

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

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Gold Commissioner's Office
VANCOUVER, B.C.

GEOPHYSICAL SURVEY

by

Gary C. Lee, P.Eng.

June, 1995

HENNING PLACER CLAIM #319800
HEN 1 MINERAL CLAIM #337044

Atlin Mining Division, B.C.

NTS Map 104 N/14E
Latitude 59° 52', Longitude 133° 03'

Owner: Gary C. Lee
Work done by: Gary C. Lee

Date Submitted:

Nov.

, 1995

GEOLOGICAL BRANCH
ASSESSMENT REPORT

24,160

FILMED

TABLE OF CONTENTS

	Page
INTRODUCTION	
General	1
Location and Access	1
Property History	1
Location Map	2
Claim Map	3
Topography	4
Grid & Field Procedure	4
GEOLOGY MAP	5
PHOTOGRAPHS	6
ECONOMIC GEOLOGY	7
PURPOSE	7
RESULTS	8
INTERPRETATION AND CONCLUSIONS	8
RECOMMENDATIONS	9
STATEMENT OF COSTS	10
STATEMENT OF QUALIFICATION	11
DIAGRAM #1 MAGNETOMETER AND VLF COMPOSITE PLAN	Pocket
DIAGRAM #2 VLF PLAN	Pocket

INTRODUCTION

General

Between June 21 and June 25, 1995 the writer completed a magnetometer and VLF survey on the Henning (#319800) placer claim and the Hen 1 (#337044) mineral claim. Approximately 3 km of lines and baseline were completed.

The claims are owned by myself.

Location and Access

The property is located approximately 3 km south of Gladys Lake and is clearly marked on the maps on Pages 3 and 5.

Access to Atlin is by an all-weather road connected to the Alaska Highway. Access to the claims is by the Ruffner Mine Road commencing from the main highway north of Atlin. This gravel road proceeds approximately easterly and becomes the Gladys Lake Road. It is not maintained in the winter, consequently access is achieved by snowmobile or chopper in winter. The distance to the Henning Claims from the highway is 55 km. A four wheel drive trail cuts through the centre of the claim (see map in pocket).

Property History

There is no information as to when exactly prospectors worked on the Henning claims. However, information (B.C. Ministry of Mines Reports) show the surrounding creeks (Davenport and Lincoln) receiving considerable exploration activity between 1900 and the 1930s. It can only be assumed that the old workings seen on the maps contained in the pocket and in the photographs on page 6 occurred at the same time. It is generally known that Amax

