

GEOLOGICAL & GEOCHEMICAL REPORT ON THE RENO 1 CLAIMS

CLAIMS - RENO 1 - 12 units - Record # 2028

NELSON MINING DIVISION

N.T.S. - 82 F/3

Latitude - 49 degrees, 12 minutes  
Longitude - 117 degrees, 08 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

Part 3 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) GEOLOGICAL , GEOCHEMICAL	TOTAL COST \$ 2932.20
--	--------------------------

AUTHOR(S) J.D. ELLERINGTON... SIGNATURE(S) *[Signature]*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED NOV. 19, 1987 YEAR OF WORK 1987

PROPERTY NAME(S) RENO. 1

COMMODITIES PRESENT GOLD, ZINC, COPPER

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

MINING DIVISION NELSON NTS 82 F/3

LATITUDE 49° 12' LONGITUDE 117° 08'

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)]:

RENO. 1, 12 UNITS, RECORD # 2028

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)

MAILING ADDRESS

202, 7608-103 ST.  
EDMONTON, ALBERTA  
T6E 4Z8

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

↳ CRETACEOUS - NELSON PLUTONIC ROCKS  
- GRANITE  
ORDOVICIAN - ACTIVE FORMATION  
- ARGILLITE  
CAMBRIAN - Sediments  
- QUARTZITE, PHYLLITE, LIMESTONE

REFERENCES TO PREVIOUS WORK GSC MAP 1145A  
B.C. Dept. of MINES BULLETIN 31

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area) Ground	0.28 km <sup>2</sup>	RENO. 1	1236.00
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ....)			
Soil	79	RENO. 1	1382.20
Silt			
Rock	2	RENO. 1	18.00
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)	4.1 Km	RENO. 1	296.00
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			
<b>TOTAL COST</b>	<b>2932.20</b>		

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 . . . . .

## TABLE OF CONTENTS

	PAGE
I Introduction	1
II Detailed Technical Data and Interpretation	1
a. Geology	
i. Regional	2
ii. Property Geology	2
iii. Discussion of Results	3
b. Geochemistry	
i. Sampling Method	3
ii. Laboratory Procedure	3
iii. Discussion of Results	3
III Recommendations	4
References	5
Statement of Qualifications	6
Appendix 1, Itemized cost statement	7
Appendix 2, Geochemical Results	9

## LIST OF FIGURES

Figure 1 - Index Map	1A
Figure 2 - Geology Map, West Grid, Reno 1	
Figure 3 - Soil Geochemical Results, Gold	
Figure 4 - Soil Geochemical Results, Zinc	

## GEOLOGICAL & GEOCHEMICAL REPORT ON THE RENO 1 CLAIMS

### I Introduction

The property consists of 12 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 soil sampling and prospecting has been carried out, primarily in the eastern portion of the claims where similar rocks to those found in the Reno Mine occur. Evidence of a small amount of trenching by previous owners of the ground exists.

The Reno 1 claim group is situated on the northwest slope of Reno Mountain, 7 km east of the village of Salmo. Access to the property is via the Sheep Creek and Nugget Creek roads to the old Reno minesite and then by 4 wheel drive 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 0.5 km to the south was one of the major producers in the camp. There has been no known underground development or production on the Reno 1 claims.

In 1987, Lightning Minerals Inc. initiated a program of line flagging, geological mapping and soil geochemistry to test a contact zone between intrusives and Lower Cambrian sediments in the western portion of the Reno 1 claims. Line flagging of 4.1 km took place, mapping covered 0.28 square kilometres on a scale of 1:2000 and geochemical work included 79 soil samples and 2 rock chip samples.

The personnel employed on this claim block were R. Meyer, S. Forsythe and J. Ellerington. Field work was performed on September 2, 3, 4 & 5, 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 projected contact between granite and sediments. Objective of the mapping was to define the contact and examine outcrops for possible



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 near or on the contact zone between a granite intrusive of the Nelson Pluton and Ordovician and Cambrian sediments. The sediments are complexly folded and faulted.

ii. Property Geology:

The dominant formation underlying the southern portion of the claims is the Lower and Middle Ordovician Active Formation. In this area it is primarily a dark argillite. North of a faulted contact roughly east-west, about mid-way through the claims, Lower Cambrian rocks occur. These are predominantly quartzites, argillites, phyllites and limestones equivalent to members of the Reno, Laib and Quartzite Range Formations in which much of the gold production of the Sheep Creek area has taken place.

In preparation for mapping, a grid was established in an area of interest covering the projected contact between sediments and a granite intrusive in the western portion of the property. A baseline was laid out on an azimuth of 345 degrees essentially sub-parallel to the contact and in part dictated by the orientation of topography in the area. Lines were run with a Silva Ranger compass and distance control was kept through the use of metric hip chains. Lines and stations were marked with flagging. A total of 4100 metres of line was placed. The area covered by the geological mapping was 0.28 square kilometres.

