

HILLSIDE ENERGY CORPORATION

A Prospecting Report on the Debbie-1 Claim,
Nelson Mining Division, British Columbia

<u>Claim Name</u>	<u>Record No.</u>
Debbie-1	3282(7)

NTS Reference: 82F/6W and 5E

Longitude: 117° 30'W
Latitude: 49° 24'N

Consultant: Nevin Sadlier-Brown Goodbrand Ltd.

Prepared by: Dwayne L. Melrose, Geologist
T. L. Sadlier-Brown

Work Dates: July 5-15, August 18-24
and September 13-22, 1983

Date: April 6, 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,139

GEOLOGISTS AND ENGINEERS

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1. INTRODUCTION

1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Hillside Energy Corporation to carry out prospecting and an evaluation of the old workings on the Debbie-1 claim.

The field work was performed intermittently between July 5-15, August 18-24 and September 13-22 by T. Sadlier-Brown and B. Swintz.

1.2 Claims and Ownership

The Debbie-1 property is comprised of a 20 unit claim in the Nelson Mining Division, British Columbia (Figure 2). The claim is depicted on claim sheets 82F/6W and 5E. It is registered in the name of Hillside Energy Corporation. Record data is as follows:

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Date Recorded</u>
Debbie-1	20	3282(7)	July 4, 1983

1.3 Location and Access

The Debbie-1 claim is situated between the heads of Connor Creek and Glade Creek east of the Kootenay River (Figures 1 and 2). It is 14km northwest of Castelgar and 16km southwest of Nelson in the Kootenay region of southern B.C.

Access is via good logging roads branching from the Rover Creek and Connors Creek forestry roads to the headwaters of Connor Creek. The property can then be accessed by a foot trail.

1.4 Physiography and Vegetation

The topography of the Debbie-1 claim ranges from moderate to steep glaciated slopes. Elevations range from 915 metres to 1585 metres ASL. There is a prominent northeast trending ridge located in the middle of the property.

The area is generally heavily wooded with a variety of mature evergreens and deciduous trees. An old burn area in the northeast corner of the claim has been revegetated by very dense undergrowth.

1.5 Previous Work

During staking an old adit was discovered. The adit has a bearing of 125° and is approximately 107 metres in length. No record of this work could be found.

2. GEOLOGY

2.1 Regional Geology (Figure 4)

The following regional geology is summarized from Little (1980) by Santos (1983).

"The area between Nelson and Castlegar is underlain by early Mesozoic to Late Jurassic rock units consisting of The Rossland Formation, Hall Formation, Ymir Formation, and The Nelson Plutonic Rocks (Little).

This area lies on the eastern flank of the eugeosyncline bordering The Kootenay Arc, an arcuate belt of sedimentary, volcanic, and metamorphic rocks.

The Rossland Formation rock units are essentially greenstones made up of andesite flows some of which have undergone alteration to serpentine in proximity to intrusive rocks. Usually the volcanics are porphyritic in texture when unaltered.

The Ymir Formation has similar rock units to the Hall Formation. It consists, for the most part, of black, carbonaceous argillites, slates, and limestones.

The Hall and Ymir Formations correlate with The Milford Series in the Tillicum area of British Columbia.

The area is also underlain by a sequence of metamorphosed sedimentary rocks which was referred to by H.W. Little (GSC Map 1090W) as Unit B, which is thought to be carboniferous to Jurassic in age. This Unit consists of argillite, slates, phyllite, tuff, limestone, minor dolomite and skarn. It

- 3 -

appears to equate with The Hall and Ymir Formations both lithologically and chronologically.

The Nelson Plutonic Rocks intrude units of The Rosslund, Hall, and Ymir Formations. These intrusives grade from a very coarse porphyritic granite with large feldspar phenocrysts to equigranular granite. Often this granite is foliated and contains pegmatoid lenses following a NW-SE orientation. The Nelson Formation also grades into granodiorite to dioritic phases and at the chilled contact with the older rocks grades into andesite porphyry within a limited area. Included in this formation area lamprophyre dykes and sills in varying thicknesses."

2.2 Property Geology

The claim lies at the contact between granodiorite plutonic rocks of the Nelson batholith and a sequence of older volcanic and sedimentary rocks probably of Triassic or Jurassic age. The volcanic rocks are locally metamorphosed and may represent the Kaslo Group or the Rosslund Formation in the area. These rocks are locally cut by small but undelineated dioritic intrusive bodies one of which is located near the north boundary of the Debbie-1 claim at the head of Connor Creek.

