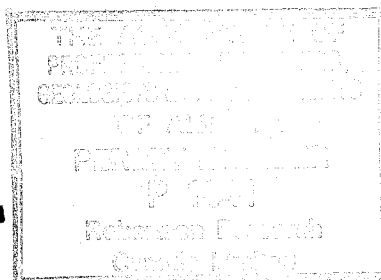


84-1289 - 13515

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**



13,515

12/85

**GEOCHEMICAL REPORT
MAMMOTH PROPERTY (MARIPOSITE CLAIMS)
NELSON MINING DIVISION
NTS 82 F/6**

Lat: 49°20'

Long: 117°15'

OWNER: GREENWICH RESOURCES, INC.

OPERATOR: GREENWICH RESOURCES, INC.

CONSULTANT CONTRACT: ROBERTSON RESEARCH CANADA LIMITED

BY

G.W. SINDEN
GEOTECHNOLOGIST

AND

DAVID S. EVANS, Ph.D., P. Geol.,
Consultant to
ROBERTSON RESEARCH CANADA LIMITED

DECEMBER, 1984

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CERTIFICATES

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1. SUMMARY

Thirty-two selected rock samples (systematic chip) have been collected as representative lithological samples from a feldspar porphyry unit on the Mammoth Claim Group. In addition, 311 soil samples, 87 stream sediment samples and 169 trench samples collected in 198~~8~~⁷ have been re-analyzed for gold to evaluate the precious metals potential of the property.

Significant but erratically distributed Au levels in soils, stream sediments and trenches have been identified. The anomalies are believed to reflect both known and unknown sources of gold-bearing mineralization associated with silicified shear zones and/or quartz veinings/stockworks. The feldspar porphyry unit is poorly enriched in gold.

Prospecting observations and assay results from reconnaissance exploration activities on the Mammoth claims indicate a favourable geological environment for multiple precious metal-bearing quartz veins and/or quartz stockwork systems and, possibly, disseminated bulk tonnage gold deposits.

Prospecting and soil sampling is recommended to establish new sources of gold-bearing mineralization and possible extension(s) of the Mammoth occurrence.

2. INTRODUCTION

2.1 Location and Access

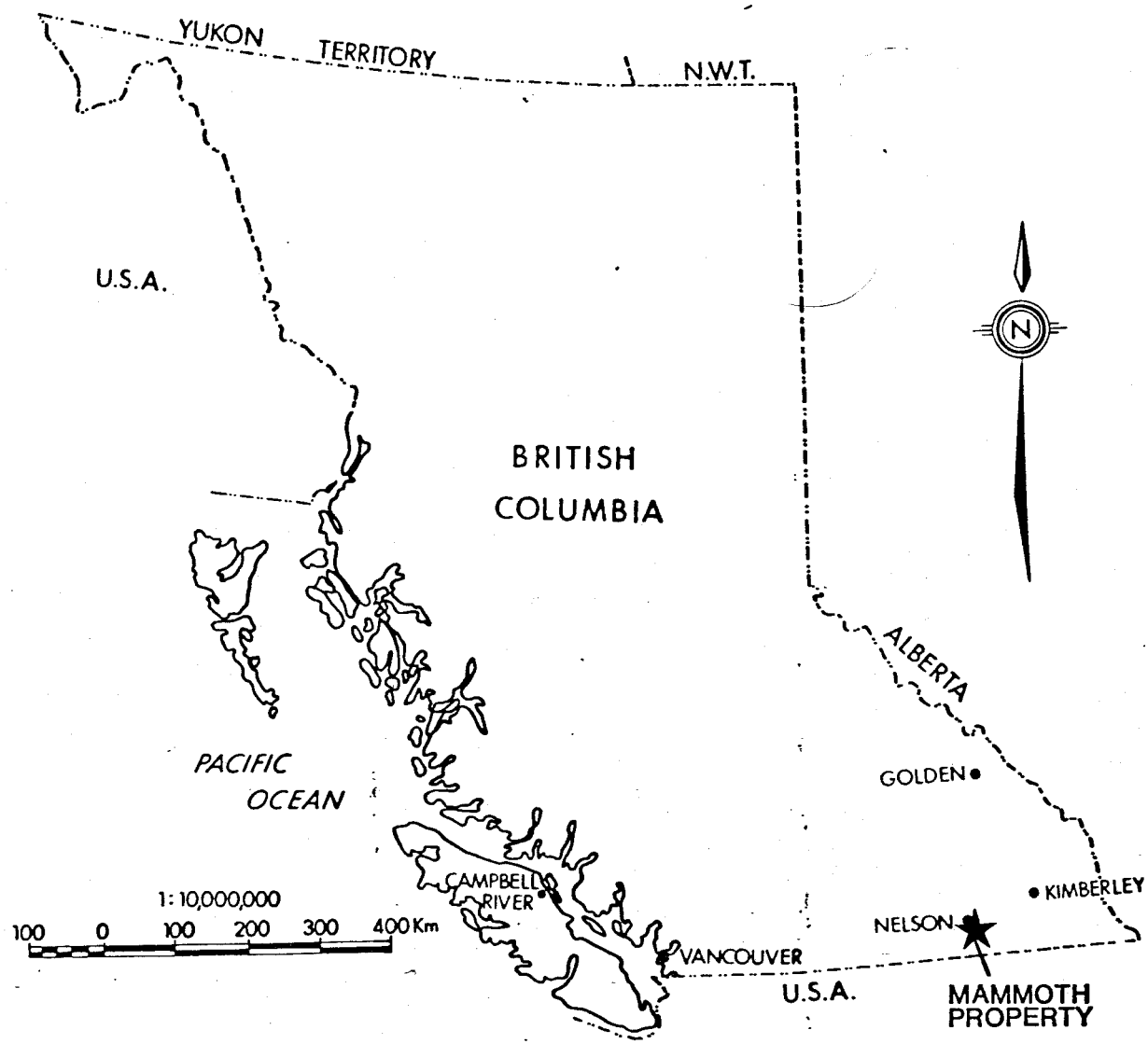
The Mammoth Property is located in the Nelson Mining Division of southeastern British Columbia at an elevation of 1640 m near the headwaters of Keno Creek, approximately 15 km south-southwest of the city of Nelson (Figure 1).

The Mammoth Property is accessible by a forestry road to Provincial Highway 6 between Nelson and Salmo B.C.

TABLE 1

MINERAL CLAIMS

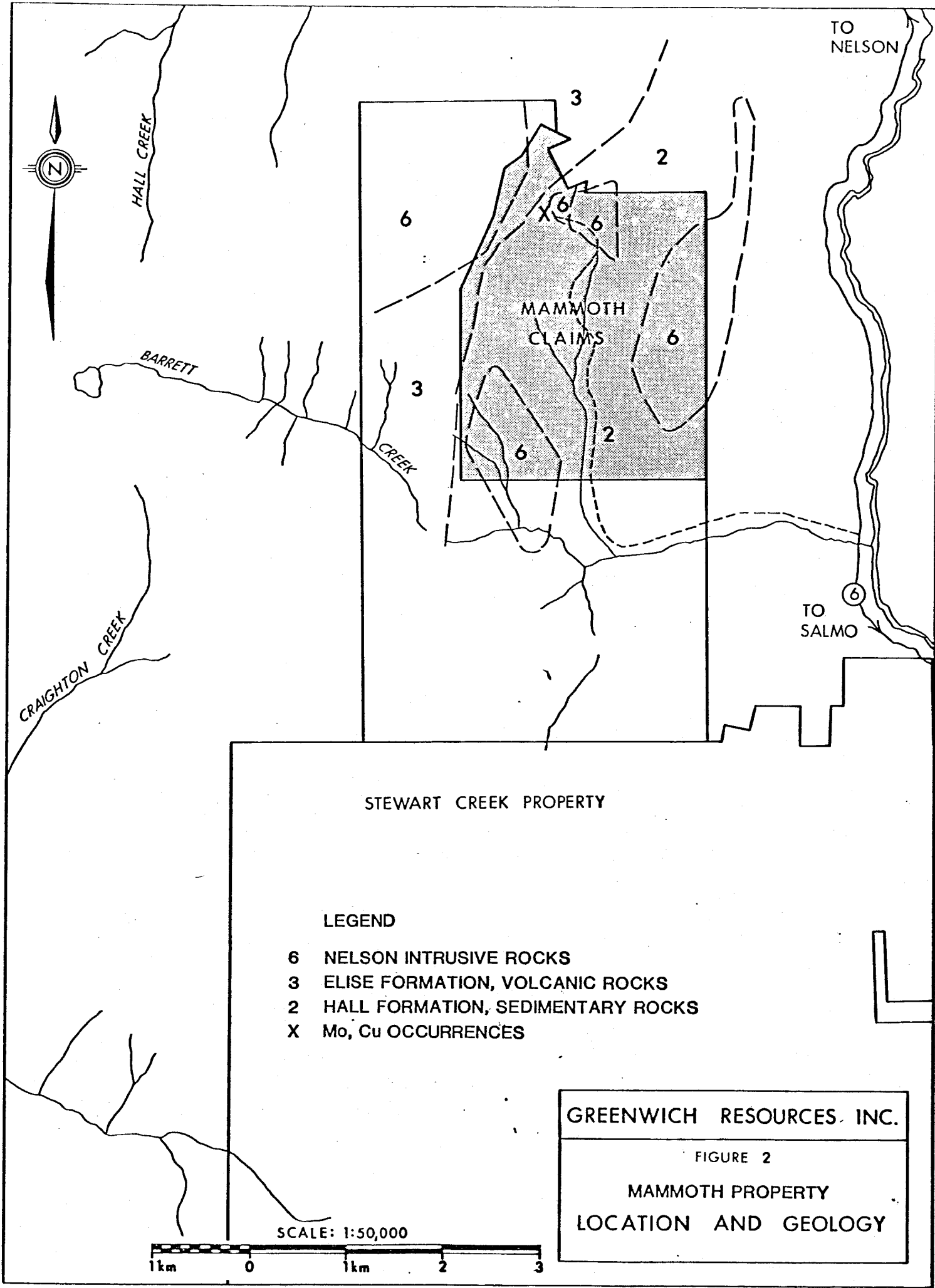
<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Owner</u>
L14692	1	471	Greenwich Resources Inc.
L14693	1	472	Greenwich Resources Inc.
L14695	1	473	Greenwich Resources Inc.
L14880	1	474	Greenwich Resources Inc.
L15034	1	475	Greenwich Resources Inc.
L15035	1	476	Greenwich Resources Inc.
L15036	1	477	Greenwich Resources Inc.
L14694	1	583	Greenwich Resources Inc.
Mariposite #1	20	1978	Greenwich Resources Inc.
Mariposite #2	6	1979	Greenwich Resources Inc.



