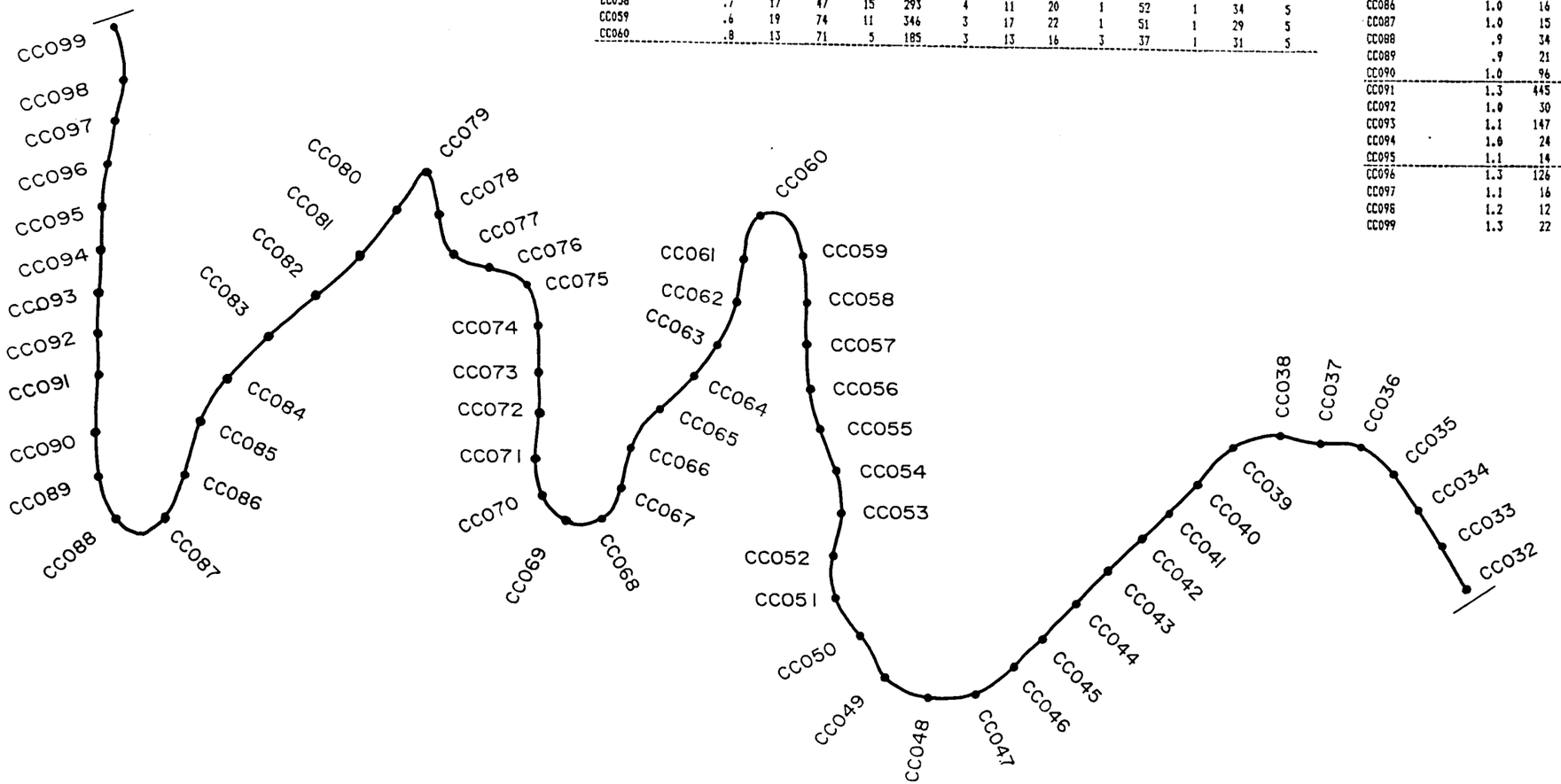
N.T.S.: 115 P/15	TECH: M.F.	DATE: OCTOBER 1988
SCALE: 1 : 12,500	DRAUGHTING: J.A.S.F.	FIGURE: 4



CONTOUR LINE ELEVATION (approx.)
1371 m (4500 ft.)

VALUES IN PPM	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CC032	.7	16	62	13	297	3	19	23	1	57	1	32	35
CC033	.8	24	84	10	326	3	16	40	2	69	1	35	10
CC034	.8	17	67	11	249	3	17	32	2	66	1	33	15
CC035	.6	15	53	27	604	3	29	34	1	77	1	30	5
CC036	1.0	10	64	16	319	3	18	22	2	62	1	30	5
CC037	.9	20	59	12	205	3	14	29	3	56	2	29	5
CC038	.9	25	64	9	129	3	13	21	3	51	1	30	5
CC039	.7	18	77	9	166	3	12	19	2	49	1	32	10
CC040	.9	12	56	6	111	3	13	20	3	43	1	33	5
CC041	.9	13	63	12	191	3	19	18	2	59	1	34	5
CC042	.8	15	72	10	198	3	17	30	2	56	1	31	5
CC043	.8	15	41	4	186	3	11	16	2	43	1	29	5
CC044	.9	14	59	12	345	3	19	21	2	68	1	31	5
CC045	.9	18	86	13	308	3	19	36	2	74	1	36	80
CC046	.9	22	59	18	252	3	18	25	2	66	1	34	5
CC047	.7	16	62	15	261	3	20	24	2	67	2	37	5
CC048	1.0	13	62	12	139	3	15	20	3	49	1	32	75
CC049	.7	14	60	16	251	4	18	25	1	66	2	34	5
CC050	.6	13	61	12	228	3	19	19	2	61	2	41	5
CC051	.8	15	50	10	136	4	14	20	2	45	1	31	5
CC052	.7	15	54	8	151	3	13	18	2	56	1	31	5
CC053	.6	16	58	13	570	3	24	19	1	71	1	34	10
CC054	.9	19	52	14	240	4	14	23	2	56	1	35	15
CC055	.9	19	49	4	210	3	12	17	2	44	2	45	25
CC056	.9	17	47	9	111	3	11	16	3	35	1	30	5
CC057	.9	14	77	18	352	3	26	18	2	57	1	30	5
CC058	.7	17	47	15	293	4	11	20	1	52	1	34	5
CC059	.6	19	74	11	346	3	17	22	1	51	1	29	5
CC060	.8	13	71	5	185	3	13	16	3	37	1	31	5

