

5/28

87-259-16049

REPORT ON THE 1986

GEOCHEMICAL SAMPLING SURVEY

ON THE

EDGE 1 CLAIM

IN THE

CLINTON MINING DIVISION

BRITISH COLUMBIA

BY

*Owner/Operator:* HUDSON BAY EXPLORATION AND DEVELOPMENT  
COMPANY LIMITED

#900 - 837 West Hastings Street  
Vancouver, British Columbia

FILMED

16,049

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

NTS 92 - 0 - 1E  
Lat. 51°10' North  
Long. 122° 08' West

R. STROSHEIN

February 23, 1987

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INTRODUCTION:

The EDGE 1 claim was staked to cover a prominent clay altered zone and nearby veined gossanous zones. Limited sampling to date has indicated several areas of anomalous geochemical values of gold and silver. The field project was conducted during the period October 4-8, 1986. Personnel involved in the project were K.J. Taylor, Project Supervisor and R. Diment, assistant.

LOCATION AND ACCESS:

The claim units are located on the west side of the Fraser River 40 kilometers northwest of Clinton, British Columbia. The EDGE claim is on the BIG BAR CREEK map sheet No. 92-0-1 in the Clinton Mining Division. Figure 1 and 2.

Access to the property is by a ranch and logging road from Highway 97 to the ferry at Big Bar Creek. The road from the ferry along the west side of the Fraser River to Lillooet traverses the property.

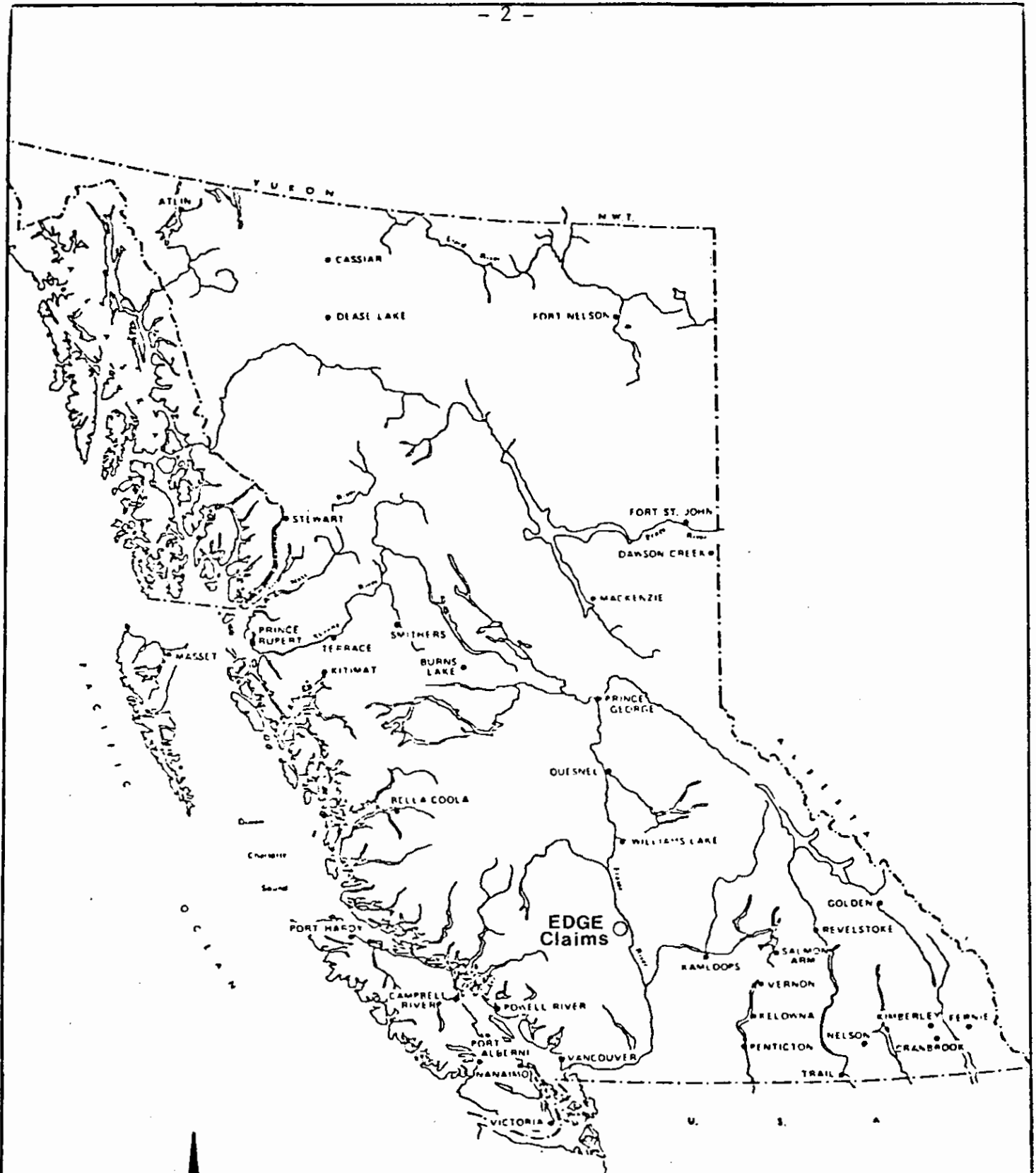
PROPERTY:

The EDGE 1 claim contains 15 units staked on June 10, 1986, by E.W. Yarrow for Hudson Bay Exploration and Development Company, Limited. The claim was recorded on June 16, 1986, Record No. 2022 at Clinton.

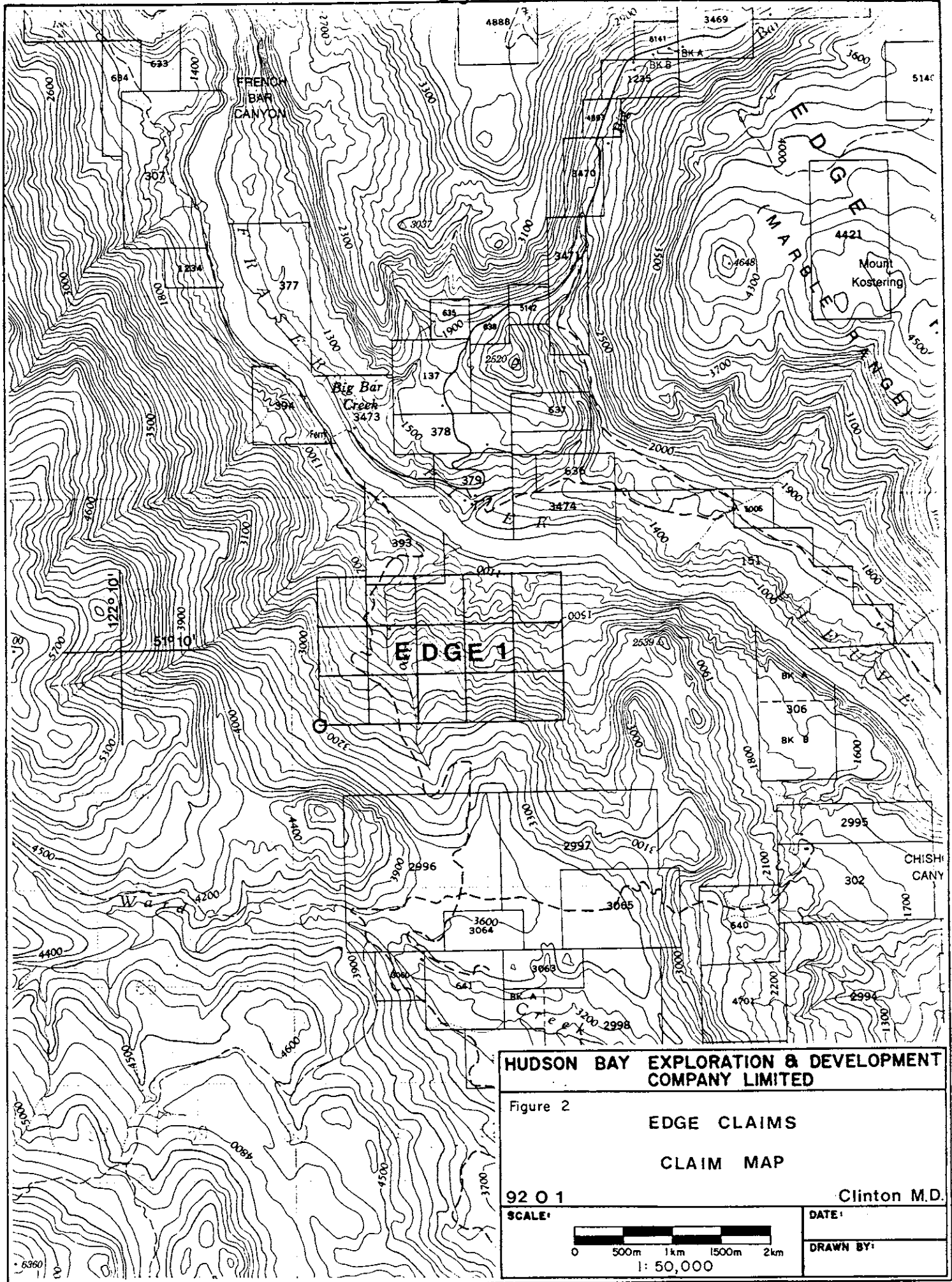
The property was previously held by Kerr Addison Mines Limited as part of the Big Bar claims. Extensive percussion drilling (39 holes for 2078 meters) was carried out on the property during 1980. The exploration target was an area of quartz-carbonate veining in Kingsvale Volcanics.

