

GEOLOGICAL & GEOCHEMICAL REPORT ON THE GOLDBELT II AND GAMBLE  
CLAIMS

CLAIMS - GOLDBELT II - 20 units - Record # 1949  
GAMBLE - 10 UNITS - RECORD - # 2026

NELSON MINING DIVISION

N.T.S. - 82 F/3

Latitude - 49 degrees, 11 minutes  
Longitude - 117 degrees, 06 minutes

Owner of claims - Goldrich Resources Inc.  
1730, 40 West Georgia St.  
Vancouver, B.C.  
V6B 5A1

Operator of claims - Lightning Minerals Inc.  
202, 7608 - 103 St.  
Edmonton, Alberta  
T6E 4Z8

Author - J. D. Ellerington

Date - November 13, 1987

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,728

1 Part 4 of 9

FILMED



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) <b>GEOLOGICAL, GEOCHEMICAL</b>	TOTAL COST <b>7879.95</b>
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AUTHOR(S) **J. D. ELLERINGTON** SIGNATURE(S)

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **OCT. 15/87, NOV. 19/87** YEAR OF WORK **1987**

PROPERTY NAME(S) **GOLDBELT 2, GAMBLE**

COMMODITIES PRESENT **GOLD**

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION **NELSON** NTS **82 F/3**

LATITUDE **49° 11'** LONGITUDE **117° 06'**

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

**GOLDBELT 2, GAMBLE**  
**1949 2026**

OWNER(S)  
(1) **GOLDRICH RESOURCES INC.** (2)

MAILING ADDRESS  
**1730 - 40 WEST GEORGIA ST.**  
**VANCOUVER, B.C., V6B 5A1**

OPERATOR(S) (that is, Company paying for the work)  
(1) **LIGHTNING MINERALS INC.** (2) **TERRA MINES LTD.**

MAILING ADDRESS  
**202, 7608-103 ST.** ← **SAME**  
**EDMONTON, ALBERTA**  
**T6E 4Z8**

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  
**LOWER CAMBRIAN SEDIMENTS**  
**QUARTZ VEINS**  
**PYRITE**  
**FOLDING, FAULTING.**

REFERENCES TO PREVIOUS WORK  
**MATTHEWS, W.H., GEOL. OF SHEEP CK CAMP., B.C. MINES, BULL. 31**

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)			
Ground	2.7 sq km, 1:2500	GOLDBELT II, GAMBLE	4025.81
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ....)			
Soil	196	" "	3657.04
Silt			
Rock	18	" "	197.10
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)			
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			

TOTAL COST ... 7879.95

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted . . . . . Date	Rept. No. . . . .			Information Class . . . . .

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## GEOLOGICAL & GEOCHEMICAL REPORT ON THE GOLDBELT 2 AND GAMBLE CLAIMS

### I Introduction

The property consists of 32 claim units that were acquired due to their proximity to known gold production in the Sheep Creek area. In the past a limited amount of exploration has been carried out, primarily in the form of physical work. Evidence of a small amount of underground development and trenching by previous owners of the ground exists.

The Goldbelt 2 and Gamble claim groups are situated on the east slope of Reno Mountain, 19 km by road from the village of Salmo. Access to the property is via the Sheep Creek road to the southern claim boundary.

Vegetation on the property ranges from heavy timber at low elevations to alpine meadow near the ridge crests.

Current owner of the property is Goldrich Resources Inc. and current operator is Lightning Minerals Inc..

The Sheep Creek gold camp, in which these claims are located, has a long history of mining activity dating from the late 1800's. The Reno mine located 1 km to the west was one of the major producers in the camp. There has been no known production on the Goldbelt 2 and Gamble claims.

In 1987, Lightning Minerals Inc. initiated a program of geological mapping and soil geochemistry to test a zone of Lower Cambrian sediments in the western portion of the Goldbelt 2 claims and along the boundary between the Goldbelt 2 and Gamble claims. Mapping covered 2.7 square kilometres on a scale of 1:7500 and geochemical work included 196 soil and silt samples and 18 rock chip samples.

The personnel employed on this claim block were P. Hannigan, B. Hitchins, P. Lounsbury, C. Maclean and J. Ellerington. Field work was performed on October 2, 4, 5, 6, 7, 8 & 9, 1987.

### II Detailed Technical Data and Interpretation

#### a. Geology

A small geological mapping and soil sampling program was instigated in an effort to test the property for gold mineralization in the vicinity of a repetition of Lower Cambrian sediments that are the host rock for gold bearing quartz veins in the Sheep Creek area. Objective of the mapping was to define the contacts and examine outcrops