VALUES IN PPM	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CC061	1.0	12	81	18	346	3	18	18	3	58	1	32	5
CC062	.9	10	69	20	301	3	21	21	2	64	1	33	5
CC063	1.0	19	62	14	281	3	22	19	2	56	2	42	10
CC064	.6	25	63	52	900	3	67	29	3	94	1	28	5
CC065	.8	28	80	22	239	3	20	26	1	73	2	37	5
CC066	.7	24	32	38	483	3	42	39	1	90	1	39	5
CC067	.8	26	75	26	411	3	36	28	2	88	2	36	5
CC068	.7	22	58	15	357	3	21	23	2	72	1	34	10
CC069	1.0	34	79	17	307	3	25	18	3	55	2	39	5
CC070	1.0	18	58	13	170	2	17	15	3	48	1	31	5
CC071	1.0	21	90	16	185	2	12	16	3	47	2	32	5
CC072	1.0	24	107	16	387	4	16	26	1	64	1	37	5
CC073	1.0	29	87	14	248	3	20	19	3	55	2	36	5
CC074	.6	99	210	10	746	3	22	26	2	64	1	35	10
CC075	.8	50	88	17	268	3	19	22	2	51	1	35	5
CC076	1.0	179	153	16	498	3	27	24	2	59	1	40	5
CC077	1.0	22	136	21	385	3	25	18	3	63	1	38	5
CC078	.8	37	70	18	368	3	20	22	1	73	1	35	5
CC079	.7	23	100	24	284	3	31	15	1	65	1	31	5
CC080	1.0	25	75	20	181	3	18	16	2	59	2	35	5
CC081	.9	28	120	31	349	4	30	23	3	72	2	40	5
CC082	.9	30	81	31	287	3	27	21	2	59	1	35	5
CC083	1.0	119	49	27	164	2	11	26	11	54	1	26	10
CC084	.8	23	65	25	247	3	22	19	3	69	2	32	5
CC085	.7	24	76	22	337	2	31	26	10	73	1	31	5
CC086	1.0	16	76	41	213	3	27	26	2	67	1	34	5
CC087	1.0	15	80	39	343	3	33	34	1	80	1	43	5
CC088	.9	34	85	5	227	4	14	26	7	45	1	34	5
CC089	.9	21	239	20	355	3	25	15	3	60	1	31	5
CC090	1.0	96	127	26	305	2	23	16	5	57	2	33	5
CC091	1.3	445	75	43	160	2	7	16	4	21	1	20	5
CC092	1.0	30	79	15	230	2	8	18	1	32	1	21	10
CC093	1.1	147	48	26	214	3	10	12	12	12	1	18	5
CC094	1.0	24	76	10	364	3	8	18	2	33	1	20	5
CC095	1.1	14	63	14	254	3	10	13	2	28	1	19	10
CC096	1.3	126	44	35	73	3	5	13	2	15	1	21	10
CC097	1.1	16	45	8	115	3	6	15	2	20	1	19	5
CC098	1.2	12	50	10	40	3	5	12	2	23	1	19	5
CC099	1.3	22	52	13	426	3	17	18	3	21	1	17	5



0 200 400 600 800 1000 METRES

TOTAL ERICKSON RESOURCES LTD.

SPRAGUE PROPERTY

SOIL SAMPLE LOCATIONS CONTOUR LINE 'B'

N.T.S.:	TECH:	DATE:
115 P/15	M.F.	OCTOBER 1988
SCALE:	DRAUGHTING:	FIGURE:
1 : 12,500	J.A.S.F.	5

Complete sample descriptions and analytical results for all of the samples collected are provided in Appendix 2A.

Soil samples were taken along topographic contours (Figures 4 and 5). A total of 99 samples were collected and analyzed for the same elements as rock samples. Several samples returned anomalous gold values; 170 ppb Au was the highest. Samples that were anomalous in gold also had arsenic and, in some cases, barium enrichment. Analytical results are provided in Appendix 2A.

Geochemical data collected by Cortin J.V. suggests a strong arsenic anomaly in the southwest corner of the South Block.

5.3 Discussion of Results

A grid controlled soil geochemistry survey is necessary to help determine elemental associations and anomalous areas. Arsenic, an element commonly associated with gold, appears highly enriched on the property. Lead, antimony and cadmium may also be useful as pathfinder elements for gold.

6. CONCLUSIONS AND RECOMMENDATIONS

A prospecting and soil sampling program involving 6 people for 4 days was not successful in locating either gold bearing structures or anomalous zones. Granitic stocks and sills found on the North Claim Block should be further prospected to determine where they intrude limestone beds and possibly form skarn. On the South Claim Block, anomalous arsenic, lead, and antimony values were obtained in several rock and soil samples. These showed coincident enrichment with respect to gold and arsenic.

Several other properties in the area display significant mineralization and geochemical anomalies. The most notable of these properties is Goldrite Mining Corp.'s RUM/RYE Claims. Several diamond drill holes which tested geochemical/geophysical anomalies on Goldrite's claims, intersected gold bearing structures. The success of Goldrite's program indicates there is potential for gold mineralization to occur on the SPRAGUE Property.

It is recommended that a two phase exploration program be initiated on the SPRAGUE Property in 1989. The first phase would consist of a detailed soil geochemical survey. The second phase would involve trenching anomalies identified in the first phase if warranted.

