ARIS SUMMARY SHEET

District Geologist, Smithers Off Confidential: 90.02.03
ASSESSMENT REPORT 18712 MINING DIVISION: Liard
PROPERTY: Glimmer LOCATION: LAT 56 51 00 LONG 130 40 00 UTM 09 6301714 398348 NTS 104B15E CLAIM(S): Glimmer 2 OPERATOR(S): Esso Min. Can. AUTHOR(S): Holbeck, P. REPORT YEAR: 1989, 14 Pages COMMODITIES SEARCHED FOR: Gold KEYWORDS: Paleozoic,Stikine Assemblage,Metavolcanics,Metasediments
Fault zone,Quartz,Sericite,Pyrite
DONE: Prospecting,Geochemical PROS 600.0 ha Map(s) - 1; Scale(s) - 1:10 000 ROCK 20 sample(s);ME SILT 7 sample(s);ME SOIL 21 sample(s);ME

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	SUB-RECORDER RECEIVED		ACTION:	
	MAY 2 1909			
M.R. 4 V	#\$ PROSPE ANCOUVER, B.C.	CTING AND GEOCHEMICAI PORT ON THE GLIMMER 2	SAMRDING CLAIM	i y

LIARD MINING DIVISION NTS 104B/15 LATITUDE: 56°51'N LONGITUDE: 130°40'E

OWNED AND OPERATED BY:

ESSO MINERALS CANADA 1600 - 409 GRANVILLE STREET VANCOUVER, B.C. V6C 1T2G E O L O G I C A L B R A N C H

ASSESSMENT REPORT



APRIL 27, 1989

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FIGURE 1.1	PROPERTY LOCATION MAP	2
FIGURE 2.1	SAMPLE LOCATION MAP	In pocket

1.0 INTRODUCTION

1.1 Location and Access

The Glimmer 2 claim is situated on the west side of the Forrest Kerr River in the Liard Mining Division, NTS 104B/15, approximately 107km north-northwest of Stewart, British Columbia (Figure 1.1). Geoditic coordinates for the centre of the claim are 56°51'N and 130°40'E.

Access to the property is by helicopter which may be chartered from a permanent base in Stewart or from seasonal bases located at the Bob Quinn airstrip on Highway 37, 30 km to the northeast; Snippaker airstrip, 30 km to the south; or the recently constructed Bronson airstrip, 42 km to the southwest of the property.

The Bronson airstrip was served, during the 1988 field season, by Central Mountain Air Ltd., who operated scheduled fixed wing flights from Smithers, B.C.

1.2 Physiography

Situated near the eastern edge of the Coast Mountains, the property and surrounding area are rugged. The Forrest Kerr River flows southerly in a deeply incised valley which is "V"-shaped in contrast to most valleys in the area which have the glacially derived "U"-shaped valleys.

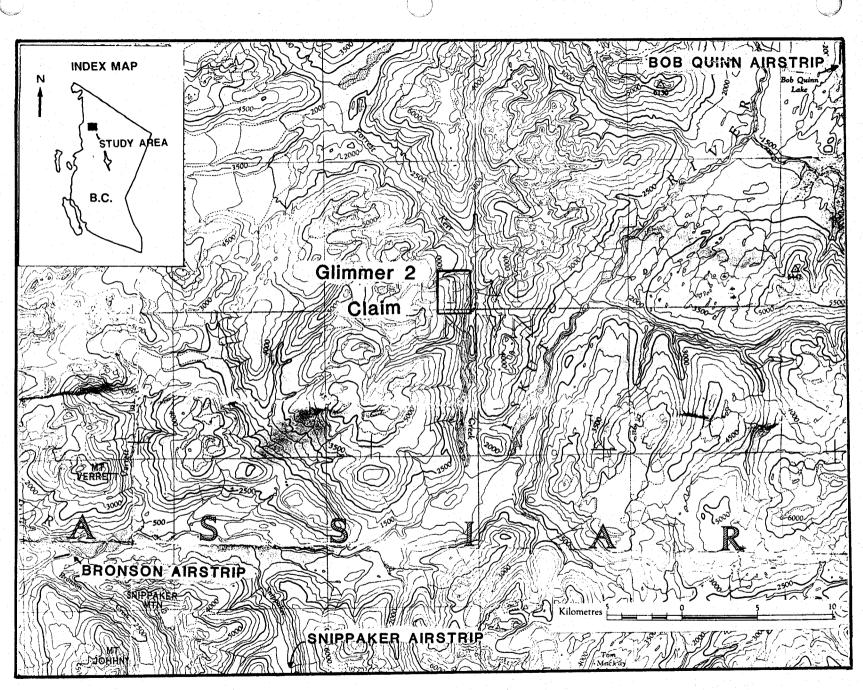


Figure 1.1 Property Location Map.

