

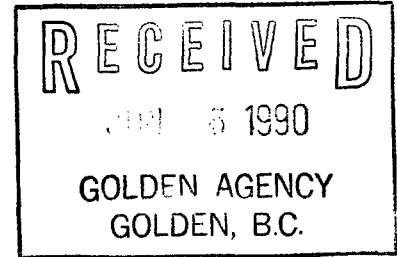
LOG NO: 10-16	RD. /
ACTION: Date received back from amendment	
FILE NO:	

LOG NO: 0608	RD.
ACTION:	
FILE NO:	

1989 GEO - CHEM SURVEY RESULTS

AND

TRENCHING RESULTS



THE VAD MINERAL CLAIM

THE GOLDEN MINING DIVISION, GOLDEN, B.C.

NTS MAP: M82K/15W
Lat. 50 Deg. 55 Min.
Long. 116 Deg. 55 Min.

for

James S. Adamson, (Operator) - Paid For All work done.

James S. Adamson, Owner of the VAD Claim, Calgary, Alberta.

Report prepared by- Bruce H. van der Lee, P. Eng.
May 30, 1990.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

B.H. van der Lee, P. Eng.

20,035

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INCLUSIONS

INDEX MAP ✓

CLAIM LOCATION MAP ✓

GEOLOGICAL MAP ✓

TRENCH LOCATION MAP ✓

ASSAY REPORTS AND THIN SECTION REPORT ✓

GEO-CHEM MAPS - Pb - 5L , - Au - 5G. ✓

PROPERTY

The property consists of one unpatented mineral claim containing 20 units.

It is known as the VAD Mineral Claim.

The VAD Claim is owned by James Adamson of Calgary, Alta.

LOCATION AND ACCESS

The VAD Claim is located between Crystalline and Conrad Creeks, and approximately 1500 meters south of the junction of Conrad and Vowell Creeks.

The claim is 56km from Parsons, B.C., and is accessible by an all-weather road. Parsons is served by Highway 97 and the CPR. The property is on the west slope of the Vowell Creek valley at an elevation of 1300 to 2000 meters. Much of the property is accessible by 4 wheel drive vehicles over existing logging trails.

Although the valley is heavily timbered about a third of the claim area has been logged.

ECONOMIC GEOLOGY

The VAD mineral claim is an interesting prospect as it appears to be on strike with the Columbia River mines property to the north-west. Columbia River Mines was in operation during the 1970's and shipped lead-silver concentrates to the smelter.

GEOLOGY

The claim area is in the Purcel Range, and was mapped by J.E. Reesor, (G.S.C.) Map 12, 1957, (Lardeau Half).

The claims are underlain by rock of the Horsethief Creek

Series, which consist of argillite, quartzite, pebble conglomerate, and limestone of the late precambrian age. The mineralization appears to have come from a large stock of granodiorite of the Mesozoic age which lies to the southeast. There are several folds in the area with dips of approximately 25 degrees. The ore body at Columbia River Mines occurs in such a synclinal fold within a limestone band.

The VAD property has few outcroppings due to heavy overburden in the area, and detailed geology in the area being investigated at the present time is next to impossible.

INTRODUCTION

This report sets out the geo-chem extension to the grid established on the VAD -1- mineral claim in the 1988 - 89 season, and the trenching follow-up on the areas indicated by this geo-chem. Thin sections were taken, and many of the samples taken from the 1988 - 89 geo-chem grid were assayed for gold. The results are interesting and are plotted on map 5G of this report.

GEO-CHEM REPORT

The geo-chem done on the property in 1989 was a continuation of the 1988 geo-chem survey. Thirty one samples were taken on the new grid extension and a geo-chem analysis was made for lead. 14 of these samples were then assayed for gold and silver where the the geo-chem analysis indicated lead content above 1000 ppm, or where the formation looked promising. A geo-chem analysis on 62 samples from the 1988 - 9 grid was done to determine if the gold found in the 1989 grid extension extended into the 1988 grid. The resulting geo-chem analysis has been most encouraging and is shown on maps 5L (lead) and 5G (gold). Both lead and gold values on this property seem to be following a NW to NE trend. Map 5G indicates that gold values should be found in the soils to the NW and SE of the present area of exploration.

All samples were taken from the B zone, at a depth of 25 to 35 cm. The samples were assayed at Loring Laboratories Ltd. in Calgary, Alberta. An 80 mesh screen was used with all samples. The analysis was done by hot acid digestion and atomic absorption spectroscopy. The field sampling was done by James Adamson and William van der Lee. Standard geo-chem bags were used as supplied by Loring Laboratories. All bags were marked and tied at the sample location. All samples were paid for by James Adamson. The sampling was done on June 28, Aug. 18-19, and Sept. 16-17.

TRENCHING REPORT AND RESULTS

Trenching was done at four locations where the geo-chem indicated strong mineralization. These were located on the geo-chem grid at 1100S-200W, 1100S-135W, 950S-265W, and 950S-300W. All the trenches are a widening of existing trails. This allows us to have about a 4 meter shoulder on the bank side of the trail with only about a 2 to 3 meter widening of the road surface. At about 4 meters down on the bank side of the trail at the 1100S-200W, location on the grid, a 5cm vein of quartz and arsenopyrite was exposed which showed values of .572 to 1.766 ozs in gold per ton. A similar trench at 1100S-135W, encountered a 2.5cm vein carrying 108 ozs of silver and .118 ozs of gold per ton. Both these veins are in pyritic slate zones, each badly weathered and about 6 meters wide. Trenches at the other two 950W locations mentioned above exposed the same pyritic slate zones. The trenching was done on Sept. 16th, 1989 by a D6 cat.

Two Thin Sections were taken from sample of the 5cm vein located at 1100S-200W to determine what mineral the gold is associated with. A copy of these results are included in the Assay Section of this report.

A semi-quantitative spectrographic analysis was done on a sample taken from the pyritic shale zone at 1300S-75W to determine the minerals present. This analysis is included in the Assay section of this report. It is interesting to note the amounts of Cu, Pb, Ag, As, Sb, Cr and W that are present.

CONCLUSIONS AND RECOMMENDATIONS

The mineralized zone seems to indicate a complex ore of many possibilities. However at present I would recommend the greater portion of all future work should be concentrated on determining the extent of the gold in the soils, and then using geophysical means to find anomalous zones for drill targets. The present geo-chem grid results indicate good gold values in the soils over an area some 150 meters wide and 200 meters long, showing some strength in all directions on various lines. The geo-chem should be extended on all grid lines where gold values are still in evidence. Following the NW - SE strike of the mineralized zone the gold values should be determined on the 400S, 600S, 800S, 1600S, 1800S and 2000S grid lines in the 1990 season. This should be followed up by magnetometer and E.M. surveys. Depending on the results of these surveys other instrumentation may be called for before drill targets can be decided on.