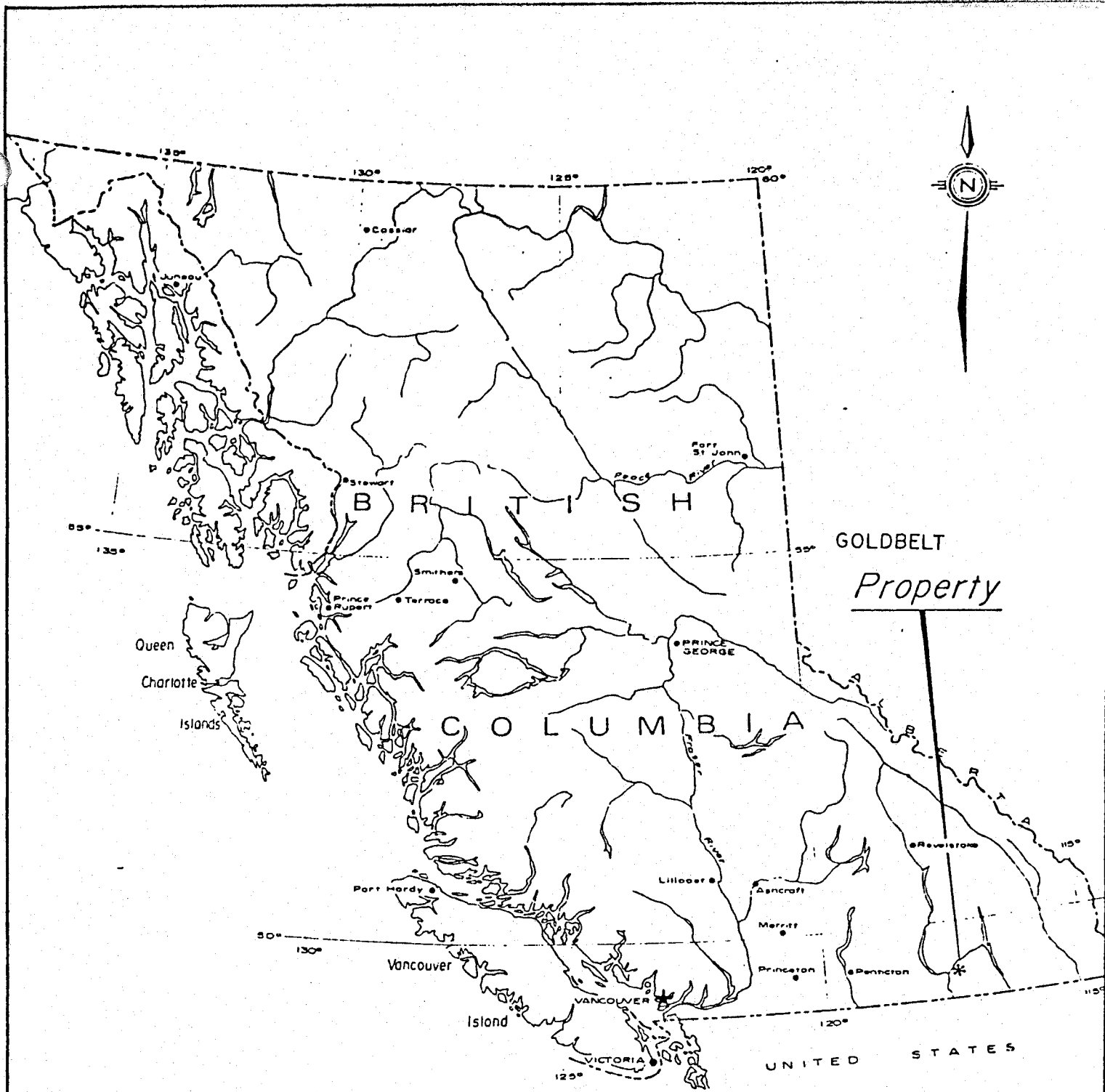
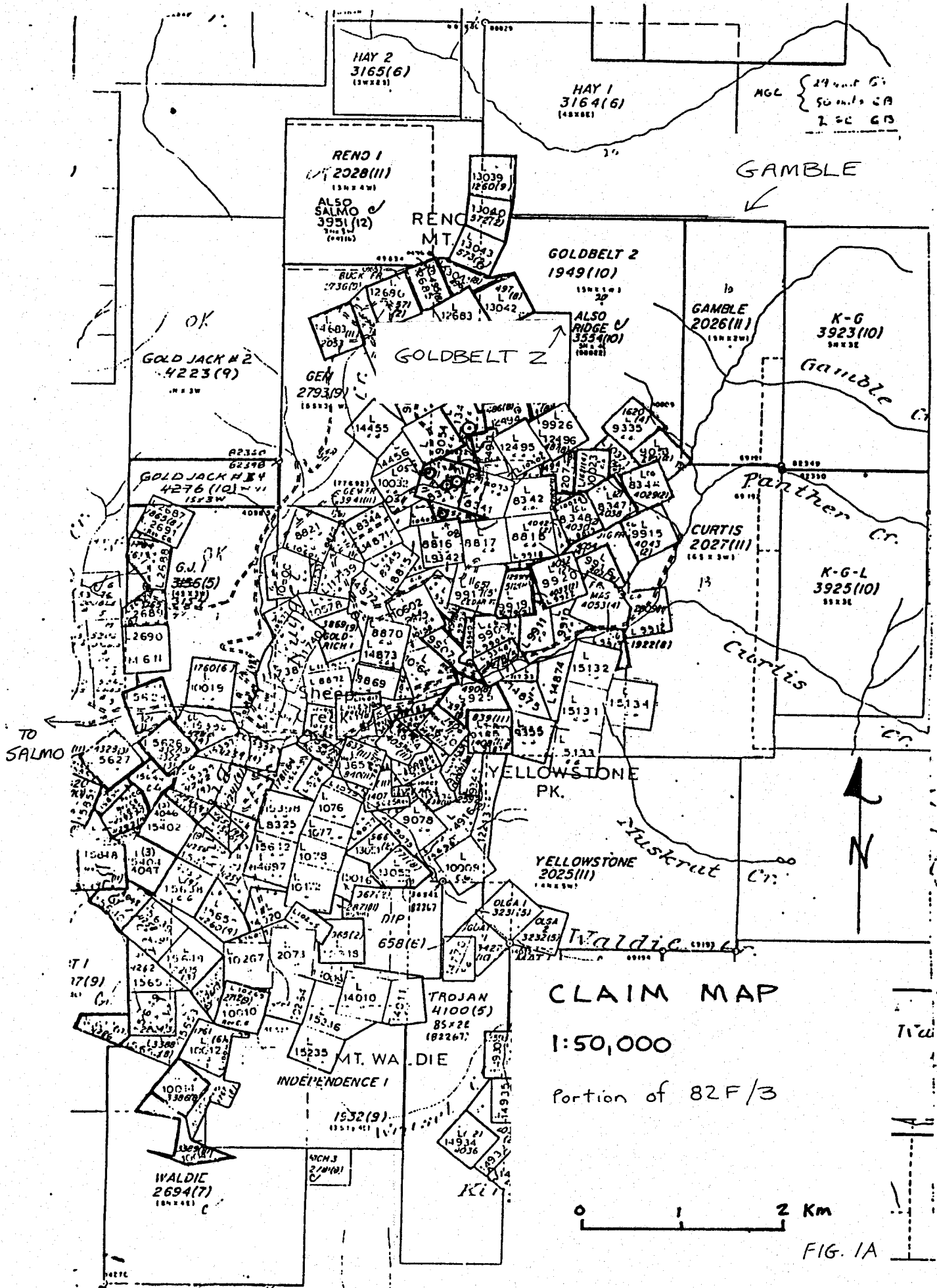


FIGURE 1

GOLDBELT MINES INC. (N.P.L.)

SHEEP CREEK DISTRICT  
NELSON MINING DIVISION, B.C.

*LOCATION MAP*



for structural or mineralogical indications of economic significance. The purpose of the geochemical program was to test the area for anomalous gold content or other indicator elements.

i. Regional:

The property is situated on the axis and flanks of a major fold referred to as the Sheep Creek Anticline which extends from the northern property boundary south and west for about 20 km. The general area is complexly folded in a series of parallel syncline and anticline features. A sedimentary series forms a belt about 6 km wide in a north-south orientation. This belt has seen extensive gold production along its western boundary from a series of east-west quartz veins.

ii. Property Geology:

The dominant formations underlying the claims are the Cambrian Laib Formation, Reno Formation and the Quartzite Range Formation. These are predominantly composed of quartzites, argillites, phyllites and limestones. Much of the gold production of the Sheep Creek area has taken place in the Nugget and Nevada Members of the Quartzite Range Formation.

Mapping was carried out utilizing aerial photographs for general control. Detail work was carried out using hip chain and compass traverses.