GREENWICH RESOURCES INC.

FIGURE 1

PROPERTY INDEX MAP



TO NELSON

HALL CREEK

BARRETT

CREEK

CRAIGHTON CREEK

TO SALMO

STEWART CREEK PROPERTY

LEGEND

- 6 NELSON INTRUSIVE ROCKS
- 3 ELISE FORMATION, VOLCANIC ROCKS
- 2 HALL FORMATION, SEDIMENTARY ROCKS
- X Mo, Cu OCCURRENCES

GREENWICH RESOURCES INC.

FIGURE 2

MAMMOTH PROPERTY
LOCATION AND GEOLOGY

SCALE: 1:50,000



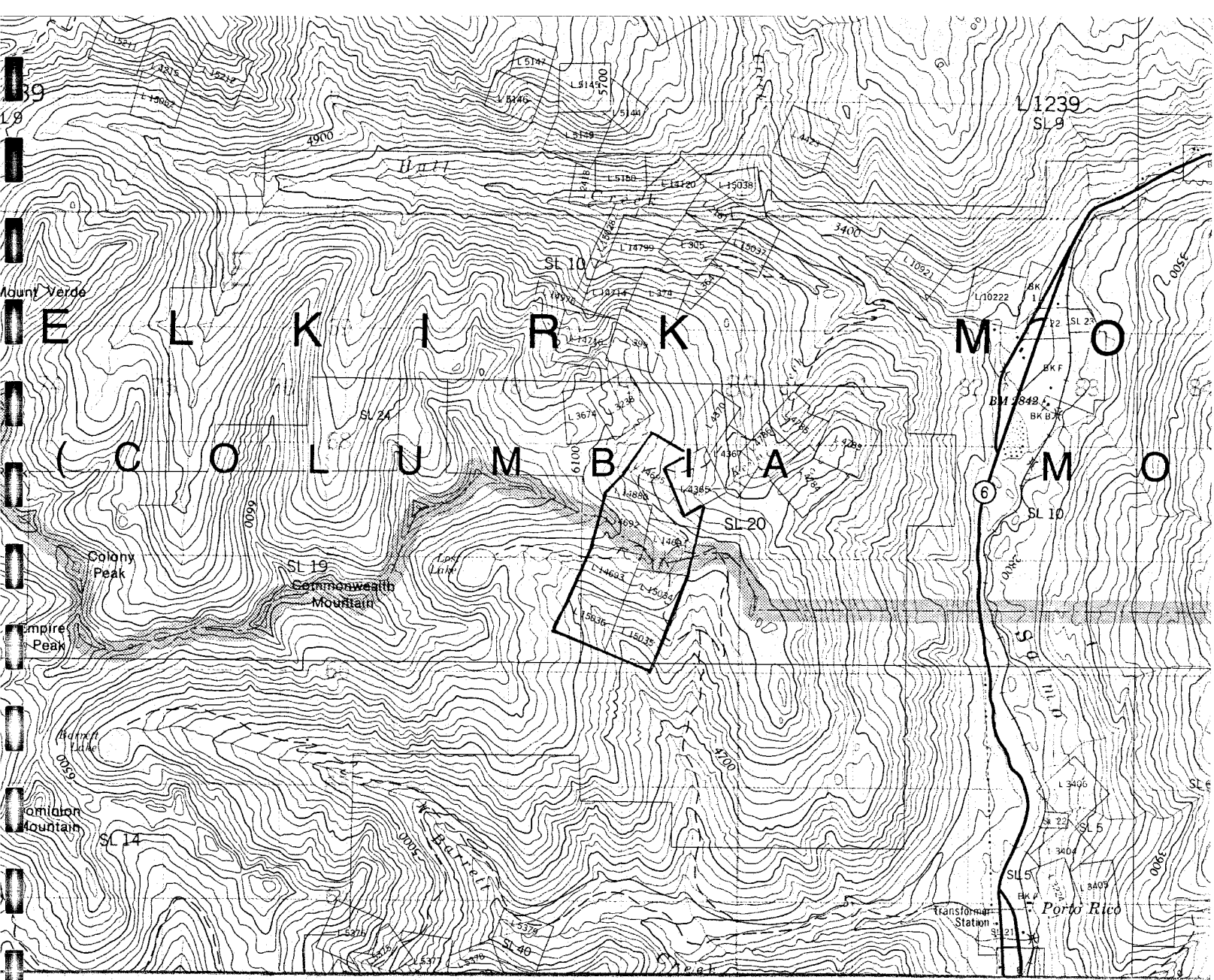


FIGURE 2A

LOCATION REFERENCE SUPPLEMENTAL

NAME OF CLAIM	RECORD NO.	LOT NO.
MAMMOTH	471	L14692
MAMMOTH NO. 1	472	L14693
T.N.T.	473	L14695
T.N.T. FR.	474	L14880
MAMMOTH FR.	475	L15034
MAMMOTH NO. 4	476	L15035
MAMMOTH NO. 3	477	L15036
MAMMOTH NO. 2	583	L14694

2.2 Physiography and Climate

Topography is rugged. Outcrop is abundant at higher elevations, while valleys tend to be heavily vegetated and poorly exposed.

The climate of the West Kootenay Region is characterized by warm summers, normally extending from May to September, a cool and damp fall and spring and relatively mild winters. Snowfall usually exceeds 2 m and restricts normal winter exploration activities.

3. MINERAL OCCURRENCES

3.1 History

Recorded exploration and mining activities on the Mammoth property extend back as far as 1917 when early developers pursued sulphide mineralization (pyrite, chocopyrite) in small open cuts, a tunnel and a shaft. Interest was directed primarily at gold and a sample taken along the bottom of an open cut near the shaft assayed: trace Au, 1.6 oz/ton Ag, and 0.6% Cu (B.C. Ministry of Mines Report, 1917, page 171).

Further work during the 1920's was also directed at Au-Cu-Ag. Most of the work consisted of trenching, the most promising of which exposed 8 m of Cu-Au mineralization averaging 1.5% Cu and (approximately) \$70.00 in Au. A 30 m tunnel intersected the subsurface extension of this mineralization at a depth of 15 m (B.C. Ministry of Mines Report, 1920, page 143).

Activities shifted to exploration for disseminated copper-molybdenum mineralization in the late 1960's. Erratic, but widespread disseminated copper and molybdenum sulphides are found in a volcano-sedimentary assemblage of Jurassic age intruded by Cretaceous granitic rocks of the Nelson Batholith. Old drill core assays have been recorded up to 0.68% Mo and 0.627% Cu (limited widths) and new trench assays up to 0.066% Mo and 1.66% Cu (Croteau, 1971). The geological setting and environment is similar to porphyry systems found elsewhere in British Columbia and the western United States.

4. GEOLOGY

4.1 Regional Geology

The Mammoth Property lies within the Bonnington Map-Area and has been geologically mapped and described by Mulligan, 1952 and Little, 1960 (Figure 2).

The Nelson-Salmo area is underlain by a north-south trending Mesozoic volcano-sedimentary package wedged in Nelson Plutonic Rocks flanking to the east and west.

Small and large intrusive outliers infer a variable thickness for cover of pre-Nelson rocks. The major structure appears to be a syncline, the trough of which is primarily occupied by Hall Formation rocks.

4.2 Local Geology

Three major geological formations are exposed on the Mammoth Property (Figure 2). Hand (1982) has described the geology in detail.

4.2.1 Hall Formation

The Hall Formation consists of conglomerate, greywacke-sandstone, quartzite, banded siltstones and cherty quartzitic siltstones, and argillites, with minor intercalated flows, tuffs and agglomerates.

The metasedimentary rocks are primarily siltstone/argillite, with minor lenses of sandstone, greywacke and conglomerate.

The siltstone is, for the most part, a black siliceous unit that contains varying amounts of pyrite. The banded siltstone is generally less pyritiferous than the massive siliceous variety that outcrops near sulphides. This siltstone is very rusty in appearance and highly fractured when in contact with the intrusives.

4.2.2 Elise Formation

The Elise Formation conformably overlies the Hall Formation and consists primarily of dark green augite and augite feldspar porphyry flows, breccias and agglomerates. The breccias and agglomerates reflect a variety of source rocks and are highly altered. In the area of the granitic contact, rocks have been metamorphosed to lower greenschist facies. Skarn is present at the Mammoth Property and reflects on the presence of limestones and/or limey horizons in the Elise and/or Hall Formation.

Within the augite porphyry are minor lenses of agglomerate some of which can be correlated for a few hundred metres and andesite and basaltic flows, both massive and porphyritic varieties.

4.2.3 Nelson Intrusive Rocks

The Nelson Intrusives include massive granite, granodiorite, quartz-diorite and dyke facies. Intrusives on the Mammoth Property comprise three main types. Granodiorite outcrops over a large portion of the western claim boundary area. This is a white in colour and contains porphyritic phases as well as granitic (pink) phases. On the extreme east of the property Nelson Intrusives are again exposed but here the rock has a porphyritic nature and

can be distinguished from the western granodiorite. The other main intrusive on the property is a feldspar porphyry that intrudes earlier batholithic phases. These intrusions are small; generally less than 500 metres and striking in a north-south direction. Host rocks in the vicinity of these intrusions are normally oxidized and heavily fractured. Other intrusives on the property include late stage diabase, lamprophyre and aplite dykes that cut all rock units.