C E R T I I C A T E

This is to certify that I, Bruce H. vander Lee,

1. Am a resident of Calgary, Alberta, and live at # 1100
1122 - 4th Street, S.W. T2R 1M1.
2. Am a graduate of the University of Alberta, B. Sc. in
Mining Eng. (1979)
3. Am a Member of APEGGA.
4. Have no interest direct or indirect in the properties
known as the VAD Claim.
5. Have authorized this report after examination of the
field data and the G.S.C. reports pertaining to the
area.

B.H. v d L, P. Eng May 30, 1990
Bruce H. van der Lee, P. Eng.

STATEMENT OF COSTS FOR THE VAD I CLAIM, (20 UNITS) FOR 1989 - 90.

Claim VAD - 20 Units.

MAP No. 82K/15W

Mi. Rec. 057706S

Rec. No. 1893

The above Claim was recorded at Golden, B.C., on July 6/1988.

Geo-Chem and Rock Assays	788.75
Thin Section Analysis	245.95
Labor:- Geo-Chem, Hand Trenching etc. 3.5 days @ 8.00 hr..	672.00
Labor to assist "Cat" D6 Trenching, 2 men, 10 hrs	160.00
Trenching with D6 "Cat" 10 hrs at 68.00 hr	680.00
Geologist 1 day	250.00
Preparing Report and recording Geo-Chem	250.00
Board:- 16 man days @ 15.00 per day	275.00
Geo-chem bags and supplies	40.00
Chain saw:- 8.00 day 5 days	40.00
4 X 4 35.00 per day, 10 days	350.00
Travel in B.C. 45.00 per trip - 4 trips	<u>190.00</u>
Total Costs	3941.70

SUMMARY OF WORK DONE ON VAD 1 MINERAL CLAIM FOR 1989 - 90.

Geo-Chem sampling was done on portions of units 0-1S-1E, 1S-2S-1E, and 1E-1S-2E. The survey covered portions of about 75 hectares. A Geo-Chem Analysis was done on 34 samples for Pb, and 59 samples for Au.

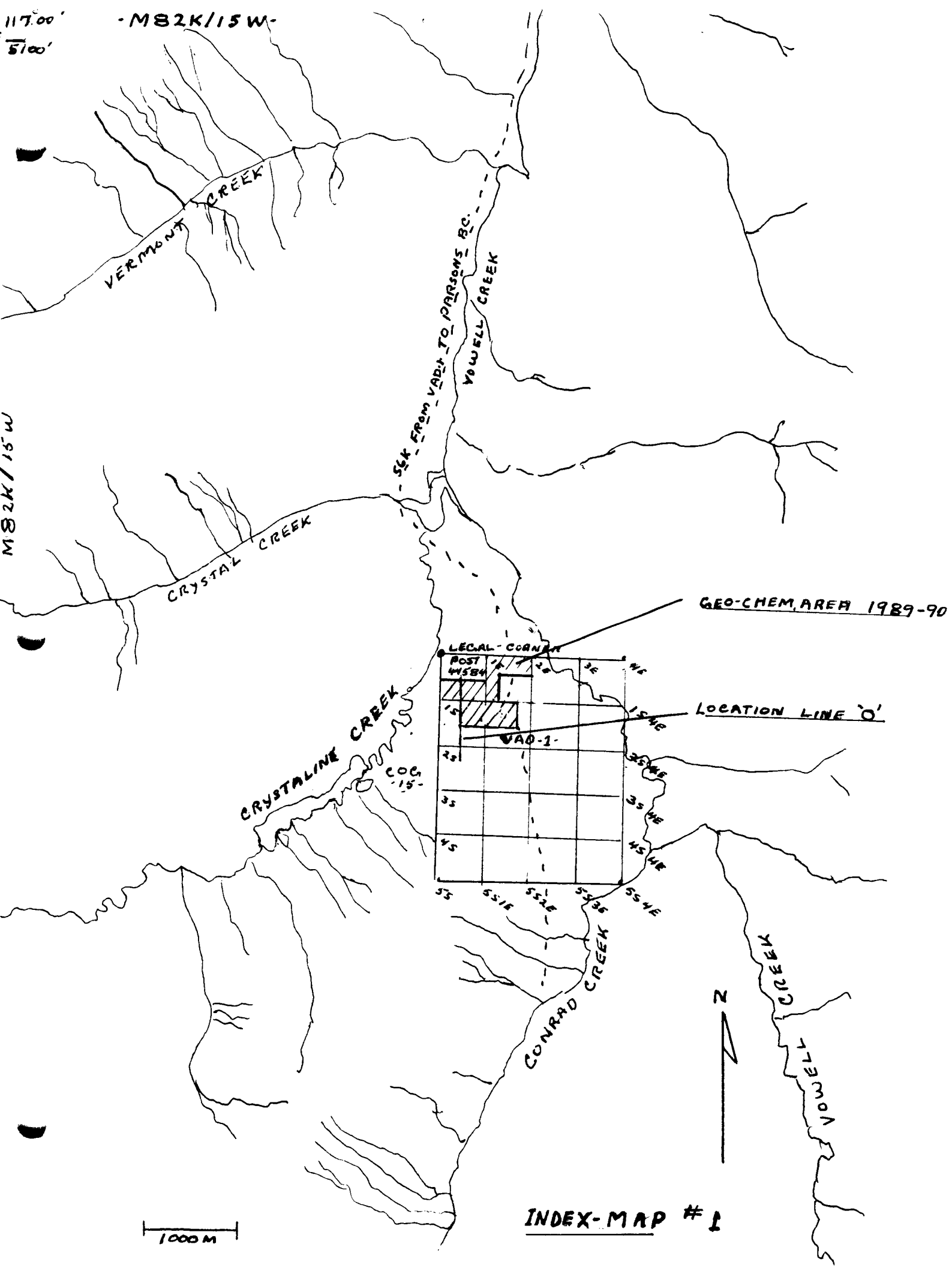
13 samples were Assayed for Au, 11 for Ag, and 8 for Pb.

Thin sections were taken from vein material at 1100S - 135W, and examined by Vancouver Petrographics Ltd. Their detailed analysis is included in this report.

Four trenches were excavated by a D6 "Cat" where geo-chem sampling and considerable hand trenching indicated interesting mineralization. Each trench is approximately 10 meters long and about four meters wide, to expose one side wall from 3 to 4 meters high in the mineralized zones.