Most outcrop was located on ridges, whereas down-slope the terrain became heavily timbered with limited outcrop. Stream channels also provided a fair degree of bedrock exposure. Sufficient outcrop was located to reasonably define the contact zones between the various formations and members. It was also possible to locate the axis of the Sheep Creek anticline and the Laib syncline. A strong fault referred to as the Weasel Creek Fault, which strikes 020 degrees, was traced across the property. It produces a repetition of a sequence of beds.

A large number of quartz zones were noted, particularly in the Nugget and Nevada Members, although most were of a bedding concordant variety. A few cross-cutting veins were noted as well.

A small adit and dump were located about 500 metres west of Sheep Creek. Orientation of the adit appeared to be 320 degrees, however, no access was possible due to cave-in. Sampling of quartz zones in the area did



not produce any anomalous gold results.

iii. Discussion of Results:

Mapping provided reasonable control on the location of the various geological contacts. Rock samples were not anomalous in gold, silver, lead, zinc, copper or arsenic. It appears that while the favorable rocks from the Sheep Creek mining camp area occur on the claims, there is a missing mineralization control that has resulted in there being no economic occurrences.

b. Geochemistry:

i. Sampling Method:

Soil samples were collected from the B soil horizon with a grub-hoe. Soils were pre-dominantly silts with a rusty brown colour. Samples were collected at 50 metre intervals along several traverse lines in the Sheep Creek valley. In total, 196 samples were collected.

ii. Laboratory Procedure:

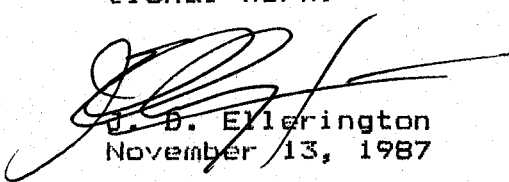
Soil sample analysis was carried out by Rossbacher Laboratory Ltd., 2225 S. Springer Ave., Burnaby, B.C.. Samples were dried at 60 degrees C. and sieved at 80 mesh. Digestion of the samples was by perchloric acid. Analysis was carried out by atomic absorption.

iii. Discussion of Results:

No significant gold anomalies were detected. The other elements are of limited economic concern at the present time. Zinc, lead, copper, silver and arsenic showed only minor fluctuations from background levels.

III Recommendations:

In view of the low order of magnitude of the rock and soil analytical results, additional work on the claims area is of low priority. The western portion of the Goldbelt 2 claims may be more favorable than the Sheep Creek valley for additional work.

  
J. B. Ellerington  
November 13, 1987

REFERENCES

Geological Survey of Canada

1965: Geology, Salmo, B.C., 1:63,360; Map 1145A

Matthews, W.H.

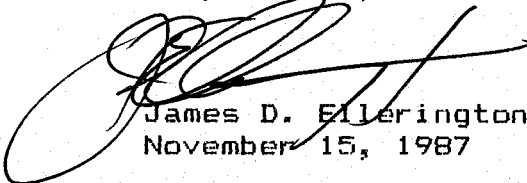
1953: Geology of the Sheep Creek Camp, B.C. Department of Mines, Bulletin No. 31.

STATEMENT OF QUALIFICATIONS

I, James Ellerington, do hereby certify that:

1. I am a geologist employed by Lightning Minerals Inc., 202, 7608 - 103 Street, Edmonton, Alberta, T6E 4Z8.
2. I am a graduate of the University of Alberta with a BSc Degree in Geology (1967).
3. I have practised my profession since graduation. My previous employers include: Great Plains Development of Canada Ltd., United Keno Hill Mines Ltd., Eldorado Nuclear Ltd., Saskatchewan Mining Development Corporation and Terra Mines Ltd..
4. This report is based on field exploration work carried out in the fall of 1987. Research of government reports was also involved.
5. I have no interest, directly or indirectly in the property described in the report.

Respectfully submitted



James D. Ellerington  
November 15, 1987

APPENDIX 1

ITEMIZED COST STATEMENT

(total program)

Wages For Field Work:

James Ellerington (geologist)	3 days	\$150/day	\$ 450.00
Peter Hannigan (geologist)	9 days	\$150/day	\$1350.00
Erice Hitchins (assistant)	2 days	\$ 90/day	\$ 180.00
Phil Lounsbury (assistant)	4 days	\$ 65/day	\$ 260.00
Carol Maclean (assistant)	4 days	\$ 80/day	\$ 320.00
Gerry Clouthier (supervisor)	1 day	\$200/day	\$ 200.00

Add 4% holiday pay	\$ 118.00
Add 20% burden (management, office, benefits)	\$ 613.60

TOTAL WAGES FOR FIELD WORK      \$3681.60

Wages For Report Preparation:

James Ellerington (geologist)	3 days	\$150/day	\$ 450.00
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Add 4% holiday pay	\$ 18.00
Add 20% burden (management, office, benefits)	\$ 93.60

TOTAL WAGES FOR OFFICE WORK      \$ 561.60

TOTAL WAGES      \$4243.20

Food and Accomodation:

19 man-days at \$40/day	\$ 760.00
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Transportation:

Rental of 4x4 truck, mileage, gas, oil, repairs	
7 days at \$75.00/day	\$ 525.00

Assay Costs:

18 rock geochemical analyses - \$ 10.95/sample	\$ 197.10
196 soil geochemical analyses - \$ 8.95	\$1754.20

Other:

Bags, supplies, shipping, misc.	\$ 400.00
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SUB-TOTAL

\$3638.30

TOTAL EXPENDITURES

\$7879.95

ITEMIZED COST STATEMENT

(October 2 to 6, 1987 portion of total)

Wages For Field Work:

James Ellerington (geologist)	3 days	\$150/day	\$ 450.00
Peter Hannigan (geologist)	4 days	\$150/day	\$ 600.00
Brice Hitchens (assistant)	2 days	\$ 90/day	\$ 180.00
Phil Lounsbury (assistant)	1 day	\$ 65/day	\$ 65.00
Carol Maclean (assistant)	1 day	\$ 80/day	\$ 80.00
Gerry Clouthier (supervisor)	1 day	\$200/day	\$ 200.00

Add 4% holiday pay	\$ 63.00
Add 20% burden (management, office, benefits)	\$ 327.60

TOTAL WAGES FOR FIELD WORK \$1965.60

Food and Accomodation:

10 man-days at \$40/day \$ 400.00

Transportation:

Rental of 4x4 truck, mileage, gas, oil, repairs  
4 days at \$75.00/day \$ 300.00

Assay Costs:

10 rock geochemical analyses - \$ 10.95/sample \$ 109.50  
49 soil geochemical analyses - \$ 8.95 \$ 438.55

Other:

Bags, supplies, shipping, misc. \$ 200.00

SUB-TOTAL \$1448.05

TOTAL EXPENDITURES \$4465.85

ITEMIZED COST STATEMENT

(October 7 - November 17, 1987 portion of total)

