84-#778-12523

GEOLOGICAL REPORT ON THE BEACON GROUP CASSIAR DISTRICT LIARD MINING DIVISION, BRITISH COLUMBIA

Hall, otto, Bear, Kitt

Beacon Group

104P/4E,

104P/5E, 104P/3W

Geological Report

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OWNER/OPERATOR: Erickson Gold Mining Corp.

LOCATED:

59[°] 15' N 129[°] 35' W NTS Map 104P4/E, 104P5/E, 104P3/W

BY:

M. Ball, M.Sc., under the supervision of R. Somerville, P. Eng.

GEOLOGICAL BRANCH ASSESSMENT REPORT

GEOLOGICAL REPORT ON THE BEACON GROUP

CASSIAR DISTRICT LIARD MINING DIVISION

OWNER:

BY:

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Erickson Gold Mining Corp.

WORK	DONE	ON:	Hall	1	(20	units)
			Otto	1	(20	units)
			Kitt	1	(20	units)
			Bear	4	(20	units)
			Bear	5	(20	units)

WORK PERFORMED: July 1 - July 26, 1984

LOCATED: NTS 104P3/W 104P4/E 104P5/E

> M. Ball, M.Sc., under the supervision of R. Somerville, P. Eng.

DATE: July 31, 1984

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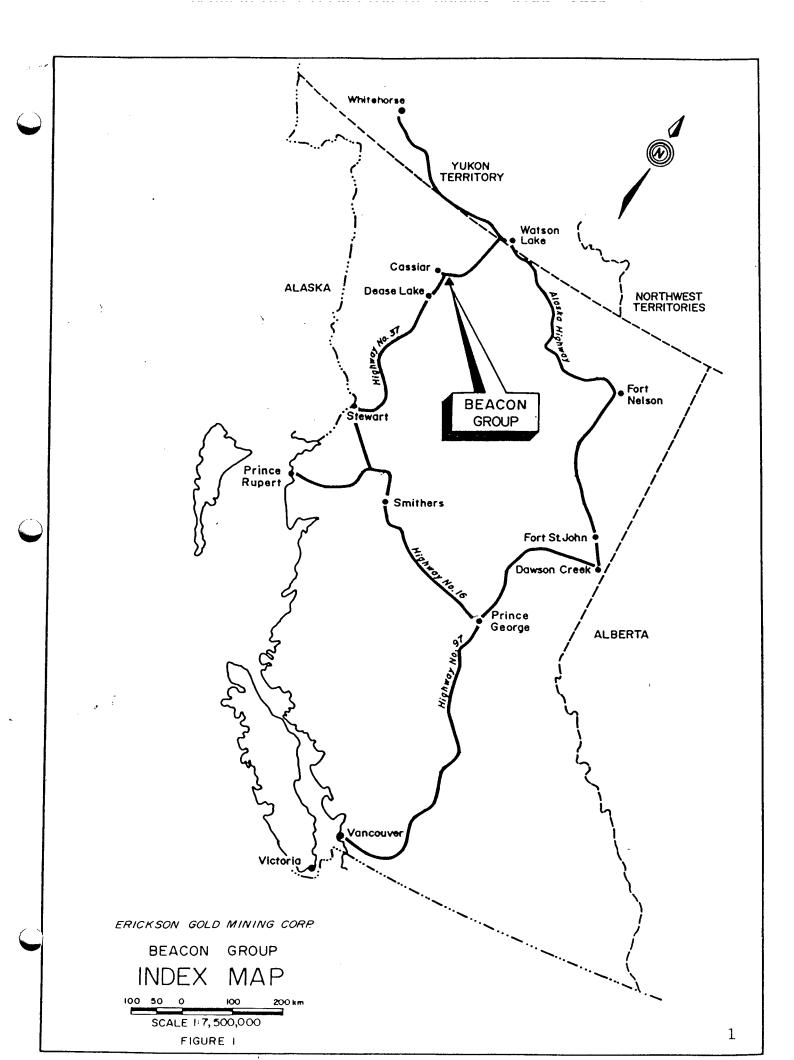
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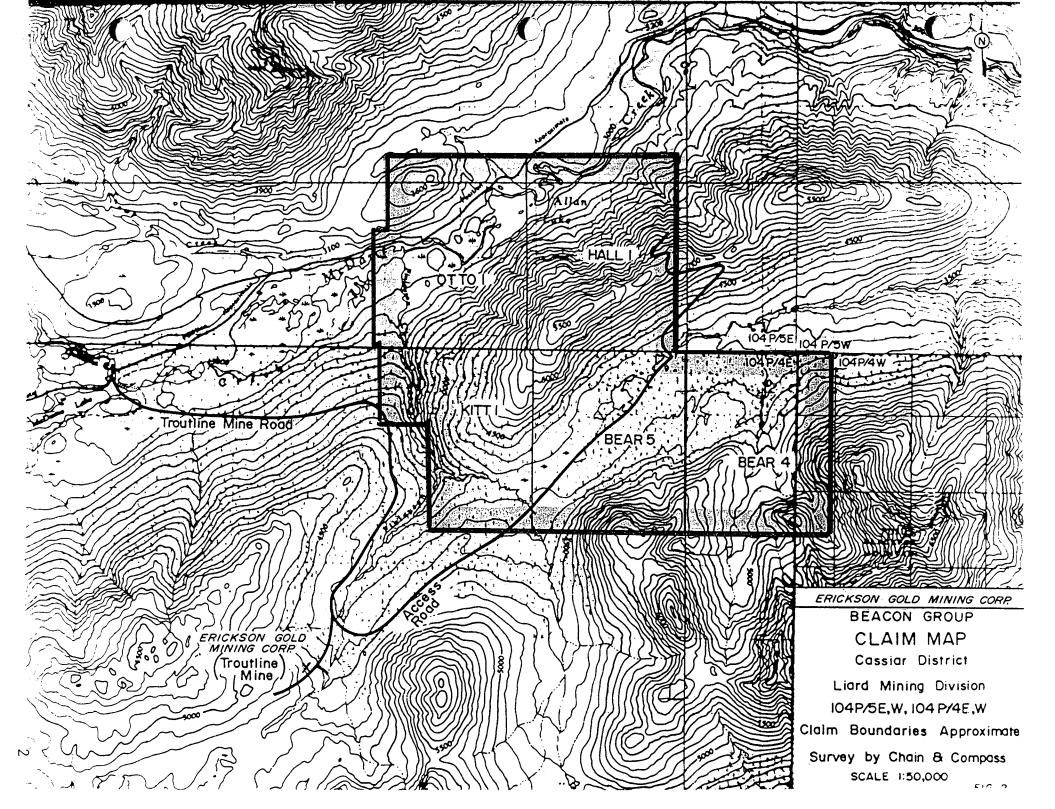
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Map 5	Geology and Chip Sample Locations, Scale 1:5,000, Sheet 34	in back pocket





CLAIM RECORD BEACON GROUP

<u>C</u>	laim Name	Units	Record No.	Record Date	Owner	FMC#
	Hall 1	20	1214	Mar. 3/1980	Erickson Gold Mining Corp.	264216
	Otto 1	20	1216	Mar. 3/1980	**	
r	Kitt 1	20	1217	Mar. 26/1980	**	**
e ,	Bear 4	20	2899	Aug. 8/1983	**	
	Bear 5	20	2900	Aug. 8/1983	**	**

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TERTIARY AND (?) EARLIER

Conglomerate

[11] Kechika, Sandpile, Atan loosely cemented.