117.00' -MS2K/15W-
5100'

MS2K/15W



GEO-CHEM. AREA 1989-90

LEGAL CORNER
POST
MS2K

LOCATION LINE 'O'

CRYSTALLINE CREEK
COG
15'

CONRAD CREEK

VOWELL CREEK

1000M

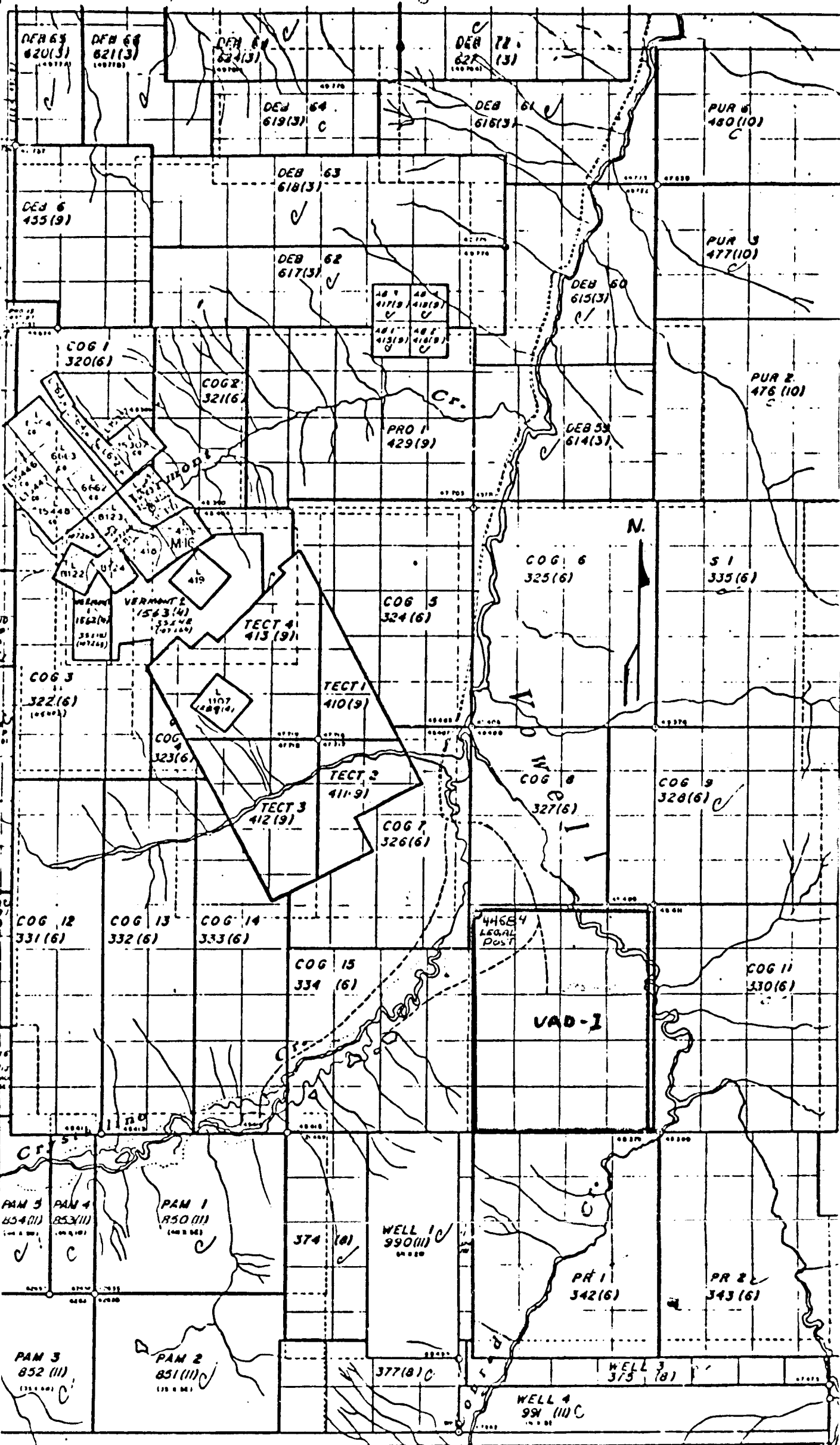
INDEX-MAP #1

117°00'

51°00'

M82K/15W

(FOR PLACER SEE P 82K/15W)



6

5

4

1000 M

MAP # 2 CLAIM MAP

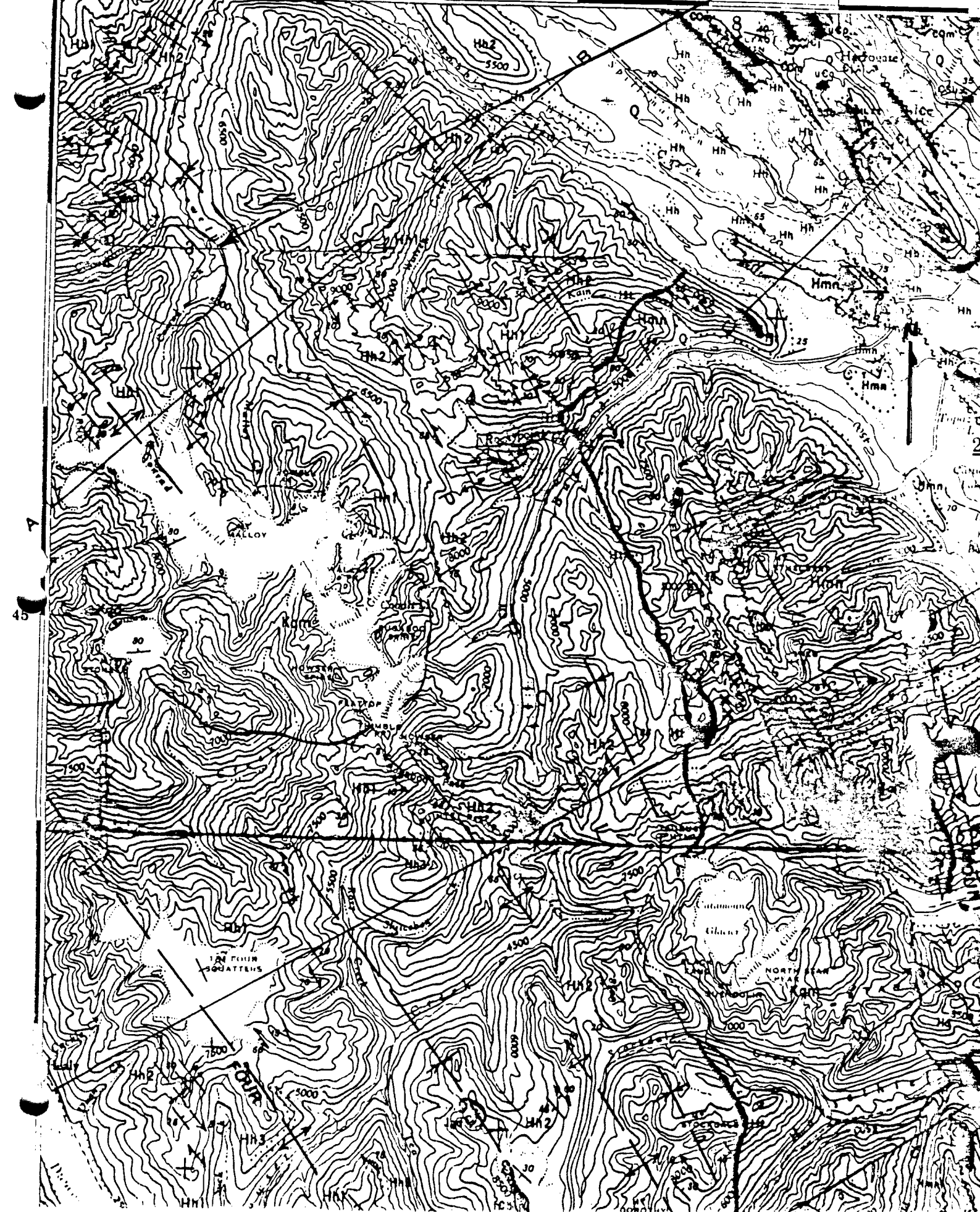
117°00'