Wages For Field Work:

Peter Hannigan (geologist)	5 days	\$150/day	\$ 750.00
Phil Lounsbury (assistant)	3 days	\$ 65/day	\$ 195.00
Carol Maclean (assistant)	3 days	\$ 80/day	\$ 240.00

Add 4% holiday pay	\$ 55.00
Add 20% burden (management, office, benefits)	\$ 285.40

TOTAL WAGES FOR FIELD WORK      \$1716.00

Wages For Report Preparation:

James Ellerington (geologist)	3 days	\$150/day	\$ 450.00
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Add 4% holiday pay	\$ 18.00
Add 20% burden (management, office, benefits)	\$ 93.60

TOTAL WAGES FOR OFFICE WORK      \$ 561.60

TOTAL WAGES      \$2277.60

Food and Accomodation:

9 man-days at \$40/day	\$ 360.00
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Transportation:

Rental of 4x4 truck, mileage, gas, oil, repairs	
3 days at \$75.00/day	\$ 300.00

Assay Costs:

8 rock geochemical analyses - \$ 10.95/sample	\$ 87.60
147 soil geochemical analyses - \$ 8.95	\$1315.65

Other:

Bags, supplies, shipping, misc.	\$ 200.00
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SUB-TOTAL      \$2263.25

TOTAL EXPENDITURES      \$4540.85

ITEMIZED COST STATEMENT

(geochemical share of total program)

Wages For Field Work:

Peter Hannigan (geologist)	2 days	\$150/day	\$ 300.00
Phil Lounsbury (assistant)	4 days	\$ 65/day	\$ 260.00
Carol Maclean (assistant)	4 days	\$ 80/day	\$ 320.00
Gerry Clouthier (supervisor)	.25 day	\$200/day	\$ 50.00

Add 4% holiday pay	\$ 37.20
Add 20% burden (management, office, benefits)	\$ 193.44

TOTAL WAGES FOR FIELD WORK      \$1160.64

Wages For Report Preparation:

James Ellerington (geologist)	1 day	\$150/day	\$ 150.00
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Add 4% holiday pay	\$ 6.00
Add 20% burden (management, office, benefits)	\$ 31.20

TOTAL WAGES FOR OFFICE WORK      \$ 187.20

TOTAL WAGES      \$1347.84

Food and Accomodation:

3.25 man-days at \$40/day	\$ 130.00
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Transportation:

Rental of 4x4 truck, mileage, gas, oil, repairs 4 days at \$75.00/day	\$ 225.00
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Assay Costs:

18 rock geochemical analyses - \$ 10.95/sample	\$ 197.10
196 soil geochemical analyses - \$ 8.95	\$1754.20

Other:

Bags, supplies, shipping, misc.	\$ 200.00
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SUB-TOTAL      \$2506.30

TOTAL EXPENDITURES      \$3854.14



LABOUR DISTRIBUTION

MONTH OCTOBER, 1987

EMPLOYEE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
FIELD, M.																																	
FORSYTHE, S.										B	B																						
HANNIGAN, P.	B	5	B	5	5	5	5	5		G	5	5	5	G	5	B	B	G	3	B	3	G	4	4	3	G	G	4	G	B	B		
HITCHINS, A.	B	B	B	B	B	B	G	G	B	B	B	D	D	G	G	B	3	B	G	B	3	G	B	B	B	B	B	B	B	B	B		
HITCHINS, B.	B	9	B	5	5	9	G	5		9	9	G	L	L	G	9	9	9	D	9	9	9	9	3	9	9	9	9	B	B	9		
LOUNSBURY, P.	9	B			B	5	5	5	5				B	L	L	G	D						D	G	D			B	B	B	D	D	
MACLEAN, C.	B	B			B	5	5	5	5				B	B	B	B	G																
MEYER, R.													G	9	9	9	C	D	G	D	3	G	G	G	9	9	D	G	G	B	G	B	G
TOMASZEWSKI, G.																																	
VAN DYKE, C.	D	D	D	D	D	D	D	D							G	G	G	D	D	D	G	D	D	D	D	D	D	D	D	D	D	D	
WEST, J.																																	
WINTERBURN, B.	9				9	9							9	9	9	9						9	9					9					
CLOUTHIER, G.					S	S	S	S	S																								
ELLERINGTON, J.	S	S	S	5	5	5	5	5	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
O'GRADY, F.																																	

B	BAYONNE	1	BUSTER
C	GEOCHEMISTRY	2	WHITEJACK
D	DRILL	3	BEAR
G	GEOLOGY	4	ECLIPSE
L	LINES	5	GOLDBELT / GAMBLE
M	MAGNETOMETER		
O	OTHER		
R	RENO 1		
S	SUPERVISION		
V	VLF		

*J*

APPENDIX 2

Geochemical Results

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

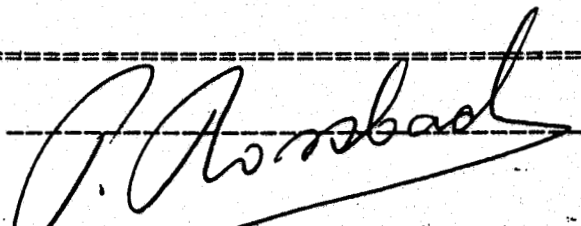
TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
 EDMONTON ALBERTA

CERTIFICATE#: 87694.A  
 INVOICE#: 80083  
 DATE ENTERED: 87-10-21  
 FILE NAME: TER87694.A  
 PAGE # : 1

PROJECT:  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
A	C-46915 46916 Goldbelt 2 46917 46918 46919 46920 46921 C-46922	20	0.2	10	8	5	2
A		14	0.2	16	106	5	2
A		6	0.2	4	4	5	2
A		6	0.2	8	36	5	2
A		4	0.2	4	2	5	2
A		4	0.4	6	2	5	2
A		2	0.4	6	2	5	2
A		30	0.2	92	10	5	20

CERTIFIED BY :



**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

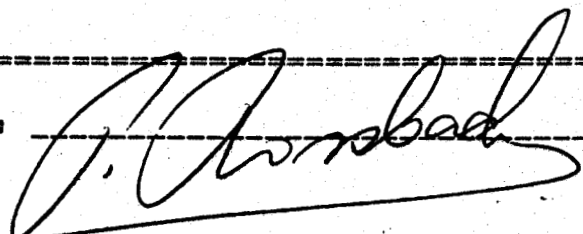
**CERTIFICATE OF ANALYSIS**

TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
 EDMONTON ALBERTA  
 PROJECT: GOLD BELT  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87697  
 INVOICE#: 80085  
 DATE ENTERED: 87-10-21  
 FILE NAME: TER87697  
 PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As	
A	Goldbelt 2	47996	8	0.2	26	22	5	4
A		47997	6	0.2	10	2	5	2
A		47998	2	0.2	6	2	5	2
A		47999	4	0.2	18	2	5	2
A	GB 2	53852	6	0.2	26	4	5	2
A		53853	8	0.2	110	2	5	18
A		53854	28	0.2	26	38	5	2