AGE UNKNOWN - INTRUSIVES

ykes		
	Diabase	
106	Andesite -	- dacit

10c Aplite

Quartz Veins

9 Often containing sulphides (tetrahedrite arsenopyrite), graphite and sometimes visible gold.

UPPER CRETACEOUS

8 Cassiar Stock quartz monzonite porphyry.

AGE UNKNOWN

Listwanite (altered basic to ultrabasic rocks, may contain veinlets of quartz, dolomite, brucite and talc).

7.	Serpentine, chlorite, carbonate, with minor	talc.
76	Talc, carbonate, minor chlorite.	

7c Quartz, mariposite, carbonate and minor talc.

6 Diorite; volcanic plug ? Sill ?; locally fine-grained feldspar porphyry.

MISSISSIPPIAN TO ? PERMIAN

SYLVESTER GROUP

Interbedded Sediments - 5D SDa Greywacke 5Db Siltstone SDC Sandstone SDd Argillite 5De Limestone (continuous pods)

50f Chert

Interbedded Volcanics - SC

SCa Decite to andesite flows, with or without pillows, occassional local phenocrysts of feldspar or pyroxene-

5Cb Decite to andesite tuff breccia and/or flow breccia, with local phenocrysts of feldspar or pyroxene.

500	Rhyolite,	sills	and/or	dykes.	
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SCd Argillaceous tuff and breccia.

SCe Cherty Nff

58 Chert, tuff chert, includes some argillite, in northeast well layered chert - phyllite, tuff chert, ribboned chert and argillite.

[5A] Argillite, siltstone, chert, quartzite limestone pebble conglomerate, tuff includes numerous diabase and andesite sills.

MIDDLE AND UPPER DEVONIAN

HEDAHE GROUP

[4] Dolomite (black) and limestone (grey) - numerous veinlets and vugs of dolomite, occassional laminations and nodules of chert.

SANDPILE GROUP

[3a] Dolomite and dolomitic sandstone - dark grey to light grey, commonly Laminated.

CAMBRIAN AND ORDOVICIAN

KECHIKA GROUP

- 2c Argillite, shale, slate black to grey-black; mostly argillite with a pervasive mild slaty cleavage, some selections of shale and slate; cherty and calcareous sections throughout, laminated to bedded, pyrite occurs as fine disseminations up to 1% and as fine streaks.
- [2b] Phyllite black, friable, carbonaceous, with minor pyrite. . •
- 2a Argillaceous limestone grey-black, massive, with argillite and shale fragments

CAMBRIAN

LOWER CAMBRIAN

Atan Group

If Limestone - blue-grey to dark grey, laminated to well-bedded to massive, with flaggy patches and minor fragmental or breccia sections. 1e Recrystallized limestone (marble) - bluff, white, massive and as stringers and patches in SDe, large rhombohedric crystals. d 'Dolomite - yellow, buff, brown, rose, crystalline, massive with some friable sections, minor pyritohedrons in the crystalline portions. 1c Quartzite - marcon, green, brown, and tan, well bedded with cross bedded sections, pyrite and lesser pyrrhotite as disseminations and stringers. 1b Hornfelsic quartzite - maroon, green, buff and brown; pure quartzite beds are crystalline, less pure beds are schistose and contain andlusite patches; chlorite clots occur in the chlorite-rich green beds; more abundant pyrite and pyrrhotite. 1a Shale and slate - black, grey and buff, laminated, pyritic, and carbonaceous, with some calcerous interbeds.

ALTERATION SYMBOLS

6	Graphite	Ch	Chlorite
K	Clay (Kaolinite, montmorillonite?)	EP	Epidote
	Mariposite - Fuchsite		Calcite
[1]	Silicification	Sk	Skarn: garnet diopside ar
	Carbonate: dolomite, siderite		garnet-actinolite - minor
[62]	Crockle Breccia:fracture texture		sheelite mineralization.
57 1001 5			

- Geological boundary (inferred, approximate) Quartz vein (inclined, vertical, dip unknown) * * دنتة تتات Zone of alteration XXX Float

