GEOPHYSICAL / GEOCHEMICAL

REPORT

SIMBA 1-40 CLAIMS

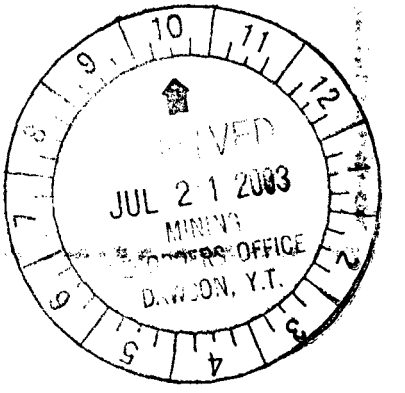
GRANT # YC21149-YC21188

NTS # 116 C \ 09

094418

LAT: 64' 03' N

LONG: 140' 25' W



DAWSON MINING DISTRICT

AUTHOR OF REPORT SHAWN RYAN

WORK PERFORMED JUNE 21 - SEPTEMBER 30, 2002

DATE OF REPORT JULY 2[illegible], 2003

Costs associated with this report have been approved in the amount of $ 20,000 for assessment credit under Certificate of Work No. 2000454

K. Lewis

Mining Recorder
Dawson City Mining District

TABLE OF CONTENT

SUMMARY

The Simba Property covers a large iron formation that has anomalous gold (7.7 grams) an anomalous copper (1.6 %) values coming from the surrounding quartz veins and mafic volcanics respectively.

In late June three of us conducted a regional silt and soil survey, for two days with helicopter support we collected 77 silt and soil sample. The assay result showed a large area six kilometers long of anomalous (200 ppm +) copper silt anomaly situated on the south side of Simba ridge area.
The silt assays also gave spot copper, nickel, cobalt and gold anomalies.

Three of us returned in early September and placed two grids across the property and three small satellite grids south and west of the property.

Simba Grid 1 located on the northwest part of the claims covered 20. KL of grid lines.

The second Grid Simba Grid 2 was located on the western boundary of the claim block; it covered 16 KL of grid work.

A magnetic survey was conducted on both grids. A soil survey was conducted on three small grid area outside of the Property and soil where taken off the two main grids on the Property. There were 344 soils taken in total and 76-rock sample off the entire Property area. Soil value confirmed a large area that is anomalous in copper, nickel, cobalt, zinc and spot gold values.

The exciting part of project came when visible gold was found in a large quartz structure that was parallelling the iron formation for seven kilometers. The quartz veins carried bornite? Tetrahidrite?, chlorite, calcite and visible gold. The visible gold was located in three large pieces of quartz float found across 2.5 kilometers. High silt value (450 ppb Au) was found below the same quartz vein 1 kilometer east of the last visible gold float area. This give the quartz gold vein a potential strike distance of 3.5 kilometers but I feel it probably carries for the whole seven kilometers.

1.0 INTRODUCTION

This report describes a magnetic survey, and a soil survey conducted on the Simba Property in the Dawson Mining District, Yukon Territory. The Simba Property host a large Algoma style Iron Formation that similar to the Bathurst Mining Camp, New Brunswick. G.A.Gross noted the Simba Iron Formation in 1968; GSC geologist as looking very similar to the Iron Formation out east and that it should be serious look at for base metal. The purpose of the surveys was to define the Iron Formation and sample for gold and base metals. A three-man team was on the Property area twice, once for two days in mid June and return early September and stayed for the rest of the month.

2.0 LOCATION AND ACCESS

The Simba Property is centered at 64'03 N, 140'25 W in the central Yukon Territory, close to Alaska border. The Property is 55 kilometer north west of Dawson City. The only access is via helicopter from Dawson City. There also the Clinton Creek Road, a summer road that gets to within 9 kilometer of the property. It's a good spot to ferry in supplies.

3.0 PROPERTY DESCRIPTION

The Simba Property consists of 70 full claims staked under the Yukon Quartz Mining Act in the Dawson Mining District. This report is for Simba 1-40 claims. The claims are located on NTS # 116 C / 09.

4.0 PHYSIOGRAPHY

The Simba Property is located in the Klondike Ecoregion. It straddles the southern Olgilvie mountain range to the north and the Tintina Valley to the south. Elevation on the Property range from 2500 feet to 4500 feet. The property vegetation is covered with spruce an aspen on the southern slopes, black spruce on the northern slope up to an elevation of 3700-4000 feet. The Property is covered with alpine tundra shrubs above 4000 feet.

5.0 REGIONAL AND PROPERTY GEOLOGY

5.1 REGIONAL GEOLOGY

According to the GSC geology of Geology of Dawson Map Area (northeast of Tintina Trench) by R.I. Thompson, C. F. Roots, and P.S. Mustard, Open file 2849. The Simba claims are located in the Upper Proterozoic and Lower Cambian Hyland Group. Which consist of maroon, green and grey argillite; light grey chert; siltstone; sandstone; gritty sandstone; trace of fossil in upper part. Thompson also note white-weathering, grey limestone and the large iron formation moving across the property.

5.2 PROPERTY GEOLOGY

The following geological description is from E.L. Mann a geologist who spent the entire summer mapping the property in 1958. The description is from assessment report # 017510. Mann describe from south to north five different rock units. The first is a potential volcanic unit of epidote-chlorite unit. The second units is a phyllite that paralleling the epidote unit. The next unit is chlorite schist that found paralleling the iron formation. The forth unit is the iron formation. The fifth unit is the limestone unit found on the northern part of the property. They're also intrusive coming out in various locations around the property. The intrusive is described as granodioritic to diorite.

6.0 WORK PROGRAM / METHODS

6.1 REGIONAL SILT SURVEY

A regional silt survey was undertaken on June 21 and June 22, 2002. A three-man crew consisting of Scott Fleming, Mike Glynn and Shawn Ryan collected silt from various drainage. The program was helicopter supported to help in moving to various drainage's. Sample where collected from low energy site where possible. When good silt sample could not be found, moss mat found in the creek and on the edge where collected and the silt was collect off the bottom of the moss mats. About one pound of silt where collected at each site and placed in brown paper soil bags. All sample where marked with black permanent marker as to location with collector's idea, date, and sample number. An orange flagging tape was place above the sample site with the same identification as the written on the sample.

The area covered is about 14 kilometer by 5 kilometer centered on the iron formation. There were a total of 10 drainage's with 38 individual tributaries sample for a total 77 sample collected during the two-day program.

6.2 GRID WORK

Grid work consisted of setting up two individual grids, which are called Simba Grid I, and Simba Grid II. Grid I was established on the northwest corner of the Property. A base line was established with Garmin Etrex GPS. The base line azimuth is 294 / 114 degrees and line azimuth is 204 / 24 degrees with a magnetic declination set at 26 degrees east. Line where spaced every 100 meters and station where spaced at 25 meters. The grid was centered on the iron formation with lines going from 1000 east to 1100 west, and up to 400 meter north and 1100 meter south. Station where flagged with orange flagging tape and marked with black permanent marker as to the line and station location numbers. A crew of two-worked setting up the grid. The GPS worked great to put lines in as the compass became useless around the iron formation. In total there was 26 kilometers of grid lines put in which include 6.35 kilometers of grid extension work and 2 kilometers of base line. A total of 960 station location where established on this grid.

Grid II was established along Shell Creek. The base line follow the creek drainage and lines where established every 100 meters in some section and every 200 meters in other section. Station spacing was placed at 25-meter intervals. The base line went from line 000 to 2000 north. Station where flagged with orange flagging tape and marked with permanent black marker as to the line and station location number. The base line was position in with compass and GPS. The base line azimuth was set at 198 degrees and line azimuth was set at 288 degrees. A magnetic declination of 26 degrees east was used. Lines where compass in and a GPS were used for station separation in steep terrain. The GPS help with topographic correction. In total there was 16 kilometers of lines put in which includes 2 kilometer of base line. A total of 560 station locations where established on this grid.

There were three small individual grids located on anomalous silt values found during the June silt survey. The Grid where called Grid A, B, and C.

Grid A covered two lines 1.25 kilometers long. Lines are 250 meter apart and station spacing was 50 meters. The line direction was put in going straight north south with a magnetic declination of 26 degrees east. All station are marked with orange flagging. The flagging is marked with black permanent markers as to line and station location number. The grid covered 2.5 kilometers of lines with a total of 50 stations established.

Grid B covered four 500-meter long lines. Lines where 100 meter apart and station spacing was 50 meter. The line direction was put in on 58 / 238 degrees with a magnetic declination of 26 degrees east. All station are marked with orange flagging. The flagging is marked with black permanent markers as to line and station location number. There is a total of 2 kilometers of grid lines with 40 stations established.

Grid C covered four 500 meter lines. Lines where 100 meter apart and station spacing was 50 meters. All lines where going straight north south with a magnetic declination was set at 26 degrees east. All station location are marked with orange flagging. The orange flagging is marked with permanent black marker as to the line and station location number. There is a total of 2 kilometer of grid lines with 40 station location established.

6.3 MAGNETIC SURVEY

A magnetic survey was conducted on Simba I and II. The survey used two Scintrex Envi proton magnetometers. One was used for a base station. The base station is set at one location for the whole survey. The base station takes reading on 30 second intervals while the operator is surveying in the field. The reason why a stationary base mag is used is to take into account the earth natural daily magnetic drift. If this drift were not factor in with field data then data would give erratic magnetic anomalies. At night the operator dumps both instruments data into a field laptop computer. A raw data file is stored and a base station daily drift file is stored. Then both mags are linked together with cable and they're an internal program that self corrects the daily magnetic drift in the field mag. The field mag is then re-dump as two different files. One for a copy of the corrected data and a second file for plotting a field map of how the survey is looking.

The operator takes reading on 25 meter station spacing and sometimes goes down to 12.5 meter station spacing depending on the definition required. There was a total of 38 kilometers read on both grids for a total 1560 station reading.

7.0 INTERPRETATION

7.1 SOIL SURVEY

SIMBA GRID I

The soil survey results show elevated values in copper (109-398 ppm), zinc (81-364 ppm) and gold (9-134 ppb) covering the iron formation on Simba Grid I. Both lines that traverse the iron formation on the side hill showed distinct patterns. The group of soil found

SIMBA GRID II

Soil survey results on Simba Grid II show elevated values in copper along the northwest part of the grid. Value exceeded 109-181 ppm for a soil line taken along the east side of the grid (the soil map shows line on west side) This line also showed elevated gold values from 9-22 ppb. The next area on Grid II that showed elevated values are in the southwest corner. Here values exceed 109-181 ppm copper, 111-140 ppm zinc and 9-22 ppb gold.

SIMBA GRID A

Soil survey on Grid a showed elevated copper (182-398 ppm) and gold (9-134 ppb) on the north west corner of the grid. This is the same area that I found quartz vein with copper in float. The same type of quartz vein that carries visible gold found to the north.

SIMBA GRID B

Soil survey on Grid B showed extreme elevated copper (100-329 ppm) values. Almost the entire Grid gave values in excess of 100 ppm. The same area gave high nickel up to 165 ppm and high cobalt up to 75 ppm. This grid covers the same area that I previously receive anomalous soil value in Cu, Ni, Co and Au. The rock unit found in this area is a green, chloritic volcanic unit that possibly can be related to an ultra mafic unit.

SIMBA GRID C

Soil survey on Grid C showed very anomalous copper (107-266 ppm) population and subtle gold (up to 19ppb) on line 300 East.

7.2 MAGNETIC SURVEY

SIMBA GRID I

The Magnetic survey on Grid I revealed seven distinct (A to G) magnetic anomalies. I will start describing magnetic anomalies from the south part of the Grid and move north and finish with Anomaly G located on the northeast corner of the Grid.

Anomaly A is two low intensity magnetic signatures that represent granodiorite to diorite intrusion. One anomaly is between L-100 W and L-100 E and is centered on ST-1000 S. The second anomaly is located on L-300 W and centered on 1100 S.

Anomaly B is a long linear magnetic high anomaly moving in a northwest, southeast pattern that crosses the whole grid. It's centered between 200 south and 500 south. This anomaly represents the main iron formation traveling from Grid I to Grid II.

Anomaly C is an oval shape magnetic high that moving in northwest, southeast direction. It's located between L-1000 W to L-600 W. The magnetic high is centered on ST-100 N.

Anomaly D is a group of magnetic highs that cover five lines and move in northwest, southeast direction. The anomaly move from L-300 W to L-100 E. It's centered on ST-25 N on L-300 W to ST-125 N on L-100 E. This anomaly is a piece of iron formation.

Anomaly E is a single line anomaly that centered on L-500 E and ST-50 N. This is located just north of the main iron formation so it may be a detached piece of this magnetite body.

Anomaly F is a three line anomaly that moves in a northwest, southeast direction. It located on L-700 E and move to L-900 E and is centered around ST-100 N. This anomaly represents another sliver of iron formation.

Anomaly G is a three line anomaly that moves in northwest, southeast direction. The anomaly is located on L-800 E, L-900 E and L-1000 E and centered around ST-400 N. This anomaly represent another sliver of iron formation.

SIMBA GRID II

The Magnetic Survey on Simba Grid II revealed four distinct (A to D) magnetic anomalies. I will start the description from the south part of the grid and move northward to finish on Anomaly D in the north part of the grid.

Anomaly A is a circular magnetic high pattern covering a area 500 meters wide with a distinct magnetic low found in the center. It's located between L-100 N and L-600 N and centered between ST-200 E and ST-400 E. According to the Mann Geological Report this area was noted to have iron formation mineralization.

Anomaly B is one line magnetic high pattern found in two locations. It's found on L-1000 N at ST-100 E and also at ST-300 E. Again this area was note to have iron formation in the area.

Anomaly C is a one line magnetic high that has a circular pattern. It's located on L-1200 N at ST-900 E. This anomaly has is not as intense as the known iron formation so it may be cause by a magnetic intrusion of granodiorite to diorite phase. Diorite intrusive where found on the ridge top above this area.

Anomaly D is a large magnetic feature found in the northern part of the grid. It was note on Mann Geological Map as being a large iron formation that moving east and folding back toward the west. I think the magnetic map gives this impression but may also have some cross faulting as it moves northeast, southwest. The anomaly covers L-1400 N to L-2000 N and it's centered between ST-400 E on L-1400 N to ST-1200 E on L-2000 N.

8.0 RECOMMENDATION

I recommended chip sampling the quartz structure found paralleling the iron formation in various locations. This should give some idea on grade. I would also soil sample the area above the iron formation along 200 meter line spacing with 20 meter station spacing. This would help outline buried parts of the quartz structure not seen on surface. If chip sampling returned positive results then a small drill program would be recommend.

9.0 REFERENCES CITED

Thompson, R.I., Roots, C.F., Mustard, P.S. Geology of Dawson Map Area (116 B, C) Open file 2849 and Open file 3223.

Mann, E. L. Geological Report on the Hans, Werner, Bill, Luck and Put Claim Groups Shell Creek. Assessment file # 017510

10.0 QUALIFICATION

I Shawn Ryan located in Dawson City, Yukon work as a professional prospector. I run a small exploration company located in Dawson city.

I have worked in the exploration business for the last 20 years. I worked the first 12 years as a contractor working on numerous projects in the NWT, Ontario, Quebec and the Yukon. I have worked for the last 8 years as a local prospector for myself.

I have being trained to run various geophysical instruments and surveys such as magnetic surveys, max-min surveys, induce polarity surveys and Vlf surveys.

I have overseen the whole Simba Project and was the party chief in charge.

I own 100 % of the Simba claims and have now option the claims to Logan Resources Ltd.

Dated this 25 of July 2003 in Dawson City, Yukon.

Respectfully submitted

Shawn Ryan

11.0 COST

GRID WORK

Simba I	Grid Lines 17.8 KL @ $150.00	$2,670.00
Simba I	Base Line 2.0 KL @ $150.00	$300.00
Simba II	Grid lines 14 KL @ $150.00	$2,100.00
Simba II	Base line 2.0 KL @ $150.00	$300.00

MAGNETIC SURVEY

Simba I	17.8 KL @ $250.00	$4,450.00
Simba II	14.0 KL @ $250.00	$3,500.00

SOIL SURVEY

Simba I	4 man days @ $250.00 per day	$1,000.00
Simba II	2 man days @ $250.00 per day	$500.00

PROSPECTING

Simba I	2 man days @ $250.00 per day	$500.00
Simba II	2 man days @ $250.00 per day	$500.00

ASSAY WORK

SOILS

Simba I	151 soil @ $13.72	$2,071.72
Simba II	50 soil @ $13.72	$686.00

ROCKS

Simba I	25 rocks @ $23.54	$588.50
Simba II	12 rocks @ $23.54	$282.48

HELICOPTER TRAVEL

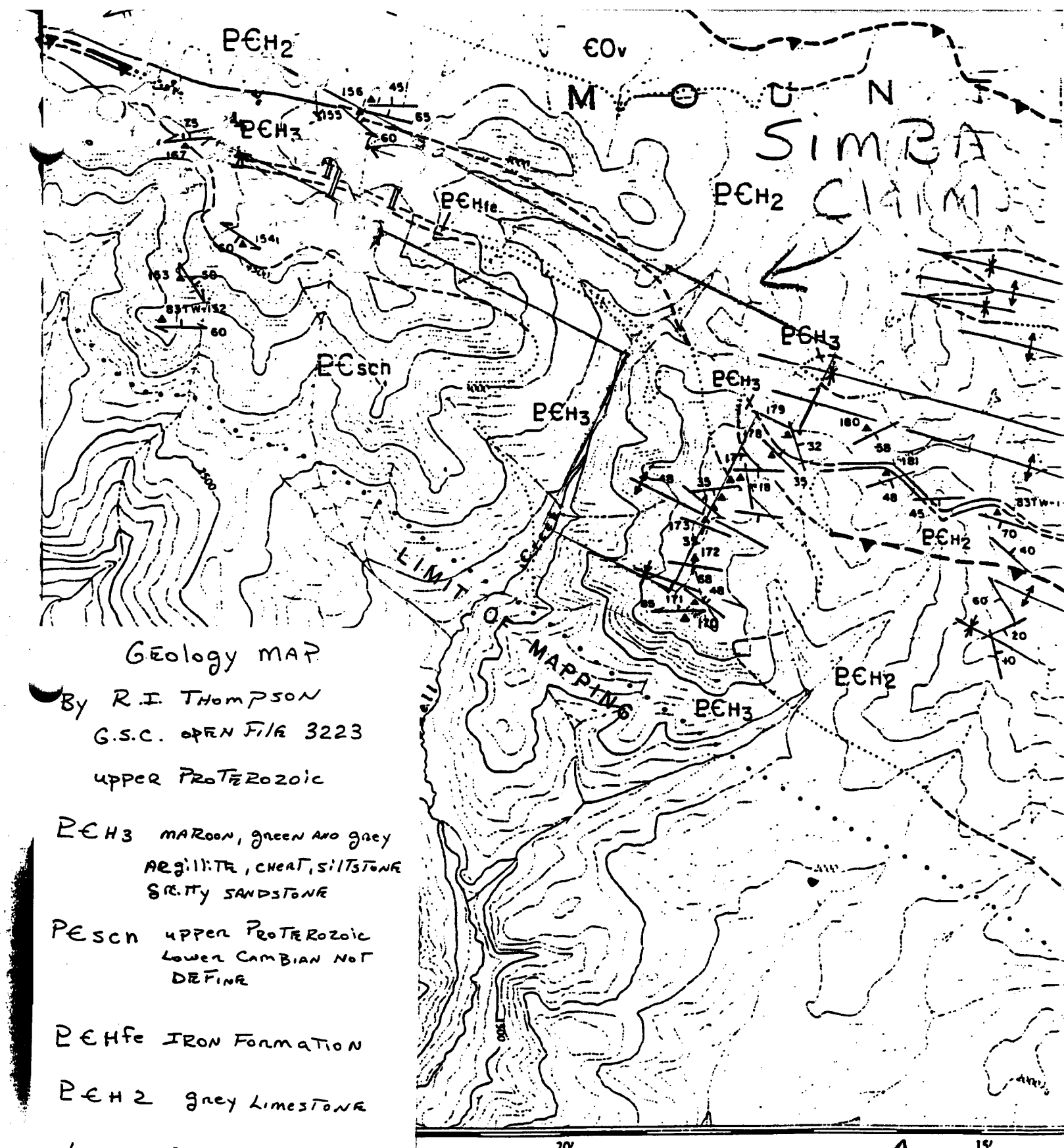
Simba I	Mob in Invoice 29625	$759.70
Simba I	Mob in invoice 29633	$325.00
Simba II	Camp move haft Invoice 31228	$1,600.00
Simba II	Camp de-mob 66% of invoice 31229	$1,056.00

TRUCK RENTAL

Simba I	One day for vehicle, gas and driver	$200.00
Simba II	Pick up Camp de-mob	$200.00

REPORT WRITTING / MAPS

Simba I and II	3 days @ $300.00	$900.00
Maps	Simba I and II	$150.00
	TOTAL	$24,637.00



Geology MAP

By R.I. THOMPSON

G.S.C. OPEN FILE 3223

UPPER PROTEROZOIC

PEH3 MAROON, GREEN AND GREY ARGILLITE, CHERT, SILTSTONE & MINOR SANDSTONE

PEsch UPPER PROTEROZOIC LOWER CAMBIAN NOT DEFINE

PEHfe IRON FORMATION

PEH2 GREY LIMESTONE

LOWER CAMBRIAN AND LOWER ORDOVICIAN

EOv - MARMOT FORMATION

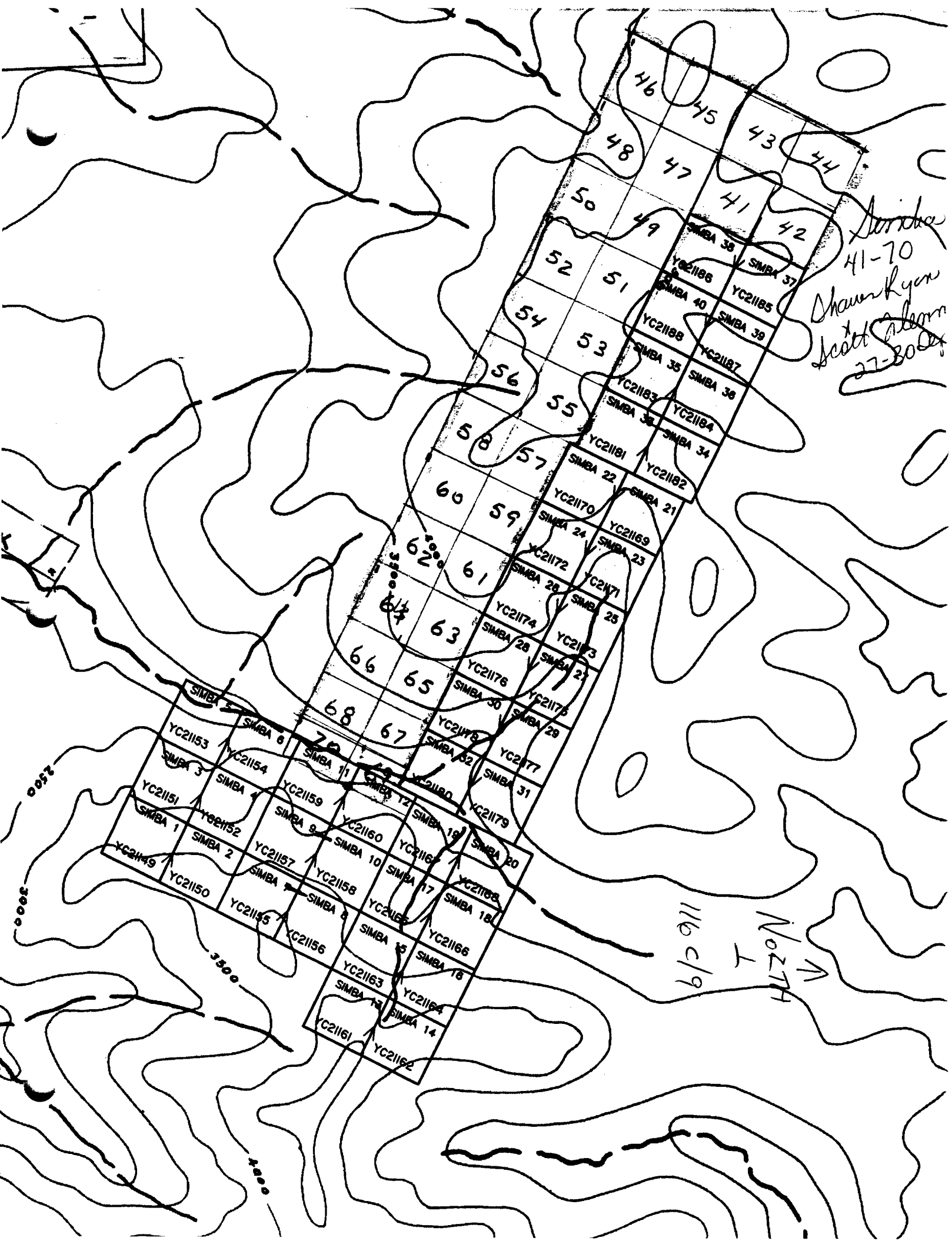
AMYGDALOIDAL BASALTIC FLOWS AND BRECCIAS, MOSTLY SUBAQUEOUS

SHELL CR

YUKON TERRIT

NTS # 116 C/9

SCALE 1:50,000 ÉCHE


Florida
41-70
Shawn Ryan
Scott Adam
27-30
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SIMBA 2
SIMBA 3
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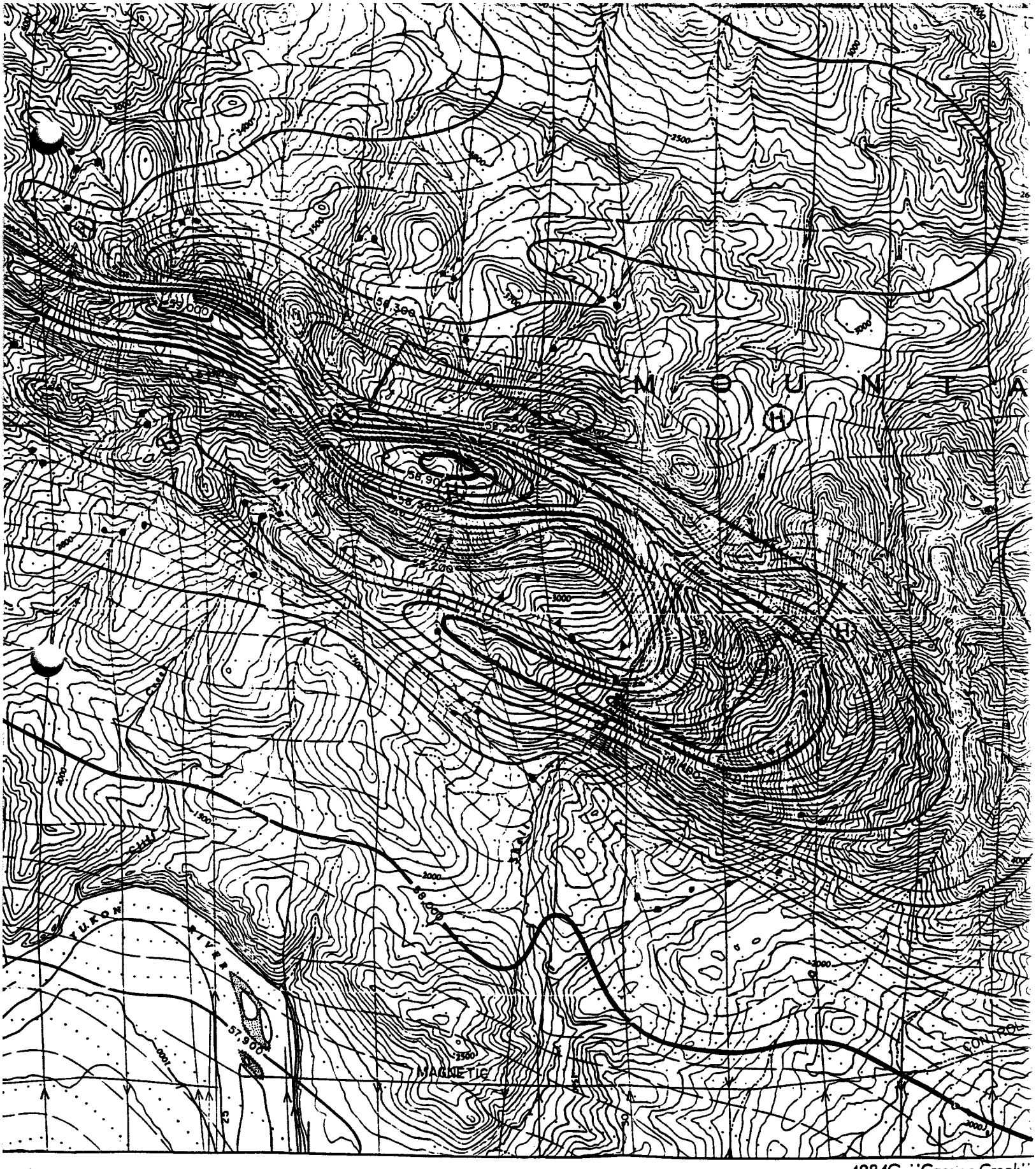
NORTH