3. FIELD OBSERVATIONS

About 750 metres west of the legal corner post on the northeast corner of the Debbie-1 claim is an adit bearing 125° and partly caved at the portal. Rock type at the portal is a medium-grained diorite with sparse disseminated pyrite. A few fragments of quartz float were observed about 200 feet east of the portal.

The dump consists mainly of a dark grey hornfelsic rock with disseminated and occasional stringers of pyrite as well as a few blebs of chalcopyrite. The dimensions of the dump are about 40 feet north-south, about 25 feet in the east-west direction and a maximum of 10 feet thick. It is reposing on a hill side which is at an inclination of about 40°.

Associated with the hornfelsic rock is a skarn occurrence of unknown extent containing bands of variable

- 4 -

widths of massive to nearly massive sulphide primarily pyrite but minor specularite, chalcopyrite, possibly bornite. Much of the pyrite displays a peculiar reddish stain which at its most intense looks like cinnabar.

Thirteen samples were collected from the dump, from outcrops around the portal and from within the adit. These are described below. Sample locations are shown in Figure 5.

<u>Sample Number</u>	<u>Description and Location</u>
DA#1	Debbie adit. Strongly disseminated sulphide (mainly pyrite) in greenstone or calc-silicate from dump. - 0.210 oz/ton Au.
DA#2	Debbie adit. Granular white quartz with sparsely disseminated pyrite. Sample obtained from near south end of sheeted zone about 43 metres from portal. - 0.003 oz/ton Au.
DA#3	Disseminated sulphide in skarn, similar to material obtained from Debbie adit dump. Samples taken from west wall of adit about 23 metres from portal. Material is from sheeted zone composed of quartz vein cutting, calc-silicate and mafic diorite. - 0.112 oz/ton Au.
DA#4	Mineralized quartz vein with manganese stain from Debbie adit. Sample may contain fragments of mafic diorite. Collected 10 metres from portal. - 0.008 oz/ton Au.
DA#5	Mineralized quartz vein with abundant manganese. Taken from site of DA#3. - 0.012 oz/ton Au.
DA#6	Skarn or greenstone containing disseminated pyrite. Taken from Debbie adit at location of Sample DA#4. - 0.024 oz/ton Au.

- 5 -

- DA#7 Rusty, gossan material containing minor quartz and manganese oxides. Selected from site of Sample DA#2 in the Debbie adit.
- 0.010 oz/ton Au.
- 4390 White quartz obtained from trench approximately 61 metres easterly from portal. Appears to be vein material containing a minor amount of blue-grey sulphide. The sulphide is hard, similar in colour to malibdonite and occurs as fine blebs within the quartz.
- 0.005 oz/ton Au, 0.05 oz/ton Ag.
- 4391 Medium-grained diorite. Contains disseminated pyrite and possibly chalcopyrite. Sample obtained from outcrop near the portal of the Debbie adit.
- 0.008 oz/ton Au, 0.05 oz/ton Ag,
 0.02% Cu.
- 4392 Debbie adit dump. Metasediment skarn with massive pyrite and probably minor chalcopyrite possibly bornite. Sulphides are in pods and lenses in the rock which is sometimes almost gneissic in appearance.
- 0.095 oz/ton Au, 0.25 oz/ton Ag,
 0.34% Cu, 0.01% Pb, 0.19% Zn.
- 4393 Debbie adit dump. Sulphide bearing calc-silicate skarn. Sulphides occur as parallel streaks in dark green metasediment skarn. Bands of pale green calc-silicate occur parallel to the sulphide streaks.
- 0.102 oz/ton Au, 0.20 oz/ton Ag.
- 4394 Debbie adit dump. Altered metasedimentary rock containing strongly disseminated pyrite. Rock is bleached and stained with a pale bluff coloured and rust coloured alteration products.
- 0.008 oz/ton Au, 0.03 oz/ton Ag.

- 6 -

4395 Debbie adit dump area. Massive sulphide bearing skarn similar to Sample #4393. Sulphides occur in massive streaks separated by bands of calc-silicate in intensely altered sedimentary or volcanics. Sulphides consist of pyrite, probably bornite and chalcopyrite.
- 0.154 oz/ton Au, 0.35 oz/ton Ag,
0.32% Cu.