Most outcrop was located along a north-west trending ridge, whereas down-slope the terrain became heavily timbered with limited outcrop. The actual granite contact was located in one outcrop on Line 98E. It can be interpreted between other outcrops and appears to trace an undulating pattern through the grid. Sediments near the contact show evidence of high temperature alteration and have small inclusions of granite in irregular patterns within them.

On Line 99E at 96+15N, a small outcrop of quartz-pegmatite was located which carried slightly anomalous values in zinc (608 ppm). No gold anomaly was coincident. The rock was mostly massive white quartz with

pink feldspar xenoliths. No visible sulfides were noted.

On Line 99E at 96+25N, a small pit in a sulphide-bearing limestone outcrop was located. The limestone was very soft, friable and contained massive pyrite in zones of up to 5 cm wide that were concordant to bedding. Bedding was at a strike of 30 degrees azimuth and dip of minus 85 degrees to the south. Assay of a grab sample from the trench yielded 1580 ppm Zn and 207 ppm Cu.. Precious minerals were not anomalous.

iii. Discussion of Results:

Mapping provided reasonable control on the location of the granite/sediment contact. A small zone of mineralization apparently associated with a pegmatitic intrusion showed some anomalous zinc content as might be expected in the vicinity of a granitic contact. Rock samples were not anomalous in silver or gold.

b. Geochemistry:

i. Sampling Method:

Soil samples were collected from the B soil horizon with a grub-hoe. Soils were dominantly silts with a rusty brown colour. Samples were collected at 50 metre intervals along lines spaced at 100 metre intervals. In total, 79 samples were collected.

ii. Laboratory Procedure:

Soil sample analysis was carried out by Acme Analytical Laboratories Ltd., 852 E. Hastings Street, Vancouver, B.C.. Samples were dried at 60 degrees C. and sieved at 80 mesh. Digestion of a 0.50 gm sample was by 3 mls 3-1-2-HCl-HNO<sub>3</sub>-H<sub>2</sub>O at 95 degrees C for one hour. The digested sample was then diluted by 10 ml of water and analysis for 30 elements by the ICP technique carried out. Gold analysis by atomic absorption on a 10 gram sample was also carried due to the limited sensitivity of ICP for gold detection.

iii. Discussion of Results:

A distinct gold anomaly of low magnitude was outlined. It essentially appears to correlate with the granite contact. Maximum value detected was 32 ppb versus background levels of 1 ppb. The anomaly persists over a distance of about 1 km..

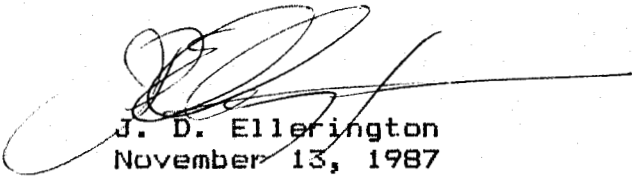
Aside from gold, the other elements are of limited



economic concern at the present time. Zinc, lead, copper and molybdenum showed minor responses.

III Recommendations:

In view of the low order of magnitude of the rock and soil analytical results, additional work on the grid area is of low priority. The gold anomaly is interesting in its persistence, but considering the small values and the geological environment, probably does not represent economic mineralization.



J. D. Ellerington  
November 13, 1987

REFERENCES

Geological Survey of Canada

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

Matthews, W.H.

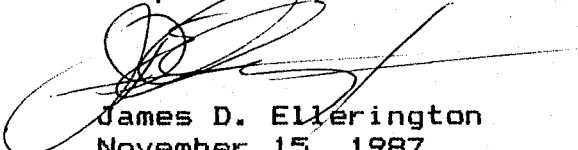
1953: Geology of the Sheep Creek Camp; B.C. Department of Mines, Bulletin No. 31.

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

Wages For Field Work:

James Ellerington (geologist) 4 days (September 2,3,4,5, 1987)	\$150/day	\$ 600.00
Sean Forsythe (assistant) 3 days (September 2,3,5, 1987)	\$ 50/day	\$ 150.00
Rick Meyer (assistant) 1 day (September 4, 1987)	\$100/day	\$ 100.00
	Add 4% holiday pay	\$ 34.00
	Add 20% burden (management, office, benefits)	\$ 176.80
	<b>TOTAL WAGES FOR FIELD WORK</b>	<b><u>\$1060.80</u></b>

Wages For Report Preparation:

James Ellerington (geologist) 2 days (November 12, 13, 1987)	\$150/day	\$ 300.00
	Add 4% holiday pay	\$ 12.00
	Add 20% burden (management, office, benefits)	\$ 62.40
	<b>TOTAL WAGES FOR OFFICE WORK</b>	<b><u>\$ 374.40</u></b>
	<b>TOTAL WAGES</b>	<b><u>\$1435.20</u></b>

Food and Accomodation:

(September 2,3,4,5; November 12,13, 1987)