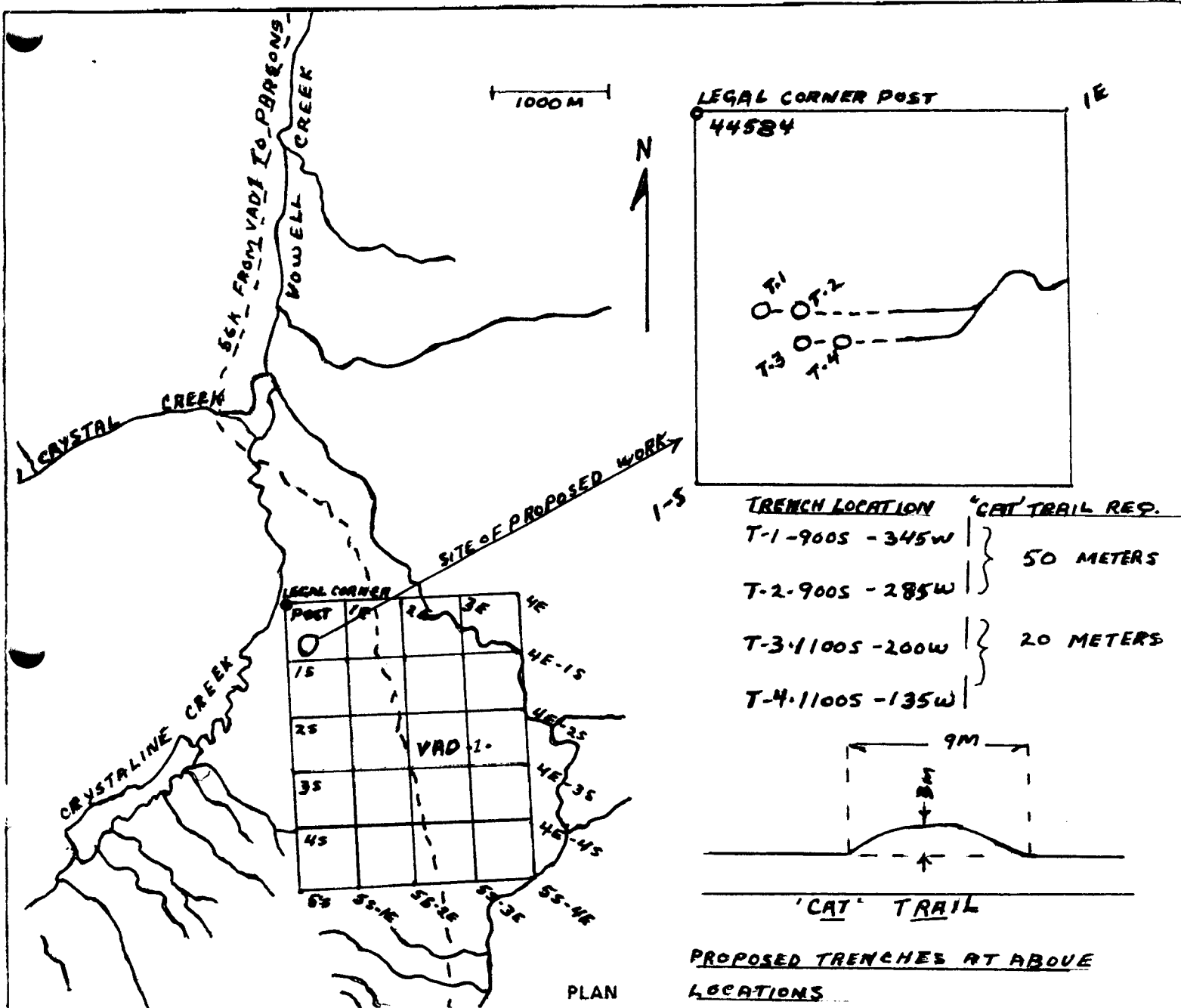
GEOLOGICAL MAP # 3 45'

4000M

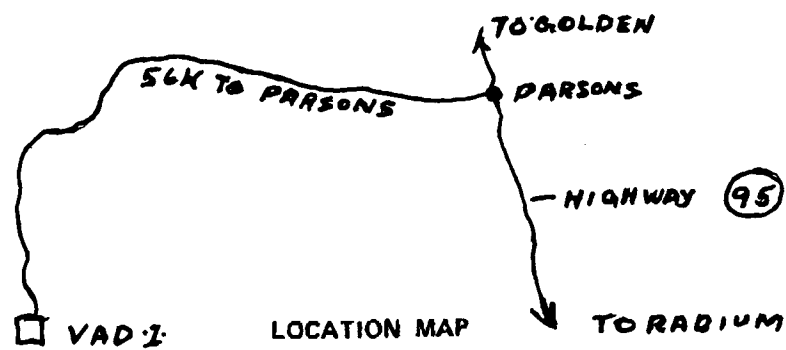
VAD CLAIM

51°00'





Indicate claim boundaries, permanent watercourses, access road and distance to nearest town, proposed surface disturbances including roads, test pits, trenches, portals, drill sites, and camp sites.