Elevations on the property range from a low of 320m along the Forrest Kerr River to a high of 1,400m along the western edge of the claim. Treeline is at approximately 1,100m.

Thick forests of cedar, hemlock and spruce cover the steep, commonly precipitous, slopes below treeline.

1.3 Claims and History

The property consists of a single twenty unit claim, Glimmer 2 (tag number 84634) which has a recording date of February $\frac{5}{7}$, 1988. The claim was staked on the basis of a stream sediment geochemical anomaly and evidence of alteration along a north-south trending structure. There is no record of staking in the immediate area prior to 1987.

1.4 Current Work

Α brief work program of prospecting and geochemical sampling was carried out between September 26th & 28th, 1988. Work was performed by three geologists and consisted of prospecting and rock-chip sampling along the altered and mineralized fault zone that cuts across the centre of the property, collecting soil samples from the down slope side of the mineralized structure and for evidence prospecting of mineralization elsewhere on the property. A total of 48 rock, soil and stream sediment samples were collected and analyzed.

2.0 GEOLOGY AND MINERALIZATION

2.1 Property Geology

The property area is underlain by meta-volcanic and sedimentary rocks of the Paleozoic Stikine Assemblage (Monger, 1977). Lithologies include mafic volcanic rocks (chlorite schists), minor greywackes and pyroclastic rocks and interbedded argillites, siltstones and cherts. The metamorphosed volcanic and sedimentary rocks are in fault contact with foliated granodiorite in the northwest corner of the property. Foliation is well-developed within the stratified rocks and generally strikes north to northwest. Generally, foliation dips steeply to the west but is variable suggesting an additional phase of folding or fault rotation.

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Α prominent feature of the property is а north-south trending lineament that transects the property just below treeline (Figure 2.1). Rocks within this linear feature are intensely silicified and pyritized. Rocks bounding the silicification are extensively sheared and altered to muscovite, quartz and kaolinite. The lineament is interpreted to be a fault zone that is possibly related to the structure which localized the Forrest Kerr River. The alteration associated with the fault zone can be up to 100m in width. Areas of silicification are irregular and usually only 2-10m in width. Pyrite is disseminated throughout the alteration zone but locally can be semi-massive.

2.2 Geochemical Sampling

Seven stream sediment samples, twenty-one soil samples and twenty rock-chip samples were collected from the property. Sample location sites are shown on Figure 2.1 and analytical data is contained in Appendix III. All analyses were performed by Acme Analytical Laboratories Ltd. of Vancouver.

2.3 Discussion of Results

Only a few of the samples were enriched in precious metals and none of these was significant. The best gold response of 235 ppb Au was from a soil sample collected from a small shear zone in the northwest corner of the property. Only three samples (GLIM8-R1, S88-PT0+25 and 5+00) from the main fault zone had analyses of greater than 50 ppb Au, indicating minimal gold enrichment.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The main exploration target on the Glimmer 2 claim is an altered and pyritized shear zone that transects the property. Rocks within the shear zone are exposed in three areas where the zone is cut by east-west trending streams. Rock chip sampling from these three exposures plus soil samples collected downslope from the shear indicate only minor gold enrichment. Cursory prospecting of other parts of the property did not reveal any significant mineralization. Although initial prospecting and sampling yielded poor to marginal results, the property is still of interest because of the extensive alteration - indicating significant hydrothermal activity - associated with a major shear zone.

- 6 -

A soil grid with 25m stations on 300m long east-west trending lines, spaced every 100m along the shear zone, would be an effective way to test for areas of overburden covered gold mineralization. A geophysical IP (chargeability and resistivity) survey could identify silica and/or sulphide rich areas along the structure.