4. RESULTS

The results of the sampling produced four interesting assays. Three samples from the water dump assayed 0.210, 0.154 and 0.102 gold oz/ton. A sample taken inside the adit assayed 0.112 gold oz/ton.

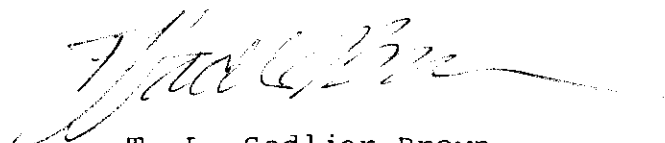
These samples came from the same rock type which is a disseminated sulphide greenstone or calc-silicate rock type.

For locations and complete assays see Figure 5, Table 1 and Appendix B.

Respectfully submitted,

NEVIN SADLIER-BROWN GOODBRAND LTD.

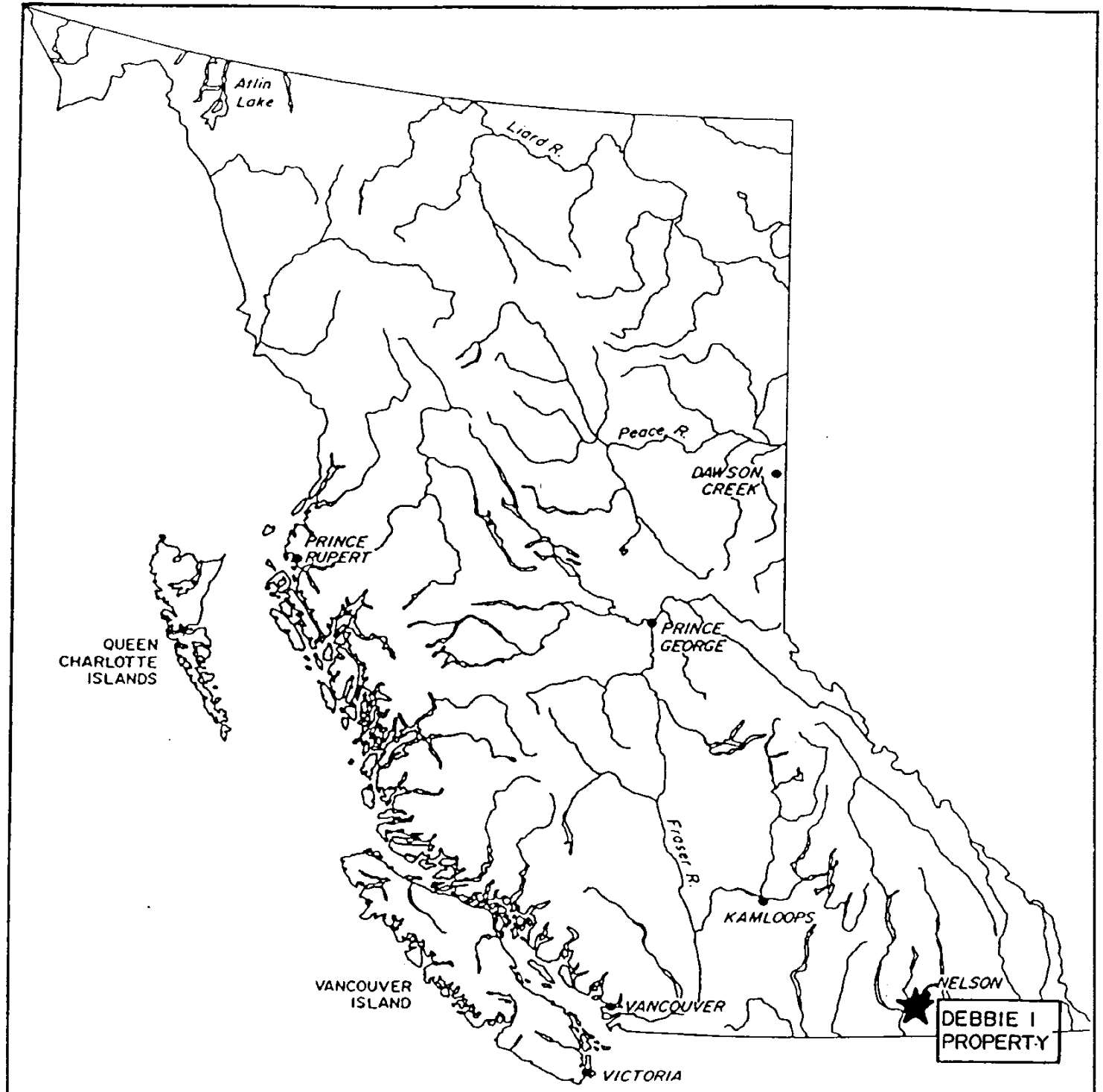

Dwayne L. Melrose, Geologist


T. L. Sadlier-Brown

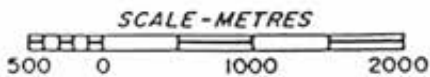
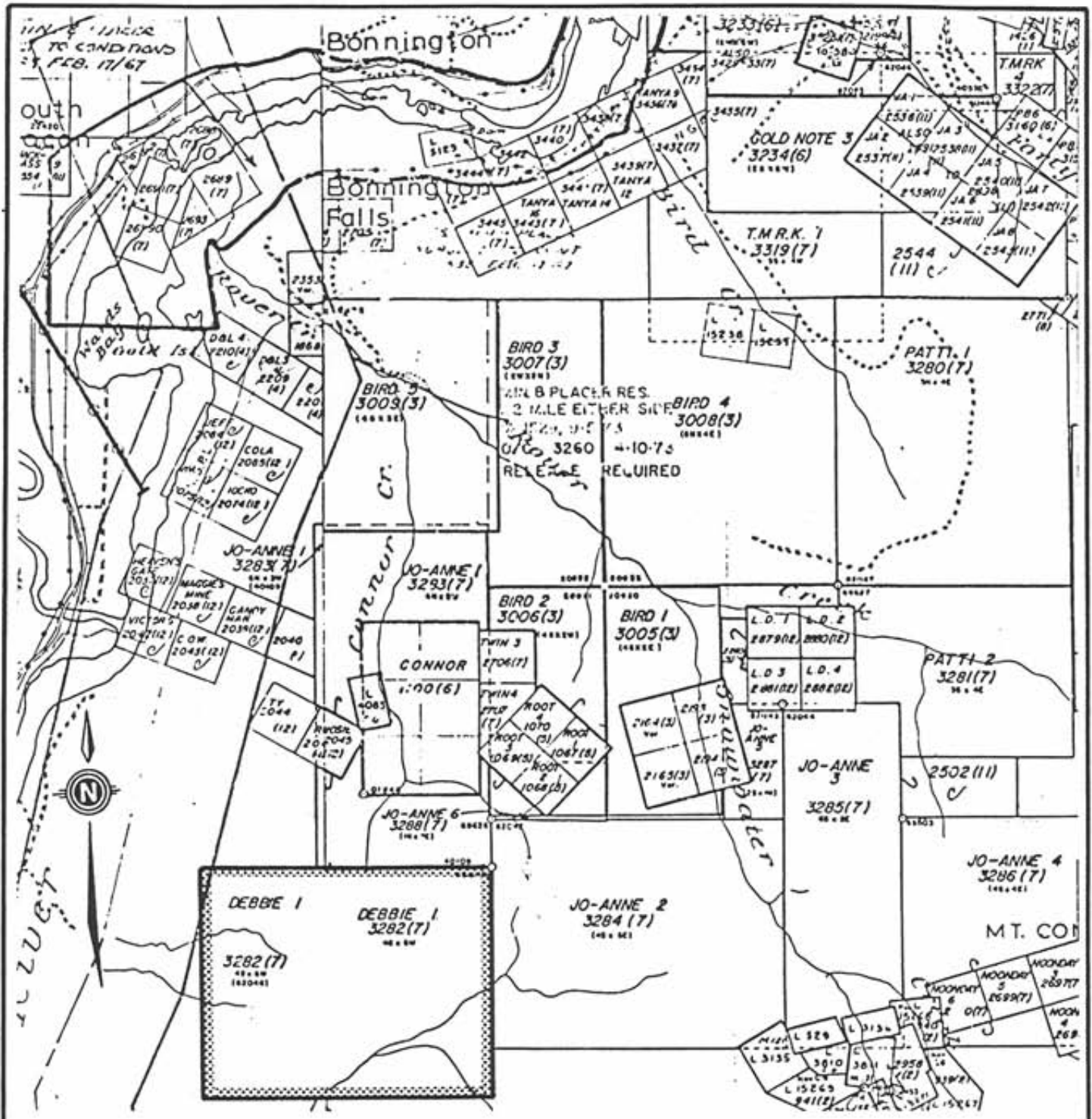
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5. BIBLIOGRAPHY