7. REFERENCES

1. Bostock, H.S., 1964: Geology of McQuesten - N.T.S. 115 P, Yukon Territory; Geol. Surv., Canada, Map 1143A.
2. D.I.A.N.D., 1981: Yukon Geology and Exploration 1979-1980; page 227.
3. Emond, D.S., 1986: Tin and tungsten veins and skarns in the McQuesten River area, central Yukon; in Yukon Geology, Vol. 1, Exploration and Geological Services, Yukon, D.I.A.N.D., pages 113-118.
4. Green, L.H., 1971: Geology of Mayo, Scougale Creek and McQueston Lake map areas, Yukon Territory (105 M/15, 106 D/2, 106 D/3); Geol. Surv. Canada, Mem. 357 (Incl. Maps 1270A, 1269A, 1268A).
5. G.S.C. Open File 1650, 1988: Regional Stream Sediment and Water Geochemical Data, Central Yukon; N.T.S. 115 P and 105 M N1/2.
6. Kidlark, R.G., 1979: Report 090559 for Amax Canada, Ltd.; HOBO.

8. STATEMENT OF EXPENDITURES - NORTH CLAIM BLOCK

Personnel

	Position	Days	Rate	Totals
D.A. Rawsthorn	Geologist	1	$200/d	$200
J.E. Critchley	Geologist	1	$140/d	140
				$340
Helicopter				
1 hour				$550
Orthophoto Preparation				
				$775
		Total Expenses		$1,665

8. STATEMENT OF EXPENDITURES - SOUTH CLAIM BLOCK

Personnel

	Position	Days	Rate	Totals
D.A. Rawsthorn	Geologist	2	$200/d	$400
M. Fekete	Geologist	4	$170/d	680
J.E. Critchley	Geologist	2	$140/d	280
A.G. Nikolajevich	Geologist	3	$140/d	420
R.Basnett	Geologist	2	$250/d	500
C. Hauth	Assistant	3	$115/d	345
D.M. McDonald	Assistant	3	$115/d	345
				$3310

Geochemistry 99 soil and 21 rock samples	$1604
Helicopter 2 hours	$1100
Food and Accommodation 19 man days @ $50/man/day	$950
Travel from Whitehorse	$1000
Field Supplies	$200
Orthophoto Preparation	$775
Total Expenses	**$8,939**

9. STATEMENT OF QUALIFICATIONS

1. I am a graduate of the University of British Columbia, having obtained a B.Sc. in Geology in 1975.

2. I have been employed as a geologist in the mining and mineral exploration industry in Canada for 13 years.

3. I am a member of the Geological Association of Canada.

4. I participated in the work described in this report as Yukon Exploration Manager for Total Erickson Resources Ltd. This report was compiled from field notes and data obtained from exploration staff.

May 15/89

Date: _____

Richard Basnett

LEGEND

CENOZOIC

QUATERNARY
POST-GLACIAL
- 20 — Stream deposits, alluvium

TERTIARY AND LATER
PLIOCENE (?) AND LATER
- 19 — Stream deposits, alluvium; 19a, White Channel gravel

21 — Surficial deposits undivided

SELKIRK GROUP
- 18 — Basalt, andesite

TERTIARY
LATE TERTIARY
- 17 — 17a, rhyolite, trachyte; 17b, granite and syenite porphyries, trachyte

EOCENE (?) OR LATER
CARMACKS GROUP
- 16 — Andesite, rhyolite, trachyte, dacite

EOCENE (?)
- 15 — Conglomerate, arkose, sandstone, silt, clay

MESOZOIC

JURASSIC AND/OR CRETACEOUS
COAST INTRUSIONS (13, 14)
- 14 — Granite, granodiorite, quartz monzonite
- 13 — Syenite, monzonite
- 12 — Gabbro, peridotite, serpentine, diorite

CARBONIFEROUS (?) TO (?) CRETACEOUS
- 11 — Andesite, trachyte
- 10 — 10a, conglomerate, chert, tuff, slate; 10b, phyllite, quartzite; 10c, quartzite, chert, phyllite, limestone

PALAEOZOIC

ORDOVICIAN (?) OR LATER
- 9 — Quartzite, slate, sandstone, conglomerate; 9a, conglomerate
- 8 — Limestone, slate, phyllite, quartzite

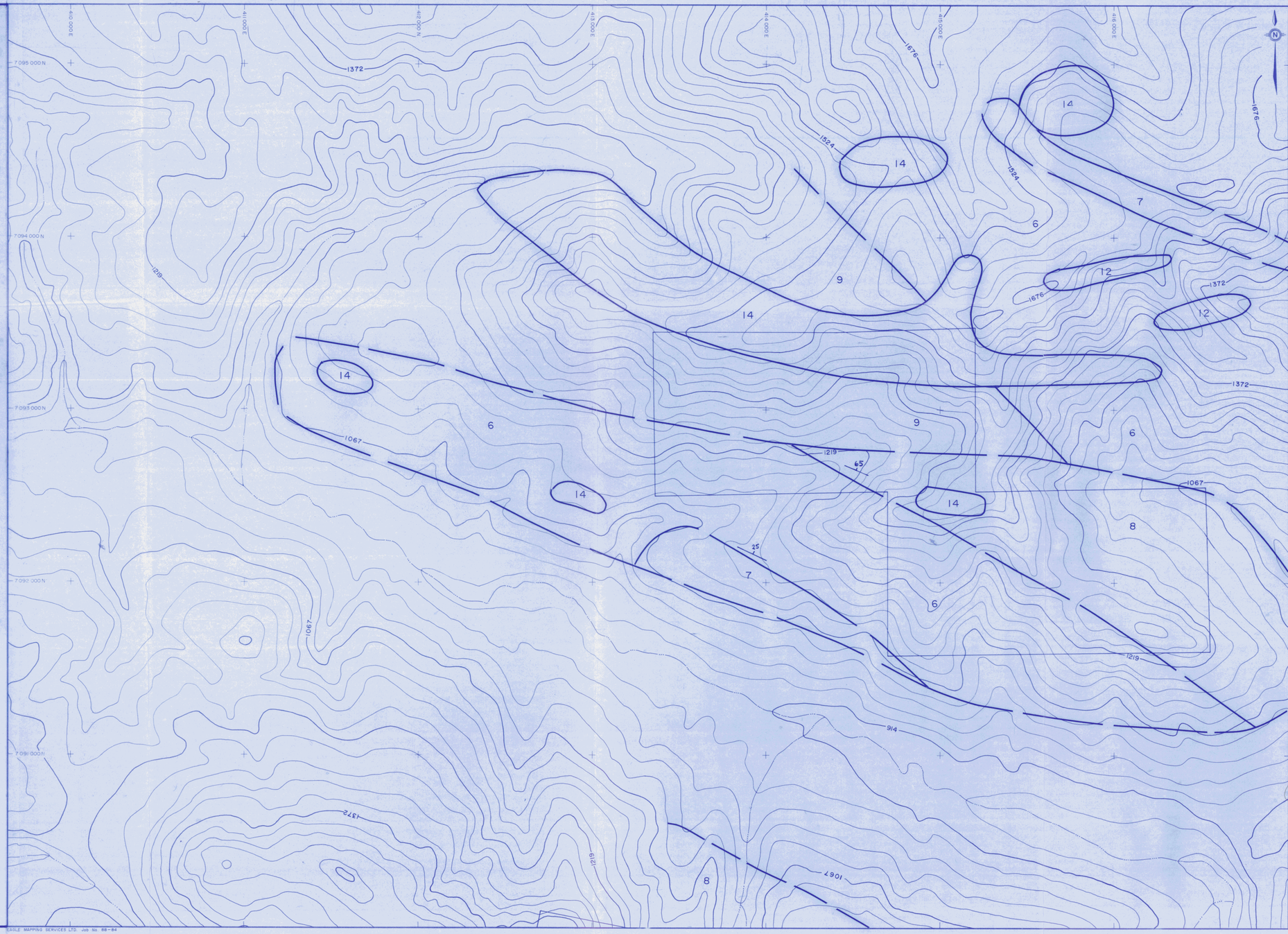
ORDOVICIAN (?) OR EARLIER
- 6, 7 — 7. Varicoloured slate; 6. Quartzite, slate, phyllite, limestone