	Ch
illonite?)	EP
	<u> </u>

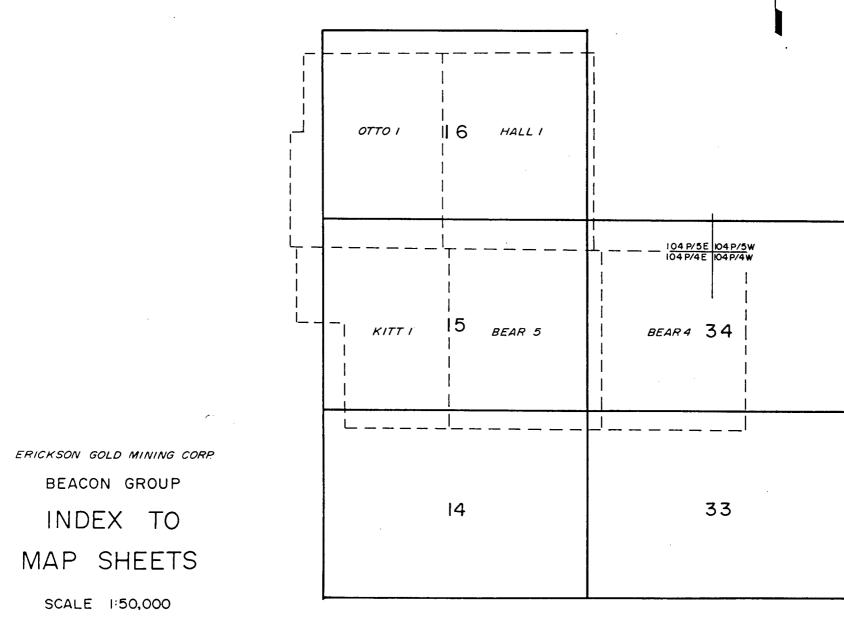
FIGURE 3

BEACON GROUP GEOLOGICAL LEGEND

ERICKSON GOLD MINING CORP.

and

FIGURE 4



1.0 Introduction

This report describes the results of reconnaissance geological mapping conducted on the Beacon claim group. Maps showing the property location, claims, geologic mapping and rock chip sample locations are included.

2.0 Location and Access

The property is located in northern British Columbia, MIT km east of the town of Cassiar, mainly south of Highway No. 37, and covers Allan Lake on McDame Creek. The geographic coordinates are 59° 15' N, 129° 35' W (see Fig. 1 and Fig. 2).

Access to the claims is by four wheel drive truck via the Troutline Mine road, which departs southeast from Highway No. 37 at the east end of McDame Lake, and then east across the headwaters of Finlayson Creek along a branch off the Troutline road.

Access to the northern portion of the claim group is by boat across McDame Creek or Allan Lake.

3.0 History

Gold was initially discovered in placer deposits on McDame Creek in 1874. Since then, considerable prospecting and development has been conducted on numerous quartz veins which occur in the area.

The Hall 1, Otto 1 and Kitt 1 claims were located in 1980 and acquired by Erickson Gold Mining Corp. in 1983. The Bear 4 and Bear 5 claims were staked by Erickson Gold Mining Corp. in 1983. There is no evidence of work done on these claims prior to 1983 when an access road was constructed by Erickson Gold Mining Corp.

The Beacon claim group lies immediately to the east of the Troutline gold mine, which was operated by Plaza Mining Corp. before being acquired by Erickson Gold Mining Corp. in 1983. Troutline ore was taken from the Vollaug vein on Table Mountain.

4.0 Summary of Work

Between July 1 and July 26, 1984 an area of approximately 25 square kilometers comprising the Beacon claim group was traversed. The geology of rock outcrops was mapped at 1:5,000 scale and exposed quartz veins were chip sampled and assayed (see Maps 1-5).

5.0 Purpose

The purpose of the 1984 exploration program was to:

- Locate and sample potential gold and silver bearing quartz veins, and
- Outline the lithologies present and nature of the rusty weathering outcrops which occur on the claims.