SUMMARY:

A total of 18 rock chip samples were collected and analyzed for 30 elements plus gold. Anomalous values of gold (up to 1960 ppb) and silver (up to 8.2 ppm) have been detected with narrow quartz-carbonate veins hosted by gossanous and clay altered intermediate to felsic volcanic rocks. Two areas have been located which have anomalous levels of indicator elements (As-2300 ppm and Hg-766 ppb) which have not previously been tested.




<b>HUDSON BAY EXPLORATION &amp; DEVELOPMENT COMPANY LIMITED</b> VANCOUVER OFFICE			
<b>LOCATION MAP</b>			
DRAWN BY:	DATE:	APPROVED BY:	
BRITISH COLUMBIA	0      100      200      300 KM 	PLATE NO 1	



HUDSON BAY EXPLORATION & DEVELOPMENT COMPANY LIMITED

Figure 2  
**EDGE CLAIMS**  
**CLAIM MAP**

92 O 1 Clinton M.D.

SCALE:  1: 50,000

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_

6360

#### GEOLOGICAL DESCRIPTION:

The northwest trending Edge fault (Fig.3) crosses the property and separates two ages of volcanic rocks. West of the fault the Upper Cretaceous Kingsvale volcanics are composed of dark green andesite and purple basalt flows. East of the fault grey and brown intermediate to felsic volcanics are of Tertiary age (Tipper 1978).

Previous exploration drilling has concentrated west of the fault on an area of quartz-carbonate veining cutting the Kingsvale volcanics. The volcanics east of the Edge fault have been intensely altered near the fault zone. Scattered quartz-carbonate veins have been located in a gossanous zones in the eastern area of the claim.

#### GEOCHEMICAL SURVEY:

Sampling and analytical procedures:

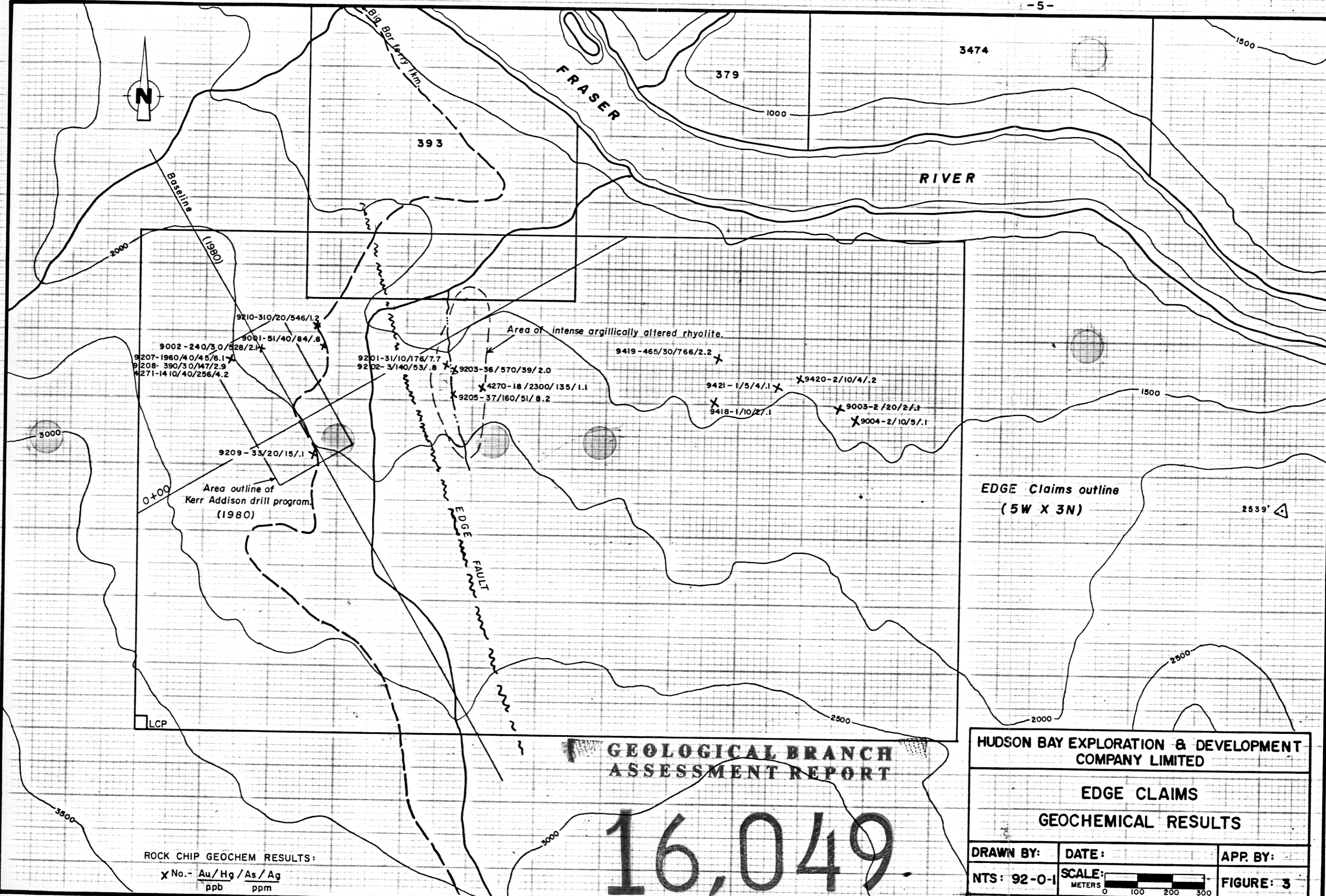
Rock chip samples were collected from outcrops of the volcanic rocks which included quartz-carbonate veins, silicification, hematization or argillization. Samples 4271 (1410 ppb Au) and 9207 (1960 ppb Au) were prominently quartz-carbonate veins.

The samples were submitted to Acme Analytical Laboratories Limited at 852 East Hastings Street, Vancouver for analysis. The samples are crushed and sieved to -100 mesh. The 29 multi-element package is by geochemical ICP analysis after 500 gm is digested with 3 ml. 3-1-2 HCl-HNO<sub>3</sub>-H<sub>2</sub>O at 95° C for one hour and is diluted to 10 ml with water. The gold analysis is by atomic absorption geochem and fire assay determination while the mercury is by flameless atomic absorption.