KLONDIKE GROUP
- 5 — Schist, orthogneiss

PROTEROZOIC

YUKON GROUP (1-4)
- 4 — Schist, quartzite, phyllite, limestone
- 3 — Schist, quartzite, limestone
- 2 — Quartzite, schist

1 — Paragneiss, quartzite; schist, phyllite, limestone



AREA INDEX

19	18	17	6,570,700N
6	5	4	6,568,200N
7	0	3	6,565,700N
8	1	2	6,563,200N
			6,560,700N

455,800E 459,300E 462,800E 466,300E

ENLARGEMENT OF AREA ___

SYMBOLS

- Rock outcrop, area of outcrop, float
- Geological boundary (defined, inferred)
- Bedding (horizontal, inclined, vertical, overturned, dip unknown)
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
- Lineation, axis of minor folds (horizontal, inclined, vertical)
- Drag-fold (arrow indicates plunge)
- Fault (defined, interpreted)
- Fault (inclined, vertical, relative movement)
- Surface joint (horiz., inclined, vert., dip unknown)
- U/G joint (horiz., inclined, vert., dip unknown)
- Syncline (defined, approximate)
- Anticline (defined, approximate)
- Anticline and syncline (overturned)
- Intensity (weak, moderate, strong)
- Vein (inclined, vertical, dip unknown)
- Zone of alteration
- Rock sample, X 0.324, 0.15 Assay: Au, Ag ounce/ton
- Trench
- Adit or tunnel
- Rock dump or tailings
- Shaft, raise, winze
- Diamond drill hole (entering section, leaving section) (on section / plan)
- Contours 2500
- Stream or creek (perennial, intermittent)
- Marsh
- Lake
- Road

SCALE: 1:10 000

TOTAL ERICKSON RESOURCES LTD.

SPRAGUE PROPERTY

GEOLOGY

(after Bostock 1946-1949)