6.0 Geology

The Beacon claim group is underlain by metasediments, metavolcanics, diorite and serpentinite belonging to the Lower Mississippian - Upper Pennsylvanian age Sylvester Group. Within the claim boundaries the metasediments consist of green to black and locally maroon coloured ribbon-bedded chert, black graphitic argillite, brown to grey locally calcareous siltstone, and minor medium to coarse-grained sandstone. The metavolcanics are medium green coloured, mainly aphanitic but locally porphyritic, and massive to banded in texture. Diorite is dark green and

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fine to medium grained. The serpentinite is dark green and is locally altered to a rusty weathering, foliated talc-carbonate rich rock.

Locally, the metavolcanics and diorite host quartz and quartz-carbonate veins up to 0.30 meters thick. Within diorite, the veins do not contain any visible mineralization, are not associated with any significant alteration of the host rock and are of limited strike length (< 4.0 meters). Veins hosted by metavolcanics also appear barren and of limited strike length but are commonly accompanied by rusty-weathering carbonate alteration of the wall rock.

Quartz veins up to 2.5 meters thick are exposed locally within rusty weathering chert. These veins grade from massive, granular white quartz in the vein center to vein breccia at the vein margin. This vein breccia consists of 1-4 centimeter, angular clasts of chert in a white to clear quartz matrix.

7.0 Sample Results

Quartz veins encountered on traverses were chip sampled and $\frac{1}{2}$ assay-ton subsamples were assayed by Fine Assay method at the Erickson Gold Mining Corp. mine assay lab. Where quartz veins were associated with minor alteration of the wall rock, this material was sampled and assayed separately. Sample locations and results are shown on Maps 1-5. Assay results are also listed in Appendix A. None of the veins sampled carried significant gold or silver mineralization.

- A/ -

8.0 Conclusions

No potentially economic gold or silver-bearing quartz veins were located on the Beacon claim group. The carbonatized volcanics along Finlayson Creek and southwest of Allan Lake host minor quartz veins and may be related to hydrothermal alteration associated with the mineralization encountered in the Troutline mine. For this reason, further exploration is warranted and should be focused on the metavolcanics on the Kitt 1 and Otto 1 claims.

9.0 Statement of Costs

July 1, 3, 4, 7, 10, 12, 13, 23-26;

2 geologists mapping 1 geologist mapping	2 days @ \$190/man/day 9 days @ \$190/man/day	\$ 760 1,710
l assistant	9 days @ \$140/man/day	1,260
l truck	11 days @ \$ 50/day	550
l canoe	2 days @ \$ 40/day	80
40 chip samples, fine	assayed @ \$ 20/sample	800

August 1,2;

l geologist, 2 days report writing @ \$190/day	380
2 days drafting @ \$120/day	240
field supplies and report materials	200
typing	200 \$6,180

10.0 Statement of Qualifications

I, Mathew Ball, of 1217 East 4th Street, North Vancouver, B.C., do hereby certify that:

1) I hold an M.Sc. degree in Mineral Exploration obtained at Queen's University at Kingston, Ontario and am a member of the Canadian Institute of Mining and Metallurgy. Ι have practiced my profession for four (4) years.

2)

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I am author of this report, which is based upon work conducted under the supervision of R. Somerville, P. Eng., during the 1984 field season on the Beacon claim group of Erickson Gold Mining Corp. near Cassiar, B.C.

all M. Ball

M.S.C

APPENDIX A

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Chip Sample Assay Results



MINE FIRE ASSAY METHOD FOR AU AND AG

The samples are crushed, puliverized and split to $\frac{1}{2}$ assay ton (14.583 gram) subsamples. One subsample is assayed for regional samples and two subsamples are assayed for diamond drill core by the following procedures.

The subsample is placed in a crucible along with 1 scoop of standard flux, $\frac{1}{2}$ tsp of flour, 1 inquartz, and 1 tsp of borax cover.