LOCATION MAP Show nearest town and access road.

MAP # 4.



Vancouver Petrographics Ltd.

JAMES VINNELL, Manager
JOHN G. PAYNE, Ph.D. Geologist
CRAIG LEITCH, Ph.D. Geologist
JEFF HARRIS, Ph.D. Geologist
KEN E. NORTHCOTE, Ph.D. Geologist

P.O. BOX 39
8080 GLOVER ROAD,
FORT LANGLEY, B.C.
VOX 1J0
PHONE (604) 888-1323
FAX. (604) 888-3642

Report for: **Jim Adamson**,
539 - 47 Ave. S.W.,
CALGARY, Alberta, T2S 1C5
and: **John Carter**,
4019 Dalarna Bay, N.W.,
CALGARY, Alberta (403-288-8622)

Invoice 8697
December 1989

Samples: CC #89-1, -2

Summary:

The two samples are similar. They consist of quartz-sulfide-sulfosalt veins dominated by quartz. Abundant reflective minerals include a Pb-Sb sulfosalt of uncertain composition (Mineral A), sphalerite (with minor chalcopyrite inclusions), galena, arsenopyrite and pyrite. A second phase intergrown with Mineral A is of uncertain composition; it may be galena. Native gold and minor electrum occur mainly in fractures in arsenopyrite, in part with Mineral A. Other occurrences are on the border of pyrite and on the border of sphalerite-arsenopyrite. Secondary minerals include an unknown material secondary after Mineral A, anglesite after galena, and covellite. The presence of covellite suggests that Mineral A may also contain minor copper.

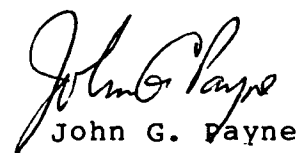
Photographs were taken to illustrate textures, with emphasis on those of native gold and electrum.

John G. Payne
604-986-2928

LIST OF PHOTOGRAPHS

(Number of photo refers to number of negative and number on reverse of print)

Photo	Sample	Description
1	1	native gold in fracture in arsenopyrite, minor Mineral A (grey), quartz (black). Length of photo: 0.95 mm (158X)
2	1	native gold, Mineral A and quartz in fracture in arsenopyrite. Length of photo: 0.95 mm (158X)
3	1	ragged arsenopyrite grains surrounded by Mineral A, altered to secondary minerals including minor covellite. Length of photo: 0.95 mm (158X)
4	1	sphalerite with minor inclusions of chalcopyrite; Mineral A intergrown with less mineral B (silvery), cubic pyrite grain on contact. Length of photo: 0.95 mm (158X)
5	2	Mineral A altered strongly to secondary material of uncertain composition. Length of photo: 0.95 mm (158X).
6	2	Galena in quartz. Length of photo: 0.95 mm (158X).
7	2	Native gold on border of pyrite grain with sphalerite, Mineral A, quartz, arsenopyrite. Length of photo: 0.95 mm (158X)
8	2	Three grains of native gold and small grain of Mineral A(?) on border of arsenopyrite and sphalerite. Length of photo 0.24 mm (620X).
9	2	Electrum in fracture in arsenopyrite. Length of photo: 0.95 mm (158X)
10	2	(same as 9) Length of photo: 0.24 mm (620X)
11	2	Intergrowth of galena-Mineral A with pyrite and minor arsenopyrite. Length of photo: 0.95 mm (158X)
12	2	Mineral A altered to secondary minerals including moderately abundant covellite. Length of photo: 0.95 mm (158X)
13	1	(same as Photo 2) Length of photo: 0.24 mm (620X)


John G. Payne

Sample CC #89-1

Vein: Quartz- Pb-Sb sulfosalts-Sphalerite-Arsenopyrite-(Pyrite)-Native Gold

The vein is dominated by quartz and patches of sulfides/sulfosalts, dominated by one of sphalerite, Pb-Sb sulfosalt, and arsenopyrite, with minor galena(?) and pyrite and a trace of native gold.

quartz	55-60%
Mineral A (Pb-Sb-S)	15-17
sphalerite	7- 8
arsenopyrite	7- 8
galena (?)	2- 3
pyrite	1- 2
sericite	0.3
chalcopyrite	minor
native gold	trace
anglesite	2- 3
covellite	trace

Quartz forms aggregates of equant grains averaging 0.3-1 mm in size.

Sericite forms a few patches up to 0.5 mm across of subhedral flakes averaging 0.1 mm in size.

One Pb-Sb sulfosalt, Mineral A, is dominant. It forms patches up to several mm across composed of granular grains averaging 0.1-0.5 mm in size. It is slightly creamier in color than galena, has weak bireflectance and moderately strong anisotropism with weak blue colors. (The colors appear to be too pale for stibnite). A second phase, Mineral B, is intergrown intimately with the first in some patches as subparallel, slightly to moderately elongate grains averaging 0.05 mm in size. It may be galena or a second sulfosalt. It is somewhat softer than Mineral A.

Sphalerite forms anhedral patches up to a few mm across. It is light orange in color and contains minor exsolution inclusions of chalcopyrite averaging 0.01-0.03 mm in size, with a few elongate grains of chalcopyrite up to 0.1 mm long.

Arsenopyrite forms clusters up to several mm across of subhedral to euhedral grains averaging 0.1-0.7 mm in size. Arsenopyrite surrounded by antimony sulfosalts commonly shows corroded outlines.

Pyrite occurs with arsenopyrite as grains averaging 0.1-0.5 mm in size, with a few up to 1 mm across.

Native gold (medium yellow) forms an anhedral, equant grain 0.1 mm across intergrown coarsely with antimony sulfosalts in an interstitial patch between arsenopyrite grains. Nearby it forms an elongate patch 0.3 mm long and 0.02 mm wide in a fracture in arsenopyrite, and a small grain nearby.

Tetrahedrite forms a grain 0.1 mm across on the border of sphalerite and Mineral A.

Anglesite (Pb-sulfate) forms a few patches up to 1.5 mm across in quartz on the border of patches of Mineral A and sphalerite, or interstitial to coarse arsenopyrite.

Covellite occurs in a few patches averaging 0.05-0.1 mm in size with anglesite. Its presence suggests that Mineral A or B may contain some copper.

Sample CC #89-2**Vein: Quartz- Pb-Sb sulfosalt-Sphalerite-
Galena-Pyrite-Arsenopyrite-Native Gold-Electrum**

This sample is very similar to Sample #89-1, but contains moderately abundant galena. Native gold and electrum occur in a few grains associated with arsenopyrite and lesser commonly with sphalerite.

quartz	65-70%
Mineral A (Pb-Sb-S)	10-12
galena	5- 7
pyrite	4- 5
sphalerite	4- 5
arsenopyrite	2- 3
Mineral B	1
chalcopyrite	minor
native gold	trace
electrum	trace
anglesite	3- 4
covellite	minor

Quartz forms aggregates of grains averaging 0.5-3 mm in size.