PROPERTY

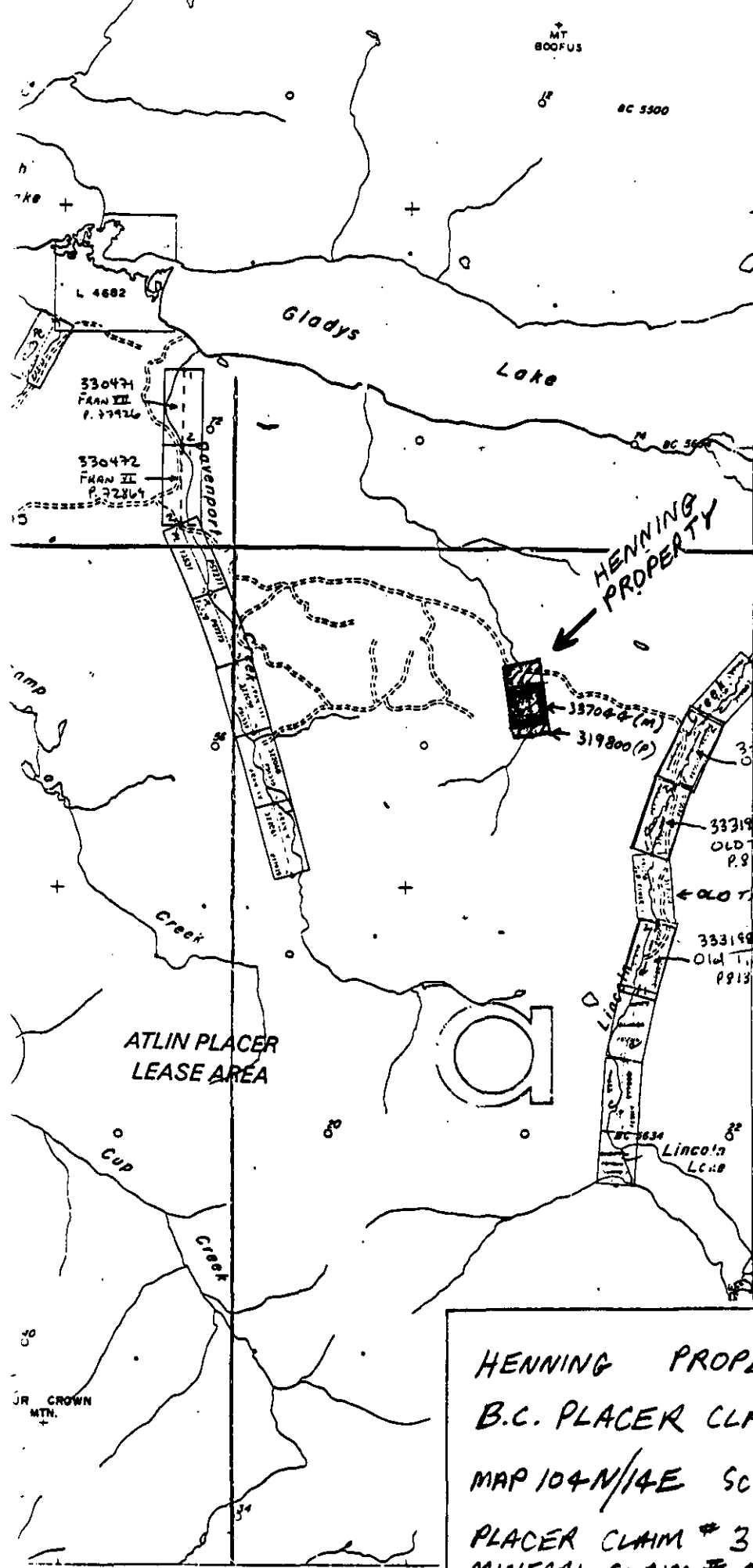


0 100 200 300

KILOMETRES

LOCATION MAP

ORIGINAL PRODUCED BY
500 0 500 1000 METERS
SCALE
ADMINISTRATIVE A
MINING DIVISIONS: ATLIN

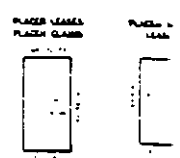


LAND DISTRICTS:

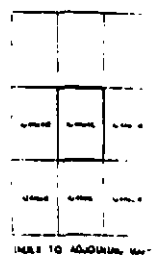
ALIENATIONS
NO STAKING AREAS -
NO STAKING RESERVES
PARAS
ECOLOGICAL RESERVES
RECREATION AREAS
INDIAN RESERVES
POST CLAIM AREAS
RECREATION AREAS

CONDITIONAL AREAS
SUBJECT TO CONDITIONS -

PLACER TENURE
PLACER CLAIM OR LEASE
LEASE OF PLACER MINERALS
CLAIM NAME
TITLE NUMBER
OLD TITLE NUMBER
TAG NUMBER
LEGAL POST
WITNESS POST
FORFEITED TENURE
VERIFIED
SURVEYED



THIS MAP IS PREPARED ONLY TO THE LOCATION OF PLACER AS SHOWN ON THE LOCATIONS FOR CURRENT OR MORE SPECIFIC INFORMATION, APPLICATION IS MADE TO THE MINING DIVISION



Pg. 3
HENNING PROPERTY
B.C. PLACER CLAIM MAP
MAP 104N/14E Scale: ≈ 1:75,000
PLACER CLAIM # 319800
MINERAL CLAIM # 337044

104N14E

Exploration Inc. did considerable exploration including diamond drilling, to the west, on mineral claims during the late 1960s and early 1970s. It is assumed that the work on the Henning claims is placer. However, information is so scarce at the time of writing of this report, that the workings could be the result of a bedrock mineral occurrence.

Davenport creek to the west, has been placer mined over the past few years.

Topography

The property is approximately 4500 feet above sea level and is easily traversed on foot. Most of the trees have been logged off near the old workings leaving mostly Alder and brush. Beyond this, the vegetation is typical of a forested area consisting of evergreens, poplar and alders. The small creek is very narrow and can be stepped across with ease.