It is then heated for 45 minutes at 1060° C to fuse, poured off and left to cool before the glass is hammered off the button (bead).

The cupels are heated for 10 minutes in the furnace at 970° C until white before the lead bead is put in the cupels for 30 minutes.

After cupelation the beads are hammered flat and weighed in milligrams. If over 2.79 mg, inquartz is added in the appropriate amounts and recupelled.

The bead is placed in diluted (16%) nitric acid for 30 minutes. The acid is then removed and the bead is rinsed two times with de-ionized water before annealling to remove tarnish and weighing in milligrams.

All assays are then given in ounces per ton.

Erickson Gold Mining Corp. Box 370, Cassiar, B.C. VOC 1E0 Telephone (604) 778-7454

						\	
\mathbf{C}	DAY SAMPLED		ERICKSON GOLD MINING CORP.			DAY ASSAYED	
	SAMPLE NO.	LOCATION	CARS	Au oz/ton	Ag oz/ton	TAKEN BY	
	P 3186	Beacon 2	.15 m	.034	.02	/	
	P 3187	Beacon Stn 3	1.0 m	TR	.02	/	
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·	DATISAMPLED	ERICKSON GOLD	MINING	SOORP.	DAY AS	SAYED
			REPORT , 10/9/84			
	SAMPLE NO.	LOCATION			Ag oz/ton	TAKEN
H	P3190	BEACON STN 771	I.OM	.02.6	. 10	5
	P3191	BLADON STN 771	1.5m	TR	. / 0	
	P3192	BEACON STN 774	2Dem	TR	,08	
	P3193	BEADON EIN 776	0.5M	TR	.06	
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	7 20					
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DATOSAMPLED	ERICKSON	GOLDI	VINING	SOORP.	DAY AS	SAYED
Geolos	DANKY	H.		10	16/7/8	
SAMPLE NO.	LOCATION		CARS	Au oz/ton	Ag oz∕ton	TA KEN BY
P 3195	beacon 713	<u>, </u>	float grab	TR	. 06	4
P3196	Beaconzi	38	float grab	TR	.06	
P 3197	Beaconzi	39	•30 ^m	TR	. 06	~
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	DAY SAMPLED	ERICKSON GOLD	MINING	CORP	DAY AS	SAYED
	VAT SAMPLED	DAILY ASSAY			-7 7 84	
	GFOLOG SAMPLE NO:	LOCATION	CARS	Au oz/ton	Ag oz/ton	TA KE BY
4/-	৽৽৽৽৽	HALL CLAIM STNIO NUIEN	15cm qu. vien	TR	. ०२	<
	P 3356	HALL CLAIM STN 10 S.VIEN	15CM GU-Vien	1048	.12	_
	P 3351	HALL CLAIM STN 10 15 cm chip sample of H.W	15cm	·022	. 04	/
	P3358	HALL CLAIM STN 10 FW CHIP Sam of FW Delow both viens	15cm	1026	. 18	~
	P3359	HALL CLAIM STN 16 Chip Scomple	JOCM qu.vien	. ८२ ४	.10	
	P3360	MALL CLAIM STN 16 10cm into FW	iocm	.036	·08	6
	P 336J	HALL CLAIM STN 16 10 cm into HW	IDCM	.023	.16	
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	DAT SAMPLED	ERICKSON GOLD		-	DAY AS	
	GEOLOGY			-019[84	
	SAMPLE NO.	LOCATION	CARS	Au oz/ton	Ag oz/ton	TA KEN BY
7/	P3362	HALL CLAIM YANG SHOWING OTZVI	O.6M WIDE	TR	. 10	3
	P 3363	HANG SHOWING QTZVI	1 2m	TR	.06	
	P3364	HALL CLAIN OTZ YANG SHOLDING UTZ STN 35 UTEN	1.0M grab	TR	.12	3.
	P 3365	HALL CLAIM QUT. VANG SHOWING VILL STN 35	N O.9M Grab	TR	. 10	
~	. Let at					
		•				
		4				
	en en provincia de la composición de la Composición de la composición de la comp	•				2
		•				
					685.	
		-				
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DAY SAMPLED				DAY AS	
SAMPLE NO.	LOCATION	CARS	Au oz/ton	Ag oz/ton	TA KEN BY
P3366	SAN ROM NW CRK JOCM	gv grab	TR	. ৩४	
P3361	SIN 13 POST WALL	1. On Grad	TR	୦୪	
P2258	STN 14 ON NWERK West Werk	i Cin (ing)	TR	.02	
P3269	STRI 18 ON NUD CRAK (SAM PALI)	1.0n' Grad	TR	, %	
			Ŕ		
				•	
19					
		<u> </u>	+		-