Mineral A occurs in patches up to several mm across as granular aggregates averaging 0.1-0.3 mm in grain size. Alteration is slight to moderate to non-reflective material of unknown composition. A few patches up to a few mm across consist of extremely fine to very fine grained intergrowths of Mineral A and Mineral B (possibly galena) as in Sample #89-1.

Sphalerite forms patches up to a few mm across. Some contain scattered exsolution blebs and lensy inclusions of chalcopyrite, whose grains average 0.02-0.05 mm in size.

Galena forms a few patches up to 2 mm across. Locally it forms coarse intergrowths with Mineral A. It is altered in some patches moderately to strongly to anglesite.

Arsenopyrite forms subhedral grains averaging 0.2-0.5 mm in size.

Pyrite forms a few subhedral megacrysts up to 2.5 mm long, and moderately abundant, commonly anhedral grains intergrown with arsenopyrite and mineral A.

Native gold forms three equant grains from 0.003-0.01 mm in size on the border of an arsenopyrite and sphalerite grain. One native gold grain 0.03 mm X 0.01 mm occurs on the border of a pyrite grain 0.15 mm across. **Electrum** (pale yellow) occurs along a fracture in an arsenopyrite grain. Two grains are present, one is 0.04 mm long by 0.005 mm wide, and the other is 0.025 mm long by 0.002 mm wider.

Covellite forms extremely fine grained aggregates intergrown with anglesite along the border of some patches of Mineral A and galena.

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
105

File No. 32694
Date August 25, 1989
Samples Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.

%
Pb

"Assay Analysis"

900S + 285W	.80
1100S + 135W	11.40
1100S + 200W	.55
1100S + 215W	.38

I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


ANALYST

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T 1C5

File No. 32694
Date August 25, 1989
Samples Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 2

SAMPLE NO.

PPM
Pb

Geochemical Analysis

1N	12
1 + 100'S	7
1 + 150'S	11
1 + 200'S	16
1 + 250'S	13
1 + 300'S	16
1 + 350'S	12
1 + 400'S	20
1 + 450'S	19
1 + 500'S	11
1 + 550'S	11
1 + 600'S	10
1 + 650'S	12
1 + 700'S	19
1 + 750'S	12
900S + 200W	10
900S + 210W	16
900S + 285W	+1000
900S + 300W	166
1000S + 175W	137
1000S + 250W	140
1100S + 125W	14
1100S + 135W	+1000
1100S + 200W	+1000
1100S + 215W	+1000

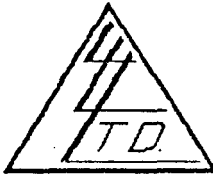
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
J 1C5

File No. 32694
Date August 25, 1989
Samples Rock



Certificate of Assay LORING LABORATORIES LTD.

Page # 3

SAMPLE NO.

PPM
Pb

Geochemical Analysis

1300S + 100W

720

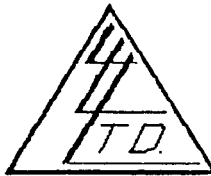
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
J 1C5

File No. 32694
Date August 25, 1989
Samples Soil



Certificate of Assay

LORING LABORATORIES LTD.

Page # 4

SAMPLE NO.

OZ./TON
GOLD

OZ./TON
SILVER

"Assay Analysis"

1100S + 135W

.050

23.02

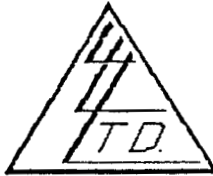
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


ANALYST

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T2 1C5,

File No. 32694-2
Date August 31, 1989
Samples Soil



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON
GOLD

OZ./TON
SILVER

"Assay Analysis"

1100S + 200W

.031

5.41

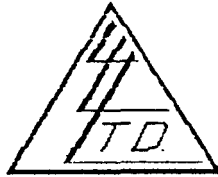
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T 1C5

File No. 32694-1
Date September 15, 1989
Samples Soil



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON
GOLD

OZ./TON
SILVER

"Assay Analysis"

900S + 285W

.004

1.30

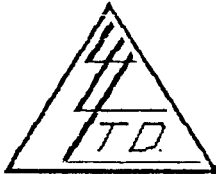
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
1C5

File No. 32791
Date September 29, 1989
Samples Rock



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

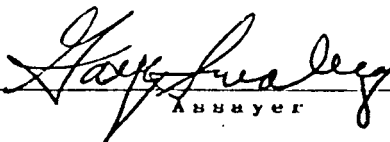
SAMPLE NO.	OZ./TON GOLD	OZ./TON SILVER	% Pb
------------	-----------------	-------------------	---------

"Assay Analysis"

950 LINE EAST TRENCH BOTTOM CAT RD CENTRE OF TRENCH IN WEATHERED VEIN	.006	1.52	.53
EAST CUT ON 950 TRACTOR LINE - ROCK SAMPLE	.004	.88	.14
ROCK SAMPLE CENTRE OF EAST TRENCH 1100 RD CALENA VEIN	.006	1.30	2.62
1100+135'W 6'DEEP SMALL VEIN	.118	108.72	55.18
1100' LINE WEST TRENCH CALENA VEIN	.570	15.72	26.50
950 LINE EAST TRENCH BOTTOM CAT ROAD CENTRE 1' FROM BASE SHALE	-	-	.82
CENTRE OF TRENCH FROM CENTER OF RD. SHALE	-	-	.28

I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

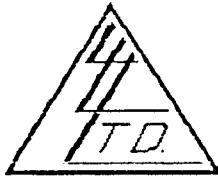
Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.



Assayer

To: MR. J.S. ADAMSON,
539 47th Avenue S.W.,
Calgary, Alberta
T1C5

File No. 32791
Date September 29, 1989
Samples Shale



Certificate of Assay LORING LABORATORIES LTD.

Page # 2

SAMPLE NO.