The Nelson Intrusives show sharp contacts to other rock units and local faults appear to have been instrumental in emplacement of the main batholith and satellites.

5. GEOCHEMISTRY

5.1 Stream Sediment Samples

A reconnaissance stream sediment survey (87 samples) was carried out in 1980² on the Mammoth claims to assess copper and molybdenum potential. Stream sediments collected at 50m intervals from the active channel in locations where sediment fines accumulated have been reanalyzed for Au in 1984.

Results are plotted on Figure 4 and a geostatistical summary can be found in Appendix 4. Gold distribution is erratic and no consistent anomaly development or relationship to geology(s) is readily apparent. The patterns are characteristic of small localized occurrences of near-surface gold mineralization.

5.2 Soil Samples

A reconnaissance soil survey was carried out in 1980² on the Mammoth claims to assess copper and molybdenum potential (Hand, op. cit). Three hundred and eleven soil samples collected at 25 m intervals were reanalyzed for Au in 1984. B Horizon soils at 15 to 25 cm depth were the preferred sampling media.

Results are plotted on Figure 5 and a geostatistical summary can be found in Appendix 4. Again, gold distribution is erratic and no discernible trend or relationship can be identified with reasonable confidence. As with the stream sediments, enrichments appear to reflect numerous small localized occurrences.

5.3 Trench Samples

One hundred and sixty-nine trench samples (selected grab) from old workings and representative lithologies were collected from the Mammoth claim in 1980² (Figure 6). Reanalysis for gold was carried out in 1984 and results are documented in Appendix 3. Figure 3 is a location reference map and the geostatistical summary is presented in Appendix 4.

Gold enrichment in old trench cuts appears to have some correspondence with Cu and Mo enrichments reported by Hand (op. cit.) but the relationship is not fully evident. Data suggests more study is needed to relate base and precious metals mineralization to rock types, local structures and alteration products and patterns.

5.4 Feldspar Porphyry Unit

^{Thirty}
~~Twenty~~-two "chip" samples have been collect from the feldspar porphyry intrusive rock unit during 1984 and analyzed geochemically for Au. Results (Figure 6) show weak, erratic Au enrichments but the unit does not appear sufficiently mineralized to account for the extensive soil and stream sediment anomalies. Based on this evidence, the "late" feldspar porphyry phase of the Nelson Intrusive Complex has not been either an important source of or an influence on precious metals localization on the Mammoth property.

6. CONCLUSIONS

1. Weak, but significant Au values have been identified in the stream sediments, soils and trenches on the Mammoth claims. The enrichments appear to reflect the presence of minor near-surface precious metal-bearing silicified fissure vein system(s). The relationship with copper and molybdenum-bearing mineralization is unknown.
2. The regional and local geological environment favours the possibility of additional occurrences of precious metal-bearing occurrences associated with silicification, quartz veins and stockwork bodies within the Mammoth Property.
3. Gold levels in near-surface samples collected from the Mammoth property may indicate promise for major precious metal potential at depth.

7. RECOMMENDATIONS

1. Detailed soil and rock geochemical surveys should be carried out to establish new sources(s) of bedrock gold on the Mammoth property.
2. During mapping and sampling emphasis should be placed on identifying silification, quartz veinings and geological contacts, particularly in association with Nelson Intrusives.
3. Ultimately, reconnaissance drilling accompanied by systematic sampling and analysis for gold will be necessary to fulfill the evaluation of the precious metals potential of the Mammoth property.

8. SELECTED REFERENCES

HAND, J.S., 1982.

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LITTLE, H.W., 1960.

Nelson Map-Area, West Half British Columbia (82 F
W1/2), G.S.C. Memoir 308, 205 p.

LITTLE, H.W., 1982.

Bonnington Map Area, British Columbia, G.S.C. Map 1571
A.

MULLIGAN, R., 1952.

Bonnington Map-Area, British Columbia, G.S.C. Paper
52-13.

CERTIFICATE

I, Gordon W. Sinden, currently residing at 1607, 123 - 10th Avenue S.W., Calgary, Alberta, T2R 1K8, hereby certify that:

1. I am a geological technologist and have practised my profession since 1977.
2. I am a graduate of Northern Alberta Institute of Technology (1977) in Mineral Resources Technology.
3. I am a Registered Engineering Technologist (Resources Technology) with the Alberta Society of Engineering Technologists.
4. I visited the Mammoth Property during the period July 1st to August 9th, 1984 and carried out the work described in this report.

Dec 17, 1984
DATE

Gordon Sinden
GORDON W. SINDEN

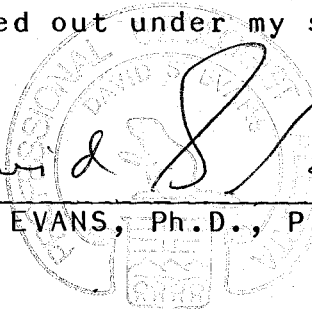
CERTIFICATE

I, David S. Evans, currently residing at 5232 Viceroy Drive N.W., Calgary, Alberta T3A 0V7, hereby certify that:

1. I am a mining exploration geologist and have practised my profession since 1966.
2. I am a graduate of the University of British Columbia with a B.Sc. (1966) in Chemistry and Geology, and a graduate of the Royal School of Mines, University of London (U.K.) with a Ph.D. (1971) in Applied Geochemistry.
3. I am a registered Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, a member of the Society of Exploration Geochemists, and a fellow of the Geological Society of Canada.
4. I visited the Mammoth Property on August 9th, 1984.
5. The work in this report was carried out under my supervision.

Dec 17, 1984

DATE


David S. Evans

DAVID S. EVANS, Ph.D., P.Geol.

APPENDIX 1

ANALYTICAL INFORMATION

Laboratory: TerraMin Research Labs Ltd.
Calgary, Alberta

Mesh Size: -80/soils and stream sediments
-100/rocks

Extraction: For Cu: HN03/HCl04 to dryness, taken
up in HCl .

For Au/Ag: Fire Assay fusion,
cupellation and acid
dissolution of precious
metals bead.

Analysis: Atomic Absorption

APPENDIX 2

GEOCHEMICAL DATA



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ANALYTICAL REPORT

Job # 84-010

Robertson Research

Date Jan. 30, 1984

Client Project 5013 Mammoth

trenches

Page 1/7

Sample No.	Au ppb
130101	18
130102	34
130103	26
130104	16
130105	14
130201	22
130202	76
130203	26
130301	14
130401	30
130402	24
130403	8
130404	34
130501	14
130502	22
130601	456
130602	548
130603	96
130604	98
130605	96
130606	20
130607	6
130701	1680
130702	38
130703	38



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Job # 84-010

Date

Client Project 5013

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Sample No.	Au ppb
130704	28
130705	26
130706	16
130707	42
130708	26
130709	24
130710	42
130711	30
130712	164
130713	14
130714	22
130715	12
130801	584
130901	332
130902	18
130903	216
130904	166
130905	162
130906	268
130907	338
130908	304
130909	132
130910	24
130911	74
130912	664

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Date

Client Project 5013

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Sample No.	Au ppb
130913	84
130914	50
130915	248
130916	68
130917	74
130918	104
130919	324
130920	386
130921	660
130922	294
130923	356
130925	1080
130926	346
130927	416
130928	1960
130929	540
130930	322
131001	16
131002	10
131003	18
131004	10
131005	10
131006	8
131101	14
131102	12



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Date

Client Project 5013

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Sample No.	Au ppb
131201	342
131202	38
131203	12
131204	110
131205	132
131207	66
131208	24
131209	94
131210	58
131211	34
131212	500
131213	186
131301	12
131302	10
131303	16
131304	6
131305	8
131306	110
131307	12
131308	14
131309	12
131310	26
131311	10
131312	46
131313	12



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Job # 84-010

Date

Client Project 5013

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Sample No.	Au ppb
131314	10
131315	14
131316	6
131317	12
121318	16
131319	10
131320	6
131321	8
131322	10
131323	22
131324	8
131325	28
131326	14
131327	12
131328	26
131329	2
131330	-2
131331	6
131332	4
131333	4
131334	2
131335	4
131336	4
131337	22
131338	12

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Sample No.	Au ppb
131339	2
131340	-2
131341	2
131342	8
131343	18
131344	14
131345	16
131346	8
131347	20
131348	6
131349	8
131350	8
131401	6
131402	6
131403	6
131404	4
131405	6
131406	12
131407	18
131408	14
131409	10
131410	6
131411	12
131412	10
131413	10



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ANALYTICAL REPORT

Job # 84-010

Date

Client Project 5013

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Sample No.	Au. ppb
131414	8
131415	6
131416	6
131417	10
131418	14
131419	8
131420	14
131421	12
131422	8
131501	26
131502	234
131503	148
131504	10
131505	28
131506	400
131507	334
131508	60
131509	44
131510	14

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-016

Robertson Research

Date February 9, 1984

from 81-119 & 81-164

Client Project *MAMMOTH SOILS*

Page 1/5

Sample No.	Au ppb	Note: Minus sign indicates less than figure given.
L 9 N 375 W	-8	
350	-4	
325	-2	
300	-4	
275	-8	
250	4	
225	-4	
200	144	
175	-4	
100	-2	
075	-4	
050	276	
025	4	
L 8 N 500 W	4	
450	2	
425	-8	
400	-4	
375	-2	
350	-2	
325	18	
300	-8	
275	-2	
250	-2	
225	-4	
200	2	

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-016

Date

Client Project

Page 2/5

Sample No.	Au ppb
L 8 N 175 W	-2
150	-2
125	-8
100	-4
075	-8
050	-4
025	-2
000	-8
025 E	6
150	-8
175	-8
200	-8
225	-2
250	-8
275	24
300	12
L 7 N 375 W	-8
350	-8
325	-4
300	-8
250	24
200	-8
175	-8
150	-8
100	-4

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ANALYTICAL REPORT

Job # 84-016

Date

Client Project

Page 3/5

Sample No.	Au ppb
L 7 N 075 W	-4
050	-8
025	16
000	-2
L 6 N 400 W	20
375	-2
350	10
325	2
275	6
250	-2
225	-2
200	-2
175	-2
150	-2
100	-2
075	8
025	-2
L 4 N 400 W	-4
375	-2
350	-4
325	-2
300	-2
275	-2
250	80
225	-4