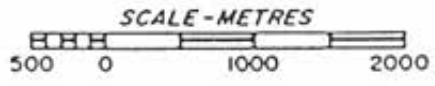
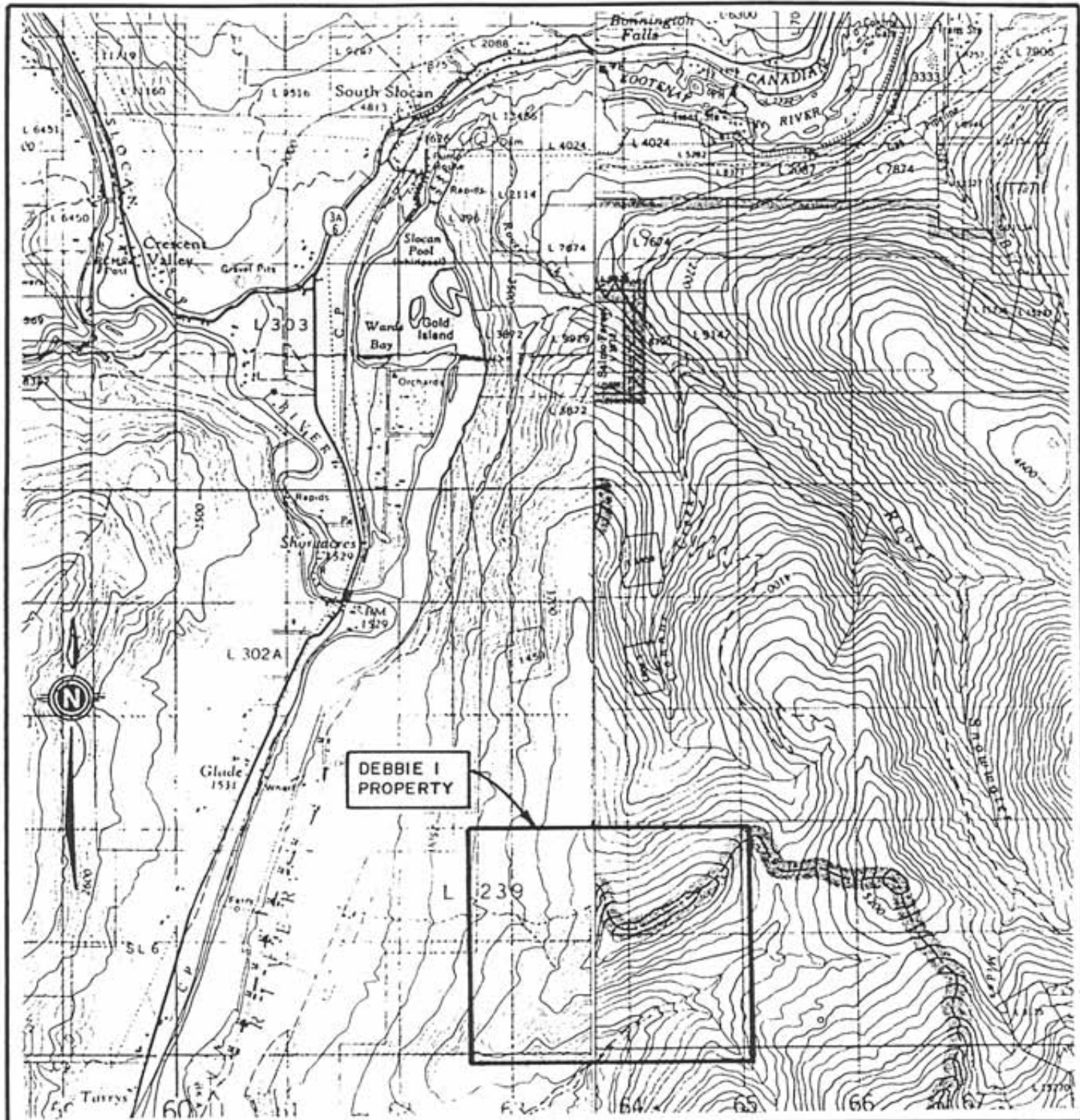
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HILLSIDE ENERGY CORPORATION	
<u>DEBBIE I PROPERTY</u>	
LOCATION MAP	
NELSON M.D., B.C.	NTS MAP 82-F/6W and 5E
FIGURE I	SCALE: As Shown
NEVIN SADLIER-BROWN GOODBRAND LTD. APRIL 1984	