APPENDIX I

STATEMENT OF EXPENSES

LABOUR 1)

4)

	P. Holbek, Geologist (2½ days @ \$253/day) P. Thiersch, Geologist (2½ days @ \$165/day) M. McPherson, Geologist (2½ days @ \$165/day)	\$	632.50 412.50 412.50
		<u>\$1</u>	<u>,457.50</u>
2)	FOOD AND ACCOMMODATION		
	Pamicon Camp - Bronson Creek (3 man days @ \$125/day) Smithers (3 man days @ \$60/day)	\$	375.00 180.00
		<u>\$</u>	555.00
3)	GEOCHEMICAL ANALYSES		
	30 Element ICP Analysis & Gold 26 Soil and stream sediment samples @ \$11.00 20 Rock samples @ \$13.25	\$	286.00 265.00
		<u>\$</u>	551.00
4)	TRANSPORTATION		
	3 Road trip fares (Smithers to Bronson) @ \$160 each Northern Mountain Helicopters - Hughes 500D 1.8 @ 645/hour including fuel	\$ 1	480.00 ,125.00
		<u>\$1</u>	,605.00
5)	REPORT PREPARATION	<u>\$</u>	300.00
	TOTAL	\$4 ==	468.50

STATEMENT OF QUALIFICATIONS

I, Peter Holbek, DO HEREBY CERTIFY THAT:

- I am a project geologist presently employed by Esso Minerals Canada, a division of Esso Resources Canada Limited, located at 1600 - 409 Granville Street, Vancouver, B.C. V6C 1T2.
- I graduated from the University of British Columbia with a B.Sc.(Hons.) in geology in 1980 and an M.Sc. in geology in 1988.
- 3) I have actively practiced my profession in North America since 1975.
- 4) The work described herein was done by me or under my direct supervision.

DATED THIS 29th DAY OF NOVEMBER, 1988 AT VANCOUVER, B.C.

Peter Holbek

APPENDIX III

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852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

Rml

PHONE (604) 253-3158 FAX (604) 253-1716 2 1989

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GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAN SANPLE IS DIGESTED WITH 3HL 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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPN. - SANPLE TYPE: P1 ROCK P2 SOIL P3 SILT AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM, SANPLE. P -20 mesh, pulverized.

DATE RECEIVED: OCT 3 1988 DATE REPORT MAILED: C. ct 7/88 ASSAYER. C. D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