Project Name: _____ Project No.: _____

Latitude: _____ Longitude: _____

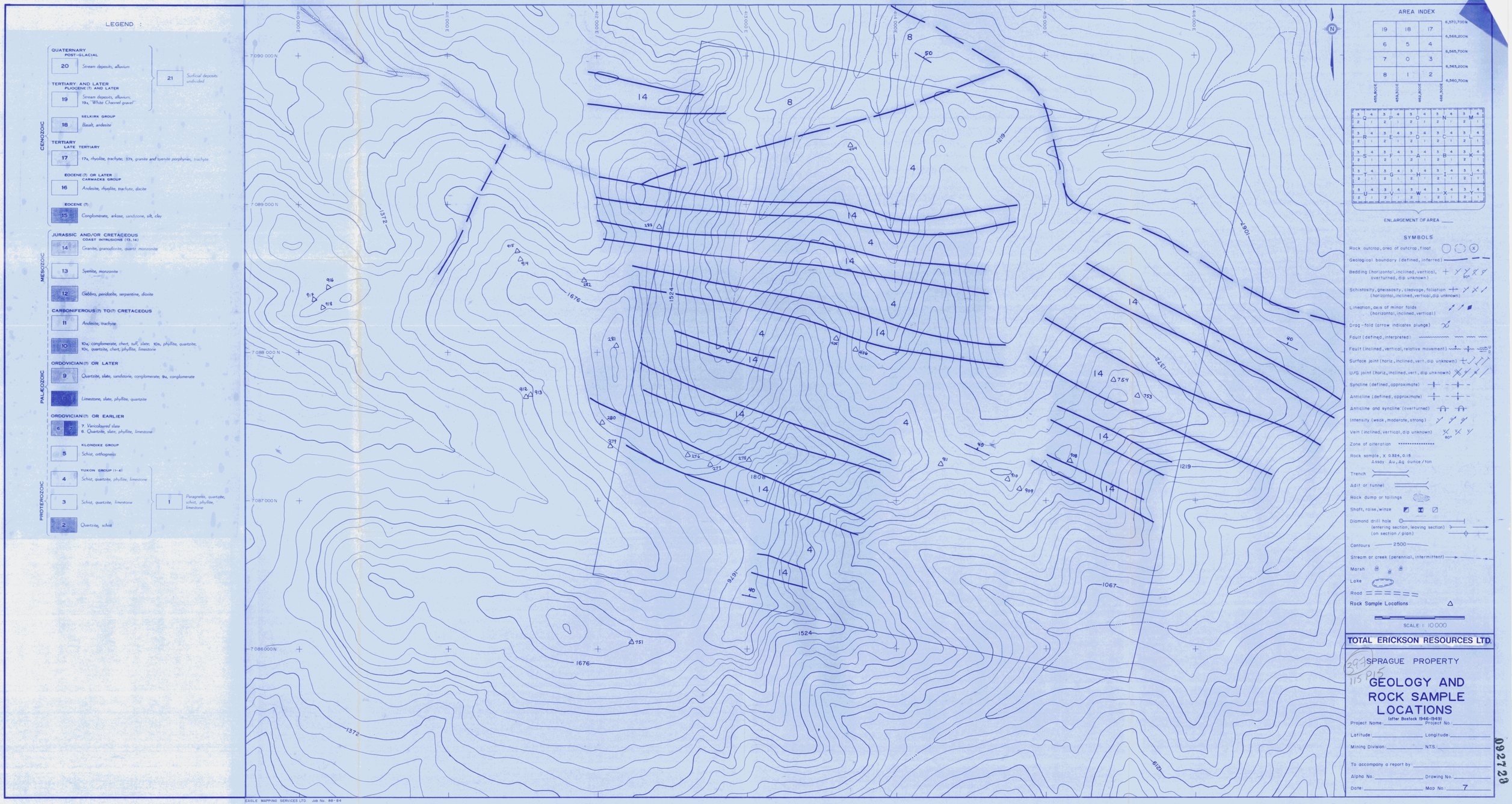
Mining Division: _____ N.T.S.: _____

To accompany a report by: _____

Alpha No.: _____ Drawing No.: _____

Date: _____ Map No.: 6

EAGLE MAPPING SERVICES LTD. Job No. 88-84


LEGEND :
CENOZOIC
QUATERNARY
POST-GLACIAL
20 Stream deposits, alluvium
TERTIARY AND LATER
PLIOCENE (?) AND LATER
19 Stream deposits, alluvium; 19x, 'White Channel gravel'
21 Surficial deposits undivided
SELKIRK GROUP
18 Basalt, andesite
TERTIARY
LATE TERTIARY
17 17x, rhyolite, trachyte; 17y, granite and syenite porphyries, trachyte
EOCENE (?) OR LATER
CARMACKS GROUP
16 Andesite, rhyolite, trachyte, dacite
EOCENE (?)
15 Conglomerate, arkose, sandstone, silt, clay
MESOZOIC
JURASSIC AND/OR CRETACEOUS
COAST INTRUSIONS (13, 14)
14 Granite, granodiorite, quartz monzonite
13 Syenite, monzonite
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CARBONIFEROUS (?) TO (?) CRETACEOUS
11 Andesite, trachyte
10 10x, conglomerate, chert, tuff, slate; 10s, phyllite, quartzite; 10t, quartzite, chert, phyllite, limestone
PALAEOZOIC
ORDOVICIAN (?) OR LATER
9 Quartzite, slate, sandstone, conglomerate; 9x, conglomerate
8 Limestone, slate, phyllite, quartzite
ORDOVICIAN (?) OR EARLIER
6 7 7 Varicoloured slate
6 Quartzite, slate, phyllite, limestone
KLONDIKE GROUP
5 Schist, orthogneiss
YUKON GROUP (1-4)
4 Schist, quartzite, phyllite, limestone
3 Schist, quartzite, limestone
1 Paragneiss, quartzite, schist, phyllite, limestone
PROTEROZOIC
2 Quartzite, schist
411 000 E
412 000 E
413 000 E
414 000 E
415 000 E
416 000 E
7 090 000 N
7 089 000 N
7 088 000 N
7 087 000 N
7 086 000 N
1372
1676
1524
1219
1067
1808
2191
AREA INDEX
19 18 17
6 5 4
7 0 3
8 1 2
6,570,700N
6,568,200N
6,565,700N
6,563,200N
6,560,700N
455,800E
459,800E
462,800E
466,800E
ENLARGEMENT OF AREA ____
SYMBOLS
Rock outcrop, area of outcrop, float
Geological boundary (defined, inferred)
Bedding (horizontal, inclined, vertical, overturned, dip unknown)
Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
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Anticline and syncline (overturned)
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Zone of alteration
Rock sample, X 0.324, 0.15 Assay Au, Ag ounce/ton
Trench
Adit or tunnel
Rock dump or tailings
Shaft, raise, winze
Diamond drill hole (entering section, leaving section) (on section / plan)
Contours 2500
Stream or creek (perennial, intermittent)
Marsh
Lake
Road
Rock Sample Locations
SCALE 1 : 10 000
TOTAL ERICKSON RESOURCES LTD.
SPRAGUE PROPERTY
GEOLOGY AND ROCK SAMPLE LOCATIONS
(after Bostock 1946-1949)
Project Name: Project No.:
Latitude: Longitude:
Mining Division: N.T.S.:
To accompany a report by:
Alpha No.: Drawing No.:
Date: Map No.: 7
092728
EAGLE MAPPING SERVICES LTD. Job No. 88-84

APPENDIX 1A

Analytical Procedures

PHONE: (604) 980-5814 or 988-4524 TELEX: 04-352828

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Analytical Procedure Report for Assessment Work

31 Element ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn, Ga, Sn, W, Cr

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

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

1.0 gram of the sample is digested for 4 hours with an aqua regia $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and $HClO_4$ mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

APPENDIX 2A

Analytical Results

TOTAL ERICKSON RESOURCES LTD.