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\bigcirc	DAY SAMPLED	ERICKSON GOLD	MINING	CORP.	DAY AS	SAYED
	Geology	DAILY ASSAN	REPO	RT	July 26/84.	
	SAMPLE NO.	LOCATION	CARS	Au oz/ton	Ag oz/ton	TA KEN BY
25	P3373	Stn7 In Creek	7 c M	TR	.02	/
	P3374	Stn II Chip Sample	.6	TR	.02	/
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\mathbf{U}						
					1	

\bigcirc	DAY SAMPLED	ERICKSON GOLD	MINING		DAY AS	
	Geology	DAILY ASSAY	REPO	RT	July 27	184
	SAMPLE NO.	LOCATION	CARS	Au oz∕ton	Ag oz/ton	ΤΑ ΚΕ ΒΥ
26/7	Р3375	Stat QV Grab	₀4 M	TR	.10	
	P 3376	Stn8: Chipsangle	el pa	TR	,02	
	63377	stn 17 qv Chip Sample	. 61	TR	,52	
	P3378	Stn 17 Grab Sample		TR	·02.	
$\left(\right)$						
·		4 4 5				
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` •	DAY SAMPLED	ERICKSON GOLD	MINING	CORP.	DAY AS	SAYED
		DAILY ASSAN			/7/	84
	SAMPLE NO.	LOCATION	CARS		Ag oz/ton	TA KEI BY
4/07	05518	Majoral JIM'S 17-13-2	float grab	TR	.04	
	D5519	Major 12 Tarite 7 10-2	float grab	TR	:08	
	3					
	1					
		:				
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	DAYSAMPLED	ERICKSON GOLD	MENENG	CORP	DAY AS	SAYED	
4		DAILY ASSAY		RT	12/7/84		
-	SAMPLE NO.	GEODON - JIM STE LOCATION	CARS	Au oz/ton	Ag oz/ton	TAKEN By	
	08831	FIDNA FISH.R.	Float Grah	TR	. LQ	- <u>-</u>	
	088-12	FIONA FISHER	Hoat grab	TR	.08		
	୦୍ରଞ୍ଜ 3	FIDNIA FICHER CAGT 8	float grab	TR	.08	:	
	08824	FIDNA FIGHLA	ficat grab	TR	. 08		
	1)6651	JS'Z QETR	10em	TR	. 08		
4		Kan T					
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		L.					
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Bag 1500 Cassiar, BC VOC 1E0

September 05,1984

Chief Gold Commissioner Victoria, BC

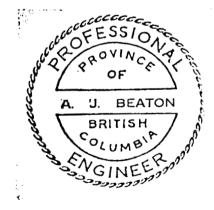
Sir / Madam;

The Assay Lab at Erickson Gold Mining Corp. is under my direct supervision, and has been for the last 5 (five) years. Regular check assays are done by an outside source.

Yours truly,

. Bentu

A.J. Beaton Mine Manager



Erickson Gold Mining Corp. Box 370, Cassiar, B.C. V0C 1E0 Telephone (604) 778-7454