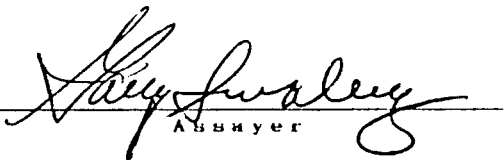
PPM
Pb

Geochemical Analysis

950 LINE EAST TRENCH BOTTOM CAT RD. CL.URE 1' FROM BASE SHALE	+1000
CENTER OF TRENCH FROM CENTER OF RD. SHALE	+1000
950 LINE WEST TRENCH BOTTOM CAT RD. CENTER @ 36M SHALE	144
WEST END OF TRENCH @ 39M SHALE	197
1100 LINE EAST TRENCH WEATHER SHALE	134

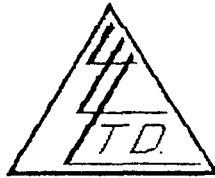
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


ANALYST

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T-1C5

File No. 32932
Date November 21, 1989
Samples Rock



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
------------	-----------------	-------------------	---------	---------

"Assay Analysis"

# 1	.889	10.07	25.05	8.53
-----	------	-------	-------	------

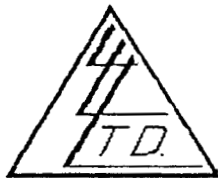
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Residues retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


ASSAYER

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
72J 1C5

File No. 31919-1
Date December 5, 1989
Samples _____



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

PPB
Au

Geochemical Analysis

1-HR	30
2-HR	67
3-HR	10
4-HR	NIL
5-HR	20
1200S 85 W	263
1200S 90 W	92
1200S 100 W	125
1200S 110 W	425
1200S 115 W	107
1200S 120 W	35
1200S 150 W	146
1200S 200 W	+1000

I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

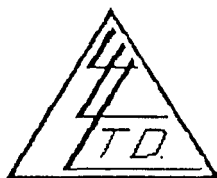
Subjects retained one month.
Slips retained one month
unless specific arrangements
are made in advance.



ANALYST

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
TS 1C5

File No. 33007
Date December 6, 1989
Samples Rock



Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON
GOLD

OZ./TON
SILVER

"Assay Analysis"

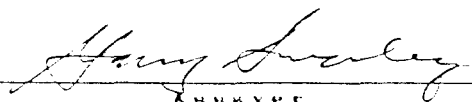
1 Rock

1.766

12.13

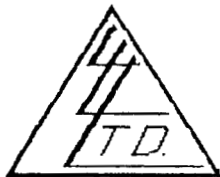
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Residuals retained one month.
Receipts retained one month
unless specific arrangements
are made in advance.


ANALYST

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
2J 1C5

File No. 31919-2
Date December 6, 1989
Samples Pulp



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.

PPB
Au

Geochemical Analysis

100S- 800E	NIL
100N- 800E	NIL
300N- 800E	NIL
400S- 100E	NIL
400S- 200E	NIL
400S- 400E	NIL
400S- 600E	40
400S- 800E	NIL
400N- 900E	NIL
400N-1100E	NIL
400N-1300E	NIL
400N-1500E	NIL
400N-1700E	40
400N-1900E	NIL
800S- 0	80
800S- 50W	285
800S- 100W	NIL
800S- 200W	80
800S- 300W	NIL
800S- 400W	NIL
800S- 500W	10
800S- 600W	NIL
800S- 700W	NIL
1200S- 50E	35
1200S- 150E	20
1200S- 250E	75
1200S- 225W	135
1450S+ 0W	35
1450S+ 25W	80
1450S+ 50W	10

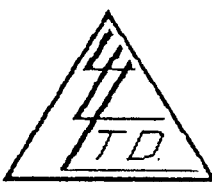
I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Subjects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. J.S. ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
1C5

File No. 31919-2
Date December 6, 1989
Samples Pulp



Certificate of Assay LORING LABORATORIES LTD.

Page # 2

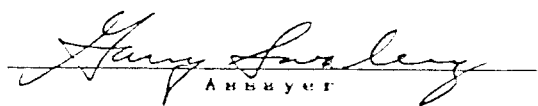
SAMPLE NO.

PPB
Au

1450S+ 75W	NIL
1450S+ 100W	15
1450S+ 125W	10
1450S+ 150W	30
1450S+ 25E	NIL
1450S+ 50E	10
1450S+ 75E	NIL
1450S+ 100E	25
1450S+ 125E	NIL
1450S+ 150E	NIL
5-LR	NIL
6-LR	10
7-LR	10
8-LR	15
9-LR	60
10-LR	30

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

jects retained one month.
pulp retained one month
unless specific arrangements
are made in advance.


ANALYST

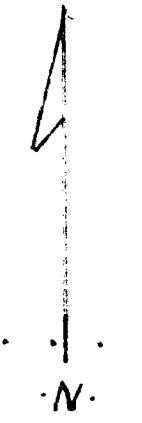


GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,035

AU
VAD-1 CLAIM GEO-CHEM SURVEY
MAP # 50 SEE INDEX MAP # 3A
ALL READINGS - GOLD PPB. (ASSAY @)
AVERAGE NORM. AU UNDER 50ppb = 2ppb
1989-90 GEO-CHEM AND ROCK ASSAYS "UNDERLINED"