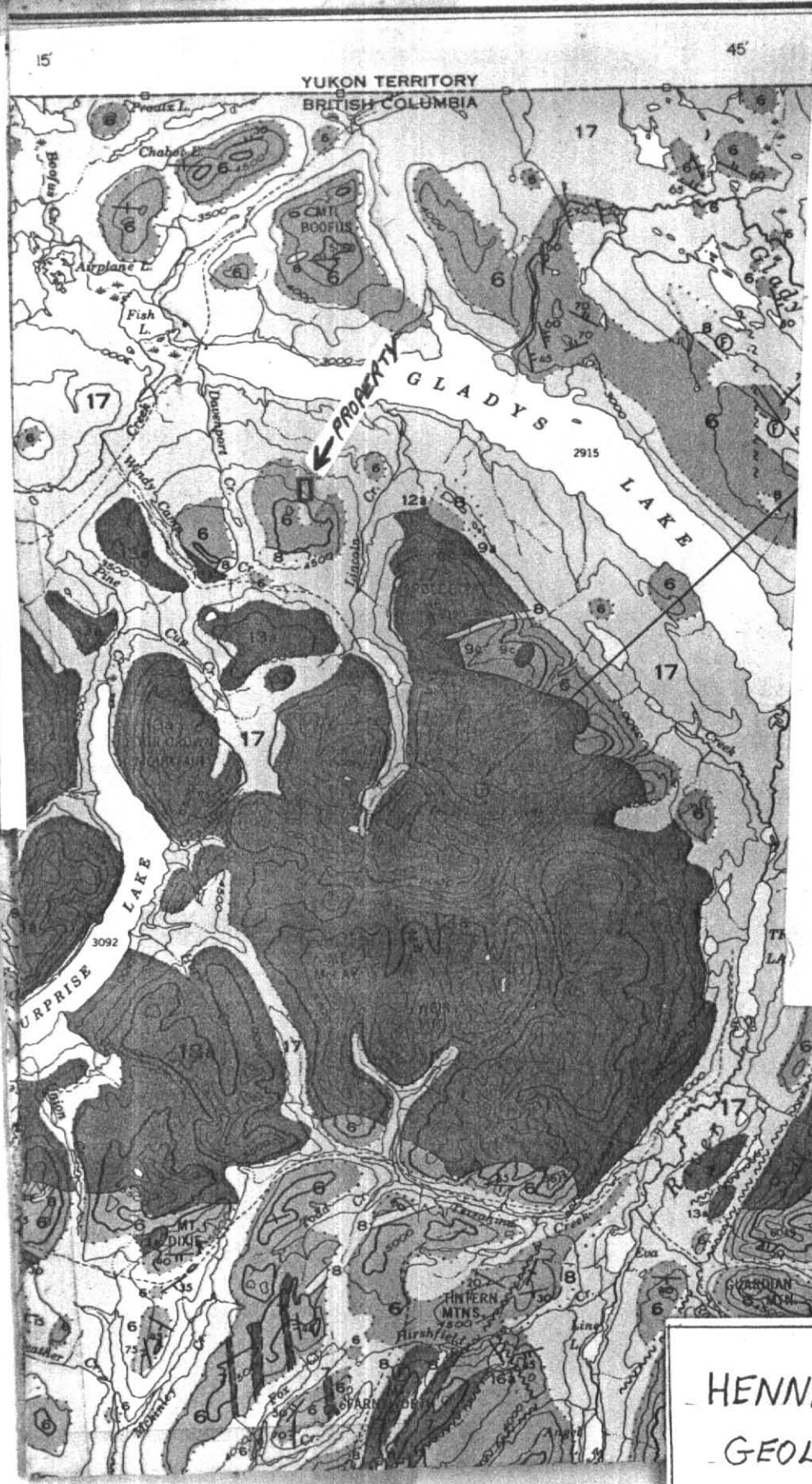
Grid and Field Procedure

Approximately 3000 metres of lines, cross lines and base lines were surveyed. The baseline was picketed using four foot pickets with metal tags. The cross lines were flagged only in 20 metre stations.

A Geonics EM-16 was employed for the VLF survey with readings taken at 10 metre intervals. Both the in-phase and quadrature were read. All stations were read by facing the direction of the transmitting station and thence turning clockwise 90° before taking the readings. Lines were read on Seattle, Washington and Hawaii since the conductor directions were unknown. Only Seattle was plotted (Diagram 2 in pocket) since the Hawaii readings stayed pretty much in the background.