HILLSIDE ENERGY CORPORATION	
<u>DEBBIE I PROPERTY</u>	
CLAIM MAP	
NELSON M.D., B.C.	NTS MAP 82F/6 W and 5E
FIGURE 2	SCALE 1:50000
NEVIN SADLIER-BROWN GOODBRAND LTD. APRIL 1984	



HILLSIDE ENERGY CORPORATION	
DEBBIE I PROPERTY	
TOPOGRAPHY MAP	
NELSON M.D., B.C.	NTS MAP 82F/6W and 5E
FIGURE 3	SCALE 1: 50000
NEVIN SADLER-BROWN GOODBRAND LTD.	
APRIL 1984	

LEGEND

CLINOZOIC

LOWER CRETACEOUS(?)

- 20** Valhalla Plutonic Rocks: granite, minor pegmatite
- 19** Nelson Plutonic Rocks: 19b - non-porphyrific granite to granodiorite; 19c - granodiorite; 19d - quartz diorite; 19e - syenite; 19f - mainly fine grained, porphyritic syenite to quartz diorite; 19h - pseudodiorite & pyroxene-hornblende-biotite rock; 19k - diorite

MESOZOIC

JURASSIC

MIDDLE & (?)UPPER JURASSIC

- 17** Hall Formation: Argillite, sandstone & conglomerate

LOWER JURASSIC

- 16** Rossland Formation: Andesite, latite, basalt, flow breccia, augite porphyry, agglomerate, tuff; minor shale
- 15** Simurian Beds: argillite, argillaceous quartzite, slate; minor flows & pyroclastic rocks. May be equivalent to upper parts of 13 & 14

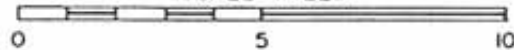
PERMIAN(?), TRIASSIC(?) & LOWER JURASSIC(?)

YMER GROUP

- 14** Argillite, slate, argillaceous quartzite; minor limestone
- B** Argillite, argillaceous quartzite, greywacke; locally conglomerate; minor flows & pyroclastic rocks. Probably not older than Carboniferous, but in part may be Jurassic
- A** Augen gneiss, hornblende-biotite-feldspar gneiss; minor crystalline limestone & skarn. Probably Early Mesozoic