100 FT.
ADM

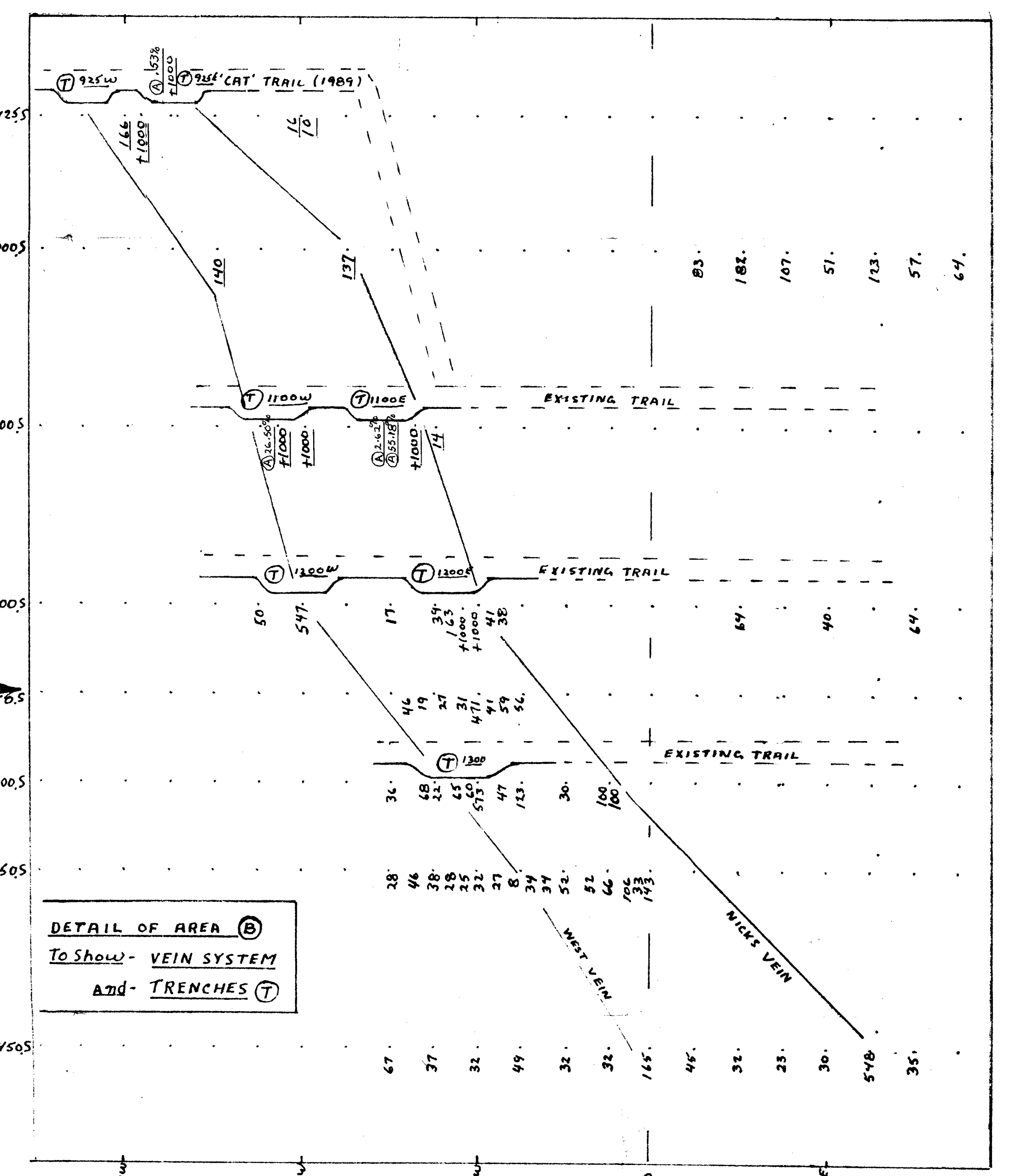
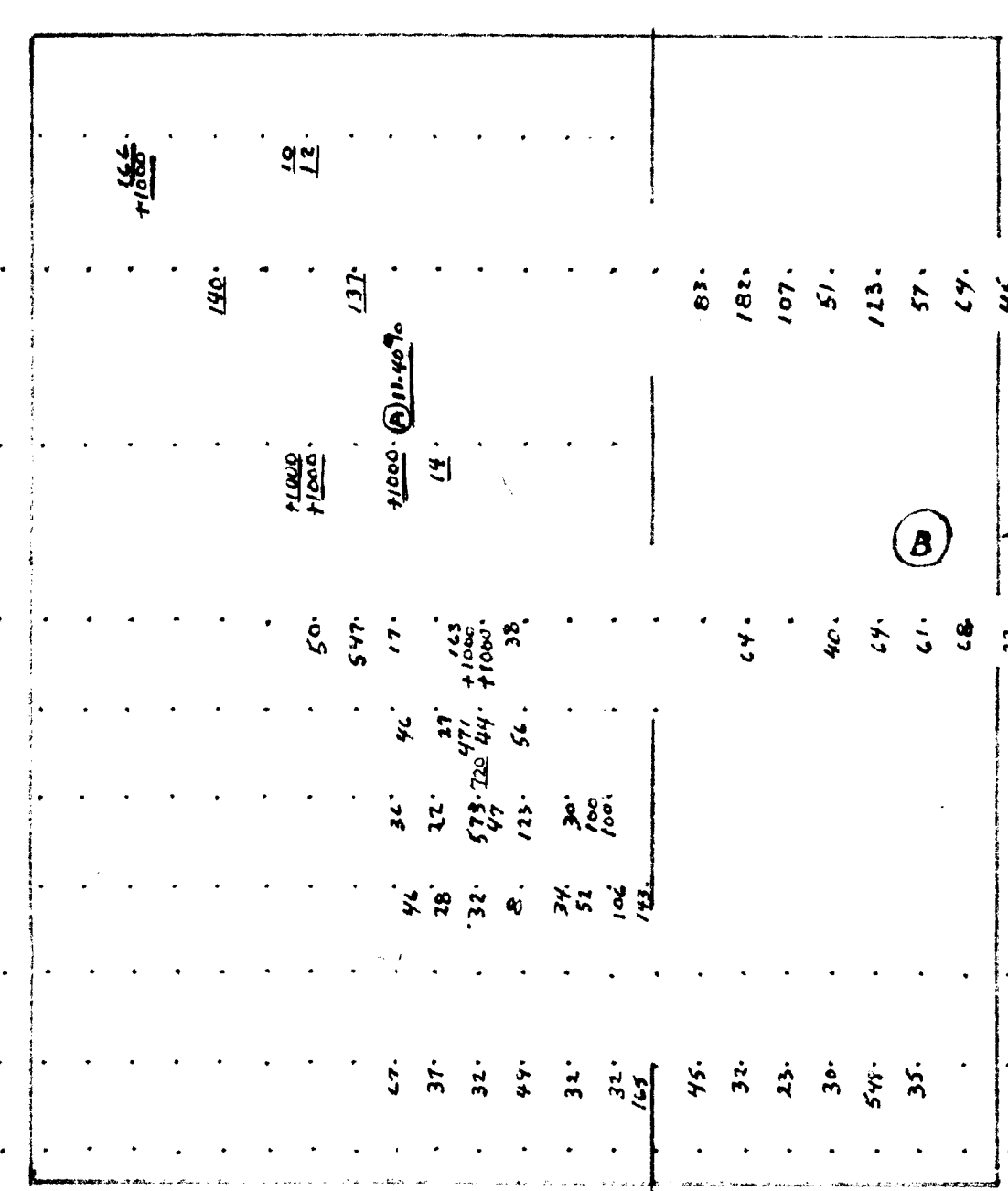


1000 N
800 N
600 N
400 N
200 N
05
200 S
400 S
600 S
800 S
1000 S
1200 S
1400 S
1600 S
1800 S
2000 S
2200 S

I-E VAD-1

I-E

I-S



DETAIL OF AREA B
TO SHOW - VEIN SYSTEM
AND TRENCHES

50003

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,035

Pb
VAD-1 CLAIM GEO-CHEM SURVEY
MAP # 5L SEE INDEX MAP # 3A
ALL READINGS - LEAD ppm. (ASSAY - Q)
AVERAGE NORM Pb UNDER 70ppm = 39 ppm
1989-90 GROUND AND ROCK ASSAY UNDERGROUND

100 FEET
30 M

N