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-016

Date

Client Project

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Sample No.	Au ppb
L 4 N 200 W	-4
175	-2
150	-2
125	-2
100	-4
075	2
000	-4
L 8 S 900 W	-2
875	-4
850	-4
825	-4
800	-8
775	-8
750	-8
725	-8
700	-4
675	-4
650	-8
625	16
600	2
575	-2
550	-2
525	-2
500	-4
L 12 S 900 W	-2

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ANALYTICAL REPORT

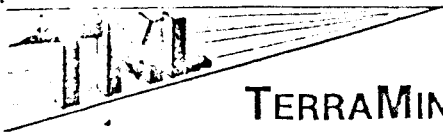
Job # 84-016

Date

Client Project

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Sample No.	Au ppb
L 12 S 875 W	10
850	-4
825	-4
800	-2
775	-4
750	-4
725	-2
700	-8
675	-2
650	2
625	6
600	-4
575	-2
550	-4
525	16
500	8
475	-2
450	-2
425	40
400	24
375	52
350	2
325	-4
300	-8



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Robertson Research

Date Feb.25, 1984

Client Project Mammoth

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Sample No.	Au ppb
L 500 N 000 BL	4
025 W	4
050	4
100	16
125	2
150	-2
175	2
200	-2
250	16
275	4
300	12
325	64
350	2
375	2
400	4
L 300 N 000	-4
025 W	4
050	-8
075	-4
100	-4
125	12
150	-4
175	-2
225	120
250	-4



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

Page 2/11

Sample No.	Au ppb
L 300 N 275 W	-8
300	20
325	8
350	40
375	-8
400	-8
425	-8
450	8
475	12
500	-8
525	-8
550	-4
575	-4
600	-8
625	-8
650	8
675	-8
700	-8
725	-8
750	16
775	-8
800	8
825	-8
850	-8
875	24



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ANALYTICAL REPORT

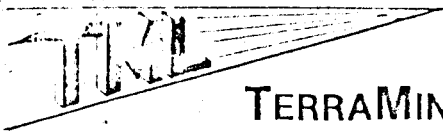
Job # 84-022

Date

Client Project Mammoth

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Sample No.	Au ppb
L 300 N 900 W	8
L 200 N 000	-2
025 W	-2
050	8
075	4
100	-4
125	6
150	8
175	46
200	4
225	-2
250	-4
275	-2
300	-4
325	-4
350	-4
375	-8
400	-2
425	-8
450	-2
475	-2
500	-2
L 100 N 000	-4
025 W	-4
050	8



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-022

Date

Client Project Mammoth

Page 4/11

Sample No.	Au ppb
L 100 N 075 W	4
100	-4
125	-4
150	-8
200	-8
225	8
250	4
275	16
300	328
325	8
350	8
375	-8
400	-8
425	-8
450	-8
475	12
500	-8
525	4
550	16
575	-8
600	-8
L 000 000	-4
025 W	6
050	40
075	2



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

Page 5/11

Sample No.	Au ppb
L 000 100 W	-2
125	32
150	-4
175	8
200	4
225	4
250	-4
275	18
300	4
325	16
350	4
375	8
400	2
425	-4
450	2
475	2
500	4
525	-8
550	-4
575	-2
600	4
L 4 S 300 W	-4
325	-8
350	-8
375	-8



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

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Sample No.	Au ppb
L 4 S 400 W	-8
425	-8
450	I.S.
475	-8
500	-8
525	-8
550	-8
575	-8
600	-8
625	4
650	-8
675	-8
700	-8
725	-8
750	-8
775	-8
800	-8
825	64
850	-2
875	-8
900	-8
L 16 S 300 W	20
325	-4
350	-4
375	8



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

Page 7/11

Sample No.	Au ppb
L 16 S 400 W	2
425	8
450	8
475	16
500	-2
525	-2
550	4
575	2
600	-2
625	2
650	4
675	-2
700	-2
725	8
750	8
775	4
800	-2
850	-8
900	-4
L 20 S 300 W	8
325	2
350	4
375	-4
400	-2
425	-2



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

Page 8/11

Sample No.	Au ppb
L 20 S 450 W	-4
475	-4
500	-4
525	-8
550	8
595	8
600	-4
625	-4
650	-4
675	26
700	4
725	4
MM 175 S	14
200	24
225	28
250	-2
275	114
300	148
325	4
350	8
375	72
400	6
418	248
425	18
450	18



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

Page 9/11

Sample No.	Au ppb
MM 475 S	18
500	52
525	10
550	16
575	16
600	26
625	36
650	134
675	14
700	10
725	24
750	192
775	8
800	4
825	14
850	4
875	2
900	22
925	34
950	104
975	6
1000	184
1025	62
1050	4
1075	10



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

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Sample No.	Au ppb
MM 1100 S	116
1125	12
1150	2
1175	30
1200	2
1225	2
1250	4
1275	2
1300	8
1325	12
1350	4
1375	8
1400	-2
MME 418 S	14
MMF	2
MMG	6
MMH	8
MAA 0+00	2
MAB 0+00	8
MAC 0+00	2
MAC 0+25 S	108
MAD	56
MA 0+00 N	-2
MA 0+25 S	4
0+50	4



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-022

Date

Client Project Mammoth

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Sample No.	Au ppb
MA 0+75 S	36
1+00	2
1+25	-8
1+50	6
MA-1 125 S	8
GR 050 S	-8
150	-8
225	-4
250	-8
CON #2 GR 250 S	-8
325	-2
375	-8
400	-4
450	-4
475	4
550	68
575	-4
675	184
750	4
900	-8
950	-4
1000	8
1050	8
1175	8



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-147

Date

Client Project Mammoth

Page 11/12

Rock	Sample No.	Au ppb	Ag ppb	Cu ppm
	MT-13-1	12	860	2040
	2	24	1050	2600
	3	26	1800	4600
	4	508	2500	5300
	5	12	1050	2400
	6	-2	70	250
	MT-Adit Dump	8	1570	1270
	MT-Above Adit	10	930	630
	MFP-1	-2	120	
	2	-2	10	
	3	4	60	
	4	2	790	
	5	4	300	
	6	-2	100	
	7	-2	60	
	8	2	30	
	9	4	110	
	10	-2	100	
	11	2	70	
	12	-2	130	
	13	-2	30	
	14	-2	70	
	15	-2	20	
	16	4	30	
	17	-2	30	



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-147

Date

Client Project Mammoth

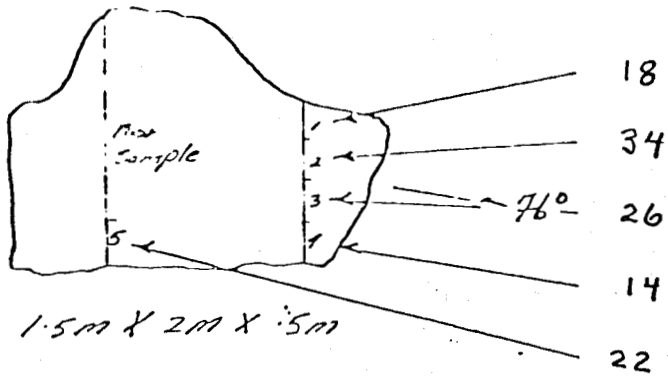
Page 12/12

Sample No. <u>Rock</u>	Au ppb	Ag ppb
MFP-18	2	40
19	2	40
20	-2	30
21	6	50
22	4	120
23	-2	10
24	-2	30