7 days at \$40/day	\$ 280.00
--------------------	-----------

Transportation:

Rental of 4x4 truck, mileage, gas, oil, repairs (September 2,3,4,5, 1987)	
4 days at \$75.00/day	\$ 300.00

Assay Costs:

2 rock geochemical analyses - \$ 9.00/sample	\$ 18.00
79 soil geochemical analyses - \$ 11.00	\$ 869.00
Shipping costs to assay lab by Greyhound	\$ 30.00
<b>SUB-TOTAL</b>	<b><u>\$1497.00</u></b>

<b>TOTAL EXPENDITURES</b>	<b><u>\$2932.20</u></b>
---------------------------	-------------------------

COST BREAKDOWN

	GEOLOGY	GEOCHEMISTRY	LINE-FLAGGING
Geologist	\$ 600.00	\$ -	\$ -
Assistant	-	125.00	125.00
Report	150.00	150.00	-
Hol. Pay 4%	38.00	15.00	5.00
Burden 20%	<u>148.00</u>	<u>53.20</u>	<u>26.00</u>
S.T. Wages	936.00	343.20	156.00
Food & Accom.	200.00	40.00	40.00
Transport.	100.00	100.00	100.00
Assay	=	<u>917.00</u>	=
TOTAL	1236.00	1400.20	296.00

**APPENDIX 2**

**Geochemical Results**

## GEOCHEMICAL ICP ANALYSIS

Received Oct 2/87

Plotted: \_\_\_\_\_

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SOIL AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 21 1987 DATE REPORT MAILED: *Sept 30/87* ASSAYER: *D. Zyer* DEAN TOYE, CERTIFIED B.C. ASSAYER

TERRA MINES File # 87-4373

SAMPLE	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU*
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
RENO BL100 94+50	6	115	30	157	1.6	22	4	236	4.71	7	6	ND	2	16	1	4	6	142	.14	.228	9	40	.73	78	.05	11	2.40	.01	.10	2	21
RENO BL100 95+00	3	45	32	116	.4	18	4	120	3.24	6	5	ND	2	10	1	2	4	91	.11	.077	9	44	.98	97	.14	3	2.56	.01	.06	1	5
RENO BL100 95+50	5	36	23	190	.7	17	3	331	3.03	9	5	ND	1	16	1	2	4	99	.11	.115	8	32	.78	82	.06	2	1.80	.01	.09	2	1
RENO BL100 96+00	4	59	24	386	1.3	36	4	621	3.90	9	7	ND	3	18	1	2	5	262	.29	.258	9	49	1.26	120	.09	9	2.24	.01	.09	1	1
RENO BL100 96+50	3	37	23	276	2.2	22	4	286	4.11	7	5	ND	5	11	1	3	2	174	.15	.204	12	38	.56	65	.13	4	2.07	.01	.07	1	1
RENO BL100 97+00	3	34	64	192	1.3	17	2	92	3.45	12	5	ND	2	9	1	3	2	169	.15	.168	11	35	.36	48	.11	2	1.63	.01	.05	1	1
RENO BL100 97+50	2	29	69	174	1.7	15	3	399	2.11	5	5	ND	2	12	1	2	2	63	.20	.113	11	17	.26	107	.11	4	1.13	.02	.06	2	1
RENO BL100 98+00	2	15	79	103	.3	7	3	1739	1.31	3	5	ND	3	13	2	2	4	42	.14	.036	8	12	.19	137	.13	2	.69	.01	.08	2	2
RENO BL100 98+50	2	16	86	84	.2	9	3	1077	1.47	6	5	ND	2	11	1	2	2	37	.15	.039	6	15	.20	123	.11	2	.65	.01	.06	2	3
RENO BL100 99+00	3	39	36	262	.7	22	4	201	2.74	7	5	ND	6	13	1	4	2	193	.19	.201	11	39	.80	110	.12	4	1.79	.01	.08	2	1
RENO BL100 100+00	16	99	73	266	3.1	32	4	290	3.83	10	5	ND	2	35	3	4	2	286	.69	.334	10	34	.43	165	.06	3	1.25	.01	.08	2	3
STD C/AU-S	19	60	37	130	7.0	67	25	928	3.96	38	18	7	37	46	16	18	21	53	.46	.082	34	60	.87	173	.07	34	1.64	.05	.12	12	47