LEGEND

- QUATERNARY**
PLEISTOCENE AND RECENT
- 17 Glacial drift; alluvium
- TERTIARY AND QUATERNARY**
- 16 Olivine basalt and scoria; 16a, Tertiary; 16b, Pleistocene
- TERTIARY (?)**
- 15a, quartz monzonite; 15b, gneiss; 15c, gabbro and diorite
- CRETACEOUS OR TERTIARY**
SLOUG GROUP
- 14 Andesite, basalt, albite trachyte, albite rhyolite, dacite, and related pyroclastic rocks; conglomerate, sandstone
- CRETACEOUS**
- 13a, andesite; 13b, quartz monzonite
- JURASSIC** (May be in part older and younger)
- COAST INTRUSIONS**
- 12a, Undifferentiated granitic rocks; 12b, Black Mountain body; 12c, Fourth of July Creek body; 12d, pink granite; 12e, Mount McMaster body; 12f, diorite; 12i, alkaline granite
- JURASSIC**
- LABERGE GROUP**
- 11 Volcanic gneiss, siltstone, mudstone, shale, conglomerate; minor concretionary sandy limestone
- TRIASSIC (?)**
- 10 Gneiss, chert, argillite, conglomerate, silt, slate, greenstone, impure limestone, soap
- PENNSYLVANIAN AND PERMIAN**
ATLIN INTRUSIONS
- 9a, Peridotite, meta-diorite and meta-gabbro; 9b, serpentinite; 9c, carbonized serpentinite; 9d, talc-bearing (steatized) ultramafic rocks
- CACHE CREEK GROUP**
- 8a, Chert, argillite, chert-pebble conglomerate and chert breccia; derived quartzite and schist; minor 7 and 8
 - 7, Greenstone and volcanic gneiss; derived amphibolite; minor 6 and 8
 - 6, Limestone and limestone breccia
- PENNSYLVANIAN AND/OR PERMIAN**
- 4, Andesite, basalt, and related pyroclastic rocks; conglomerate, sandstone, shale
 - 5, Limestone
- May be in part or wholly equivalent to 6, 7, 8
- MISSISSIPPIAN AND/OR EARLIER**
EVLVETER GROUP
- 3a, greenstone, chlorite schist, gneiss, quartzite, quartzite schist; 3b, impure crystalline limestone
- PRE-PERMIAN**
- QUATERNARY**
- Quartz monzonite
- TUSON GROUP**
- Hornblende-quartz-feldspar schist and gneiss; quartzite, crystalline limestone. May be in part equivalent to 3
- UNDIFFERENTIATED**
- Undifferentiated, mainly volcanic rocks of uncertain, possibly several, ages. Andesite, basalt, agglomerate, tuff, breccia, diorite and quartz diorite porphyritic rhyolite. In part probably Triassic, probably equivalent to 10



Pg 5

HENNING PROPERTY
GEOLOGY MAP (104N) ↑
G.S.C. - AITKEN - 1960
Scale: 1:250,000

HENNING CLAIM - MAP 104 N 14 E



↪ COLLAPSED PORTAL
JUST ABOVE TAILINGS PILE

↪ LOOKING N.W. TOWARDS GLADYS LAKE
YELLOW RAINCOAT IN CENTRE OF PICTURE
IS ON LONG TAILINGS PILE FROM UNDERGRD.
NOTE: UNDERGROUND MINERS LOGGED THE SMALL
VALLEY ALMOST COMPLETELY OFF



SINK HOLES FROM CAVED UNDERGROUND
LOCATED APPROX. 100 METRES UPSTREAM
FROM PORTAL

TOTAL FLOW (LATE JUNE) OF
HENNING CREEK UNDER ROAD
TO LINCOLN CREEK

Magnetometer readings were taken at 5 meter spacings with a Scintrex MF-2 fluxgate magnetometer. The instrument reads the vertical component of the earth's magnetic field. Readings were taken to the nearest 10 gammas in short loops and corrected for diurnal. Each loop was subsequently corrected to adjacent loops throughout the survey.

ECONOMIC GEOLOGY

The only geological information available at the time of writing of this report is that shown on Aitken's geology map (1960) as shown on Page 5. As can be seen, the area covered by the property is mapped as glacial drift and/or alluvian. However, close by and on each side, the Cache Creek Group of rocks consisting of unit 8 -- chert, argillite, chert-pebble conglomerate and chert breccia; derived quartzite and schist; minor 7 and 8 occur, so probably underlay the property as well.