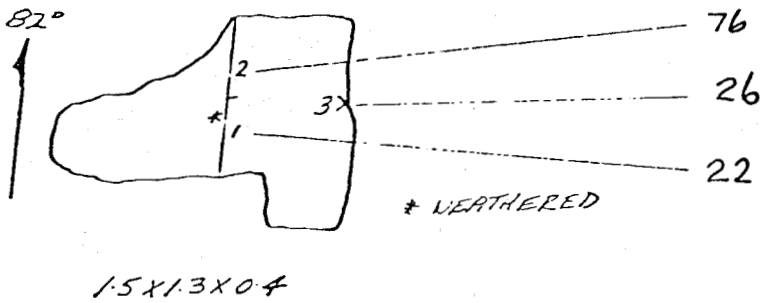
APPENDIX 3

GOLD IN TRENCHES

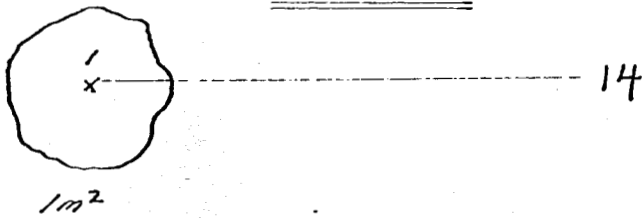
Trench #1 110



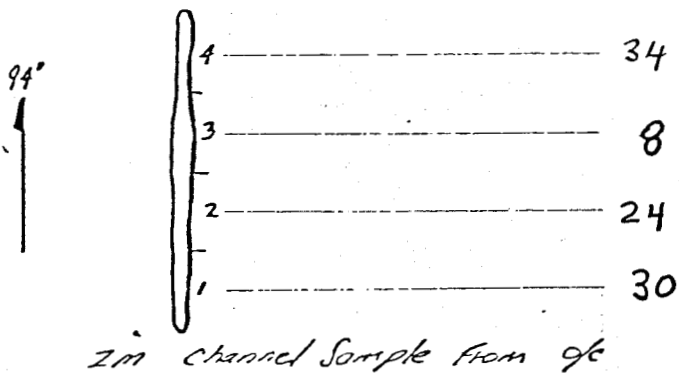
Trench #2



Trench #3

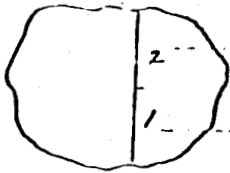


Trench #4



ALL VALUES IN PPB

TRENCH #5 A0

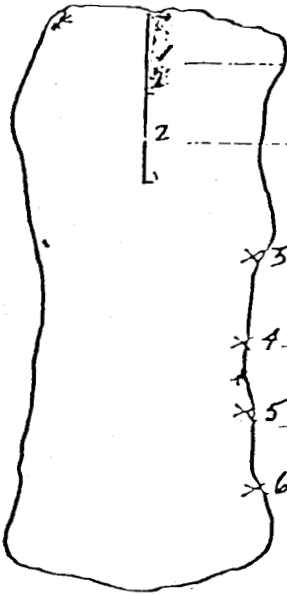


15 x 1 x 0.7

14

22

TRENCH #6



90°

15 x 3.5 x 1.35

456

548

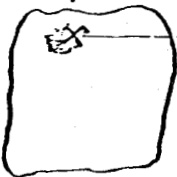
96

98

96

20

TRENCH #8



94°

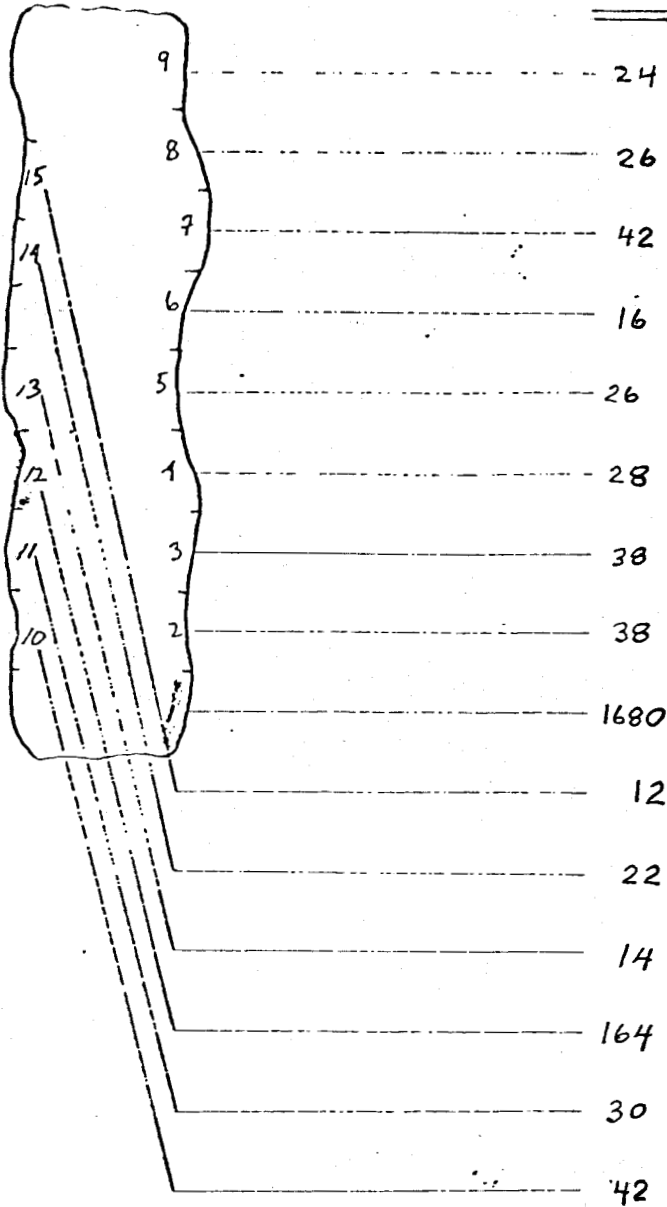
1 x 0.8 x 0.3

26

ALL VALUES IN PPB

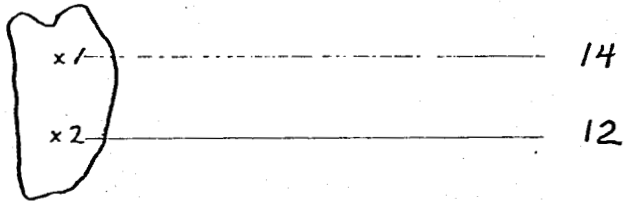
~~EXHIBIT 7~~

A0