Property: MAHTIN
N.T.S.: 115 P/15
Date: August, 1988

SAMPLE REPORT

Sample No.	Location	Description	Attitude	Width	Analytical Results Au	Ag	Pb	Zn	Cu	As	Sb
CCR914		Green banded MgSiO Skarn		float							
CCR915		MgSiO Skarn - green banded carbonate		float		following page					
CCR916		Bedded chert and carbonate with disseminated pyrite and arsenopyrite		float							
CCR917		Carbonate and schist with disseminated sulphides		float							
CCR918		Grey banded chert and calcite with or without arsenopyrite		float							
CCR284		Rusty quartz with open spaces and cockscomb textures, no visible sulfides, from push at one end of trench		float							
STDB		N/A									

TOTAL ERICKSON RESOURCES LTD.

Property: SPRAGUE
N.T.S.: 115 P/15
Date: August 20-24, 1988

SAMPLE REPORT

Sample No.	Location	Description	Attitude	Width	Analytical Results Au	Ag	Pb	Zn	Cu	As	Sb
CCR751	See Map	Quartz float, white, massive with a sugar texture (quartzite?)		0.5							
CCR752	See Map	Quartz-chlorite-schist with quartz veining		float		following page					
CCR753	See Map	Quartz sweats in conglomerate, subcrop		float							
CCR754	See Map	Green chlorite schist with 80 - 90% quartz flooding, subcrop, arsenopyrite?		grab							
CCR907	See Map	Boudined quartzite in phyllite		grab							
CCR908	See Map	Quartz veins hosted by arkose and phylite	$120^{o}/45^{o}N$	grab grab							
CCR909	See Map	Quartz vein in contact with a syenite sill		grab							
CCR910	See Map	Quartz flooded, phyllite, gossan		grab							
CCR911	See Map	Quartzites with white quartz lenses		grab							
CCR912	See Map	Schist, skarn, above syenite sill, disseminated pyrite.		float							
CCR913	Next to CCR912	Quartzite with thin laminated sulphides		float							

COMPANY: TOTAL ERICKSON RESOURCES — MIN-EN LABS ICP REPORT — (ACTIVE) PAGE 1 OF 1

PROJECT NO: SPRAGUE P.O.2292 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 8-1429R/P2

ATTENTION: A.NIKOLAJEVICH — (604)980-5814 OR (604)988-4524 — * TYPE ROCK GEOCHEM * — DATE:SEPT 12, 1988

(VALUES IN PPM)	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CCR276	1.4	53	10	22	26	10	16	15	9	12	4	150	5
CCR277	1.4	63	12	24	33	10	20	13	9	12	6	200	5
CCR278	1.4	56	20	22	34	10	19	20	9	14	3	144	5
CCR279	1.5	6085	17	25	24	10	19	16	23	12	8	216	10
CCR280	1.6	450	24	69	18	10	15	16	19	12	2	127	5
CCR281	2.3	3397	49	63	24	11	16	721	327	32	5	195	30
CCR282	1.0	203	2005	75	398	9	37	21	1	94	1	99	5
CCR283	.8	60	211	25	159	8	29	2	1	33	1	121	5
CCR751	1.4	57	17	20	22	10	18	13	8	11	4	157	5
CCR752	1.4	65	38	26	18	10	17	23	15	12	3	137	5
CCR753	1.5	60	7	20	45	10	19	12	10	14	5	168	5
CCR754	1.2	47	31	13	465	9	27	17	6	40	3	160	5
CCR907	1.5	63	14	21	32	10	20	14	11	13	6	184	5
CCR908	1.5	55	10	23	154	10	24	16	6	20	8	238	5
CCR909	1.5	57	7	21	31	10	18	13	9	11	5	180	5
CCR910	.9	33	13	10	528	9	41	16	1	54	1	164	5
CCR911	1.4	52	9	20	35	10	19	16	8	11	6	197	5
CCR912	.9	36	152	23	152	8	35	12	4	35	1	95	10
CCR913	1.2	43	102	27	133	9	26	12	6	43	1	96	5
CCR404	1.4	52	26	29	171	9	27	15	8	31	4	175	5
CCR405	1.5	57	14	33	44	10	16	27	6	25	5	178	5
CCR406	1.4	50	12	41	113	10	30	17	8	24	8	229	5

COMPANY: TOTAL ERICKSON RESOURCES — MIN-EN LABS ICP REPORT — (ACT:F31) PAGE 1 OF 1

PROJECT NO: SPRAGUE P.O.2292 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 8-1428R/P1

ATTENTION: A.NIKOLAJEVICH — (604)980-5814 OR (604)988-4524 — # TYPE ROCK GEOCHEM # — DATE:SEPT 12, 1988

(VALUES IN PPM)	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CCR914	.9	16	39	38	203	7	21	14	1	15	1	67	5
CCR915	.9	162	105	108	864	8	17	12	160	70	1	98	5
CCR916	1.3	53	33	231	110	8	21	13	3	32	1	68	5
CCR917	1.0	28	164	38	210	8	24	13	3	32	1	70	5
CCR918	.6	42	133	16	291	7	19	14	7	18	2	50	10
CCR284	1.3	84	37	28	164	10	21	16	30	50	8	163	5
STDB	1.5	1	80	69	322	14	19	25	1	36	1	92	5

COMPANY: TOTAL ERICKSON RESOURCES — MIN-EN LABS ICP REPORT — (ACT:F31) PAGE 1 OF 1

PROJECT NO: SPRAGUE P02292 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 8-1428S/P1+2