The underground workings are extensive reaching over 100 metres in length (interpreted from sink holes on surface). However, no production figures could be found.

PURPOSE

Placer

- 1) Locate any linear mag highs (placer magnetite) which might indicate a buried channel.
- 2) Locate a VLF conductor axis which could indicate a gouge filled fault or slip. This being especially susceptible to erosion could have been easily scoured out by water, leaving an old buried channel.

Mineral (bedrock)

- 1) Both mag. contacts and fault or slip zones (VLF conductor axis) are good places to look for bedrock mineralization.
- 2) A VLF conductor could also indicate the occurrence of massive sulfides.

RESULTS

The VLF results can be seen as profiles on the map (diagram #2) contained in the pocket. The location of the VLF conductor axis have been transferred to the magnetometer and VLF composite map contained in the pocket.

INTERPRETATION AND CONCLUSIONS

On the map (Diagram #1 in pocket) it can be seen the magnetometer readings are pretty quiet with no definite linears. The general mag. activity on the south end of the grid probably represents a change in bedrock and does not present any specific test sites. The only mag. activity of any interest is on the north end of the grid east of the 4 X 4 trail on lines 4+50S and 4+00S. These should be tested in the area of the conductor axis. The conductor axis as plotted on the map, should be tested both for mineral potential in bedrock and possibly placer trap, if it proves to be a fault gauge.

As can be seen on LINE 660S the conductor axis occurs at 13E. This is very close to the underground sink holes. Consequently, it is possible the old time underground miners may have been following whatever is causing the conductor axis!

RECOMMENDATIONS

1. Prospect ^{the} property especially in ^{the} area around the conductor axis, old workings and creek.
2. Extend geophysics to north.
3. Test pit or trench conductor axis in the area of L450S, 70E and L500S, 30E upstream to the sink holes.
4. Dependant on results of prospecting, test any additional areas that appear interesting.

HENNING PLACER CLAIM
HEN 1 MINERAL CLAIM
ATLIN MINING DIVISION, B.C.

Value of Assessment Work -- Geophysical Survey

FIELD: June 21 - 25, 30, 1995 includes mob. & demob.)

Engineer: 6 days at \$350/day	\$2,100.00
Magnetometer & VLF rental	250.00
Living allowance 6 days @ \$50/day	300.00
Truck (4X4) and camper 6 days @ \$70/day	420.00
Supplies, pickets, flagging, thread, tags, batteries, etc.	100.00

REPORT

Data reduction, drafting and report composition	\$ 600.00
Report typing	60.00
Report reproduction (sepias, etc.)	140.00

TOTAL \$3,970.00

Application of Assessment Work

Henning Placer Claim (#319800)		
5 yrs x \$500/yr	=	\$2,500.00
Hen 1 Mineral Claim (#337044)		
8 years -- 3 years x \$100/yr	=	300.00
-- 5 years x \$200/yr	=	1,000.00

omit

TOTAL \$3,800.00

←

3,970.00

- placer 2500.00

Mineral \$ 1,470.00

30% + PAC withdrawal ~~230.00~~

\$ 1700.00

Total for mineral

STATEMENT OF QUALIFICATION

I, **GARY C. LEE**, of the City of Whitehorse in the Yukon Territory
HEREBY CERTIFY that:

1. I am a self-employed Geological Engineer.
2. I am a graduate of the University of Toronto, Toronto, Ontario, with a degree in Applied Science - Geological Engineering (Mineral Exploration option).
3. I am a member of the Professional Engineering Associations of the Yukon, B.C. and Ontario.
4. I supervised and carried out the work described in this report.