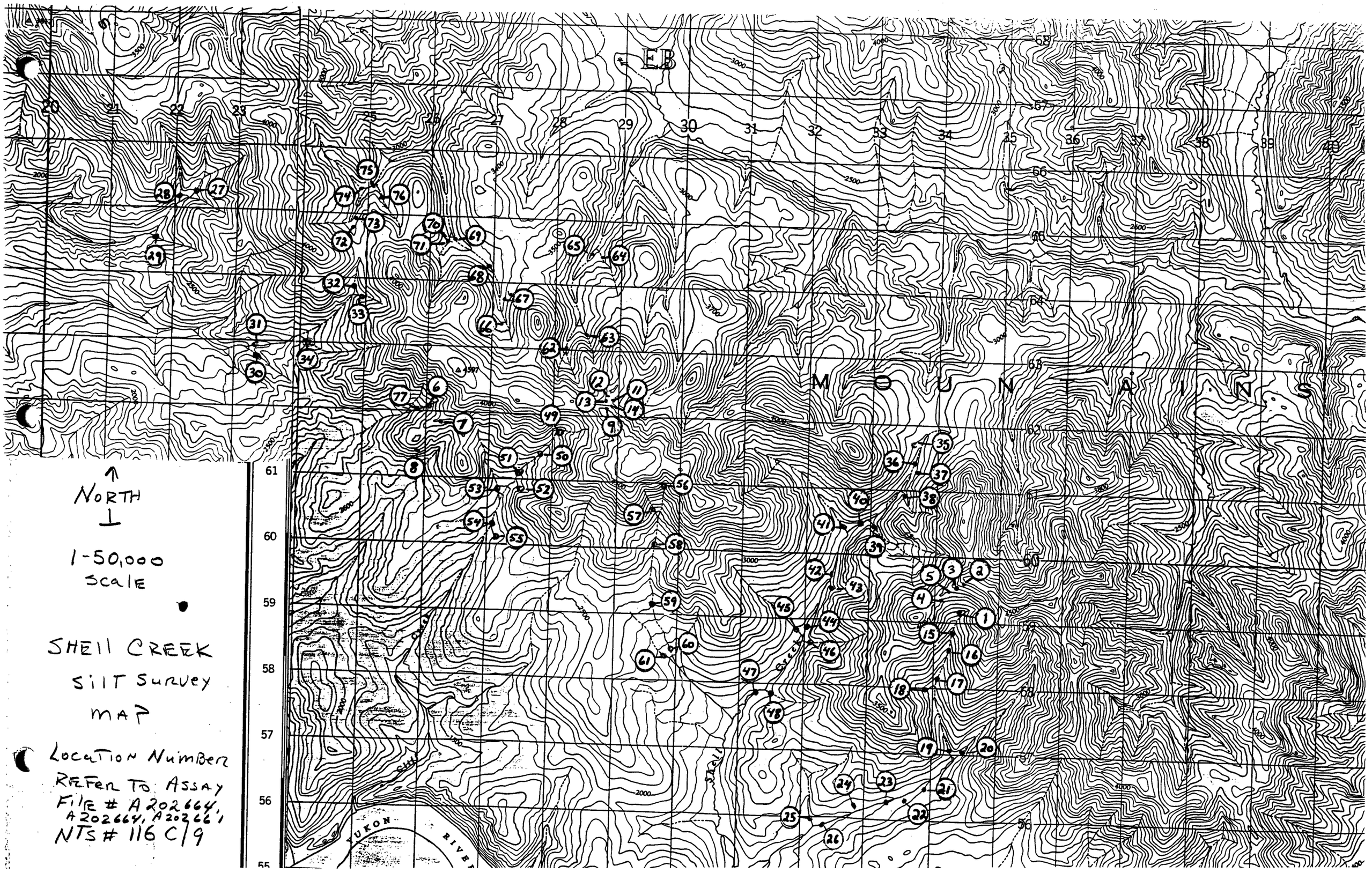


MAGNETIC MAP

MAP 4285 G

4° 120° 68°

SHELL CRE


NORTH
1-50,000
Scale
SHELL CREEK
SILT SURVEY
MAP
LOCATION NUMBER
REFER TO ASSAY
FILE # A202664,
A202664, A202664,
NTS # 116 C/9
MOUNTAINS
SHELL CREEK
YUKON RIVER

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Klondike Exploration File # A202664

Box 213, Dawson City YT Y0B 1G0

SAMPLE# Location #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1 #	1.0	1.8	2.0	41	<.1	3.7	3.6	486	1.67	1.0	2.4	<.5	4.2	64	<.1	<.1	.2	37	.46	.084	7	10.8	.52	222	.115	1	.80	.065	.45	2.2	<.01	2.2	.3	<.05	4
M0602S01 1	2.1	109.5	78.3	252	.3	167.9	50.4	625	7.52	70.6	1.2	5.3	7.7	217	.5	2.0	.7	63	4.22	.146	31	89.7	2.68	124	.076	3	2.19	.004	.22	.1	.02	6.7	.3	.19	7
SIM06S02 2	.6	78.7	12.7	86	.1	267.9	41.6	384	4.39	6.6	.5	<.5	3.3	197	.1	.2	.1	60	3.51	.130	25	192.0	1.73	105	.253	1	1.79	.021	.09	.2	.02	2.2	.2	.07	5
SIM06S03 3	.8	34.9	22.4	106	.1	51.4	18.0	618	3.38	8.9	.6	2.7	3.8	53	.1	.3	.2	56	.97	.114	23	45.8	1.18	129	.084	<1	1.77	.010	.07	.2	<.01	4.4	.2	<.05	6
SIM06S04 4	1.9	88.1	45.3	130	.1	60.6	29.9	1343	6.40	45.2	.6	2.8	2.2	16	.3	2.4	.4	66	.19	.095	20	47.7	.87	143	.038	1	1.87	.004	.11	.1	.05	4.0	.1	<.05	6
SR0602S01 5	8.2	131.2	86.6	396	.4	164.6	60.0	1639	10.05	139.2	1.5	8.7	17.5	43	.4	6.1	1.6	29	.42	.070	35	32.0	.48	124	.013	2	.92	.005	.06	<.1	.07	13.0	.1	.11	2
SI0622S01 6	.4	255.2	4.1	99	.1	158.1	47.5	1111	5.24	6.7	.2	4.2	.6	25	.4	.2	.1	93	.86	.048	2	304.4	2.73	66	.108	1	3.10	.005	.03	.1	<.01	6.6	.1	<.05	5
SI0622S02 7	.3	282.4	8.8	110	.1	166.8	85.9	2244	9.39	24.0	.1	77.3	1.0	122	.3	.4	<.1	215	2.59	.025	2	280.3	3.94	69	.045	1	4.62	.004	.06	.1	.01	32.4	.2	<.05	10
SI0622S03 8	1.0	38.1	61.2	184	.1	44.9	21.2	1274	4.53	17.3	1.2	3.4	5.7	172	.5	4.5	.8	23	15.14	.178	14	24.8	.43	144	.017	<1	.71	.003	.13	.1	.01	3.5	.2	.11	2
SI0622S04 9	.8	218.0	13.0	75	.1	32.6	14.8	1425	3.34	7.9	.6	19.9	4.7	19	.4	.4	.4	46	.30	.086	36	29.0	.69	143	.055	1	1.35	.009	.04	.1	.06	5.8	.1	<.05	4
SI0622S05 10	2.9	121.6	10.0	73	.1	48.2	40.6	6178	7.96	7.1	.6	17.2	4.1	42	.4	.4	.3	53	.67	.177	26	37.9	.61	304	.046	2	1.13	.009	.04	.2	.06	7.5	.1	<.05	4
SI0622S06 11	4.7	128.9	33.7	94	.2	72.6	18.7	959	10.21	92.4	.5	28.3	7.5	18	.4	1.4	.6	53	.15	.047	16	38.0	1.99	55	.046	3	2.28	.002	.04	.1	.05	7.6	.1	<.05	7
RE SI0622S06	4.7	120.8	32.9	90	.2	70.5	17.7	949	9.62	86.2	.5	26.0	7.8	19	.5	1.3	.6	50	.14	.040	15	37.3	1.79	55	.044	1	2.06	.002	.04	<.1	.03	7.6	.1	<.05	7
SI0622S07 12	6.8	113.1	34.4	82	.2	65.3	17.4	1047	9.44	55.5	.4	21.1	5.7	15	.4	.8	.5	60	.23	.062	12	40.6	2.25	63	.085	2	2.34	.002	.03	.1	.05	6.6	.1	<.05	8
SI0622S08 13	4.6	188.8	28.2	588	.2	133.3	51.6	980	15.08	28.8	1.3	8.7	12.6	12	4.6	.5	1.0	20	.14	.103	17	19.9	.57	21	.002	1	1.97	.004	.06	<.1	.08	8.2	.1	.18	3
SI0622S09 14	2.6	158.9	38.9	147	.3	91.4	26.1	653	11.54	21.0	.7	9.5	10.8	3	.9	1.0	.6	31	.01	.066	7	33.8	.69	36	.004	<1	3.83	.002	.05	.1	.10	12.7	.1	.34	6
STANDARD DS3	9.2	123.5	33.8	157	.3	36.6	11.9	793	3.33	31.7	6.2	19.2	3.8	26	5.8	5.0	5.4	76	.51	.088	17	183.1	.62	145	.087	3	1.77	.032	.15	3.8	.21	3.8	1.2	<.05	6

GROUP 1DA - 20.0 GM SAMPLE LEACHED WITH 120 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 400 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 2002 DATE REPORT MAILED: Aug 9/02 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) -1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Klondike Exploration File # A202661

Box 213, Dawson City YT Y0B 1G0

SAMPLE# Location #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1 ✓	1.2	3.4	2.2	45	<.1	4.3	4.0	514	1.83	.7	3.0	<.5	5.1	74	.1	<.1	.2	39	.56	.089	8	12.1	.54	232	.130	2	.89	.070	.50	2.4	.03	2.7	.3	.06	5
M0602SS02 15	.6	53.0	11.7	91	.1	189.7	29.3	477	3.90	10.7	.7	4.4	2.7	136	.2	.3	.1	68	1.44	.171	20	174.2	2.46	60	.120	2	2.04	.015	.13	.1	.02	4.1	.1	.21	8
M0602SS03 16	.7	58.1	14.1	114	.1	166.4	29.8	577	4.52	10.4	.7	2.1	3.2	141	.3	.4	.1	73	1.58	.151	22	155.1	2.31	70	.121	1	2.06	.010	.11	.1	.02	5.4	.1	.12	8
M0602SS04 17	.4	39.0	8.4	75	.1	149.1	28.9	499	3.89	6.9	.6	<.5	3.0	141	.2	.2	.1	69	2.01	.200	21	230.7	2.49	90	.107	2	2.19	.011	.23	.1	.01	3.8	.1	.09	8
M0602SS05 18	.6	42.3	11.3	85	.1	140.4	27.9	558	4.10	7.6	.7	1.8	3.5	133	.2	.3	.1	73	1.77	.176	23	216.2	2.50	90	.107	1	2.13	.008	.18	.1	.02	5.4	.1	.07	7
M0602SS06 19	.3	43.0	13.0	84	.1	119.1	23.2	441	3.25	4.6	.6	2.0	2.4	257	.4	.3	.1	64	9.70	.110	15	203.8	2.13	145	.092	3	1.81	.007	.15	.1	.02	7.4	.1	.20	6
M0602SS07 20	.5	40.8	31.9	153	.1	82.5	18.4	448	3.11	6.9	1.9	1.3	2.2	336	.6	.5	.2	49	4.84	.114	18	94.7	1.41	116	.064	4	1.45	.010	.10	.1	.03	4.7	.1	.18	5
M0602SS08 21	.2	12.9	20.9	103	.1	21.7	8.7	529	2.18	7.1	2.5	3.2	12.1	54	.3	.2	.4	21	.89	.077	30	22.9	.51	133	.038	1	.96	.008	.06	.1	.01	2.9	.2	<.05	5
M0602SS09 22	1.0	13.4	15.1	88	.1	34.8	10.3	280	2.09	8.6	2.9	.8	11.3	22	.2	.5	.4	26	.27	.069	27	31.5	.61	120	.025	1	1.10	.006	.06	.1	.04	2.9	.2	<.05	6
M0602SS10 23	.8	19.6	18.8	126	.1	46.2	13.0	435	2.48	8.5	2.5	2.2	9.6	97	.3	.5	.4	33	1.06	.080	24	50.6	.85	97	.043	1	1.26	.006	.07	.1	.02	3.3	.2	.09	6
M0602SS11 24	.4	22.5	21.2	111	.1	42.7	14.1	928	3.97	20.7	5.2	1.7	13.3	171	.4	.5	.7	32	1.78	.091	26	38.5	.73	308	.037	3	1.31	.024	.09	.1	.03	3.7	.2	.14	7
M0602SS12 25	.6	17.9	12.7	86	.1	50.2	11.2	396	2.31	8.4	1.5	1.3	8.1	44	.3	.8	.3	32	.52	.079	23	34.5	.64	206	.024	<1	1.11	.010	.06	.1	.02	3.4	.1	.16	5
M0602SS13 26	.9	22.3	15.9	133	.1	53.3	13.1	560	2.57	8.3	1.8	<.5	8.0	90	.3	.6	.4	32	.98	.080	22	46.9	.76	107	.029	<1	1.11	.006	.06	.2	.05	3.5	.1	<.05	6
M0602SS14 27	.7	98.7	9.0	89	.1	30.4	20.3	696	3.94	10.5	.9	2.2	2.0	32	.4	.5	.2	86	1.64	.068	7	29.5	1.14	64	.119	7	1.43	.007	.03	.2	.05	6.7	<.1	.07	5
M0602SS15 28	.7	42.3	6.3	32	.1	15.7	8.5	357	1.72	6.2	.5	<.5	1.2	142	.2	.7	.1	24	19.59	.042	5	13.4	.79	80	.021	3	.61	.007	.03	.1	.03	3.7	.1	.33	2
M0602SS16 29	.5	76.3	7.9	91	.1	41.0	14.0	428	2.40	4.5	.4	3.2	1.9	84	.7	.4	.1	43	1.38	.063	9	70.8	.97	159	.052	2	1.27	.012	.04	.2	.03	4.9	.4	.13	3
M0602SS20 30	.7	20.3	10.5	108	.2	54.6	16.9	2066	3.59	13.0	.7	3.6	2.5	77	.7	.7	.2	29	1.30	.096	11	30.9	.58	420	.008	2	1.18	.008	.06	.1	.08	3.2	.1	.13	4
M0602SS21 31	.4	70.4	11.7	97	.1	57.5	20.9	792	3.35	5.7	.4	15.7	2.1	57	.3	.5	.3	52	1.35	.051	9	103.2	1.22	209	.061	1	1.58	.008	.03	.1	.02	5.7	.1	.21	4
RS0602SS01	1.1	51.6	6.5	82	.3	136.5	15.8	446	2.67	5.5	.9	1.7	1.8	27	.2	.2	.2	62	.36	.038	11	95.5	1.03	376	.100	<1	1.73	.013	.21	.1	.02	4.1	.2	.07	5
RS0602SS02	1.5	23.6	6.4	86	.3	38.1	11.2	415	2.67	5.0	.9	2.8	2.8	25	.2	.2	.1	58	.32	.052	13	43.3	.62	807	.091	<1	1.29	.010	.14	.2	.01	4.3	.2	.16	5
RS0602SS03	8.2	14.0	1.1	39	.3	27.6	11.7	655	31.49	37.1	1.4	6.1	1.7	64	.4	.3	<.1	68	.70	.214	9	19.2	.09	846	.007	1	.28	.007	.02	.1	.04	4.0	<.1	.35	<1
RE RS0602SS01	3.1	59.2	5.7	195	.5	78.8	18.3	945	3.31	4.3	2.1	2.0	2.6	48	1.3	.3	.1	92	.76	.060	12	76.9	1.11	660	.144	<1	1.80	.016	.36	.1	<.01	5.1	.3	.14	7
RU0602SS01	3.0	56.5	5.8	194	.5	75.4	17.3	887	3.06	4.4	2.1	3.6	2.5	47	1.6	.2	.1	86	.75	.055	12	74.9	1.08	644	.137	<1	1.71	.015	.35	.1	.02	5.0	.3	.18	7
RU0602SS02	1.6	31.4	5.8	145	.3	42.3	9.4	275	2.18	3.2	1.1	1.1	2.9	24	.4	.1	.1	61	.29	.049	15	40.9	.76	430	.115	<1	1.45	.010	.29	.2	.01	3.7	.2	<.05	5
RU0602SS03	10.3	115.8	6.3	382	.6	85.5	24.7	380	10.80	7.0	4.5	11.3	2.9	43	4.8	.6	.2	64	.54	.070	16	39.9	.71	404	.074	<1	1.66	.016	.22	.2	.03	4.3	.2	.22	5
STANDARD DS3	8.9	130.0	35.7	157	.4	38.2	12.2	797	3.44	32.7	7.3	19.9	4.1	29	5.8	5.4	5.9	75	.51	.082	18	186.3	.60	144	.082	1	1.68	.030	.15	4.0	.21	4.0	1.1	<.05	6

GROUP 1DA - 20.0 GM SAMPLE LEACHED WITH 120 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 400 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 2002 DATE REPORT MAILED: Aug 9/02 SIGNED BY..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SILT SAMPLE

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 2 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Klondike Exploration File # A202662 Page 1 (a)

Box 213, Dawson City YT Y0B 1G0

SAMPLE# Location #	Ba ppm	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
G-1 ↓	1043.1	4.6	8.0	21.8	4.0	21.7	141.1	1	801.7	1.7	7.8	4.1	60	3.1	129.7	19.8	24.1	46.0	5.46	22.7	4.5	1.10	3.66	.44	2.83	.58	1.74	.30	1.81	.31
M0602SS17 32	639.0	13.2	3.3	14.9	8.6	13.7	77.2	<1	212.2	1.0	9.7	3.1	127	1.4	319.7	29.2	34.7	63.4	7.59	30.9	6.2	1.12	4.70	.74	4.74	.84	2.65	.38	2.63	.43
M0602SS18 33	590.8	18.6	3.0	14.6	6.9	13.4	57.8	<1	233.5	1.1	7.6	2.9	138	1.4	248.8	28.1	30.5	58.9	6.86	27.8	5.9	1.12	4.59	.72	4.29	.88	2.54	.40	2.60	.42
M0602SS19 34	313.5	42.1	1.4	16.2	2.2	5.6	22.7	<1	117.2	.4	2.9	.6	267	.4	81.8	27.0	11.6	20.6	2.80	12.1	3.4	.84	3.55	.61	4.32	.93	2.72	.42	2.70	.40
SF0602SS01 35	515.1	13.4	3.2	13.7	7.0	13.9	77.4	1	245.6	1.0	10.0	3.3	94	1.6	247.4	29.5	36.2	66.6	7.96	32.0	5.9	1.26	5.43	.76	4.71	.87	2.39	.39	2.71	.39
SF0602SS02 36	644.8	15.3	2.8	15.8	8.1	16.9	71.8	<1	251.4	1.3	10.6	3.3	111	1.6	293.0	30.6	41.8	77.9	9.28	38.0	6.2	1.44	5.46	.80	5.12	.91	2.57	.42	2.71	.42
SF0602SS03 37	684.9	13.5	3.8	13.8	6.7	14.4	71.9	<1	325.6	1.0	12.0	4.3	100	1.7	258.0	33.4	37.7	69.2	8.18	33.2	6.5	1.27	5.57	.82	4.66	.96	2.74	.43	2.97	.45
SF0602SS04 38	686.2	11.7	3.6	12.6	4.8	9.9	67.1	<1	307.4	.8	7.6	3.5	94	1.3	167.6	35.2	30.0	54.2	6.90	28.8	5.8	1.23	5.38	.84	4.85	1.04	2.91	.43	2.91	.43
SF0602SS05 39	484.7	20.1	4.2	13.8	5.3	13.7	85.4	<1	240.8	.9	9.1	2.5	113	1.2	178.8	32.3	35.5	67.0	8.23	32.8	7.1	1.38	6.13	.86	5.10	1.00	2.74	.42	2.78	.42
SF0602SS06 40	562.6	19.2	3.6	15.2	6.9	17.8	79.5	<1	247.0	1.3	10.4	3.0	112	1.7	264.7	36.5	48.8	92.4	10.68	42.1	7.6	1.61	6.47	.92	5.78	1.13	3.22	.47	3.05	.47
SF0602SS07 41	616.3	14.9	3.1	14.3	5.3	11.3	61.0	<1	225.2	.9	7.3	3.1	107	1.3	188.3	29.0	30.0	55.6	6.86	25.5	5.3	1.16	4.84	.74	4.54	.91	2.70	.38	2.70	.39
SF0602SS08 42	556.4	19.1	3.7	15.6	6.6	15.5	75.8	<1	241.1	1.1	8.9	2.7	119	1.8	240.2	33.8	43.1	82.8	9.98	38.1	7.6	1.47	5.90	.88	5.36	.99	3.02	.45	2.94	.42
SF0602SS09 43	337.9	32.4	4.7	16.1	5.3	28.2	53.0	<1	296.4	1.8	7.6	2.1	149	1.0	186.9	27.3	39.3	73.2	8.99	36.5	7.6	1.84	6.59	.86	5.17	.91	2.46	.38	2.05	.31
SF0602SS10 44	484.6	23.8	3.5	14.6	6.3	22.1	66.9	<1	205.3	1.6	8.4	2.8	132	1.4	228.2	32.1	40.8	79.2	9.37	37.9	7.5	1.71	6.41	.90	5.37	1.04	2.91	.42	2.72	.42
SF0602SS11 45	795.3	17.8	3.8	16.0	6.9	16.4	63.2	<1	234.3	1.6	7.8	3.1	138	2.4	253.5	30.8	34.6	63.1	7.84	31.9	6.3	1.43	5.29	.89	4.89	.93	2.81	.43	2.82	.47
SF0602SS12 46	451.1	36.2	5.3	17.9	5.9	37.9	72.6	1	198.9	2.4	9.1	2.3	162	1.9	233.9	31.3	49.0	94.4	11.28	42.9	8.4	2.04	6.84	.93	5.11	1.00	2.74	.40	2.60	.38
SF0602SS13 47	429.2	29.4	3.7	15.4	4.9	28.2	64.4	<1	168.9	2.0	7.8	2.6	137	1.7	181.9	28.8	39.5	77.5	9.16	36.2	7.0	1.69	5.80	.82	5.02	.95	2.67	.39	2.37	.33
SF0602SS14 48	1086.5	14.1	5.2	17.3	7.0	16.7	100.8	<1	131.9	1.6	14.3	4.4	108	2.6	266.9	30.9	44.9	83.6	10.07	36.6	7.2	1.21	5.94	.86	4.85	.97	2.80	.42	2.75	.44
SF0602SS15 49	393.1	20.7	4.7	14.2	4.6	12.1	55.3	1	134.0	.9	5.5	1.7	139	1.5	159.6	33.6	27.0	45.2	6.41	26.3	5.8	1.32	5.72	.81	5.53	1.05	3.01	.45	2.79	.47
SF0602SS16 50	309.2	27.5	4.8	17.0	4.4	10.6	46.6	1	140.8	1.0	4.6	.8	185	1.2	161.0	32.0	23.0	41.1	5.55	22.4	5.2	1.15	5.09	.81	5.11	1.09	2.99	.46	3.09	.49
SF0602SS17 51	274.2	26.2	3.3	14.9	3.5	8.9	40.0	<1	131.1	.7	4.8	1.1	180	1.0	134.9	30.4	20.2	34.1	4.70	19.9	4.3	1.07	4.71	.77	4.69	.93	2.83	.40	2.69	.41
RE SF0602SS17	277.1	26.9	3.4	14.2	3.4	8.4	39.5	<1	126.9	.6	4.4	1.4	174	1.0	119.8	29.0	19.0	32.3	4.57	18.6	4.4	1.06	4.30	.75	4.68	.98	2.81	.42	2.75	.42
SF0602SS18 52	432.7	36.4	3.5	19.5	4.9	41.2	56.5	<1	416.7	2.3	8.5	1.6	199	1.1	192.6	31.0	42.8	82.9	9.98	38.9	7.9	2.02	6.74	1.00	5.39	1.05	2.77	.39	2.69	.41
SF0602SS19 53	327.8	34.0	2.0	14.7	3.1	12.3	43.1	<1	158.6	.6	4.8	.9	210	.5	112.3	23.5	18.4	34.9	4.19	17.0	4.0	1.04	3.63	.55	3.70	.75	2.21	.33	2.38	.31
SF0602SS20 54	809.3	16.2	4.1	16.2	6.2	16.7	83.1	2	151.2	1.1	9.4	3.1	133	1.9	240.7	29.8	37.5	69.4	8.55	31.3	6.1	1.25	4.94	.74	4.85	.99	2.79	.43	2.95	.40
SF0602SS21 55	979.4	13.9	3.5	16.7	6.2	16.5	82.7	<1	186.7	1.1	11.6	2.4	110	1.6	219.9	25.8	35.6	65.3	8.15	29.1	6.4	1.14	4.66	.76	4.15	.84	2.41	.38	2.54	.34
SF0602SS22 56	368.2	33.1	5.3	18.7	4.8	14.0	68.7	8	149.0	1.0	7.4	1.8	167	1.9	191.1	45.7	32.3	54.2	7.89	30.8	7.5	1.69	6.89	1.08	6.47	1.35	3.95	.56	3.74	.54
SF0602SS23 57	335.8	35.8	2.8	16.0	3.9	8.4	41.5	3	121.9	.6	5.1	1.4	207	.9	147.3	31.8	18.4	33.9	4.52	16.8	4.3	1.06	4.35	.72	4.72	.99	3.07	.44	3.17	.44
SF0602SS24 58	495.2	25.7	2.9	16.5	5.2	12.9	59.0	<1	161.6	.9	6.3	2.4	171	1.3	202.5	32.7	25.8	49.9	6.15	23.1	5.1	1.14	5.19	.86	5.10	1.10	3.03	.45	3.34	.45
SF0602SS25 59	383.8	29.2	3.0	18.2	6.4	15.4	67.6	3	175.5	1.0	7.3	1.9	198	1.7	233.4	37.4	28.3	53.6	6.74	26.0	5.5	1.32	5.32	.88	5.56	1.15	3.37	.51	3.54	.50
SF0602SS26 60	462.5	29.5	2.5	17.3	6.1	17.0	66.8	<1	186.2	1.2	7.7	2.0	192	1.3	217.1	34.0	27.5	55.6	6.60	24.7	5.0	1.25	5.15	.89	5.47	1.08	3.36	.46	3.49	.46
SF0602SS27 61	766.4	9.6	11.0	18.2	9.4	19.9	119.1	2	146.4	1.5	16.0	5.6	79	2.4	332.3	30.8	46.8	90.9	10.46	38.6	6.9	1.30	5.16	.83	4.94	1.01	2.86	.45	3.17	.46
STANDARD SO-17	404.9	18.7	4.0	20.0	12.0	25.0	24.0	9	306.7	4.5	12.2	11.5	133	10.7	356.0	27.7	10.8	22.7	2.91	13.2	3.2	1.04	3.71	.64	4.20	.96	2.77	.42	2.92	.44

GROUP 4B - REE - LiBO2 FUSION, ICP/MS FINISHED.
- SAMPLE TYPE: SILT SS80 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 2002 DATE REPORT MAILED: Aug 12/02 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Klondike Exploration File # A202662 Page 1 (b)

Box 213, Dawson City YT Y0B 1G0

SAMPLE# Location #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Au* ppb
G-1 ↓	1.2	2.2	2.1	42	4.6	.6	<.1	<.1	.2	<.1	1.5	<.01	.3	.5
M0602SS17 32	.6	27.1	14.3	83	23.1	8.2	.3	.5	.2	.1	9.4	.05	.1	9.4
M0602SS18 33	.7	53.0	11.5	79	33.6	8.5	.3	.5	.2	.1	7.8	.04	.1	7.5
M0602SS19 34	.3	170.2	6.3	93	94.9	3.8	.4	.2	<.1	.1	6.9	.03	.2	7.0
SF0602SS01 35	.6	20.5	13.9	72	25.8	8.0	.1	.4	.2	.1	3.6	.05	.1	3.4
SF0602SS02 36	.5	15.6	9.6	67	30.0	5.8	.2	.3	.1	.1	1.5	.03	.1	1.4
SF0602SS03 37	.6	26.2	30.9	127	25.2	15.3	.4	1.3	.2	.2	1.8	.07	.1	1.7
SF0602SS04 38	.6	32.2	19.4	125	27.8	11.6	.5	.8	.2	.2	3.1	.07	.1	3.1
SF0602SS05 39	1.5	63.9	28.5	182	56.9	16.2	1.0	1.2	.3	.2	3.9	.08	.1	4.0
SF0602SS06 40	.8	36.2	18.2	124	44.0	11.8	.3	.8	.2	.1	1.2	.03	.1	1.1
SF0602SS07 41	.6	72.3	9.9	83	28.1	6.1	.4	.5	.1	.1	31.6	.07	.1	33.1
SF0602SS08 42	.9	47.8	15.7	114	40.5	9.7	.4	.8	.2	.1	5.6	.05	.1	5.7
SF0602SS09 43	.9	67.6	11.1	90	116.2	6.1	.4	.5	.1	.1	6.0	.05	.1	6.0
SF0602SS10 44	1.1	48.6	13.7	102	69.6	9.9	.2	.6	.1	.1	4.3	.03	.1	4.3
SF0602SS11 45	.7	46.8	7.8	91	42.8	5.7	.4	.4	.1	.1	10.6	.04	.1	11.1
SF0602SS12 46	1.0	48.1	18.9	116	131.8	12.1	.2	.6	.2	.1	2.1	.01	.2	2.1
SF0602SS13 47	1.2	46.5	17.2	110	106.5	13.4	.2	.7	.2	.1	1.7	.03	.1	1.6
SF0602SS14 48	.9	22.4	13.6	108	76.0	7.7	.3	.7	.3	.1	<.5	.05	.1	.2
SF0602SS15 49	.5	242.5	6.2	82	40.5	4.5	.4	.3	.1	.1	10.7	.07	.1	11.2
SF0602SS16 50	.4	175.3	4.5	69	52.6	9.4	.3	.3	.1	.1	8.4	.05	.1	8.7
SF0602SS17 51	.4	207.8	3.7	67	51.3	7.9	.4	.3	.1	.1	3.8	.07	.1	3.9
RE SF0602SS17	.4	217.2	3.5	71	57.5	8.2	.4	.3	.1	.1	6.6	.07	.1	6.8
SF0602SS18 52	.8	53.1	10.6	95	75.3	9.7	.2	.2	.1	.1	28.0	.02	.1	29.4
SF0602SS19 53	.6	107.3	7.9	102	89.9	10.1	.2	.2	.1	.1	22.1	.03	.1	23.1
SF0602SS20 54	.7	46.0	11.6	101	58.4	9.7	.4	.8	.2	.1	2.5	.04	.1	2.5
SF0602SS21 55	.6	23.6	10.9	91	53.5	8.2	.3	.6	.2	.1	1.0	.05	.1	1.0
SF0602SS22 56	.3	300.5	9.9	90	77.5	3.3	.5	.3	.2	.1	18.1	.03	<.1	19.0
SF0602SS23 57	.6	252.6	4.6	75	71.3	4.2	.3	.4	.1	.1	8.3	.04	.1	8.6
SF0602SS24 58	.6	108.5	5.4	78	49.9	5.2	.3	.4	.2	.1	9.9	.02	<.1	10.3
SF0602SS25 59	.4	50.7	4.4	72	48.5	3.2	.1	.2	.1	.1	6.2	.02	<.1	6.4
SF0602SS26 60	.4	56.0	5.4	80	52.0	4.5	.3	.3	.1	<.1	18.6	.02	<.1	19.5
SF0602SS27 61	.4	18.5	13.0	69	21.3	11.4	.2	.7	.3	.1	2.0	.03	.1	2.0
STANDARD DS3	9.7	119.6	32.6	165	36.5	34.2	5.9	5.3	5.0	.3	22.3	.20	1.1	22.0

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C AU* BY ACID LEACH, ANALYZE BY ICP-MS. (20 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 2002 DATE REPORT MAILED: SIGNED BY.....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL

Klondike Exploration FILE # A202662

ACME ANALYTICAL

SAMPLE# Location # ↓	Ba ppm	Co ppm	Cs ppm	Ga ppm	Hf ppm	Nb ppm	Rb ppm	Sn ppm	Sr ppm	Ta ppm	Th ppm	U ppm	V ppm	W ppm	Zr ppm	Y ppm	La ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm
G-1	1064.7	3.6	8.5	21.3	4.4	24.0	151.9	1	847.4	1.4	7.4	4.8	63	3.1	138.4	19.5	29.9	56.9	6.43	23.9	4.4	1.14	3.17	.53	2.98	.55	1.78	.30	2.06	.35
SIM06SS01 62	513.2	159.6	3.7	15.6	6.8	45.2	63.2	1	526.7	2.8	8.4	3.4	180	1.5	240.3	48.0	70.6	130.1	14.33	59.3	11.9	2.81	9.47	1.52	8.05	1.50	4.21	.60	3.34	.59
SIM06SS02 63	566.7	22.7	5.4	15.7	5.6	23.4	83.3	<1	353.6	1.4	10.5	2.7	145	1.5	201.1	33.7	36.4	71.5	7.79	31.8	6.4	1.53	5.81	.94	5.12	1.05	3.09	.49	2.85	.42
SIM06SS03 64	535.5	13.0	5.9	13.4	6.1	10.4	83.9	<1	172.4	.7	9.4	2.9	108	1.6	204.5	26.2	36.0	63.5	7.43	30.4	5.7	1.08	4.50	.66	4.21	.81	2.55	.40	2.41	.41
SIM06SS04 65	489.7	64.7	3.8	14.2	6.8	24.1	72.3	1	297.1	1.5	9.3	3.4	135	1.4	244.9	35.0	49.8	93.3	10.50	43.0	7.9	1.89	6.52	1.05	5.90	1.08	3.20	.46	3.12	.43
SIM06SS05 66	600.9	13.1	3.0	12.3	7.1	12.2	51.6	1	244.6	.8	6.1	2.2	112	1.0	248.8	31.7	30.9	55.5	6.67	26.8	5.2	1.23	4.30	.70	4.38	.87	2.59	.41	2.62	.41
SIM06SS06 67	640.5	12.9	3.1	15.3	11.8	15.8	66.0	<1	277.8	1.1	15.9	4.8	118	1.7	442.0	40.5	47.8	88.3	9.95	39.6	8.1	1.57	6.63	1.00	6.03	1.22	3.70	.55	3.60	.60
SIM06SS07 68	578.3	17.5	2.7	14.3	8.8	14.6	60.7	1	220.7	1.1	8.9	3.0	138	.9	305.0	29.6	38.6	71.6	7.99	31.5	6.6	1.30	5.05	.84	4.86	.96	2.89	.46	2.82	.45
SIM06SS08 69	560.7	13.0	2.9	15.2	14.0	15.3	76.0	2	179.9	1.1	11.2	3.7	118	2.3	500.5	43.3	53.7	103.5	11.19	44.2	8.1	1.58	6.73	1.06	6.25	1.38	4.03	.61	4.01	.67
SIM06SS09 70	484.1	18.3	4.3	13.8	7.3	16.9	93.1	3	173.0	1.1	9.9	2.5	126	1.0	247.7	32.0	36.4	70.1	7.72	32.6	6.4	1.17	4.99	.82	5.03	.97	2.87	.47	2.83	.51
RE SIM06SS10	602.4	12.9	2.0	11.3	6.1	11.1	58.2	<1	244.6	.8	6.8	2.1	96	1.4	205.7	22.7	24.2	46.9	5.24	20.6	4.1	.99	3.58	.57	3.45	.71	2.01	.31	2.14	.32
SIM06SS10 71	633.1	13.0	2.1	11.0	5.2	11.1	58.0	1	242.3	.8	6.1	2.5	99	.9	201.6	23.5	24.9	48.4	5.38	22.2	4.3	.83	3.46	.61	3.66	.73	2.31	.33	2.15	.35
SIM06SS11 72	563.3	13.4	3.3	13.3	7.6	12.1	78.8	1	191.6	.8	8.4	3.1	115	1.2	259.6	30.0	34.3	63.0	7.27	27.8	6.2	1.20	4.86	.80	4.56	.88	2.69	.40	2.58	.42
SIM06SS12 73	611.7	14.7	5.1	13.0	6.1	10.9	61.6	<1	204.9	.7	7.9	2.5	126	1.1	212.7	27.7	29.6	54.1	6.42	25.5	4.9	1.18	4.51	.69	4.30	.83	2.46	.34	2.76	.44
SIM06SS13 74	436.6	12.8	5.0	13.6	5.4	10.7	100.6	<1	127.9	1.0	9.2	3.0	103	2.7	193.3	25.8	30.5	58.2	6.73	26.4	5.0	.99	4.26	.66	3.93	.72	2.40	.39	2.36	.37
SIM06SS14 75	471.5	13.9	4.9	13.6	6.3	11.0	92.9	<1	148.3	1.0	7.4	3.1	118	1.6	240.2	26.5	32.0	59.0	6.90	27.4	5.8	1.17	3.89	.69	3.74	.79	2.44	.40	2.45	.40
SIM06SS15 76	516.7	12.5	4.0	13.9	8.5	12.6	88.5	1	149.8	1.4	8.1	3.0	113	2.1	304.7	29.9	34.7	64.2	7.58	29.1	5.6	1.21	4.85	.77	4.71	.95	2.71	.44	2.64	.45
S10622SS01 77	206.7	44.6	1.2	17.3	1.8	4.4	15.2	<1	138.8	.4	1.6	.5	290	.4	59.1	27.2	8.3	16.6	2.10	9.3	2.3	.73	3.45	.59	3.99	.84	2.91	.44	2.73	.45
STANDARD SO-17	406.4	18.8	3.8	20.0	12.3	25.8	23.4	9	297.5	4.7	11.6	11.8	132	10.3	357.1	28.1	11.4	23.3	2.90	13.4	3.3	1.04	3.79	.66	4.23	.95	2.72	.42	2.90	.46

Sample type: SILT SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ___

SAMPLE# Location #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Au* ppb
G-1 ↓	1.2	2.5	2.2	43	4.6	.5	<.1	<.1	.1	<.1	2.5	<.01	.4	.7
SIM06SS01 62	1.9	92.4	17.6	249	365.0	24.3	6.8	.8	.2	.1	6.2	.08	.1	5.6
SIM06SS02 63	.7	54.6	24.0	135	44.3	13.3	.2	.7	.3	.1	7.4	.08	.1	6.9
SIM06SS03 64	.8	50.6	10.2	91	25.7	12.6	.3	.8	.2	.2	6.3	.09	.1	6.0
SIM06SS04 65	1.2	60.3	16.2	136	110.7	16.9	1.9	.7	.2	.1	11.7	.08	.1	11.4
SIM06SS05 66	.7	40.2	7.0	68	26.4	6.2	.2	.4	.1	.1	6.2	.03	.1	6.0
SIM06SS06 67	.5	23.6	14.1	75	23.1	8.9	.3	.6	.3	.1	2.5	.05	.1	2.3
SIM06SS07 68	.4	30.9	10.6	87	31.7	6.6	.2	.5	.1	.1	2.8	.04	.1	2.6
SIM06SS08 69	1.0	20.5	9.4	61	27.5	9.8	.2	.9	.1	.1	3.6	.05	.1	3.5
SIM06SS09 70	.9	44.0	17.6	108	34.6	11.6	.3	.7	.2	.1	5.2	.03	.1	5.1
RE SIM06SS10	.7	19.0	10.4	62	23.1	11.7	.1	2.0	.1	.1	3.3	.08	.1	3.2
SIM06SS10 71	.7	19.7	10.8	59	23.6	11.4	.2	2.1	.1	.1	3.7	.08	.1	3.5
SIM06SS11 72	.6	32.9	13.5	84	22.3	14.5	.2	1.2	.2	.2	6.3	.07	.1	6.1
SIM06SS12 73	1.0	83.9	16.9	122	19.5	6.8	.7	.5	.1	.1	2.0	.08	.1	1.9
SIM06SS13 74	.6	34.6	9.4	62	22.2	13.1	.2	1.4	.2	.1	2.1	.07	.1	1.9
SIM06SS14 75	.5	31.2	8.6	82	21.0	8.1	.2	.8	.1	.1	3.2	.07	.1	3.0
SIM06SS15 76	.5	25.0	12.6	66	25.7	15.6	.2	1.6	.2	.2	6.1	.08	.1	5.9
SI0622SS01 77	.1	222.2	2.8	75	103.0	4.6	.3	.2	<.1	.1	3.2	.02	.1	3.2
STANDARD DS3	9.7	130.0	32.6	160	37.1	32.6	6.0	4.9	5.3	.3	21.6	.21	1.2	21.5

Sample type: SILT SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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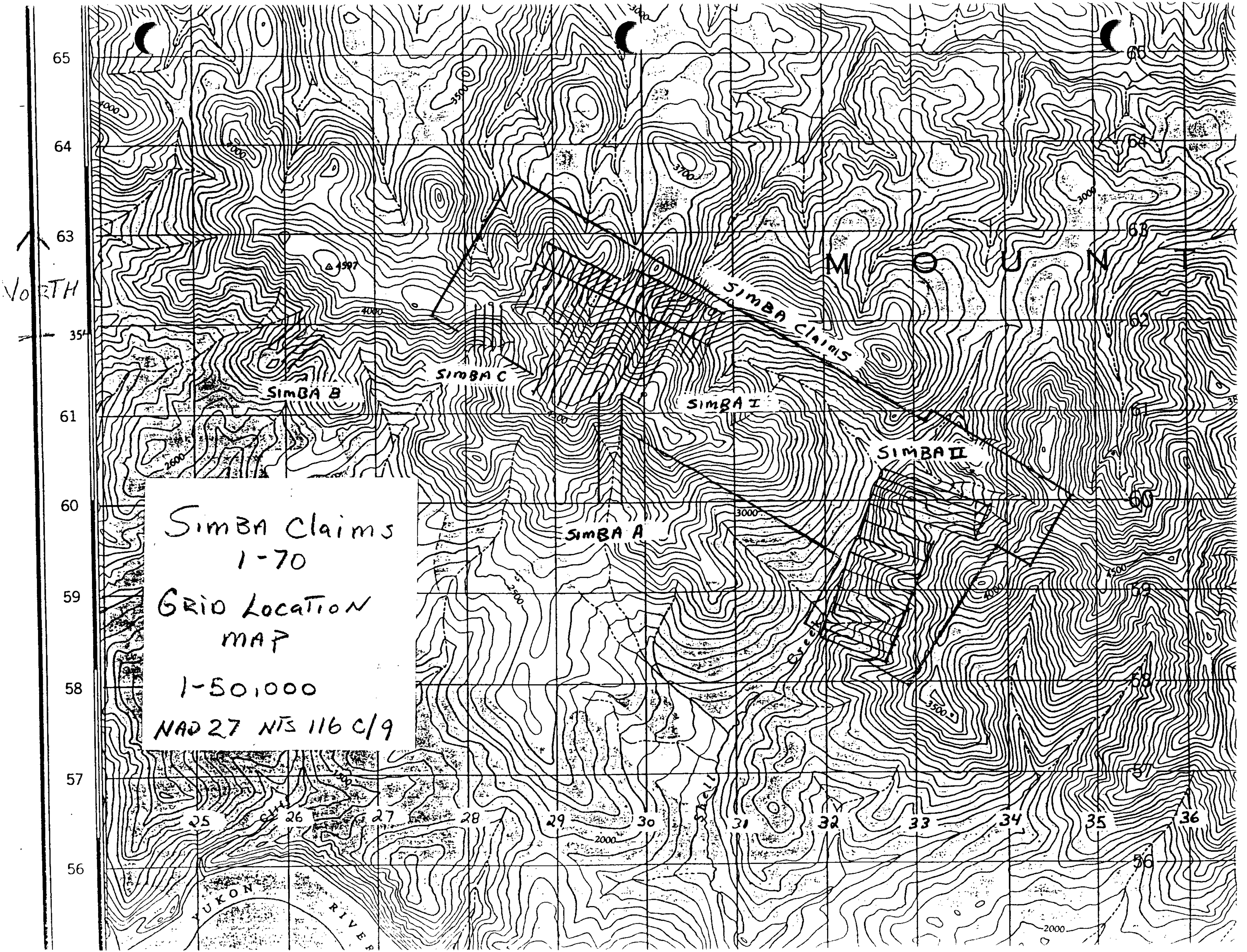
Simba Claims
1-70
Grid Location
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SIMBA Claims
SIMBA A
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SIMBA II
NORTH
M O U N T
YUKON
RIVER

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
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GEOCHEMICAL ANALYSIS CERTIFICATE

Logan Resources Ltd. File # A205281 Page 1

1022 - 470 Granville St., Vancouver BC V5C 1V5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.8	2.8	5.2	44	<.1	7.7	4.3	549	2.10	8.6	1.7	.5	4.6	96	.1	.2	.2	39	.61	.081	9	18.1	.56	266	.146	2	.92	.103	.56	2.7	.09	2.5	.3	<.05	5
SI 2841062339	.4	156.4	7.7	107	.1	29.1	17.0	1481	2.74	2.9	.3	15.1	1.1	22	.2	.2	.2	34	.69	.093	10	23.3	.85	83	.064	2	1.19	.005	.04	.3	.03	2.2	<.1	<.05	4
SI 2842262331	.6	197.4	10.5	77	.1	34.0	16.0	1255	2.67	3.7	.5	10.5	.6	21	.2	.2	.3	39	.29	.089	13	36.0	.88	101	.035	4	1.74	.012	.04	.1	.03	2.2	.1	<.05	6
SI 2843462331	.6	116.6	10.0	63	.1	17.3	9.6	1040	2.05	3.0	.4	38.7	.4	12	.3	.2	.3	36	.19	.080	7	16.9	.47	46	.042	1	1.02	.008	.03	.1	.02	1.2	<.1	<.05	5
SI 2857462396	3.8	181.7	46.5	117	.6	127.0	26.9	838	26.59	66.0	1.0	9.5	7.9	34	1.9	1.7	.3	36	1.00	.065	15	45.2	1.53	19	.007	3	2.65	.002	.03	.1	.09	7.2	.1	.60	5
SI 2860262377	2.9	145.4	35.1	119	.3	85.5	24.8	1626	13.18	44.0	.9	19.9	7.4	14	.9	1.9	.5	74	.40	.096	14	55.7	1.89	55	.022	5	2.38	.007	.04	.1	.08	10.6	.1	.08	7
SI 2872662301	3.2	136.8	38.1	170	.4	111.0	42.5	1430	10.37	73.7	.8	18.0	9.2	27	1.3	2.7	.9	38	.67	.086	18	34.1	1.44	48	.017	1	3.05	.015	.08	.1	.22	8.0	.3	.29	5
SI 2873862312	3.2	315.2	13.4	124	.1	340.4	163.4	5141	14.68	26.6	1.0	<.5	7.8	19	12.7	.4	.3	39	.70	.060	37	28.5	2.03	15	.015	2	3.44	.003	.01	<.1	.02	10.9	.1	.11	5
SI 2874462326	2.3	207.5	21.5	132	.2	149.6	39.0	1888	16.56	106.3	.5	9.5	10.6	31	.9	2.3	.4	53	.83	.049	11	49.2	2.46	26	.005	2	3.55	.002	.02	<.1	.08	10.5	.1	.14	8
SIA 2891962296	6.1	162.5	58.6	137	.3	75.6	20.0	1512	19.68	279.1	.3	48.0	10.8	45	.3	1.9	1.1	114	.35	.071	15	61.2	3.52	49	.011	4	3.16	.002	.05	.2	.06	10.8	.1	.20	14
SIB 2891962296	4.6	152.2	33.7	87	.2	53.1	10.2	682	9.43	233.3	.5	16.5	6.5	46	.3	1.5	1.2	42	.33	.056	15	28.1	1.66	36	.022	3	2.27	.002	.06	.1	.03	5.5	.2	.12	6
SIC 2891962296	1.7	116.6	20.8	90	.1	85.9	26.7	1994	9.58	74.2	.2	9.0	4.4	92	.6	1.1	.3	47	5.13	.043	15	33.2	2.90	22	.007	4	2.09	.001	.02	<.1	.03	6.2	.1	.32	6
SI 2898262642	2.2	46.9	23.0	71	.1	32.0	30.4	3811	4.66	9.3	1.1	129.9	1.0	25	.4	.4	.4	56	.27	.128	13	32.3	.45	152	.037	3	1.23	.009	.09	.2	.08	2.5	.2	.13	5
SI 2899862447	3.0	118.8	102.8	364	.1	81.2	47.8	2493	11.02	200.6	1.1	.9	4.6	117	1.3	2.3	.1	113	1.48	.250	52	82.0	2.43	279	.155	7	2.51	.008	.61	.1	.07	11.1	.7	<.05	10
SI 2901162469	1.1	71.0	4.6	101	.1	150.3	57.0	825	6.47	3.2	.9	<.5	2.4	52	.1	.1	.1	114	1.59	.161	13	354.4	3.20	76	.208	2	2.92	.004	.21	.1	.01	4.4	.1	<.05	12
SI 2901662502	.7	18.3	14.5	126	.1	15.7	9.9	548	2.27	7.0	.8	1.9	.6	142	.5	.7	.2	33	3.05	.144	13	21.9	.35	103	.024	3	1.03	.008	.05	.1	.10	1.6	.1	.14	3
RE SI 2904762553	1.6	91.6	10.9	98	.1	161.8	58.8	786	6.02	6.7	.5	<.5	3.2	98	.1	.2	.1	84	2.13	.144	13	271.9	2.77	122	.257	<1	2.62	.012	.50	.2	<.01	3.2	.3	<.05	8
SI 2903662531	1.9	34.6	4.6	82	<.1	140.7	37.2	903	5.43	6.3	.4	1.2	3.1	161	.1	.1	<.1	79	2.47	.320	30	224.3	3.31	284	.184	<1	2.94	.029	.80	.2	<.01	2.5	.2	<.05	8
SI 2904762553	1.5	92.2	10.7	101	.1	164.2	57.7	754	5.91	6.2	.4	<.5	3.1	92	.2	.1	.1	82	2.10	.146	12	262.9	2.73	117	.224	1	2.57	.009	.51	.2	.01	2.7	.3	<.05	9
SI 2905762576	2.4	50.5	5.4	92	.1	63.2	31.4	929	6.01	3.1	.6	<.5	4.5	135	.1	.1	.1	97	1.61	.372	28	106.3	2.75	247	.166	<1	2.85	.009	1.04	.3	.01	2.7	.2	<.05	8
SI 2906462599	1.9	54.2	20.3	109	.2	73.6	28.1	800	6.72	9.3	.6	6.2	7.4	82	.2	.5	.2	76	1.50	.205	21	107.1	2.16	282	.151	1	2.42	.006	.66	.2	.03	3.2	.2	<.05	8
SI 2907462622	2.1	54.2	41.3	119	.1	71.4	40.5	7271	7.06	16.0	1.8	5.4	9.5	19	.9	.8	1.0	59	.39	.058	50	32.1	1.01	377	.042	3	1.99	.007	.13	.1	.07	7.2	.4	<.05	6
SI 2908361253	.8	44.8	7.2	62	.1	17.1	8.5	290	2.55	7.2	.9	3.6	5.3	30	.2	.4	.1	45	.49	.126	20	26.2	.50	137	.066	1	.97	.011	.05	.5	.03	3.0	<.1	<.05	4
SI 2908562647	1.7	76.3	17.3	100	.1	78.7	59.7	>9999	4.43	11.9	.4	9.4	2.3	16	.4	.3	.4	47	1.05	.363	12	31.8	1.32	134	.048	1	1.95	.004	.06	.2	.06	4.3	.1	.06	7
SI 2909061275	.9	135.9	11.9	70	.1	22.9	16.2	652	3.81	12.1	.5	13.6	4.2	32	.2	.4	.2	54	.51	.128	22	29.6	.79	85	.064	<1	1.56	.009	.06	.4	.05	3.7	<.1	<.05	6
SI 2909562669	1.6	165.3	12.4	97	.1	200.5	220.3	>9999	5.61	4.7	.4	22.5	4.9	50	.3	.3	.4	56	.33	.072	29	24.4	1.12	90	.077	<1	1.73	.005	.09	.2	.07	5.5	.1	<.05	8
SI 2910261296	.6	51.3	18.9	70	.1	30.6	18.4	892	4.36	6.4	.3	.5	1.5	24	.3	.2	.2	56	.43	.099	16	39.2	1.06	74	.055	<1	2.01	.006	.05	.1	.03	3.0	<.1	<.05	8
SI 2910562691	1.1	25.9	8.5	53	<.1	21.3	10.6	638	3.34	9.6	.5	2.7	1.9	10	.1	.6	.2	80	.09	.035	11	34.2	.55	64	.086	1	1.50	.004	.05	.2	.04	2.6	.1	<.05	7
SI 2910661318	.6	132.8	31.9	86	.1	34.2	18.5	1289	4.27	4.3	.3	1.5	3.3	32	.2	.2	.4	46	.50	.092	17	36.3	1.17	89	.060	<1	2.21	.006	.05	.2	.03	3.6	<.1	<.05	8
SI 2911561347	.9	81.4	16.9	89	.1	40.2	22.9	934	4.42	9.6	.5	4.5	3.7	36	.4	.4	.2	61	.58	.158	18	64.4	1.15	115	.087	2	2.00	.009	.06	.2	.02	4.5	<.1	<.05	8
SI 2911562714	.9	131.1	15.8	77	.1	64.4	29.2	8551	3.78	6.8	.4	11.6	3.6	14	.3	.4	.2	54	.16	.057	15	33.0	1.01	228	.060	2	1.92	.004	.05	.2	.06	4.1	.1	<.05	5
SI 2911762586	1.0	50.0	101.5	112	.1	34.8	11.2	494	4.57	10.0	3.9	2.1	49.2	14	.2	.7	1.6	48	.09	.040	29	26.8	.53	100	.081	<1	1.66	.007	.07	.3	.03	2.7	.2	<.05	6
SI 2912262486	.4	7.6	4.3	36	<.1	4.6	2.7	223	.60	2.6	.4	1.1	.3	240	.1	.6	.1	4	4.55	.084	5	5.4	.13	37	.008	3	.23	.004	.03	<.1	.06	.4	<.1	.16	<1
SI 2912562735	1.2	37.7	11.0	54	.1	20.5	11.2	1091	3.48	9.4	.5	2.9	1.8	11	.1	.6	.2	82	.13	.042	11	33.4	.57	114	.061	2	1.67	.005	.04	.2	.06	2.9	.1	<.05	7
SI 2913262511	2.0	50.7	6.3	83	<.1	68.8	30.1	888	5.04	2.8	.7	<.5	2.8	198	.1	.3	.1	80	3.25	.255	24	101.4	2.31	332	.180	2	2.17	.033	.62	.2	.02	2.6	.2	.09	6
STANDARD DS4	6.8	127.6	31.5	165	.3	35.7	12.3	824	3.42	23.2	6.3	24.7	3.8	27	5.0	4.8	5.1	78	.55	.096	17	168.7	.62	139	.095	1	1.73	.032	.17	4.0	.29	3.8	1.1	.06	6

GROUP 1DA - 20.0 GM SAMPLE LEACHED WITH 120 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 400 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 27 2002 DATE REPORT MAILED: Dec 11/02 SIGNED BY..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.9	2.8	3.4	46	<.1	8.3	4.3	580	2.11	1.1	1.9	.6	4.5	84	.1	.1	.2	43	.59	.080	9	18.0	.56	246	.150	3	.99	.109	.51	2.9	.01	2.6	.3	<.05	5
SI 2913862760	.6	102.9	6.5	90	.1	45.0	31.8	1764	5.29	4.5	.3	10.4	1.6	31	.2	.3	.1	141	.32	.049	7	64.1	1.67	140	.101	1	2.18	.006	.11	.2	.03	5.8	.3	<.05	8
SI 2914162528	2.1	47.3	4.2	100	.1	102.1	41.8	1099	6.82	2.8	.4	<.5	3.0	144	.1	.1	<.1	120	2.19	.292	21	183.2	3.43	509	.187	<1	3.36	.013	.88	.2	.01	2.7	.2	<.05	10
SI 2914862781	.8	31.4	14.4	78	.1	28.5	14.6	1381	2.89	9.6	.6	5.0	1.0	66	.3	1.3	.2	49	3.48	.091	14	30.1	1.00	114	.024	2	1.04	.005	.04	.3	.06	3.0	.1	.06	3
SI 2915262556	1.8	57.7	7.1	85	.1	97.7	34.2	794	5.78	7.4	.6	1.7	3.3	83	.3	.2	.1	92	1.40	.183	19	171.4	2.38	243	.156	2	2.47	.008	.60	.2	.03	3.0	.2	<.05	8
SI 2916162573	2.4	65.6	33.2	107	.1	57.1	28.9	3890	10.53	7.8	1.5	17.5	4.0	28	.7	.6	.3	65	1.05	.088	22	37.3	1.47	441	.032	2	1.75	.007	.12	.2	.06	7.4	.1	<.05	5
SI 2917562598	4.8	173.6	18.5	72	.1	76.5	88.4	>9999	5.39	35.4	.7	7.4	3.0	27	.6	.6	.4	70	.26	.099	25	38.0	.73	251	.042	<1	2.25	.004	.07	.2	.12	6.1	.1	<.05	7
SI 2918762616	2.0	161.1	16.3	84	.1	103.8	98.5	>9999	4.03	8.4	1.0	19.0	3.1	27	.4	.3	.4	43	.70	.106	15	29.1	.97	100	.040	1	1.57	.003	.05	.2	.07	3.8	.1	<.05	6
SI 2919962639	5.1	203.7	15.9	91	.1	178.9	238.9	>9999	6.43	9.2	.7	15.6	3.5	35	.3	.4	.5	69	.74	.091	18	37.7	1.08	111	.061	<1	1.82	.005	.07	.2	.08	5.9	.1	<.05	9
SI 2920662664	2.6	142.2	11.5	87	.1	163.3	202.9	>9999	6.73	10.6	.5	6.2	3.0	42	.2	.4	.3	65	.87	.109	17	34.2	.97	181	.063	1	1.62	.006	.10	.2	.07	5.1	.2	<.05	7
SI 2921262690	.8	170.8	15.1	99	.1	70.9	49.7	7708	5.24	5.2	.4	19.3	4.3	17	.3	.3	.3	93	.49	.075	14	50.5	1.94	145	.066	3	2.32	.004	.07	.3	.04	8.6	.1	<.05	7
SI 2921762712	.9	162.8	10.2	92	.1	47.2	33.5	4843	3.47	4.8	.4	19.3	2.3	34	.3	.3	.2	59	.98	.092	11	32.4	1.01	145	.051	1	1.43	.007	.05	.2	.04	4.0	.1	<.05	5
SI 2922162736	.8	129.1	14.2	83	.1	41.2	26.6	2694	4.00	6.8	.8	10.0	2.0	37	.3	.5	.2	86	.77	.073	12	47.6	1.32	171	.047	3	1.99	.006	.05	.3	.04	6.4	.1	<.05	6
SI 2932062613	1.9	24.4	10.2	57	.1	32.6	38.3	3531	4.28	9.7	.5	2.2	2.2	10	.2	.6	.3	74	.10	.061	11	32.4	.37	134	.065	2	1.53	.005	.05	.2	.08	2.8	.2	<.05	8
SI 2934161257	1.7	149.7	5.9	60	<.1	11.2	43.3	1309	4.52	13.3	.4	2.0	2.6	34	.2	.5	.1	22	.45	.191	27	10.1	.57	59	.031	<1	1.31	.006	.05	.1	.01	1.8	<.1	<.05	5
SI 2934662613	1.9	26.6	8.4	55	<.1	24.1	21.0	1765	4.02	10.2	.5	2.1	1.7	9	.1	.7	.3	73	.09	.050	12	30.8	.36	69	.061	1	1.42	.005	.05	.2	.07	2.5	.1	<.05	7
SI 2935561283	1.0	20.3	9.8	69	<.1	24.1	10.7	367	2.96	9.8	.5	1.1	2.2	15	.1	.7	.2	55	.17	.041	12	29.7	.55	120	.058	1	1.49	.007	.06	.3	.04	2.7	.1	<.05	5
SI 2936461236	1.4	34.4	9.9	61	<.1	21.5	12.6	699	3.20	10.0	.5	1.1	1.0	13	.2	.6	.2	54	.13	.066	15	27.1	.49	123	.041	<1	1.77	.007	.05	.2	.04	2.4	.1	<.05	6
SI 2936561301	1.4	25.4	9.2	58	.1	18.4	9.4	431	3.45	9.7	.5	.6	.7	16	.2	.7	.2	56	.12	.047	12	26.1	.44	100	.056	<1	1.45	.007	.05	.2	.04	1.7	.1	<.05	6
SI 2937461325	1.2	124.5	14.7	90	.1	66.7	46.7	1548	5.00	10.8	.4	3.7	3.3	44	.5	.5	.1	85	.52	.135	30	135.7	1.57	104	.108	3	2.28	.012	.06	.2	.04	8.4	.1	<.05	9
SI 2937462610	1.2	24.7	10.2	59	<.1	27.0	12.4	1156	2.95	11.1	.6	1.9	3.5	11	.1	.7	.2	56	.12	.061	11	35.5	.47	122	.041	<1	2.48	.007	.04	.2	.05	3.3	.1	<.05	5
SI 2937561276	1.9	89.8	6.1	73	.1	14.8	19.2	858	4.98	7.4	.5	3.6	2.7	47	.1	.4	.1	39	.38	.154	26	20.5	.77	123	.074	<1	1.78	.008	.07	.2	.05	2.7	<.1	<.05	7
SI 2937661251	1.6	71.8	7.9	66	.1	17.4	32.4	1949	3.82	10.2	.4	1.2	1.1	19	.3	.4	.1	31	.14	.087	13	18.4	.48	88	.040	1	1.43	.007	.06	.1	.04	1.9	.1	<.05	5
SI 2938561294	5.1	135.2	4.0	66	.1	5.8	19.0	766	5.24	7.6	.4	.6	3.5	93	.3	.2	<.1	22	.79	.333	35	7.8	.73	195	.068	2	1.76	.007	.13	.1	.01	1.3	<.1	<.05	8
SI 2938661350	1.1	88.0	7.7	77	.1	23.8	14.4	617	3.55	4.3	.6	2.3	2.0	27	.2	.4	.2	44	.37	.121	22	28.7	.79	192	.045	4	1.81	.007	.06	.1	.05	3.6	.1	<.05	7
RE SI 2938661350	1.1	88.6	7.6	76	.1	24.2	15.0	613	3.60	4.3	.6	2.7	2.1	26	.2	.4	.2	45	.37	.111	23	28.2	.76	193	.048	1	1.74	.007	.06	.2	.05	4.1	.1	<.05	6
SI 2939461283	1.4	71.7	12.0	102	<.1	20.0	38.0	1708	5.58	9.7	.4	1.0	3.1	37	.7	.4	.1	46	.50	.210	27	17.4	1.27	116	.097	2	2.44	.006	.06	.2	.03	2.1	<.1	<.05	9
SI 2939561321	.8	81.1	27.4	117	.1	49.7	41.9	1980	6.45	5.5	.3	<.5	4.3	17	.2	.2	.4	70	.31	.054	11	54.4	1.60	114	.154	1	3.38	.004	.06	.2	.02	5.1	.1	<.05	11
SI 2939961266	1.4	24.7	10.2	64	.1	22.0	10.9	503	3.23	11.2	.6	2.1	1.0	13	.2	.7	.2	60	.12	.054	13	32.0	.48	119	.044	2	1.66	.006	.06	.2	.04	2.2	.1	<.05	6
SI 2940761287	1.1	60.0	10.2	95	.1	25.6	22.1	1682	5.11	7.9	.5	3.1	2.2	39	.2	.4	.1	61	.54	.158	26	26.5	1.23	213	.108	1	2.46	.008	.07	.1	.04	3.2	.1	<.05	8
SI 2940761342	.7	168.3	6.7	74	.1	24.8	13.5	640	3.14	4.1	.4	2.6	3.4	21	.1	.4	.2	42	.33	.102	16	25.8	.78	88	.070	1	1.51	.007	.07	.2	.03	3.8	.1	<.05	5
SI 2941262597	1.4	12.7	11.4	52	<.1	19.2	8.9	730	3.39	10.8	.6	1.4	4.0	8	.1	.6	.3	65	.09	.035	13	33.4	.39	89	.045	2	1.87	.005	.04	.2	.06	2.8	.1	<.05	7
SI 2941661366	1.1	54.8	9.0	61	<.1	20.9	9.1	474	3.01	9.0	.5	2.4	1.1	11	.1	.6	.2	59	.10	.039	12	29.2	.48	77	.058	1	1.60	.005	.04	.2	.04	2.4	.1	<.05	6
SI 2942061310	1.4	57.7	18.9	92	<.1	32.0	19.0	1075	4.52	5.5	.4	1.3	1.0	21	.4	.3	.2	85	.32	.140	13	105.3	1.18	92	.110	1	2.00	.005	.04	.1	.06	3.5	.1	<.05	10
SI 2942161253	2.1	35.1	7.7	60	.1	14.9	10.5	632	3.74	9.1	.5	2.1	.6	11	.1	.5	.2	56	.07	.062	13	25.2	.42	93	.052	<1	1.63	.005	.04	.2	.04	1.5	.1	<.05	7
STANDARD DS4	6.9	121.3	31.8	158	.3	35.2	12.0	796	3.28	22.7	6.0	27.0	3.7	27	5.3	4.8	5.3	76	.53	.090	16	164.1	.60	139	.091	1	1.70	.032	.16	3.9	.29	3.8	1.2	.06	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	2.8	2.7	43	<.1	5.1	4.8	575	2.01	.7	1.8	<.5	4.1	93	<.1	<.1	.1	41	.57	.086	9	15.4	.56	266	.151	1	.94	.093	.52	3.0	.01	2.1	.3	<.05	5
SI 2942562620	1.6	15.1	14.6	52	<.1	25.2	10.8	1140	3.29	11.4	.6	3.3	3.1	10	.1	.7	.3	75	.11	.043	13	33.6	.44	132	.063	4	1.90	.005	.05	.2	.05	2.8	.1	<.05	8
SI 2942961275	1.6	34.4	11.6	54	.1	17.1	9.8	348	3.34	11.1	.6	2.2	.7	13	.1	.7	.2	62	.10	.054	14	27.2	.41	110	.042	1	1.68	.005	.04	.2	.04	1.5	.1	.08	7
SI 2942961336	.7	194.1	9.4	85	.1	25.4	14.1	750	3.02	5.5	.6	5.0	3.3	27	.2	.5	.2	45	.36	.096	19	25.9	.66	157	.066	1	1.38	.005	.06	.3	.04	4.5	.1	<.05	5
SI 2943661218	.8	141.1	13.6	98	.1	34.7	22.6	1280	3.49	2.8	.2	1.5	3.0	25	.3	.1	.5	35	.41	.095	14	25.0	1.06	48	.082	2	1.63	.005	.05	.1	.03	3.3	<.1	<.05	6
SI 2943861296	1.0	42.5	14.9	70	.1	25.4	16.6	1036	3.92	7.9	.4	6.7	.8	17	.3	.6	.3	61	.19	.101	13	39.4	.68	118	.066	2	1.96	.006	.05	.2	.07	2.1	.1	<.05	7
SI 2943961357	.8	129.2	10.2	77	<.1	30.8	15.8	1347	3.05	6.0	.4	4.2	1.6	16	.1	.5	.2	47	.17	.065	13	26.8	.79	123	.062	2	1.83	.005	.06	.1	.06	3.0	.1	<.05	6
SI 2944161241	1.2	27.9	19.7	56	.1	20.5	11.2	490	3.92	5.4	.5	.5	.5	10	.1	.4	.2	87	.09	.083	9	40.6	.66	62	.069	3	1.77	.005	.03	.1	.06	2.9	.1	.06	11
SI 2945161323	.7	142.6	13.0	83	.1	25.9	16.3	1335	3.02	5.6	.4	5.1	3.6	30	.3	.5	.2	41	.58	.145	19	24.5	.71	162	.053	3	1.36	.009	.06	.1	.03	5.2	<.1	<.05	5
SI 2945162625	2.5	27.5	12.4	56	.1	52.5	77.7	>9999	6.30	19.3	.4	2.2	.9	31	.2	.4	.3	94	.48	.105	11	33.0	.47	163	.038	1	1.63	.007	.07	.2	.10	3.3	.2	.06	8
SI 2945261263	1.2	30.1	10.8	87	<.1	20.8	18.6	1031	4.19	11.0	.5	6.0	2.0	21	.3	.6	.2	64	.30	.140	17	24.3	.82	117	.079	4	2.02	.008	.05	.2	.03	2.8	.1	<.05	8
SI 2946061343	.6	162.4	8.6	84	.1	30.2	16.0	1173	3.08	5.1	.5	3.5	3.2	26	.2	.4	.2	43	.38	.109	15	25.5	.82	138	.074	1	1.45	.007	.06	.2	.04	3.8	.1	<.05	4
SI 2946561285	.8	178.7	21.4	75	.1	29.5	13.5	739	3.23	7.2	.5	8.0	3.5	25	.1	.5	.3	56	.39	.102	16	37.1	.76	107	.080	3	1.69	.007	.06	.2	.05	4.4	.1	<.05	6
SI 2946962644	1.0	36.7	20.7	112	.1	48.9	24.5	1300	3.86	20.1	.6	13.2	3.8	44	.4	2.5	.2	49	1.25	.138	20	38.9	.57	123	.044	1	1.16	.012	.06	.2	.06	5.3	.1	<.05	3
SI 2947661309	.8	181.6	10.5	79	.1	32.5	17.7	1148	3.30	5.7	.5	3.5	1.9	25	.1	.4	.2	49	.44	.098	15	34.0	.91	120	.076	1	1.80	.007	.06	.2	.04	4.1	.1	<.05	6
SI 2948461335	.4	93.0	8.6	74	.1	27.6	14.0	518	2.94	2.9	.6	1.6	3.4	21	.1	.5	.3	43	.34	.103	18	28.6	.70	122	.047	1	1.59	.009	.05	.1	.03	6.0	.1	<.05	5
SI 2949661355	.6	96.1	8.8	76	.1	29.1	13.9	1483	2.97	4.5	.6	4.6	3.4	24	.2	.4	.2	45	.42	.103	17	30.4	.82	122	.064	1	1.63	.007	.06	.1	.03	4.8	.1	<.05	5
SI 2951361120	.5	215.9	10.2	102	<.1	30.6	16.2	1396	2.52	2.1	.3	4.8	.9	9	.2	.2	.3	31	.17	.080	16	19.8	.97	88	.038	2	1.58	.006	.06	.1	.04	2.6	<.1	.07	4
SI 2952661141	.8	42.9	9.1	85	.1	20.0	10.7	963	2.18	4.0	.5	2.8	.2	12	.3	.4	.2	40	.20	.121	9	22.6	.47	101	.055	1	1.24	.007	.06	.1	.06	1.0	.1	.12	5
SI 2953361160	.8	52.8	9.1	64	.1	15.5	8.8	684	2.33	4.4	.4	2.9	.3	9	.1	.4	.3	43	.08	.070	8	19.3	.43	56	.073	<1	1.24	.010	.04	.2	.05	1.5	.1	<.05	5
SI 2954261187	1.0	110.5	8.6	64	.1	23.9	10.2	668	2.92	9.1	.6	2.7	1.3	13	.1	.8	.2	61	.14	.060	15	29.9	.50	82	.096	<1	1.55	.005	.04	.3	.06	2.1	.1	<.05	6
SI 2955361210	1.1	55.6	9.2	69	<.1	24.8	12.2	710	3.06	6.6	.4	<.5	1.4	11	.1	.4	.2	54	.13	.052	11	30.6	.70	78	.078	<1	1.57	.005	.05	.1	.02	2.5	.1	<.05	6
SI 2956361231	.6	245.1	10.3	84	<.1	37.8	18.9	1849	3.44	4.5	.3	9.0	2.5	13	.2	.4	.3	49	.20	.086	14	30.4	.88	111	.062	1	1.64	.006	.04	.1	.03	4.3	<.1	<.05	5
SI 2957461258	.3	232.0	12.4	101	<.1	40.1	22.7	2141	3.53	1.1	.2	2.5	4.1	16	.4	.2	.5	38	.40	.091	18	26.1	1.44	81	.045	<1	1.85	.006	.05	.1	.03	5.4	<.1	<.05	6
SI 2974061734	.6	50.0	8.3	85	<.1	28.3	14.2	832	3.20	4.8	.4	4.0	.5	7	.2	.3	.3	50	.11	.070	12	28.6	.69	67	.046	1	1.41	.004	.05	.1	.05	1.4	.1	.06	6
RE SI 2974061734	.7	52.0	8.3	87	<.1	28.7	14.7	826	3.25	4.3	.4	2.5	.4	7	.2	.3	.3	52	.11	.071	12	28.5	.70	65	.046	1	1.40	.004	.05	.1	.05	1.4	.1	<.05	6
SI 2975161757	.7	47.9	7.5	83	<.1	28.5	15.0	1007	2.34	3.1	.3	2.2	.4	6	.2	.3	.2	32	.13	.086	10	21.0	.65	49	.059	<1	1.05	.004	.04	.1	.08	1.1	<.1	<.05	5
SI 2976061780	.5	98.8	15.2	118	<.1	39.1	24.3	3885	3.22	2.9	.4	12.4	2.9	16	.4	.5	.7	36	.28	.063	22	16.3	.51	207	.014	<1	1.15	.006	.05	.3	.06	7.9	.1	.09	3
SI 2976961802	.9	267.2	13.0	85	.1	22.3	14.7	2556	2.51	6.3	.5	12.3	.2	11	.3	.5	.3	43	.12	.157	13	22.5	.49	94	.024	<1	1.42	.008	.05	.1	.18	1.1	.1	.09	5
SI 2977761828	.8	73.5	8.4	54	.1	13.7	7.5	564	1.61	3.6	.4	2.6	.1	11	.1	.4	.2	31	.14	.117	7	16.1	.33	61	.022	<1	.76	.007	.04	.1	.14	.6	.1	.11	4
SI 2978461850	.6	116.2	6.7	73	<.1	22.1	11.8	866	2.15	4.0	.4	16.4	.2	14	.2	.3	.2	37	.17	.064	10	18.4	.57	61	.024	<1	1.00	.005	.04	.2	.07	.8	<.1	<.05	4
SI 2979061874	1.0	246.2	25.5	90	.1	39.3	20.7	2170	3.30	5.6	.4	23.3	.8	23	.6	.3	.5	40	.54	.130	17	30.3	.92	128	.029	<1	1.49	.005	.05	.2	.07	2.8	.1	.12	4
SI 2979361902	.9	141.3	9.6	74	.1	40.8	21.1	1821	10.04	3.8	.4	21.1	3.5	37	.2	.2	.2	59	.57	.187	16	49.3	1.18	156	.073	<1	1.28	.006	.14	.3	.04	6.3	.1	<.05	5
SI 2980061927	1.0	187.4	11.2	89	.1	43.4	21.4	2190	3.83	3.3	.4	15.4	.7	26	.2	.2	.3	45	.36	.129	16	44.0	1.07	123	.035	<1	1.60	.005	.06	.2	.11	3.1	.1	.14	5
SI 2980661949	2.1	123.5	8.7	87	.1	57.4	27.7	2899	6.51	4.1	.4	14.1	2.3	34	.3	.2	.2	65	.56	.140	17	64.0	1.40	158	.052	<1	1.69	.005	.05	.2	.04	6.3	.1	.08	6
STANDARD DS4	6.7	126.5	31.3	160	.3	35.4	12.7	837	3.31	23.6	6.5	28.6	3.7	27	5.5	5.1	5.2	78	.52	.102	16	166.7	.61	138	.092	3	1.73	.031	.16	3.9	.27	3.8	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.5	3.3	3.1	45	<.1	5.3	4.3	567	2.07	<.5	1.9	1.2	4.3	93	<.1	<.1	.1	43	.58	.083	9	15.1	.57	255	.145	<1	.96	.115	.55	3.1	.01	2.3	.3	<.05	5
SI 2981161974	1.7	111.0	17.0	104	.1	49.8	20.5	2151	7.16	9.8	.4	11.6	2.1	28	.7	.5	.4	37	.51	.097	17	31.6	.92	117	.024	2	1.35	.007	.05	.2	.07	4.6	.1	.14	4
SI 2981661998	1.9	87.4	18.2	85	.2	47.7	17.7	1331	5.76	16.2	.6	11.4	1.8	42	.5	.7	.3	50	.89	.127	19	36.8	.96	165	.025	4	1.37	.007	.05	.2	.10	4.3	.1	.14	5
SI 2982162020	2.4	97.2	24.1	100	.2	70.1	22.0	950	7.09	17.2	.7	15.4	3.9	23	.5	.7	.4	42	.68	.098	20	36.4	.92	82	.019	4	1.54	.002	.04	.1	.14	5.5	.1	.07	5
SI 2982762047	2.0	95.4	19.2	99	.2	54.4	14.7	431	6.92	15.3	.6	24.0	5.9	17	.5	.6	.5	42	.39	.090	21	37.2	.91	105	.021	5	1.50	.005	.05	.2	.07	6.0	.1	<.05	4
SI 2983462073	2.0	88.3	18.3	95	.1	56.2	16.1	753	7.00	13.1	.6	7.8	5.9	16	.6	.6	.4	46	.36	.085	18	38.6	1.16	114	.014	<1	1.71	.003	.05	.2	.10	5.8	.1	.06	5
SI 2984062097	1.6	76.3	17.2	83	.1	43.0	14.2	1101	6.18	11.2	.6	8.4	5.0	16	.4	.5	.4	41	.34	.083	18	31.1	.88	103	.017	1	1.42	.004	.04	.1	.08	5.0	.1	<.05	4
SI 2984762121	1.4	49.0	20.1	100	.1	52.2	19.5	2595	5.60	10.6	.8	5.5	4.3	35	.6	.7	.3	47	1.74	.097	18	40.3	1.46	131	.031	3	1.48	.005	.05	.1	.03	5.1	.1	<.05	4
SI 2985162144	1.2	56.4	19.7	93	.1	47.5	17.6	1674	4.81	10.8	.9	6.6	3.1	24	.3	.6	.3	48	.61	.101	22	37.4	.95	148	.025	1	1.65	.005	.05	.2	.06	4.5	.1	<.05	4
SI 2985962170	2.8	50.0	28.4	183	.2	46.1	33.7	6842	8.16	16.7	1.1	89.7	4.2	28	1.0	.7	.3	59	.96	.113	27	33.2	1.26	160	.026	3	1.94	.006	.06	.1	.06	7.4	.1	.08	5
SI 2986862193	1.6	38.8	22.5	80	.1	35.6	13.0	1207	4.53	11.2	1.0	32.1	5.8	17	.2	.7	.4	53	.23	.076	27	31.7	.69	129	.036	1	1.71	.006	.05	.2	.06	5.2	.1	<.05	5
SI 2988062215	1.1	33.8	16.6	64	.1	36.7	14.0	1540	4.42	10.0	.8	13.8	5.9	16	.2	.6	.3	52	.23	.052	25	30.2	.67	130	.041	<1	1.62	.009	.07	.2	.05	5.9	.1	<.05	5
SI 2989362236	1.6	23.7	8.1	48	<.1	13.9	17.4	1715	3.54	14.3	.5	1.4	1.5	15	.1	.5	.2	73	.10	.043	12	26.7	.28	78	.049	1	1.48	.004	.06	.1	.04	2.2	.1	<.05	7
SI 2990062259	1.3	17.6	6.9	31	<.1	14.7	17.0	2066	3.71	7.9	.4	1.7	1.9	31	.1	.4	.2	56	.10	.045	12	27.6	.34	77	.050	1	1.24	.004	.06	.2	.03	2.5	.2	<.05	6
SI 2991562282	1.7	56.2	9.9	59	<.1	39.4	21.9	2248	4.85	10.5	.6	7.2	3.5	15	.1	.6	.2	54	.24	.046	20	29.8	.60	103	.050	2	1.58	.007	.05	.2	.06	5.7	.1	<.05	5
SI 2992962305	1.5	20.9	10.4	69	<.1	49.9	48.8	6851	3.56	8.2	.7	4.5	3.0	15	.3	.6	.3	65	.12	.054	15	37.7	.60	123	.079	<1	2.18	.006	.05	.3	.05	4.5	.1	<.05	7
SI 2994162328	1.0	62.3	14.6	69	<.1	38.3	20.7	>9999	2.81	7.8	.7	20.2	2.1	19	.3	.5	.2	50	.21	.062	17	33.0	.88	197	.054	<1	1.93	.005	.04	.1	.09	4.7	.1	<.05	6
SI 2995562349	1.5	10.8	11.4	57	<.1	48.8	23.6	2066	3.51	11.9	.5	4.0	1.7	10	.1	.6	.3	71	.13	.061	11	35.4	.56	95	.079	<1	1.75	.003	.03	.2	.04	2.2	.1	<.05	8
SI 2997262369	1.2	23.6	12.7	68	<.1	45.7	19.1	3326	3.07	8.4	.6	3.9	2.8	11	.2	.6	.3	59	.15	.047	13	32.9	.59	140	.067	<1	1.79	.006	.06	.2	.06	3.1	.1	<.05	6
SI 2998762099	1.6	26.5	15.8	94	.1	79.1	17.4	1860	4.65	15.8	.5	1.6	1.9	63	.4	.6	.2	63	1.81	.113	19	73.5	1.10	150	.024	1	1.92	.008	.05	.4	.05	6.4	.1	.08	6
RE SI 2998762099	1.7	27.9	16.0	91	.1	83.3	17.9	1843	4.60	15.7	.5	4.0	1.7	60	.3	.5	.2	59	1.80	.110	17	73.0	1.08	148	.022	<1	1.92	.007	.04	.5	.04	6.1	.1	<.05	5
SI 3030561506	.8	312.1	8.6	85	.1	29.9	16.6	1168	2.51	5.7	.5	4.0	1.0	31	.2	.4	.2	43	.77	.100	17	28.0	.74	156	.052	2	1.63	.008	.06	.3	.05	3.8	.1	<.05	5
SI 3030861530	.9	175.6	9.0	112	.1	28.4	16.5	1381	3.06	7.0	.6	3.5	1.1	17	.3	.4	.2	55	.22	.111	13	29.5	.63	107	.080	1	1.80	.006	.05	.2	.04	2.7	.1	<.05	6
SI 3031561556	.4	45.8	5.3	83	.1	23.2	15.3	863	2.09	1.8	.3	4.1	.5	12	.2	.2	.2	27	.20	.075	6	17.3	.67	56	.086	<1	1.03	.005	.04	.1	.03	1.6	<.1	.09	4
SI 3032261578	.5	135.0	6.6	81	<.1	24.8	14.1	941	2.53	4.0	.4	3.1	.6	14	.1	.3	.2	42	.25	.087	10	21.6	.61	54	.064	<1	1.09	.005	.04	.2	.05	1.5	<.1	<.05	4
SI 3032561605	.9	70.6	9.2	77	.1	17.4	9.0	536	2.56	7.8	.7	3.4	.2	13	.3	.4	.3	55	.12	.089	10	26.9	.42	84	.035	1	1.60	.006	.05	.1	.07	.8	.1	<.05	6
SI 3033461629	.8	65.5	6.4	109	.1	45.5	19.2	1232	2.86	3.4	.4	2.3	.4	18	.3	.3	.1	47	.28	.085	8	48.7	.95	62	.113	1	1.46	.007	.05	.2	.09	1.8	<.1	<.05	6
SI 3034561654	.9	107.0	7.3	71	.1	17.3	9.3	639	2.61	6.8	.4	6.2	.3	11	.2	.5	.2	56	.15	.072	12	26.0	.41	69	.064	1	1.14	.005	.04	.2	.07	1.1	.1	.06	6
SI 3034761675	1.0	320.2	17.4	106	.2	40.5	22.9	3461	3.31	4.8	.5	22.5	.9	37	.7	.3	.4	35	.70	.189	17	29.5	.86	213	.025	3	1.68	.007	.09	.1	.13	2.6	.1	.14	4
SI 3035561700	1.0	183.3	18.9	99	.1	33.8	19.5	2027	3.22	4.4	.4	8.2	.3	14	.3	.3	.5	45	.20	.118	13	33.7	.82	108	.037	<1	1.71	.006	.05	.1	.09	1.4	.1	.08	6
SI 3036361723	3.6	233.6	15.7	90	.1	62.4	27.6	2940	4.91	7.0	.4	13.7	.7	34	.3	.3	.4	53	.63	.143	20	64.5	1.34	145	.031	<1	2.10	.007	.05	.1	.08	3.2	.1	.07	6
SI 3037261745	4.3	168.7	13.6	92	.1	74.5	30.2	2442	7.28	11.3	.5	15.7	2.2	29	.3	.4	.3	62	.42	.125	22	77.0	1.42	153	.035	<1	1.99	.006	.05	.2	.06	5.5	.1	.08	6
SI 3038761770	3.4	125.5	21.6	124	.2	74.9	25.8	1363	9.95	17.1	.5	9.0	6.6	33	.8	.8	.5	41	.31	.104	20	48.1	.91	89	.015	1	1.48	.029	.07	<.1	.14	5.6	.2	.24	5
SI 3040361795	3.3	121.9	22.7	136	.2	84.3	28.5	1567	9.00	19.0	.5	9.0	4.4	25	.5	.7	.5	38	.45	.109	21	39.5	.99	84	.013	<1	1.55	.008	.06	.1	.09	6.4	.1	.25	4
SI 3041861812	2.4	90.6	20.7	105	.2	59.8	18.3	888	7.18	19.5	.4	10.7	4.5	22	.5	.8	.5	30	.45	.089	18	30.0	.89	64	.007	<1	1.32	.007	.06	.1	.11	4.2	.1	.23	4
STANDARD DS4	6.8	129.0	31.7	165	.3	36.0	12.3	843	3.35	24.3	6.4	26.1	3.8	28	5.4	5.1	5.3	79	.53	.096	17	173.6	.62	141	.093	2	1.73	.033	.16	4.0	.30	3.8	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.5	3.1	2.3	47	<.1	5.3	4.1	568	2.09	.5	2.1	<.5	4.4	93	<.1	<.1	.1	42	.57	.082	10	14.3	.58	241	.155	<1	.99	.103	.51	2.3	<.01	2.4	.3	<.05	5
SI 3043161834	2.1	89.9	15.7	87	.2	63.3	19.3	1271	7.73	14.0	.6	11.3	3.8	21	.3	.6	.3	46	.45	.115	19	54.5	1.10	116	.025	4	1.61	.005	.04	.1	.11	6.9	.1	<.05	5
SI 3044161858	2.6	70.5	21.0	116	.1	65.3	25.1	1116	6.73	20.0	.5	3.3	3.9	20	.7	1.0	.3	44	.11	.086	18	37.7	.61	127	.023	1	1.58	.008	.06	.1	.03	4.5	.1	.08	5
SI 3046161876	2.8	135.0	37.1	279	.3	72.5	42.1	940	6.67	52.1	.6	.9	12.5	40	.5	1.9	.5	18	.29	.128	24	13.1	.40	79	.009	3	1.05	.005	.06	<.1	.11	6.1	.1	<.05	2
SI 3047961895	2.1	81.0	51.7	193	.2	69.5	40.5	1752	5.34	11.4	2.2	1.0	8.7	31	.5	.6	.6	31	.13	.097	28	28.0	.89	97	.019	<1	1.75	.005	.08	.1	.04	2.6	.1	<.05	5
SI 3049861914	1.0	33.7	28.0	92	.2	45.6	17.0	1808	4.12	8.7	1.2	.8	4.0	31	.3	.4	.3	47	.59	.130	30	42.5	1.03	154	.023	2	2.16	.005	.04	.1	.05	5.5	.1	<.05	6
SI 3051961933	1.2	28.8	12.3	73	<.1	33.6	20.3	1987	5.28	10.7	.8	.8	3.2	16	.2	.5	.2	58	.14	.073	17	39.1	.76	191	.041	1	2.29	.006	.06	.2	.03	4.5	.1	<.05	6
SI 3054161949	2.1	98.4	13.9	102	.1	88.5	42.3	4261	7.57	7.5	.6	7.9	4.1	23	1.1	.5	.3	59	.42	.085	30	35.5	1.32	158	.033	3	1.97	.010	.06	.1	.05	7.2	.1	<.05	6
SI 3056461965	1.5	48.7	11.7	51	.1	17.1	21.2	8823	6.68	7.5	.4	84.8	.6	38	.3	.3	.2	36	.18	.104	8	19.7	.29	100	.028	2	1.25	.016	.07	.1	.05	2.8	.1	<.05	5
SI 3059561982	1.9	32.4	10.1	46	<.1	16.4	10.2	617	3.10	7.9	.6	.8	1.1	11	.1	.7	.2	59	.07	.041	11	21.4	.23	70	.047	2	1.45	.009	.04	.2	.03	1.9	.1	<.05	8
SI 3060961998	5.9	82.2	5.9	47	<.1	41.9	50.9	5491	2.76	16.1	.4	1.8	.6	10	.1	.3	.2	42	.08	.050	8	21.7	.26	69	.030	4	1.21	.009	.03	.2	.04	1.5	.1	<.05	6
SI 3061361972	1.9	122.7	12.8	77	.1	56.5	45.0	5778	4.30	12.1	.7	4.1	2.1	17	.4	.7	.2	59	.14	.071	15	38.4	.56	146	.057	2	1.84	.007	.07	.2	.06	4.4	.1	<.05	6
RE SI 3061361972	2.0	120.8	13.1	75	.1	54.1	45.5	5622	4.20	11.7	.7	4.1	2.1	17	.2	.7	.2	57	.13	.074	15	37.2	.55	146	.053	3	1.81	.006	.06	.2	.08	4.2	.1	<.05	6
SI 3062262017	2.0	14.8	10.2	46	<.1	12.9	14.8	1695	4.36	8.8	.4	4.2	2.8	13	.1	.7	.3	67	.09	.034	11	27.1	.28	58	.073	<1	1.34	.006	.04	.2	.03	2.2	.1	<.05	8
SI 3063861982	1.9	198.4	23.2	101	.1	158.6	120.9	>9999	4.11	6.8	.5	4.8	2.5	59	.8	.4	.3	44	.85	.088	20	32.2	1.01	202	.051	3	1.89	.006	.05	.2	.14	6.4	.1	<.05	8
SI 3065561996	1.9	32.3	9.9	62	<.1	34.7	41.0	>9999	9.37	10.8	.8	4.0	3.9	63	.4	.6	.2	64	.26	.082	30	37.1	.63	290	.042	2	2.12	.012	.19	.2	.05	8.6	.1	<.05	7
SI 3068162007	1.6	27.0	8.6	55	<.1	43.3	19.7	3623	2.70	6.9	.5	3.3	2.2	15	.2	.5	.2	53	.17	.063	13	27.2	.52	172	.070	1	1.68	.005	.03	.2	.05	2.8	.1	<.05	7
SI 3070562019	1.5	26.1	10.2	54	<.1	33.9	20.6	2750	3.30	9.6	.6	2.0	2.6	11	.2	.6	.3	62	.11	.048	14	32.7	.48	148	.060	3	1.72	.005	.04	.2	.04	3.1	.1	<.05	7
SI 3072562032	1.2	105.0	8.6	68	<.1	39.3	20.2	2788	2.85	11.0	.7	4.9	3.6	14	.2	.7	.3	50	.20	.051	17	33.5	.55	194	.054	2	1.66	.006	.05	.2	.05	4.4	.1	<.05	5
SI 3074462046	2.1	375.8	18.8	89	.1	127.5	109.0	>9999	4.40	12.0	.6	31.3	2.2	42	.7	.4	.5	51	.44	.112	19	36.7	.94	190	.060	3	1.83	.006	.06	.2	.23	6.6	.1	<.05	7
SI 3076262062	5.4	77.3	27.3	81	.1	45.7	76.8	>9999	9.06	17.3	.9	6.4	4.2	64	.6	.7	.3	80	.16	.064	23	39.3	.71	369	.061	1	2.11	.013	.16	.3	.08	9.9	.2	<.05	8
SI 3078162080	3.0	55.8	14.0	67	.1	67.8	70.5	8608	3.59	8.8	.5	3.5	2.1	25	.1	.5	.3	60	.28	.060	17	38.7	.54	148	.043	2	1.87	.006	.04	.1	.08	4.1	.1	<.05	8
SI 3080162097	1.0	128.3	9.5	64	<.1	62.4	27.3	3940	3.37	6.4	.5	8.6	2.1	9	.1	.4	.2	48	.13	.047	12	29.9	.77	121	.085	1	1.70	.003	.04	.1	.05	3.2	.1	<.05	6
SI 3082262112	1.3	15.3	10.4	60	<.1	37.0	14.9	1583	3.05	8.9	.5	4.8	2.0	8	.1	.6	.2	52	.09	.036	11	29.2	.56	92	.077	3	1.80	.004	.04	.2	.05	2.3	.1	<.05	6
SI 3084462121	.8	76.4	10.0	68	<.1	38.7	16.1	2029	2.81	10.2	.6	7.3	2.3	10	.1	.5	.2	43	.11	.039	11	29.5	.67	122	.067	1	1.71	.005	.05	.2	.06	2.8	.1	<.05	5
SI 3086962130	.6	145.4	10.4	87	<.1	54.4	36.7	6128	2.85	2.7	.2	11.2	3.3	5	.2	.2	.2	29	.23	.035	10	18.2	1.19	63	.206	3	1.19	.002	.05	.1	.07	2.1	<.1	<.05	4
SI 3089562134	1.1	54.7	23.1	99	.1	388.9	216.2	>9999	3.64	6.6	.4	4.1	2.3	39	.5	.3	.2	62	.85	.082	13	30.7	.88	79	.098	1	1.33	.006	.07	.2	.05	4.2	.1	<.05	8
SI 3091662145	4.9	75.6	19.3	39	<.1	23.4	50.8	>9999	10.59	12.4	.7	4.7	2.5	44	.9	.3	.2	47	.14	.065	32	38.5	.46	169	.024	1	1.49	.006	.08	.2	.15	11.3	.1	<.05	6
SI 3094162156	1.2	34.1	8.8	58	.1	24.8	12.1	1474	8.91	6.3	.5	4.6	1.9	40	.2	.5	.2	51	.13	.053	12	37.7	.57	197	.045	3	1.54	.008	.17	.1	.05	4.5	.1	<.05	5
SI 3096262170	.7	23.6	13.0	77	.1	31.2	11.1	489	2.77	12.5	.5	2.4	2.0	58	.3	.6	.2	41	1.14	.055	21	26.9	.57	120	.037	3	1.27	.011	.04	.2	.06	3.8	.1	<.05	4
SI 3135260352	1.3	33.8	10.4	61	<.1	27.0	12.9	304	3.00	10.5	.7	2.0	3.2	10	.1	.5	.2	58	.11	.034	12	41.4	.48	187	.051	2	2.41	.006	.04	.2	.08	3.5	.1	.06	6
SI 3156260208	1.1	30.7	10.9	81	.2	24.8	13.7	496	3.42	11.5	.5	2.7	2.3	13	.2	.5	.2	74	.18	.028	10	44.9	.47	154	.054	<1	1.98	.007	.04	.1	.01	3.3	.1	<.05	7
SI 3174460126	1.1	63.2	8.2	70	.1	36.9	13.2	346	3.33	11.1	.5	4.0	3.6	12	.1	.5	.2	64	.15	.025	12	56.6	.71	164	.075	2	2.08	.007	.05	.2	.03	4.1	.1	<.05	6
SI 3182960285	1.0	54.9	6.5	59	.1	32.1	13.0	357	3.22	8.1	.4	4.0	2.8	10	.1	.5	.2	70	.13	.019	10	58.2	.59	99	.096	3	1.85	.007	.04	.1	.03	3.8	.1	<.05	6
SI 3190360020	1.0	42.3	8.6	57	.1	27.3	10.2	255	2.74	8.7	.5	2.2	3.3	11	.1	.4	.2	58	.13	.019	12	44.9	.61	168	.068	1	1.80	.006	.04	.2	.03	3.5	.1	<.05	5
STANDARD DS4	6.8	128.0	31.4	163	.3	35.7	12.7	792	3.39	23.8	6.3	27.9	3.8	27	5.2	5.1	5.3	77	.53	.098	17	167.2	.61	140	.093	3	1.73	.031	.16	3.9	.29	3.8	1.1	.08	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	2.6	2.5	44	<.1	4.6	4.1	544	2.04	<.5	1.7	<.5	4.1	96	<.1	<.1	.1	39	.55	.082	8	14.8	.55	244	.135	<1	.95	.106	.52	2.6	.01	2.6	.3	<.05	6
SI 3211359897	.9	51.6	5.4	60	.1	41.4	14.8	394	3.11	6.9	.4	4.6	1.9	11	.1	.4	.1	63	.18	.019	8	65.6	.85	113	.096	<1	1.69	.004	.03	.1	02	3.0	.1	<.05	5
SI 3226259810	1.1	60.4	7.2	72	.1	40.1	18.2	589	3.32	8.9	.5	3.4	2.7	16	.2	.5	.2	68	.23	.027	10	64.4	.86	213	.067	1	2.05	.005	.03	2	.03	3.7	.1	<.05	6
SI 3236759411	7.0	60.1	10.3	113	.1	42.3	24.3	4037	4.67	11.0	.4	9.9	1.6	34	.4	1.8	.4	29	1.47	.066	8	22.8	.51	164	.021	2	.91	.005	.04	.1	.05	6.0	.1	.07	3
SI 3240059218	1.6	159.0	13.5	98	<.1	56.3	24.5	2592	5.92	5.9	.5	9.8	8.0	32	.3	.7	.4	55	.54	.105	28	51.1	1.21	261	.025	1	2.44	.006	.10	.1	.04	5.7	.1	<.05	8
SI 3242759593	1.4	88.3	28.7	117	.1	62.5	23.2	1089	4.63	15.9	1.1	5.7	3.0	59	.2	1.2	.3	37	.94	.122	16	43.9	.83	118	.024	2	1.31	.005	.04	.2	.06	4.0	<.1	<.05	4
SI 3246159385	3.6	131.8	9.4	112	<.1	51.0	30.4	5046	4.10	2.2	.3	15.5	5.5	17	.2	.3	.5	34	.52	.090	18	29.9	1.03	85	.038	<1	1.52	.006	.04	.1	.05	6.1	<.1	<.05	6
SI 3249259790	.9	63.8	6.3	71	<.1	37.1	15.8	682	2.88	6.1	.4	9.4	2.7	19	.1	.3	.1	51	.37	.048	10	50.0	.82	181	.068	2	1.68	.008	.04	.2	.03	3.5	.1	<.05	5
SI 3249859162	1.3	105.7	14.6	109	.1	176.6	43.6	925	6.39	6.7	.7	2.8	4.7	147	.2	.4	.1	125	1.70	.197	20	187.0	2.96	108	.166	2	3.01	.005	.28	<.1	.02	8.5	.3	<.05	14
SI 3250159914	.9	78.0	9.1	72	.1	38.3	16.3	655	3.14	6.6	.6	8.9	2.6	20	.2	.4	.2	59	.29	.061	12	55.0	.86	210	.079	1	2.02	.007	.05	.2	.05	4.1	.1	<.05	6
SI 3251959547	1.0	75.8	9.7	53	<.1	19.0	9.2	562	2.69	8.4	.4	4.6	2.9	9	.1	.5	.2	57	.13	.061	10	23.3	.43	69	.062	<1	1.55	.005	.03	.1	.03	2.3	.1	<.05	7
SI 3252659765	1.0	204.1	11.6	92	.1	47.7	24.5	1745	3.78	2.5	.3	17.1	3.9	25	.2	.2	.4	40	.81	.066	19	42.6	1.24	113	.023	1	2.06	.005	.05	.1	.04	5.9	<.1	<.05	6
SI 3253059993	.6	44.6	6.3	67	.1	33.4	15.1	579	2.83	6.8	.5	7.8	3.0	20	.1	.4	.1	58	.33	.052	11	57.3	.82	179	.080	4	1.81	.009	.03	.2	.03	3.6	.1	<.05	5
SI 3253559804	1.3	81.3	10.1	71	.1	104.2	22.8	1282	4.91	6.7	.4	10.2	1.5	81	.4	.5	.2	48	1.88	.084	10	132.7	1.49	257	.031	2	1.62	.006	.04	.1	.06	5.5	.1	.10	5
SI 3255260100	1.0	59.9	8.3	80	.1	42.5	19.7	761	3.49	10.0	.6	8.3	3.0	22	.3	.5	.2	73	.37	.049	12	70.3	.92	252	.080	2	2.29	.011	.05	.2	.04	4.7	.1	<.05	6
SI 3255559356	3.2	75.5	10.0	80	<.1	60.9	47.1	5600	4.12	2.8	.4	20.7	5.2	20	.2	.3	.6	54	.32	.064	32	37.1	.87	288	.086	<1	1.59	.010	.04	.2	.03	6.2	<.1	<.05	7
SI 3255859851	1.3	41.3	6.3	42	.1	61.8	19.5	1101	5.45	2.7	.3	2.2	1.0	45	.1	.3	.2	59	.70	.042	11	91.9	1.03	87	.111	1	1.32	.019	.04	.2	.02	3.2	.1	<.05	7
SI 3256659904	2.4	136.8	17.1	67	.1	35.5	19.5	2711	3.67	3.6	.4	6.3	2.4	57	.1	.3	.5	40	1.38	.077	20	43.1	.70	99	.036	2	1.53	.009	.07	.1	.05	3.4	<.1	<.05	6
SI 3257659943	1.1	141.3	13.3	80	.1	56.6	34.6	4123	3.09	3.9	.3	17.8	1.4	43	.3	.4	.5	31	1.45	.084	15	55.5	.94	110	.016	1	1.55	.008	.07	.1	.07	3.6	.1	.06	5
SI 3258059997	1.6	124.1	7.7	63	.1	58.3	29.6	5616	3.11	4.0	.3	6.8	1.3	23	.3	.4	.2	44	.39	.057	12	80.5	.95	198	.033	2	1.45	.009	.03	.2	.05	3.6	.1	<.05	6
RE SI 3258759116	1.4	73.4	14.7	93	.1	146.1	39.4	1146	5.24	10.5	.6	3.4	3.9	150	.2	.5	.2	115	1.48	.180	16	151.9	2.27	88	.136	2	2.59	.006	.40	.1	.03	6.7	.4	<.05	9
SI 3258759116	1.4	74.2	15.0	97	.1	151.0	40.4	1142	5.43	10.8	.6	1.4	4.1	145	.2	.5	.2	118	1.48	.187	17	155.0	2.34	89	.140	3	2.71	.007	.39	.1	<.01	7.1	.4	<.05	11
SI 3258859796	1.6	89.3	11.1	80	.1	158.6	31.0	1333	5.82	8.9	.5	8.8	1.7	64	.5	.6	.2	59	1.36	.093	12	186.7	1.68	203	.023	1	1.68	.005	.03	.1	.06	6.3	.1	.07	6
SI 3259360181	1.2	58.0	8.7	72	.1	30.7	17.8	849	2.94	8.2	.6	6.1	2.7	15	.2	.6	.2	59	.21	.058	11	40.2	.72	159	.069	3	1.82	.007	.04	.3	<.01	3.0	.1	<.05	5
SI 3260060051	1.6	140.1	7.9	56	.1	92.4	37.2	5866	2.84	2.7	.3	4.4	.7	50	.2	.2	.2	41	1.29	.074	6	147.0	1.52	238	.033	2	1.67	.013	.03	.2	.06	2.6	.1	<.05	6
SI 3261960096	.5	175.1	4.8	49	.1	19.2	10.7	818	1.94	2.8	.2	22.2	1.7	12	.1	.2	.1	30	.23	.056	7	18.1	.57	54	.069	4	1.30	.016	.03	.2	.02	2.5	<.1	<.05	4
SI 3262859526	.9	176.1	8.1	70	<.1	38.1	15.3	881	3.02	8.4	.4	5.7	3.5	15	.1	.5	.2	54	.22	.049	10	33.1	.68	117	.092	3	2.34	.008	.04	.2	<.01	3.8	.1	<.05	5
SI 3262960282	1.3	51.6	9.3	66	.1	25.3	13.8	734	2.66	7.9	.6	5.7	1.6	14	.2	.5	.2	54	.17	.076	11	34.2	.65	162	.049	4	1.76	.008	.04	.2	.03	3.3	.1	<.05	5
SI 3264860160	.8	33.1	5.8	33	.1	12.7	6.6	1311	1.18	1.1	.2	.7	.4	7	.1	.1	.1	26	.19	.037	3	19.8	.34	29	.058	2	.67	.010	.04	.2	.01	.8	.1	<.05	4
SI 3265159320	2.4	196.5	8.0	67	.1	37.2	24.1	3836	2.82	3.1	.3	24.5	4.2	17	.1	.3	1.3	40	.33	.086	17	29.1	.61	174	.075	3	1.35	.008	.04	.1	.01	3.3	.1	<.05	6
SI 3266860181	1.3	62.9	6.3	47	<.1	23.4	9.6	714	2.04	3.2	.3	3.3	.9	10	.1	.2	.2	48	.14	.053	6	36.8	.54	29	.099	2	1.06	.008	.03	.2	.02	1.7	<.1	<.05	5
SI 3268959797	1.5	69.9	10.9	66	.1	96.7	21.3	1015	4.49	7.4	.5	5.8	1.0	59	.3	.8	.2	47	1.38	.081	8	164.7	1.27	320	.019	2	1.56	.007	.03	.1	.05	5.1	.1	<.05	5
SI 3269159098	1.7	86.2	24.3	106	.1	145.4	39.0	1339	5.90	22.8	.7	1.8	7.1	46	.2	2.4	.3	98	.41	.124	24	124.6	1.63	111	.059	1	2.52	.008	.15	.1	.02	9.0	.2	<.05	8
SI 3269260244	1.8	170.3	6.6	62	.1	36.5	25.2	2405	1.88	3.9	.5	11.8	.6	39	.2	.3	.2	29	1.33	.094	16	38.4	.67	77	.015	6	1.37	.006	.03	.1	.06	2.5	<.1	.11	4
SI 3271860273	.6	156.8	7.8	90	<.1	47.0	25.2	2213	3.26	3.8	.4	9.7	3.0	19	.1	.2	.2	43	.44	.065	14	39.3	1.24	82	.081	2	1.89	.007	.04	.2	.02	4.3	.1	<.05	6
STANDARD DS4	6.8	121.4	31.9	159	.3	34.8	12.4	795	3.29	23.3	6.2	26.0	3.6	27	5.3	5.0	5.2	75	.54	.095	15	161.8	.59	140	.081	2	1.67	.030	.15	4.2	.28	3.7	1.2	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.9	2.9	2.8	42	<.1	6.2	4.3	548	2.00	.7	1.7	<.5	4.4	96	.1	<.1	.1	41	.58	.082	7	16.1	.55	249	.138	5	1.03	.120	.53	2.3	.01	2.8	.3	.06	5
SI 3272359511	1.4	164.6	9.3	67	.1	34.7	14.4	1809	3.05	10.1	.6	5.8	4.1	12	.2	.6	.3	48	.19	.055	13	33.6	.56	107	.069	3	1.92	.012	.04	.2	.05	4.1	.1	<.05	5
SI 3274759288	1.1	88.4	24.8	112	.1	166.2	38.9	827	5.32	11.7	.6	2.5	6.5	98	.2	1.1	.3	102	.89	.110	12	178.2	2.35	51	.080	4	2.55	.005	.14	<.1	.02	7.1	.2	.08	9
SI 3275260322	10.2	265.3	26.3	122	.1	94.7	43.6	4327	6.57	26.2	.7	15.5	7.7	28	.7	.7	.6	40	.33	.094	24	50.6	1.04	102	.030	4	1.87	.002	.05	.2	.02	4.6	.1	<.05	6
SI 3277659074	1.0	36.4	13.2	65	.1	54.7	17.1	470	3.53	12.8	.4	1.3	5.1	15	<.1	.9	.2	58	.15	.036	16	59.4	.90	114	.028	2	1.86	.005	.05	.1	.01	4.2	.1	<.05	6
SI 3278759781	1.7	86.9	15.1	81	.2	170.2	31.4	800	5.25	12.3	.5	7.8	2.5	59	.4	.7	.3	58	1.20	.081	10	199.9	1.63	219	.019	3	1.71	.005	.03	.1	.05	6.8	.1	.08	6
SI 3282459507	3.0	63.8	16.1	54	.1	38.8	16.2	1307	3.35	9.8	.7	2.4	3.2	15	.1	.6	.3	55	.17	.031	11	47.9	.52	149	.042	4	1.93	.008	.03	.2	.02	3.4	.1	<.05	6
SI 3284159257	1.3	99.0	17.6	105	.1	249.0	48.1	918	5.88	19.7	.6	1.0	5.0	107	.1	1.4	.2	119	1.25	.135	16	288.7	3.06	67	.157	4	2.70	.006	.32	.1	.01	11.5	.4	<.05	10
SI 3287059042	1.0	46.1	17.0	64	<.1	58.6	16.1	361	3.20	11.3	.6	3.3	7.0	14	.1	.5	.2	61	.14	.020	16	59.9	.86	141	.059	4	1.99	.007	.07	.1	.02	4.4	.1	<.05	5
SI 3289059767	1.2	35.2	10.7	63	.1	166.3	27.0	555	3.97	9.9	.5	4.1	2.4	27	.2	.5	.2	48	.25	.046	11	194.3	.93	131	.013	3	1.62	.008	.03	.1	.03	5.0	.1	<.05	5
SI 3292859499	1.6	24.1	11.0	37	.1	18.9	8.9	859	3.05	7.8	.3	<.5	1.8	13	.1	1.0	.2	50	.14	.026	8	22.6	.30	214	.028	1	1.21	.012	.03	.2	.02	2.2	.1	<.05	6
SI 3292960014	1.7	117.4	9.4	77	.2	122.1	26.0	2616	6.76	4.2	.3	4.1	1.8	47	.2	.3	.2	82	.95	.104	15	166.9	2.32	263	.047	3	2.62	.009	.05	.1	.07	10.9	.1	<.05	8
SI 3293959228	1.1	59.4	22.1	87	.1	90.8	25.5	836	4.02	5.9	.6	2.2	1.9	114	.1	.9	.2	75	1.24	.100	16	89.0	1.27	80	.037	2	2.14	.009	.08	.1	.04	4.8	.1	.09	7
SI 3295660042	.5	5.1	1.8	14	<.1	3.5	1.2	199	.70	1.0	.1	2.1	<.1	5	.1	.1	.1	18	.05	.028	2	7.2	.04	25	.013	2	.17	.021	.02	<.1	.02	.4	<.1	<.05	2
SI 3296659006	1.6	164.3	30.2	99	.1	246.5	52.5	599	6.98	7.9	1.0	4.9	9.3	29	.1	.2	.4	131	.29	.060	18	307.7	3.39	79	.224	1	3.69	.004	.12	<.1	.01	9.3	.2	<.05	12
SI 3297660090	1.8	120.3	6.0	41	<.1	43.5	53.9	4948	1.99	3.6	.2	5.9	1.0	12	.1	.2	.3	27	.18	.059	16	22.7	.35	43	.018	1	.84	.010	.03	.1	.04	2.8	<.1	<.05	3
SI 3298359748	1.9	61.3	30.3	105	.1	45.0	15.5	451	5.84	27.0	.4	9.7	3.0	16	.3	2.2	.4	32	.26	.048	11	22.6	.46	92	.013	1	1.20	.010	.05	.1	.04	3.2	.1	<.05	4
RE SI 3303359191	1.3	120.3	28.0	98	.1	185.9	45.5	859	5.86	10.2	.7	1.0	7.5	68	.2	.5	.3	108	.78	.099	23	222.6	2.56	60	.143	3	2.64	.004	.27	.1	.02	8.8	.3	<.05	9
SI 3300160138	5.0	226.1	10.0	52	.1	22.0	10.3	1595	2.18	2.9	.4	5.2	.8	10	.1	.2	.4	40	.17	.066	9	35.3	.52	73	.048	<1	1.35	.009	.02	.1	.04	2.0	.1	<.05	5
SI 3302759481	1.2	66.2	13.3	93	.2	103.7	23.3	764	4.61	12.0	1.0	6.4	1.7	107	.4	.9	.3	53	1.71	.075	11	102.2	1.25	63	.043	3	1.56	.007	.05	.1	.05	4.4	.1	.19	5
SI 3303359191	1.3	121.0	28.2	102	.1	194.6	46.3	858	5.95	10.4	.7	2.6	7.3	69	.1	.5	.3	110	.79	.101	22	227.6	2.56	60	.144	<1	2.69	.008	.27	<.1	.01	8.9	.2	.07	10
SI 3305360161	.7	29.7	8.1	45	.1	18.2	13.3	2430	1.47	7.9	.3	4.9	.4	6	.1	.2	.2	31	.07	.054	11	17.0	.23	62	.069	1	.78	.008	.02	.2	.02	1.1	.1	.07	4
SI 3307258974	1.0	91.4	15.9	94	.1	287.5	48.3	965	6.23	6.0	.6	2.2	5.2	82	.1	.1	.2	151	1.11	.121	21	377.0	3.77	94	.226	<1	3.24	.006	.30	.1	.01	12.7	.4	<.05	12
SI 3309059710	1.7	47.4	23.7	83	.1	41.5	14.4	460	4.63	13.6	1.0	6.4	4.8	12	.4	.8	.4	48	.08	.043	14	30.8	.53	128	.031	<1	1.74	.006	.05	.1	.01	3.5	.1	<.05	5
SI 3310060134	1.2	32.3	7.4	37	.1	22.7	18.2	2248	1.51	6.4	.4	6.1	.5	19	.1	.3	.2	30	.67	.056	18	16.4	.27	63	.049	<1	.96	.009	.03	.1	.05	1.7	.1	.08	4
SI 3312259461	3.3	82.8	25.7	115	.3	80.0	21.5	572	7.14	33.5	.8	21.4	3.9	61	.4	1.7	.5	41	.80	.080	13	47.4	.82	83	.023	<1	1.32	.009	.05	.1	.10	5.1	.1	.14	5
SI 3312659161	1.1	134.7	28.5	123	.2	195.2	45.4	1252	6.95	27.2	.8	2.1	9.1	66	.3	1.2	.3	92	.81	.099	28	214.6	2.73	54	.055	<1	3.20	.004	.14	<.1	.01	8.8	.2	<.05	10
SI 3313860108	1.2	32.7	10.2	74	.1	42.4	36.8	5353	2.13	12.7	.4	11.9	.6	22	.2	.3	.3	27	.69	.112	18	22.0	.46	73	.017	1	.88	.009	.04	.2	.05	1.9	<.1	.10	4
SI 3317959677	2.6	63.1	22.7	109	.2	57.3	19.6	487	5.80	15.9	.7	9.1	3.8	11	.7	3.5	.4	44	.04	.051	11	32.5	.51	58	.028	2	1.27	.018	.06	.1	.02	3.1	.1	.07	5
SI 3318760089	3.9	135.7	8.3	68	.1	54.0	51.0	3267	2.68	12.2	.5	13.7	.9	19	<.1	.3	.3	34	.59	.092	38	30.0	.62	57	.019	2	1.35	.008	.04	.2	.05	3.2	<.1	.08	4
SI 3322059440	1.2	60.7	14.6	86	.1	101.5	27.0	721	4.38	7.4	1.4	2.4	3.6	124	.1	.4	.2	91	1.46	.069	16	128.6	1.82	93	.156	1	2.18	.008	.08	.1	.04	7.0	.1	.12	9
SI 3323160064	1.0	37.8	7.9	83	.1	57.6	38.9	6992	2.78	9.8	.4	14.4	1.9	24	.1	.3	.2	33	.63	.088	27	25.9	.72	94	.034	2	1.12	.008	.05	.1	.04	5.0	.1	<.05	4
SI 3326759636	3.4	52.7	17.6	91	.1	77.1	24.2	1155	4.54	19.1	.7	3.7	2.7	28	.4	1.4	.3	57	.30	.060	14	54.4	.73	148	.028	1	1.65	.007	.05	.1	.02	4.7	.1	<.05	6
SI 3327660042	.9	25.9	6.5	49	.1	17.0	11.5	1705	1.85	6.3	.5	4.3	.6	15	.1	.3	.2	37	.24	.056	12	21.7	.31	103	.030	<1	1.16	.010	.03	.1	.03	1.7	.1	<.05	5
SI 3333160029	1.2	44.1	7.7	79	.1	35.7	25.2	3308	3.31	10.2	.6	8.9	2.3	20	.1	.5	.2	53	.34	.081	15	37.1	.73	162	.060	2	1.57	.022	.05	.2	.02	3.5	.1	<.05	5
STANDARD DS4	6.8	120.1	32.0	160	.3	33.1	11.9	794	3.23	23.3	6.1	29.0	3.9	27	5.4	5.0	5.2	73	.54	.089	16	161.2	.58	139	.087	2	1.69	.030	.16	3.9	.26	3.7	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.5	3.3	2.5	49	<.1	5.7	4.2	590	2.14	<.5	1.8	.6	4.4	92	<.1	<.1	.1	44	.63	.081	9	15.2	.60	259	.151	2	1.14	.121	.56	3.1	<.01	2.9	.3	<.05	6
SXA 250000	1.9	63.7	15.5	66	.2	68.0	22.5	2162	9.15	19.6	.6	89.2	2.6	61	.5	.7	.2	72	.82	.116	16	73.7	1.19	566	.027	2	1.79	.015	.13	.1	.02	8.0	.2	.11	6
SXA 250100	2.5	57.9	15.7	76	<.1	49.5	23.0	1944	6.70	18.2	.6	10.7	4.1	20	.3	.6	.2	66	.24	.044	18	61.4	.79	248	.039	<1	2.11	.008	.06	.2	.01	6.8	.2	<.05	6
SXA 250200	.7	79.4	6.0	56	.1	36.3	13.9	485	2.91	7.9	.7	3.5	2.2	13	.1	.4	.1	56	.21	.050	13	53.9	.75	168	.056	<1	1.81	.004	.04	.2	.02	3.6	.1	<.05	5
SXA 250300	.7	87.6	5.4	59	<.1	43.9	15.5	462	3.09	7.4	.5	3.3	3.3	13	.1	.5	.1	62	.23	.047	11	63.9	.81	103	.087	1	1.83	.011	.04	.3	.01	3.4	.1	<.05	5
SXA 250400	.8	78.2	6.5	62	.1	48.6	19.4	555	3.54	9.3	.6	4.0	2.8	12	.1	.5	.1	69	.19	.042	10	67.7	.79	112	.070	<1	2.26	.007	.05	.3	.03	4.4	.1	<.05	5
SXA 250500	.6	144.1	4.9	59	<.1	61.8	21.9	657	3.28	7.1	.6	3.0	3.1	13	.1	.4	.1	66	.29	.031	11	81.3	1.02	130	.079	2	1.83	.008	.03	.2	.01	8.1	.1	<.05	4
SXA 250600	.7	98.0	5.9	63	.1	40.5	16.1	457	3.19	7.0	.5	6.8	2.9	14	.2	.5	.1	67	.25	.051	12	66.1	.89	103	.102	<1	1.82	.007	.05	.3	.02	3.2	.1	<.05	5
SXA 250700	.8	123.6	6.1	71	.1	43.4	19.4	723	4.12	6.7	.4	4.9	1.8	12	.2	.4	.2	80	.28	.045	10	77.4	1.10	121	.098	<1	2.08	.007	.06	.3	.01	3.9	.1	<.05	7
SXA 250800	.6	249.1	4.4	67	.1	54.0	23.0	647	3.88	5.9	.4	2.8	1.9	12	.1	.3	.1	80	.34	.049	8	89.5	1.32	117	.102	1	2.15	.007	.03	.2	<.01	5.2	.1	<.05	5
SXA 250890	.2	276.1	5.0	98	.1	121.2	44.6	1473	5.92	1.4	.2	133.5	1.5	18	.4	.2	.2	110	.65	.066	8	239.0	3.19	65	.170	3	3.36	.011	.06	.2	.03	12.1	.1	<.05	8
SXA 2501000	.4	181.4	8.0	90	.1	43.5	21.5	1229	3.37	2.9	.3	10.3	2.0	14	.2	.2	.2	42	.47	.075	13	46.9	1.14	81	.077	2	1.70	.005	.05	.2	.02	3.6	<.1	<.05	5
SXA 2501100	.5	259.1	11.7	104	<.1	32.0	17.8	2417	2.79	3.1	.3	20.1	1.3	12	.3	.2	.4	33	.27	.115	15	20.7	.91	97	.032	2	1.63	.005	.05	.1	.02	2.8	<.1	<.05	4
SXA 2501200	1.4	55.8	9.5	62	.1	19.5	11.6	705	3.23	7.6	.6	5.3	1.1	12	.1	.5	.2	55	.13	.058	13	30.0	.62	85	.069	2	1.85	.011	.05	.2	.04	2.2	.1	<.05	6
SXA 750000	.9	64.2	6.6	57	<.1	32.5	12.4	364	3.04	7.1	.5	2.0	1.2	12	.2	.4	.1	62	.24	.049	12	61.9	.69	107	.072	<1	1.70	.007	.04	.2	.03	2.7	.1	<.05	5
SXA 750100	.5	35.3	6.5	36	.1	17.0	6.8	229	2.02	4.8	.4	2.8	.8	10	.1	.3	.1	48	.16	.029	10	37.7	.37	104	.061	1	1.28	.012	.02	.2	.01	2.1	.1	<.05	4
RE SXA 750100	.5	34.8	6.3	37	<.1	18.4	6.3	231	1.99	4.8	.5	.9	.8	10	.1	.2	.1	48	.16	.028	9	36.7	.38	104	.058	3	1.22	.010	.02	.2	.02	2.1	.1	<.05	5
SXA 750200	.3	111.0	5.4	94	.1	48.9	24.2	1049	3.15	3.2	.3	6.4	1.4	16	.2	.2	.2	50	.54	.067	7	74.3	1.22	100	.073	1	1.62	.007	.04	.2	.02	3.7	<.1	.06	4
SXA 750300	.6	74.2	5.7	66	.1	41.7	16.7	526	2.89	5.9	.5	20.9	1.4	14	.1	.3	.1	57	.32	.047	9	74.7	.96	118	.056	3	1.76	.006	.03	.1	.01	3.3	.1	<.05	5
SXA 750400	.6	90.5	5.8	49	.1	30.6	13.9	669	2.43	5.0	.5	3.0	.6	14	.1	.3	.1	51	.56	.050	8	61.3	.66	112	.039	4	1.67	.013	.02	.1	.02	2.3	.1	<.05	4
SXA 750500	.6	85.2	5.9	59	.1	33.2	16.9	531	2.84	7.2	.6	7.1	2.0	12	.1	.4	.1	60	.22	.054	12	64.2	.79	100	.071	3	1.67	.006	.04	.3	.03	3.1	.1	<.05	5
SXA 750600	.7	80.6	6.7	63	.1	32.4	13.2	410	2.72	9.0	.6	5.0	1.5	12	.2	.5	.1	56	.18	.056	12	61.5	.71	141	.064	<1	1.76	.006	.04	.3	.03	3.2	.1	<.05	5
SXA 750700	.8	63.3	6.6	58	.1	31.9	14.8	514	3.45	8.3	.5	4.3	1.7	13	.2	.5	.2	72	.17	.053	11	72.4	.62	109	.091	2	1.60	.007	.04	.2	.04	3.0	.1	<.05	6
SXA 750800	.6	142.5	8.5	73	.1	60.1	24.2	962	3.23	7.3	.4	4.2	.9	14	.4	.6	.2	66	.42	.079	9	103.7	1.00	141	.050	2	1.95	.014	.05	.2	.04	3.9	.1	.07	5
SXA 750900	1.0	87.8	8.0	89	.1	51.8	25.3	1019	3.82	5.9	.4	5.9	.7	15	.6	.5	.2	80	.46	.088	8	115.4	.91	172	.065	1	1.87	.008	.05	.1	.03	3.1	.1	.11	6
SXA 7501000A	.7	174.5	9.0	73	.1	30.7	14.0	1319	2.80	6.0	.6	11.2	1.4	14	.1	.4	.3	46	.17	.067	14	28.8	.68	113	.050	2	1.72	.006	.06	.2	.02	3.4	.1	<.05	4
SXA 7501000B	.7	86.4	8.4	82	.1	37.3	19.6	1086	3.08	4.3	.4	3.3	1.1	15	.2	.4	.3	57	.22	.060	9	50.5	.88	107	.081	3	1.62	.005	.05	.2	.03	2.6	.1	<.05	5
SXA 7501200	.7	93.2	8.2	70	.1	24.7	12.5	601	2.80	5.2	.7	9.1	1.6	16	.1	.4	.2	57	.19	.059	16	29.6	.59	82	.079	3	1.38	.005	.04	.4	.04	2.5	<.1	.06	5
SXB 000000	.7	185.9	5.3	71	.1	105.0	43.1	1055	4.64	8.8	.4	2.8	1.9	15	.1	.3	.1	88	.27	.034	7	160.6	1.74	211	.143	3	2.74	.007	.03	.1	.03	5.8	.2	<.05	5
SXB 000050	.3	281.4	1.3	75	.1	151.9	57.7	1213	5.23	5.1	.1	3.4	.5	21	.2	.3	<.1	85	.67	.028	2	235.2	2.27	510	.174	2	2.82	.007	.02	.1	.02	5.7	.2	<.05	4
SXB 000100	.3	254.3	2.8	76	.1	140.6	48.0	947	4.59	5.2	.2	3.5	.6	42	.1	.2	.1	78	.66	.031	3	208.4	1.69	309	.121	3	2.50	.008	.03	.1	.03	5.1	.2	<.05	4
SXB 000150	.1	249.7	.5	80	.1	141.9	54.5	1122	5.04	2.2	.1	9.8	.2	62	.2	.1	<.1	93	1.33	.022	1	227.9	2.28	769	.182	2	2.78	.005	.01	.1	<.01	6.7	.2	<.05	4
SXB 000200	.2	270.9	1.0	87	.1	143.5	50.9	1242	5.16	2.1	.1	5.7	.3	195	.3	.1	<.1	95	.81	.022	2	237.1	2.19	187	.187	3	2.84	.004	.01	.1	.02	6.4	.1	<.05	4
SXB 000250	.2	252.0	.6	78	.1	137.0	44.9	1079	4.91	2.1	.1	2.9	.3	316	.2	.1	<.1	82	.84	.028	1	215.5	2.25	165	.164	1	2.79	.006	.02	.1	.02	5.4	.1	<.05	4
SXB 000300	.4	168.5	3.9	74	.1	87.6	39.2	985	4.83	6.4	.2	3.3	.7	19	.2	.2	<.1	107	.42	.040	3	199.6	1.78	169	.228	2	2.66	.007	.01	.1	.03	5.1	.1	<.05	5
STANDARD DS4	6.7	127.6	31.1	158	.3	35.3	11.8	806	3.29	23.1	6.0	26.6	3.6	27	5.3	5.1	5.0	78	.54	.087	17	165.5	.59	141	.089	2	1.73	.032	.16	4.0	.27	3.7	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	2.7	2.6	44	<.1	5.1	4.2	550	2.04	<.5	1.8	.8	4.2	99	<.1	<.1	.1	41	.58	.083	9	15.0	.55	249	.151	<1	1.05	.109	.56	2.9	<.01	2.6	.3	<.05	6
SXB 000350	.6	134.1	5.0	78	.1	81.1	35.9	975	5.49	6.1	.2	4.1	1.3	14	.1	.4	.1	124	.38	.034	5	166.0	1.90	83	.221	2	3.00	.005	.02	.2	.01	8.0	.1	<.05	7
SXB 000400	.7	173.3	6.0	78	.1	67.2	30.8	766	4.92	8.8	.3	4.1	2.5	10	.1	.4	.1	103	.23	.037	8	90.2	1.47	77	.167	3	2.81	.006	.05	.2	.01	6.1	.1	<.05	6
SXB 000450	.5	193.1	7.6	85	.1	141.7	54.6	1086	5.83	10.1	.3	10.4	1.6	12	.1	.4	.1	132	.42	.034	7	171.1	2.29	122	.119	2	3.33	.002	.03	.1	.03	10.9	.1	<.05	7
SXB 000485	.1	214.4	1.3	94	.1	164.9	63.6	1406	7.78	9.3	.1	6.5	.7	12	<.1	.2	<.1	175	1.09	.032	3	364.1	5.22	16	.170	3	4.79	.009	.02	.1	.01	21.2	<.1	<.05	8
SXB 100010	.3	285.2	4.1	84	.1	165.7	64.4	1495	5.66	7.6	.1	3.3	.5	17	.2	.3	.1	98	.85	.036	2	220.8	2.57	1305	.130	1	3.02	.008	.02	.1	<.01	7.9	.1	<.05	6
SXB 100050	.2	170.5	1.6	62	<.1	111.5	41.8	1178	4.20	3.7	.1	4.5	.3	40	.2	.1	<.1	68	.54	.028	1	191.3	1.80	379	.221	3	2.68	.004	.01	.1	.02	4.9	.1	<.05	3
SXB 100090	.9	70.9	6.9	67	<.1	67.1	24.0	508	3.84	9.7	.6	3.7	3.8	21	.2	.6	.2	69	.21	.028	9	105.4	1.11	158	.102	<1	2.98	.005	.04	.2	.04	4.3	.2	<.05	5
SXB 100150	.1	398.0	.8	70	.1	117.0	51.5	1181	4.47	1.3	.1	6.0	.1	25	.3	.1	<.1	85	.78	.039	1	243.6	1.86	4218	.133	2	2.77	.009	.03	<.1	.03	6.1	.2	<.05	4
SXB 100200	.2	245.9	1.0	95	.1	155.5	65.2	1481	7.19	3.6	.3	19.4	.7	130	.1	.5	<.1	162	1.69	.025	1	271.2	3.23	539	.208	5	3.86	.005	.05	.3	.01	16.5	.1	<.05	8
SXB 100250	.5	248.3	2.2	82	.1	152.9	63.9	1315	4.60	3.1	.2	1.1	.7	221	.4	.2	<.1	71	.76	.057	4	168.2	1.65	103	.105	2	2.71	.005	.02	.1	.02	4.8	.1	<.05	3
SXB 100300	.1	286.1	.9	86	.1	143.3	53.6	1057	5.65	3.2	.1	7.0	.1	304	.3	.2	<.1	107	.90	.028	1	262.7	3.01	985	.202	1	3.28	.005	.03	.1	.01	7.3	.1	<.05	5
SXB 100360	.3	168.1	3.3	77	.1	96.2	42.5	829	4.35	4.9	.1	1.9	.5	60	.2	.2	<.1	84	.50	.034	2	193.7	2.19	100	.215	1	2.75	.005	.02	.1	.01	4.2	.1	<.05	4
SXB 100400	.4	192.9	2.5	79	.1	105.6	49.7	914	4.74	7.7	.2	1.1	.7	20	.3	.3	<.1	88	.40	.050	2	216.7	1.97	79	.206	2	2.96	.011	.02	.1	.03	4.8	.1	<.05	4
SXB 100450	.8	62.5	3.4	83	.1	60.8	30.6	799	4.57	5.0	.2	3.3	.8	16	.2	.2	.1	99	.45	.052	3	158.2	1.30	79	.273	4	2.19	.006	.04	.1	.01	3.6	.1	<.05	6
SXB 100500	.2	261.0	1.2	81	<.1	178.2	75.8	2301	8.52	7.9	.1	11.9	1.1	23	.1	.3	.2	191	.55	.031	4	400.9	4.42	62	.205	1	4.50	.003	.03	.1	<.01	23.9	<.1	<.05	10
SXB 200000	.3	329.2	8.9	105	.1	178.9	61.0	1421	5.92	5.7	.1	6.6	.3	22	.1	.2	<.1	114	.51	.029	1	278.6	3.22	443	.202	1	3.59	.006	.03	.1	.01	7.0	.1	<.05	6
SXB 200050	.8	77.6	6.2	64	.1	70.9	22.4	466	3.79	8.2	.3	1.9	2.4	14	.1	.4	.1	70	.21	.022	7	107.6	1.11	138	.133	2	2.61	.023	.04	.1	.03	3.7	.1	<.05	5
SXB 200100	.7	102.7	5.2	54	.1	74.9	25.0	611	3.66	7.5	.3	3.2	1.8	31	.1	.4	.2	73	.23	.031	6	124.5	1.08	215	.121	1	2.33	.007	.03	.2	.01	4.1	.1	<.05	6
SXB 200150	.7	114.1	3.9	62	.1	86.5	29.7	631	4.24	7.2	.2	1.5	1.8	27	.2	.4	.1	82	.21	.025	5	153.0	1.62	173	.256	5	2.89	.010	.02	.2	.02	3.8	.1	<.05	5
SXB 200200	.6	99.7	4.4	64	.1	70.7	26.4	621	4.19	6.2	.4	7.2	2.0	39	<.1	.4	.1	93	.25	.021	6	124.3	1.37	366	.082	4	2.69	.013	.04	.2	.03	7.8	.1	<.05	6
SXB 200250	.9	63.8	6.0	55	.2	48.5	17.2	400	3.64	7.4	.4	3.4	2.2	69	<.1	.4	.2	79	.19	.030	7	91.3	.83	140	.139	3	2.05	.007	.04	.2	.02	3.8	.1	<.05	6
SXB 200300	.7	76.0	6.1	52	.1	48.4	17.9	398	3.60	6.8	.3	<.5	1.9	12	.1	.5	.1	77	.19	.028	6	85.0	.86	197	.155	1	2.08	.011	.03	.2	<.01	3.0	.1	<.05	6
SXB 200350	.1	230.8	1.5	83	<.1	140.0	48.1	1029	4.96	1.9	.1	2.1	.3	21	.2	.1	<.1	82	.53	.012	2	221.2	2.55	308	.251	2	3.00	.003	.01	.1	<.01	5.5	.1	<.05	4
SXB 200400	.7	156.5	4.7	71	.1	71.3	30.6	744	4.48	8.6	.3	3.1	2.0	12	.1	.4	.1	95	.29	.027	6	142.6	1.59	95	.218	2	2.62	.005	.03	.1	.01	5.7	.1	<.05	6
SXB 200450	.8	75.6	4.6	60	.2	58.4	22.8	727	3.79	6.8	.3	1.8	1.6	14	.1	.3	.1	81	.21	.046	6	128.5	1.13	83	.164	2	2.16	.007	.04	.2	.01	4.0	.1	<.05	6
SXB 200500	.4	129.9	2.9	65	.1	101.2	33.4	781	3.82	4.3	.2	2.9	.9	18	.2	.2	.1	69	.38	.043	4	187.9	1.73	72	.124	2	2.34	.004	.03	.1	<.01	4.2	<.1	<.05	5
RE SXB 200450	1.0	76.6	4.8	59	.2	56.7	21.9	736	3.58	6.9	.3	3.3	1.7	14	.1	.4	.1	81	.21	.045	6	125.6	1.14	96	.159	5	2.14	.005	.03	.2	.01	4.0	.1	<.05	6
SXB 300000	1.2	119.8	11.1	96	.1	165.8	42.5	1147	6.59	8.0	.5	2.1	6.2	30	.1	.6	.3	104	.54	.102	26	200.4	2.63	137	.104	3	3.31	.007	.09	.1	<.01	8.6	.2	<.05	11
SXB 300050	2.8	309.2	10.8	79	.1	95.8	31.7	1380	8.15	12.0	.7	12.1	5.9	12	.1	.9	.4	78	.24	.057	26	94.2	1.88	555	.010	4	2.97	.004	.07	.1	.02	11.9	.2	<.05	9
SXB 300100	.8	110.0	4.7	69	.1	86.8	28.5	622	4.42	8.6	.3	1.5	2.1	15	<.1	.4	.1	98	.24	.019	6	158.3	1.39	196	.191	3	2.73	.007	.03	.2	.02	5.3	.1	<.05	7
SXB 300150	.4	148.7	3.6	71	.2	120.4	36.7	706	4.76	5.4	.2	2.0	1.5	138	.1	.2	.1	88	.41	.017	4	193.6	1.96	94	.168	3	2.87	.004	.03	.1	.02	5.1	.1	<.05	5
SXB 300200	.6	108.7	4.0	62	.1	77.2	26.2	588	4.12	5.7	.4	4.9	2.0	29	<.1	.3	.1	86	.23	.015	6	141.7	1.52	166	.195	6	2.66	.008	.02	.1	.01	4.2	.1	<.05	6
SXB 300250	.5	134.8	3.3	73	.1	110.8	39.0	919	5.01	4.7	.3	3.9	1.4	21	.1	.3	.1	101	.43	.016	5	191.9	2.12	132	.244	4	3.17	.004	.02	.1	.01	5.9	.1	<.05	6
SXB 300300	.6	129.8	3.5	67	.1	86.6	30.4	628	4.32	6.6	.3	2.2	1.5	19	.1	.3	.1	86	.32	.022	5	150.5	1.48	106	.225	3	2.63	.005	.03	.1	<.01	4.7	.1	<.05	5
STANDARD DS4	6.6	120.5	32.0	156	.3	33.3	11.6	802	3.19	23.1	6.4	26.4	3.7	27	5.3	5.0	5.3	73	.52	.094	17	161.7	.58	140	.091	3	1.71	.030	.16	4.0	.27	3.7	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	2.7	2.5	42	<.1	4.5	3.7	485	1.89	.8	1.9	<.5	4.6	101	.1	<.1	.1	40	.60	.089	9	15.1	.53	243	.142	2	.98	.109	.50	2.6	<.01	2.7	.3	.09	5
SXB 300350	.3	196.5	2.2	74	<.1	113.4	45.8	984	5.18	4.9	.2	3.9	1.2	32	.1	.3	.1	111	.43	.033	4	209.9	2.74	109	.201	3	3.16	.004	.03	.1	<.01	8.6	.1	.07	5
SXB 300400	.7	83.3	4.5	52	.1	44.9	14.6	305	2.68	6.0	.4	1.5	.7	14	.1	.3	.1	60	.23	.039	8	88.3	.91	87	.083	<1	1.70	.005	.03	.1	.01	2.6	.1	.09	4
SXB 300450	.8	86.8	5.0	56	.1	49.9	18.9	446	2.97	7.3	.4	1.5	2.1	18	.1	.4	.1	60	.23	.048	8	90.9	.88	136	.116	1	1.79	.003	.03	.2	.02	3.3	.1	<.05	5
SXB 300500	.6	85.9	4.4	61	.1	61.3	19.4	456	3.47	6.9	.3	3.2	2.0	15	.1	.3	.1	71	.22	.034	7	131.6	1.22	105	.162	3	2.02	.005	.03	.1	.03	3.5	.1	<.05	4
SXC 000000	.6	98.9	4.5	62	<.1	55.4	21.5	531	3.15	6.9	.3	3.4	1.7	9	.1	.3	.1	68	.25	.037	7	101.1	1.11	58	.102	<1	1.79	.005	.02	.2	.02	3.5	.1	.06	4
SXC 000100	.4	91.7	3.2	54	.1	54.3	18.4	434	2.72	4.2	.3	1.3	1.8	14	.1	.3	.1	56	.35	.046	7	96.1	1.18	72	.102	1	1.60	.006	.02	.1	.01	3.7	<.1	<.05	3
SXC 000200	.5	121.5	4.0	66	.1	73.1	27.5	702	3.95	5.9	.3	3.4	1.2	12	.2	.2	.1	80	.30	.034	6	150.2	1.66	70	.106	<1	2.23	.006	.03	.1	.02	4.8	.1	<.05	5
SXC 000300	.5	174.8	4.4	66	.1	75.4	27.5	817	3.68	6.5	.4	3.0	1.0	14	.2	.3	.1	78	.66	.059	7	143.8	1.64	93	.057	2	2.09	.006	.02	.1	.01	8.0	.1	<.05	5
SXC 000400	.7	141.8	5.5	71	.1	71.3	29.3	809	3.69	7.7	.4	8.1	1.5	13	.3	.4	.1	78	.44	.056	8	125.7	1.42	109	.081	2	2.17	.008	.05	.2	.03	5.7	<.1	<.05	5
SXC 000500	.6	193.4	6.1	77	<.1	50.0	23.2	975	4.11	4.9	.4	38.7	2.1	14	.1	.4	.3	76	.23	.060	10	89.8	1.39	89	.081	<1	2.02	.005	.04	.1	.02	5.3	<.1	<.05	7
SXC 100000	.9	134.6	5.2	63	<.1	50.9	20.8	488	3.39	9.0	.5	2.2	2.7	12	.2	.5	.2	64	.21	.053	9	90.8	.93	72	.090	1	2.06	.006	.03	.3	.04	3.4	.1	<.05	5
SXC 100100	.5	70.3	5.1	61	.1	51.4	20.6	535	2.80	4.9	.3	<.5	.6	9	.3	.3	.1	51	.24	.045	4	91.7	1.07	65	.077	2	1.54	.006	.03	.1	.01	2.7	<.1	<.05	3
RE SXC 100300	.6	86.7	7.7	66	<.1	51.1	20.6	552	3.19	7.1	.4	2.5	1.8	10	.2	.3	.1	62	.27	.040	9	94.7	1.09	90	.074	<1	1.78	.004	.03	.2	.02	3.3	.1	<.05	4
SXC 100200	.6	75.7	5.7	67	<.1	53.9	22.8	700	3.23	6.8	.3	1.3	1.5	11	.2	.4	.1	66	.26	.039	7	101.4	1.09	84	.103	1	1.73	.007	.03	.2	.01	3.1	.1	<.05	4
SXC 100300	.5	86.0	7.9	66	<.1	50.2	20.6	540	3.04	7.4	.4	.9	1.9	11	.2	.4	.1	60	.28	.037	8	89.8	1.11	85	.080	2	1.69	.005	.03	.2	.02	3.3	.1	<.05	4
SXC 100400	.8	82.7	9.1	72	.1	51.2	21.3	612	3.37	9.3	.4	1.9	1.6	10	.1	.5	.2	68	.19	.047	9	94.8	1.03	101	.078	<1	2.02	.006	.04	.2	.02	3.6	.1	<.05	5
SXC 100500	.5	179.7	7.2	76	.1	34.3	16.8	683	3.13	4.8	.4	23.0	2.4	14	.1	.3	.2	54	.29	.071	11	51.7	1.11	111	.095	<1	1.81	.006	.06	.1	.03	3.5	<.1	<.05	6
SXC 200E 000	.8	104.2	5.6	60	.1	45.9	18.2	446	3.11	7.5	.5	2.4	1.2	11	.1	.4	.2	63	.21	.050	10	87.4	.84	103	.078	2	1.67	.005	.04	.2	.04	3.1	.1	<.05	5
SXC 200E 100N	.7	128.3	7.7	68	.1	28.6	13.4	544	2.76	10.0	.6	6.5	.6	13	.1	.3	.2	56	.19	.072	11	42.2	.68	113	.044	1	1.67	.006	.03	.1	.03	2.1	.1	<.05	5
SXC 200E 200N	1.0	69.5	7.2	68	.1	45.4	19.3	569	3.32	7.3	.4	2.8	2.5	12	.2	.5	.1	76	.18	.038	9	87.9	.99	104	.097	<1	1.90	.005	.04	.2	.02	4.5	.1	<.05	5
SXC 200E 300N	.9	92.1	13.2	100	<.1	57.9	26.0	901	3.88	8.9	.4	1.5	1.6	12	.3	.4	.1	77	.27	.051	9	112.1	1.31	103	.075	1	2.06	.006	.04	.1	.02	3.6	.1	<.05	6
SXC 200E 400N	.6	167.3	7.6	81	.1	45.7	22.7	918	3.67	6.0	.4	12.1	2.3	14	.1	.4	.2	64	.26	.057	10	73.9	1.26	99	.111	2	2.04	.005	.04	.2	.03	4.4	.1	<.05	6
SXC 200E 500N	1.2	71.8	11.6	63	<.1	25.6	12.3	524	3.38	9.4	.6	5.8	2.2	12	.1	.6	.2	60	.14	.047	11	44.8	.68	68	.079	1	2.07	.006	.05	.2	.05	3.0	.1	<.05	6
SXC 300E 000	.4	107.0	4.4	56	<.1	51.9	17.9	495	2.85	5.1	.4	4.3	1.8	14	.2	.3	.1	57	.38	.051	8	87.5	1.07	93	.072	1	1.68	.006	.02	.2	.01	5.1	<.1	<.05	4
SXC 300E 100N	.7	52.6	6.5	75	<.1	30.1	12.9	461	3.02	9.2	.4	1.7	1.6	14	.2	.4	.2	62	.23	.054	11	53.3	.71	116	.051	1	1.47	.006	.05	.1	.02	3.4	.1	<.05	6
SXC 300E 200N	.5	239.7	7.4	86	.1	33.1	16.1	906	2.83	5.5	.5	12.7	2.6	17	.2	.3	.2	43	.29	.075	15	29.2	.79	113	.079	<1	1.69	.006	.06	.2	.03	3.1	.1	<.05	5
SXC 300E 300N	.4	165.6	7.6	86	<.1	40.3	19.6	961	3.16	3.2	.3	19.5	2.6	21	.2	.2	.2	41	.43	.095	12	35.9	1.10	78	.099	<1	1.66	.003	.05	.3	<.01	3.0	<.1	<.05	5
SXC 300E 400N	.1	266.7	5.8	88	<.1	34.1	19.7	1597	2.91	1.3	.2	12.9	3.2	16	.2	.1	.2	33	.36	.075	17	18.9	1.03	38	.068	<1	1.35	.005	.04	.1	.01	3.5	<.1	<.05	4
SXC 300E 500N	.9	109.3	9.7	72	.1	30.9	12.9	1057	2.81	7.5	.5	10.9	.7	17	.3	.5	.2	54	.26	.076	12	37.8	.67	142	.043	1	1.65	.005	.04	.1	.05	2.3	.1	<.05	6
SXF 02S01	.3	242.7	6.5	155	.2	226.2	87.1	3449	11.01	53.0	.2	6.2	.9	14	.6	.4	.1	203	1.12	.042	9	271.7	2.85	71	.015	<1	3.56	.004	.03	<.1	.05	34.0	<.1	<.05	7
SXR 029S01	1.6	52.4	9.6	75	<.1	31.3	19.4	743	3.55	13.0	.6	2.1	2.9	19	.2	.7	.1	50	.15	.062	14	28.4	.59	142	.053	<1	1.88	.008	.07	.2	.03	2.9	.1	<.05	6
SXR 029S02	2.5	97.2	8.1	78	<.1	16.6	22.2	588	4.74	22.5	.5	2.1	1.0	19	.3	.6	.1	41	.18	.133	15	21.2	.46	78	.040	<1	1.46	.006	.05	.2	.03	1.5	.1	.07	5
SXR 029S03	1.1	174.5	10.5	85	<.1	40.3	18.6	1123	4.51	12.9	.7	10.1	2.2	12	.9	.8	.2	63	.14	.077	12	38.8	.51	175	.041	<1	1.88	.006	.06	.3	.06	4.8	.1	<.05	5
SXR 029S04	1.4	29.4	11.4	74	<.1	33.7	13.4	428	3.60	13.3	.5	2.3	4.3	10	.2	.8	.2	65	.09	.032	12	41.1	.50	170	.039	<1	2.28	.006	.06	.2	.05	3.8	.1	<.05	7
STANDARD DS4	6.8	128.6	31.4	160	.3	33.8	11.8	792	3.21	23.5	6.2	26.3	3.7	27	5.2	5.1	5.2	78	.55	.097	16	164.4	.59	139	.094	<1	1.72	.031	.16	4.2	.28	3.8	1.1	.06	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.4	3.0	2.3	43	<.1	5.2	4.1	580	2.00	<.5	1.7	.5	4.6	94	.1	<.1	.1	40	.57	.088	9	14.6	.54	243	.140	<1	.96	.106	.53	2.3	.01	2.4	.3	<.05	5
SXR 029S05	1.9	74.4	10.0	100	.1	84.2	28.9	1037	6.63	64.3	.4	.7	4.1	10	.3	1.0	.4	82	.09	.068	15	63.2	.57	92	.015	<1	1.90	.006	.02	.1	.02	7.9	.1	<.05	8
SXR 029S06	1.6	39.3	10.2	64	<.1	65.1	20.2	671	3.77	16.0	.6	1.5	4.0	12	.2	.6	.2	63	.11	.041	14	65.4	.79	131	.040	3	2.31	.005	.04	.2	.03	4.3	.1	<.05	6
SXR 029S07	1.4	43.3	12.5	90	.1	21.6	18.4	2554	4.69	7.9	.5	3.3	1.9	12	.3	.4	.3	59	.13	.104	10	35.8	.56	149	.040	3	1.84	.001	.05	.1	.03	2.6	.1	<.05	6
SXR 029S08	1.0	36.2	7.9	73	<.1	29.4	16.1	1249	3.31	5.9	.3	1.4	2.4	8	.2	.3	.2	58	.09	.043	7	36.8	.84	71	.153	1	2.02	.003	.04	.1	.01	2.7	.1	<.05	7
SXR 029S09	.8	205.5	10.6	85	<.1	34.8	19.2	1741	3.51	6.1	.4	17.3	3.5	11	.2	.4	.2	57	.16	.053	9	43.0	1.00	112	.097	1	2.25	.003	.03	.2	.03	3.1	.1	<.05	7
SXR 029S10	.8	76.9	5.7	66	<.1	48.9	18.9	407	3.25	7.4	.4	4.6	3.4	14	.1	.5	.1	59	.23	.045	11	61.1	.84	101	.094	<1	2.01	.006	.04	.3	.02	3.3	.1	<.05	5
SXR 029S11	.7	90.1	6.7	65	<.1	41.2	15.4	479	3.02	10.0	.5	2.9	3.7	13	.1	.5	.2	61	.21	.032	13	59.3	.75	136	.076	3	2.05	.008	.04	.2	.03	4.1	.1	<.05	5
SXR 029S12	.7	82.5	6.4	79	.1	68.4	33.3	1575	6.17	7.7	.5	64.6	2.5	15	.2	.7	.1	87	.67	.043	12	74.7	.84	143	.027	<1	1.42	.008	.05	.4	.06	26.6	.1	<.05	4
SXR 029S13	.7	140.9	5.5	67	.1	65.8	21.3	663	3.58	6.5	.5	4.4	3.3	14	.2	.5	.1	62	.36	.024	10	73.9	.84	122	.093	1	1.67	.008	.05	.2	.01	6.8	.1	<.05	4
SXR 029S14	1.0	56.5	9.2	58	<.1	35.3	12.9	377	2.76	9.8	.5	1.9	2.8	11	.1	.6	.2	59	.15	.042	11	43.0	.53	93	.066	2	1.84	.006	.05	.2	.03	2.8	.1	<.05	5
RE SXR 029S14	1.2	56.8	9.3	57	<.1	34.7	12.3	366	2.80	9.5	.5	.5	2.8	11	.1	.6	.2	58	.13	.042	11	43.4	.52	91	.064	3	1.80	.006	.05	.3	.04	2.8	.1	<.05	5
SXR 029S15	.9	90.3	5.4	63	<.1	49.5	19.3	657	3.13	6.2	.4	1.2	1.3	10	.1	.4	.1	62	.20	.043	8	84.8	.96	99	.076	1	1.86	.005	.04	.2	.03	3.9	.1	<.05	4
SXR 029S16	.6	213.7	5.7	83	<.1	80.8	33.6	1187	4.85	13.1	.4	3.0	1.9	14	.2	2.9	.2	84	.33	.047	9	108.8	1.33	145	.053	<1	2.15	.008	.04	.2	.01	11.1	.1	<.05	5
SXR 029SS01	.4	468.7	12.1	97	.1	29.4	16.0	1134	2.34	2.5	.5	458.3	.5	29	.2	.4	.3	29	.94	.112	18	24.8	.86	56	.036	<1	1.48	.011	.05	.1	.05	3.3	<.1	<.05	4
SXR 029SS05	1.6	101.9	27.7	171	.2	167.6	46.6	1593	5.35	14.0	1.0	1.2	4.6	116	1.0	1.1	.3	65	1.20	.122	19	132.3	1.85	54	.083	2	1.94	.017	.11	.1	.04	5.7	.1	.12	7
STANDARD DS4	6.7	126.7	31.0	156	.3	34.9	12.8	846	3.27	22.6	6.1	26.6	3.6	28	5.0	5.0	5.1	74	.53	.100	17	165.2	.59	142	.091	1	1.72	.030	.16	4.0	.27	3.6	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

ATTENTION - SHAWN RYAN

ACME ANALYTICAL LABORATORIES LTD.
852 East Hastings,, Vancouver, B.C., CANADA V6A 1R6
Phone: (604) 253-3158 Fax: (604) 253-1716
Our GST # 100035377 RT

LOGAN RESOURCES LTD.
1022 - 470 Granville St.
Vancouver, BC
V5C 1V5

Inv.#: **A205281**
Date: Dec 12 2002

QTY	ASSAY	PRICE	AMOUNT
344	GROUP 1DA (20 gm) @	11.48	3949.12
344	SS80 - SOIL @	1.35	464.40
			4413.52
	1 DISKETTE		1.50
	GST Taxable		4415.02
	7.00% GST		309.05
	CAD $		**4724.07**

UNIT PRICE REFLECTS 10% DISCOUNT

COPIES 1 FAX 1 DISK 1

RECEIVED DEC 16 2002

ENTERED

DELL CREEK
Yukon, T.

Please pay last amount shown. Return one copy of this invoice with payment.
TERMS: Net two weeks. 1.5 % per month charged on overdue accounts.

[COPY 1]

Shell Creek Rock Samples

Submitted by: Aurum Geological Consultants Inc. (Al Doherty)
Results 3151 - 3rd Ave Whitehorse, Yukon, Y1A 1G1
867-667-4168

Results & Invoice Attn: Seamus Young
Logan Resources Ltd
Suite 1022 - 470 Granville Street
Vancouver, BC, V6C 1V5
604-689-0299

SHIPPING DETAILS: 6 bags
Greyhound Waybill 71497437255
Shipped from Whitehorse
January 16th

64 Rock Samples All samples Group 1E, Indicated Samples run Metallics Fire Assay as well.

SAMPLE NUMBERS		Prep	Analyses/Assay
SXR029R01		R150	Group 1E
SXR029R02		R150	Group 1E
SXR029R03		R150	Group 1E
SXR029R04		R150	Group 1E
SXR029R05	Metallics FA	M150	Metallic FA 500 gm
SXR029R06		R150	Group 1E
SXR029R07		R150	Group 1E
SXR029R08		R150	Group 1E
SXR029R09		R150	Group 1E
SXR029R10		R150	Group 1E
SXR029R11		R150	Group 1E
SXR029R12		R150	Group 1E
SXR029R13		R150	Group 1E
SXR029R14	Metallics FA	M150	Metallic FA 500 gm
SXR029R15		R150	Group 1E
SXR029R16		R150	Group 1E
SXR029R17		R150	Group 1E
SXR029R18	Metallics FA	M150	Metallic FA 500 gm
SXR029R19	Metallics FA	M150	Metallic FA 500 gm
SXR029R20	Metallics FA	M150	Metallic FA 500 gm
SXR029R21		R150	Group 1E
SXR029R22A		R150	Group 1E
SXR029R22B		R150	Group 1E
SXR029R23		R150	Group 1E
SXR029R24		R150	Group 1E
SXR029R25		R150	Group 1E
SXR029R26		R150	Group 1E
SXR029R27		R150	Group 1E
SXR029R28		R150	Group 1E
SXR029R29		R150	Group 1E
SXR029R30	Metallics FA	M150	Metallic FA 500 gm
SXR029R31	Metallics FA	M150	Metallic FA 500 gm
SXR029R32		R150	Group 1E
SXR029R33		R150	Group 1E
SXR029R34		R150	Group 1E
SXR029R35		R150	Group 1E
SXR029R36		R150	Group 1E

Analytical Cost Estimate

64 @ $5 $320.00
64 @ $8.80 563.20
10 @ $21.00 210.00

1093.00
76.00

$1,169.50

Shipping & Packing.
Sample List, Descriptions
$400.00

AGCI INV. Fire Assay Work
RAD - $600.00
Exp. 720.00
Lst 92.45

1,413.16

SXR029R37	Metallics FA	M150	Metallic FA 500 gm
SXR029R38		R150	Group 1E
SXR029R39		R150	Group 1E
SXR029R40		R150	Group 1E
SXR029R41		R150	Group 1E
SXR029R42		R150	Group 1E
SXR029R43	Metallics FA	M150	Metallic FA 500 gm
SXR029R44		R150	Group 1E
SXR029R45		R150	Group 1E
SXR029R46	Metallics FA	M150	Metallic FA 500 gm
SXR029R47		R150	Group 1E
SXR029R48		R150	Group 1E
SXR029R49		R150	Group 1E
SXR029R50		R150	Group 1E
SXR029R51		R150	Group 1E
SXR029R52		R150	Group 1E
SXR029R53		R150	Group 1E
SXR029R54		R150	Group 1E
SXR029R55		R150	Group 1E
SXR029R56		R150	Group 1E
S1R3059561981		R150	Group 1E
S1R3080062075		R150	Group 1E
S1R3074061988		R150	Group 1E
R3034561887		R150	Group 1E
R3034461838		R150	Group 1E
R3046560882		R150	Group 1E
AD01-103		R150	Group 1E

Total Expend

Assay Analyzed Rx	1,169.50
Shipping, sample list description	400.00
AL. D.	600.00
Exp	720.00
Lit	120.00
	3009.50

1147000 mN
121000 mE
122000 mE
123000 mE
124000 mE
125000 mE
126000 mE
127000 mE
128000 mE
129000 mE
1147000 mN
130000 mE
1146000 mN
1146000 mN
1145000 mN
1145000 mN
1144000 mN
1144000 mN
1143000 mN
1143000 mN
1142000 mN
1142000 mN
1141000 mN
800
900
1000
1100
1200
1400
700
600

ppm Cu

- 254 to 398 (17)
- 181 to 254 (30)
- 108 to 181 (85)
- 0 to 108 (187)

100m contour interval

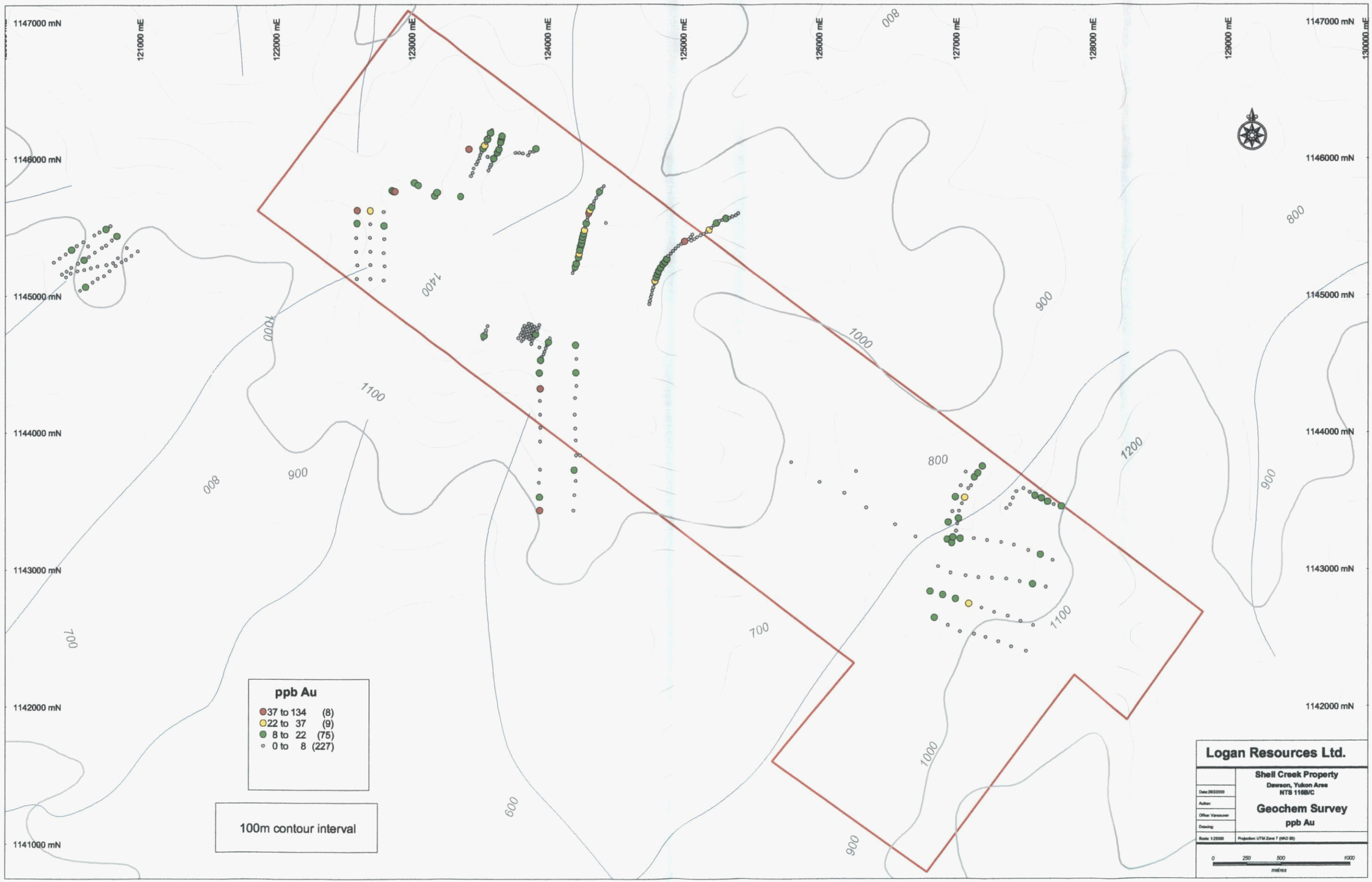
Logan Resources Ltd.

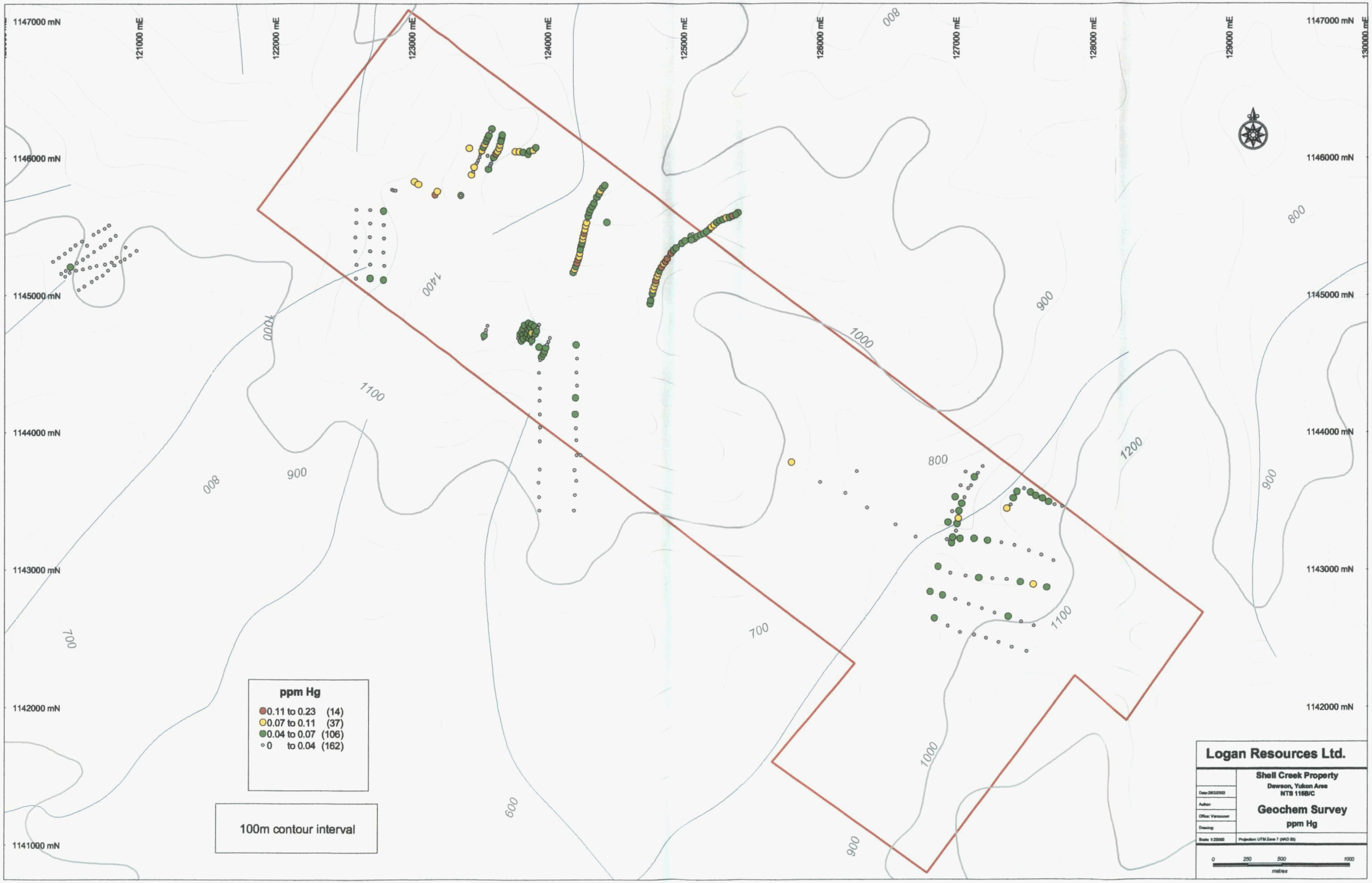
Shell Creek Property
Dawson, Yukon Area
NTS 116B/C

Geochem Survey
ppm Cu

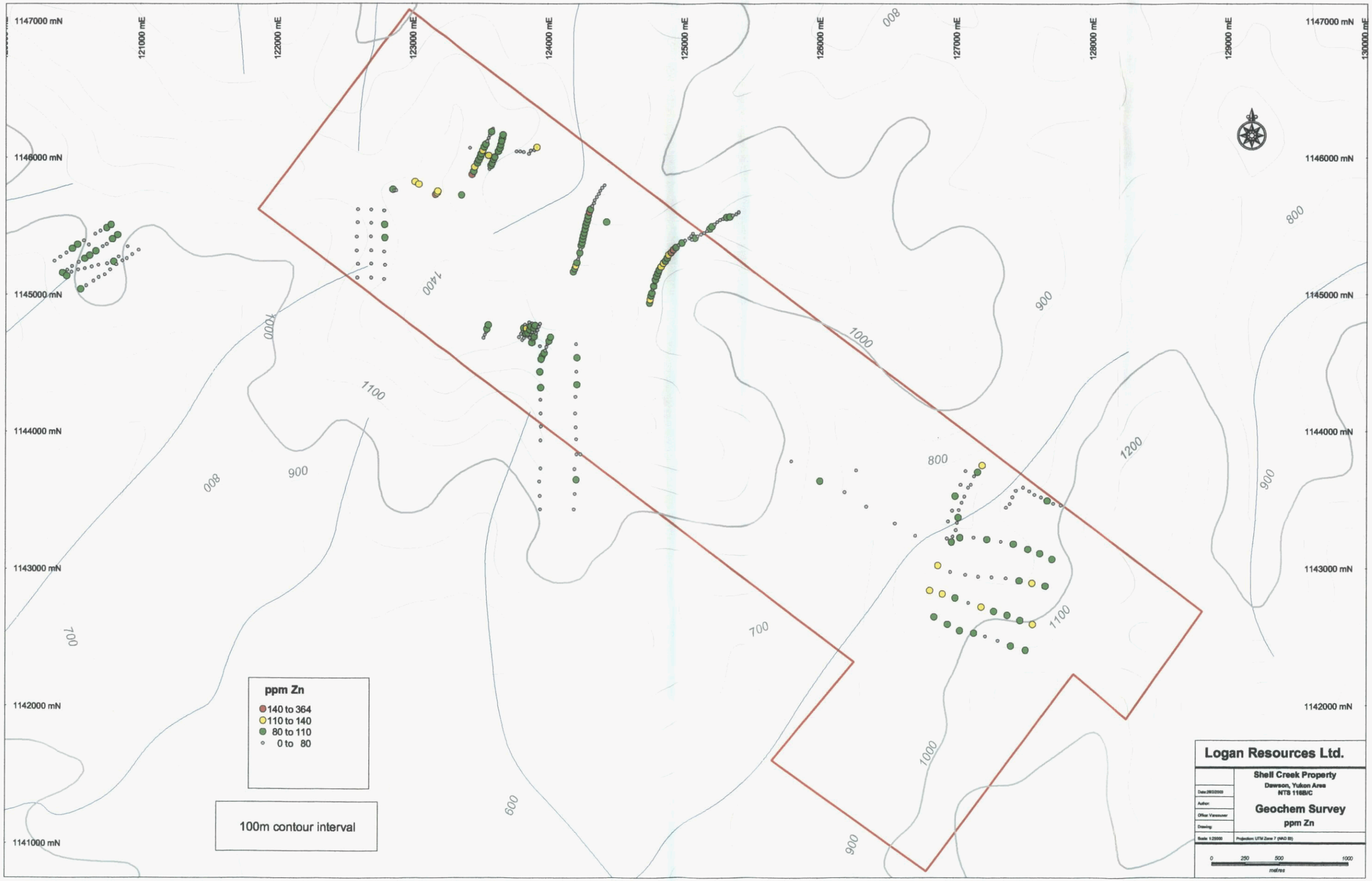
Date: 26/2/2003
Author:
Office: Vancouver
Drawing:
Scale: 1:25000
Projection: UTM Zone 7 (NAD 83)

0 250 500 1000
metres


1147000 mN
121000 mE
122000 mE
123000 mE
124000 mE
125000 mE
126000 mE
127000 mE
128000 mE
129000 mE
1147000 mN
130000 mE
1146000 mN
1145000 mN
1144000 mN
1143000 mN
1142000 mN
1141000 mN
800
900
1000
1100
1200
1400
700
600
ppb Au
37 to 134 (8)
22 to 37 (9)
8 to 22 (75)
0 to 8 (227)
100m contour interval
Logan Resources Ltd.
Shell Creek Property
Dawson, Yukon Area
NTS 116B/C
Geochem Survey
ppb Au
Projection: UTM Zone 7 (NAD 83)
0 250 500 1000
metres



1147000 mN
121000 mE
122000 mE
123000 mE
124000 mE
125000 mE
126000 mE
127000 mE
128000 mE
129000 mE
1147000 mN
130000 mE
1146000 mN
1146000 mN
1145000 mN
1145000 mN
1144000 mN
1144000 mN
1143000 mN
1143000 mN
1142000 mN
1142000 mN
1141000 mN
1400
1100
1000
900
800
700
600
1200
ppm Hg
0.11 to 0.23 (14)
0.07 to 0.11 (37)
0.04 to 0.07 (106)
0 to 0.04 (162)
100m contour interval
Logan Resources Ltd.
Shell Creek Property
Dawson, Yukon Area
NTS 116B/C
Date:28/2/2003
Author:
Office: Vancouver
Drawing:
Geochem Survey
ppm Hg
Scale: 1:25000
Projection: UTM Zone 7 (NAD 83)
0
250
500
1000
metres


1147000 mN
121000 mE
122000 mE
123000 mE
124000 mE
125000 mE
126000 mE
127000 mE
128000 mE
129000 mE
1147000 mN
130000 mE
1146000 mN
1145000 mN
1144000 mN
1143000 mN
1142000 mN
1141000 mN
800
900
1000
1100
1200
1400
700
600
ppm Zn
140 to 364
110 to 140
80 to 110
0 to 80
100m contour interval
Logan Resources Ltd.
Shell Creek Property
Dawson, Yukon Area
NTS 116B/C
Geochem Survey
ppm Zn
Date:26/2/2003
Author:
Office: Vancouver
Drawing:
Scale: 1:25000
Projection: UTM Zone 7 (NAD 83)
0
250
500
1000
metres

1147000 mN
1146000 mN
1145000 mN
1144000 mN
1143000 mN
1142000 mN
1141000 mN
121000 mE
122000 mE
123000 mE
124000 mE
125000 mE
126000 mE
127000 mE
128000 mE
129000 mE
130000 mE
800
900
1000
1100
1200
1400
700
600

ppm Pb

- 34 to 103 (9)
- 23 to 34 (22)
- 12 to 23 (77)
- 0 to 12 (211)

100m contour interval

Logan Resources Ltd.

Shell Creek Property
Dawson, Yukon Area
NTS 116B/C

Geochem Survey
ppm Pb

Date: 26/2/2008
Author:
Office: Vancouver
Drawing:
Scale: 1:25000
Projection: UTM Zone 7 (NAD 83)

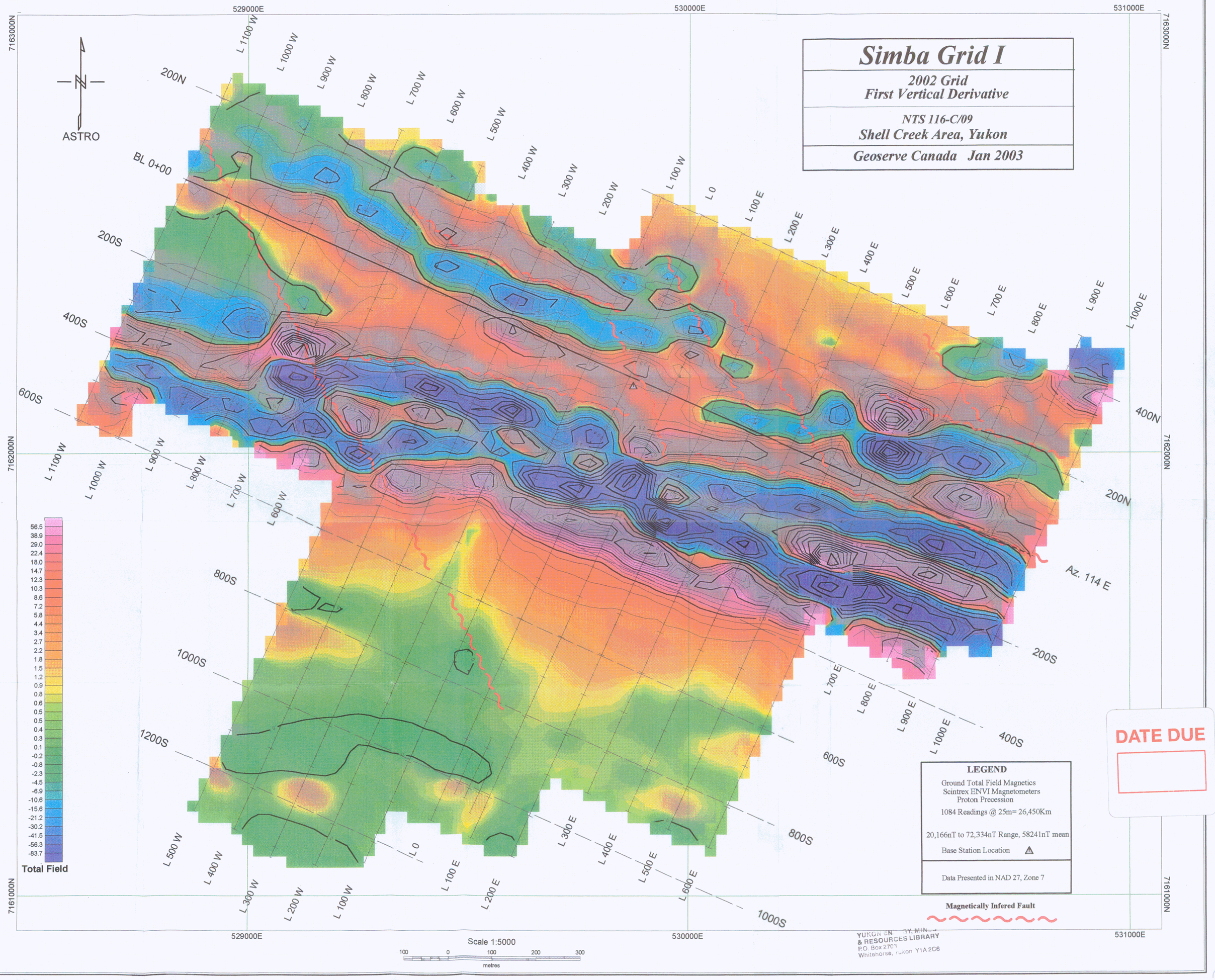
0 250 500 1000
metres

Simba Grid I

2002 Grid
First Vertical Derivative

NTS 116-C/09
Shell Creek Area, Yukon

Geoserve Canada Jan 2003



LEGEND

Ground Total Field Magnetics
Scintrex ENVI Magnetometers
Proton Precession

1084 Readings @ 25m= 26,450Km

20,166nT to 72,334nT Range, 58241nT mean

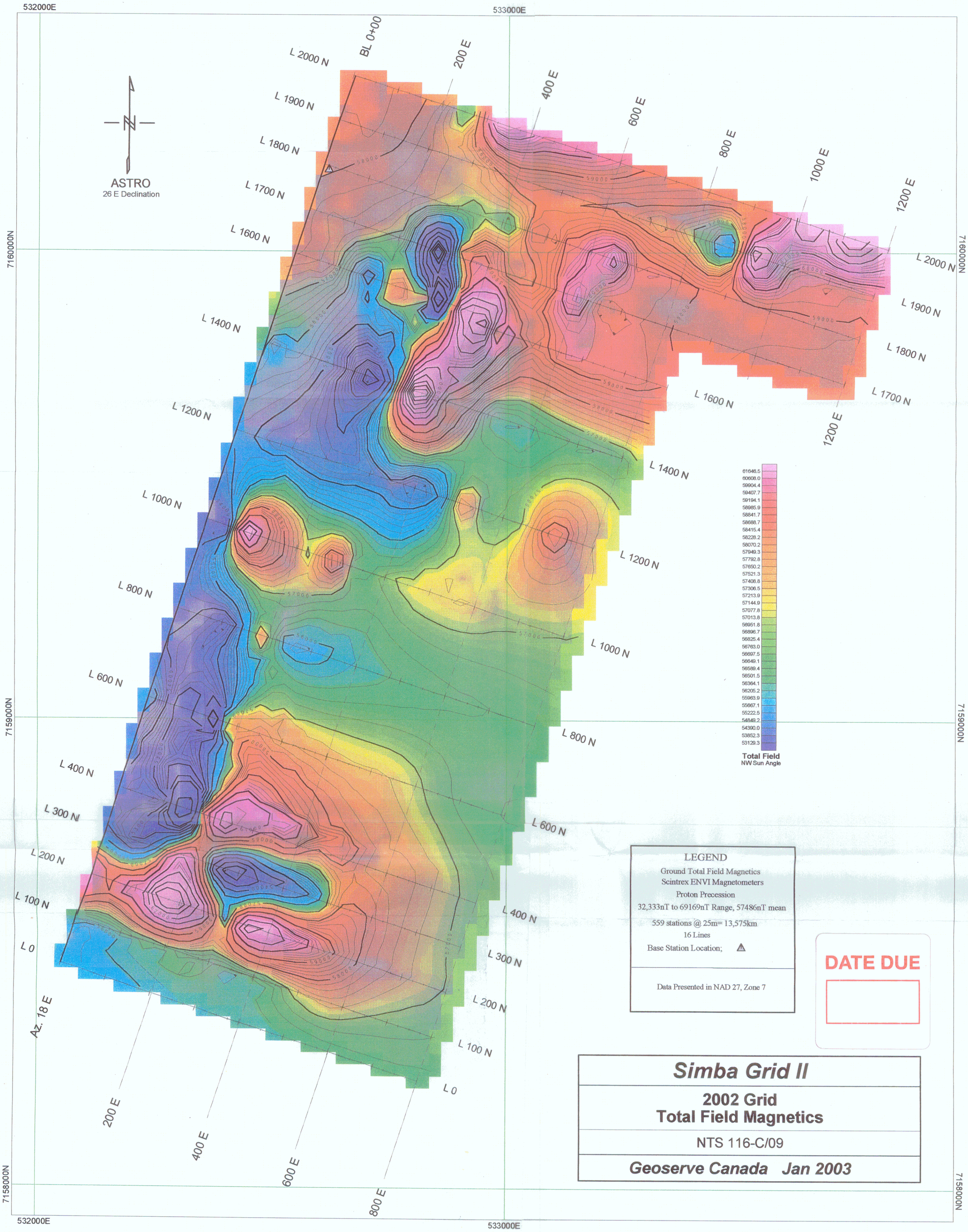
Base Station Location

Data Presented in NAD 27, Zone 7

Magnetically Infered Fault

Scale 1:5000

100 0 100 200 300
metres


532000E
533000E
7160000N
7159000N
7158000N
ASTRO
26 E Declination
BL 0+00
200 E
400 E
600 E
800 E
1000 E
1200 E
L 2000 N
L 1900 N
L 1800 N
L 1700 N
L 1600 N
L 1400 N
L 1200 N
L 1000 N
L 800 N
L 600 N
L 400 N
L 300 N
L 200 N
L 100 N
L 0
Az. 18 E
61646.5
60608.0
59904.4
59407.7
59194.1
58985.9
58841.7
58688.7
58415.4
58228.2
58070.2
57949.3
57792.8
57650.2
57521.3
57408.8
57306.5
57213.9
57144.9
57077.8
57013.8
56951.8
56896.7
56825.4
56763.0
56697.5
56649.1
56589.4
56501.5
56364.1
56205.2
55963.9
55667.1
55222.5
54849.2
54390.0
53852.3
53129.3
Total Field
NW Sun Angle
LEGEND
Ground Total Field Magnetics
Scintrex ENVI Magnetometers
Proton Precession
32,333nT to 69169nT Range, 57486nT mean
559 stations @ 25m= 13,575km
16 Lines
Base Station Location;
Data Presented in NAD 27, Zone 7
DATE DUE
Simba Grid II
2002 Grid
Total Field Magnetics
NTS 116-C/09
Geoserve Canada Jan 2003
Scale 1:5000
100 0 100 200 300
metres
YUKON ENERGY, MINES
& RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

Simba Grid I

2002 Grid
Total Field Magnetics

NTS 116-C/09
Shell Creek Area, Yukon

Geoserve Canada Jan 2003

ASTRO

529000E 530000E 531000E

7163000N 7162000N 7161000N

L 1100 W L 1000 W L 900 W L 800 W L 700 W L 600 W L 500 W L 400 W L 300 W L 200 W L 100 W L 0 L 100 E L 200 E L 300 E L 400 E L 500 E L 600 E L 700 E L 800 E L 900 E L 1000 E

200N BL 0+00 200S 400S 600S 800S 1000S 1200S

400N 200N Az. 114 E 200S 400S 600S 800S 1000S

62719.4
61610.5
60844.7
60187.4
59721.9
59333.8
59048.9
58807.4
58606.3
58471.1
58358.4
58269.2
58214.1
58170.6
58139.6
58110.1
58090.2
58068.9
58053.3
58036.3
58020.1
58001.2
57979.2
57909.0
57823.2
57710.6
57633.8
57566.9
57503.1
57443.1
57353.2
57224.9
57076.5
56855.0
56650.7
56367.7
55998.1
55261.4

Total Field
NE Sun Angle

LEGEND

Ground Total Field Magnetics
Scintrex ENVI Magnetometers
Proton Preceession

1084 Readings @ 25m= 26,450Km

20,166nT to 72,334nT Range, 58241nT mean

Base Station Location ▲

Data Presented in NAD 27, Zone 7

Scale 1:5000

100 0 100 200 300
metres