SCALE - MILES



HILLSIDE ENERGY CORPORATION

DEBBIE I PROPERTY

REGIONAL GEOLOGY MAP

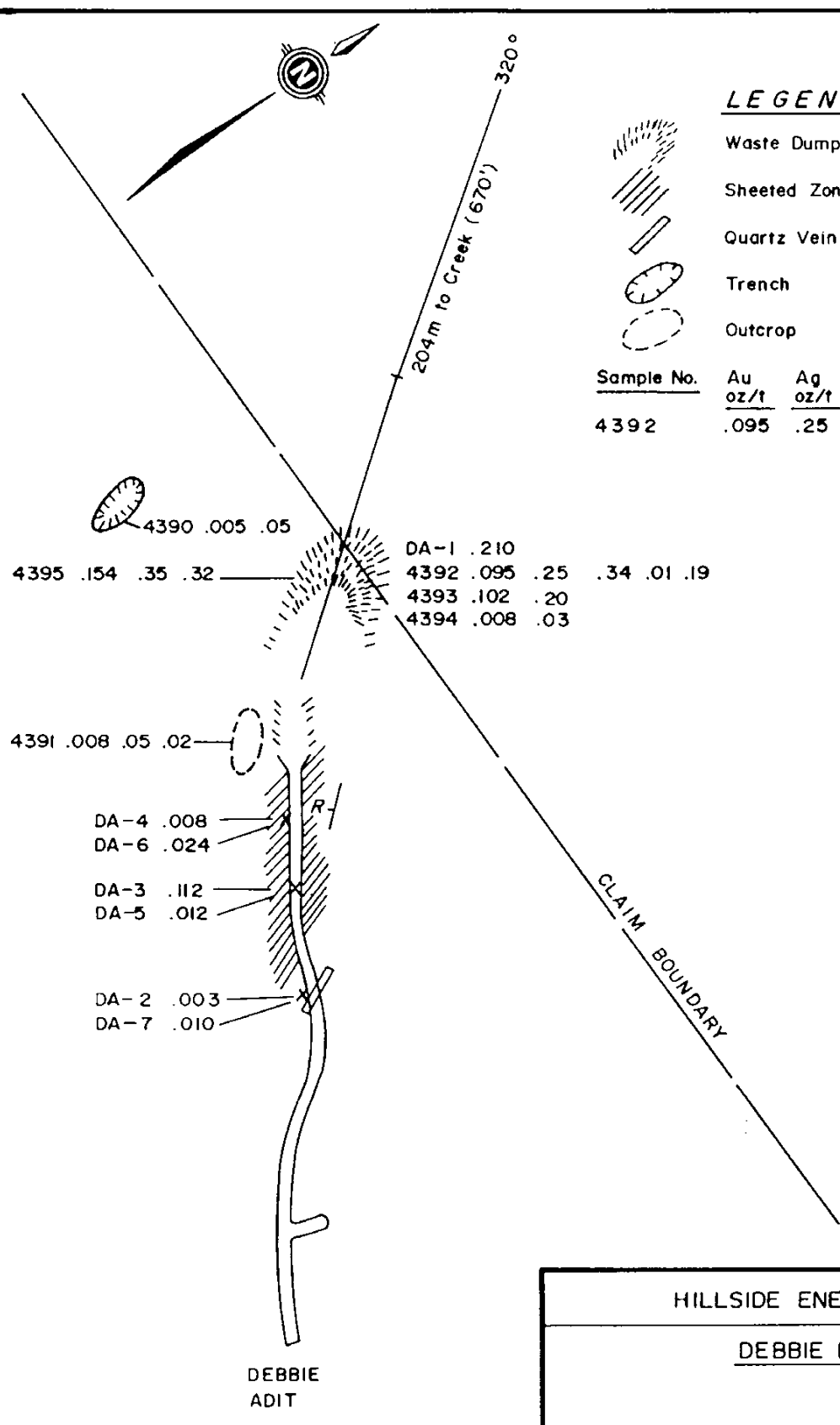
NELSON M.D., B.C.

GSC MAP 1090A
NTS MAP 82 F/6W and 5 E

FIGURE 4

SCALE 1:253,440

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APRIL 1984

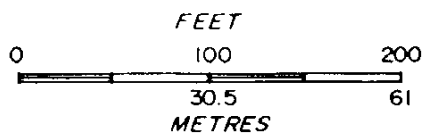


LEGEND

- Waste Dump
- Sheeted Zone (Quartz Veins, Diorite, Skarn)
- Quartz Vein
- Trench
- Outcrop

Sample No.	Au oz/t	Ag oz/t	Cu %	Pb %	Zn %
4392	.095	.25	.34	.01	.19

4390	.005	.05			
4395	.154	.35	.32		
4391	.008	.05	.02		
DA-4	.008				
DA-6	.024				
DA-3	.112				
DA-5	.012				
DA-2	.003				
DA-7	.010				
DA-1	.210				
4392	.095	.25	.34	.01	.19
4393	.102	.20			
4394	.008	.03			



HILLSIDE ENERGY CORPORATION

DEBBIE I PROPERTY

SAMPLE LOCATION MAP

NELSON M.D., B.C. NTS MAP 82F/6W and 5E

FIGURE 5 SCALE: As Shown

NEVIN SADLIER-BROWN GOODBRAND LTD.
APRIL 1984

TABLE 1 - Sample Results

<u>Sample No.</u>	<u>Au</u> <u>oz/ton</u>	<u>Ag</u> <u>oz/ton</u>	<u>Cu</u> <u>%</u>	<u>Pb</u> <u>%</u>	<u>Zn</u> <u>%</u>
DA-1	0.210	0.05	0.02	0.01	0.17
DA-2	0.003				
DA-3	0.112				
DA-4	0.008				
DA-5	0.012				
DA-6	0.024				
DA-7	0.010				
4390	0.005	0.05			
4391	0.008	0.05	0.02		
4392	0.095	0.25	0.34	0.01	0.17
4393	0.102	0.20			
4394	0.008	0.03			
4395	0.154	0.35	0.32		