TERRA MINES LTD. FILE # 87-4052

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	M	AU8
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	%	PPH	PPH	%	PPH	%	PPH	%	%	%	PPH	PPH
RENO L99E 99+50N	1	22	25	63	.2	10	3	174	3.51	5	5	ND	8	6	1	2	2	60	.04	.097	8	19	.19	43	.16	2	4.71	.01	.05	1	5
RENO L99E 99+00N	1	13	15	34	.1	5	2	78	2.77	2	5	ND	5	5	1	2	2	59	.03	.037	10	13	.12	40	.14	2	2.02	.01	.04	1	1
RENO L99E 98+50N	1	17	75	52	.4	6	2	137	1.38	4	5	ND	3	9	2	2	2	27	.07	.071	6	10	.12	59	.10	2	2.19	.02	.06	1	5
RENO L99E 98+00N	1	16	50	54	.6	7	2	305	2.26	6	5	ND	3	10	1	2	2	48	.08	.055	9	12	.13	76	.13	9	1.13	.02	.06	1	1
RENO L99E 97+50N	1	20	21	79	.3	12	2	165	2.49	4	5	ND	10	9	1	2	2	87	.07	.073	20	18	.27	44	.12	2	1.93	.01	.06	1	1
RENO L99E 97+00N	1	22	21	95	.2	13	3	1209	2.53	2	5	ND	6	9	1	2	2	72	.07	.068	16	20	.31	73	.13	2	1.71	.01	.07	1	1
RENO L99E 96+50N	1	19	99	215	.1	13	6	2060	3.16	8	5	ND	2	23	1	2	2	60	.27	.087	12	18	.39	171	.09	2	1.38	.01	.10	1	1
RENO L99E 96+00N	1	28	126	734	.1	29	8	1367	3.35	8	8	ND	6	19	1	2	2	100	.90	.337	18	29	.71	123	.10	9	1.83	.01	.07	2	2
RENO L99E 95+50N	2	35	56	363	.9	34	7	1163	3.34	10	5	ND	3	17	1	2	2	120	.28	.175	13	29	.60	115	.10	4	1.93	.01	.09	1	1
RENO L99E 95+00N	2	64	26	371	.3	40	12	810	3.74	2	6	ND	4	16	1	2	2	127	.22	.146	14	40	1.13	125	.13	8	2.65	.01	.10	1	1
RENO L99E 94+50N	4	60	59	373	1.0	34	4	274	3.00	12	5	ND	3	16	1	2	2	136	.18	.126	8	30	.70	96	.11	4	1.78	.01	.07	1	8
RENO L99E 94+00N	27	97	107	480	1.9	72	14	1058	5.23	21	7	ND	2	29	1	5	2	197	.31	.193	9	36	.60	110	.05	2	2.30	.01	.11	1	13
RENO L100E 94+00N	16	64	56	423	.4	57	8	888	3.86	12	5	ND	1	21	1	3	2	123	.16	.206	10	30	.55	128	.04	2	2.43	.01	.09	1	1
L97 94	1	11	87	55	.2	4	1	419	.46	2	5	ND	1	9	1	3	2	14	.12	.043	7	6	.06	64	.04	6	.40	.01	.07	1	3
L97 94.5	1	19	227	213	.4	11	4	2821	.86	3	5	ND	1	38	7	4	2	21	.76	.096	4	8	.18	334	.04	9	.50	.01	.12	1	1
L97 95	1	24	89	229	.1	24	7	1981	2.66	8	5	ND	2	19	1	2	2	78	.37	.097	14	26	.54	161	.09	2	1.28	.01	.11	1	2
L97 95.5	2	36	105	703	.5	34	8	1035	4.26	10	5	ND	8	15	1	2	2	128	.48	.322	16	33	1.07	72	.12	2	2.36	.01	.10	2	4
L97 96	1	18	118	223	.1	16	5	1185	2.20	6	5	ND	4	15	2	3	2	64	.26	.082	17	18	.34	144	.07	2	.91	.01	.10	2	1
L97 96.5	1	18	168	166	.1	10	3	2512	.97	2	5	ND	1	39	1	2	2	23	.63	.101	6	11	.26	209	.03	7	.52	.01	.11	2	2
L97 97	1	21	100	160	.1	19	6	2591	2.32	9	5	ND	5	21	1	2	2	46	.25	.107	14	21	.43	114	.11	6	1.27	.01	.12	2	1
L97 97.5	1	17	224	191	.1	14	5	5969	1.79	6	5	ND	2	20	2	3	2	30	.32	.065	11	13	.26	232	.07	2	1.05	.01	.11	1	5
L97 98	3	17	74	159	.1	16	6	2715	2.35	5	18	ND	5	56	2	2	2	37	.45	.061	29	20	.39	152	.08	7	1.54	.01	.10	1	2
L97 98.5	1	14	156	99	.2	11	4	1050	2.19	18	5	ND	2	10	1	2	2	41	.09	.067	10	17	.25	75	.11	2	1.34	.02	.10	1	1
L99 101	1	18	22	26	.2	5	2	60	3.49	5	5	ND	6	4	1	3	2	55	.01	.057	7	15	.08	26	.16	2	4.28	.02	.03	1	1
L99 101.5	1	11	26	20	.1	2	1	92	.50	3	5	ND	2	5	1	2	2	14	.01	.021	8	5	.04	47	.05	4	.50	.02	.04	2	3
L99 102	1	8	15	18	.1	4	1	90	.74	2	5	ND	1	5	1	2	2	30	.02	.015	8	8	.04	30	.10	2	.52	.02	.03	2	1
BL100 99.5	10	79	42	316	2.2	34	4	528	4.00	7	9	ND	4	28	3	2	2	304	.67	.352	13	40	.58	170	.10	6	1.80	.01	.11	1	3
BL100 100.5	2	36	30	269	.4	33	15	2461	3.97	6	5	ND	3	25	1	2	2	111	.18	.109	18	34	.53	120	.10	2	2.62	.01	.16	1	2
BL100 101	1	21	88	147	.3	19	8	2135	3.13	11	5	ND	3	11	1	3	2	45	.11	.066	15	26	.41	130	.11	2	1.69	.01	.13	1	1
BL100 101.5	1	18	17	96	.2	17	8	434	3.17	7	5	ND	4	17	1	2	2	41	.11	.082	12	30	.43	88	.14	4	2.26	.01	.17	1	2
BL100 102	1	16	21	89	.4	9	5	472	2.49	7	5	ND	7	6	1	3	2	37	.03	.096	7	14	.18	57	.17	2	4.58	.02	.06	2	1
STD C/AU-S	18	62	36	132	7.0	69	28	1051	4.14	41	19	7	39	51	18	17	23	60	.46	.093	38	63	.85	182	.08	31	1.79	.06	.13	13	52



GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOIL AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 11 1987

DATE REPORT MAILED: *Sept 18/87*

ASSAYER: *D. J. ...* DEAN TOYE, CERTIFIED B.C. ASSAYER

TERRA MINES LTD. File # 87-4052 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPM
RENO 103N 97+50E	1	8	29	22	.1	15	2	70	.95	3	5	ND	3	6	1	2	2	29	.05	.012	8	12	.22	37	.12	3	.84	.02	.03	1	11
RENO BL100N 97+00E	1	13	16	41	.1	5	2	163	4.50	14	5	ND	9	5	1	2	2	82	.04	.055	10	17	.16	32	.19	3	1.92	.02	.05	1	1
RENO BL100N 97+50E	1	16	103	86	.1	147	20	1203	2.83	5	5	ND	2	15	1	2	2	37	.26	.049	6	40	2.10	82	.08	3	.96	.01	.06	1	11
RENO BL100N 98+00E	1	16	76	217	.1	15	5	8032	1.96	4	5	ND	1	18	2	2	2	30	1.09	.066	8	15	.66	208	.08	3	1.32	.01	.08	1	25
RENO BL100N 98+50E	1	15	137	119	.3	6	2	1178	1.16	4	5	ND	1	16	3	2	2	26	.27	.080	6	12	.13	106	.09	5	.79	.01	.09	3	8
RENO L97E 103+00N	1	12	34	62	.1	7	3	263	2.61	9	5	ND	12	6	3	2	2	46	.04	.050	17	14	.28	45	.15	3	1.54	.01	.07	1	35
RENO L97E 102+50N	1	10	27	42	.2	6	2	246	1.85	5	5	ND	6	6	2	2	2	39	.06	.032	12	11	.19	42	.14	3	1.10	.01	.05	3	18
RENO L97E 102+00N	2	11	72	58	.1	6	3	784	1.77	3	5	ND	5	9	2	2	2	38	.11	.033	17	12	.20	59	.10	5	.91	.01	.07	2	20
RENO L97E 101+50N	2	14	212	106	.1	8	4	3529	1.93	7	5	ND	2	15	2	2	2	31	.21	.063	11	11	.24	117	.08	4	.98	.01	.11	3	32
RENO L97E 101+00N	1	12	42	71	.2	7	3	389	1.98	2	5	ND	7	10	3	2	2	34	.16	.048	12	12	.24	53	.09	6	.98	.01	.07	4	18
RENO L97E 100+50N	1	12	24	93	.1	11	4	514	2.95	5	5	ND	13	9	2	2	2	47	.13	.045	20	19	.47	61	.14	4	1.89	.01	.10	1	6
RENO L98E 106+00N	1	27	193	460	.2	21	9	5458	2.73	2	5	ND	7	44	5	2	2	30	2.58	.307	18	28	1.66	356	.12	11	2.80	.02	.13	1	5
RENO L98E 105+50N	1	25	244	224	.2	23	11	1597	3.60	13	5	ND	7	33	3	2	3	42	.61	.127	18	31	1.11	145	.13	12	3.23	.02	.12	1	3
RENO L98E 105+00N	1	29	66	481	.1	40	14	1109	4.47	9	5	ND	7	22	3	2	2	75	.65	.241	18	33	2.53	111	.19	87	3.09	.02	.11	1	20
RENO L98E 104+50N	5	34	18	453	.4	52	7	247	4.44	9	5	ND	7	15	1	2	2	139	.18	.126	12	31	.53	73	.21	4	3.37	.01	.07	1	9
RENO L98E 104+00N	7	56	81	979	.9	122	17	2046	3.47	7	5	ND	3	37	9	2	2	220	.94	.204	19	30	.36	214	.05	3	1.56	.01	.09	2	5
RENO L98E 103+50N	1	25	70	233	.1	29	12	2161	4.03	4	5	ND	9	24	3	2	2	59	.49	.113	17	46	1.77	213	.22	2	2.85	.01	.12	1	22