ESSO MINERALS CANADA LTD. PROJECT 135 File # 88-4961 Page 1

SAMPLE#		No PPH	Cu PPM	Pb PPM	Zn PPM	Ag PPN	NÍ PPM	CO PPM	Nn PPN	Te %	AS PPH	U PPM	Au PPM	Th PPM	Sr PPM	Cđ PP n	SD PPM	Bi PPM	V PPM	Ca %	P. %	La PPM	Cr PPN	Ng %	Ba PPN	Ti %	B PPH	Al %	Na %	R Z	W PPM	Au* PPB	
PGTS-SC1		1	7227	82	286	7.0	8	378	361	15.16	1937	5	ND	1	121	2	1407	93	4	7.93	.001	4	1	2.65	5	.01	2	. 03	.01	.01	1	19	
PGT8-SC2		1	7742	176	23	2.8	. 6	68	177	16.14	830	5	ND	- 1	17	1	60	2	3	2.18	.001	2	2	1.11	- 5	.01	2	.05	.01	.01	1	113	
GLIMS-R-1		5	282	15	58	2.4	· 9	28	381	8.56	52	5	ND	1	5	1	- 10 -	2	47	.19	.051	2	5	1.94	27	.01	4	2.14	.01	.13	· 1	64	
PGM8-FK1-2		2	73	4	69	.4	14	- 6	817	3.82	12	5 -	ND	1	81	1	2	2	14	2.22	.027	2	6	1.13	110	.01	2	.92	.01	.07	1	11	
PGH8-FK1-4		1	79	2	28	.2	18	5	194	1.96	6	5	ND	1	25	1	, 2	2	- 11	.33	.025	2	5	.21	452	.01	2	.37	.01	.03	1	55	
PGN8-FK1-7		1	10	2	36	1	18	· · · · · · · · · · · · · · · · · · ·	825	2.86	Ę		ND	1	19			. ,	. 7	.50	.071	9	4	.83	191	.01	3	1.20	.01	.13	1	1	
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PGH8-FK1-11		1	47	. 0	19	1	- 14	3	942		2	5	ND	1	11	1	2	2	10	.29	.009	3	· 5.	.18	227	.01	5	.39	.01	.03	1	14	
PGN8-FK1-12		. 1	113	2	15	1	18		172		2	5	ND	1	20	· 1	2		ć	.41	.016		8	.22	103	.01	3	.24	.01	.01	.,	11	
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PGT8-FK2		- 3	28	8	43	.1	5	4	270	5.82	19	5	ND	1	6	1	. 2	2	75	. 02	.044	2	6	1.15	87	.01		1.03	.03	.09	2	6	
PGTE-FK3A		- 1	48	10	72	.2	1	4	411	6.01	29	ΞĒ.	ND	2	3	1	: 2	2	72	.02	.054	3	5	1.33	82	.01	-	1.44	.01	.12	1	8	
PGT8-FK3B		; ;	49	14	55	1	3	3			31	. 5	ND	2	6	1	2	2	83	.01	.059	3		1.13	127	.01		1.17	.02	.09	1	11	
PGT8-FK4		1	33	, q	-34	.3		14	206	7.34	23	5	ND	1	3	1	2	2	18	.04	,049	3	3	.93	13	.01		1.05	.01	.16	2	ġ	
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PGT8-PK5		2	29	5	36	.1	6	16	485	5.44	10	5	ND	1	8	1	2	2	. 11	. 39	.054	5	2	.73	27	.01	6	. 93	.01	.17	1	11	
R88-PGS-1		- 1	786	2	144	1.7	13	10	1058	3.66	- 11	5	ND	1	405	2.	23	2	13	8.68	.012	2	4	2.58	184	.01	2	.12	.01	.05	1	5	
R88-PGS-2		1	4842	122	175	2.6	2	139	270	16.36	1162	5	ND	1	23	1	1187	587	4	3.60	.001	2	1	1.35	3	.01	3	.04	.01	.01	1	100	
R88-GH-2		- 4	132	. 5	106	1	19	. 17	655	5.44	14	5	ND	- 5	36	1	11	2	45	1.07	.089	13	4	1.21	. 44	.01	3	. 49	.01	.14	- 1	8	
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R88-GH-8		1	48	2	42	.1	3	9	543	4.59	39	5	ND	2		1		2	32	.13	.051	0	. 4	1.25	48	.01	2	1.33	.01	.12	1	4	
R88-GH-12		3	53 -	10	22	.7	11	15	168	4.57	66	5	ND	1		1	3	- -	17	.12	.058	5	3	. 66	30	.01	4	.97	.01	.20	1	49	
R88-GH-13		3	14	5	6	.1	15	. 11		2.97	5	5	ND	1	15	- 1	2	2	17	.78	.038	- 2	12	.34	34	.01	3.	.16	.03	.02	1	- 9	
STD C		19	60	42	130	6.8	70	31	1008	4.17	41	19	8	37	45	18	17	21	59	.46	.095	39	57	.92	167	.05	33	1.98	.05	.14	12		
R88-GH-14		1	10	14	24	.1	9	11	98	7.12	7	5	ND	1	5	1	2	2	103	.11	.044	2	23	1.21	29	.01	2	1.31	. 02	.04	1	17	
R88-GH-15		2	9	2	11	.2	13	8	304	2.88	4	5	ND	1	15	1	2	2	31	.80	.034	2	12	.51	38	.01	4	.35	.03	.03	1	22	
STD C/AU-R		18	58	43	132	6.8	67	29		4.18	40	18	1	37	48	19	18	21	59	.48	.092	39	58	.93	178	.07	33	2.04	.06	.13	12	530	
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DB3-GH-4 D88-GH-5 D88-GH-6 RE GLIN8 R-15 D88-GH-9	1 3 4 2	77 115 21 88 97	4 15 11 34 20	29 98 42 28 41	.1 .1 .6 .1	37 19 5 4 4	44 20 5 5 14	2989 195	9.81	25 15 7 74 8	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	33 13 5 9 76	1 1 1 1	2 3 3 3 2	2 4 2 2 2	32 77 46 31 39	2.20 .22 .05 .03 .54	.068 .058 .067 .112 .063	2 10 16 7 12	23 26 18 7 9	.99 1.06 .24 .72 .64	66 223 27 80 133	.01 .02 .13 .01 .01	3 2 2	1.40 2.56 3.28 1.05 2.46	.01 .01 .01 .01 .01	.10 .07 .04 .19 .03	1 3 1 1	235 14 9 40 13	
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SAMPLE																												Al %					
GLIM8 S																																	
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GLIM8 S																															1	. 8	
GLIM8 S																															1	10	
GLIN8 S	-5 P	1	64	7	95	.1	17	16	701	4.80	37	5	ND	1	31	1	3	3	55	.42	.085	10	14	1.30	412	.02	2	1.74	.01	.11	1	40	
GLIM8 S	-6 P	2	81	. 8	83	.2	15	12	700	4.51	35	- 5	ND	1	.27	· 1	3	2	45	.29	.069	10	14	1.19	314	.02	2	1.70	.01	.11	1	15	
STD C		18	60	41	132	6.7	68	30	1017	4.32	40	18	. 7	37	48	19	- 16	19	59	. 49	.095	39	57	.95	177	.07	33	1,95	.06	.13	11		