4.5X1X0.5

TRENCH #11

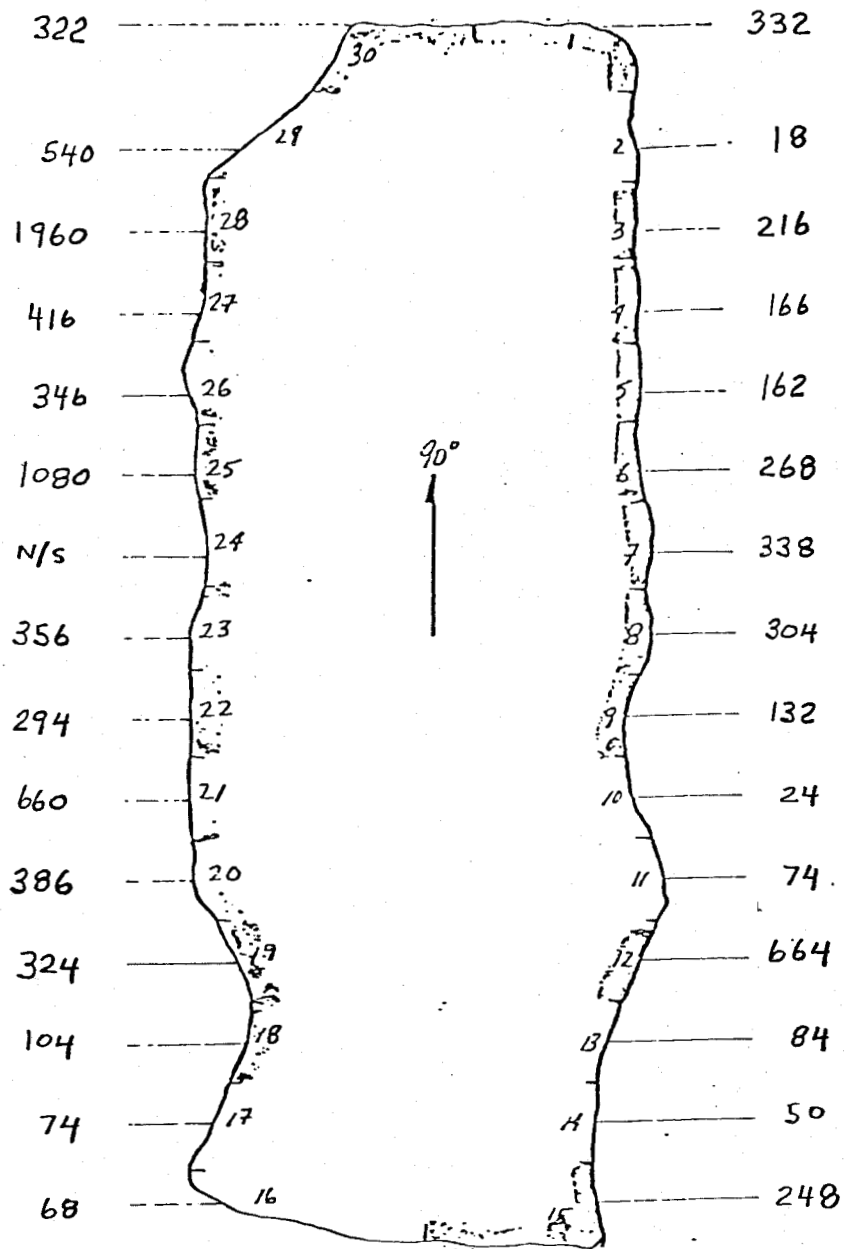


1X0.5X0.1

ALL VALUES IN PPB

TRENCH # 9

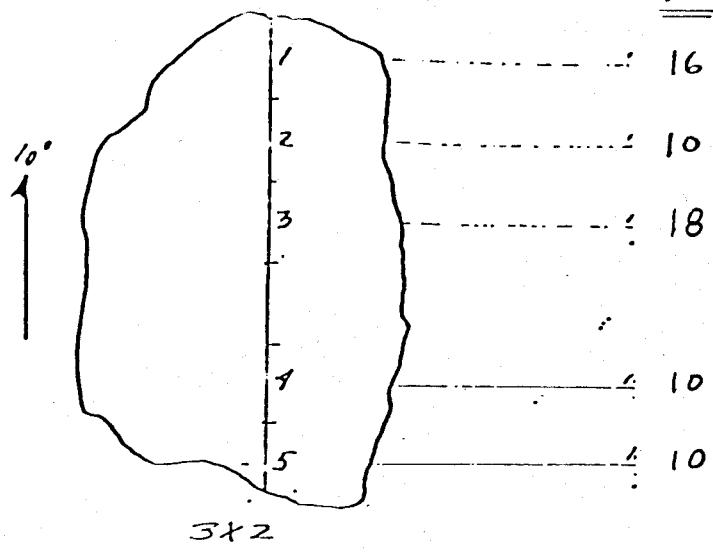
AU



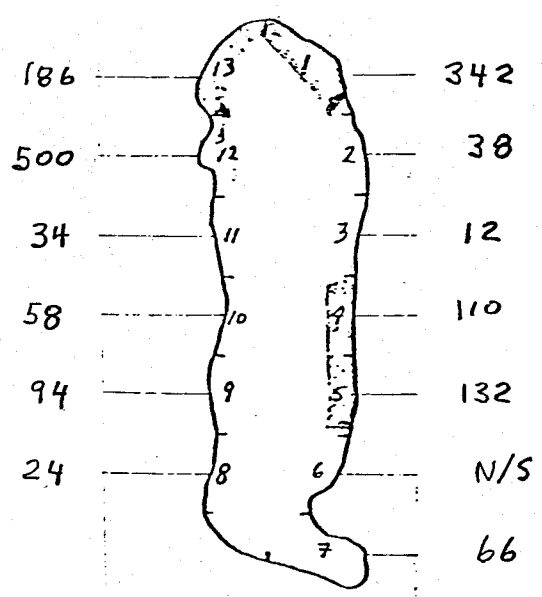
8x3x2

ALL VALUES IN PPB

TRENCH #10 AU



TRENCH #12 AU



3.5 x 2 x 1

ALL VALUES IN PPB

SECTION 13

40
12

14

28

8

22

12

10

10

16

6

8

110

12

14

12

26

4

4

22

12

2

2

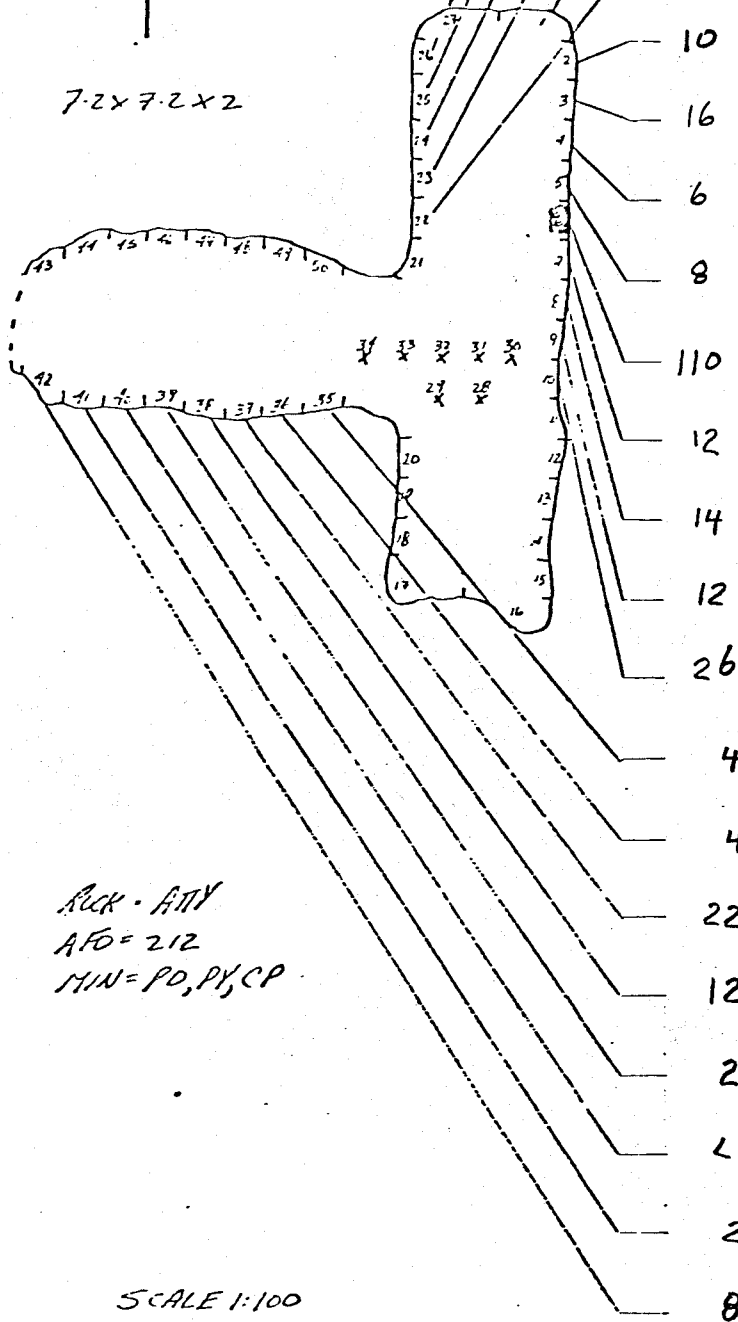
2

8

90°



7.2 x 7.2 x 2



31 32 33 34 35
27 28

Rock - ATN
AFO = 212
MIN = PD, PY, CP

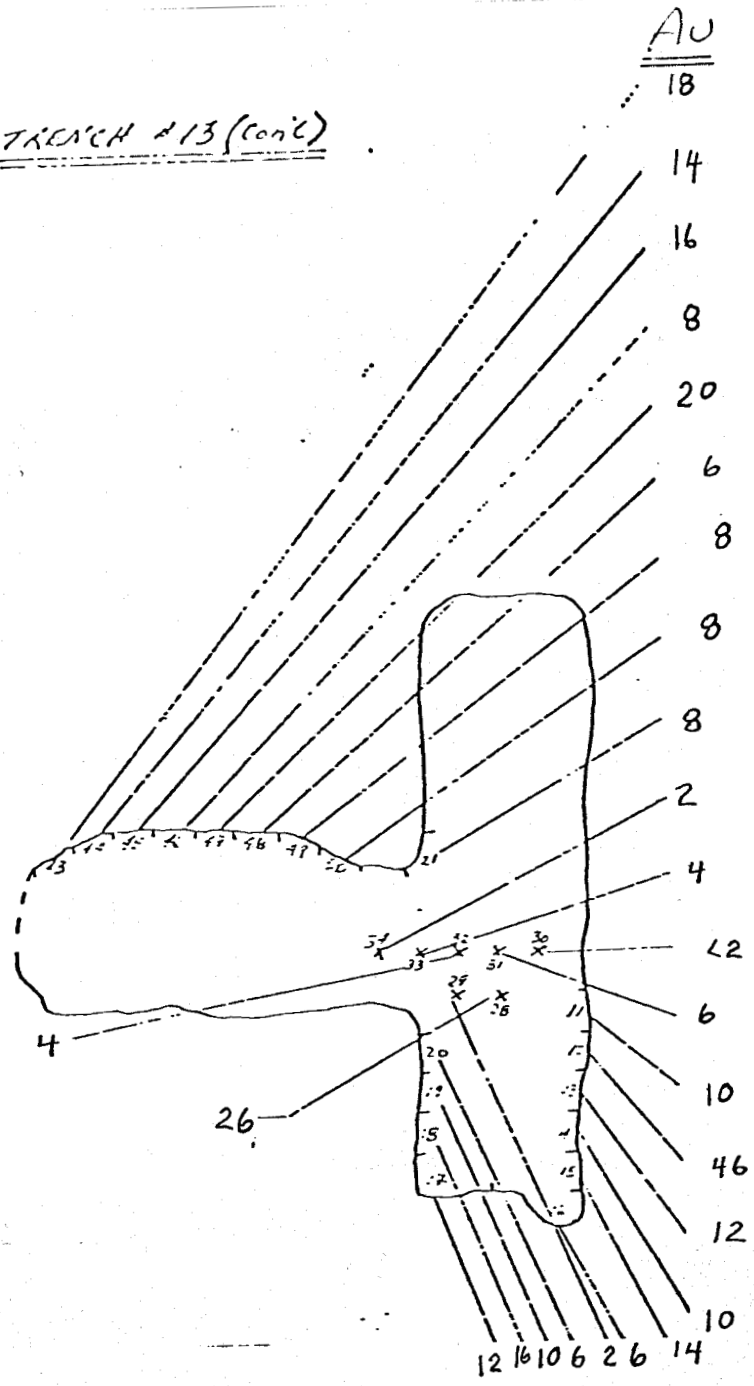
SCALE 1:100

ALL VALUES IN PPS

TRENCH #13 (cont)