CERTIFIED BY :



**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

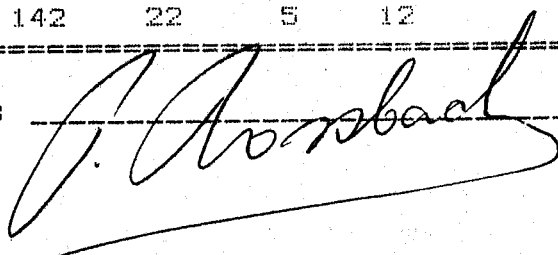
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 #202-7608 103 ST.  
 EDMONTON ALBERTA

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 INVOICE#: 80084  
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 FILE NAME: TER87696  
 PAGE # : 1

PROJECT: GOLD BELT  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 1	22	0.2	96	14	5	10
S	2	18	0.2	106	16	5	6
S	3	14	0.2	74	34	5	2
S	4	14	0.2	102	20	5	2
S	5	16	0.2	92	30	5	8
S	6	12	0.2	94	22	5	2
S	7	16	0.2	94	26	5	8
S	8	18	0.2	88	14	5	12
S	9	16	0.2	86	12	5	6
S	SCR 10	20	0.2	98	18	5	4
S	11	14	0.2	96	16	5	4
S	12	18	0.2	84	12	5	6
S	13	20	0.2	84	14	5	6
S	14	14	0.2	58	10	5	18
S	15	12	0.4	72	10	5	10
S	16	12	0.2	60	10	5	2
S	17	10	0.2	48	10	5	2
S	18	12	0.2	40	8	5	4
S	19	20	0.2	92	20	5	10
S	SCR 20	28	0.2	126	16	5	10
S	21	18	0.2	76	22	5	4
S	22	14	0.2	74	16	5	2
S	23	14	0.2	76	10	5	6
S	24	12	0.2	64	10	5	2
S	25	16	0.2	52	8	5	2
S	26	16	0.2	68	16	5	2
S	27	12	0.2	78	10	5	2
S	28	16	0.2	58	10	5	2
S	29	22	0.2	100	18	5	6
S	SCR 30	24	0.2	96	20	5	8
S	31	22	0.2	140	18	5	10
S	32	16	0.2	74	8	5	2
S	33	20	0.2	134	28	5	6
S	35	30	0.2	120	14	5	4
S	36	16	0.2	110	14	5	6
S	37	18	0.2	122	16	5	10
S	38	20	0.2	106	10	5	10
S	39	18	0.2	112	16	5	6
S	40	18	0.2	110	12	5	10
S	SCR 41	18	0.2	142	22	5	12

*Goldbelt*  
2

CERTIFIED BY : 

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : TERRA MINES LTD.  
#202-7608 103 ST.  
EDMONTON ALBERTA

*Goldbelt 2*

CERTIFICATE#: 87690  
INVOICE#: 80078  
DATE ENTERED: 87-10-16  
FILE NAME: TER87690  
PAGE # : 2

PROJECT:  
TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 345	24	0.2	138	18	5	2
A	47605	8	0.4	36	154	5	2
A	47606	4	0.2	10	8	5	2
A	47607	4	0.2	10	2	5	2
A	47608	6	0.2	10	2	5	2
A	47609	4	0.2	6	2	5	2
A	47610	4	0.2	8	2	5	2
A	47611	4	0.2	6	2	5	2
A	47612	4	0.2	6	2	5	2
A	47613	4	0.2	6	2	5	2
A	47614	4	0.2	6	2	5	2
A	47615	4	0.2	6	2	5	2

CERTIFIED BY :

*J. Rossbach*

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
 EDMONTON ALBERTA

CERTIFICATE#: 87696  
 INVOICE#: 80084  
 DATE ENTERED: 87-10-21  
 FILE NAME: TER87696  
 PAGE # : 2

PROJECT: GOLD BELT  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 42	20	0.2	112	12	5	16
S	43	18	0.2	142	14	5	16
S	44	26	0.2	140	16	5	26
S	45	32	0.2	170	22	5	22
S	46	28	0.2	150	38	5	18
S	47	30	0.2	162	30	5	22
S	48	12	0.2	52	22	5	8
S	SCR 49	10	0.2	62	12	5	10
S	SCRSS#1	14	0.2	84	8	5	6
S	SCRSS#2	10	0.2	80	8	5	6

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 2

CERTIFIED BY :

*Handwritten Signature: J. Rossbach*

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
 EDMONTON ALBERTA

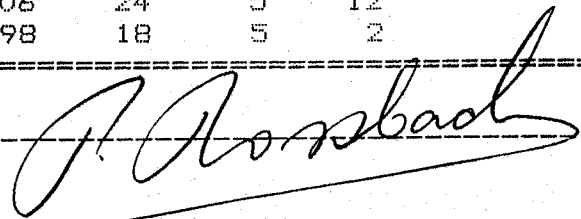
*Goldbelt 2*

CERTIFICATE#: 87690  
 INVOICE#: 80078  
 DATE ENTERED: 87-10-16  
 FILE NAME: TER87690  
 PAGE # : 1

PROJECT:  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 50S	16	0.2	64	10	5	8
S	51S	16	0.2	58	14	5	2
S	52S	14	0.2	60	18	5	4
S	53S	12	0.2	60	18	5	2
S	54S	16	0.2	58	10	5	2
S	55S	16	0.2	74	34	5	2
S	56S	16	0.2	80	12	5	6
S	57S	16	0.2	72	16	5	2
S	58S	20	0.2	118	12	5	2
S	59S	32	0.2	78	24	5	2
S	60S	42	0.2	106	26	5	6
S	61S	22	0.2	72	20	5	6
S	62S	40	0.2	74	22	5	18
S	63S	12	0.2	26	6	5	2
S	64S	20	0.2	100	16	5	4
S	65S	30	0.2	158	18	5	6
S	66S	26	0.2	140	12	5	4
S	67S	26	0.2	70	14	5	4
S	68S	16	0.2	50	24	5	2
S	SCR 69S	16	0.2	58	12	5	2
S	70S	20	0.2	80	16	5	10
S	71S	16	0.2	116	14	5	4
S	72S	24	0.2	140	10	5	4
S	73S	18	0.2	12	14	5	10
S	74S	14	0.2	78	26	5	12
S	75S	18	0.2	72	20	5	8
S	76S	18	0.4	92	16	5	4
S	77S	20	0.2	96	16	5	6
S	78S	20	0.2	102	16	5	10
S	79S	20	0.2	106	14	5	14
S	80S	16	0.2	124	20	5	8
S	81S	24	0.2	112	18	5	6
S	82S	16	0.2	78	16	5	6
S	83S	22	0.2	94	14	5	12
S	84S	22	0.2	100	18	5	4
S	85S	16	0.2	94	18	5	6
S	86S	18	0.2	90	18	5	8
S	87S	22	0.2	114	26	5	6
S	88S	22	0.2	106	24	5	12
S	SCR 89S	22	0.2	98	18	5	2