ATTENTION: A.NIKOLEJEVICH — (604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM * — DATE:SEPTEMBER 20, 1988

(VALUES IN PPM)	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CC001	1.0	67	201	14	373	4	15	21	2	69	2	38	5
CC002	1.0	139	158	16	443	3	17	23	2	63	2	40	170
CC003	1.0	25	113	12	320	3	16	17	2	54	2	36	5
CC004	1.0	42	238	9	424	3	16	19	3	64	2	40	5
CC005	1.0	32	256	6	649	3	17	29	2	84	1	43	10
CC006	1.0	25	283	7	640	3	16	27	1	85	1	40	5
CC007	1.2	30	210	20	592	3	8	21	1	63	1	36	25
CC008	.9	20	137	25	468	2	24	20	3	59	2	46	5
CC009	.8	34	129	33	624	3	28	25	4	62	2	43	5
CC010	.3	91	178	57	978	2	47	28	1	95	2	81	5
CC011	.6	59	148	43	919	2	51	20	1	91	3	82	5
CC012	.9	43	136	30	584	2	35	19	1	77	1	56	10
CC013	1.0	64	78	19	324	2	25	18	3	54	2	42	5
CC014	.9	30	216	18	483	2	39	25	1	71	3	77	5
CC015	.9	15	144	18	223	3	34	23	3	85	2	58	5
CC016	1.0	17	99	16	234	3	23	24	2	61	2	46	5
CC017	1.0	19	93	16	335	2	19	21	3	66	2	38	5
CC018	1.0	11	75	12	222	3	24	18	3	64	2	36	5
CC019	1.1	11	94	15	212	3	30	20	3	76	2	41	5
CC020	.8	17	117	14	333	3	21	19	2	66	1	37	10
CC021	.7	18	116	12	312	3	22	19	1	73	1	37	5
CC022	.8	34	126	13	269	3	25	17	2	63	2	45	5
CC023	.9	20	102	13	260	3	21	19	2	59	1	34	5
CC024	.9	23	305	19	201	3	22	17	1	69	1	36	5
CC025	.9	108	111	24	246	3	22	17	2	62	1	36	5
CC026	1.0	141	261	45	389	2	23	17	8	54	1	36	10
CC027	1.0	45	81	18	188	2	18	20	5	49	1	33	5
CC028	.7	51	125	17	311	2	20	24	4	60	1	40	5
CC029	1.0	23	87	17	293	3	23	17	4	56	2	35	45
CC030	.9	61	221	30	432	3	25	23	8	68	1	39	10
CC031	.8	70	193	36	393	3	25	19	11	67	1	32	5
CC032	.7	16	62	13	297	3	19	23	1	57	1	32	35
CC033	.8	24	84	10	326	3	16	40	2	69	1	35	10
CC034	.8	17	67	11	249	3	17	32	2	66	1	33	15
CC035	.6	15	53	27	604	3	29	34	1	77	1	30	5
CC036	1.0	10	64	16	319	3	18	22	2	62	1	30	5
CC037	.9	20	59	12	205	3	14	29	3	56	2	29	5
CC038	.9	25	64	9	129	3	13	21	3	51	1	30	5
CC039	.7	18	77	9	166	3	12	19	2	49	1	32	10
CC040	.9	12	56	6	111	3	13	20	3	43	1	33	5
CC041	.9	13	63	12	191	3	19	18	2	59	1	34	5
CC042	.8	15	72	10	198	3	17	30	2	56	1	31	5
CC043	.8	15	41	4	186	3	11	16	2	43	1	29	5
CC044	.9	14	59	12	345	3	19	21	2	68	1	31	5
CC045	.9	18	86	13	308	3	19	36	2	74	1	36	80
CC046	.9	22	59	18	252	3	18	25	2	66	1	34	5
CC047	.7	16	62	15	261	3	20	24	2	67	2	37	5
CC048	1.0	13	62	12	139	3	15	20	3	49	1	32	75
CC049	.7	14	60	16	251	4	18	25	1	66	2	34	5
CC050	.6	13	61	12	228	3	19	19	2	61	2	41	5
CC051	.8	15	50	10	136	4	14	20	2	45	1	31	5
CC052	.7	15	54	8	151	3	13	18	2	56	1	31	5
CC053	.6	16	58	13	570	3	24	19	1	71	1	34	10
CC054	.9	19	52	14	240	4	14	23	2	56	1	35	15
CC055	.9	19	49	4	210	3	12	17	2	44	2	45	25
CC056	.9	17	47	9	111	3	11	16	3	35	1	30	5
CC057	.9	14	77	18	352	3	26	18	2	57	1	30	5
CC058	.7	17	47	15	293	4	11	20	1	52	1	34	5
CC059	.6	19	74	11	346	3	17	22	1	51	1	29	5
CC060	.8	13	71	5	185	3	13	16	3	37	1	31	5