AU

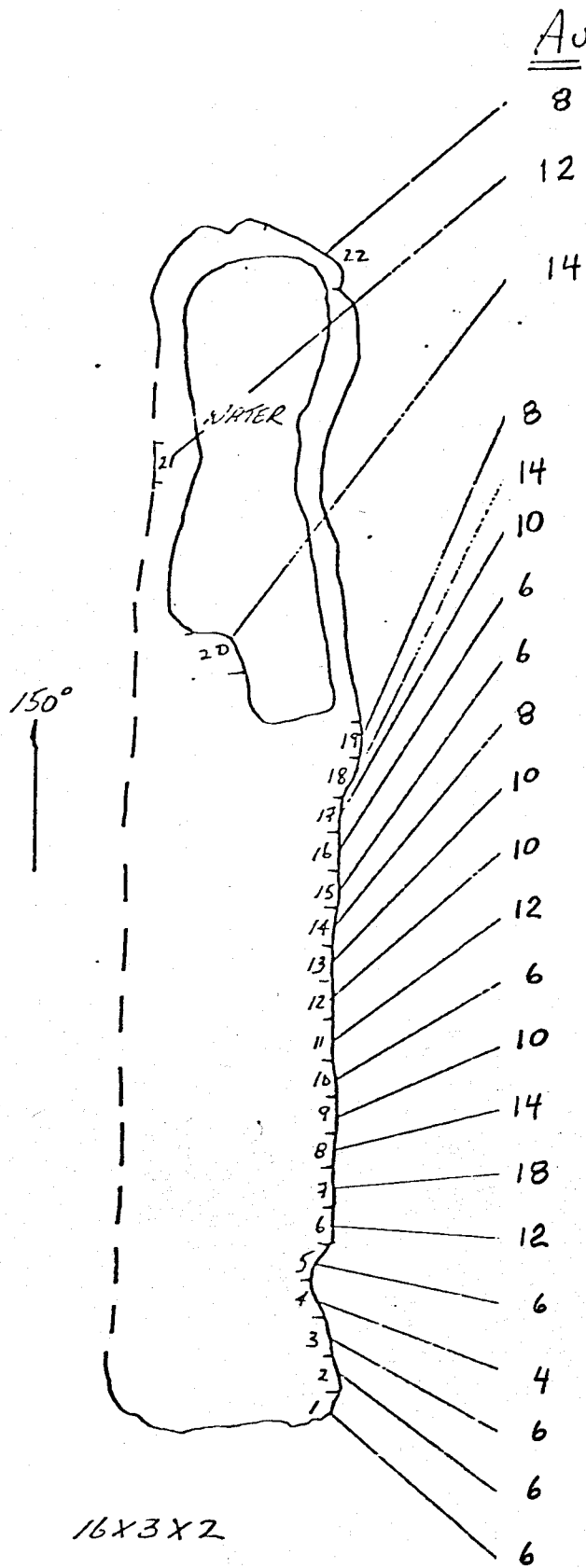
72x7-2x2



ALL VALUES IN PPb

SECTION # 14

A₀



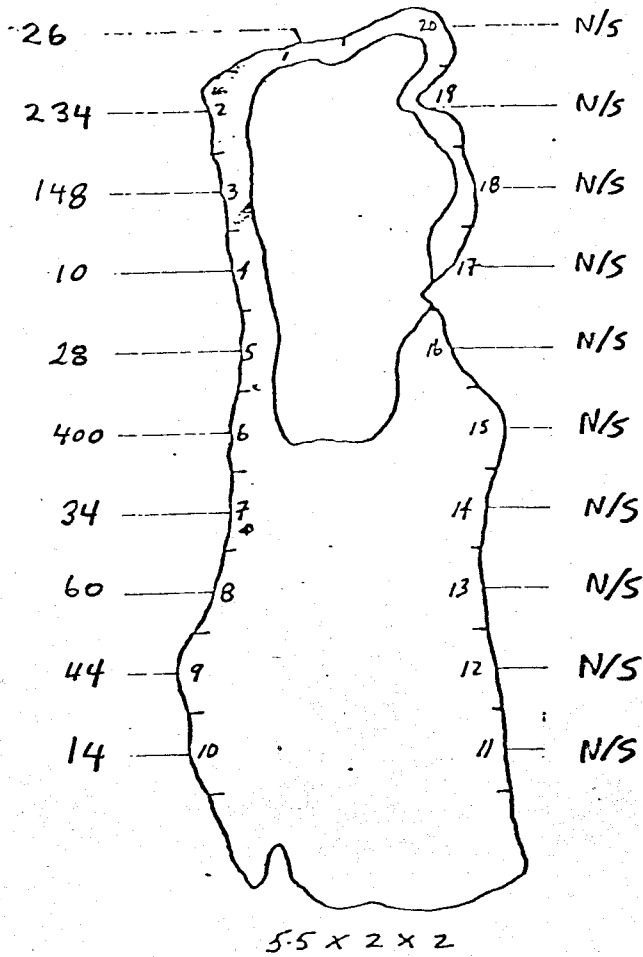
16X3X2

SCALE = 1:100

ALL VALUES IN PPB

TRENCH # 15

A0



ALL VALUES IN PPb

APPENDIX 4

GEOSTATISTICAL ANALYSES

STATISTICAL SUMMARY

Stream Sediments

No. of Samples:	87
Geometric Mean:	9.8 ppb
Standard Deviation:	4.2
Enrichment Threshold:	14 ppb

Soil Samples

No. of Samples:	311
Geometric Mean:	3.4 ppb
Standard Deviation:	2.8
Enrichment Threshold:	6.2 ppb

Trench Samples

No. of Samples:	169
Geometric Mean:	28.5 ppb
Standard Deviation:	4.7
Enrichment Threshold:	33.2 ppb

Feldspar Porphyry

No. of Samples:	32
Geometric Mean:	2.9 ppb
Standard Deviation:	4
Enrichment Threshold:	(not defined)

APPENDIX 5

STATEMENT OF
EXPLORATION EXPENDITURES

STATEMENT OF 1984 EXPENDITURES
MAMMOTH CLAIMS

NAME/ADDRESS	DAYS WORKED	WAGES			SUBSISTENCE		
		Days Worked	Daily Rate	Total Wages	Total Days	Rate Per Day	Amount
Gordon W. Sinden Senior Technologist Robertson Research Canada Ltd. 300, 604 - 1st Street S.W. CALGARY, Alberta T2P 1M7	July 1 to Aug 9/84	2	\$155.00	\$387.50	2	\$25.00	\$62.50
David S. Evans Exploration Manager 5232 Viceroy Drive N.W. Calgary, Alberta T3A 0V7	AUG 9/84		\$360.00	\$180.000		\$25.00	\$12.50
R. Tim Joveski Geological Assistant R.R. #1 NELSON, British Columbia V1L 5P4	July 1 to Aug 9/84	2	\$110.00	\$275.00	2	\$25.00	\$62.50
Chris Westerman Consulting Geologist c/o Greenwich Resources, Inc. 3174 - 1055 Dunsmuir Street P.O. Box 49336 Vancouver, B.C. V7X 1L6	AUG 9/84		\$350.00	\$ 175.00		\$25.00	\$12.50
		TOTAL \$1,017.50			TOTAL \$ 150.00		

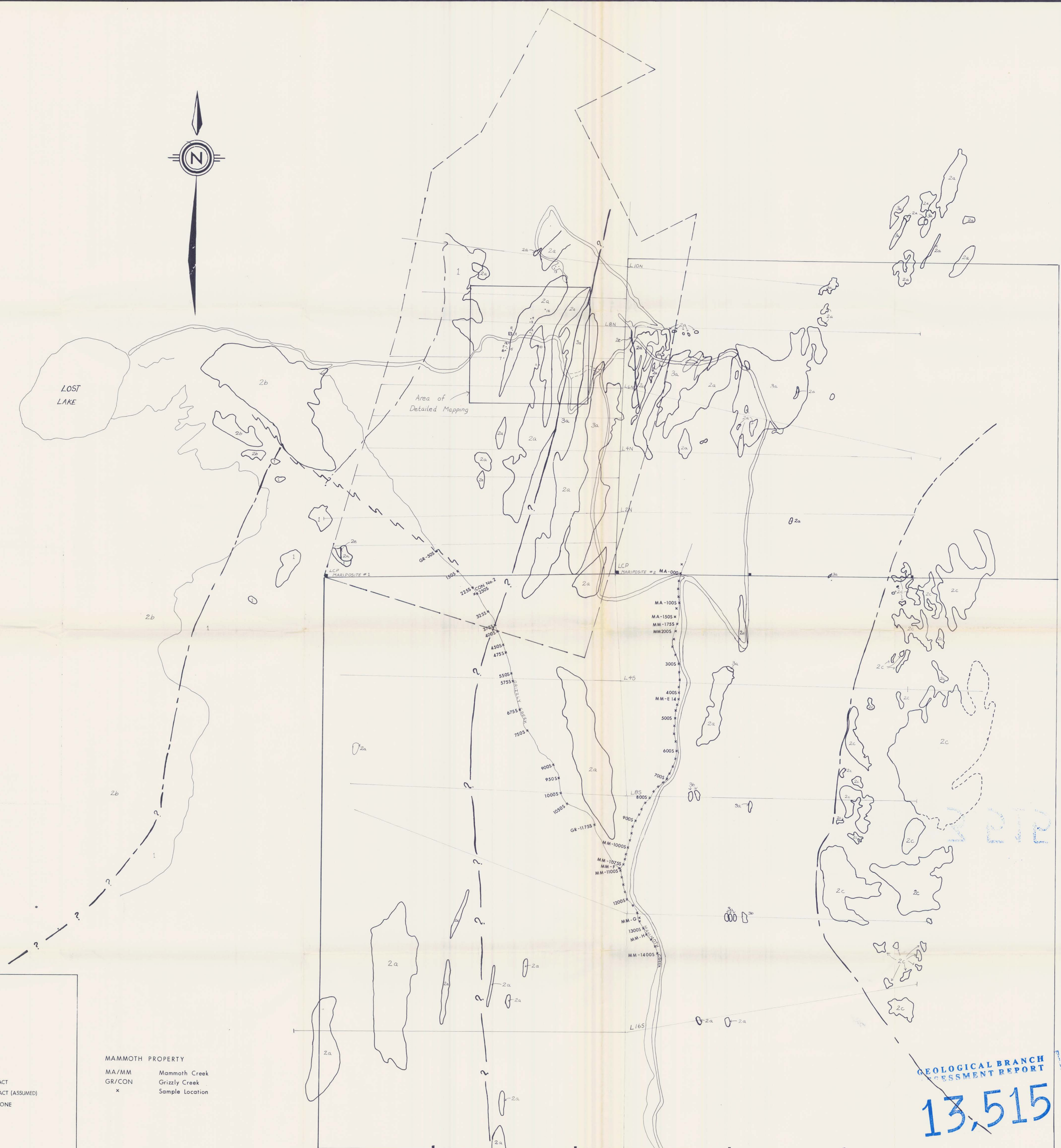
STATEMENT OF 1984 EXPENDITURES
MAMMOTH CLAIMS

Other Expenditures

Field Office Rental	\$ 25.00
Supplies and Equipment	50.00
Truck Rental (incl. gas, oil, & maintenance)	62.50
Helicopter mobilization	293.25
Analytical	5,681.00
Drafting	<u>100.00</u>
Total Other Expenditures	\$ 6,211.75

Summary

Total Wages	\$ 1,017.50
Total Subsistence	150.00
Total Other Expenditures	<u>6,211.75</u>
Total Project Costs	7,379.25
Report Preparation	<u>300.00</u>
TOTAL 1984 EXPENDITURES	\$ 7,679.25



LEGEND

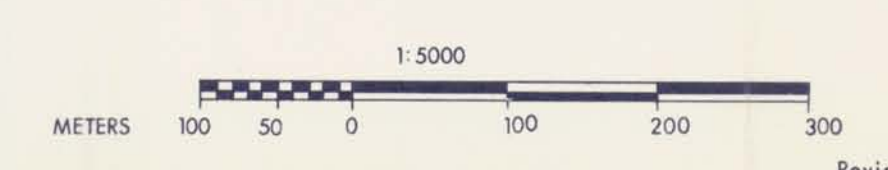
1 ELISE FORMATION
 2 NELSON INTRUSIVES
 2a FELDSPAR PORPHYRY
 2b WESTERN GRANITES
 2c EASTERN GRANITES
 2d LAMPROPHYTE & DIABASE DYKES
 3 HALL FORMATION SEDIMENTS
 3a SLTSTONE
 3b CONGLOMERATE
 3c GREYWACKE