Geochemical Results:

The sample locations and Au/Hg/As/Ag results are plotted on figure 3. The remainder of the elements analysed are tabulated on Table I in Appendix 2. The number of samples is too small for statistical analysis but values of greater than 200 ppb Au and 5 ppm Ag are considered as potentially anomalous. The arsenic and mercury values correlate moderately with the precious metal values and therefore may prove useful as indicator elements. The other elements do not appear to exhibit correlation to the precious metal values.





ROCK CHIP GEOCHEM RESULTS:  
 X No. - Au/Hg / As / Ag  
           ppb   ppm

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**16,049**

**HUDSON BAY EXPLORATION & DEVELOPMENT  
 COMPANY LIMITED**

**EDGE CLAIMS  
 GEOCHEMICAL RESULTS**

<b>DRAWN BY:</b>	<b>DATE:</b>	<b>APP. BY:</b>
NTS: 92-0-1	SCALE: METERS 0 100 200 300	<b>FIGURE: 3</b>

CONCLUSIONS AND RECOMMENDATIONS:

Potentially economic gold and silver values have been obtained in rock samples on the EDGE claim. The precious metal values correlate to quartz-carbonate veining in altered volcanic rocks. The alteration includes argillization, silicification and hematization.

The gold/silver values correlate to anomalous levels of arsenic and mercury which may prove useful as indicator elements. There is a strong arsenic anomaly associated with an intense argillic alteration zone near the Edge fault.

Detailed and systematic sampling of outcrops and establishment of a soil sampling grid is recommended for the property. These surveys are required to assess the economic potential of the EDGE 1 claim.

REFERENCES:

TIPPER, H. W. - Taseko Lakes (92 0) Map-Area  
G. S. C. Open file 534

NEELANDS, J. T. - Report on the Percussion Drilling of the Big Bar  
Property (92-0-1).  
Assessment Report No. 8142



APPENDIX I

SUMMARY OF EXPENDITURES

APPENDIX 1 - STATEMENT of EXPENDITURES

EDGE 1 CLAIM

WAGES

K. Taylor - Project Geologist 5 days @ \$150/day	750	
R. Diment - Geological Assistant 5 days @ \$100/day	500	
R. Stroshein - Report Preparation 2 days @ \$175/day	<u>350</u>	\$1600

TRANSPORTATION

Truck Rental (Redhawk Rentals) 5 days @ \$ 35/day	175	
Gasoline + Oil	<u>100</u>	275

ROOM & BOARD

10 man days @ \$33/man day		333
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ANALYTICAL COSTS

18 Rx. Samples @ \$11.75/samp		211.50
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REPORT COMPILATION

Drafting - 1 day	100	
Typing - 1 day	<u>80</u>	
		<u>180</u>

TOTAL COST OF PROGRAM		<u>\$2599.50</u>
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## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.D.AL.NA.K.V.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: OCT 20 1986 DATE REPORT MAILED: *Oct 27/86* ASSAYER: *N.C. J.J.S.* DEAN TOYE. CERTIFIED B.C. ASSAYER.