COMPANY: TOTAL ERICKSON RESOURCES — MIN-EN LABS ICP REPORT — (ACT:F31) PAGE 1 OF 1

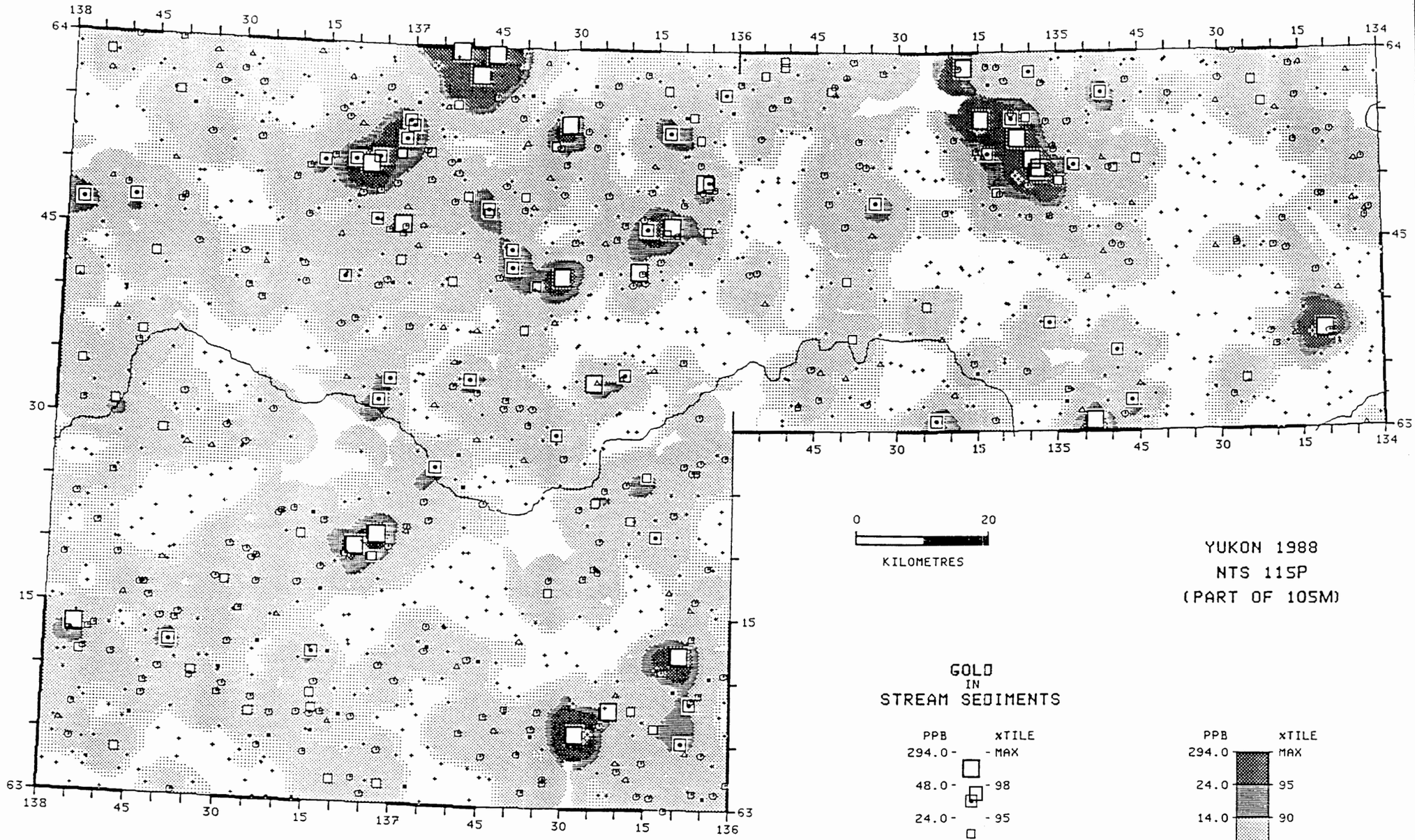
PROJECT NO: SPRAGUE P02292 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 8-1428S/P3+4

ATTENTION: A.NIKOLEJEVICH — (604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM * — DATE:SEPTEMBER 20, 1988

(VALUES IN PPM)	AG	AS	BA	CU	MN	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CC061	1.0	12	81	18	346	3	18	18	3	58	1	32	5
CC062	.9	10	69	20	301	3	21	21	2	64	1	33	5
CC063	1.0	19	62	14	281	3	22	19	2	56	2	42	10
CC064	.6	25	63	52	900	3	67	29	3	94	1	28	5
CC065	.8	28	80	22	239	3	20	26	1	73	2	37	5
CC066	.7	24	32	38	483	3	42	39	1	90	1	39	5
CC067	.8	26	75	26	411	3	36	28	2	88	2	36	5
CC068	.7	22	58	15	357	3	21	23	2	72	1	34	10
CC069	1.0	34	79	17	307	3	25	18	3	55	2	39	5
CC070	1.0	18	58	13	170	2	17	15	3	48	1	31	5
CC071	1.0	21	90	16	185	2	12	16	3	47	2	32	5
CC072	1.0	24	107	16	387	4	16	26	1	64	1	37	5
CC073	1.0	29	87	14	248	3	20	19	3	55	2	36	5
CC074	.6	99	210	10	746	3	22	26	2	64	1	35	10
CC075	.8	50	80	17	268	3	19	22	2	51	1	35	5
CC076	1.0	179	153	16	498	3	27	24	2	59	1	40	5
CC077	1.0	22	136	21	385	3	25	18	3	63	1	38	5
CC078	.8	37	70	18	368	3	20	22	1	73	1	35	5
CC079	.7	23	100	24	284	3	31	15	1	65	1	31	5
CC080	1.0	25	79	20	181	3	18	16	2	59	2	35	5
CC081	.9	28	120	31	349	4	30	23	3	72	2	40	5
CC082	.9	30	81	31	287	3	27	21	2	59	1	35	5
CC083	1.0	119	49	27	164	2	11	26	11	54	1	26	10
CC084	.8	23	65	25	247	3	22	19	3	69	2	32	5
CC085	.7	24	74	22	337	2	31	26	10	73	1	31	5
CC086	1.0	16	76	41	213	3	27	26	2	67	1	34	5
CC087	1.0	15	80	39	343	3	33	34	1	80	1	43	5
CC088	.9	34	85	5	227	4	14	26	7	45	1	34	5
CC089	.9	21	239	20	355	3	25	15	3	60	1	31	5
CC090	1.0	96	127	26	305	2	23	16	5	57	2	33	5
CC091	1.3	445	75	43	160	2	7	16	4	21	1	20	5
CC092	1.0	30	79	15	230	2	8	18	1	32	1	21	10
CC093	1.1	147	48	26	214	3	10	12	12	12	1	18	5
CC094	1.0	24	76	10	364	3	8	18	2	33	1	20	5
CC095	1.1	14	63	14	254	3	10	13	2	28	1	19	10
CC096	1.3	126	44	35	73	3	5	13	2	15	1	21	10
CC097	1.1	16	45	8	115	3	6	15	2	20	1	19	5
CC098	1.2	12	50	10	40	3	5	12	2	23	1	19	5
CC099	1.3	22	52	13	426	3	17	18	3	21	1	17	5

APPENDIX 3A

G.S.C. Open File 1650, Regional Stream Sediment Survey



YUKON 1988
NTS 115P
(PART OF 105M)

GOLD
IN
STREAM SEDIMENTS

PPB		xTILE
294.0		MAX
48.0		98
24.0		95
14.0		90
2.0		70
1.0		60
0.5		MIN

1266 SAMPLES

PPB		xTILE
294.0		MAX
24.0		95
14.0		90
2.0		70
1.0		60
0.5		MIN

1266 SAMPLES

GSC OPEN FILE 1650
CANADA - YUKON
MINERAL DEVELOPMENT
AGREEMENT (1984-1989)

Fig 3A