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TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
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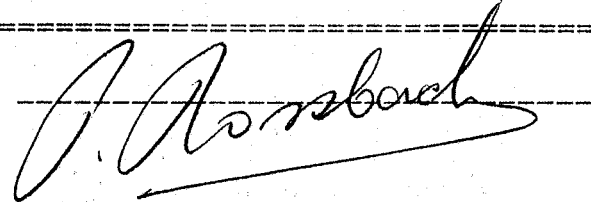
*Goldbelt 2*

CERTIFICATE#: 87694  
 INVOICE#: 80079  
 DATE ENTERED: 87-10-16  
 FILE NAME: TER87694  
 PAGE # : 1

PROJECT:  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 90S	14	0.2	72	16	5	2
S	91S	20	0.2	78	20	5	2
S	92S	24	0.2	94	16	5	2
S	93S	18	0.2	72	16	5	2
S	94S	12	0.2	48	10	5	2
S	95S	18	0.2	64	14	5	6
S	96S	18	0.2	88	18	5	2
S	97S	18	0.2	86	16	5	2
S	98S	16	0.2	80	16	5	2
S	99S	28	0.2	116	18	5	4
S	100S	22	0.2	108	16	5	4
S	101S	22	0.2	120	18	5	6
S	102S	28	0.2	114	20	20	6
S	103S	20	0.2	124	22	5	8
S	104S	20	0.2	110	14	5	2
S	105S	22	0.2	92	12	5	10
S	106S	22	0.2	96	12	5	4
S	107S	18	0.2	120	16	5	6
S	108S	22	0.2	106	40	5	8
S	SCR 109S	20	0.2	88	20	5	2
S	110S	24	0.2	128	18	5	8
S	111S	10	0.2	124	80	5	6
S	112S	16	0.2	90	12	5	8
S	113S	32	0.2	94	16	5	10
S	114S	28	0.2	120	12	5	4
S	115S	24	0.2	164	20	5	8
S	116S	28	0.2	90	24	5	6
S	117S	28	0.2	144	30	5	8
S	118S	28	0.2	142	18	5	8
S	119S	24	0.2	136	14	5	12
S	120S	22	0.2	116	14	5	10
S	121S	30	0.2	156	34	5	12
S	122S	32	0.2	124	20	5	8
S	123S	32	0.2	86	16	5	26
S	124S	28	0.2	132	22	5	10
S	125S	16	0.2	80	14	5	2
S	126S	20	0.2	100	16	5	16
S	127S	22	0.2	74	14	5	8
S	SCR 128S	8	0.2	58	8	5	4

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2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
 EDMONTON ALBERTA

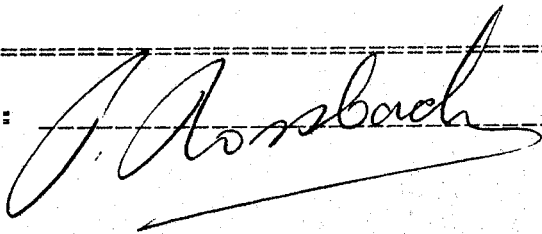
*Goldbelt 2*

CERTIFICATE#: 87694  
 INVOICE#: 80079  
 DATE ENTERED: 87-10-16  
 FILE NAME: TER87694  
 PAGE # : 2

PROJECT:  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 129S	22	0.2	120	16	5	10
S	130S	24	0.2	120	18	5	10
S	131S	20	0.2	126	14	5	4
S	132S	30	0.4	160	16	5	8
S	133S	24	0.2	146	18	5	12
S	134S	16	0.2	132	14	5	18
S	135S	18	0.2	102	14	5	10
S	136S	24	0.2	128	18	5	12
S	137S	28	0.2	104	14	5	10
S	138AS	24	0.2	102	12	5	8
S	139S	14	0.2	68	8	5	12
S	140S	18	0.2	88	10	5	4
S	141S	24	0.2	108	12	5	8
S	142S	24	0.2	118	34	5	10
S	143S	20	0.2	100	16	5	8
S	144S	20	0.2	96	18	5	8
S	145S	20	0.2	124	14	5	8
S	146S	24	0.2	124	16	5	6
S	147S	22	0.2	98	18	5	8
S	SCR 148S	24	0.2	100	16	5	2
S	149S	24	0.2	138	18	5	14
S	150S	28	0.2	144	22	60	10
S	151S	28	0.2	142	20	5	10
S	152S	20	0.2	116	18	5	12
S	153S	20	0.2	88	20	5	6
S	154S	16	0.2	70	12	5	10
S	155S	24	0.2	100	16	5	14
S	156S	22	0.2	122	50	5	16
S	157S	26	0.2	130	20	5	16
S	158S	28	0.2	106	18	5	14
S	159S	20	0.2	96	18	5	8
S	160S	30	0.2	108	16	5	12
S	161S	22	0.2	100	18	5	8
S	162S	24	0.2	94	20	5	6
S	163S	22	0.2	76	12	5	12
S	164S	34	0.2	122	34	5	12
S	165S	22	0.2	102	38	5	14
S	166S	24	0.2	144	22	5	8
S	SCR 167S	30	0.2	124	26	5	8

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**CERTIFICATE OF ANALYSIS**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

TO : TERRA MINES LTD.  
 #202-7608 103 ST.  
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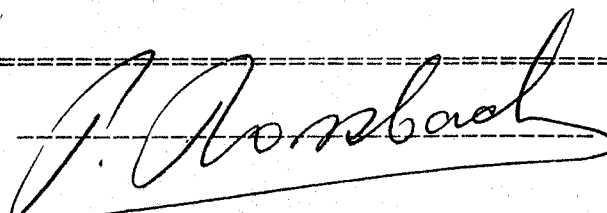
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CERTIFICATE#: 87694  
 INVOICE#: 80079  
 DATE ENTERED: 87-10-16  
 FILE NAME: TER87694  
 PAGE # : 3