HUDSON BAY EXPLORATION PROJECT-7353 FILE # B6-3294

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	N	Au	Hg
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
4270	6	32	49	72	1.1	7	14	497	5.80	135	5	ND	1	36	1	19	2	50	1.18	.078	13	3	.25	37	.01	7	1.17	.01	.12	1	18	2300
4271	14	20	10	32	4.2	9	4	74	1.43	256	5	ND	1	21	1	2	2	11	.17	.034	5	7	.31	29	.01	4	.63	.01	.18	1	1410	40
9201	38	14	60	8	7.7	3	3	36	3.26	176	5	ND	2	345	1	2	2	5	.09	.102	23	4	.04	83	.01	3	.27	.15	.44	1	31	10
9202	8	35	48	14	.8	3	3	41	3.00	53	5	ND	1	256	1	2	2	6	.06	.037	21	6	.04	68	.01	4	.31	.13	.42	1	3	140
9203	7	16	9	16	2.0	2	1	18	.66	39	5	ND	1	8	1	2	2	1	.00	.005	8	3	.01	6	.01	2	.20	.01	.14	1	36	570
9205	21	10	17	9	8.2	3	2	34	1.31	51	5	ND	1	16	1	9	2	2	.12	.005	10	2	.02	25	.01	2	.17	.01	.18	1	37	160
9207	7	4	26	2	6.1	2	1	28	.43	45	5	ND	1	7	1	2	2	3	.06	.008	2	3	.02	12	.01	2	.15	.01	.09	1	1960	40
9208	45	20	11	24	2.9	12	5	113	1.41	147	5	ND	1	35	1	2	2	11	.42	.030	4	4	.18	18	.02	3	.43	.01	.18	1	390	30
9209	1	15	2	32	.1	29	7	1362	2.14	15	5	ND	3	172	1	2	2	28	17.70	.056	11	31	1.04	9	.04	2	1.17	.01	.07	1	33	20
9210	11	16	10	21	1.2	13	5	593	1.63	546	5	ND	2	106	1	4	2	13	9.59	.041	7	9	.26	19	.01	5	.56	.02	.11	1	310	20
9418	1	19	6	50	.1	8	5	332	2.04	2	5	ND	2	26	1	2	2	38	.47	.05	9	5	.19	72	.05	2	.47	.10	.10	1	1	10
9419	12	9	7	7	2.2	7	2	99	1.78	766	5	ND	1	22	1	5	2	8	.32	.02	2	3	.06	9	.01	2	.17	.01	.05	1	465	34
9420	1	17	2	46	.2	6	4	61	1.29	4	5	ND	5	22	1	2	2	17	.24	.02	11	5	.07	39	.01	3	.40	.06	.03	1	2	18
9421	1	17	3	35	.1	5	4	206	1.32	4	5	ND	6	20	1	2	3	18	1.01	.03	12	5	.06	34	.02	2	.42	.04	.04	1	1	5
9001	12	13	2	42	.4	34	17	1239	4.16	84	5	ND	2	117	1	2	2	41	8.26	.07	5	16	1.46	18	.01	3	2.05	.02	.07	1	51	40
9002	24	13	13	61	2.1	36	15	469	6.54	528	5	ND	1	81	1	2	2	39	1.32	.10	18	22	1.70	22	.02	4	1.90	.06	.14	1	240	30
9003	2	27	3	32	.1	8	5	101	1.64	2	5	ND	5	21	1	2	2	23	.23	.01	10	7	.10	43	.03	2	.46	.04	.04	1	2	20
9004	1	18	8	35	.1	7	4	55	1.25	5	5	ND	5	21	1	2	3	17	.28	.03	10	5	.06	53	.01	4	.39	.06	.04	1	2	16

APPENDIX 3

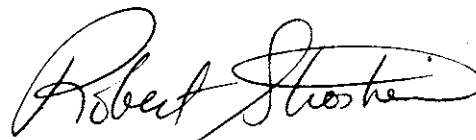
AUTHOR'S QUALIFICATIONS

I, R. W. Stroshein of the City of Whitehorse, in the Yukon Territory do hereby certify:

That I am a Geologist with Hudson Bay Exploration and Development Company, Limited of #900 - 837 West Hastings St., Vancouver, British Columbia, V6C 1B6.

I further certify:

1. I am a graduate Geological Engineer from the University of Saskatchewan (1973) at Saskatoon, Saskatchewan. I hold a B. Sc. degree in Geological Engineering.
2. I have been practising my profession with Hudson Bay Exploration and Development since graduation these past thirteen years.

A handwritten signature in cursive script that reads "Robert Stroshein". The signature is written in dark ink and is positioned to the right of the main text block.

February 25, 1987.



### CERTIFICATE OF QUALIFICATIONS

I, Kenneth J. Taylor, of Surrey, British Columbia do hereby certify that,

1. I am a graduate of the University of British Columbia, B.Sc. Geology, 1973.
2. I have practised my profession as an exploration geologist continuously since 1973.