RENO L98E 103+00N	1	19	116	293	.1	14	7	5042	3.07	7	5	ND	4	50	2	2	2	39	.84	.138	20	22	.85	238	.08	5	2.03	.01	.13	1	23
RENO L98E 102+50N	1	14	57	74	.1	14	4	501	2.04	9	5	ND	4	31	2	3	2	37	.14	.049	20	29	.38	65	.10	3	1.49	.01	.15	3	5
RENO L98E 102+00N	1	13	15	36	.1	5	2	67	3.25	7	5	ND	8	6	1	2	2	63	.03	.032	8	13	.11	41	.17	6	2.08	.02	.04	1	8
RENO L98E 101+50N	1	6	11	18	.1	2	1	65	.33	2	5	ND	2	10	1	2	2	14	.10	.016	14	4	.04	38	.05	6	.44	.02	.04	3	17
RENO L98E 101+00N	1	10	14	40	.1	6	2	134	1.99	2	5	ND	9	8	2	2	2	40	.04	.028	24	12	.22	47	.08	4	1.20	.01	.07	2	1
RENO L98E 100+50N	1	21	25	43	.2	5	2	192	5.74	2	5	ND	5	6	2	2	2	50	.05	.073	5	17	.12	49	.13	2	4.26	.01	.05	1	10
RENO L98E 99+50N	1	12	149	85	.2	5	1	501	.69	6	5	ND	1	18	2	6	3	12	.28	.085	3	6	.08	77	.03	5	.39	.01	.09	5	18
RENO L98E 99+00N	1	14	52	44	.4	5	2	115	2.32	11	5	ND	5	7	1	3	2	42	.05	.052	6	11	.11	32	.16	3	2.90	.02	.04	2	23
RENO L98E 98+50N	1	13	46	51	.4	6	2	160	1.93	11	5	ND	5	6	3	2	2	39	.04	.051	7	11	.12	48	.13	6	1.64	.02	.05	1	11
RENO L98E 98+00N	1	10	20	46	.1	6	2	92	2.31	8	5	ND	7	6	1	3	2	44	.03	.029	9	14	.15	35	.13	4	1.57	.01	.05	3	7
RENO L98E 97+50N	1	15	39	107	.1	12	4	610	2.87	3	5	ND	11	9	1	2	3	52	.07	.044	21	18	.35	69	.14	3	1.68	.01	.11	1	11
RENO L98E 97+00N	1	18	16	117	.2	17	5	656	3.04	2	5	ND	10	12	1	2	2	58	.09	.069	23	25	.44	79	.12	4	1.77	.01	.11	1	14
RENO L98E 96+50N	2	28	43	298	.2	28	9	1484	3.27	5	5	ND	11	31	2	2	3	84	.17	.077	28	28	.60	121	.13	2	2.12	.01	.12	1	8
RENO L98E 96+00N	2	33	222	1095	.1	30	9	1890	4.97	14	5	ND	9	24	2	2	2	100	1.15	.477	19	32	1.55	121	.10	12	1.90	.01	.11	2	23
RENO L98E 95+50N	3	53	252	1234	.3	46	8	1142	4.54	9	5	ND	7	29	3	3	2	148	2.60	.925	22	35	.92	113	.07	6	1.84	.01	.09	3	17
RENO L98E 95+00N	3	54	87	399	.5	58	9	1357	3.50	12	5	ND	4	27	3	2	3	137	.37	.110	16	40	1.00	219	.11	12	2.05	.01	.11	2	20
RENO L98E 94+50N	8	163	79	783	1.0	103	25	845	5.92	15	5	ND	4	27	2	2	5	154	.23	.257	17	44	1.28	226	.10	2	3.13	.01	.14	2	4
RENO L98E 94+00N	8	209	43	774	.8	104	44	1065	6.95	2	8	ND	4	34	6	2	2	108	.28	.262	14	41	.98	209	.07	13	3.62	.02	.13	1	2
RENO L99E 100+00N	1	10	12	26	.3	4	1	99	1.00	2	5	ND	4	9	1	2	3	29	.01	.018	17	6	.07	40	.12	6	.50	.01	.05	3	5
STD C/AU-S	19	63	38	132	7.2	71	28	1048	4.15	39	18	8	40	51	20	18	22	61	.47	.091	39	64	.86	182	.08	31	1.80	.06	.14	11	47