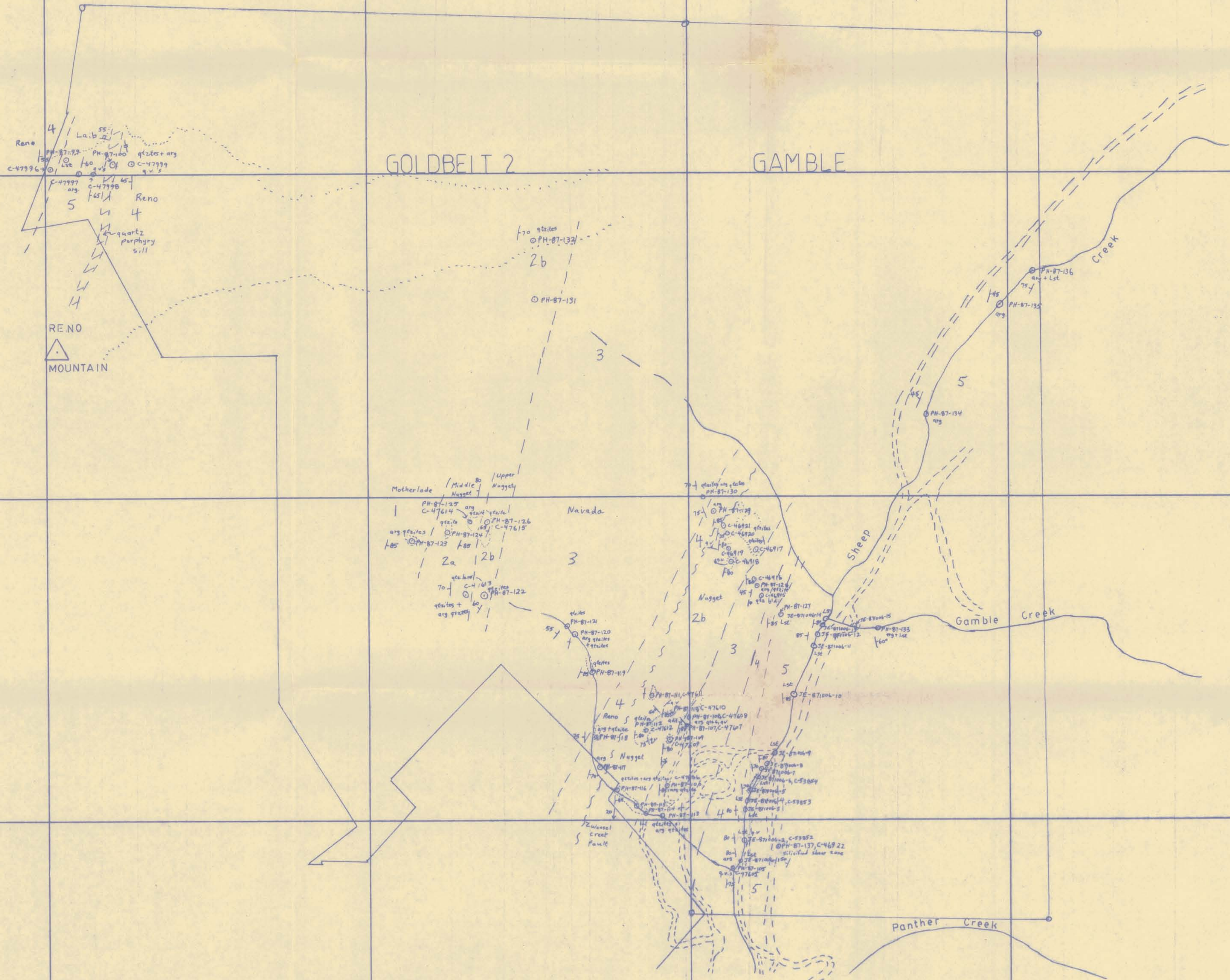
PROJECT:  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPM As
S	SCR 168S	24	0.2	118	22	5	14
S	169S	18	0.2	100	14	5	14
S	170S	14	0.2	120	16	5	16
S	171S	16	0.2	102	14	5	16
S	172S	20	0.2	112	18	5	12
S	173S	18	0.2	138	20	5	12
S	174S	32	0.2	130	26	5	10
S	175S	20	0.2	110	30	5	12
S	176S	14	0.2	88	16	5	10
S	177S	14	0.2	80	12	5	8
S	178S	22	0.2	110	14	5	16
S	179S	32	0.2	112	16	5	42
S	180S	36	0.2	136	46	40	30
S	181S	24	0.2	88	16	5	8
S	SCR 182S	20	0.2	62	14	5	14
S	SCR 58/68	16	0.2	82	18	5	12
L	SCR-SS-#3	8	0.2	38	10	5	2
L	#4	22	0.2	106	38	5	6
L	#5	24	0.2	92	46	5	2
L	#6	26	0.2	184	42	5	14
L	SCR-SS #7	26	0.2	146	102	5	4
L	PH 87-1	8	0.2	40	8	5	2
L	-2	8	0.2	60	18	5	2
L	PH 87-3	48	0.2	134	10	5	2
L	JE 87001	12	0.2	60	10	5	2
L	JE 87002	12	0.2	68	8	5	2
S	SCR-138BS	16	0.2	50	20	5	2

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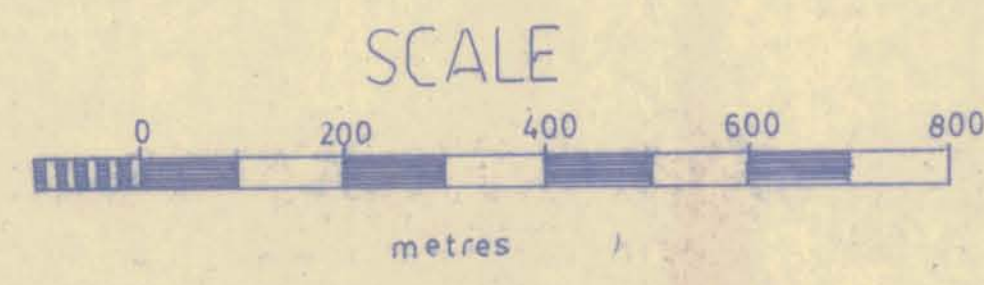
LEGEND

- Quartz porphyry sill
- Laib Group; limestones and argillites
- Reno Formation; argillites, argillaceous quartzites
- Nevada Formation; quartzites, argillaceous quartzites
- Upper Nugget Formation; quartzites
- Middle Nugget Formation; quartzites; arg. quartzites
- Motherlode Formation; quartzites
- Outcrop boundary
- Geological contact
- Fault
- Bedding; inclined, vertical
- Fracture; inclined, vertical
- Lineation; plunge in arrow direction
- Tops of beds; tops in arrow direction
- Creek
- Road
- Station location
- Sample location
- Mountain peak

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,728

Part 4 of 9



TERRA MINES LTD.