APPENDIX A

Statement of Qualifications

Statement of Qualifications

I, Dwayne L. Melrose hereby certify that:

1. My residence address is 323 Seymour River Place, North Vancouver, B.C. V7H 1S6.
2. I am a consulting geologist with the firm of Nevin Sadlier-Brown Goodbrand Ltd., 401-134 Abbott Street, Vancouver, B.C. V6B 2K4.
3. I hold a B.Sc. in Honours Earth Science from the University of Waterloo, Waterloo, Ontario. I have been practicing my profession since 1981.
4. I am an Associate Member of the Geological Association of Canada.
5. I have reviewed the data and literature concerning the Debbie-1 Claim and have co-authored this report.

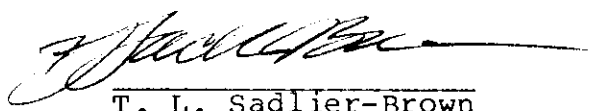

Dwayne L. Melrose, Geologist

April 6, 1984

Statement of Qualifications

I, Timothy L. Sadlier-Brown hereby certify that:

1. I am a consulting geologist and partner in the firm of Nevin Sadlier-Brown Goodbrand Ltd. with offices at 401-134 Abbott Street, Vancouver, B.C. V6B 2K4.
2. I was educated at Carleton University in Ottawa, Ontario and am a Fellow of the Geological Association of Canada.
3. I have acted in the field of exploration geology in positions of responsibility since 1965 and have been a principal in the firm of Nevin Sadlier-Brown Goodbrand Ltd. since 1972.
4. I personally carried out the geological examinations and sampling on the Debbie-1 claim as described in this report.


T. L. Sadlier-Brown

April 6, 1984

APPENDIX B
Certificate of Analysis



CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TC : HILLSIDE ENERGY CORPORATION

401-134 ABBOTT STREET
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314995-CC1-A
INVOICE # : 12314995
DATE : 4-CCT-83
P.C. # : NCNE

Debbie #212

Sample description	Prep code	Pb %	Ag FA oz/T	Au FA oz/T			
CA-1	207	--	--	0.210	--	--	--
CA-2	207	--	--	0.003	--	--	--
CA-3	207	--	--	0.112	--	--	--
CA-4	207	--	--	0.008	--	--	--
CA-5	207	--	--	0.012	--	--	--
CA-6	207	--	--	0.024	--	--	--
CA-7	207	--	--	0.010	--	--	--



MEMBER
CANADIAN TESTING

[Signature]
.....
Registered Assayer, Province of British Columbia



TO:
 HILLSIDE ENERGY CORPORATION
 401 - 134 Abbott St.,
 Vancouver, B.C.
 V6B 2K4

General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1847 TELEX 04-507514 CABLE: SUPERVISE

CERTIFICATE OF ASSAY

No.: 8307-1552 DATE: July 19/83

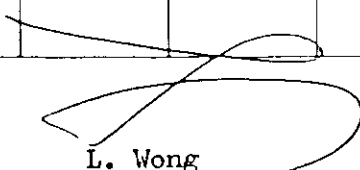
We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	SILVER	Copper	Lead	Zinc	XXX	XXX	XXX
	oz/st	oz/st	Cu (%)	Pb (%)	Zn (%)			
4390	0.005	0.05	-	-	-			
4391	0.008	0.05	0.02	-	-			
4392	0.095	0.25	0.34	0.01	0.19			
4393	0.102	0.20	-	-	-			
4394	0.008	0.03	-	-	-			
4395	0.154	0.35	0.32	-	-			

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NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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 L. Wong
 PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association
 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute of Oilseed Products • The American Oil Chemists' Society

Appendix CItemized Cost StatementLabour

T. Sadlier-Brown	
7 days @ \$548.85/day	\$ 3,841.95
B. Swintz	
2 days @ \$269.00/day	<u>538.00</u>
Sub Total	<u>\$ 4,379.95</u>

Disbursements

Vehicle Rental, 4 days @ \$45.35/day	\$ 181.40
Travel, meals, accomodation	
9 man-days @ \$30.18/man//day	271.62
Supplies	3.21
Assaying costs	193.85
Reporting and drafting	<u>784.75</u>
Sub Total	<u>\$ 1,434.83</u>
GRAND TOTAL	<u>\$ 5,814.78</u>