## GEOCHEMICAL ICP ANALYSIS

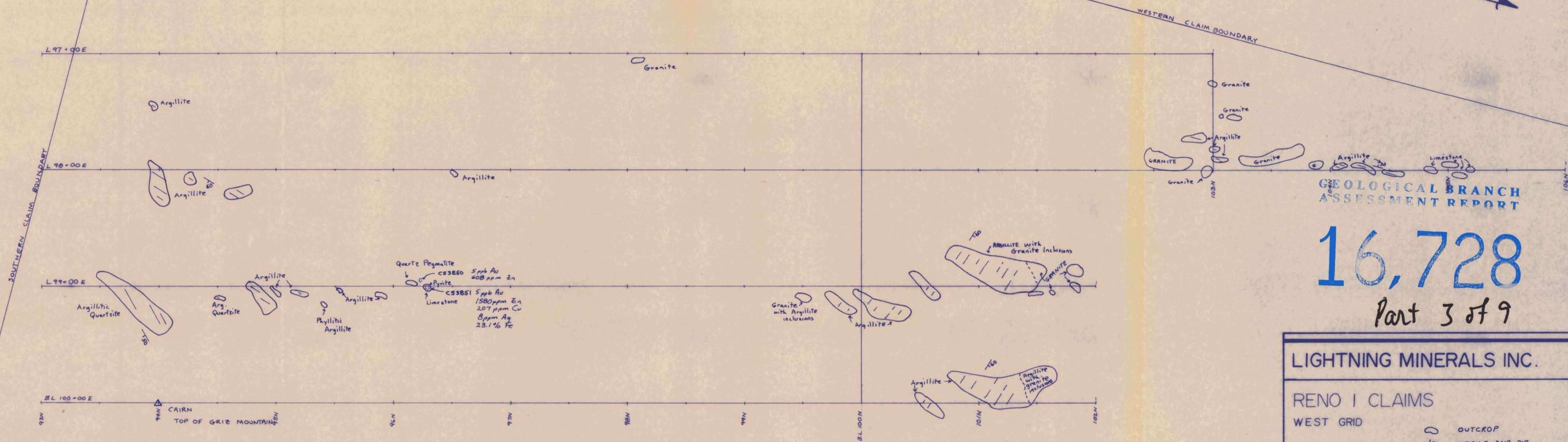
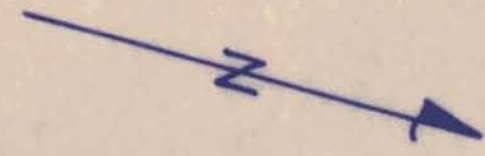
.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOLUTION

DATE RECEIVED: SEPT 18 1987

DATE REPORT MAILED: *Sept 24/87*ASSAYER: *D. J. ...* DEAN TOYE, CERTIFIED B.C. ASSAYER

ROSSBACHER LABORATORY PROJECT-CERT #87583 File # 87-4238

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
53850	1	7	11	608	.3	1	1	143	.16	4	5	ND	1	64	2	3	2	1	7.26	.020	2	18	3.52	4	.01	76	.02	.01	.01	1
53851	3	207	776	1580	1.5	4	3	252	23.12	8	5	ND	1	46	2	2	2	4	8.97	.129	2	1	.46	7	.01	9	.01	.01	.01	1



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**16,728**  
Part 3 of 9

**LIGHTNING MINERALS INC.**

**RENO 1 CLAIMS**

WEST GRID

GEOLOGY

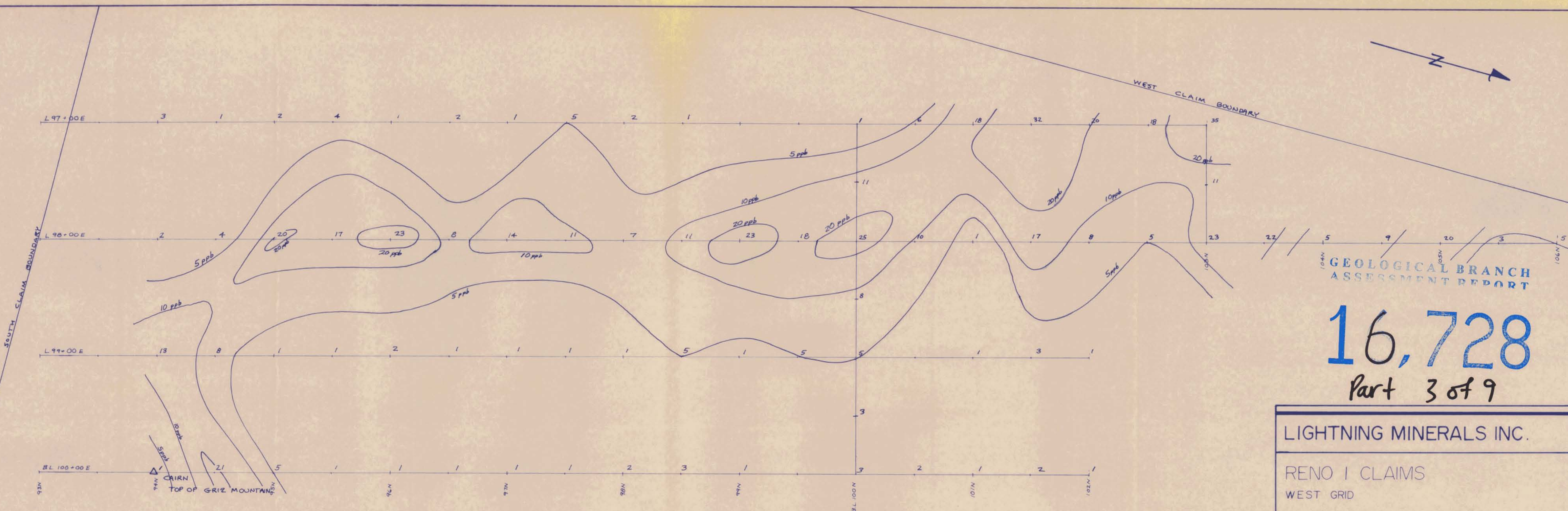
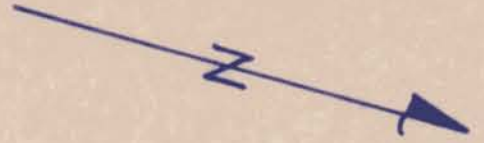
1:2,000