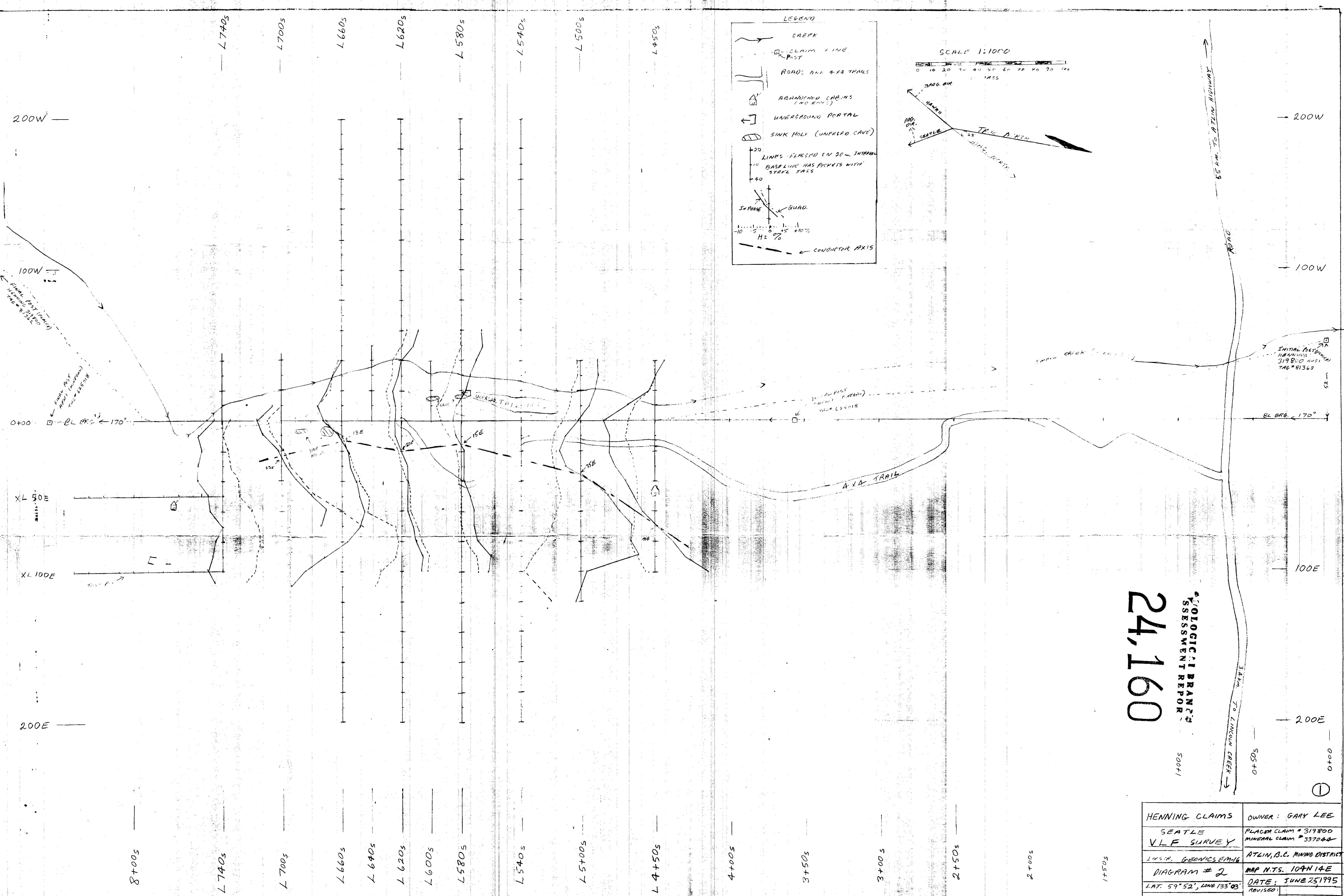
Respectfully submitted,



Gary C. Lee, P.Eng.

