

SOIL AND ROCK GEOCHEMICAL INVESTIGATION AND TRENCHING
LYNN, ALAMO, CREEK SIDE, OURAY, SMOKE ET AL RD.
MINERAL CLAIM GROUP
SLOCAN MINING DIVISION
THREE FORKS, B.C.
NTS 82 K/3 W
LATITUDE 50°01'30"N, LONGITUDE 117°15'W

LOG NO: 0331	ACTING	FILE NO
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Prepared for
MINOTAUR EXPLORATIONS LTD.

INT BRANCH
INT REPORT

17,225

ARCTEX ENGINEERING SERVICES

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Paul Kallock, F.G.A.C.
Consulting Geologist

FILMED

February 25, 1988

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.01.12

ASSESSMENT REPORT 17225

MINING DIVISION: Slocan

PROPERTY: Alamo (Creek Side)
 LOCATION: LAT 50 01 30 LONG 117 16 24
 UTM 11 5541227 480420
 NTS 082K03W 082K03E

CLAIM(S): Alamo, Alamo 2, Creek Side
 OPERATOR(S): Goldsmith, L.B.
 AUTHOR(S): Kallock, P.; Goldsmith, L.B.
 REPORT YEAR: 1988, 31 Pages

GEOLOGICAL

SUMMARY: Jurassic-Triassic Slocan Group clastic sediments are intruded by silicic to intermediate dykes. Productive fissure-lode systems trend northeasterly and host silver-lead-zinc mineralization. Soil geochemical anomalies on the Creek Side and Alamo claims require detailed exploration.

WORK

DONE: Geological, Geochemical, Physical
 GEOL 225.0 ha
 Map(s) - 2; Scale(s) - 1:5000, 1:1250
 ROAD 1.5 km
 ROCK 18 sample(s) ;AG, PB, ZN
 SOIL 96 sample(s) ;AG, PB, ZN
 Map(s) - 6; Scale(s) - 1:5000, 1:1250
 TREN 30.0 m 3 trench(es)

RELATED

REPORTS: 15525
 MINFILE: 082KSW

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MAPS:	(Pocket inside back cover)
1:500 Provisional Geology	
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Ag	
Pb	
Zn	
1:1250 Creek Side Detail, Geology	
1:1250 Creek Side Detail, Soil and Rock Geochemistry:	
Ag	
Pb	
Zn	

**SOIL AND ROCK GEOCHEMICAL INVESTIGATION AND TRENCHING
LYNN, ALAMO, CREEK SIDE, OURAY, SMOKE ET AL.
MINERAL CLAIM GROUP
SLOCAN MINING DIVISION
THREE FORKS, B.C.**

SUMMARY

Dozer and backhoe trenching at three areas within the Alamo claim have been undertaken during 1987. Significant zinc values (10,550 ppm Zn) have been obtained from rock at one of the trench areas. Silver values in soils of up to 6.0 ppm are also present in this general area. Geologic mapping, combined with 93 soil geochemical samples, has partially delineated a strong zone of zinc enrichment on the Creek Side claim. Six soil samples from a grid spaced at 25 m centres contain more than 10,000 ppm (1%) zinc. Several adjacent soil samples contain more than 4.9 ppm Ag. This area is thought to be underlain by Slocan Group schist and argillite. There is also evidence of a northeast-trending fault zone which may pass through the anomalous area. A projection from the Victor vein structure at the Violamac Mine, 1.2 km to the southwest, can also be made.

The Santos claim consisting of 12 units was staked and added to the property during 1987. This claim adjoins the Alamo Group on the west.

Continued geologic mapping, soil geochemical sampling, and dozer and backhoe trenching are recommended. Diamond drilling may be warranted in a subsequent phase.

Approximately \$39,600 will be required to complete Phase 2(b), and an additional \$57,200 will be required for Phase 2(c). If diamond drill targets are developed, a budget of \$180,000 in Phase 3 is estimated.

INTRODUCTION

The claim group covers the western ends of London Ridge, Seaton Creek and Kane Creek valleys, the northern tip of Payne Ridge, and extends across Carpenter Creek in the southwest corner of the Creek Side claim. Highway 31A, which joins New Denver and Kaslo, crosses the Alamo and Lynn claims in Seaton Creek valley. The gravel road which trends southeasterly from Highway 31A at Three Forks to Sandon provides access through the southern portion of the property. A logging road extends from Highway 31A into the northern part of the Alamo claims. Dirt roads in the Smoke claims lead to the Payne Mine and thence to Sandon. Elevations range from 760 m (2500') near Three Forks to 1940 m (6350') on Payne Ridge in the southeast corner of the Smoke 1 claim.

The group consists of 13 claims and fractions totalling 45 units, less indentations around the outer boundary for a net of approximately 42 units (1050 hectares). Recording data are as follows:

<i>Claim Name</i>	<i>Size in Units</i>	<i>Lot Number</i>	<i>Record Number</i>	<i>Record Date</i>
Lynn	6		4257(3)	Mar. 21, 1984
Alamo	9		4746(7)	Jul. 9, 1985
Alamo 2	2		4759(7)	Jul. 30, 1985
Alamo 3	2		4786(9)	Sep. 3, 1985
Creek Side	9		1748(2)	Feb. 18, 1981
Ouray	1	3109	1676(1)	Jan. 17, 1981
Ouray Fr.	1	1017	1676(1)	"
Nellie Fr.	1	3108	1677(1)	"
Smoke 1	1		4763(8)	Aug. 2, 1985
Smoke 2	1		4764(8)	"
Smoke 3	1		4765(8)	"
Smoke 4	1		4780(8)	Aug. 30, 1985
Santos	12		5431(3)	Aug. 21, 1987

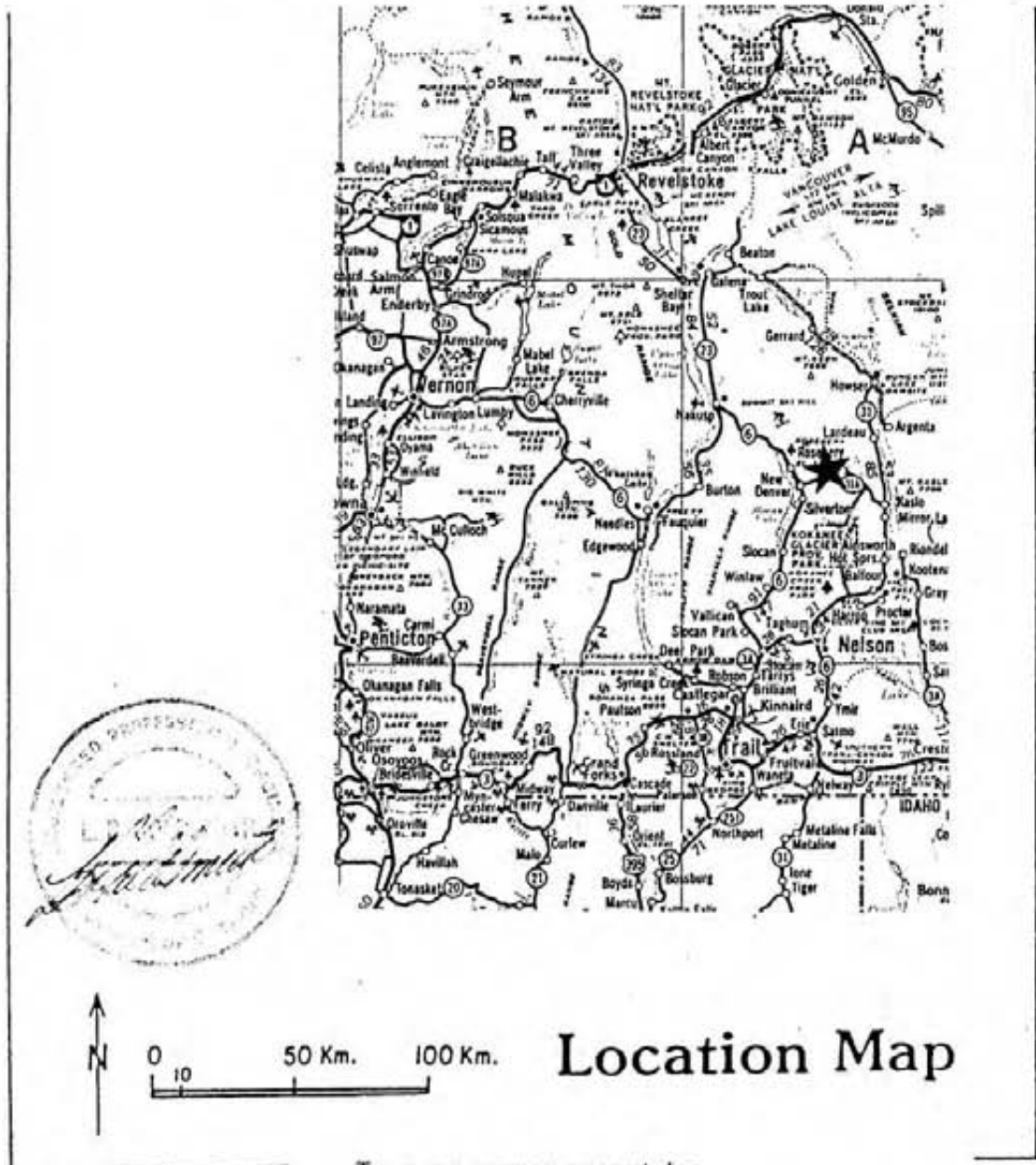
No history of production is known. Only short adits and small trenches have been observed. Recent work (see References) has been mainly soil geochemistry and geological mapping; VLF-EM was conducted on a portion of the Ouray and Creek Side claims. Goldsmith (1987) has compiled pertinent data concerning the claim group. Maps have been amended with additional exploration information acquired in 1987, and are included in the pocket at the back of this report. In particular, dozer and backhoe trenching at the Alamo claim and detailed soil geochemical sampling at the Creek Side claim are presented.

During 1987 the Santos claim was staked. It consists of 12 units and adjoins the Alamo, Alamo 2 and Alamo 3 on the west.

MINOTAUR EXPLORATIONS LTD.

ALAMO CLAIM GROUP

THREE FORKS B.C. SLOCAN MINING DIVISION NTS 82 K/3



To accompany report by

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Paul Kallock, F.G.A.C.
Consulting Geologist

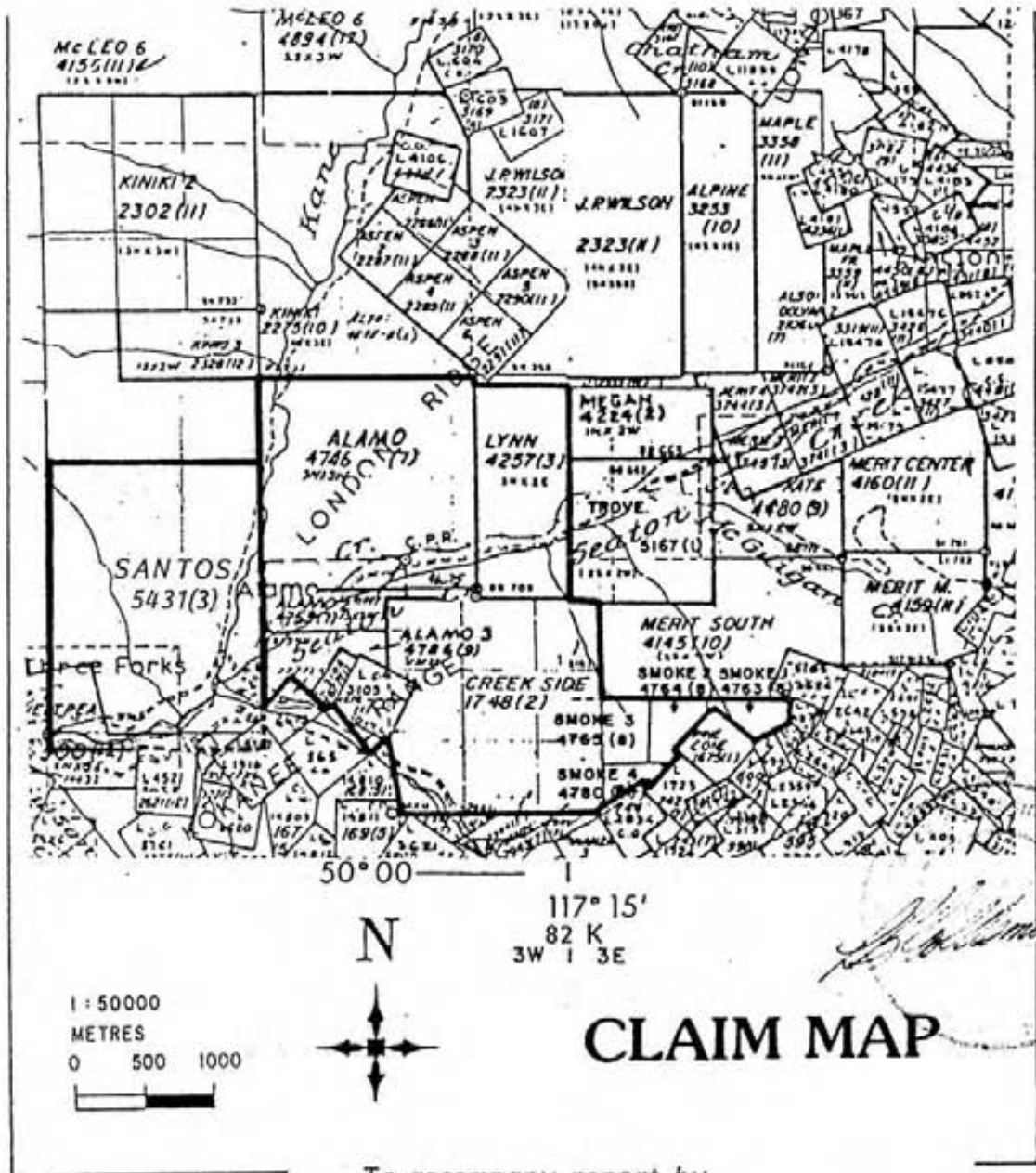
ARCTEX ENGINEERING SERVICES

February 1988

MINOTAUR EXPLORATIONS LTD.

ALAMO CLAIM GROUP

THREE FORKS B.C. SLOCAN MINING DIVISION NTS 82 K/3



To accompany report by

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Paul Kallock, F.G.A.C.
Consulting Geologist

ARCTEX ENGINEERING SERVICES

February 1988

GEOLOGY AND MINERALIZATION

The claims are underlain by clastic sediments of the Triassic-Jurassic Slocan Group. Bedding and foliation strike northwesterly with variable dips which are predominantly southwesterly. Granitic dykes and small stocks intrude the sediments. Fracture directions trend northeasterly and northwesterly. Formerly productive northeast-trending fissure-filling veins, which include the Monitor, Cork, and Victor (Violamac) deposits, occur to the southwest of the claims. Projections of these systems to the northeast would extend across the Minotaur claims.

SOIL AND ROCK GEOCHEMICAL SURVEYS AND TRENCHING

The following table displays statistical data concerning metal abundance derived from lognormal probability plots. Years of soil sampling results over Slocan Group rocks have been compiled into this information.

	Ag ppm	Pb ppm	Zn ppm
Background	<2.3	<38	Possibly two populations
Threshold	2.3 to 4.9	38 to 150	
Anomalous	>4.9	>150	>980

Alamo Claim

During the 1987 exploration programme access was gained and trenching with backhoe and dozer was carried out at several areas on the Alamo claim which exhibit anomalous metal values in soils. A total of 1.53 kilometres of road and trenches were constructed during August and September 1987. Three trench areas were mapped and 18 rock geochemical samples were gathered and analysed for Pb, Zn and Ag. The three areas are discussed as follows.

0+20N 11+50E

Trenching along the northern margin of the claim group exposed northwest-trending black phyllitic schist and argillite which dips moderately to the north. These Slocan Group sedimentary rocks are commonly cut by orange, porous (oxidized) intermediate dykes. Quartz veinlets are quartz pods or lenses with or without limonite are also common.

Near station 0+00S 11+00E trenching has exposed a narrow alteration zone (<0.05 m) containing quartz, mariposite, malachite, and tetrahedrite adjacent to an intermediate dyke.

Sample 0+20N 11+51E was collected from this discontinuous (probably less than 2.0 m long) zone. It contained 10.0 ppm Ag. East-west shearing adjacent to the dyke may have localized this mineralization.

Several samples were collected from the road which leads to 2+50S 11+00E (samples Mino #01-#06). Numerous quartz and limonite veins, zones of fragmental sedimentary rock and oxidized dykes were sampled but no anomalous values were detected. Overburden near the southern end of the trench is more than 3.0 m deep.

10+00S 10+00E

In the area near 10+00S 10+00E, 450 m of road and trenching were excavated where up to 6.0 ppm Ag had previously been detected in soils. Argillite and dark phyllitic schist which trend northwesterly are most common. Near the upper limit of trenching a large barren granodiorite dyke was exposed. At the central part of the trench area black carbonaceous limestone was found.

Four rock samples were collected from various parts of the trench area. They are described in the appendix and shown on the geochemistry maps in the pocket of this report. One of the samples, Mino #08, contained significant amounts of zinc (10,550 ppm), but no samples contained appreciable silver.

5+00S 8+50E

Three soil samples and one rock sample were collected from trenches in the 5+00S 8+50E area where previous soil sampling had detected up to 5.2 ppm Ag. No significant mineralization was seen in float or bedrock, nor were anomalous soil or rock values obtained from subsurface material collected from the trenches.

Creek Side Claim

A single point soil anomaly of 9.5 ppm Ag as documented by Sookochoff (1980, 1981) was investigated during 1987. Detailed soil sampling and geological mapping revealed a strong zinc enriched soil anomaly with adjacent silver enrichment. Maps showing Pb, Zn, and Ag soil geochemistry and geology at a scale of 1:1250 are included in the pocket of this report. These maps are indexed on the larger 1:5000 scale maps.

A total of 93 soil samples were collected from a survey grid established with 25 m stations on 25 m line spreads. A long, narrow spade was used to collect samples from a depth of 0.15 to 0.35 m below surface. This depth generally corresponds with the "C" soil horizon. Samples were packaged in wet-strength manila envelopes. Geochemical analyses were carried

out by Chemex Labs of Vancouver, B.C. Analytical procedures and results are included in the Appendix.

Nineteen soil samples clustered in the southwest quarter of the grid contain greater than 980 ppm zinc. Six of these samples contain greater than 10,000 ppm (1%) Zn. The highest values are derived from a distinctive reddish-brown soil. Adjacent to the zinc anomaly, five soil samples contain greater than 4.9 ppm Ag. Two other samples at the eastern corners of the grid also contain anomalous silver.

Dark grey phyllite and slaty argillite of the Slocan Group are exposed at a few locations on the grid. Variable strike and dip of foliation was recorded. A felsic dyke with associated quartz and limonite was seen at 1+95N 10+55E.

Approximately 100 m east of the grid a large elongate pit was noted. Additional investigation is required to determine if this is a natural feature such as a karst or caved stope from old mine workings. An old exploration adit is known to exist on the Smoke 3 claim, 400 m east of the present grid.

Three rock samples were collected from the grid area. Each contained significant zinc but not anomalous silver. Descriptions of the samples are included in the Appendix.

The reddish-brown soil which is coincident with the zinc soil anomaly occupies a southwest-trending depression in a southwest-facing slope. This trend appears to coincide with steep faults previously mapped by Sookochoff (1980, 1981). If this trend is projected southwest across Carpenter Creek, it would coincide with the Victor vein of the Violamac Mine.

CONCLUSIONS

Three areas at the Alamo claim were investigated. Near the north boundary minor quartz, limonite, malachite, and tetrahedrite were found which occur in a discontinuous zone adjacent to an intermediate dyke. Significant volumes of greater metal concentrations appear unlikely. Trenching to the south revealed numerous quartz veinlets. Many of these were sampled but no significant silver values were found.

Trenching near the road at 10+00S 10+00E exposed Slocan Group sedimentary rock including argillite, phyllite and limestone which have been intruded by large granodiorite dykes. One of the rock samples collected from this area contained high zinc (10,550 ppm). Thorough trenching of the area upslope from the original soil anomaly (6.0 ppm Ag) has not been completed.

Soil and rock samples gathered at depth from the area near 5+00S 8+50E did not contain anomalous metal values, suggesting that near-surface anomalies are transported.

A detailed soil investigation of a small part of the Creek Side claim has partially delineated a very high zinc anomaly (six samples contained more than 1% zinc) with several adjacent samples which contained anomalous (≥ 4.9 ppm) silver. The trend of the anomalous zone may coincide with steep northeast/southwest faults previously mapped. Also of interest is the similar trend of the Victor vein which occurs south of Carpenter Creek.

RECOMMENDATIONS

On the Alamo claim, additional exploration is required at the 10+00S 10+00E anomaly where 6.0 ppm Ag in soils remains to be fully explained. In addition, rock sample Mino #08 contained 10,550 ppm Zn. Both localities require dozer or backhoe trenching, with possible subsequent diamond drilling.

The area bounded by 10+00S to 12+00S and 1+00E to 2+00E contains a low but broad pattern of silver soil enrichment. This area should be re-prospected. Additional soil and rock samples should be collected. Dozer trenching may also be required.

No further work is recommended for the areas of trenching at 0+20N 11+50E and 5+00S 8+50E.

On the Creek Side claim additional geologic mapping and soil geochemical sampling is recommended. The existing grid should be expanded to the east, possibly as far as the Smoke 3 grid area. Two hundred metres southwest of the grid, northeast- to southwest-trending faults as mapped by Sookochoff (1980, 1981) should be re-examined. The soil geochemical survey should also be extended to include this area. Dozer and/or backhoe trenching of the silver and zinc anomalies should be anticipated. Access from the Payne Mine road will need to be constructed. Less than 1.0 km of road including one or two switchbacks should be adequate for access.

Geological mapping and soil geochemical sampling should be undertaken on the newly acquired Santos claim.

COST ESTIMATE

Phase 2 is partially completed and documented by this report; the remainder of Phase 2 is 2(b), and 2(c) is as follows.

Phase 2(b)

Phase 2(b) will consist of soil geochemical sampling and backhoe and dozer trenching of anomalies near 10+00S 10+00E and 11+00S 1+50E on Alamo claim; grid layout, geochemical sampling and preliminary geological mapping at Creek Side and adjacent claims as warranted:

Geological mapping	\$ 3,000	
Soil geochemical sampling	5,000	
Dozer and/or backhoe road and trench construction	10,000	
Analyses	8,000	
Room, board	2,000	
Transportation	2,000	
Engineering, supervision	3,000	
Reporting	<u>3,000</u>	
	36,000	
Contingencies at 10%	<u>3,600</u>	
Total Phase 2(b)	39,600	\$ 39,600

Phase 2(c)

Phase 2(c) is included as preliminary geological mapping and soil geochemical sampling of the newly acquired Santos claim, and detailed geochemical sampling as required.

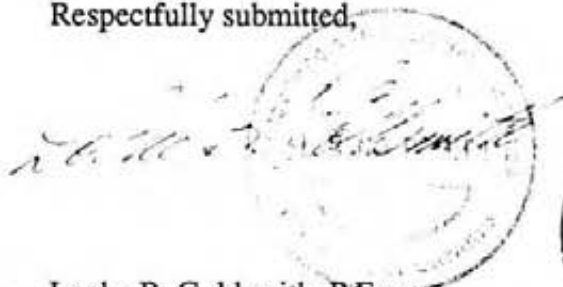
Geological mapping	\$ 5,000	
Soil geochemical sampling	10,000	
Dozer/backhoe, allow	10,000	
Analyses	15,000	
Room, board	3,000	
Transportation	3,000	
Engineering, supervision	3,000	
Reporting	<u>3,000</u>	
	52,000	
Contingencies at 10%	<u>5,200</u>	
Total Phase 2(c)	57,200	<u>57,200</u>
Total, Phases 2(b) and 2(c)		\$96,800

Phase 3

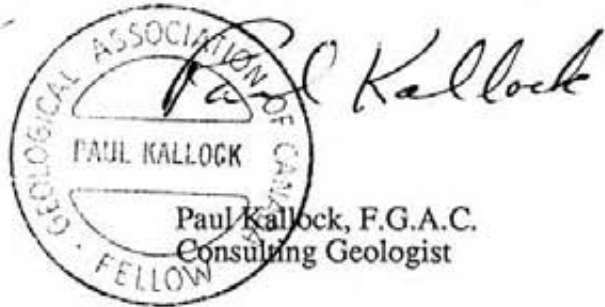
Diamond drilling, allow	<u>180,000</u>
Total, Phases 2(b), 2(c), 3	\$276,800

Phases 2(b) and 2(c) should be completed concurrently, and results compiled into an engineering report; continuance to Phase 3 should be contingent upon favourable conclusions and recommendations by an Engineer.

Respectfully submitted,



Locke B. Goldsmith, P.Eng.
Consulting Geologist



Paul Kallock, F.G.A.C.
Consulting Geologist

Vancouver, B.C.
February 25, 1988

**ENGINEER'S CERTIFICATE
LOCKE B. GOLDSMITH**

1. I, Locke B. Goldsmith, am a registered Professional Engineer in the Province of Ontario and the Northwest Territories, and a Registered Professional Geologist in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree in Geology from Michigan Technological University, a M.Sc. degree in Geology from the University of British Columbia, and have done postgraduate study in Geology at Michigan Tech and the University of Nevada. I am a graduate of the Haileybury School of Mines, and am a Certified Mining Technician. I am a Member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy, and a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 29 years.
4. I have co-authored the report entitled, "Soil and Rock Geochemical Investigation and Trenching, Lynn, Alamo, Creek Side, Ouray, Smoke et al. Mineral Claim Group, Slocan Mining Division, Three Forks, B.C.", dated February 25, 1988. The report is based upon fieldwork and research supervised by the author.
5. I have no ownership in the property, nor in the stocks of Minotaur Explorations Ltd.
6. I consent to the use of this report in a prospectus, or in a statement of material facts related to the raising of funds.

Respectfully submitted,



Locke B. Goldsmith

Locke B. Goldsmith, P.Eng.
Consulting Geologist

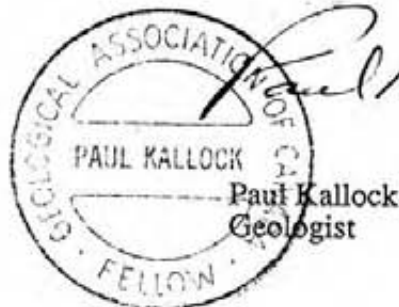
Vancouver, B.C.
February 25, 1988

**GEOLOGIST'S CERTIFICATE
PAUL KALLOCK**

I, Paul Kallock, do state: that I am a Geologist with Arctex Engineering Services, 301 - 1855 Balsam Street, Vancouver, B.C.

I Further State That:

1. I have a B.Sc. degree in Geology from Washington State University, 1970. I am a Fellow of the Geological Association of Canada.
2. I have engaged in mineral exploration since 1970, both for major mining and exploration companies and as an independent geologist.
3. I have co-authored the report entitled, "Soil and Rock Geochemical Investigation and Trenching, Lynn, Alamo, Creek Side, Ouray, Smoke et al. Mineral Claim Group, Slocan Mining Division, Three Forks, B.C.", dated February 25, 1988. The report is based on my fieldwork carried out on the property and on previously accumulated geologic data.
4. I have no direct or indirect interest in any manner in either the property or securities of Minotaur Explorations Ltd., or its affiliates, nor do I anticipate to receive any such interest.
5. I consent to the use of this report in a prospectus, or in a statement of material facts related to the raising of funds.



Vancouver, B.C.
February 25, 1988

REFERENCES

- Goldsmith, L.B. 1986. Soil geochemistry and preliminary geological mapping, Lynn and Alamo mineral claim group, Slocan Mining Division, Three Forks, B.C. Private report for Minotaur Explorations Ltd.
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- Tully, D.W. November 1985. Report on the Smoke #1-#4, Silver, Merit M mineral claims, Seaton Creek-McGuigan Creek-Zincton area, Slocan Mining Division, Sandon, B.C. Private report for West Columbia Energies Inc.
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ITEMIZED COST STATEMENT, 1987 PROGRAMME

Personnel

L.B. Goldsmith, 1/2 Aug. 3, 1/2 4,
1/2 Sept. 3, 1/2 Nov. 22, Dec. 9, 10,
total 4 days at \$400/day

\$1,600.00

P. Kallok, Aug. 6-8, Oct. 11,
Dec. 9, 10, 1/2 11, total 6 1/2 days
at \$330/day

2,145.00

G. Bennett, 1/2 July 31, Aug. 1-4,
7-9, Sept. 4, 1/2 21, 1/2 22, 24-28,
30, Oct. 1, 1/2 7, 1/2 11, total
17 1/2 days at \$230/day

4,025.00

I. Francis, Aug. 4-11, total 8 days
at \$230/day

1,840.00

P. Malkin, Aug. 6, 1 day at
\$230/day

230.00
9,840.00

\$ 9,840.00

Accommodation, Meals

329.67

Divided by 36 man days = \$9.16/man/day

Transportation

4x4 vehicles: 22 vehicle days
at \$45/day
1327 km at \$0.30/km
Gas

990.00
398.10
139.94
1,528.04

1,528.04

= \$69.46/vehicle/day

Analyses

106 soil and 18 rock samples cost
= \$5.92/sample

734.55

734.55

Physical

D6D dozer
JD 450 dozer-backhoe
Lowbedding

5,610.00
1,280.00
110.00
7,000.00

7,000.00

Report

Typing, drafting, prints, photocopies

1,418.60\$20,850.86

APPENDIX

ROCK SAMPLE DESCRIPTIONS

ALAMO CLAIM GROUP

		<i>Pb</i> ppm	<i>Zn</i> ppm	<i>Ag</i> ppm
0+20N 11+50E	0.75 m chip sample of black schist with 2 narrow porous granitic (?) dykes, on hangingwall side of next sample.	10	450	2.8
0+20N 11+51E	1.0 m chip sample of green mariposite with quartz, malachite and trace tetrahedrite hosted in schist, also orange porous granitic (?) dyke. Green vein trends N78°E 60°N, schist trends N28°W 70°N.	8	300	10.0
0+20N 11+60E	1.0 m vertical chip in road bank, numerous quartz veinlets in black schist, minor limonite.	10	475	1.4
0+20N 13+00E	Grab sample from argillite and interbedded limestone with minor quartz veinlets.	7	56	0.1
#01	Chips of 4 quartz float cobbles with iron stain but no sulphides.	2	100	0.3
#02	2.0 m vertical chip sample in dozer cut, of rubble (almost bedrock) of black shale and felsite dyke material.	12	630	0.2
#03	Chips from 1 m ² area of outcrop in road cut black schist and quartz breccia.	7	108	0.2
#04	1.0 m vertical chip sample in road cut of black schist conglomerate or breccia with siliceous fragments and limonite including one 0.02 m quartz vein.	3	231	0.1
#05	0.75 m vertical chip in road cut of black schist with 0.05 m quartz vein and siliceous breccia (?).	10	550	2.5

Rock Sample Descriptions (continued)

		Pb ppm	Zn ppm	Ag ppm
#06	Grab sample of 2 m ² area of quartz to 0.1 m in black conglomerate / breccia and black schist.	5	200	1.0
#07	0.75 m vertical chip in dozer cut, 0.15 m of quartz with limonite, hosted in black phyllite below granodiorite contact.	5	430	0.3
#08	1.0 m vertical chip in road cut of black phyllitic argillite with limonite jarosite and several quartz veinlets.	4	10550	0.6
#09	1.0 m vertical chip of black limestone and black phyllite, strong limonite and sooty material at contact.	18	375	0.1
#10	1.0 m vertical chip, black sooty schist with quartz stringers up to 0.03 m.	6	630	0.3

ROCK SAMPLE DESCRIPTIONS

		<i>Pb</i> <i>ppm</i>	<i>Zn</i> <i>ppm</i>	<i>Ag</i> <i>ppm</i>
1+85N 10+50E	Grab sample slaty argillite with strong quartz and limonite.	15	1250	0.7
1+95N 10+55E	0.2 m chip of aplite dyke with quartz and limonite at contact with argillite.	63	1700	1.4
1+70N 11+70E	Grab of float of hematitic phyllite breccia in soft iron-rich reddish soil, plus strong manganese (?).	36	3100	0.2



Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

A8722178

Comments: CC: ARCTEX - SILVERTON CC: PAUL KALLOCK

CERTIFICATE A8722178

ARCTEX ENGINEERING
PROJECT : CREEK SIDE
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-SEP-87.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	51	Dry, sieve -80 mesh; soil, sed.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
4	51	Pb ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
5	51	Zn ppm: HNO ₃ -aqua regia digest	AAS	1	10000
6	51	Ag ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	0.1	200

COPY



Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 WEST GLENDALE AVE., SUITE 7, SPARKS,
NEVADA, U.S.A. 89431
PHONE (702) 356-5395

To : ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project : MINOTAUAR

Comments: CC: ARCTEX - SILVERTON CC: PAUL KALLOCK

Page No. : 1
Tot. Pages: 1
Date : 24-AUG-87
Invoice # : I-8719950
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719950

SAMPLE DESCRIPTION	PREP CODE		Pb	Zn	Ag ppm							
			ppm	ppm	Aqua R							
5+29S 8+50E	205	--	6	78	0.4							

COPY

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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: MINOTAUR

Comments: C.C.: ARCTEX ENG. C.C.: PAUL KALLOCK

Page No. :1
Tot. Pages:1
Date :01-NOV-87
Invoice #: I-8724648
P.O. # :

CERTIFICATE OF ANALYSIS A8724648

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R							
0+20N 11+50E	205 ---	10	450	2.8							
0+20N 11+51E	205 ---	8	300	10.0							
0+20N 11+60E	205 ---	10	475	1.4							
0+20N 13+00E	205 ---	7	56	0.1							
#01	205 ---	2	100	0.3							
#02	205 ---	12	630	0.2							
#03	205 ---	7	108	0.2							
#04	205 ---	3	231	0.1							
#05	205 ---	10	550	2.5							
#06	205 ---	5	200	1.0							
#07	205 ---	5	430	0.3							
#08	205 ---	4	10550	0.6							
#09	205 ---	18	375	0.1							
#10	205 ---	6	630	0.3							

COPY

CERTIFICATION :

Hart Bichler



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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: CREEK SIDE/MINOTAUR

Comments: CC: GOLDSMITH CC: PAUL KALLOCK

Page No. : 1
Tot. Pages : 1
Date : 20-AUG-87
Invoice # : I-8719744
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719744

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R							
1+70N 11+70E	205 ---	36	3100	0.2							
1+85N 10+50E	205 ---	15	1250	0.7							
1+95N 10+55E	205 ---	63	1700	1.4							

COPY

CERTIFICATION : Paul Buchler



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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: CREEK SIDE/MINOTAUR

Comments: CC: GOLDSMITH CC: PAUL KALLOCK

Page No. : 1
Tot. Pages: 2
Date : 20-AUG-87
Invoice #: I-8719745
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719745

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R										
1+75N 11+00E	201 ---	63	750	9.0										
1+75N 11+25E	201 ---	1	>10000	1.6										
1+75N 11+50E	201 ---	1	9600	0.4										
1+75N 11+75E	201 ---	1	>10000	0.4										
1+75N 12+00E	201 ---	60	475	1.3										
1+75N 12+25E	201 ---	32	500	7.5										
2+00N 10+50E	201 ---	18	690	0.7										
2+00N 10+75E	201 ---	44	1200	4.4										
2+00N 11+00E	201 ---	17	550	0.9										
2+00N 11+25E	201 ---	20	260	0.9										
2+00N 11+50E	201 ---	12	230	0.3										
2+00N 11+75E	201 ---	18	390	0.6										
2+00N 12+00E	201 ---	1	6700	0.5										
2+00N 12+25E	201 ---	28	450	1.7										
2+25N 10+50E	201 ---	25	424	1.1										
2+25N 10+75E	201 ---	19	460	0.6										
2+25N 11+00E	201 ---	28	580	0.9										
2+25N 11+25E	201 ---	18	420	0.8										
2+25N 11+50E	201 ---	17	255	0.4										
2+25N 11+75E	201 ---	14	380	1.9										
2+25N 12+00E	201 ---	26	620	8.8										
2+25N 12+25E	201 ---	44	340	1.8										
2+50N 10+50E	201 ---	23	665	0.9										
2+50N 10+75E	201 ---	16	395	0.8										
2+50N 11+00E	201 ---	19	282	0.5										
2+50N 11+25E	201 ---	13	488	0.5										
2+50N 11+50E	201 ---	14	510	2.3										
2+50N 11+75E	201 ---	17	400	4.4										
2+50N 12+00E	201 ---	17	340	1.5										
2+50N 12+25E	201 ---	19	226	0.9										
2+75N 11+00E	201 ---	17	580	1.1										
2+75N 11+25E	201 ---	20	520	3.0										
2+75N 11+50E	201 ---	16	520	1.9										
2+75N 11+75E	201 ---	13	445	1.4										
2+75N 12+00E	201 ---	15	395	1.5										
2+75N 12+25E	201 ---	14	290	0.7										
3+00N 11+00E	201 ---	14	475	2.4										
3+00N 11+25E	201 ---	16	380	2.3										
3+00N 11+50E	201 ---	12	385	2.6										
3+00N 11+75E	201 ---	15	340	1.1										

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CERTIFICATION : Hart Buchler



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PHONE (702) 356-5395

To : ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project : CREEK SIDE/MINOTAUR

Comments: CC: GOLDSMITH CC: PAUL KALLOCK

Page No. : 2
Tot. Pages: 2
Date : 20-AUG-87
Invoice # : I-8719745
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719745

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R							
3+00N 12+00E	201 --	16	295	1.7							
3+00N 12+25E	201 --	20	310	0.7							

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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: MINOTAUR

Comments: CC: ARCTEX - SILVERTON. CC: PAUL KALLOCK

Page No. : 1
Tot. Pages: 1
Date : 23-AUG-87
Invoice # : I-8719949
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719949

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R						
5+00S 8+50E	201 ---	32	480	1.2						
5+00S 9+00E	201 ---	12	210	0.5						
5+30S 8+50E	201 ---	14	248	0.9						

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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
 VANCOUVER, B.C.
 V6K 3M3

Project: CREEK SIDE

Comments: CC: ARCTEX - SILVERTON CC: PAUL KALLOCK

Page No. : 1
 Tot. Pages: 2
 Date : 22-SEP-87
 Invoice # : I-8722178
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8722178

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R									
LN 1+25N 10+25E	201 ---		32	990	0.4								
LN 1+25N 10+50E	201 ---		1	>10000	0.1								
LN 1+25N 10+50EB	201 ---		40	1000	1.6								
LN 1+25N 10+75E	201 ---		17	10000	0.1								
LN 1+25N 11+00E	201 ---		97	1550	1.2								
LN 1+25N 11+25E	201 ---		31	1200	0.6								
LN 1+25N 11+50E	201 ---		45	1000	0.4								
LN 1+25N 11+75E	201 ---		28	565	1.7								
LN 1+25N 12+00E	201 ---		44	530	2.4								
LN 1+25N 12+25E	201 ---		17	470	1.6								
LN 1+25N 12+50E	201 ---		29	500	1.8								
LN 1+25N 12+75E	201 ---		20	450	1.2								
LN 1+25N 12+75EB	201 ---		23	235	1.4								
LN 1+25N 13+00E	201 ---		21	475	1.4								
LN 1+25N 13+25E	201 ---		20	370	4.6								
LN 1+25N 13+50E	201 ---		19	550	5.2								
LN 1+50N 10+25E	201 ---		35	880	0.5								
LN 1+50N 10+50E	201 ---		33	1300	0.1								
LN 1+50N 10+75E	201 ---		50	1300	3.4								
LN 1+50N 11+00E	201 ---		1	>10000	0.1								
LN 1+50N 11+25E	201 ---		1	>10000	0.6								
LN 1+50N 11+50E	201 ---		17	1280	0.4								
LN 1+50N 11+75E	201 ---		72	520	1.4								
LN 1+50N 12+00E	201 ---		38	470	6.7								
LN 1+50N 12+25E	201 ---		52	395	1.6								
LN 1+50N 12+50E	201 ---		25	720	3.3								
LN 1+50N 12+75E	201 ---		22	560	2.2								
LN 1+50N 13+00E	201 ---		22	570	2.4								
LN 1+50N 13+25E	201 ---		23	435	2.3								
LN 1+50N 13+50E	201 ---		24	550	3.5								
LN 1+50N 14+50E	201 ---		20	430	0.9								
LN 1+75N 10+25E	201 ---		23	1060	0.1								
LN 1+75N 10+50E	201 ---		20	1200	0.1								
LN 1+75N 10+75E	201 ---		40	1360	1.5								
LN 1+75N 12+50E	201 ---		5	440	3.2								
LN 1+75N 12+75E	201 ---		19	475	1.7								
LN 1+75N 13+00E	201 ---		32	370	1.7								
LN 1+75N 13+25E	201 ---		23	430	4.2								
LN 1+75N 13+50E	201 ---		17	340	3.0								
LN 2+00N 12+50E	201 ---		22	360	1.1								

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NEVADA, U.S.A. 89431
PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

Project: CREEK SIDE

Comments: CC: ARCTEX - SILVERTON CC: PAUL KALLOCK

Page No. : 2
Tot. Pages: 2
Date : 22-SEP-87
Invoice # : I-8722178
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8722178

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R								
LN 2+00N 12+75E	201 ---	15	265	2.6								
LN 2+00N 13+00E	201 ---	76	365	1.7								
LN 2+00N 13+25E	201 ---	22	230	0.6								
LN 2+00N 13+50E	201 ---	19	230	0.8								
LN 2+25N 12+00E	201 ---	16	360	0.2								
LN 2+25N 12+50E	201 ---	16	200	2.1								
LN 2+25N 12+75E	201 ---	19	183	2.6								
LN 2+25N 13+00E	201 ---	24	150	27.0								
LN 2+25N 13+25E	201 ---	24	106	0.6								
LN 2+25N 13+50E	201 ---	116	155	5.8								
LN 2+10N 12+10E	201 ---	29	2750	1.6								

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CERTIFICATION : Hart Buchler



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PHONE (702) 356-5395

To: ARCTEX ENGINEERING

301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

A8719950

Comments: CC: ARCTEX - SILVERTON CC: PAUL KALLOCK

CERTIFICATE A8719950

ARCTEX ENGINEERING
PROJECT : MINOTAUR
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-AUG-87.

SAMPLE PREPARATION

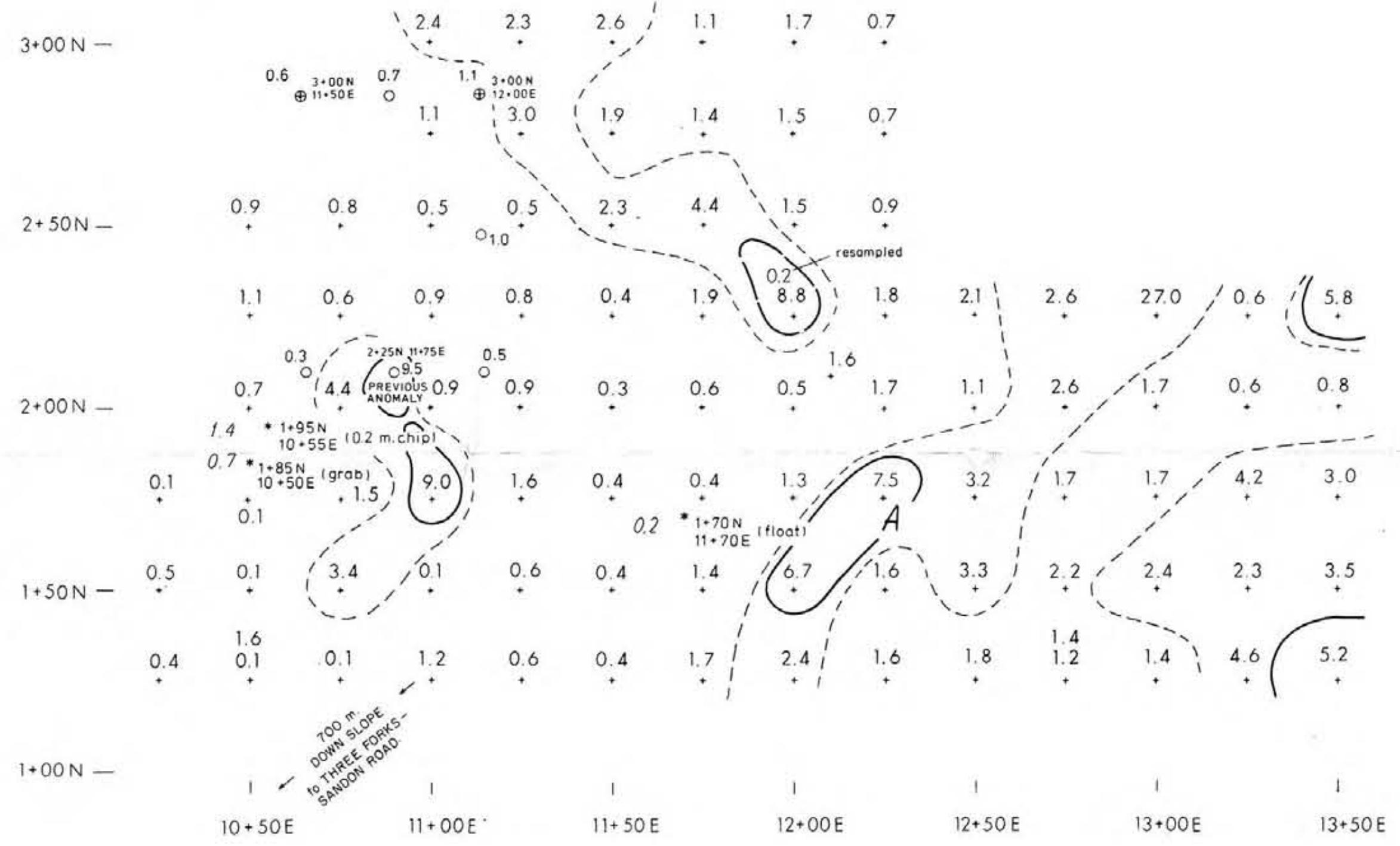
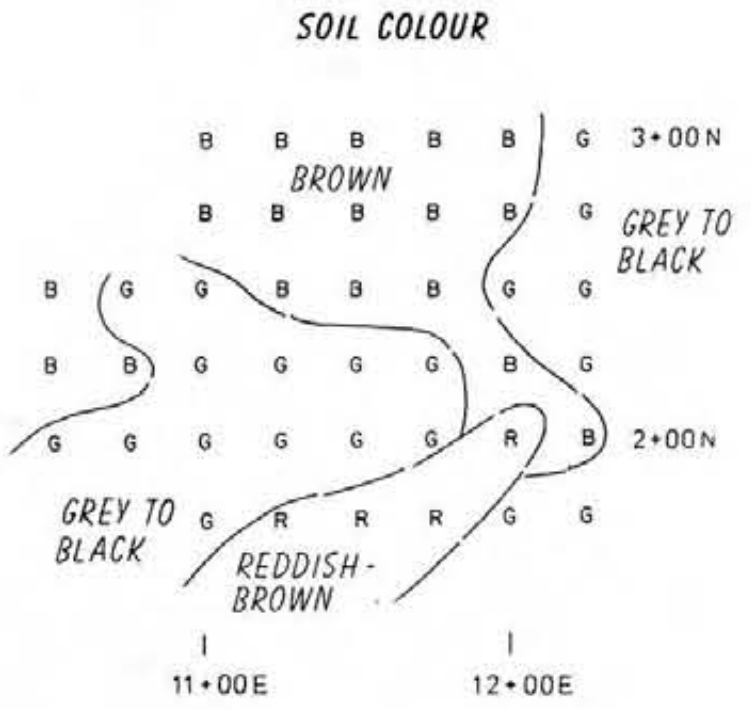
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	1	Rock & core: Ring

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
4	1	Pb ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
5	1	Zn ppm: HNO ₃ -aqua regia digest	AAS	1	10000
6	1	Ag ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	0.1	200

COPY

grid area within
CREEK SIDE CLAIM
1748 (2)



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

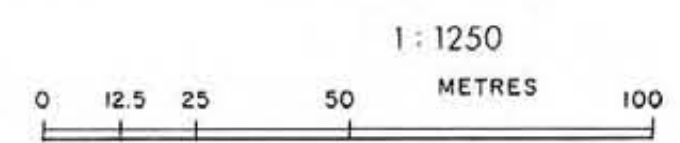
Ag

17,225

SOIL & ROCK GEOCHEMISTRY
ALAMO CLAIM GROUP
CREEK SIDE DETAIL
Three Forks BC 83K/3 Slocan M.D.

To accompany report by
PAUL KALLOCK GEOLOGIST
& L.B. GOLDSMITH P.ENG.
CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES
JANUARY 1988



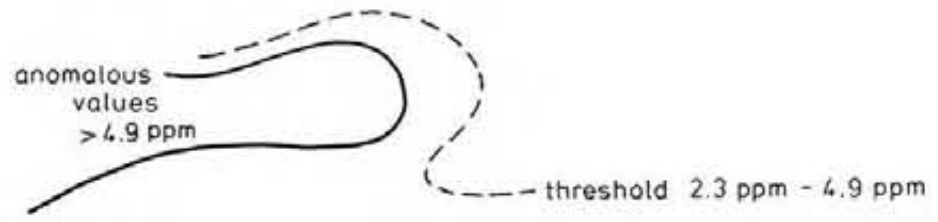
MINOTAUR EXPLORATIONS LTD.



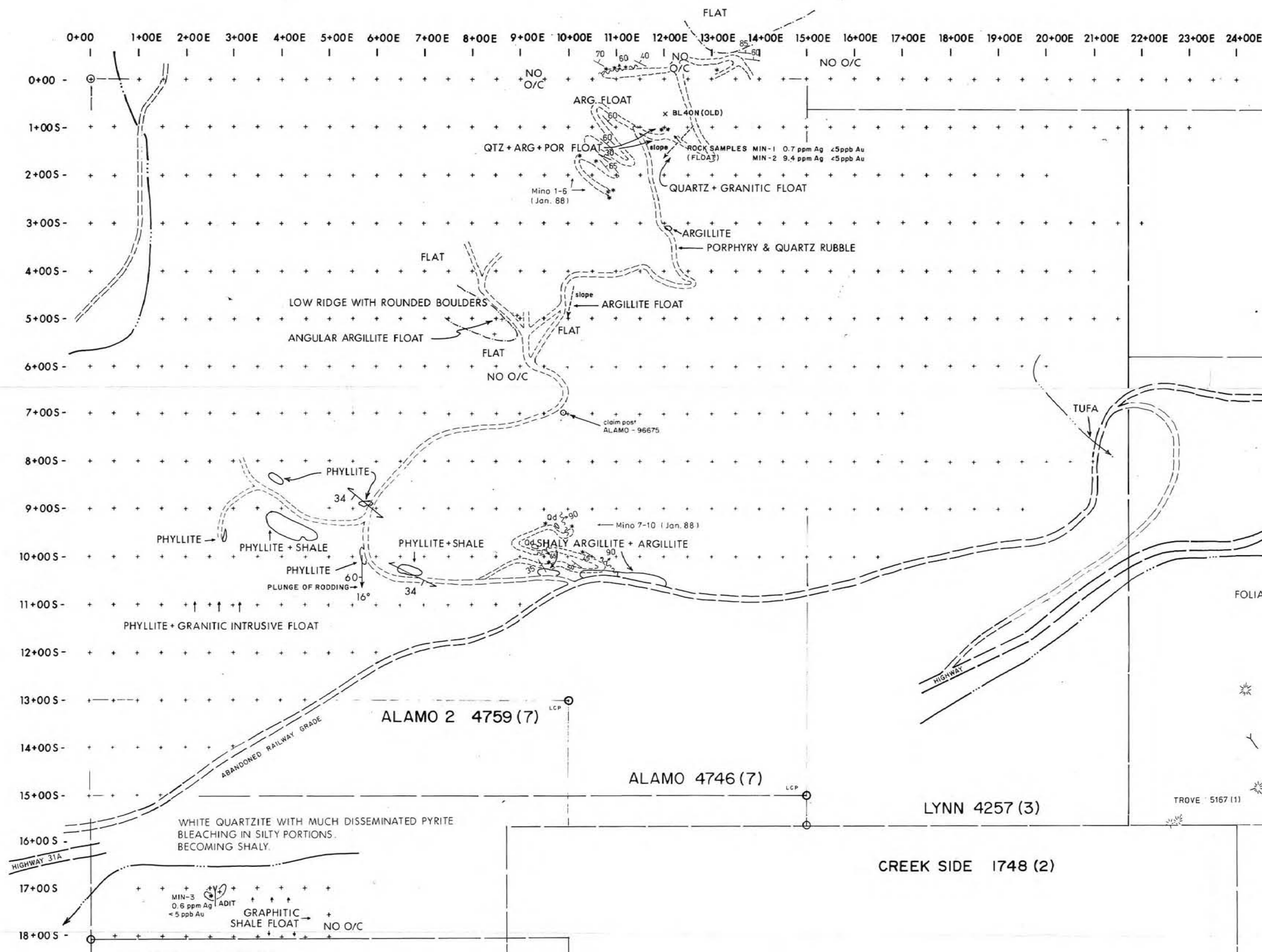
1987 rock sample
⊕ 0.7

1981 soil sample sites
○ 0.7 estimated
⊕ flag observed

1987 soil sample
⊕ 0.7

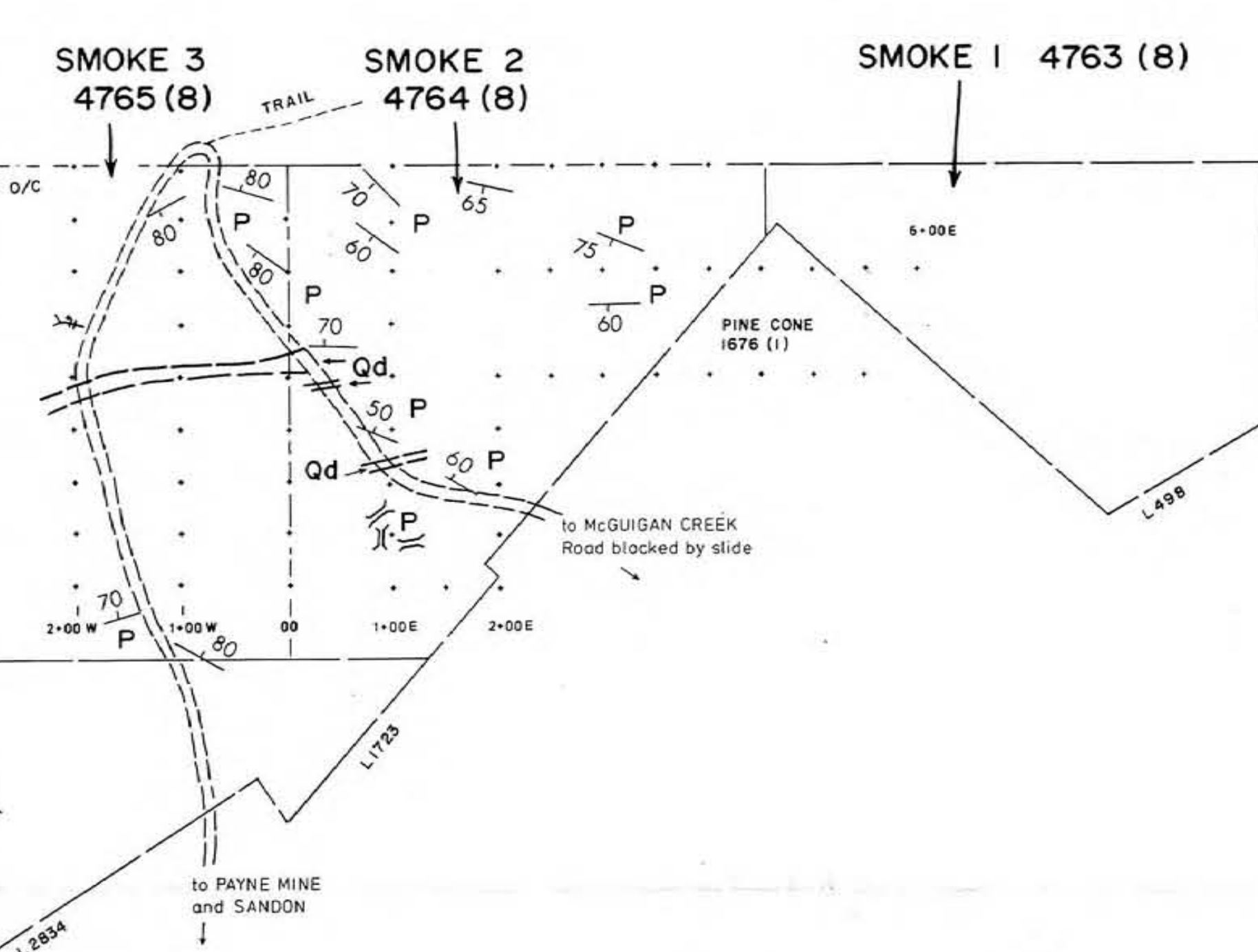
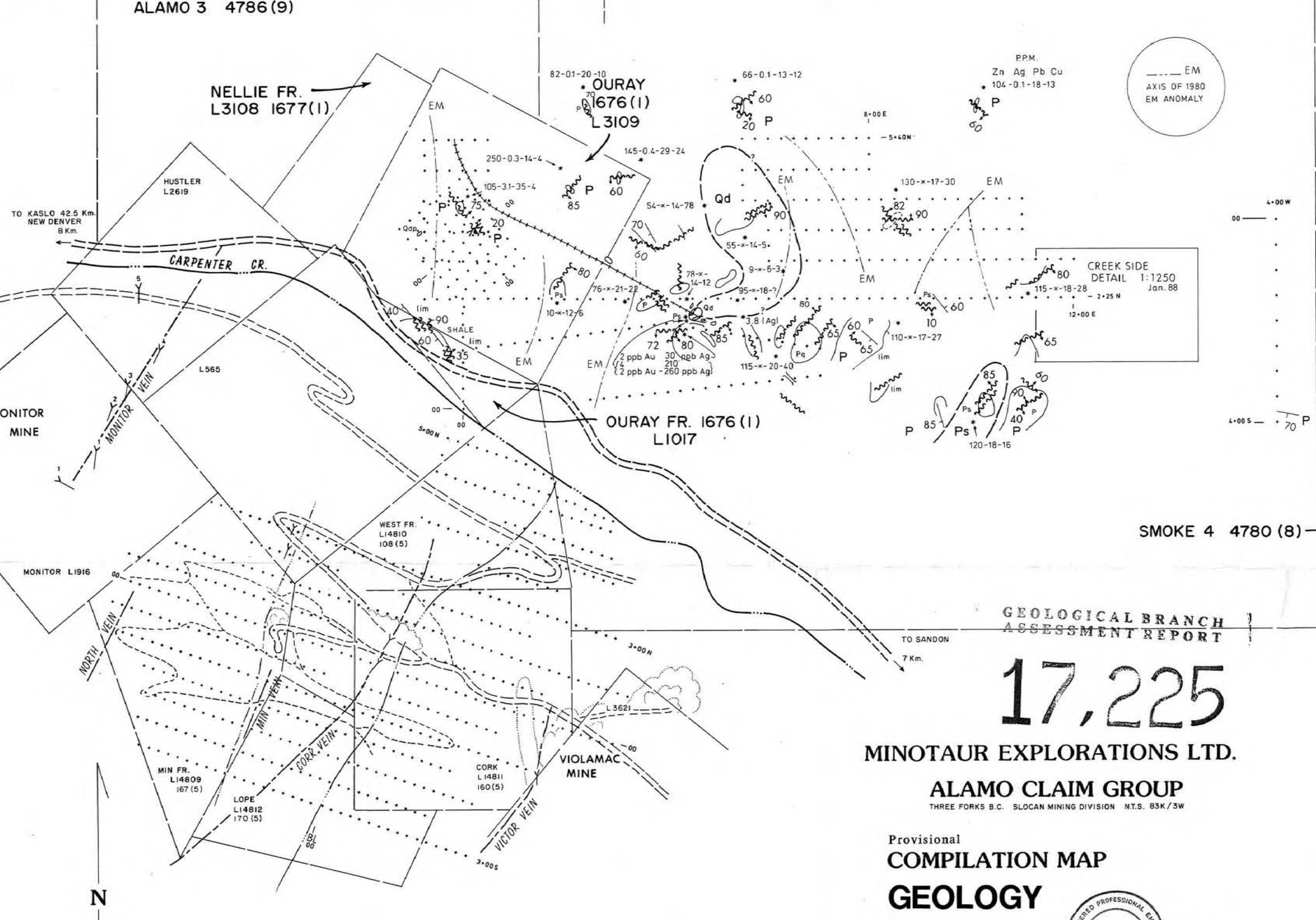


ALL VALUES SHOWN ARE P.P.M.



KEY TO ROCK TYPES

- TRASSIC-JURASSIC
- Granitic intrusives
- Qd QUARTZ DIORITE
- Qdp QUARTZ DIORITE PORPHYRY
- Slocan Group
- Ps PHYLLITE
- P ARGILLITE & SLATE
- Pq WITH QUARTZ VEINLETS
- lim LIMONITE
- py PYRITE
- qv QUARTZ VEINLETS



GEOLOGICAL BRANCH ASSESSMENT REPORT

17,225

MINOTAUR EXPLORATIONS LTD.

ALAMO CLAIM GROUP
THREE FORKS B.C. SLOCAN MINING DIVISION WTS. 83K/3W

Provisional
COMPILATION MAP
GEOLOGY



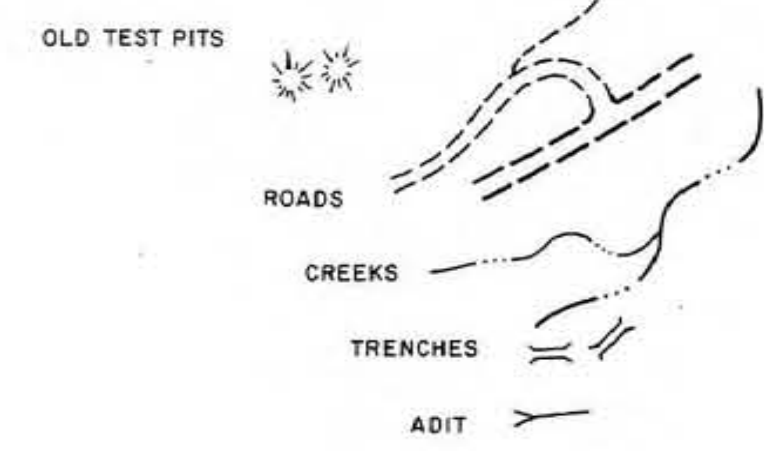
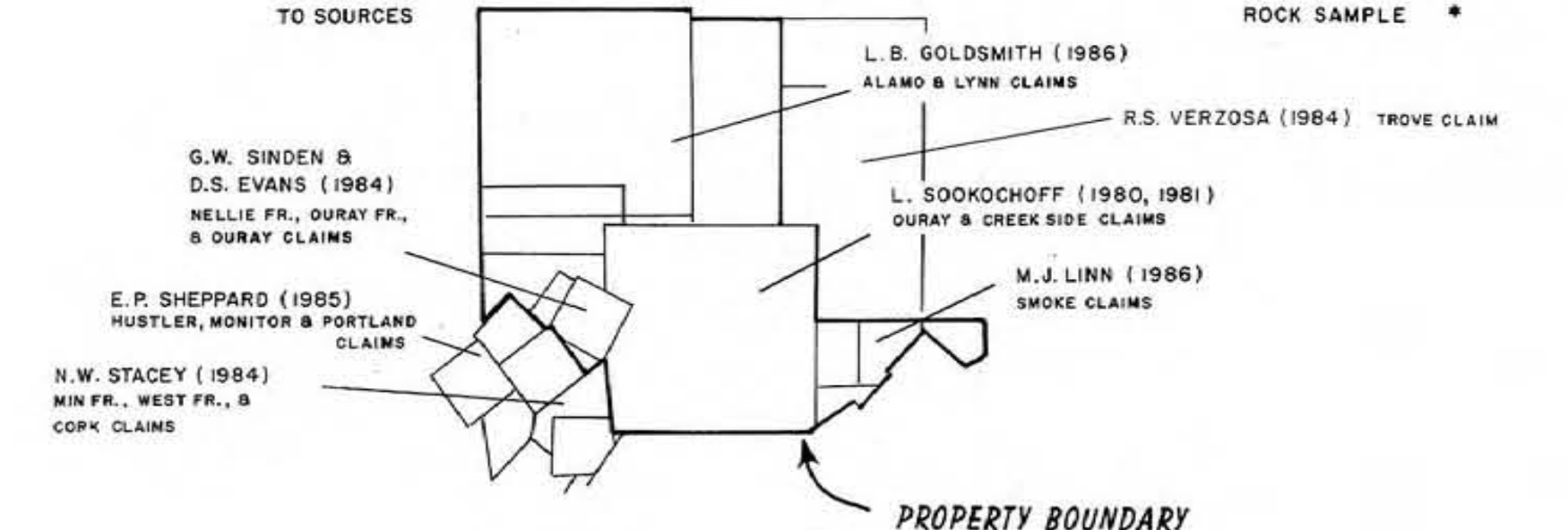
PAUL KALLOCK, Geologist
L.B. Goldsmith, P.Eng.
Arctex Engineering Services

AMENDED JAN. 1988
January 1987

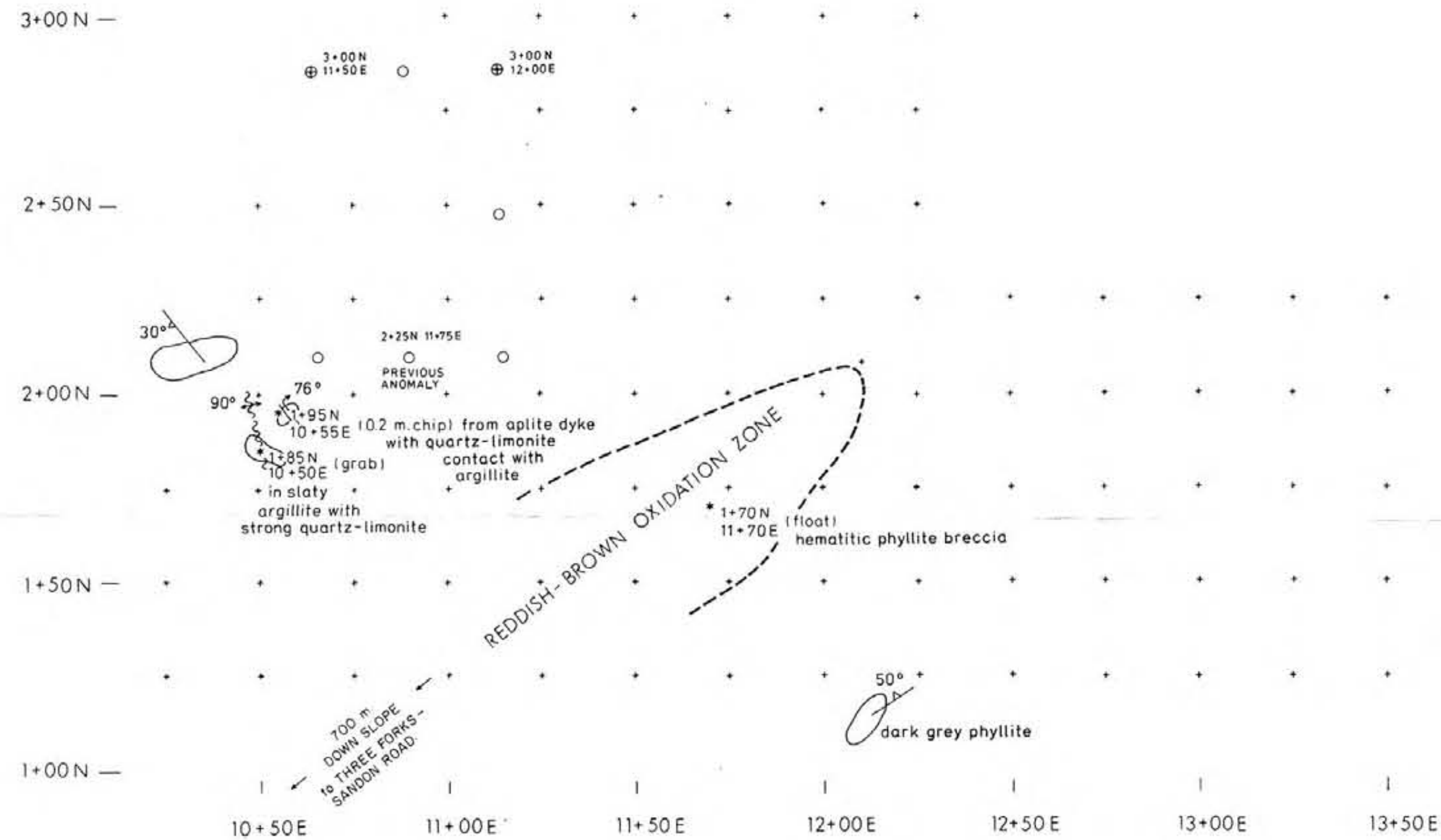
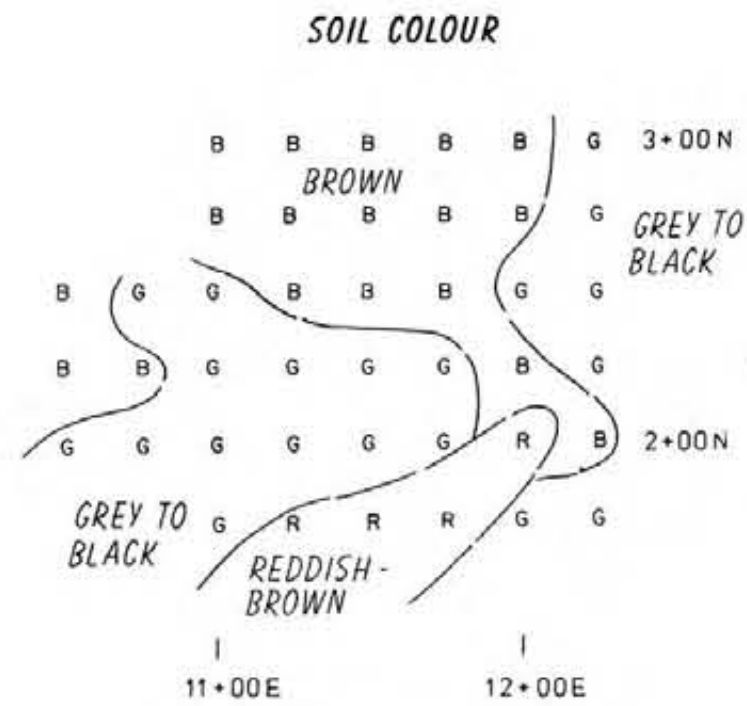
1:5000



KEY TO SOURCES



grid area within
CREEK SIDE CLAIM
1748 (2)



pit
6 m. deep
4 m. wide
15 m. long
no dump
no work sign

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

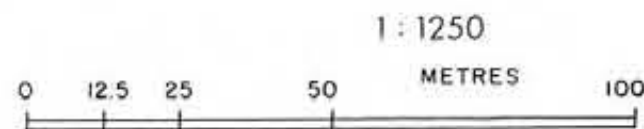
17,225
ALAMO CLAIM GROUP
CREEK SIDE DETAIL

Three Forks BC 83K/3 Slocan M.D.

GEOLOGY

To accompany report by
PAUL KALLOK GEOLOGIST
& **L.B. GOLDSMITH** P.ENG.
CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES
JANUARY 1988



MINOTAUR EXPLORATIONS LTD.

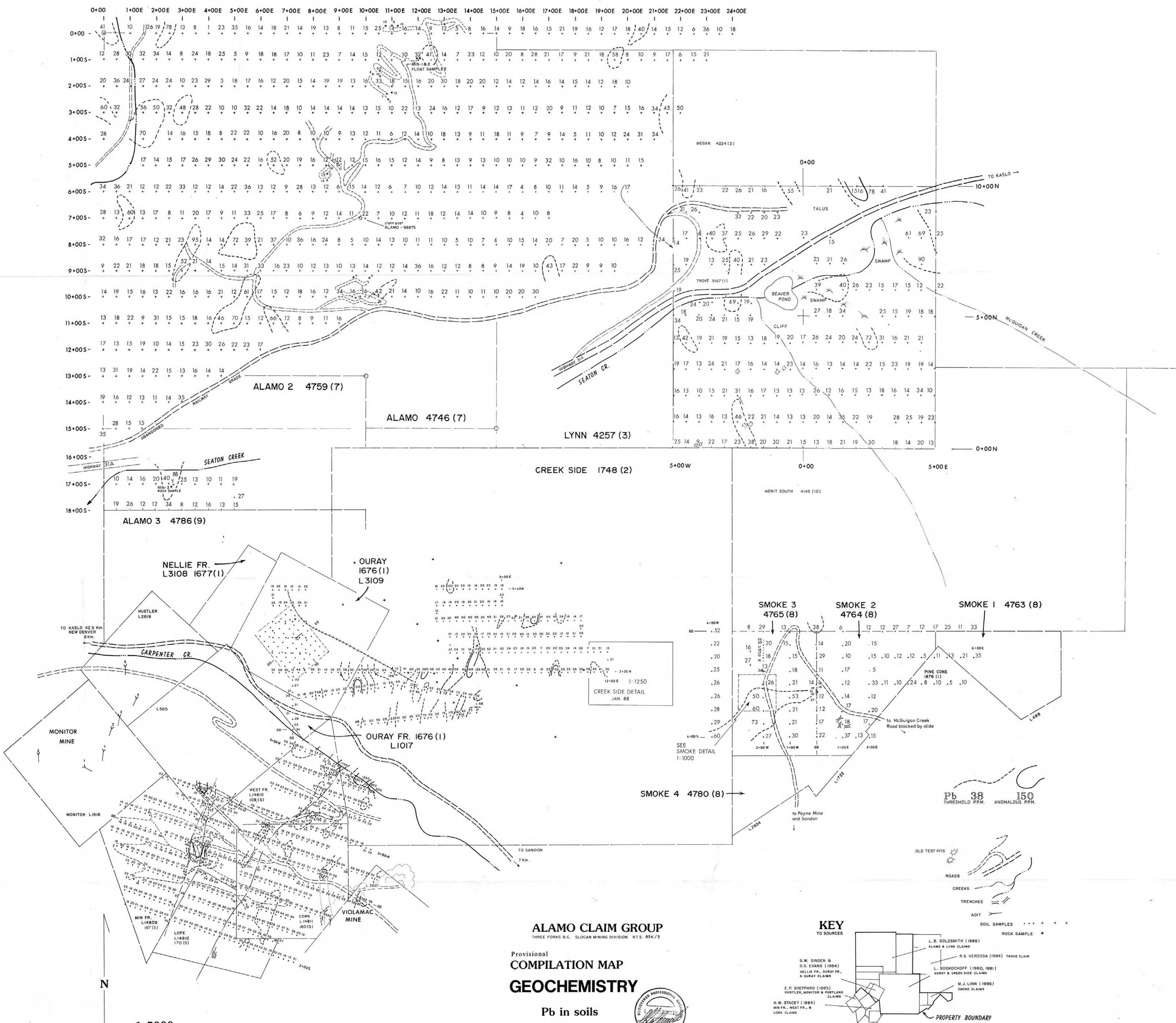


1987 rock sample *
1981 soil sample sites
estimated (circle) flag observed (circle with cross)
1987 soil sample *

50°
attitude of foliation
70°
attitude of dyke
90°
fault zone showing attitude

Younger granitic or aplite dykes or sills
outcrop
UPPER TRIASSIC TO LOWER JURASSIC
SLOCAN GROUP
argillite, phyllite, slate, quartzite, limestone or tuff





ALAMO CLAIM GROUP
THREE FORKS B.C. SLOGAN MINING DIVISION N.T.S. 83K/3

Provisional
COMPILATION MAP
GEOCHEMISTRY

Pb in soils

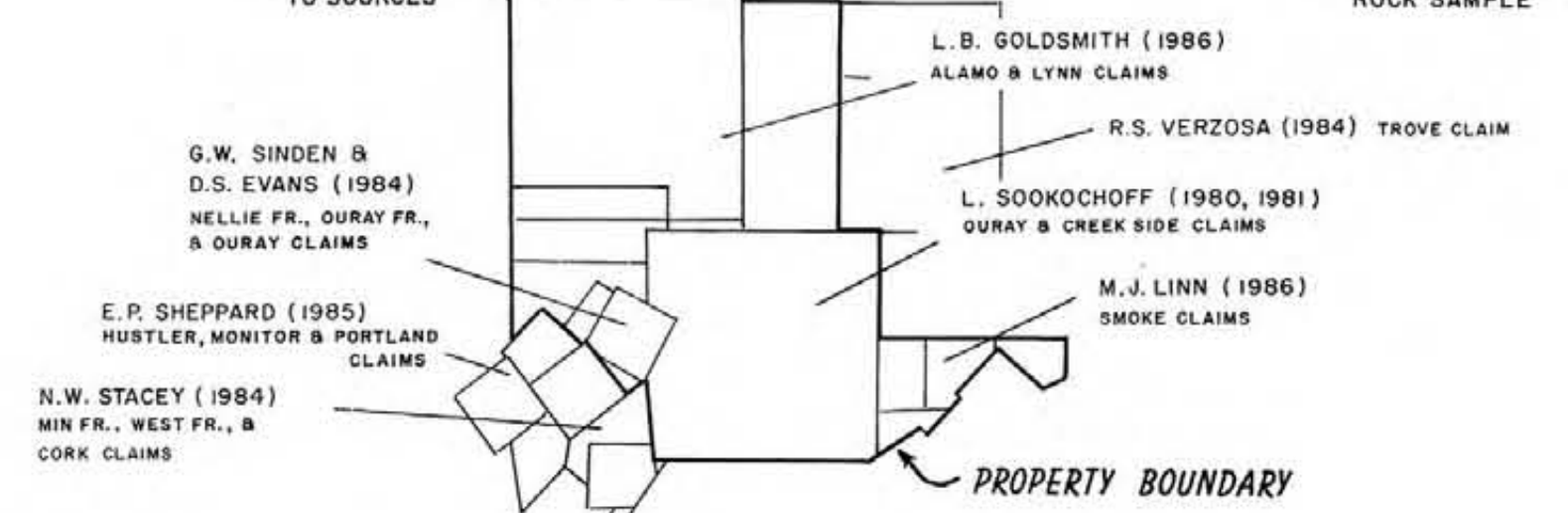
Paul Killock, Geologist
L.B. Goldsmith, P.Eng.
Arctex Engineering Services

AMENDED JANUARY 88
January 1987

MINOTAUR EXPLORATIONS LTD
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,225

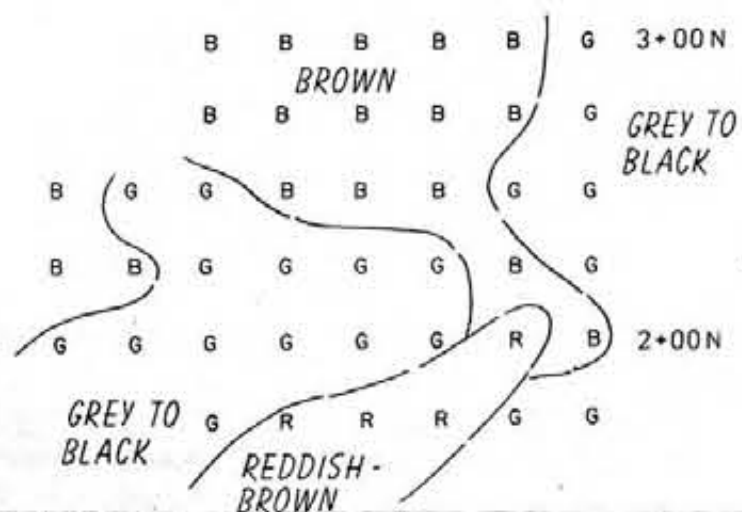
KEY
TO SOURCES



Pb 38 THRESHOLD PPM. 150 ANOMALOUS PPM.

grid area within
CREEK SIDE CLAIM
1748 (2)

SOIL COLOUR



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17, 2025

SOIL & ROCK GEOCHEMISTRY

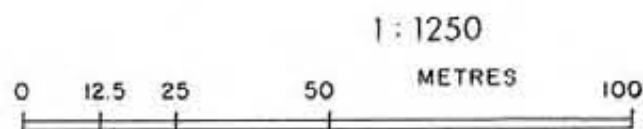
ALAMO CLAIM GROUP

CREEK SIDE DETAIL

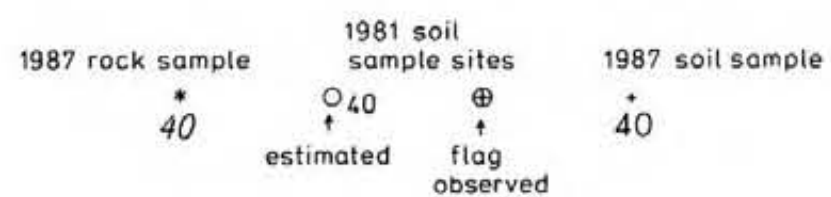
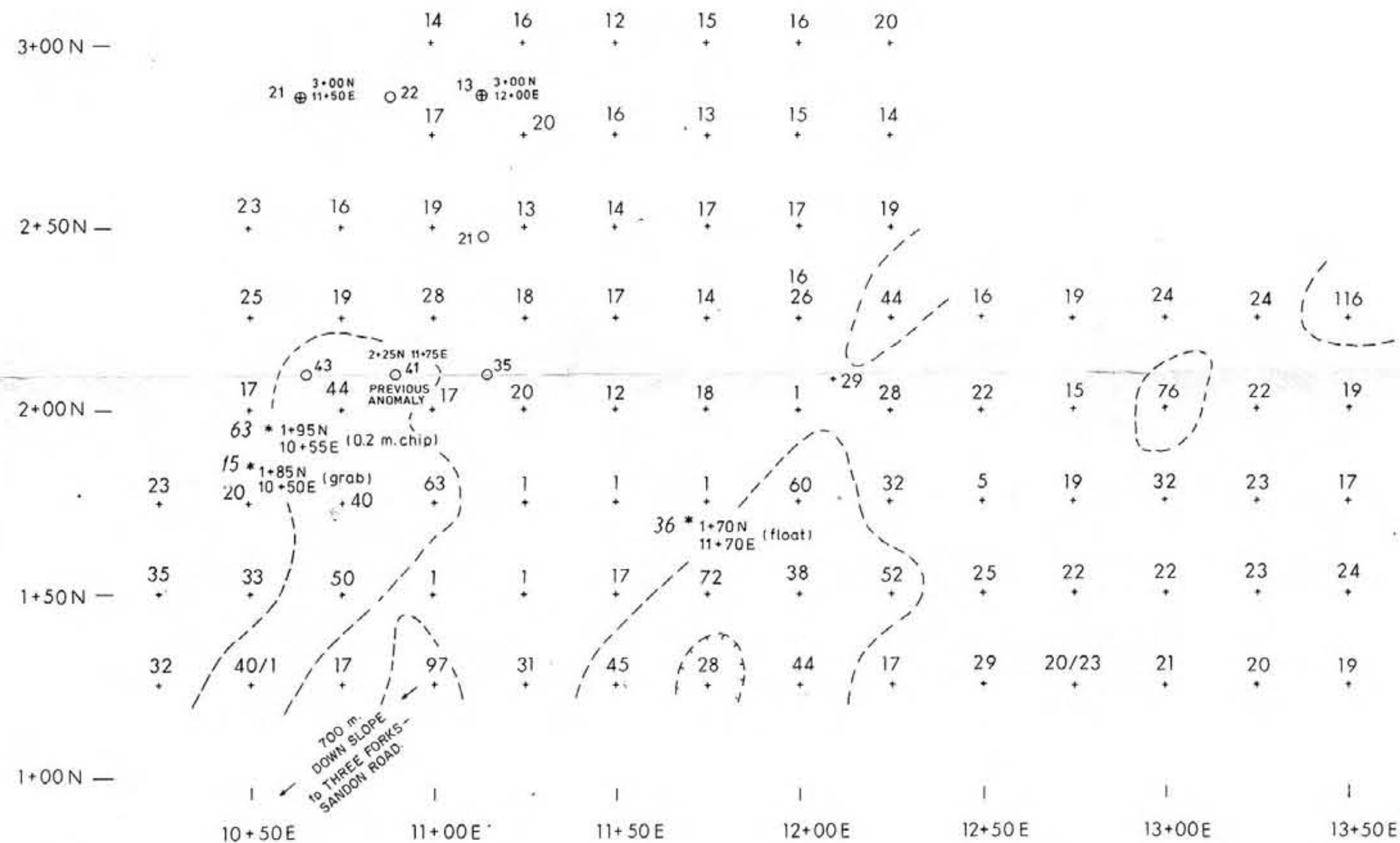
Three Forks BC 83K/3 Slocan M.D.

To accompany report by
PAUL KALLOCK GEOLOGIST
& L.B. GOLDSMITH P.ENG.
CONSULTING GEOLOGIST

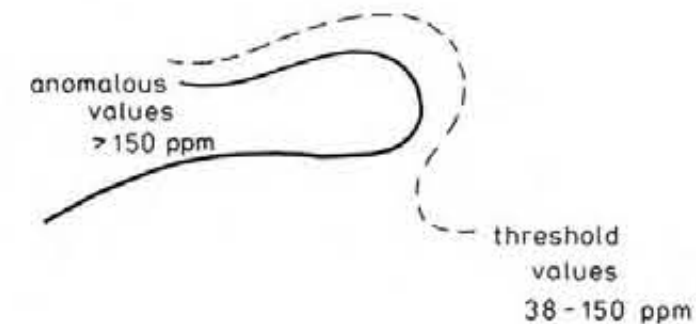
ARCTEX ENGINEERING SERVICES
JANUARY 1988

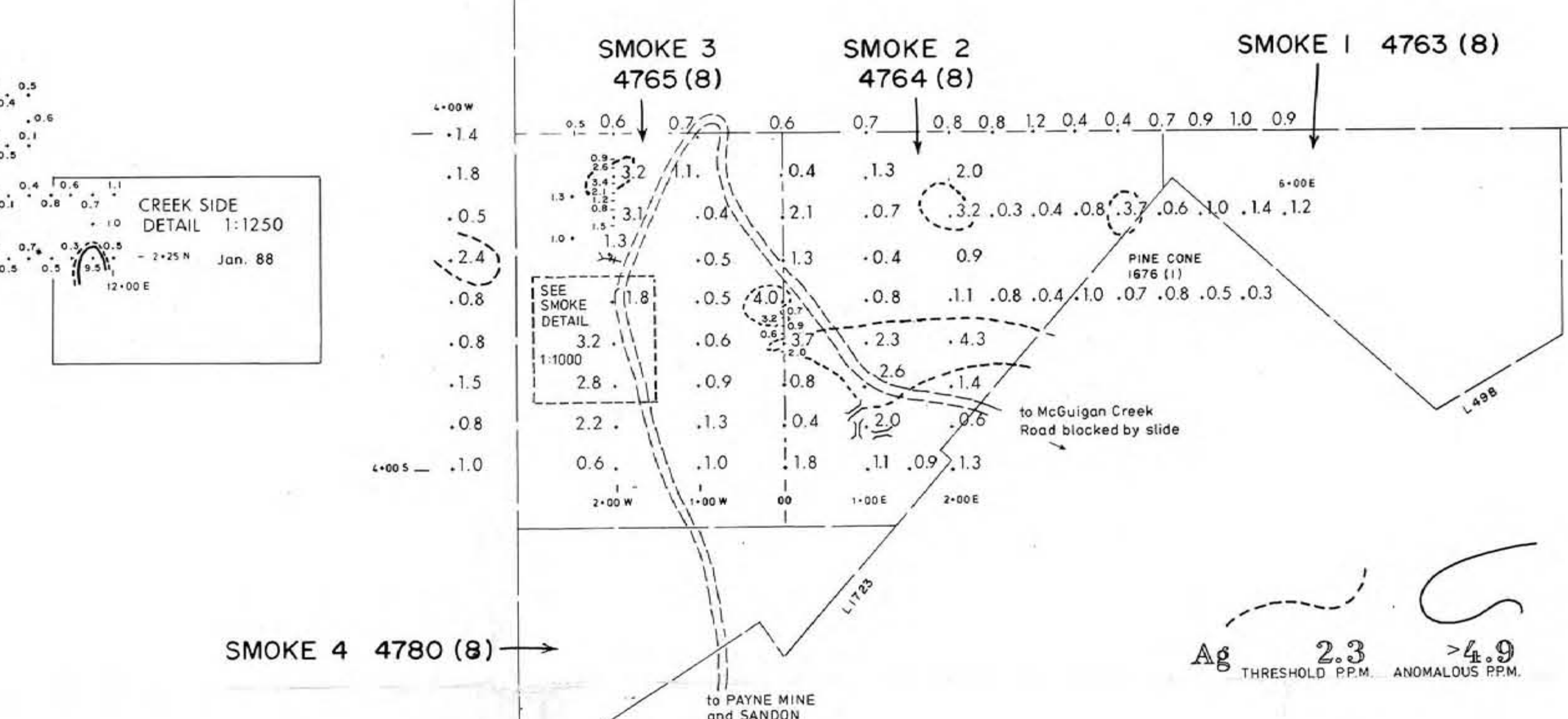
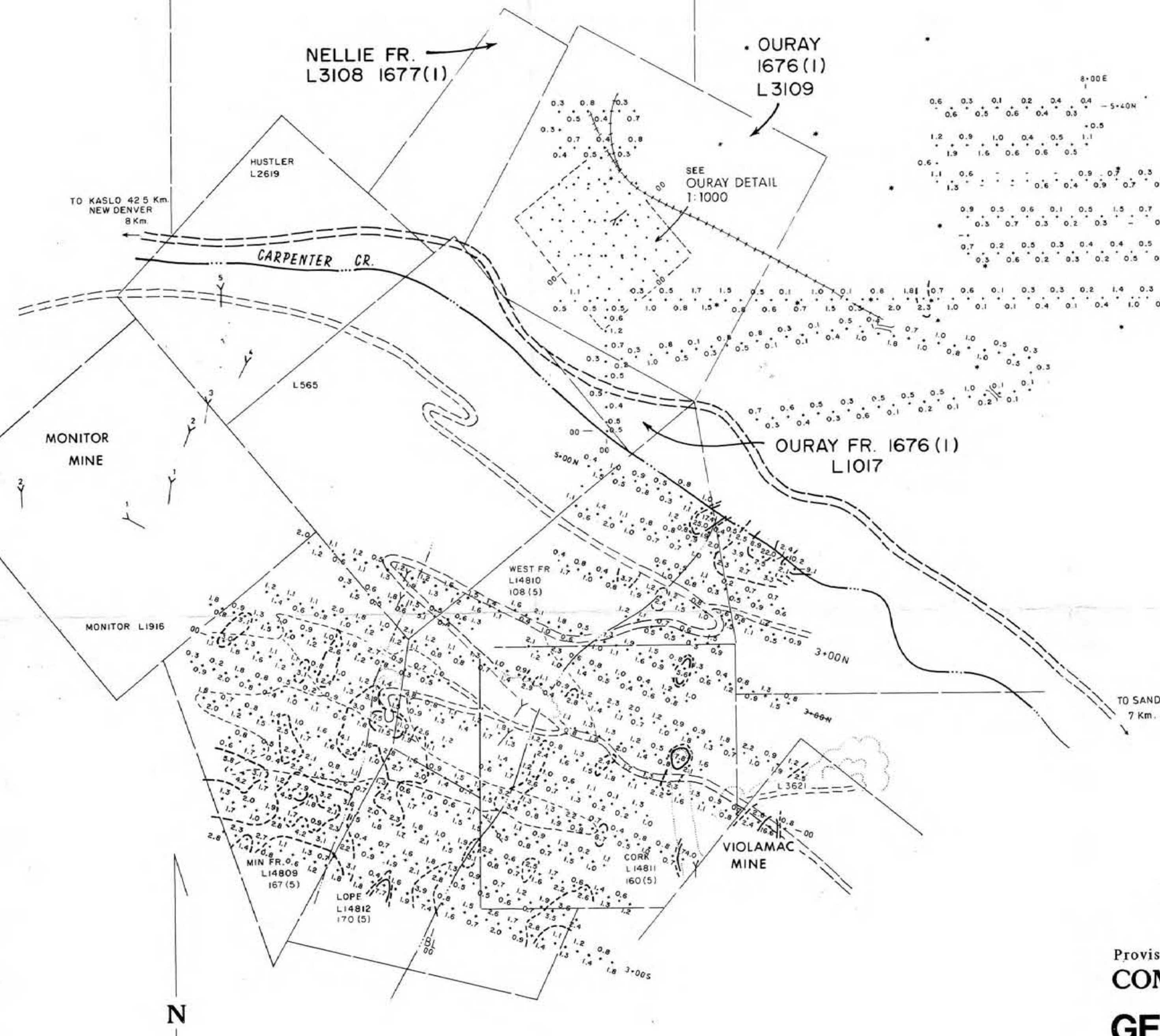
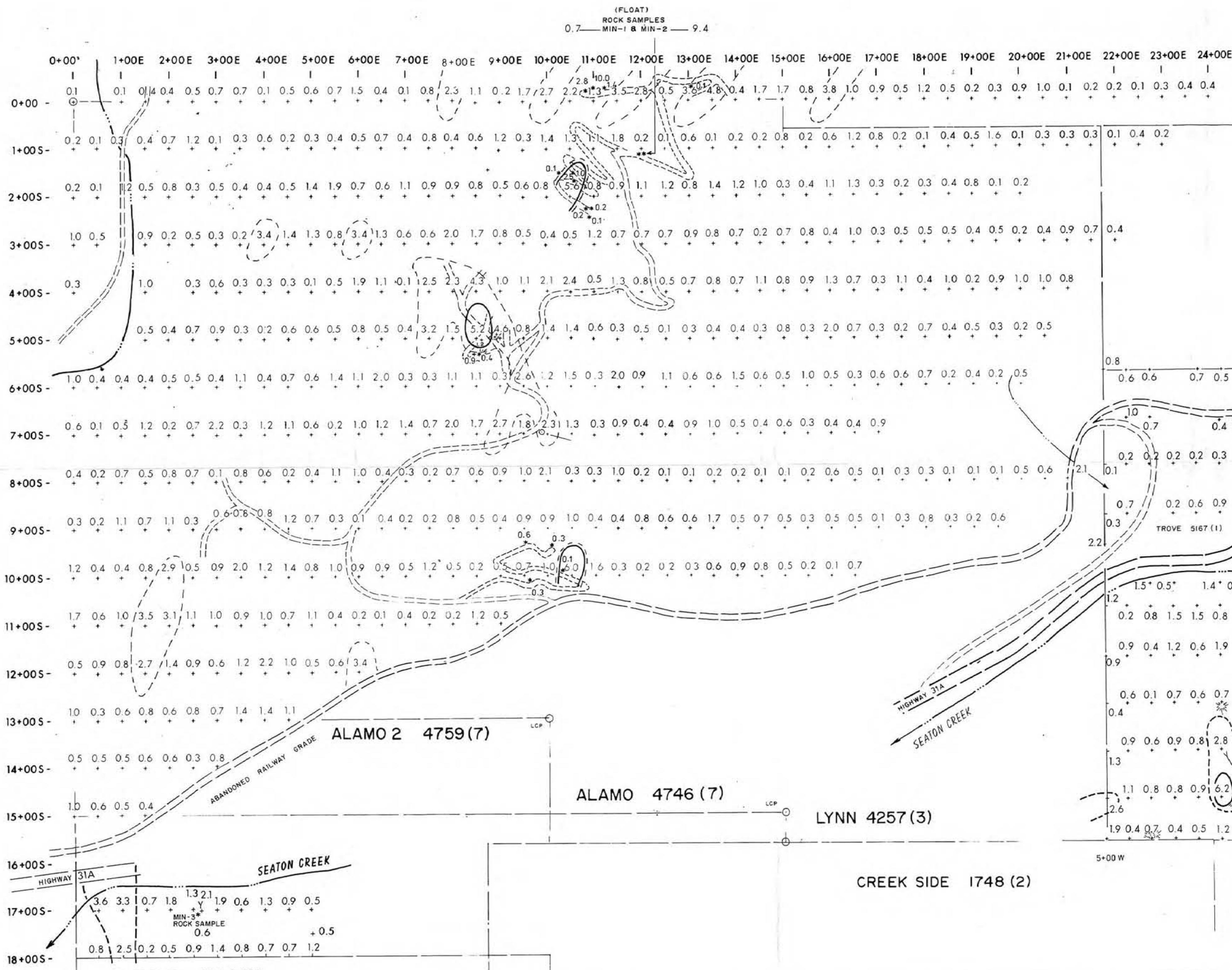


MINOTAUR EXPLORATIONS LTD.



ALL VALUES SHOWN ARE P.P.M.





GEOLOGICAL BRANCH
ASSESSMENT REPORT
17,225

ALAMO CLAIM GROUP
THREE FORKS B.C. SLOCAN MINING DIVISION N.T.S. 834/3W

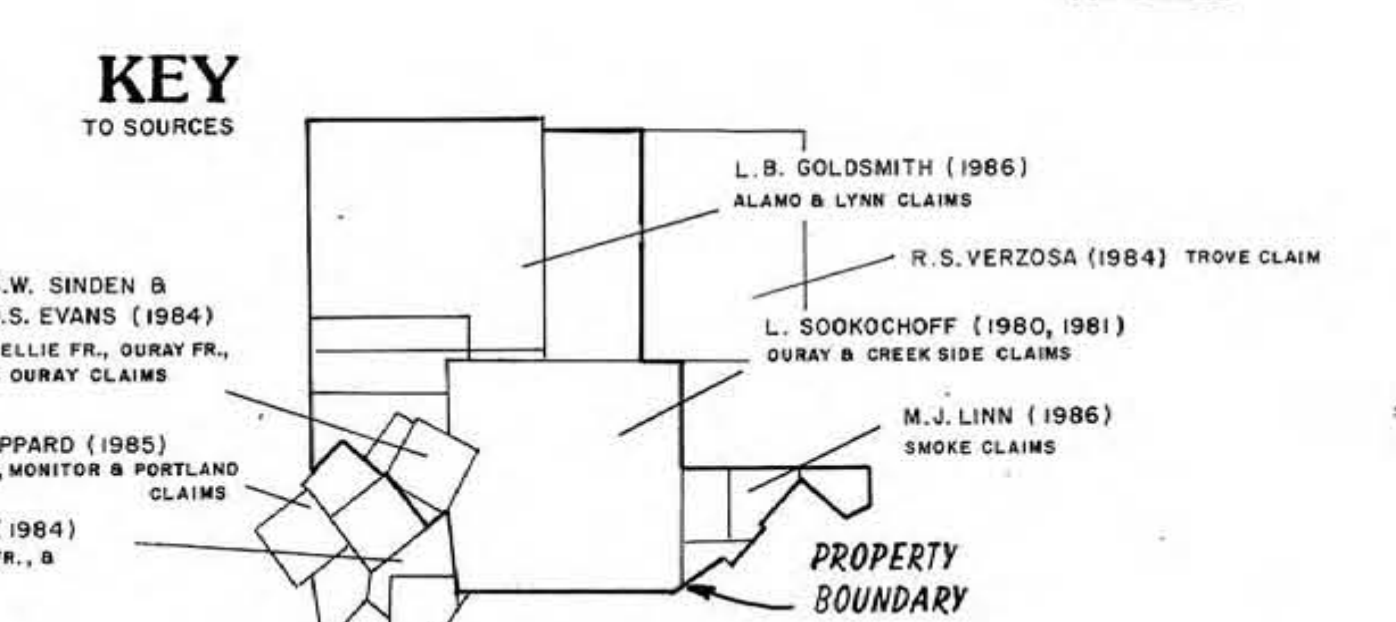
**Provisional
COMPILATION MAP
GEOCHEMISTRY**

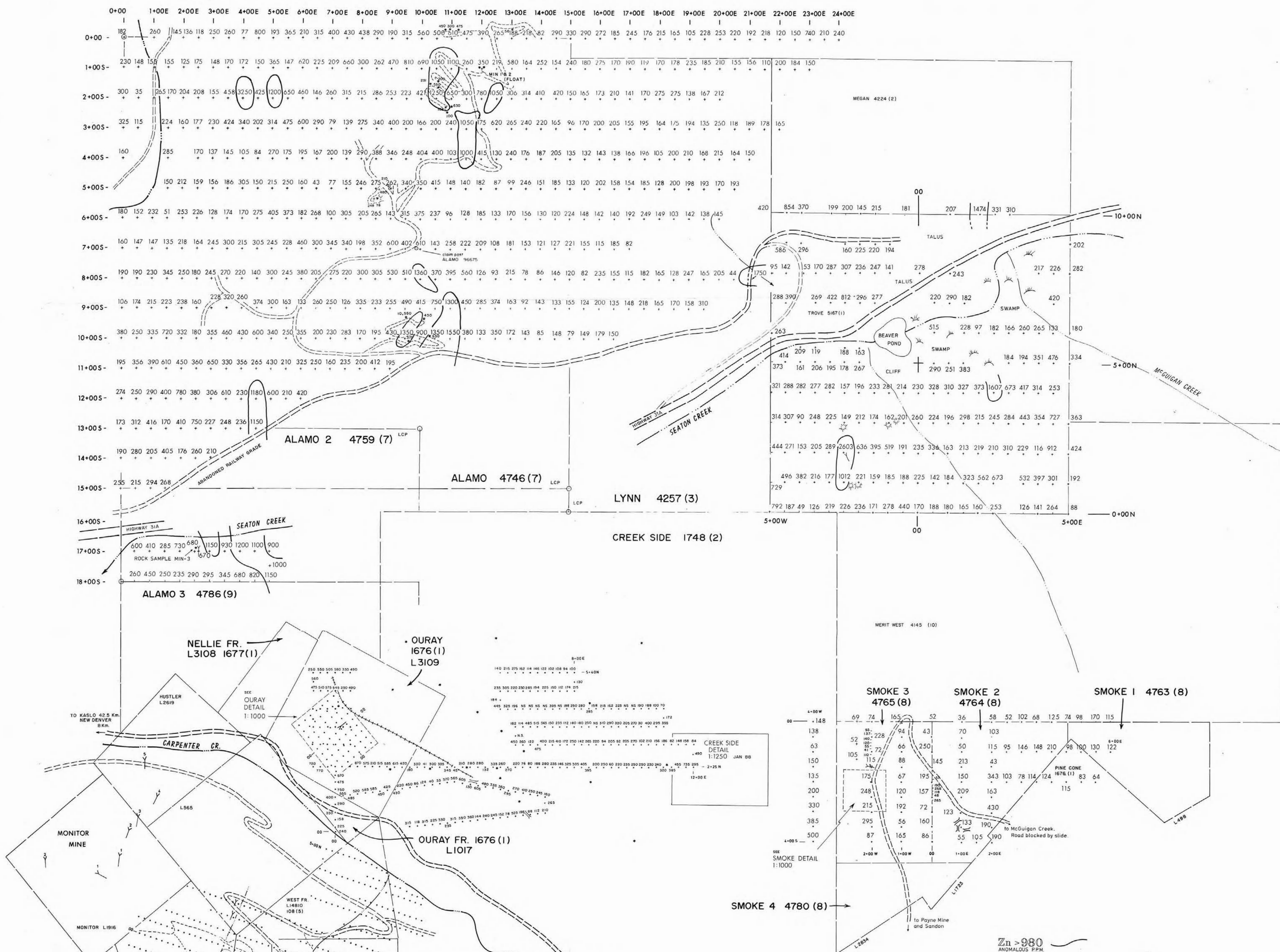
ppm Ag in soils

Paul Kallack, Geologist
L.B. Goldsmith, P.Eng.
Artex Engineering Services

AMENDED JAN. 88
January 1987

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N

1:5000



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,225

ALAMO CLAIM GROUP
THREE FORKS B.C. SLOCAN MINING DIVISION N.T.S. 83K/3

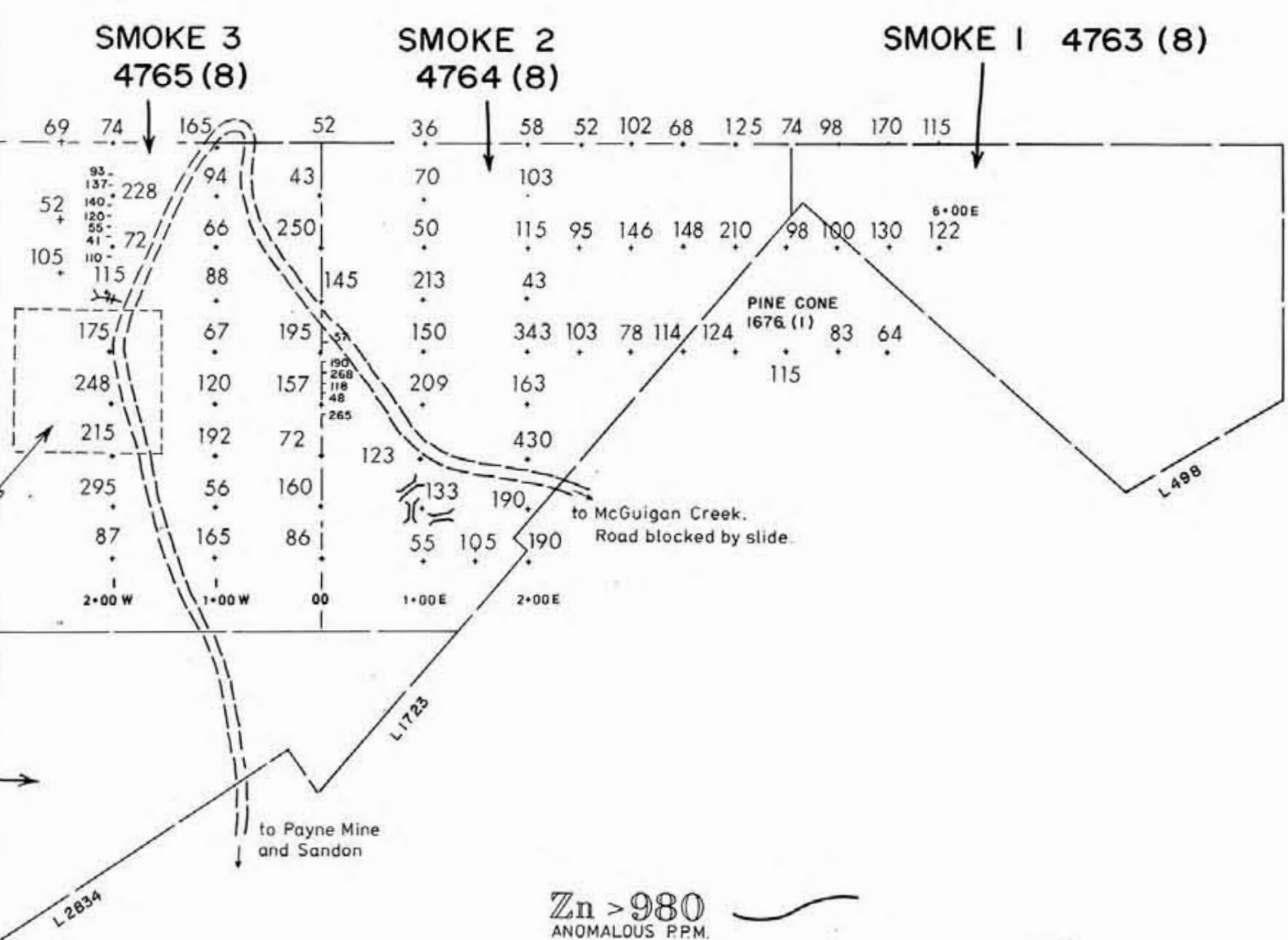
Provisional
COMPILATION MAP
GEOCHEMISTRY

Zn in soils

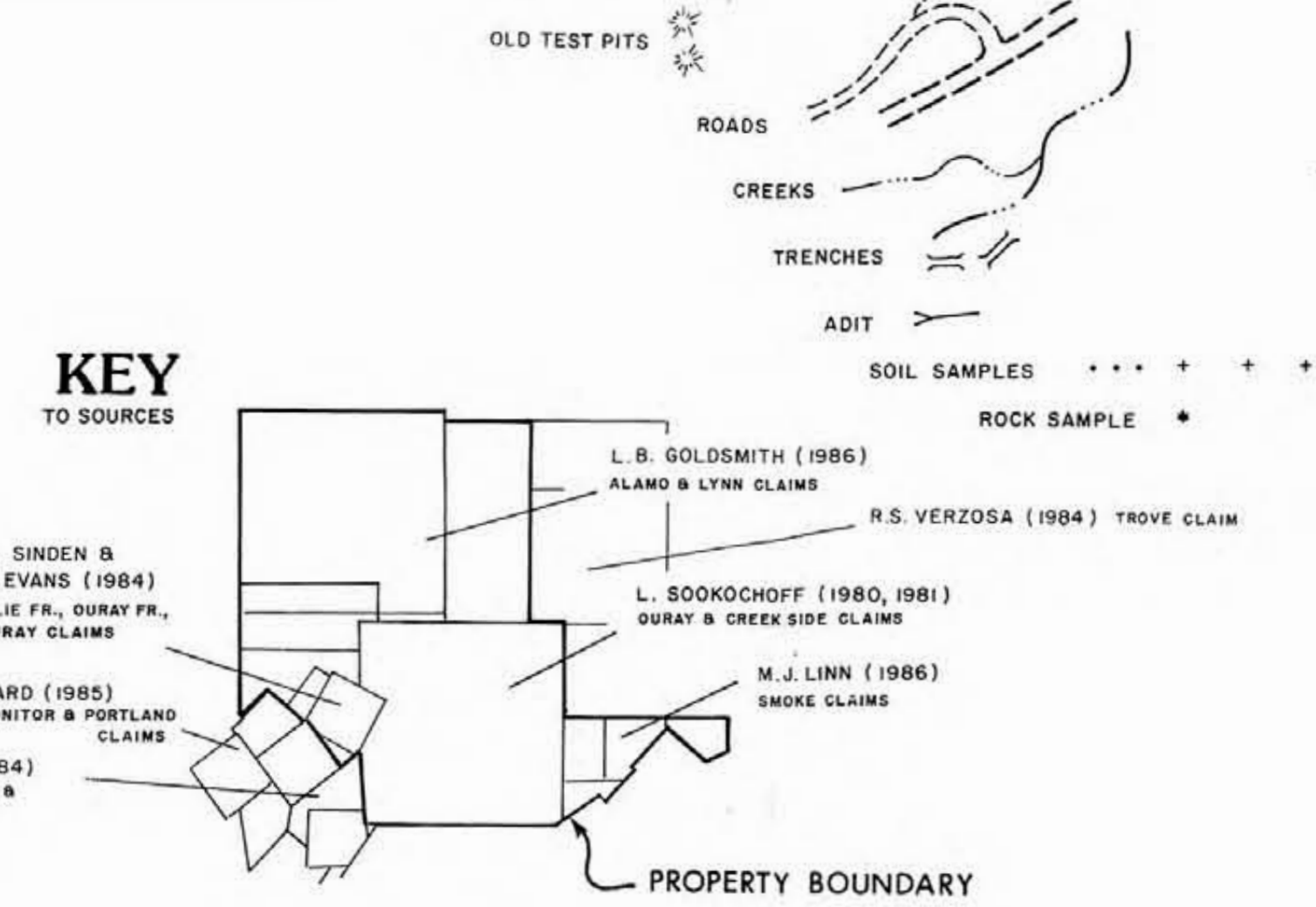
Paul Killook, Geologist
L.B. Goldsmith, P.Eng.
Arcx Engineering Services

AMENDED JAN. 1988
January 1987

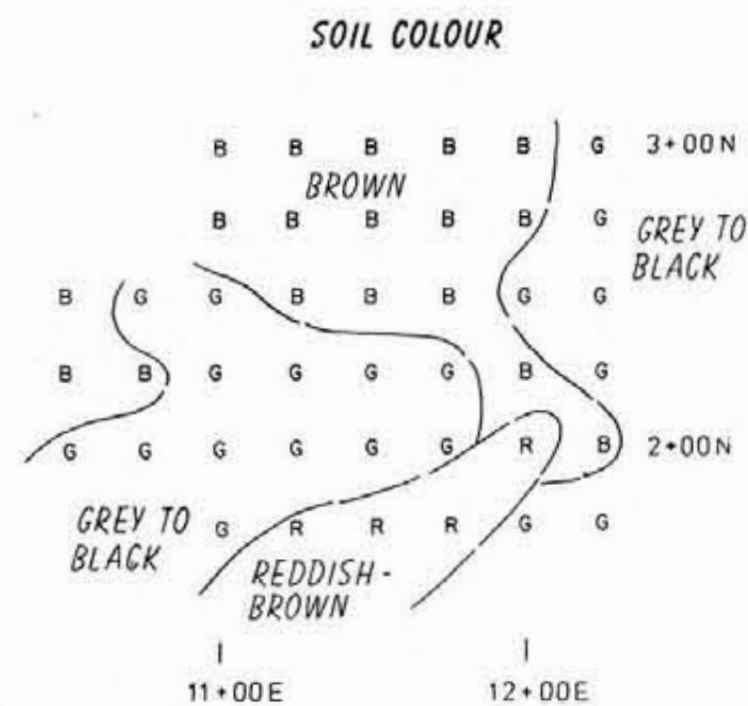
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Zn > 980
ANOMALOUS PPM



grid area within
CREEK SIDE CLAIM
1748 (2)



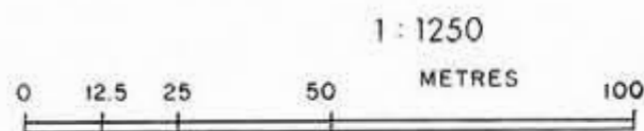
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Zn
17,225
SOIL & ROCK GEOCHEMISTRY
ALAMO CLAIM GROUP

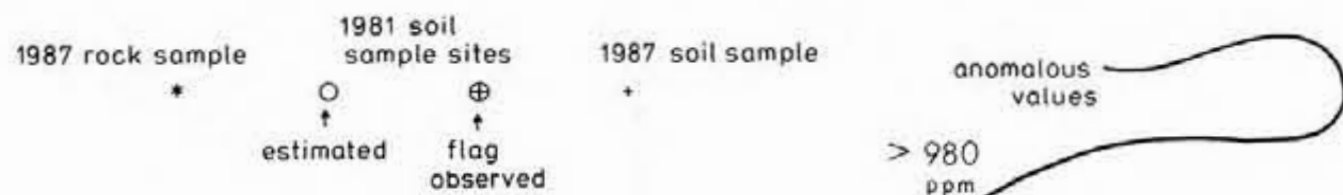
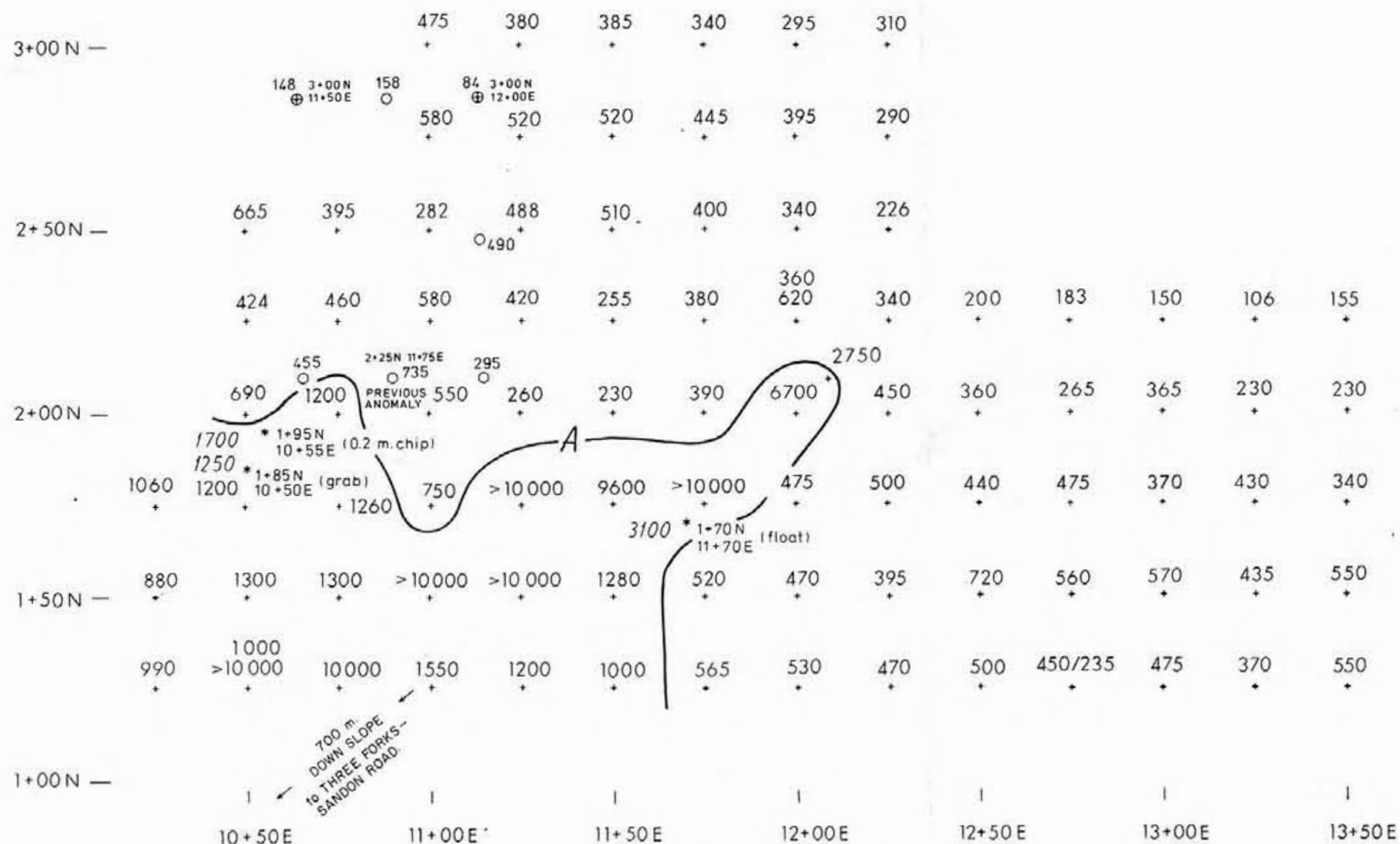
CREEK SIDE DETAIL
Three Forks BC 83K/3 Slocan M.D.

To accompany report by
PAUL KALLOCK GEOLOGIST
& L.B. GOLDSMITH P.ENG.
CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES
JANUARY 1988



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ALL VALUES SHOWN ARE P.P.M.