0 20 40 60 80 100 metres

FIG. 2

NOV. '87

GRID AND ALL DISTANCES MEASURED WITH METRIC HIP CHAIN



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**16,728**  
Part 3 of 9

LIGHTNING MINERALS INC.

RENO 1 CLAIMS  
WEST GRID

GEOCHEMICAL RESULTS - GOLD

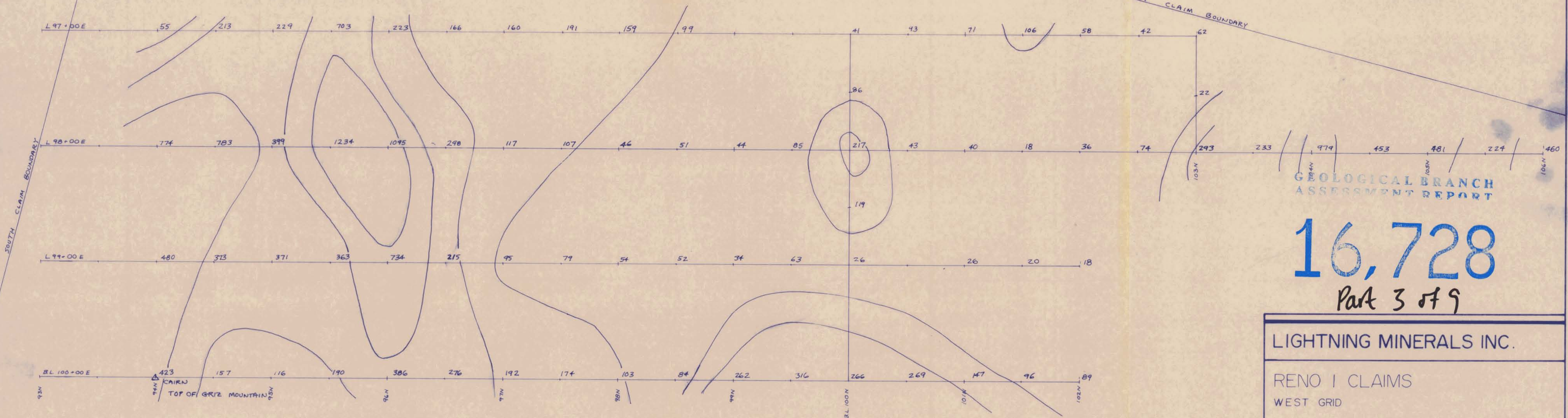
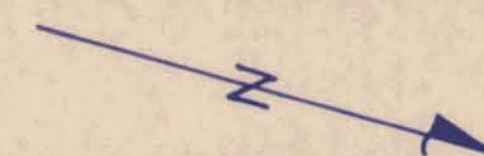
35 B HORIZON Au ppb

1:2,000 0 20 40 60 80 100 metres

FIG. 3

GRID AND ALL DISTANCES MEASURED WITH METRIC HIP CHAIN

NOV. '87



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

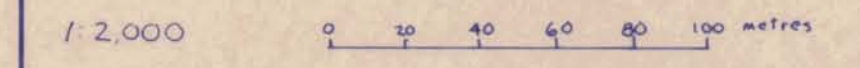
**16,728**  
Part 3 of 9

LIGHTNING MINERALS INC.

RENO 1 CLAIMS  
WEST GRID

GEOCHEMICAL RESULTS - ZINC

210 B HORIZON Zn ppm



GRID AND ALL DISTANCES MEASURED WITH METRIC HIP CHAIN

FIG. 4

NOV. '87