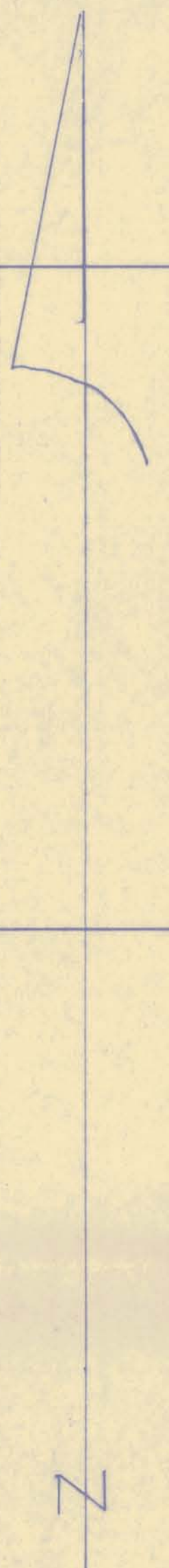
GEOLOGY MAP

GOLDBELT 2 / GAMBLE CLAIMS

DRAWN BY: P. HANNIGAN	SCALE 1: 7500
CHECKED BY:	DATE:
APPROVED BY:	DRAWING NO: FIG. 2



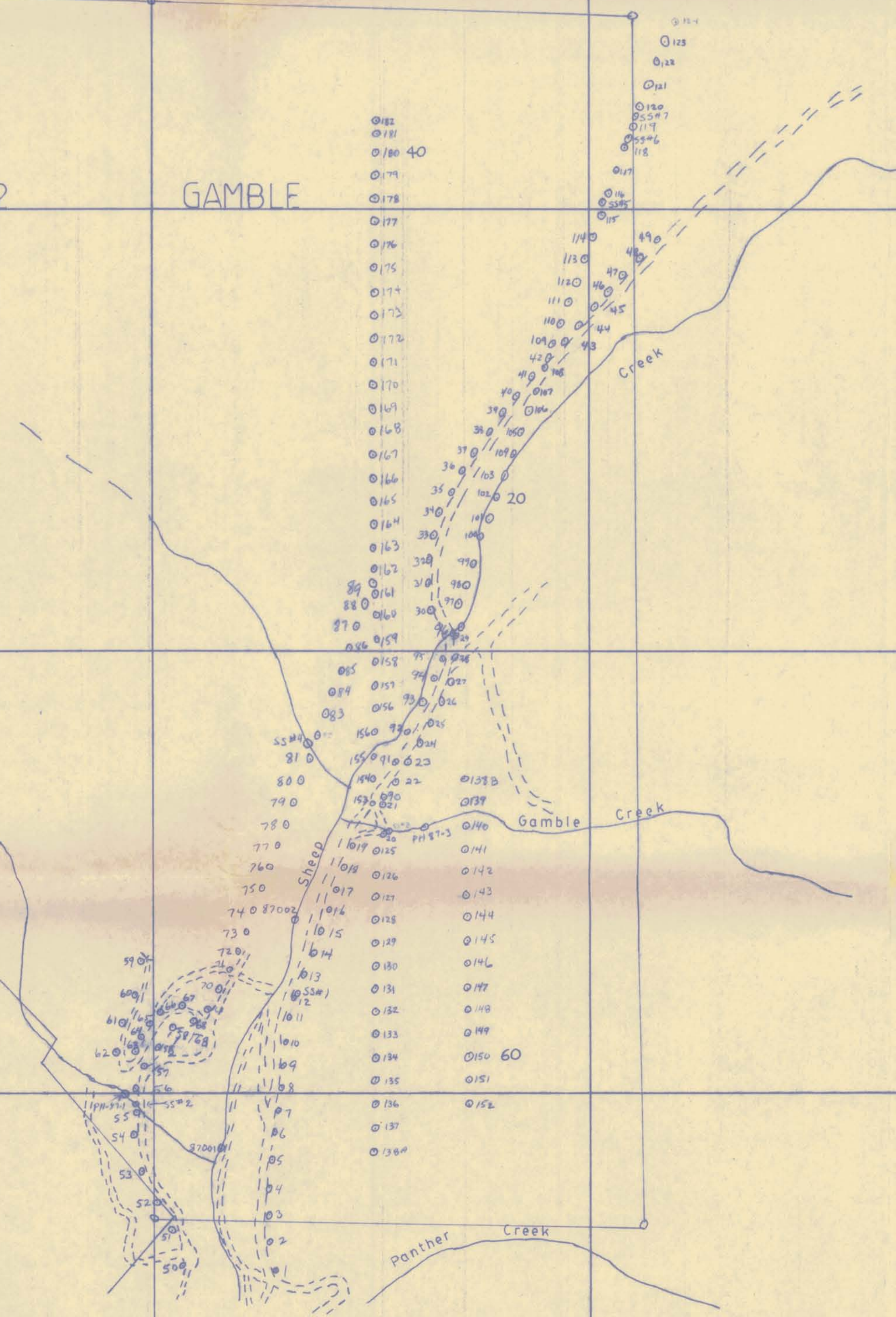
01/11/2015  
0917 P514 3



RENO  
MOUNTAIN

GOLDBELT 2      GAMBLE

PH-87-2



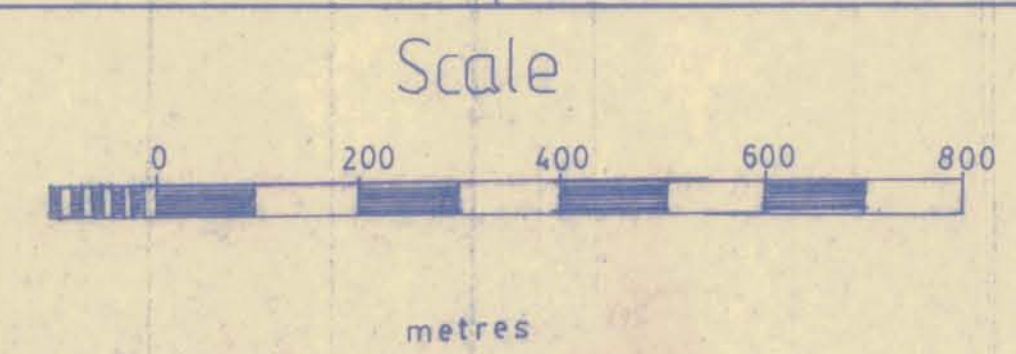
LEGEND:

- Sample location
- Road
- ~ Creek

○ 181 50    Sample #, Au ppb  
 NOTE: Au values greater than  
 5ppb only are plotted

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,728  
Part 4 of 9



TERRA MINES LTD.

GEOCHEMICAL SOIL SAMPLES  
"B" HORIZON

GOLDBELT 2 / GAMBLE GROUP

DRAWN BY: P. HANNIGAN      SCALE 1: 7500

CHECKED BY:      DATE:

APPROVED BY:      DRAWING NO: FIG. 3