--- GEOLOGICAL CONTACT
 -?--- GEOLOGICAL CONTACT (ASSUMED)
 ~~~~~ FAULT OR SHEAR ZONE  
 o SHAFT  
 7 NO. 7 TRENCH  
 [ ] OUTCROP  
 [ ] ACCESS ROAD  
 [ ] CREEK  
 - - - - - REVERTED CROWN-GRANT BOUNDARY LINE  
 - - - - - MARIPOSITE BOUNDARY LINES  
 ■ LCP MARIPOSITE NO. 1  
 ■ LEGAL CORNER POST

**MAMMOTH PROPERTY**  
 MA/MM Mammoth Creek  
 GR/CON Grizzly Creek  
 x Sample Location

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**  
**13,515**

THE ASSOCIATION OF  
 PROFESSIONAL ENGINEERS,  
 GEOLOGISTS AND ENVIRONMENTALISTS  
 OF ALBERTA  
 PERMIT NUMBER  
 P 1051  
 Regulatory Research  
 Canada Limited



Revised-Dec, 1984 - Steffany Erskine  
**GREENWICH RESOURCES, INC.**  
 MAMMOTH PROPERTY  
 Fig. 3  
 GEOLOGY & SAMPLE LOCATION REFERENCE

COMPILED BY: J.S. HAND  
 DRAWN BY: S. ZANDER  
 DATE: NOV, 1981  
 PROJ. No. 5013





**LEGEND**

1. ELISE FORMATION  
 2. NELSON INTRUSIVES  
 2a. FELDSPAR PORPHYRY  
 2b. WESTERN GRANITES  
 2c. EASTERN GRANITES  
 2d. LAMPROPHYRE & DIABASE DYKES  
 3. HALL FORMATION SEDIMENTS  
 3a. SILTSTONE  
 3b. CONGLOMERATE  
 3c. GREYWACKE

— GEOLOGICAL CONTACT  
 - - - GEOLOGICAL CONTACT (ASSUMED)  
 ~~~~~ FAULT OR SHEAR ZONE  
 □ SHAFT
 7 NO. 7 TRENCH
 [] OUTCROP
 [] ACCESS ROAD
 [] CREEK
 - - - REVERTED CROWN-GRANT BOUNDARY LINE
 [] MARIPOSITE BOUNDARY LINES
 [] LEGAL CORNER POST

MAMMOTH PROPERTY
 GOLD IN SILTS

MA/MM Mammoth Property
 GR/CON Grizzly Creek
 x Silt Sample Location

All Gold values in PPb

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

13,515

THE ASSOCIATED
 PROFESSIONAL ENGINEERS
 OF ALBERTA
 PERMIT NO. P 1041
 Robertson Inc.
 Calgary, Alberta



1:5000
 METERS 100 50 0 100 200 300
 Revised-Dec, 1984

Revised Dec., 1984 - S. Erskine

GREENWICH RESOURCES, INC.

MAMMOTH PROPERTY
 Fig. 4
 GOLD IN STREAM SEDIMENTS

COMPILED BY: J. S. HAND DATE: NOV., 1981
 DRAWN BY: S. ZANDER PROJ. NO.: 5013



LOST LAKE

Area of Detailed Mapping



LEGEND

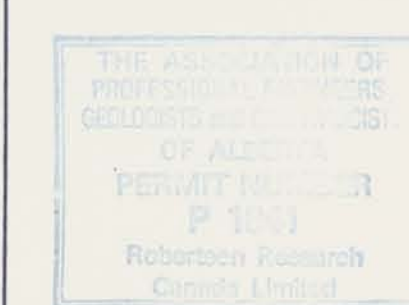
- 1. ELISE FORMATION
- 2. NELSON INTRUSIVES
 - 2a FELDSPAR PORPHYRY
 - 2b WESTERN GRANITES
 - 2c EASTERN GRANITES
- 3. HALL FORMATION SEDIMENTS
 - 3a SLISTONE
 - 3b CONGLOMERATE
 - 3c GREYWACKE

- GEOLOGICAL CONTACT
- - - GEOLOGICAL CONTACT (ASSUMED)
- ~ ~ ~ FAULT OR SHEAR ZONE
- o SHAFT
- 7 NO. 7 TRENCH
- o OUTCROP
- ACCESS ROAD
- CREEK
- REVERTED CROWN-GRANT BOUNDARY LINE
- MARIPOSITE BOUNDARY LINES
- LCP MARIPOSITE NO. 1
- LEGAL CORNER POST

GOLD IN SOILS
 x Sample Site
 All Gold Values in PPB

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,515

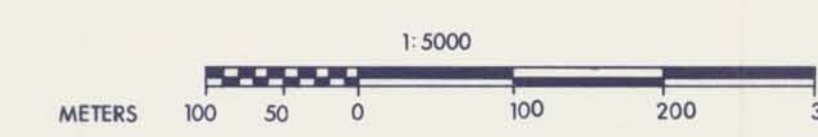


GREENWICH RESOURCES, INC.

MAMMOTH PROPERTY

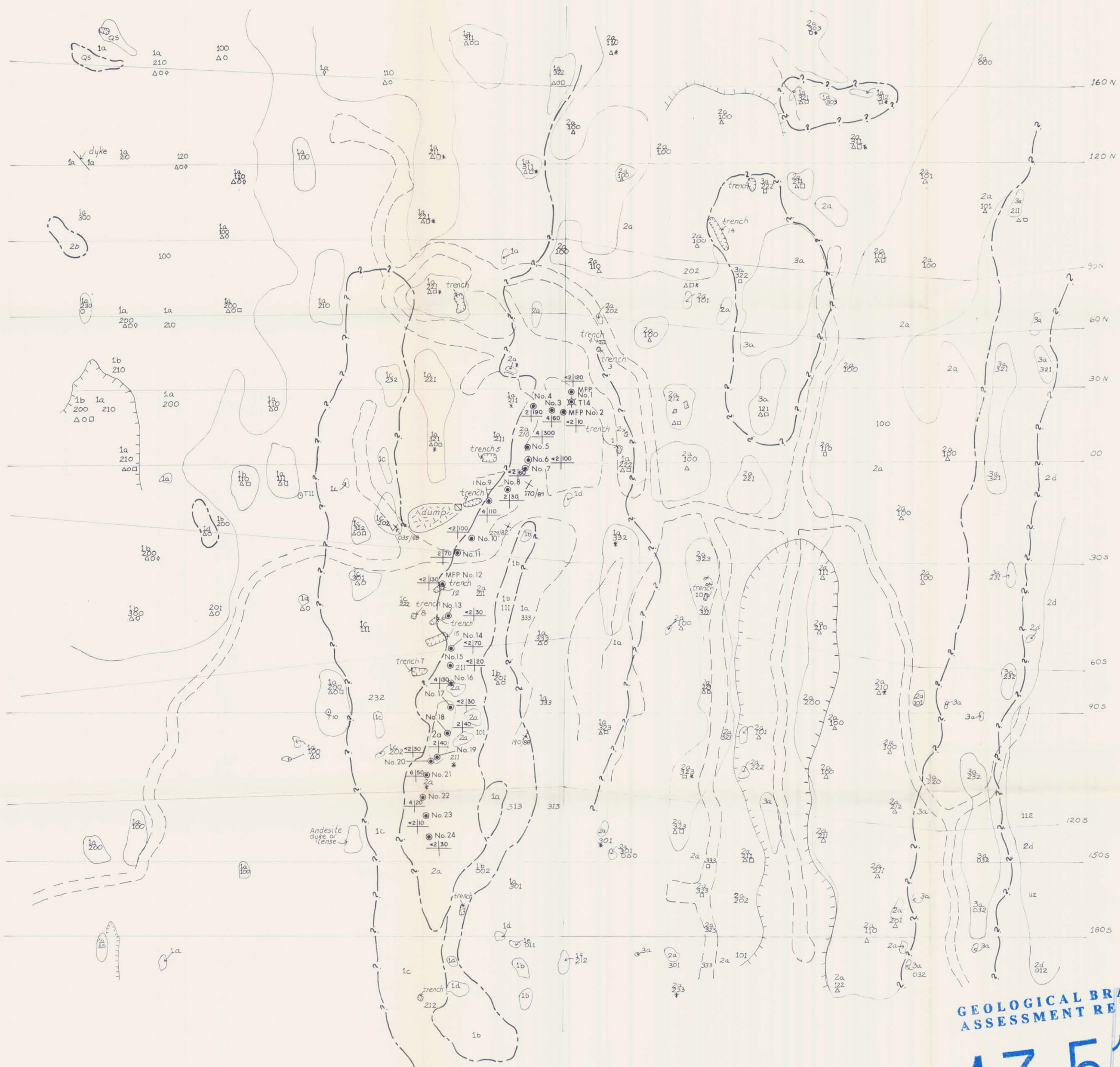
Fig. 5

GOLD IN SOILS



Revised-Dec. 1984

COMPILED BY: J. S. HAND DATE: NOV. 1981
 DRAWN BY: S. ZANDER PROJ. No. 5013



- LEGEND**
- 1 Elise Formation
 - 1a Augite Porphyry
 - 1b Augite Porphyry Agglomerate
 - 1c Porphyry flow
 - 1d Agglomerate
 - 2 Nelson Intrusives
 - 2a Feldspar Porphyry Intrusion
 - 2b Western Granites
 - 2c Eastern Granites
 - 2d Potassium Feldspar and Hornblende Intrusion
 - 3 Hall Formation Sediments
 - 3a Siltstone
- Δ Potassium Feldspar
 □ Pyrite
 ○ Epidote
 ◇ Bleached
 * Aplite Stringers
- 212
 --- geological contact
 -? geological contact (assumed)
- shaft
 ● Rock Geochemical Samples Au (ppb) Ag (ppb)
- X 170/88 drill hole (shows bearing and dip)
 U gully or depression
 ○ rock outcrop
 --- road, clearing
 - - - footpath
- 213 Alteration, Fracturing, Oxidation
 0 - none
 1 - Slight
 2 - moderate
 3 - Intense



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,515



GREENWICH RESOURCES, INC.

MAMMOTH PROPERTY
FIGURE 6
 FELDSPAR PORPHYRY
 GOLD GEOCHEMISTRY

COMPILED BY: T. JOVESKI DATE: Revised - Nov. 1984 - S.E.
 DRAWN BY: S. ZANDER PROJ. No: