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GEOLOGY AND SOIL GEOCHEMISTRY
SMOKE, TRAK, CREEK SIDE ET AL.
MINERAL CLAIM GROUP
SLOCAN MINING DIVISION
PAYNE MOUNTAIN
SANDON, B.C.
NTS 82 K/3 W AND 3 E
LATITUDE 50°01'30"N, LONGITUDE 117°15'W

Prepared for

MINOTAUR EXPLORATIONS LTD.

ARCTEX ENGINEERING SERVICES

Locke B. Goldsmith, P.Eng., P.Geo.
Consulting Geologist

January 29, 1992

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,144

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**GEOLOGY AND SOIL GEOCHEMISTRY
SMOKE, TRAK, CREEK SIDE ET AL.
MINERAL CLAIM GROUP
SLOCAN MINING DIVISION
PAYNE MOUNTAIN
SANDON, B.C.**

SUMMARY

Geological mapping has identified a drill target within a fracture zone which is situated 175 metres into the footwall and parallel to the formerly productive Payne vein. A reserve of high-grade silver-lead-zinc could be identified by diamond drilling.

A budget of \$50,600 for approximately 300 metres of drilling and peripheral services is estimated.

PROPERTY, LOCATION, ACCESS

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 from 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.

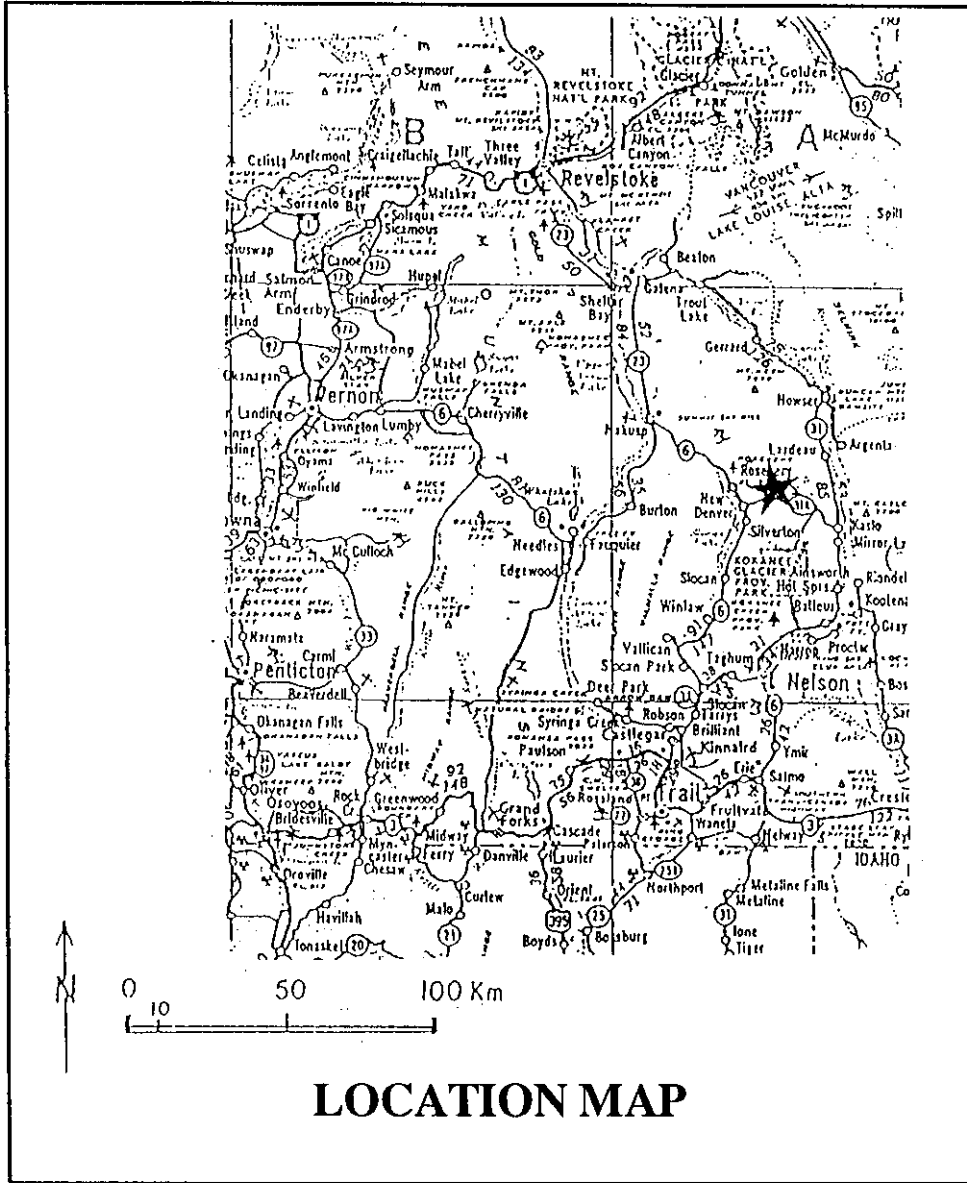
The contiguous group consists of 15 claims and fractions totalling 49 units, less indentations around the outer boundary for a net of approximately 44 units (1100 hectares). Recording data are as follows:

<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(8)	Aug. 21, 1987
Trak	1		5684(5)	May 9, 1988
Trak Fr	1		303923	Sept. 11, 1991

MINOTAUR EXPLORATIONS LTD.

SMOKE, TRAK, CREEK SIDE ET AL. CLAIM GROUP

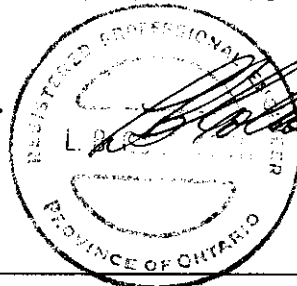
SLOCAN MINING DIVISION SANDON, B.C. NTS 82 K/3 W and 3 E



LOCATION MAP

ARCTEX ENGINEERING SERVICES

To accompany report by
Locke B. Goldsmith, P.Eng., P.Geo.
Consulting Geologist

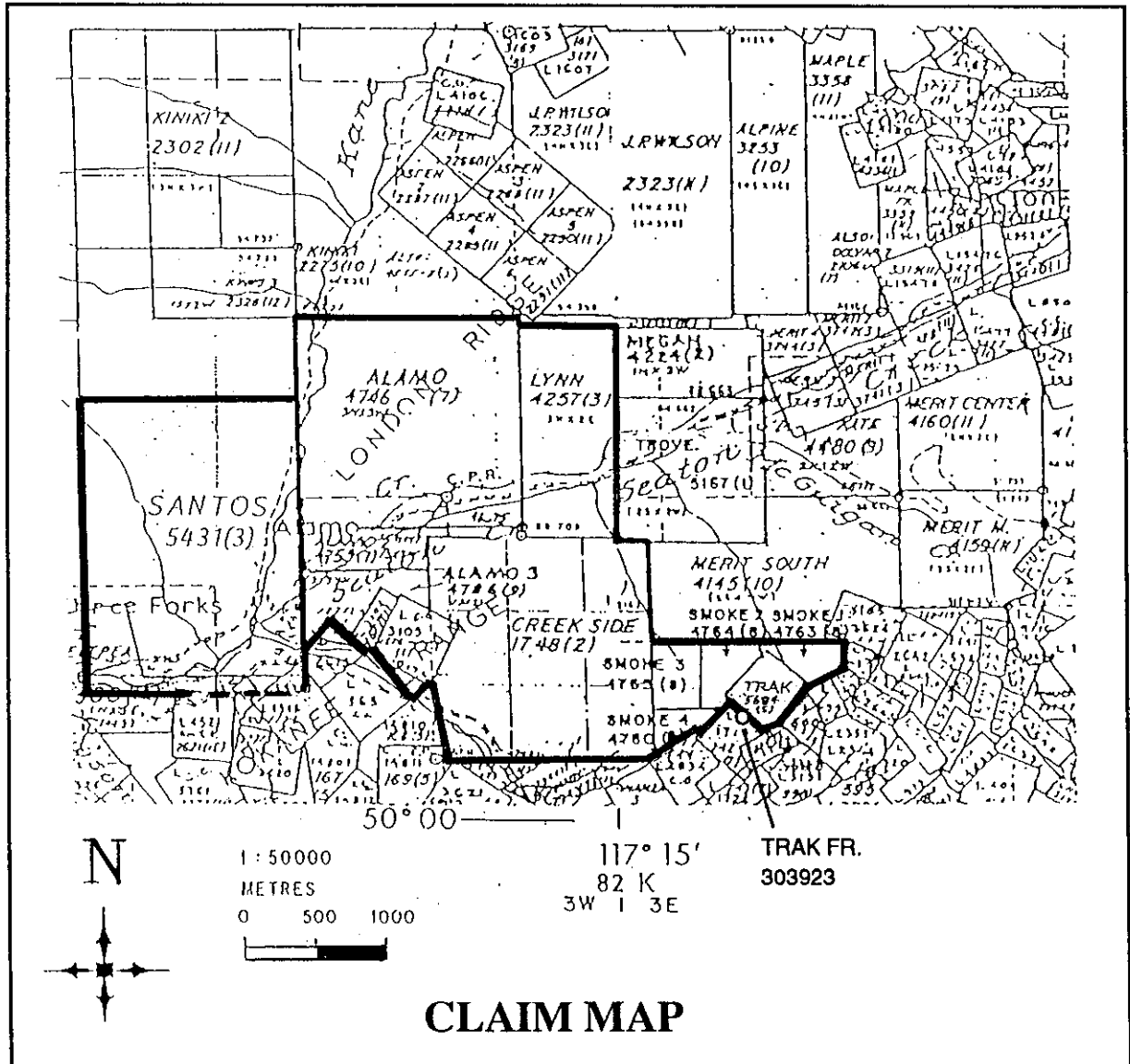


January 1992

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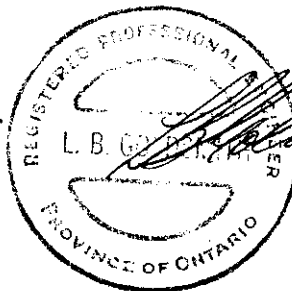
SMOKE, TRAK, CREEK SIDE ET AL. CLAIM GROUP

SLOCAN MINING DIVISION SANDON, B.C. NTS 82 K/3 W and 3 E



ARCTEX ENGINEERING SERVICES

To accompany report by
 Locke B. Goldsmith, P.Eng., P.Geo.
 Consulting Geologist



January 1992

HISTORY

No history of production is known. Only short adits and small trenches have been observed. Recorded work prior to 1986 has been mainly soil geochemistry and geological mapping by various operators from 1980 to 1985; VLF-EM was conducted by Sookochoff in 1980 and 1981. From 1986 through 1988 soil geochemistry, geological mapping, and trenching have been completed on various parts of the claim group by the author of this report. Titles of reports which document all of the above work with company names where available are included on the References pages.

Maps of the Creek Side detail area and Smoke-Trak area have been amended by the addition of soil geochemistry and geological mapping which was undertaken during September and October 1991.

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 Payne, Monitor, Cork, and Victor (Violamac) deposits, occur to the southwest of the claims.

Detailed geological mapping has been completed on the Smoke and Trak claims and the area around the Payne Mine. The competent argillite and limestone rocks which host the Payne vein have been traced into the Smoke claims. Splays of a fracture zone have been observed parallel to the Payne vein in non-competent shale and shaly argillite in and near adits on the Trak claim.

Attitudes of foliation (which in some outcrops may also be bedding) on opposite sides of the Payne vein structure show deflections. Similar deflections can be seen in several locations on the Smoke and Trak claims where a fracture zone is either observed or inferred (see Interpretive Geology Map, in pocket of this report).

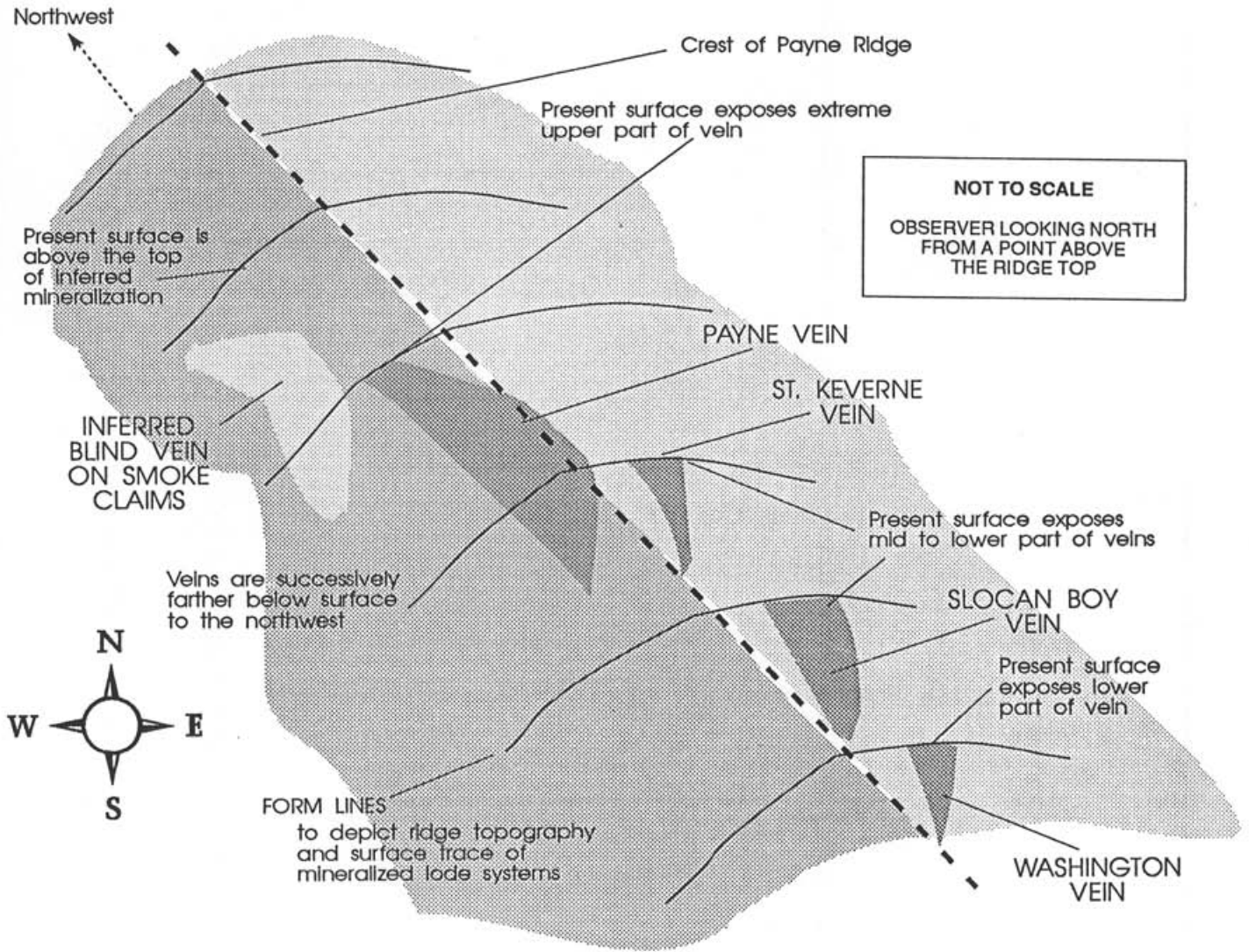
Production from the Payne Mine is listed in MINDEP files of the University of British Columbia as:

Tons	Ag oz/ton	Pb %	Zn %
121,921	30.7	15.7	1.57

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SMOKE, TRAK, CREEK SIDE ET AL. CLAIM GROUP

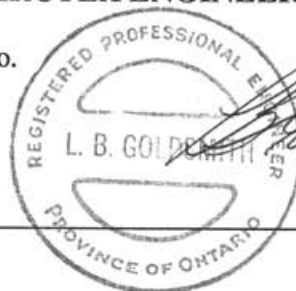
SLOCAN MINING DIVISION SANDON, B.C. NTS 82 K/3 W and 3 E



STYLIZED COMPOSITE LONGITUDINAL VIEW OF HIGH-GRADE SILVER-LEAD-ZINC VEINS ON PAYNE RIDGE

ARCTEX ENGINEERING SERVICES

To accompany report by
 Locke B. Goldsmith, P.Eng., P.Geo.
 Consulting Geologist



Locke B. Goldsmith



January 1992

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This figure includes a considerable amount of low-grade ore which was mined towards the end of the mine life. Early silver grades were approximately 180 oz/ton.

SOIL GEOCHEMICAL SURVEY

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

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.

Smoke and Trak Claims

The grid was extended across the Payne Mine workings to provide comparative data. Anomalous values are present adjacent to the workings, but the geochemical indications do not persist more than a few metres to either side of the stopes or the trace of the vein.

A threshold pattern of silver and lead on the Trak claim which trends northwesterly appears to be underlain by shale (often graphitic) and shaly argillite. This unit may have contributed metals for remobilization into fissure veins. A few threshold lead values are present within argillite and limestone on the presumed trace of a mineralized structure.

Creek Side Claim

The grid was extended southerly to check the possible extension of elevated geochemical values which were obtained in earlier surveys. No additional anomalies were located.

DISCUSSION

The Interpretive Geology Map (pocket in back of report) and the Stylized Composite Longitudinal View (page 6) should be examined in conjunction with this synthesis.

Productive veins which have been mined on Payne Ridge occur approximately 150-200 metres apart. Within and near the map area these are the Payne, St. Keverne, Slocan Boy, and Washington. Continuing southeasterly, the Sapphire, Majestic, and Hallmac are also spaced at approximately 200 metres. The target area is 175 metres northwest of the Payne vein. The elevations of each deposit in the area of interest appear to be descending towards the northwest.

Outcrop of high-grade mineralization along the Payne structure was only about 40 metres in length. On the second and third levels the length of ore increased to approximately 150 metres, and persisted downward to as low as the 10th level, a dip length of some 325 metres. Widths varied to a maximum of 12 metres, averaging perhaps 3 metres. It is suggested that the next mineralization to the north should apex somewhat lower than the top of the Payne vein. Competent argillite and limestone beds trend along the ridge top and are wallrocks to each of the deposits. Periodicity of the productive veins/fissures strongly suggests that the next mineralization should be contained within the target area.

A fissure or fissures with silver-lead-zinc mineralization are exposed in the Ocean adits to the southwest of the Smoke et al. claims. Host rocks are fissile shales which did not maintain open spaces to allow filling with metallics. If projected northeasterly along the typical trend of lode structures in the camp, the fissure zone passes close to adits on the Trak claim and through the target area. Flexures in foliation attitudes are noted on opposite sides of this zone in several locations.

Geochemical signatures are weak in the target zone, but a few lead values may mark the location of a subcropping lode.

It is inferred that high-grade silver-lead-zinc is present at shallow depths within this zone.

CONCLUSIONS

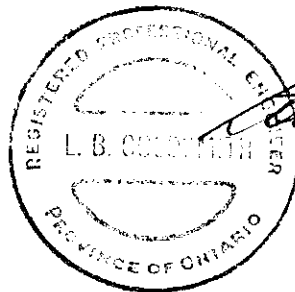
Direct and indirect evidence has led to the conceptualization of a target at shallow depth which can contain important high-grade reserves of silver-lead-zinc.

RECOMMENDATIONS

A preliminary diamond drilling program of approximately four holes totalling 300 metres should be commenced.

COST ESTIMATE

Diamond drilling, 300 m at \$100/m	30,000	
Water truck and driver	3,000	
Dozer	1,000	
Assays	500	
Vehicle, Fuel	2,000	
Room, board	2,000	
Engineering, supervision	5,500	
Report	<u>2,000</u>	
	46,000	
Contingencies at 10%	<u>4,600</u>	
Total	50,600	<u>\$ 50,600</u>



Respectfully submitted,

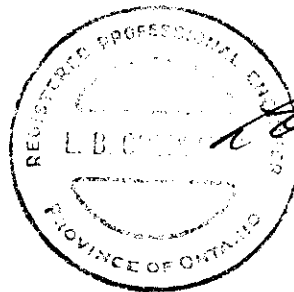
Locke B. Goldsmith
 Locke B. Goldsmith, P.Eng., P. Geo.
 Consulting Geologist



Vancouver, B.C.
 January 29, 1992

ENGINEER'S CERTIFICATE
LOCKE B. GOLDSMITH

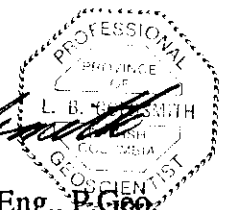
1. I, Locke B. Goldsmith, am a registered Professional Engineer in the Province of Ontario, and a Registered Professional Geologist in the Province of British Columbia and in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree in Geology from 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 a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 34 years.
4. I have authored the report entitled, "Geology and Soil Geochemistry, Smoke, Trak, Creek Side et al. Mineral Claim Group, Slocan Mining Division, Payne Mountain, Sandon, B.C.", dated January 29, 1992. 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 Exploration 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. Geochem sheets in the Appendix could be omitted from a prospectus because all values are plotted on maps.



Respectfully submitted,

A handwritten signature in cursive script that reads "Locke B. Goldsmith".

Locke B. Goldsmith, P.Eng., P. Geo.
Consulting Geologist



Vancouver, B.C.
January 29, 1992

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. October 1985. Report on the Lynn, Alamo, Alamo 2, Alamo 3 mineral claim group, Seaton Creek-Three Forks-Alamo area, Slocan Mining Division, Sandon, B.C. Private report for Minotaur Explorations Ltd.
- 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.
- Verzosa, R.S. 1984. 1984 assessment report, geochemical soil survey on the Merit West mineral claim, Slocan Mining Division. Private report for Aegis Resources Ltd.

COST STATEMENT: 1991-1992 PROGRAM**Wages**

L.B. Goldsmith: Sept. 7, 1/2 10, 11, 12,
1/213, 1/214, 15, 1/425, 1/426, 1/229, Oct. 5, 1/26, 13,
1/418, 1/419, 1/420, 1/827, 1/8 Jan. 7, 1/88, 1/89, 1/824,
1/429, 1/8 Feb. 3, 1/44 — total 111/2 days at \$470.00/day 5,296.50

G. Bennett: 1/2 Sept. 10, 11, 12, 1/213, 1/214, 25
26, 1/227, 1/228, 1/2 Oct. 6—total 7 days at \$233.50/day 1,634.50

Transportation

Two 4x4 vehicles 1,562.05
1562.05 divided by 18.25 days = \$85.59/vehicle/day

Accommodation, Meals

1855.26 divided by 18.25 days = \$101.65/person/day 1,855.26

Dozer

JD450 at \$70/hour, 4 hours 280.00

Analyses

123 samples cost \$788.22 = \$6.41/sample 788.22

Supplies

Topofil, flagging, sample bags 267.85

Report

Typing, drafting, prints, materials 2,612.91

Total 14,297.29

APPENDIX



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCTEX ENGINEERING SERVICES

506 - 540 BARRARD ST.
VANCOUVER, BC
V6C 2K1

A9122019

Comments: CC: L.B. GOLDSMITH

CERTIFICATE

A9122019

ARCTEX ENGINEERING SERVICES

Project: MINO
P.O. #:

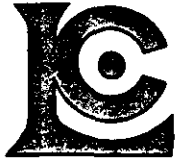
Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-SEP-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201 238	59 59	Dry, sieve to -80 mesh NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
4	59	Pb ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
5	59	Zn ppm: HNO ₃ -aqua regia digest	AAS	1	10000
6	59	Ag ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	0.2	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: GOLDSMITH, MR. L. B.

301 - 1855 BALSAM ST.
VANCOUVER, BC
V6K 3M3

A9122764

Comments:

CERTIFICATE

A9122764

GOLDSMITH, MR. L. B.

Project:
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-OCT-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201 238	64 64	Dry, sieve to -80 mesh NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2	64	Cu ppm: HNO ₃ -aqua regia digest	AAS	1	10000
4	64	Pb ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
5	64	Zn ppm: HNO ₃ -aqua regia digest	AAS	1	10000



Chemex Labs Ltd.

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To: ARCTEX ENGINEERING SERVICES

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V6C 2K1

Project : MINO
Comments: CC: L.B. GOLDSMITH

Page Number : 1
Total Pages : 2
Certificate Date: 23-SEP-91
Invoice No. : 19122019
P.O. Number :

CERTIFICATE OF ANALYSIS

A9122019

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R							
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3+00E 3+00S	201 238	17	300	2.3							
3+00E 3+35S	201 238	38	1300	4.0							
4+00E 2+50S	201 238	13	350	4.0							
4+00E 3+00S	201 238	21	400	1.7							
4+00E 3+50S	201 238	28	330	5.5							
4+00E 4+00S	201 238	145	500	5.3							
5+00E 2+50S	201 238	18	154	1.6							
5+00E 3+00S	201 238	25	150	0.6							
5+00E 3+50S	201 238	23	300	2.2							
5+00E 4+00S	201 238	51	340	8.0							
6+00E 2+50S	201 238	37	144	1.0							
6+00E 3+50S	201 238	500	1400	1.8							
7+00E 2+50S	201 238	255	162	3.3							
7+00E 3+00S	201 238	250	980	1.6							
7+00E 3+50S	201 238	280	360	12.0							
7+00E 4+00S	201 238	34	540	3.1							
14+00E 0+00	201 238	5	142	0.8							
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14+00E 0+50S	201 238	2	350	1.8							
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15+00E 0+00S A	201 238	26	260	1.7							
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15+00E 2+50S B	201 238	31	550	1.0							
15+00E 3+00S A	201 238	15	650	0.4							

CERTIFICATION Hart Bichler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project: MINO
Comments: CC: L.B. GOLDSMITH

Page Number : 2
Total Pages : 2
Certificate Date: 23-SEP-91
Invoice No. : 19122019
P.O. Number :

CERTIFICATE OF ANALYSIS

A9122019

SAMPLE DESCRIPTION	PREP CODE	Pb ppm	Zn ppm	Ag ppm Aqua R								
15+00E 3+00S B	201 238	31	530	0.7								
15+00E 3+50S A	201 238	17	550	0.5								
15+00E 3+50S B	201 238	81	730	1.7								
15+00E 4+00S A	201 238	15	730	1.5								
15+00E 4+00S B	201 238	7	570	0.7								
17+00E 0+00	201 238	11	136	3.8								
17+00E 0+50N	201 238	12	182	2.1								
17+00E 0+50S	201 238	9	320	1.9								
17+00E 1+00S	201 238	10	300	3.7								
17+00E 1+50S	201 238	12	510	1.3								
17+00E 2+00S	201 238	23	370	1.7								
17+00E 2+50S	201 238	23	370	2.5								
18+00E 0+00	201 238	9	230	1.9								
18+00E 0+50N	201 238	8	160	2.0								
18+00E 0+50S	201 238	23	134	0.3								
18+00E 1+00S	201 238	9	300	2.0								
18+00E 1+50S	201 238	10	470	2.0								
18+00E 2+00S	201 238	13	410	1.8								
18+00E 2+50S	201 238	32	430	0.7								

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: GOLDSMITH, MR. L. B.

301 - 1855 BALSAM ST.
 VANCOUVER, BC
 V6K 3M3

Page Number :1
 Total Pages :2
 Certificate Date: 08-OCT-91
 Invoice No. :19122764
 P.O. Number :

Project :
 Comments :

NOTE: THIS IS A CORRECTED COPY FOR AG

CERTIFICATE OF ANALYSIS	A9122764
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SAMPLE	PREP CODE	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
4+50E 0+00S	201 238	36	40	220	0.8					
4+50E 0+25S	201 238	39	32	112	0.3					
4+50E 0+50S	201 238	14	20	60	0.4					
4+50E 0+75S	201 238	48	16	162	0.8					
4+50E 1+00S	201 238	36	17	120	0.9					
4+50E 1+25S	201 238	8	6	32	0.5					
4+50E 1+50S	201 238	16	10	57	0.6					
4+50E 1+75S	201 238	25	12	140	2.4					
4+50E 2+00S	201 238	9	13	55	0.7					
4+50E 2+25S	201 238	27	8	172	0.6					
5+00E 0+00S	201 238	20	18	84	0.3					
5+00E 0+25S	201 238	45	15	139	0.3					
5+00E 0+50S	201 238	16	14	69	0.3					
5+00E 0+75S	201 238	49	8	93	0.4					
5+00E 1+00S	201 238	23	14	80	0.6					
5+00E 1+25S	201 238	11	6	44	0.4					
5+00E 1+50S	201 238	6	10	32	0.5					
5+00E 1+75S	201 238	51	14	112	0.3					
5+00E 2+00S	201 238	17	21	92	1.6					
5+00E 2+25S	201 238	65	16	175	0.7					
5+50E 0+25N	201 238	13	24	100	0.3					
5+50E 0+50N	201 238	15	26	69	0.5					
5+50E 0+00S	201 238	12	19	95	0.9					
5+50E 0+25S	201 238	17	19	96	0.9					
5+50E 0+50S	201 238	14	15	80	0.7					
5+50E 0+75S	201 238	42	13	105	0.5					
5+50E 1+00S	201 238	27	12	110	0.4					
5+50E 1+25S	201 238	31	8	132	1.0					
5+50E 1+50S	201 238	14	12	54	1.3					
5+50E 1+75S	201 238	10	18	42	1.1					
5+50E 2+00S	201 238	11	24	62	0.9					
6+00E 0+25N	201 238	16	22	77	0.3					
6+00E 0+50N	201 238	22	30	108	0.2					
6+00E 0+00S	201 238	35	50	103	0.3					
6+00E 0+25S	201 238	18	24	75	0.9					
6+00E 0+50S	201 238	18	42	100	0.4					
6+00E 0+75S	201 238	35	32	140	0.3					
6+00E 1+00S	201 238	9	12	52	0.4					
6+00E 1+25S	201 238	12	20	120	0.3					
6+00E 1+50S	201 238	17	16	60	0.9					

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: GOLDSMITH, MR. L. B.

301 - 1855 BALSAM ST.
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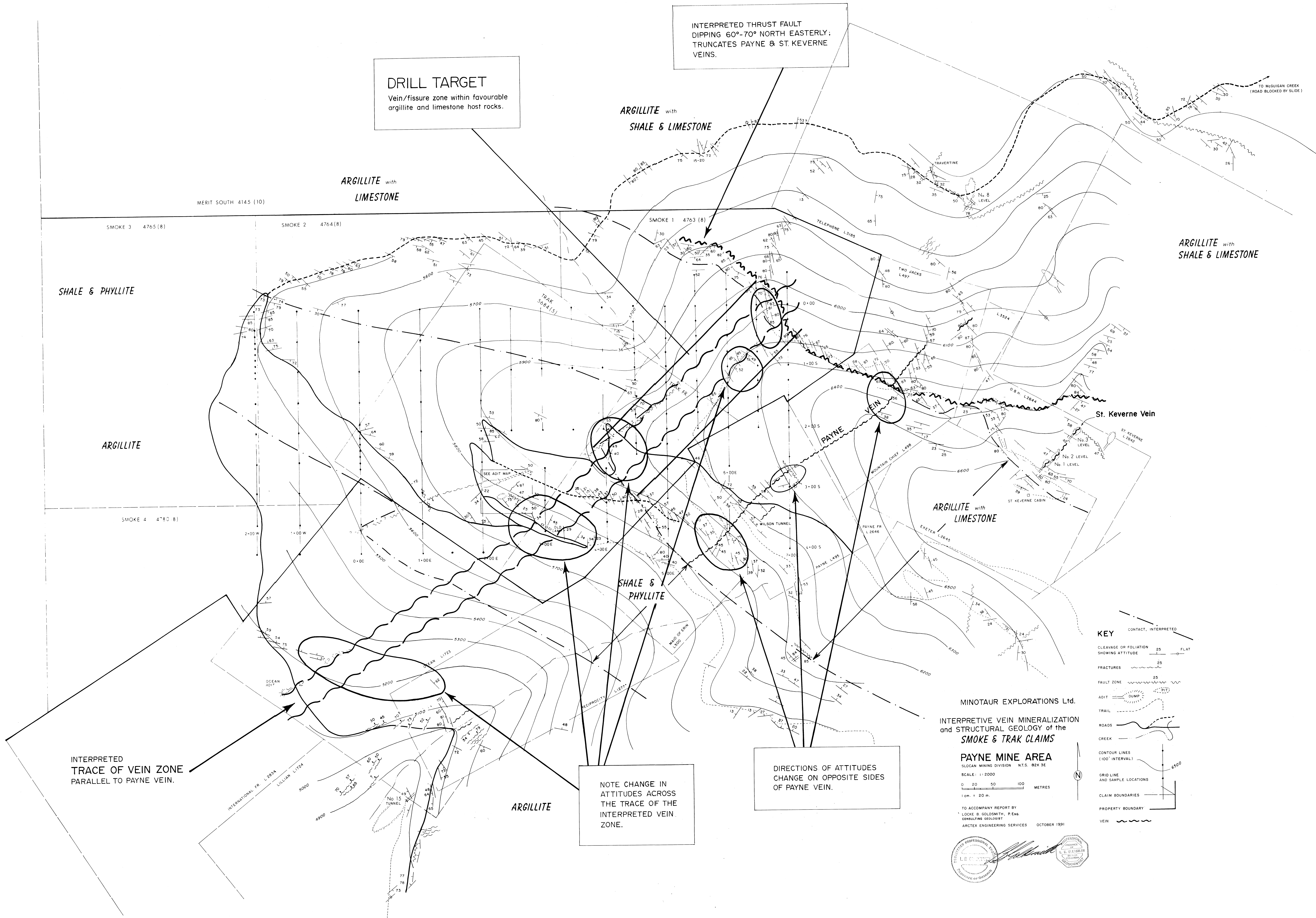
NOTE: THIS IS A CORRECTED COPY FOR AG

CERTIFICATE OF ANALYSIS

A9122764

SAMPLE	PREP CODE	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R						
6+00E 1+75S	201 238	14	12	96	1.2						
6+00E 2+00S	201 238	28	14	144	0.6						
6+50E 0+25N	201 238	46	17	122	0.6						
6+50E 0+50N	201 238	21	17	80	0.5						
6+50E 0+00S	201 238	38	7	75	0.3						
6+50E 0+25S	201 238	25	16	86	0.5						
6+50E 0+50S	201 238	30	35	96	0.6						
6+50E 0+75S	201 238	11	16	75	0.4						
6+50E 1+00S	201 238	14	9	40	0.7						
6+50E 1+25S	201 238	7	12	33	0.2						
6+50E 1+50S	201 238	8	13	35	0.3						
6+50E 1+75S	201 238	10	26	58	0.4						
6+50E 2+00S	201 238	19	26	100	0.4						
7+00E 0+25N	201 238	14	20	82	0.3						
7+00E 0+50N	201 238	25	20	87	0.6						
7+00E 0+00S	201 238	25	22	140	0.7						
7+00E 0+25S	201 238	17	16	126	0.3						
7+00E 0+50S	201 238	17	16	100	0.5						
7+00E 0+75S	201 238	44	16	148	0.3						
7+00E 1+00S	201 238	13	12	78	0.5						
7+00E 1+25S	201 238	12	7	50	0.2						
7+00E 1+50S	201 238	24	19	83	0.6						
7+00E 1+75S	201 238	29	18	98	0.5						
7+00E 2+00S	201 238	13	30	69	0.7						

CERTIFICATION: Hart Bickler



DRILL TARGET
Vein/fissure zone within favourable argillite and limestone host rocks.

INTERPRETED THRUST FAULT
DIPPING 60°-70° NORTH EASTERLY,
TRUNCATES PAYNE & ST KEVERNE
VEINS.

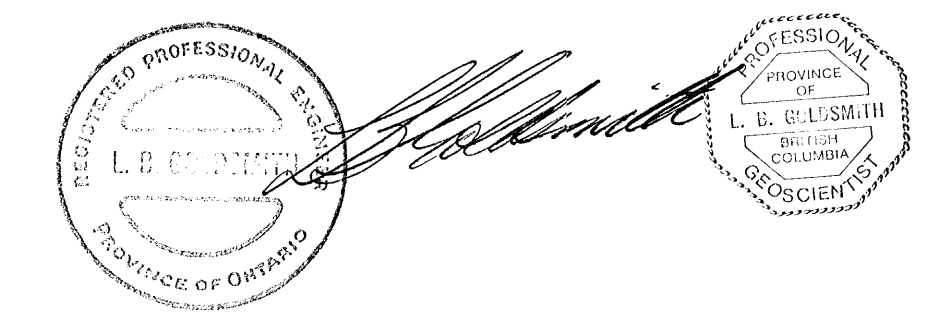
INTERPRETED
TRACE OF VEIN ZONE
PARALLEL TO PAYNE VEIN.

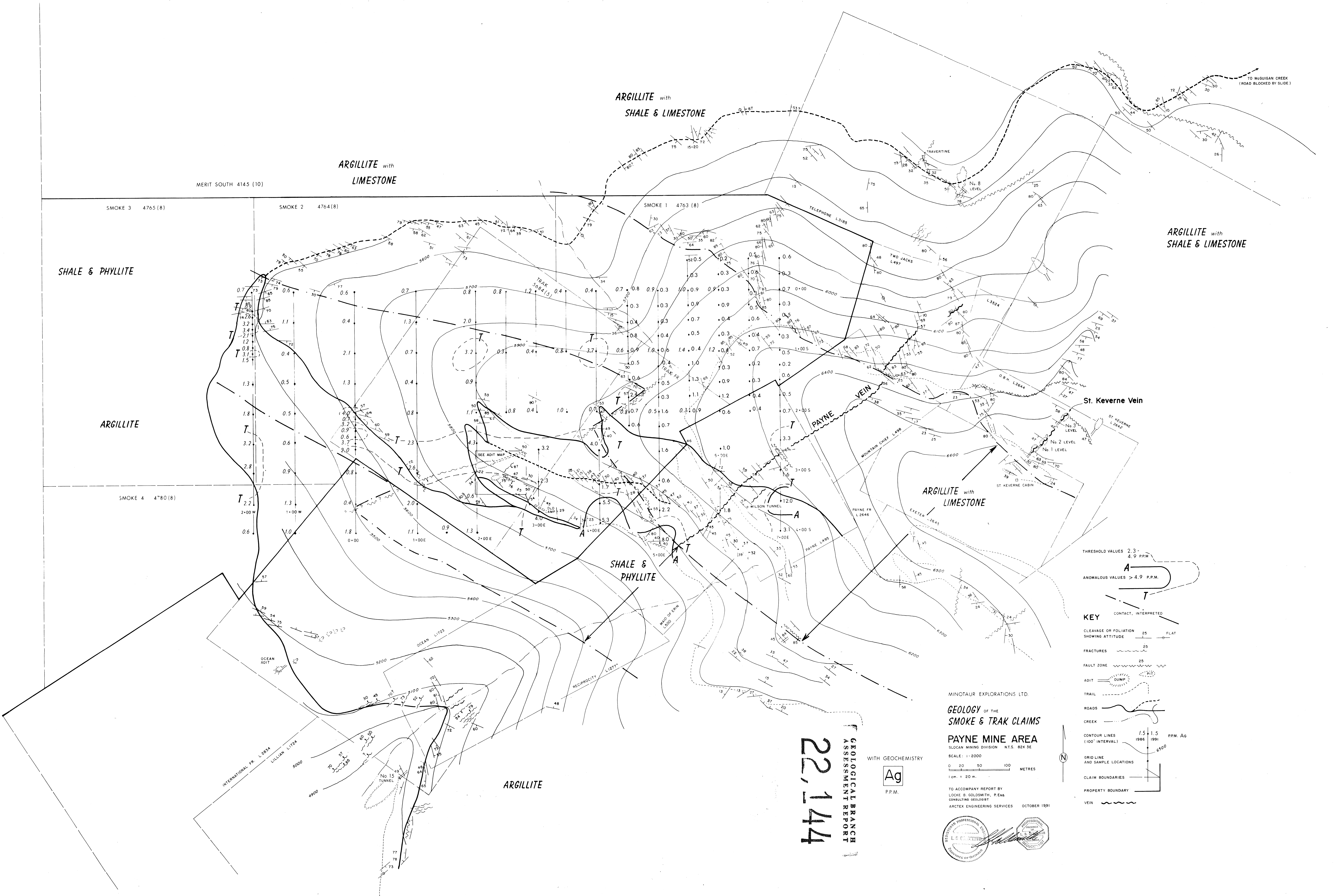
NOTE CHANGE IN
ATTITUDES ACROSS
THE TRACE OF THE
INTERPRETED VEIN
ZONE.

DIRECTIONS OF ATTITUDES
CHANGE ON OPPOSITE SIDES
OF PAYNE VEIN.

- KEY**
- CONTACT, INTERPRETED
 - CLEAVAGE OR FOLIATION SHOWING ATTITUDE
 - FRACTURES
 - FAULT ZONE
 - ADIT
 - TRAIL
 - ROADS
 - CREEK
 - CONTOUR LINES (100' INTERVAL)
 - GRID LINE AND SAMPLE LOCATIONS
 - CLAIM BOUNDARIES
 - PROPERTY BOUNDARY
 - VEIN

MINOTAUR EXPLORATIONS Ltd.
INTERPRETIVE VEIN MINERALIZATION
and STRUCTURAL GEOLOGY of the
SMOKE & TRAK CLAIMS
PAYNE MINE AREA
SLOAN MINING DIVISION N.T.S. 82K 3E
SCALE: 1:2000
0 20 40 60 80 100 METRES
1 CM = 20 M.
TO ACCOMPANY REPORT BY
LOCKE & GOLDSMITH, P. ENG.
CONSULTING GEOLOGIST
ARCTEX ENGINEERING SERVICES OCTOBER 1981





MERIT SOUTH 4145 (10)

SMOKE 3 4765 (8)

SMOKE 2 4764 (8)

SMOKE 1 4763 (8)

SMOKE 4 4780 (8)

MINOTAUR EXPLORATIONS LTD.
GEOLOGY OF THE
SMOKE & TRAK CLAIMS

PAYNE MINE AREA
SLOCAN MINING DIVISION N.T.S. 82K 3E

SCALE: 1:2000
0 50 100 METRES
1 cm = 20 m.

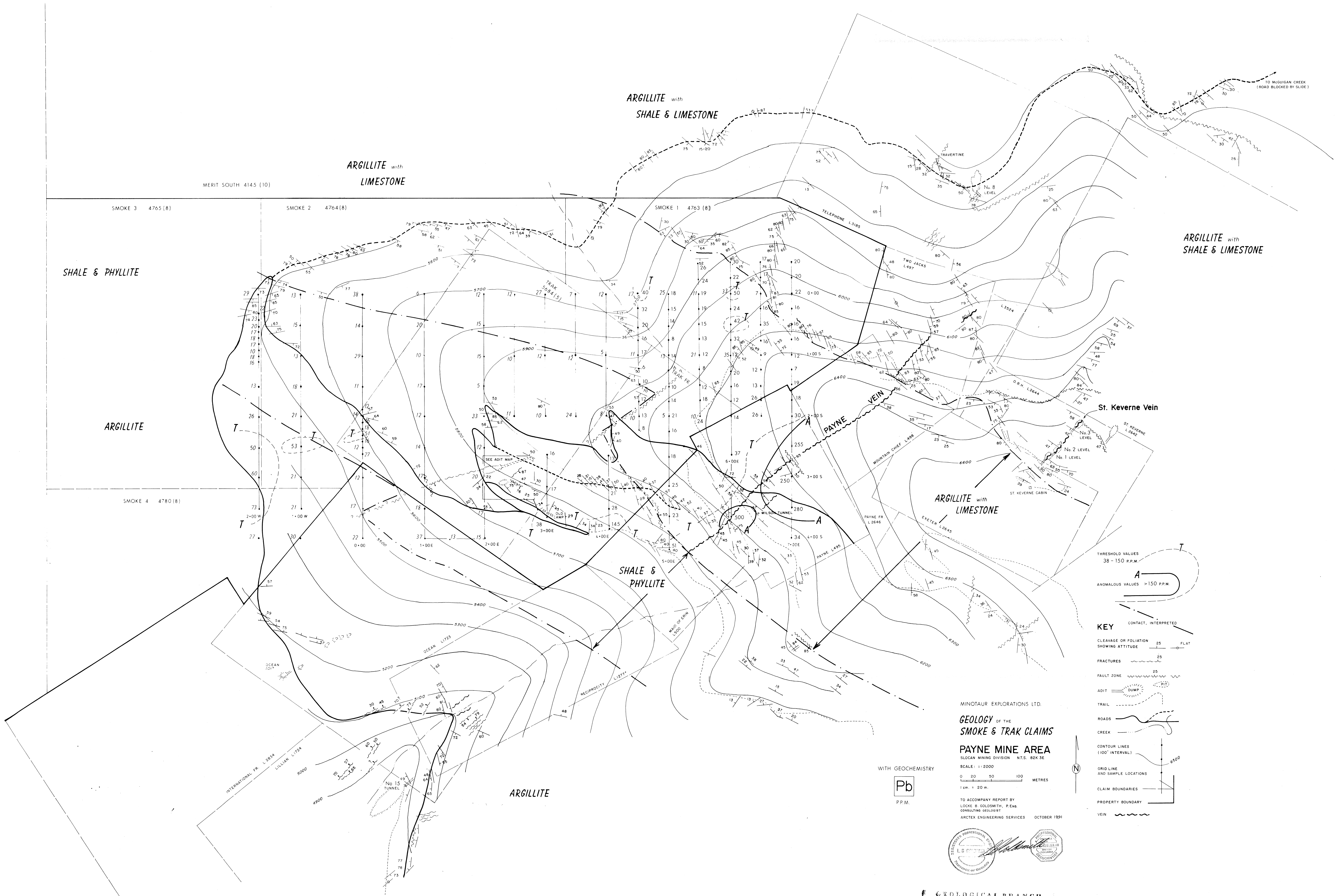
TO ACCOMPANY REPORT BY
LOCKE B. GOLDSMITH, P. ENG.
CONSULTING GEOLOGIST
ARCTEX ENGINEERING SERVICES OCTOBER 1991

WITH GEOCHEMISTRY
Ag
P.P.M.



- THRESHOLD VALUES 2.3 - 4.9 P.P.M.
ANOMALOUS VALUES > 4.9 P.P.M.
- KEY**
- CONTACT, INTERPRETED
 - CLEAVAGE OR FOLIATION SHOWING ATTITUDE
 - FRACTURES
 - FAULT ZONE
 - ADIT
 - TRAIL
 - ROADS
 - CREEK
 - CONTOUR LINES (100' INTERVAL)
 - GRID LINE AND SAMPLE LOCATIONS
 - CLAIM BOUNDARIES
 - PROPERTY BOUNDARY
 - VEIN

GEOLOGICAL BRANCH
ASSESSMENT REPORT
22,144



MERIT SOUTH 4145 (10)

SMOKE 3 4765 (8)

SMOKE 2 4764 (8)

SMOKE 1 4763 (8)

SMOKE 4 4780 (8)

MINOTOUR EXPLORATIONS LTD.
**GEOLOGY OF THE
 SMOKE & TRAK CLAIMS**
PAYNE MINE AREA
 SLOCAN MINING DIVISION N.T.S. 82K 3E
 SCALE: 1:2000
 0 20 50 100 METRES
 1 cm = 20 m.
 TO ACCOMPANY REPORT BY
 LOCKE B. GOLDSMITH, P. ENG.
 CONSULTING GEOLOGIST
 ARCTEX ENGINEERING SERVICES OCTOBER 1991

WITH GEOCHEMISTRY
Pb
 P.P.M.

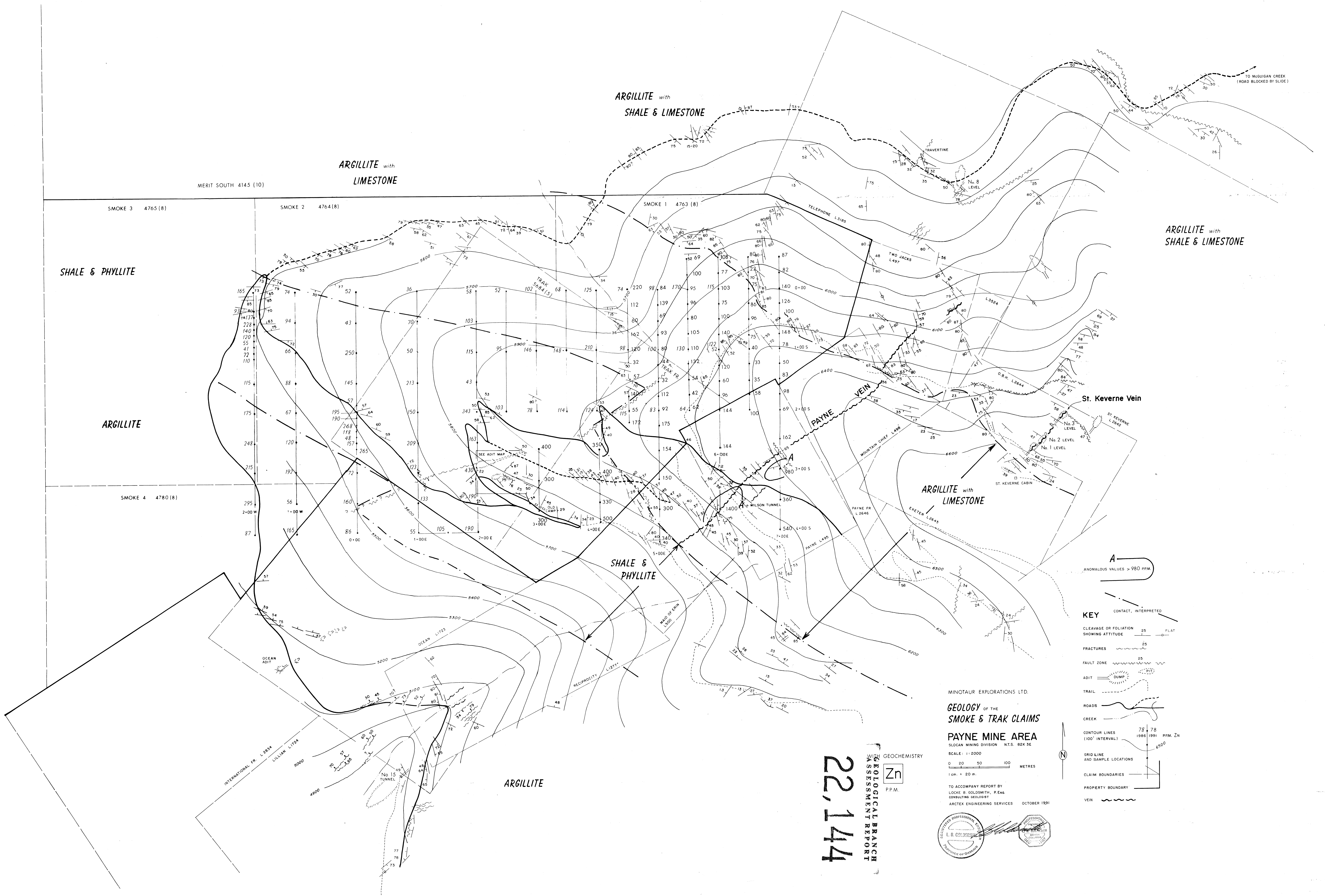
THRESHOLD VALUES
 38 - 150 P.P.M.
 ANOMALOUS VALUES > 150 P.P.M.

- KEY**
- CONTACT, INTERPRETED
 - CLEANSE OR FOLIATION SHOWING ATTITUDE
 - FRACTURES
 - FAULT ZONE
 - ADIT
 - TRAIL
 - ROADS
 - CREEK
 - CONTOUR LINES (100' INTERVAL)
 - GRID LINE AND SAMPLE LOCATIONS
 - CLAIM BOUNDARIES
 - PROPERTY BOUNDARY
 - VEIN



GEOLOGICAL BRANCH
 ASSESSMENT REPORT

22,144



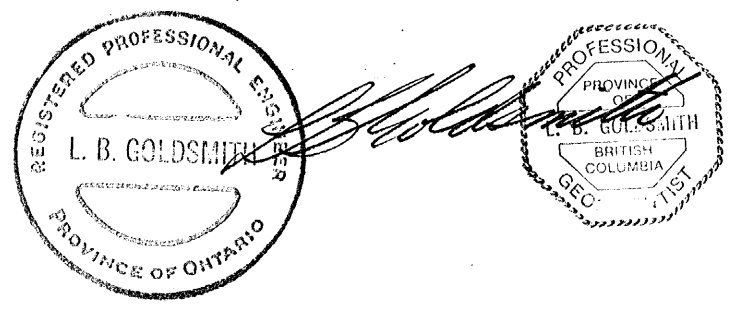
MINOTAUR EXPLORATIONS LTD.
**GEOLOGY OF THE
 SMOKE & TRAK CLAIMS**

PAYNE MINE AREA
 SLOAN MINING DIVISION N.T.S. 82X 3E
 SCALE: 1:2000
 0 20 50 100 METRES
 1 cm = 20 m

TO ACCOMPANY REPORT BY
 LOCKE B. GOLDSMITH, P.Eng.
 CONSULTING GEOLOGIST
 ANCTEX ENGINEERING SERVICES OCTOBER 1991

GEOCHEMISTRY
Zn
 P.P.M.

22,144
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT



KEY

- CONTACT, INTERPRETED
- CLEAVAGE OR FOLIATION SHOWING ATTITUDE
- FRACTURES
- FAULT ZONE
- ADIT
- TRAIL
- ROADS
- CREEK
- CONTOUR LINES (100' INTERVAL)
- GRID LINE AND SAMPLE LOCATIONS
- CLAIM BOUNDARIES
- PROPERTY BOUNDARY
- VEIN

ANOMALOUS VALUES > 980 PPM

78 78
1986 1991 PPM ZN

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,144



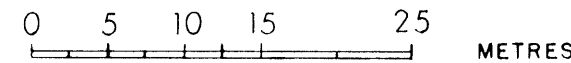
MINOTAUR EXPLORATIONS LTD.

**GEOLOGY OF ADITS ON
SMOKE & TRAC CLAIMS**

PAYNE MINE AREA

SLOCAN MINING DIVISION N.T.S. 82K 3E

SCALE: 1:2000

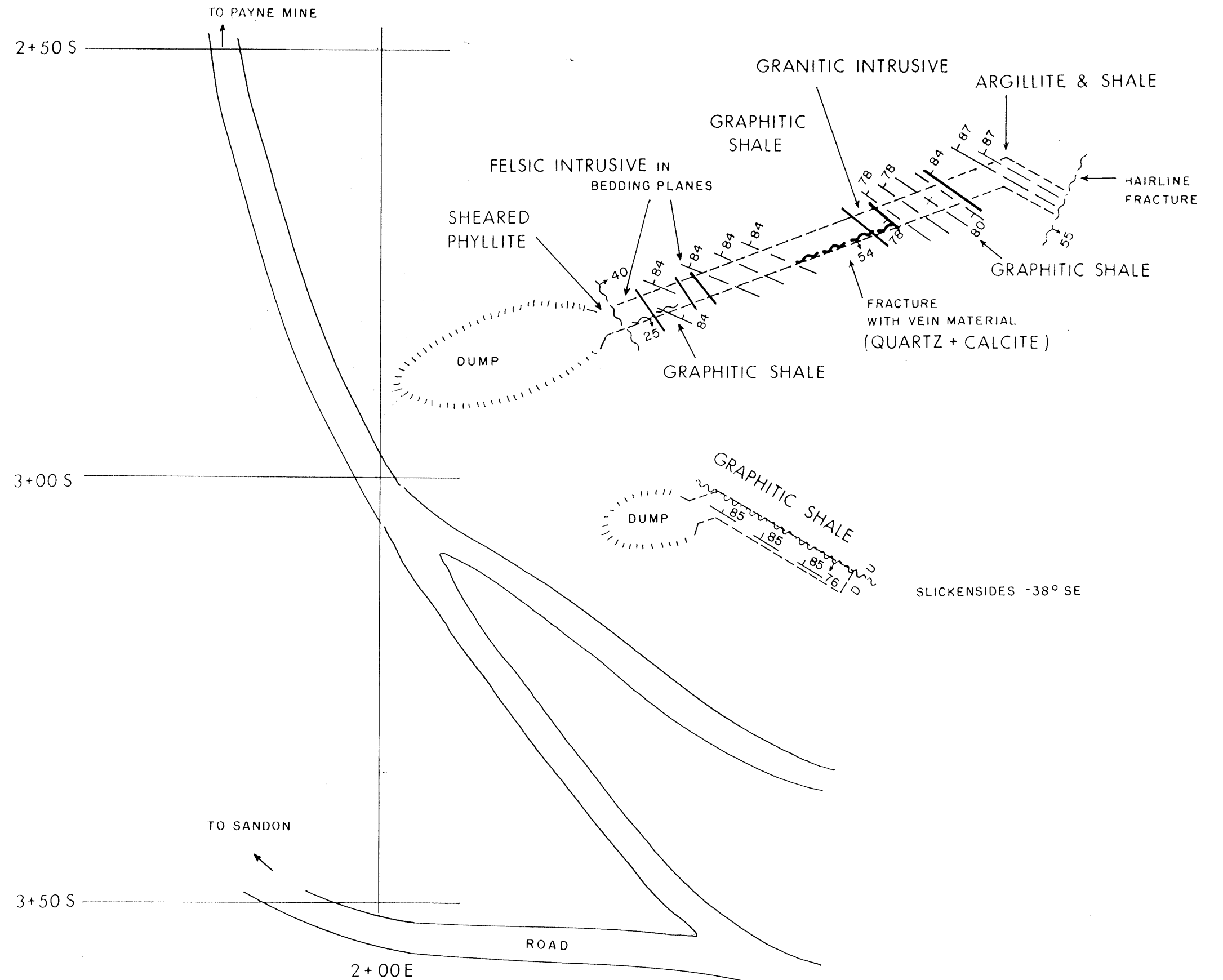
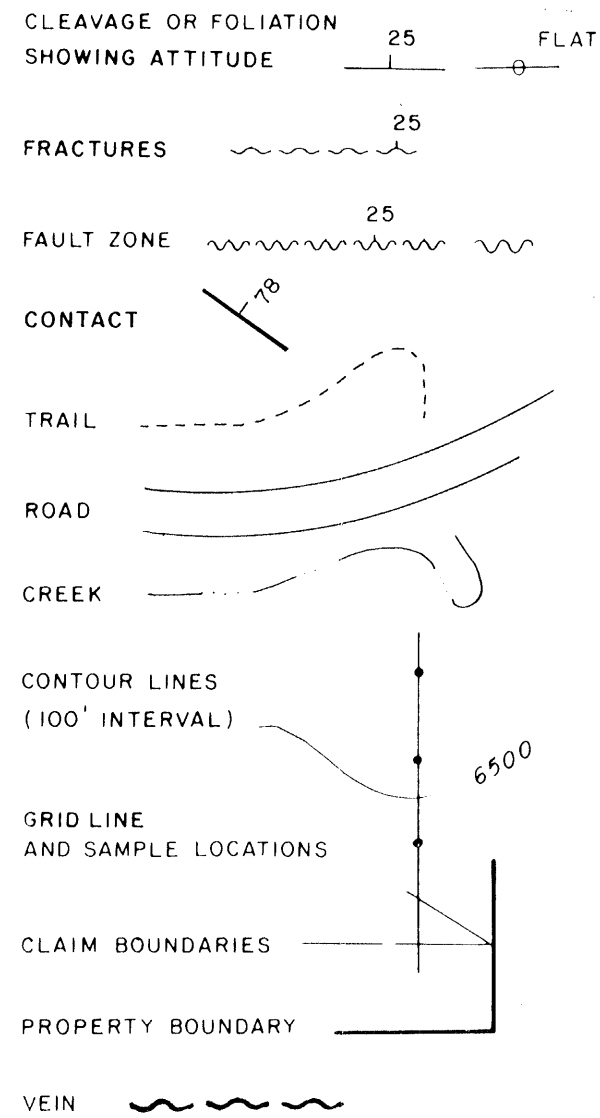


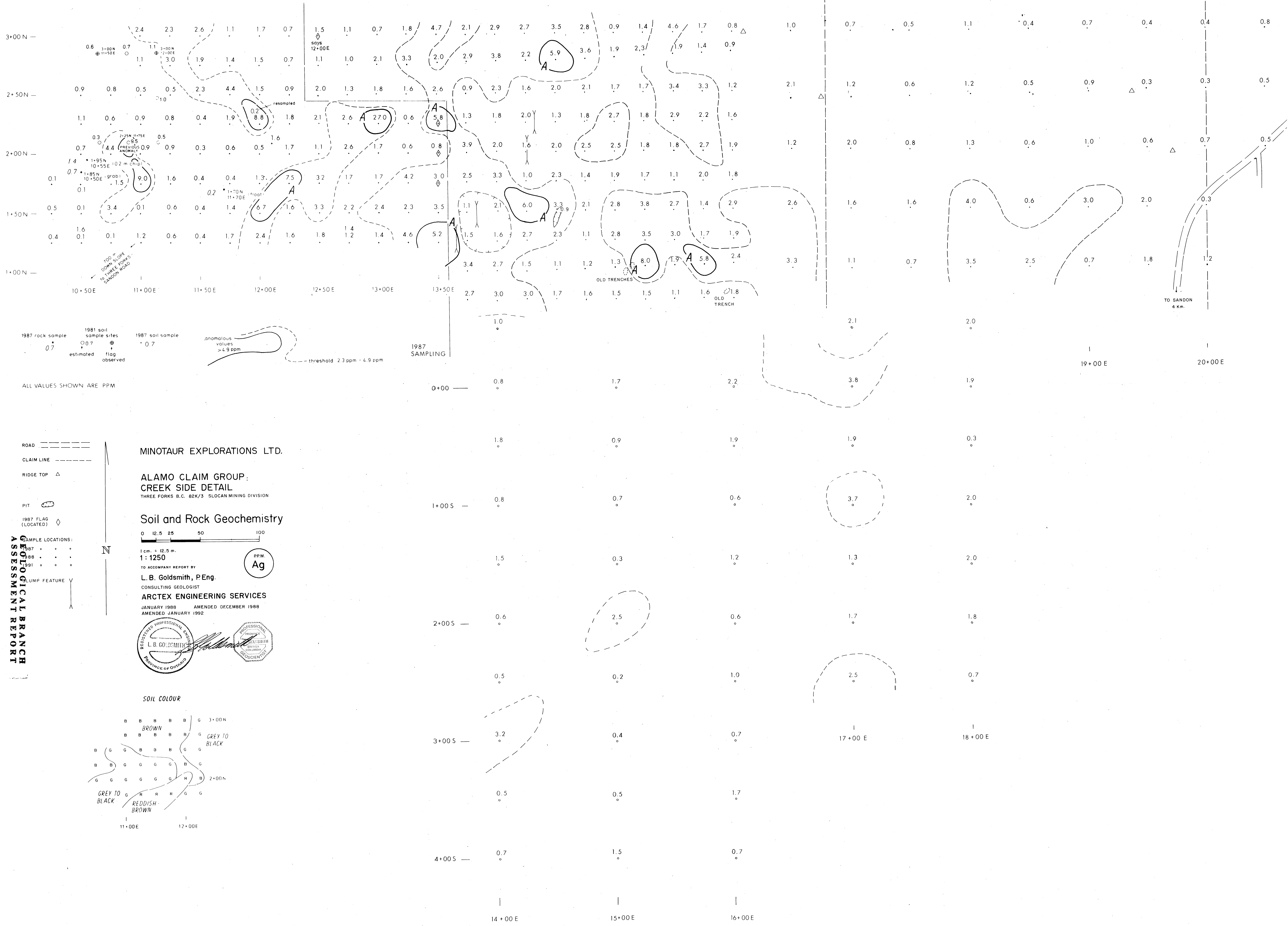
1 cm. = 5 m. 1:500

TO ACCOMPANY REPORT BY
LOCKE B. GOLDSMITH, P.ENG.
CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES OCTOBER 1991

KEY





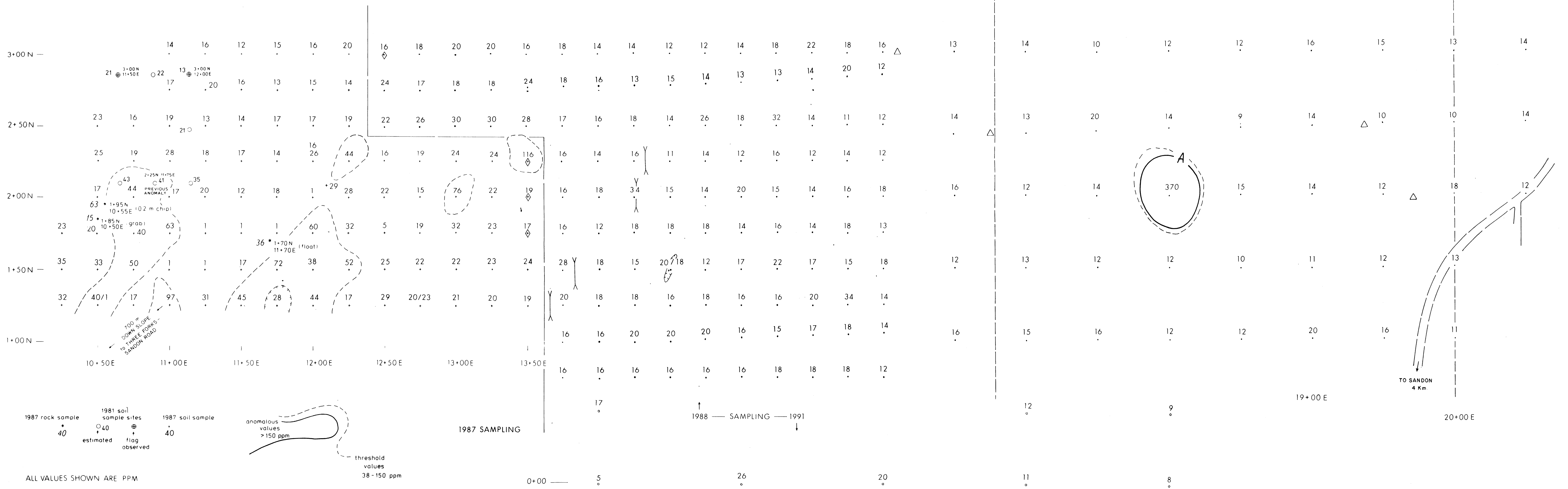
22,144

GEOLOGICAL BRANCH
ASSESSMENT REPORT

1748 (2)
CREEK SIDE CLAIM

4765 (8)
SMOKE 3

4764 (8)
SMOKE 2



ROAD ————
CLAIM LINE - - - -
RIDGE TOP Δ
PIT ○
1987 FLAG (LOCATED) ◇
SAMPLE LOCATIONS:
1987 + + +
1988 . . .
1991 * * *
SLUMP FEATURE ↘

MINOTAUR EXPLORATIONS LTD.
ALAMO CLAIM GROUP,
CREEK SIDE DETAIL
THREE FORKS B.C. 82K/3 SLOCAN MINING DIVISION

Soil and Rock Geochemistry

0 12.5 25 50 100
1 cm. = 12.5 m.
1: 1250

TO ACCOMPANY REPORT BY
L. B. Goldsmith, P.Eng.
CONSULTING GEOLOGIST
ARCTEX ENGINEERING SERVICES
JANUARY 1988 AMENDED DECEMBER 1988
AMENDED JANUARY 1992

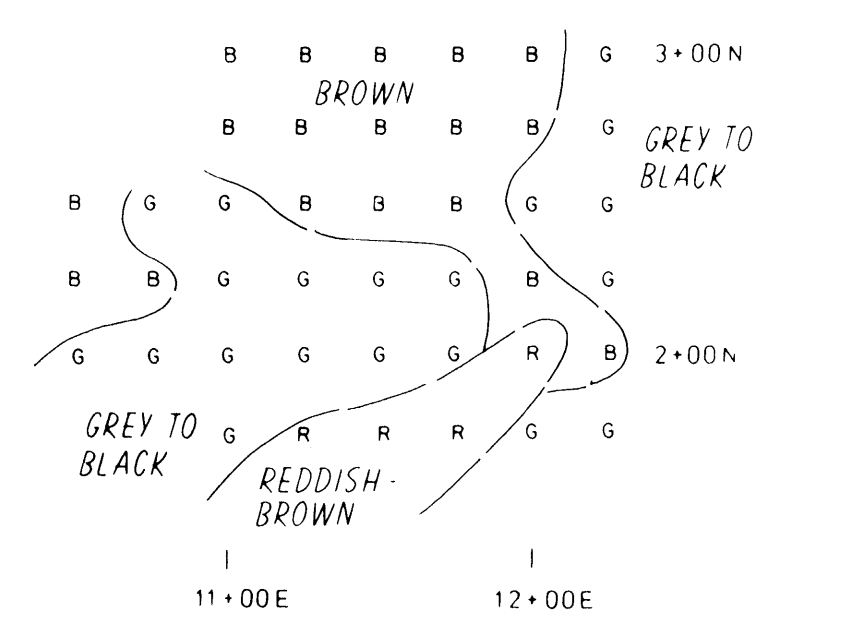
PPM
Pb

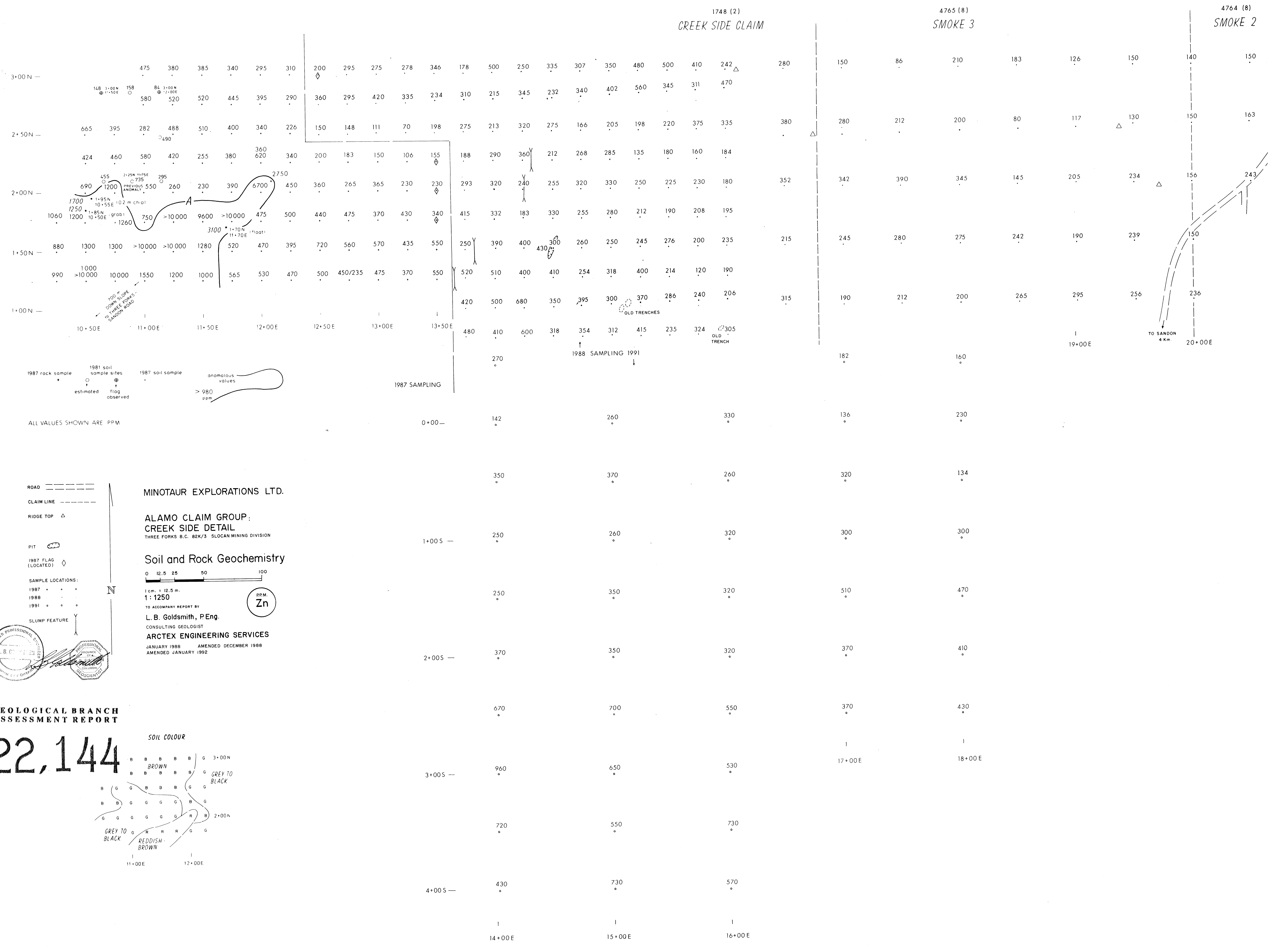
PROFESSIONAL ENGINEER
L. B. GOLDSMITH
PROVINCE OF ONTARIO

PROFESSIONAL GEOLOGIST
L. B. GOLDSMITH
COLUMBIA
PROVINCE OF ONTARIO

22,144

SOIL COLOUR





1748 (2) CREEK SIDE CLAIM
 4765 (8) SMOKE 3
 4764 (8) SMOKE 2

3+00 N	475	380	385	340	295	310	200	295	275	278	346	178	500	250	335	307	350	480	500	410	242	280	150	86	210	183	126	150	140	150					
2+50 N	665	395	282	488	510	400	340	226	150	148	111	70	198	275	213	320	275	166	205	198	220	375	335	380	280	212	200	80	117	130	150	163			
2+00 N	424	460	580	420	255	380	360	340	200	183	150	106	155	188	290	360	212	268	285	135	180	160	184	352	342	390	345	145	205	234	156	243			
1+50 N	880	1300	1300	>10000	>10000	1280	9600	>10000	440	475	370	430	340	415	332	183	330	255	280	212	190	208	195	215	245	280	275	242	190	239	150	235			
1+00 N	990	>10000	10000	1550	1200	1000	565	530	470	500	450/235	475	370	550	520	510	400	410	254	318	400	214	120	190	420	500	680	350	395	300	370	286	240	206	
0+00									142					260										136		230									
1+00 S									350					370										320		134									
2+00 S									250					260										300		300									
3+00 S									250					350										510		470									
4+00 S									370					350										370		410									
5+00 S									670					700										370		430									
6+00 S									960					650										17+00 E		18+00 E									
7+00 S									720					550												730									
8+00 S									430					730												570									
9+00 S																																			
10+00 S																																			

MINOTAUR EXPLORATIONS LTD.
 ALAMO CLAIM GROUP:
 CREEK SIDE DETAIL
 THREE FORKS B.C. 82K/3 SLOCAN MINING DIVISION

Soil and Rock Geochemistry

0 12.5 25 50 100
 1 cm. = 12.5 m.
 1:1250

TO ACCOMPANY REPORT BY
 L. B. Goldsmith, P.Eng.
 CONSULTING GEOLOGIST
 ARCTEX ENGINEERING SERVICES
 JANUARY 1988 AMENDED DECEMBER 1988
 AMENDED JANUARY 1992

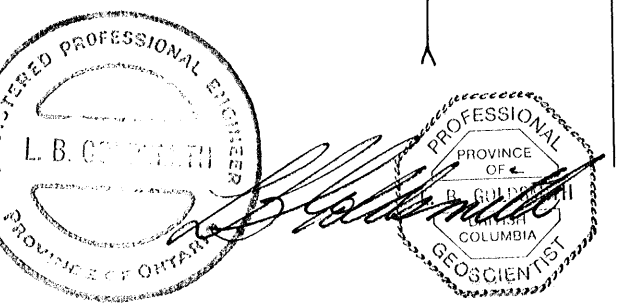
PPM
 Zn

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

22,144

SOIL COLOUR

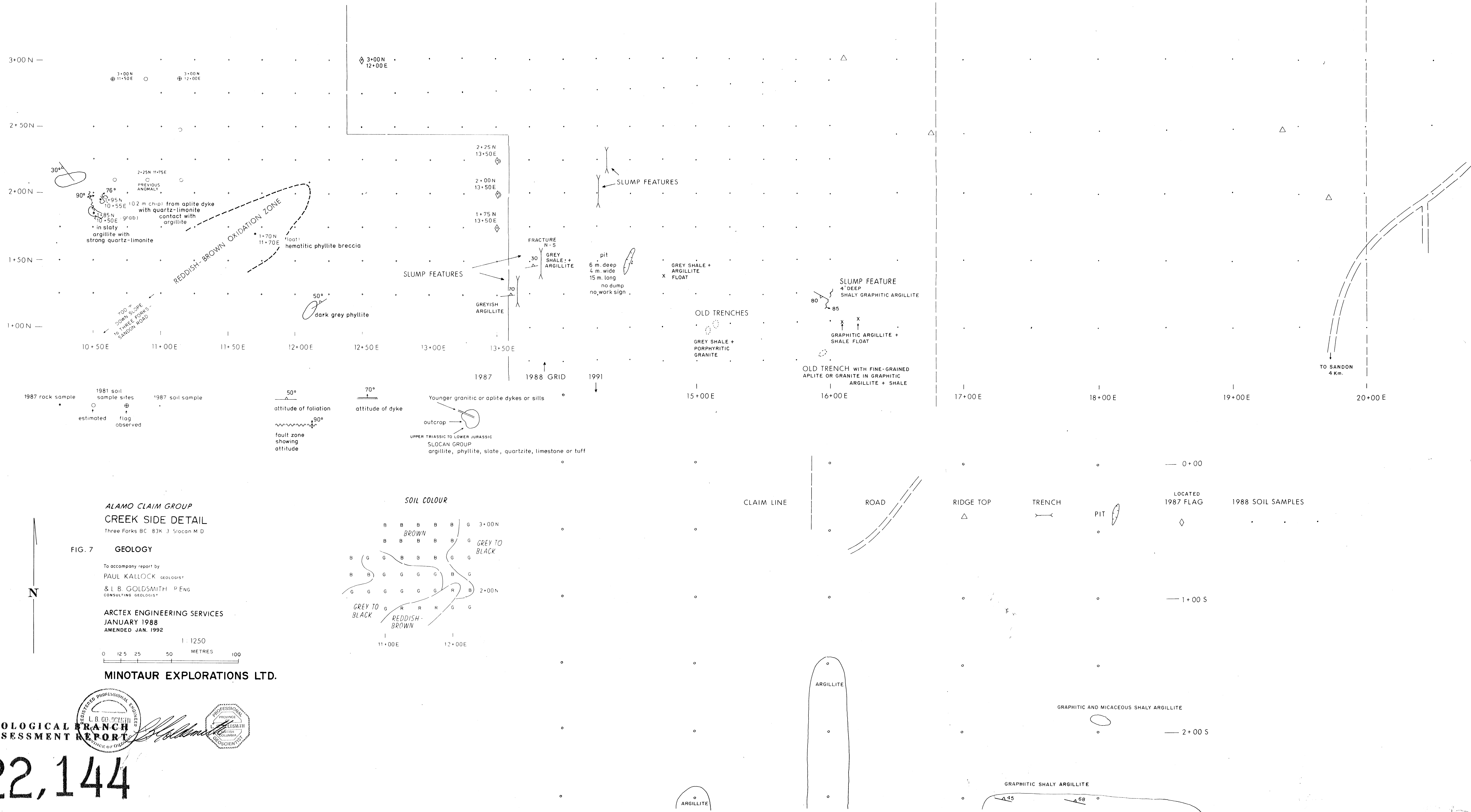
BROWN
 GREY TO BLACK
 GREY TO BLACK
 REDDISH-BROWN



1748 (2)
CREEK SIDE CLAIM

4765 (8)
SMOKE 3

4764 (8)
SMOKE 2



ALAMO CLAIM GROUP
CREEK SIDE DETAIL
Three Forks BC 83K 3 Slocan M.D.

FIG. 7 GEOLOGY

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

ARCTEX ENGINEERING SERVICES
JANUARY 1988
AMENDED JAN. 1992

1:1250
0 12.5 25 50 100
METRES

MINOTAUR EXPLORATIONS LTD.

GEOLOGICAL ASSESSMENT REPORT

22,144