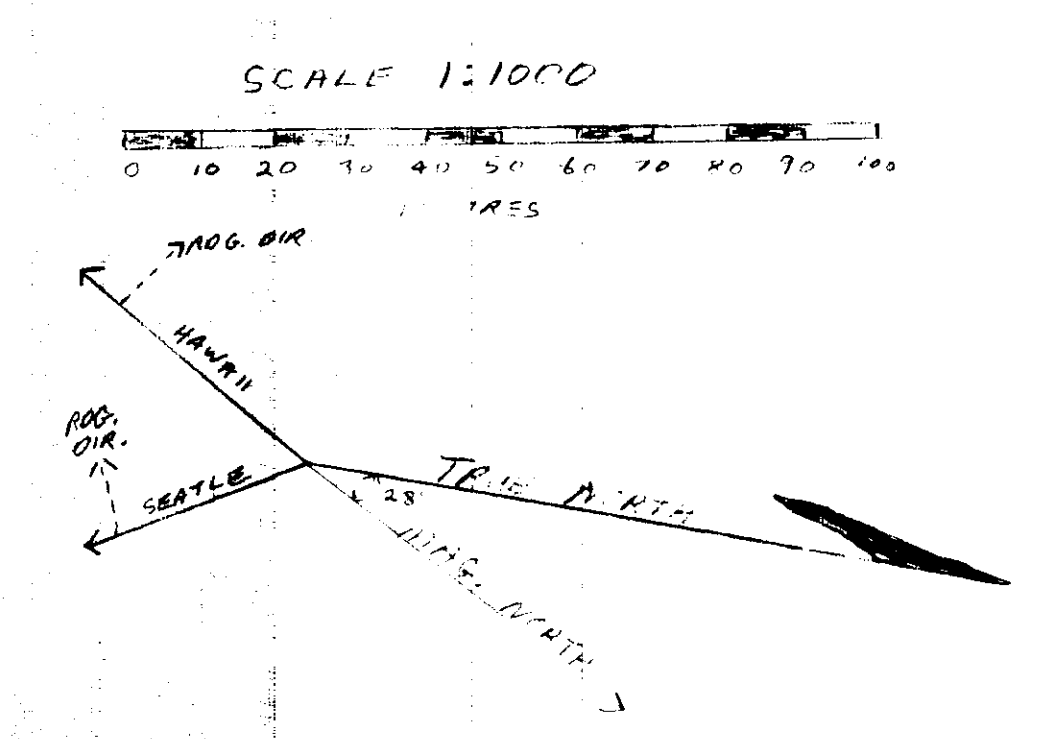
Date: _____

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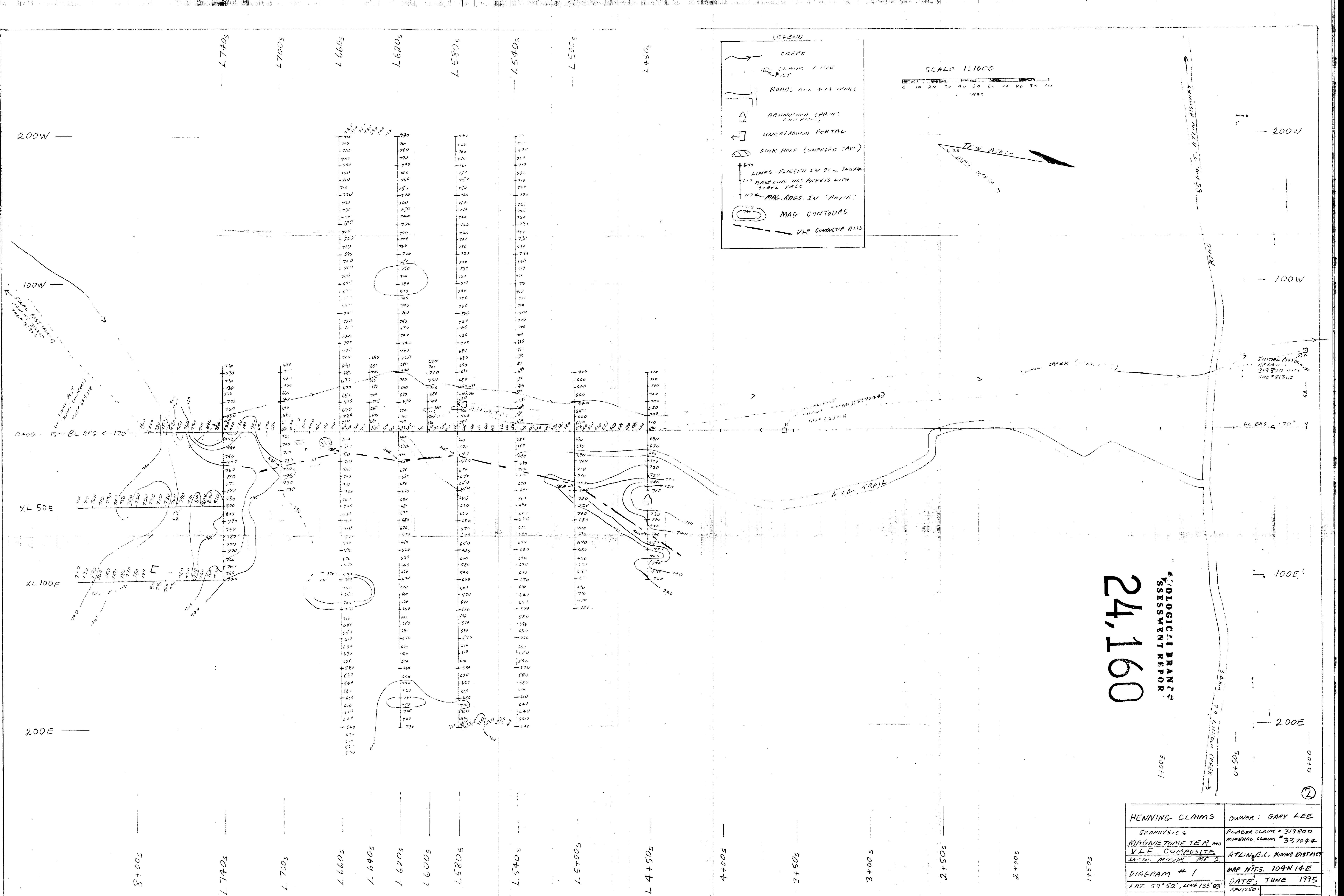
LEGEND

- CREEK
- CLAIM LINE
- ROAD: ALL 4 X A TRAILS
- ABANDONED CABINS (M.C. RAIN)
- UNDERGROUND PORTAL
- SINK HOLE (UNFROD CAVE)
- LIMBS FLAGGED IN 20' INTERVALS
BASELINE HAS PICKETS WITH STEEL TAGS
- IN PHASE
- QUAD.
- CONDUCTOR AXIS



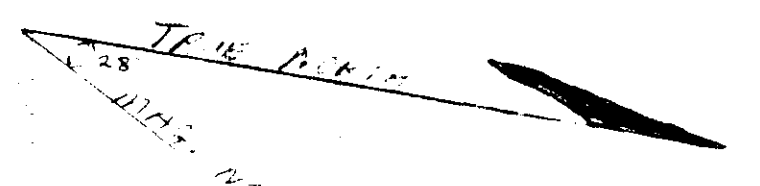
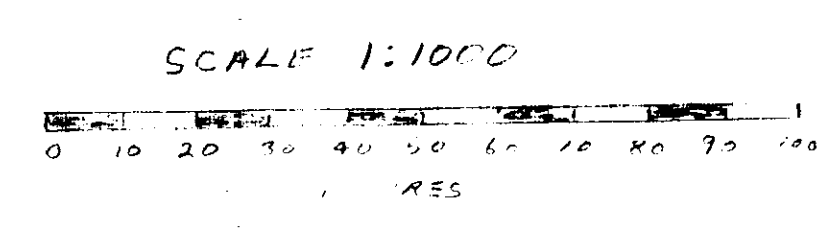
24,160

HENNING CLAIMS	OWNER: GARY LEE
SEATTLE VLF SURVEY	PLACER CLAIM # 319800 MINERAL CLAIM # 337044
UNSR. GEONICS EMING	ATLIN, B.C. MINING DISTRICT
DIAGRAM # 2	MAP N.T.S. 104N 14E
LAT. 59°52', LONG 133°03'	DATE: JUNE 25, 1995
SURVEYED BY: GARY LEE	REVISED:



LEGEND

- CREEK
- CLAIM LINE
- ROAD, ALL 4-14 TRAILS
- ARRANGEMENT (NO NAME)
- UNDERGROUND PORTAL
- SINK HOLE (UNFILLED "AVI")
- LINES - FILLED IN 2L - INTERM.
- BASE LINE HAS PICKETS WITH DEEP TAPS
- MAG. RODS. IN "ARRANGEMENT"
- MAG. CONTOURS
- VLF CONDUCTIVITY AXIS



24,160

**GEOLOGICAL BRANT'S
ASSESSMENT REPORT**

HENNING CLAIMS	OWNER: GARY LEE
GEOPHYSICS	PLACER CLAIM # 319800
MAGNETOMETER AND VLF COMPOSITE	MINERAL CLAIM # 337044
INSTN. MUEHR MF 2	ATLANTA, B.C. MINING DISTRICT
DIAGRAM # 1	MAP N.T.S. 104N14E
LAT. 59° 52', LONG 133° 03'	DATE: JUNE 1995
	REVISED:

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