

GEOPHYSICAL / GEOCHEMICAL

REPORT

SIMBA 1-70 CLAIMS

GRANT # YC21149-YC21188

GRANT # YC21872-YC21901

NTS # 116 C \ 09

LAT: 64' 03' N

LONG: 140' 25' W

DAWSON MINING DISTRICT

YUKON ENERGY MINES
& RESOURCES LIBRARY
PO BOX 9793
WHITEHORSE, YUKON Y1A 2G6

AUTHOR OF REPORT SHAWN RYAN

WORK PERFORMED JUNE 21 - SEPTEMBER 30, 2002

DATE OF REPORT JANUARY 25, 2002

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SUMMARY

The target is base metal and gold deposit related to Algoma Style Iron Formation found at the head waters of Shell Creek. 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 samples. The result showed a large area of six kilometers long with copper silt anomaly in the 200-300 ppm range. It also gave spot copper, nickel, cobalt and gold anomalies. Three of us returned in early September and placed two large grids across the Simba Claims and added three small grids to cover some of the silt anomalies found outside of the claim block.

Simba I Grid was located on the northwest part of the Property; it covered 22.2 KL of grid lines.

The second Grid Simba II 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 VLF survey was conducted on the eastern grid (Simba II). A soil survey was conducted on three small grid areas outside of the Property and soil was taken off the two main grids on the Property. There were 344 soils taken in total and 64 rock samples off the entire Property area. Soil values confirmed a large area that is anomalous in copper, nickel, cobalt, zinc and spot gold values.

The exciting part of the project came when visible gold was found in a large quartz structure that was paralleling the iron formation for seven kilometers. The quartz veins carry bornite, Tetrahedrite, chlorite, calcite and visible gold. The visible gold was found in three pieces 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 area. This gives the gold potential strike of 3.5 kilometers but I feel it carries for the whole seven kilometers. Rock samples are being processed as this report was being written.

1.0 INTRODUCTION

This report describes a magnetic survey, a VLF survey and a soil survey conducted on the Simba Property in the Dawson Mining District, Yukon Territory. The Simba Property hosts a large Algoma style Iron Formation that is 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 seriously looked 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 returned 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 the Alaska border. The Property is 55 kilometers north west of Dawson City. The only access is via helicopter from Dawson City. There is also the Clinton Creek Road, a summer road that gets to within 9 kilometers 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. 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 Olgivie mountain range to the north and the Tintina Valley to the south. Elevation on the Property ranges from 2500 feet to 4500 feet. The property vegetation is covered with spruce and 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 Cambrian 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 drainages with 38 individual tributaries sample for a total 77 sample collected during the two-day program

6.0 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 were 100 meter apart and station spacing was 50 meters. All lines were going straight north south with a magnetic declination was set at 26 degrees east. All station locations 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 kilometers of grid lines with 40 station locations 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 readings 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's natural daily magnetic drift. If this drift were not a factor in the field data, then the 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-dumped 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 readings 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 of 1560 station readings.

6.4 VLF SURVEY

A VLF survey was run on Simba Grid II. The instrument malfunctioned on Grid I, so I had to call in for another one and it did not arrive until the camp moved to Grid II. The instrument used was a Scintrex portable backpack VLF system. I used one survey station located in Seattle, Washington to try to get a good coupling angle. The VLF survey uses different VLF station positions around the world. These stations radiate electromagnetic waves in VLF bands (i.e., 3-30 KHz) at particular frequencies to which the station is assigned (i.e., 24.8 KHz for Seattle, WA). The waves are generated by currents traveling up and down the vertical tower. The energy generated fans out from the station and travels thousands of miles. If the geological conductor you're looking for is on strike with the VLF station, then you get good coupling and pick up a good conductor.

I took station readings every 25 meters for a total of 560 readings. I used frequency 24.8 KHz, Jim Creek, WA.

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 an 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 noted 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 is not as intense as the known iron formation, so it may be caused by a magnetic intrusion of granodiorite to diorite phase. Diorite intrusions were 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 noted on the Mann Geological Map as being a large iron formation that is 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 is centered between ST-400 E on L-1400 N to ST-1200 E on L-2000 N.

7.3 VLF SURVEY

The VLF survey results showed six good cross over across the whole Grid II Three large cross over located on line 2000 N at station 200 E, 325 E and 500 E These cross over represent the iron formation contacts All three cross over have shown good magnetic correspondence The cross over at station 200 E is at the edge of a magnetic high, low contact Cross over at 325 E is at the contact of a magnetic high and cross over 500 E where the magnetic high starts to drop

Line 1400 N has a cross over at station 500 E This cross over is on the east side of a magnetic high right at the magnetic high, low contact This is probably an iron formation contact

Line 1000 N has a cross over at station 425 E This cross over is right at beginning of a magnetic high This magnetic high is not as intense as the iron formations it may be related to an intrusive diorite

Line 600 N and 500 N has a small cross over The cross over on line 600 N is located at station 300 E The cross over on line 500 N is located at 250 E Both cross over are associated with magnetic highs and have been mapped as iron formation

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 recommended

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 January 2003 in Dawson City, Yukon

Respectfully submitted

A handwritten signature in black ink, appearing to read 'Shawn Ryan', with a long horizontal flourish extending to the right.

Shawn Ryan

11.0 COST

GRID WORK

Simba I	Grid Lines 17 8 KL @ \$300 00	\$5,340 00
Simba I	Base Line 2 0 KL @ \$300 00	\$600 00
Simba II	Grid lines 14 KL @ \$300 00	\$4,200 00
Simba II	Base line 2 0 KL @ \$300 00	\$600 00
Simba I	Grid Extension 6 35 KL @ \$300 00	\$1905 00
Simba A	Grid lines 2 KL @ \$300 00	\$600 00
Simba B	Grid Line 2 KL @ \$300 00	\$600 00
Simba C	Grid Line 2 5 KL @ \$300 00	\$750 00

MAGNETIC SURVEY

Simba I	17 8 KL @ \$250 00	\$4,450 00
Simba I	Extension work 6 35 KL @ \$250 00	\$1,587 00
Simba II	14 0 KL @ \$250 00	\$3,500 00

VLF SURVEY

Simba II	14 0 KL @ \$250 00	\$3,500 00
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REGIONAL SILT SURVEY

Wage	3 man days @ \$250 00 per day	\$750 00
Wage	4 man days @ \$250 00 per day	\$1,000 00
Assay	Assay work File # A202661-A202662-A202664	\$1,900 00

CONSULTANT GEOLOGIST WORK

Property visit, review of data and alteration and rock description
Aurum Geological, Al Doherty \$1,413 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
Simba A	2 man days @ \$250 00 per day	\$500 00
Simba B	2 man days @ \$250 00 per day	\$500 00
Simba C	3 man days @ \$250 00 per day	\$750 00

PROSPECTING

Simba I	2 man days @ \$250 00 per day	\$500 00
Simba II	2 man days @ \$250 00 per day	\$500 00
Simba C	2 man days @ \$250 00 per day	\$500 00

CLAIM STAKING

Simba B,C	3 man days @ \$250 00 per day	\$750 00
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ASSAY WORK (SEPT.)

SOILS

Simba I	151 soil @ \$13 72		\$2,071 72
Simba II	50 soil @ \$13 72		\$686 00
Simba A	40 soil @ \$13 72	\$548 80	
Simba B	24 soil @ \$13 72	\$329 28	
Simba C	39 soil @ \$13 72	\$535 08	
Simba I Extension	40 soil @ \$13 72	\$548 80	

ROCKS

Simba I	45 rocks @ \$22 80	Au + ICP	\$1026 00
Simba II	19 rocks @ \$22 80	Au + ICP	\$43326
Simba I	12 rocks @ \$21 00	mettallic assay	\$210 00

HELICOPTER TRAVEL

Simba I	Mob in Invoice 29625	\$759 70	
Simba I	Mob in invoice 29633	\$325 00	
Simba II	Camp move ### Invoice 31228		\$3,200 00
Simba II	Camp de-mobe invoice # 31229		\$1,600 00
Simba Regional Silt Survey	invoice #26341, 26342	\$4816 00	

TRUCK RENTAL

Simba I	One day for vehicle, gas and driver	\$200 00
Simba A, B, C	One day for drop off to go back in	\$200 00
Simba II	Pick up Camp de-mobe	\$200 00

REPORT WRITING / MAPS

Simba I and II	3 days @ \$300 00	\$900 00
Simba Regional	2 days @ \$250 00	\$500 00
Maps	Simba I and II	\$150 00
Maps	Simba Ext Plus A, B, C	\$150 00

Total Regional Focus Program \$20,802.00

Total Target Evaluation Program \$36,779 00

C. L. O. I. G. R. / C R E E K

46	45	43	44
48	47	41	42
50	49	SIMBA 38	SIMBA 37
		YC21186	YC21185
52	51	SIMBA 40	SIMBA 39
		YC21188	YC21187
54	53	SIMBA 35	SIMBA 36
		YC21183	YC21184
56	55	SIMBA 33	SIMBA 34
		YC21181	YC21182
58	57	SIMBA 22	SIMBA 21
		YC21170	YC21169
60	59	SIMBA 24	SIMBA 23
		YC21172	YC21171
62	61	SIMBA 26	SIMBA 25
		YC21174	YC21173
63		SIMBA 28	SIMBA 27
		YC21176	YC21175
66	65	SIMBA 30	SIMBA 29
		YC21178	YC21177
68	67	SIMBA 32	SIMBA 31
		YC21180	YC21179

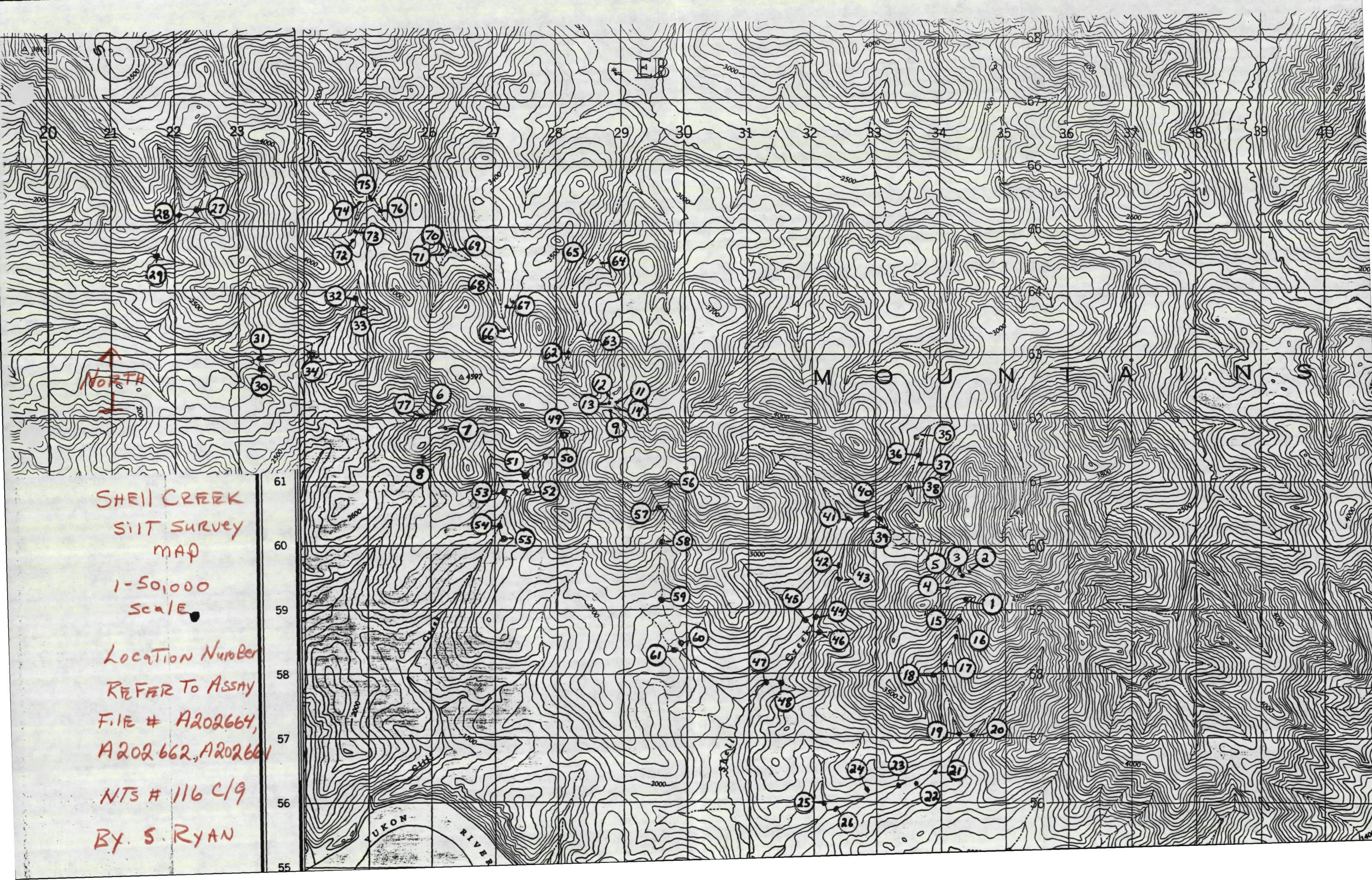
Simba
 41-70
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 Scott Fleming
 27-30 Sept 02.

SIMBA 5	SIMBA 6	SIMBA 11	SIMBA 12	SIMBA 19	SIMBA 20
YC21153	YC21154	YC21159	YC21160	YC21167	YC21168
SIMBA 3	SIMBA 4	SIMBA 9	SIMBA 10	SIMBA 17	SIMBA 18
YC21151	YC21152	YC21157	YC21158	YC21165	YC21166
SIMBA 1	SIMBA 2	SIMBA 7	SIMBA 8	SIMBA 15	SIMBA 16
YC21149	YC21150	YC21155	YC21156	YC21163	YC21164
				SIMBA 13	SIMBA 14
				YC21161	YC21162

E K

2500
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NTs 116 C/09



SHELL CREEK
SIIT SURVEY
MAP
1-50,000
SCALE

LOCATION NUMBER
REFER TO ASSAY
FILE # A202664,
A202662, A202661
NTS # 116 C/9
BY S. RYAN



GEOCHEMICAL ANALYSIS CERTIFICATE



Clonldike Exploration File # A202664
Box 213, Dawson City YT Y0B 1G0

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
Location	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	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			
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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	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	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	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: [Signature] D. TOYE, C. LEONG, J. WANG, CERTIFIED B.C. ASSAYERS



SAMPLE#	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	1.9	92.4	17.6	249	365.0	24.3	6.8	.8	.2	1	6.2	.08	.1	5.6
SIM06SS02	7	54.6	24.0	135	44.3	13.3	.2	.7	.3	1	7.4	.08	.1	6.9
SIM06SS03	8	50.6	10.2	91	25.7	12.6	.3	.8	.2	2	6.3	.09	.1	6.0
SIM06SS04	1.2	60.3	16.2	136	110.7	16.9	1.9	.7	.2	1	11.7	.08	.1	11.4
SIM06SS05	.7	40.2	7.0	68	26.4	6.2	.2	.4	.1	1	6.2	.03	.1	6.0
SIM06SS06	.5	23.6	14.1	75	23.1	8.9	.3	.6	.3	1	2.5	.05	.1	2.3
SIM06SS07	4	30.9	10.6	87	31.7	6.6	.2	.5	.1	1	2.8	.04	.1	2.6
SIM06SS08	1.0	20.5	9.4	61	27.5	9.8	.2	.9	.1	1	3.6	.05	.1	3.5
SIM06SS09	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	7	19.7	10.8	59	23.6	11.4	.2	2.1	.1	1	3.7	.08	.1	3.5
SIM06SS11	6	32.9	13.5	84	22.3	14.5	.2	1.2	.2	2	6.3	.07	.1	6.1
SIM06SS12	1.0	83.9	16.9	122	19.5	6.8	7	5	1	1	2.0	.08	.1	1.9
SIM06SS13	6	34.6	9.4	62	22.2	13.1	2	1.4	.2	1	2.1	.07	.1	1.9
SIM06SS14	5	31.2	8.6	82	21.0	8.1	2	8	1	1	3.2	.07	.1	3.0
SIM06SS15	5	25.0	12.6	66	25.7	15.6	2	1.6	2	2	6.1	.08	.1	5.9
SI0622SS01	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.

SILT SAMPLES



GEOCHEMICAL ANALYSIS CERTIFICATE

Klondike Exploration File # A202661

Box 213, Dawson City YT Y0B 1G0



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga			
Location #	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm				
G-1	12	34	22	45	<1	43	40	514	183	7	30	<5	51	74	1	<1	2	39	56	089	8	12	1	54	232	130	2	89	070	50	24	03	27	3	06	5		
M0602SS02	15	653	011	791	1	189	729	3477	390	107	7	44	27	136	2	3	1	68	144	171	20	174	22	46	60	120	2	204	015	13	1	02	41	1	21	8		
M0602SS03	16	758	114	114	1	166	429	8577	452	104	7	21	32	141	3	4	1	73	158	151	22	155	12	31	70	121	1	206	010	11	1	02	54	1	12	8		
M0602SS04	17	439	084	75	1	149	128	9499	389	69	6	<5	30	141	2	2	1	69	201	200	21	230	72	49	90	107	2	219	011	23	1	01	38	1	09	8		
M0602SS05	18	642	311	85	1	140	427	9558	410	76	7	18	35	133	2	3	1	73	177	176	23	216	22	50	90	107	1	213	008	18	1	02	54	1	07	7		
M0602SS06	19	343	013	84	1	119	123	2441	325	46	6	20	24	257	4	3	1	64	970	110	15	203	82	13	145	092	3	181	007	15	1	02	74	1	20	6		
M0602SS07	20	540	831	153	1	82	518	4448	311	69	19	13	22	336	6	5	2	49	484	114	18	94	71	41	116	064	4	145	010	10	1	03	47	1	18	5		
M0602SS08	21	212	920	103	1	217	87	529	218	71	25	32	12	54	3	2	4	21	89	077	30	22	9	51	133	038	1	96	008	06	1	01	29	2	<	05	5	
M0602SS09	22	10	134	151	88	1	348	103	280	209	86	29	8	113	22	2	5	4	26	27	069	27	31	5	61	120	025	1	110	006	06	1	04	29	2	<	05	6
M0602SS10	23	819	618	126	1	46	213	0435	248	85	25	22	96	97	3	5	4	33	106	080	24	50	6	85	97	043	1	126	006	07	1	02	33	2	09	6		
M0602SS11	24	422	521	111	1	42	714	1928	397	207	52	17	133	171	4	5	7	32	178	091	26	38	5	73	308	037	3	131	024	09	1	03	37	2	14	7		
M0602SS12	25	617	912	86	1	50	211	2396	231	84	15	13	81	44	3	8	3	32	52	079	23	34	5	64	206	024	<	111	010	06	1	02	34	1	16	5		
M0602SS13	26	922	315	133	1	53	313	1560	257	83	18	<5	80	90	3	6	4	32	98	080	22	46	9	76	107	029	<	111	006	06	2	05	35	1	<	05	6	
M0602SS14	27	798	790	89	1	30	420	3696	394	105	9	22	20	32	4	5	2	86	164	068	7	29	51	14	64	119	7	143	007	03	2	05	67	<	107	5		
M0602SS15	28	742	363	32	1	15	785	357	172	62	5	<5	12	142	2	7	1	24	19	59	042	5	13	4	79	80	021	3	61	007	03	1	03	37	1	33	2	
M0602SS16	29	576	379	91	1	41	014	0428	240	45	4	32	19	84	7	4	1	43	138	063	9	70	8	97	159	052	2	127	012	04	2	03	49	4	13	3		
M0602SS20	30	720	310	108	2	54	616	92066	359	130	7	36	25	77	7	7	2	29	130	096	11	30	9	58	420	008	2	118	008	06	1	08	32	1	13	4		
M0602SS21	31	470	411	97	1	57	520	9792	335	57	4	157	21	57	3	5	3	52	135	051	9	103	21	22	209	061	1	158	008	03	1	02	57	1	21	4		
RS0602SS01	32	11	516	65	82	3	136	515	8446	267	55	9	17	18	27	2	2	2	62	36	038	11	95	51	03	376	100	<	173	013	21	1	02	41	2	07	5	
RS0602SS02	33	15	236	64	86	3	38	111	2415	267	50	9	28	28	25	2	2	1	58	32	052	13	43	3	62	807	091	<	129	010	14	2	01	43	2	16	5	
RS0602SS03	34	82	140	11	39	3	27	611	7655	3149	371	14	61	17	64	4	3	<	168	70	214	9	19	2	09	846	007	1	28	007	02	1	04	40	<	135	<	
RE RS0602SS01	35	31	592	57	195	5	78	818	3945	331	43	21	20	26	48	13	3	1	92	76	060	12	76	91	11	660	144	<	180	016	36	1	<	015	1	3	14	7
RU0602SS01	36	30	565	58	194	5	75	417	3887	306	44	21	36	25	47	16	2	1	86	75	055	12	74	91	08	644	137	<	171	015	35	1	02	50	3	18	7	
RU0602SS02	37	16	314	58	145	3	42	394	275	218	32	11	11	29	24	4	1	1	61	29	049	15	40	9	76	430	115	<	145	010	29	2	01	37	2	<	05	5
RU0602SS03	38	103	115	86	382	6	85	524	7380	1080	70	45	113	29	43	48	6	2	64	54	070	16	39	9	71	404	074	<	166	016	22	2	03	43	2	22	5	
STANDARD DS3	39	89	130	035	7157	4	38	212	2797	344	327	73	199	41	29	58	54	59	75	51	082	18	186	3	60	144	082	1	168	030	15	40	21	40	11	<	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: C. L. TOYE, C LEONG, J. WANG, CERTIFIED B.C. ASSAYERS

SILT SAMPLE



GEOCHEMICAL ANALYSIS CERTIFICATE



Klondike Exploration File # A202662 Page 1 (b)
Box 213, Dawson City YT Y0B 1G0

SAMPLE#	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	6	27.1	14.3	83	23.1	8.2	.3	.5	.2	.1	9.4	.05	.1	9.4
M0602SS18	7	53.0	11.5	79	33.6	8.5	.3	.5	.2	.1	7.8	.04	.1	7.5
M0602SS19	.3	170.2	6.3	93	94.9	3.8	.4	.2	<.1	.1	6.9	.03	.2	7.0
SF0602SS01	.6	20.5	13.9	72	25.8	8.0	.1	.4	.2	.1	3.6	.05	.1	3.4
SF0602SS02	.5	15.6	9.6	67	30.0	5.8	.2	.3	.1	.1	1.5	.03	.1	1.4
SF0602SS03	6	26.2	30.9	127	25.2	15.3	.4	1.3	.2	.2	1.8	.07	.1	1.7
SF0602SS04	.6	32.2	19.4	125	27.8	11.6	.5	.8	.2	.2	3.1	.07	.1	3.1
SF0602SS05	1.5	63.9	28.5	182	56.9	16.2	1.0	1.2	.3	.2	3.9	.08	.1	4.0
SF0602SS06	.8	36.2	18.2	124	44.0	11.8	.3	.8	.2	.1	1.2	.03	.1	1.1
SF0602SS07	.6	72.3	9.9	83	28.1	6.1	.4	.5	.1	.1	31.6	.07	.1	33.1
SF0602SS08	.9	47.8	15.7	114	40.5	9.7	.4	.8	.2	.1	5.6	.05	.1	5.7
SF0602SS09	9	67.6	11.1	90	116.2	6.1	.4	5	.1	1	6.0	.05	.1	6.0
SF0602SS10	1 1	48.6	13.7	102	69.6	9.9	.2	6	.1	1	4.3	.03	1	4.3
SF0602SS11	7	46.8	7.8	91	42.8	5.7	.4	4	.1	.1	10.6	.04	1	11.1
SF0602SS12	1 0	48.1	18.9	116	131.8	12.1	.2	6	2	.1	2.1	.01	.2	2.1
SF0602SS13	1 2	46.5	17.2	110	106.5	13.4	.2	7	2	1	1.7	.03	1	1.6
SF0602SS14	9	22.4	13.6	108	76.0	7.7	.3	7	3	1	< 5	.05	1	2
SF0602SS15	5	242.5	6.2	82	40.5	4.5	.4	3	1	.1	10.7	.07	.1	11.2
SF0602SS16	.4	175.3	4.5	69	52.6	9.4	.3	3	.1	.1	8.4	.05	.1	8.7
SF0602SS17	.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	8	53.1	10.6	95	75.3	9.7	.2	.2	.1	1	28.0	.02	.1	29.4
SF0602SS19	.6	107.3	7.9	102	89.9	10.1	.2	.2	.1	1	22.1	.03	.1	23.1
SF0602SS20	.7	46.0	11.6	101	58.4	9.7	.4	8	.2	.1	2.5	.04	.1	2.5
SF0602SS21	.6	23.6	10.9	91	53.5	8.2	.3	.6	.2	.1	1.0	.05	.1	1.0
SF0602SS22	.3	300.5	9.9	90	77.5	3.3	.5	.3	.2	.1	18.1	.03	<.1	19.0
SF0602SS23	.6	252.6	4.6	75	71.3	4.2	.3	.4	.1	1	8.3	.04	.1	8.6
SF0602SS24	.6	108.5	5.4	78	49.9	5.2	.3	.4	.2	1	9.9	.02	<.1	10.3
SF0602SS25	.4	50.7	4.4	72	48.5	3.2	.1	2	.1	.1	6.2	.02	<.1	6.4
SF0602SS26	.4	56.0	5.4	80	52.0	4.5	.3	.3	.1	<.1	18.6	.02	<.1	19.5
SF0602SS27	.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

SILT SAMPLES



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	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 8 4 0	21 7 141	1 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 7	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 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 48 - 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

JOE TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS



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



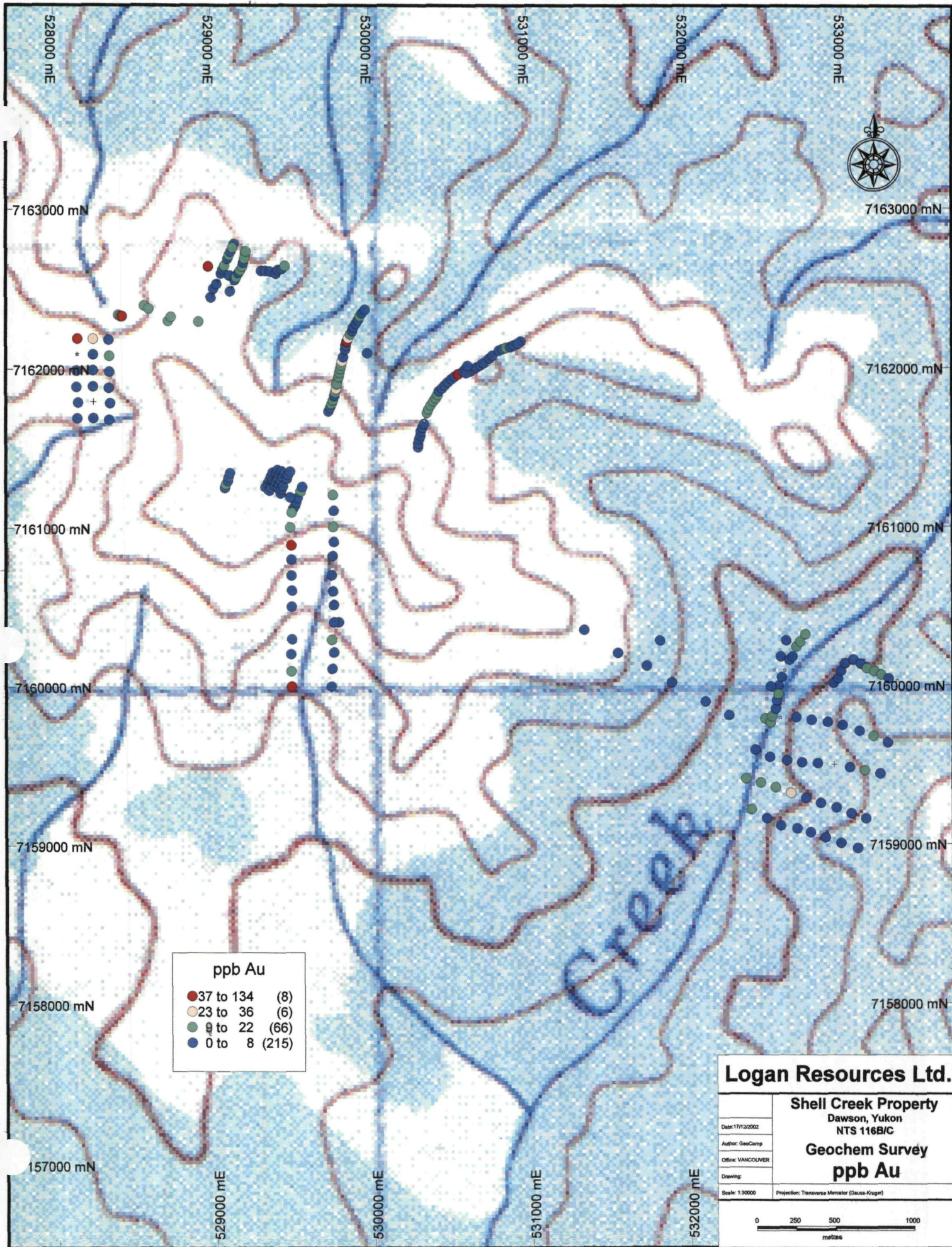
SAMPLE#	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu																										
Location #	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm																										
G-1	1064	7	3	6	8	5	21	3	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	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							
SIO622SS01 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.



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	< 0.1	4	7
SIM06SS01	62	1.9	92.4	17.6	249	365.0	24.3	6.8	8	2	1	6.2	0.8	1	5.6
SIM06SS02	63	.7	54.6	24.0	135	44.3	13.3	2	7	3	1	7.4	0.8	1	6.9
SIM06SS03	64	.8	50.6	10.2	91	25.7	12.6	3	8	2	2	6.3	0.9	1	6.0
SIM06SS04	65	1.2	60.3	16.2	136	110.7	16.9	1.9	7	.2	1	11.7	0.8	1	11.4
SIM06SS05	66	.7	40.2	7.0	68	26.4	6.2	2	4	1	1	6.2	0.3	1	6.0
SIM06SS06	67	.5	23.6	14.1	75	23.1	8.9	3	6	3	1	2.5	0.5	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



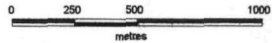
ppb Au	
● 37 to 134	(8)
● 23 to 36	(6)
● 9 to 22	(66)
● 0 to 8	(215)

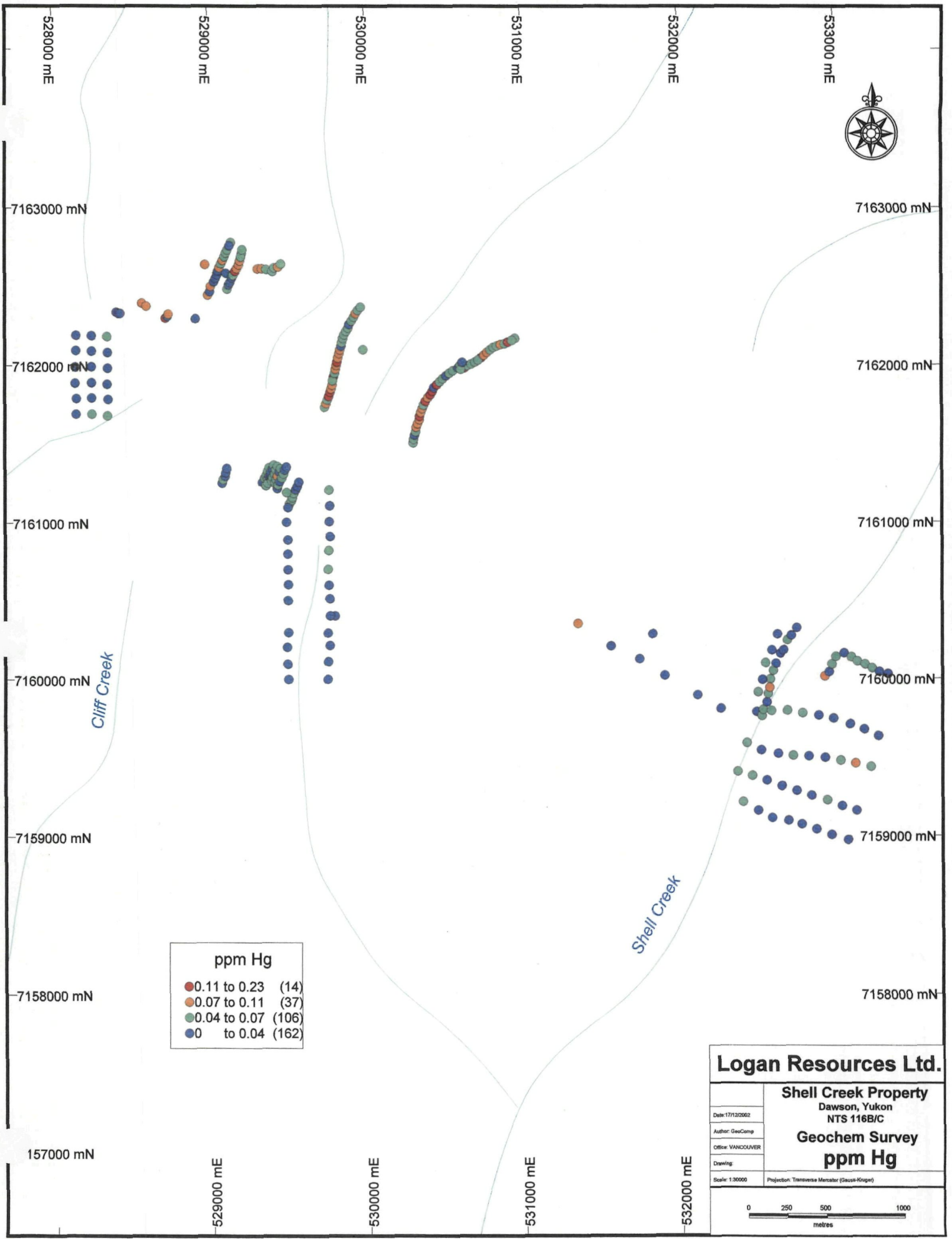
Logan Resources Ltd.

Shell Creek Property
 Dawson, Yukon
 NTS 116B/C
Geochem Survey
ppb Au

Date: 17/12/2002
 Author: GeoComp
 Office: VANCOUVER
 Drawing:

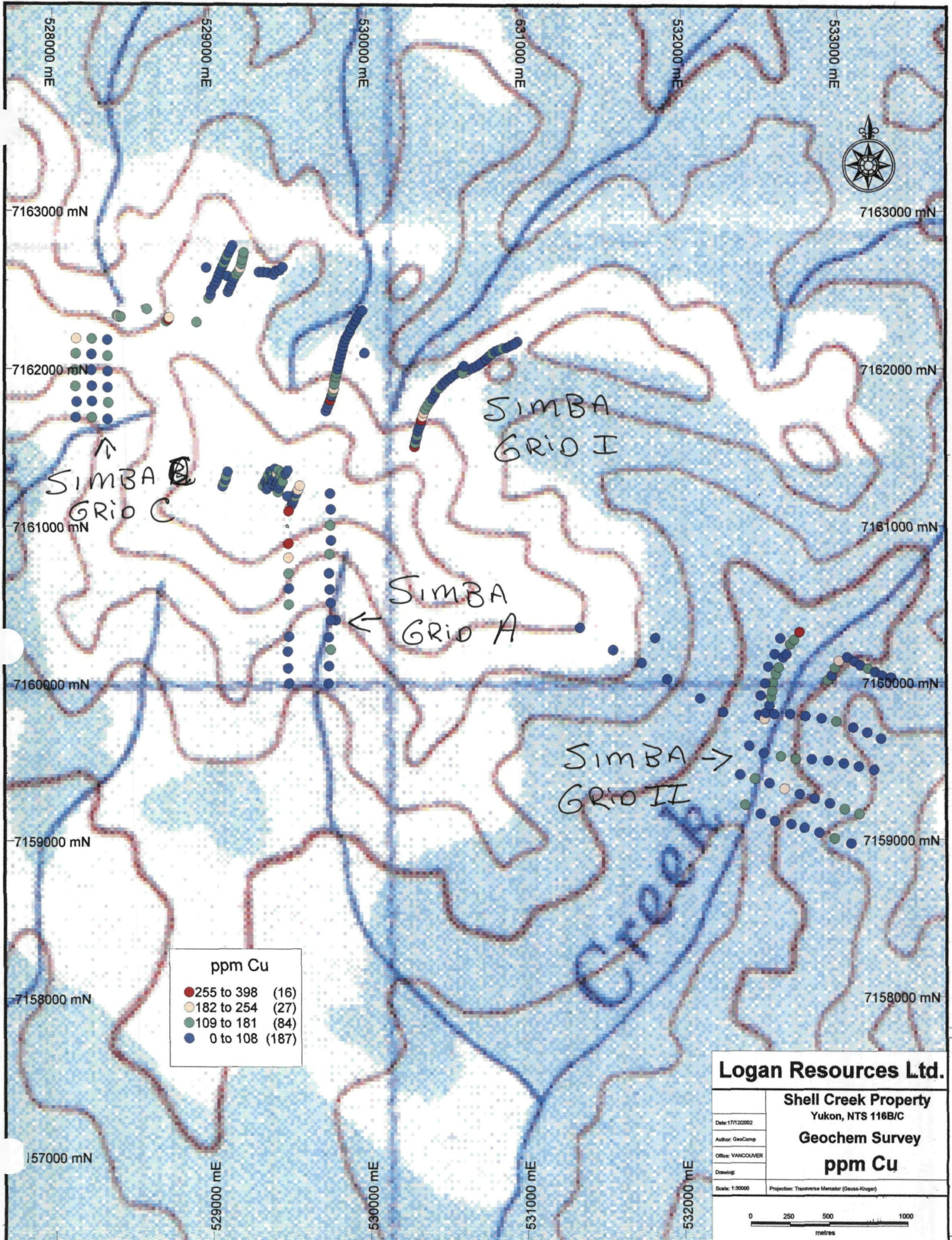
Scale: 1:30000 Projection: Transverse Mercator (Gauss-Krüger)





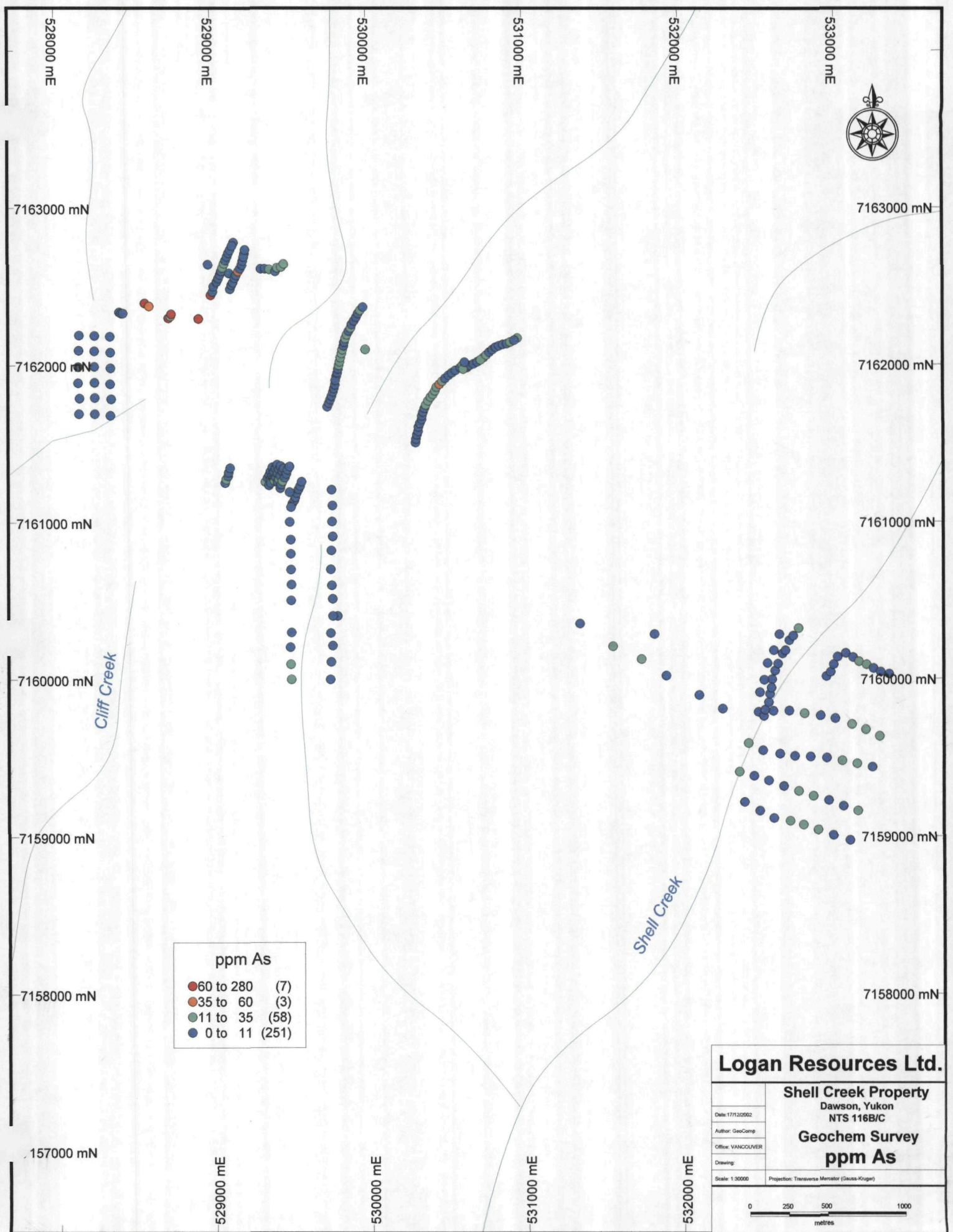
ppm Hg	
● 0.11 to 0.23	(14)
● 0.07 to 0.11	(37)
● 0.04 to 0.07	(106)
● 0 to 0.04	(162)

Logan Resources Ltd.	
Shell Creek Property	
Dawson, Yukon	
NTS 116B/C	
Geochem Survey	
ppm Hg	
Date: 17/12/2002	
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	Projection: Transverse Mercator (Gauss-Krüger)



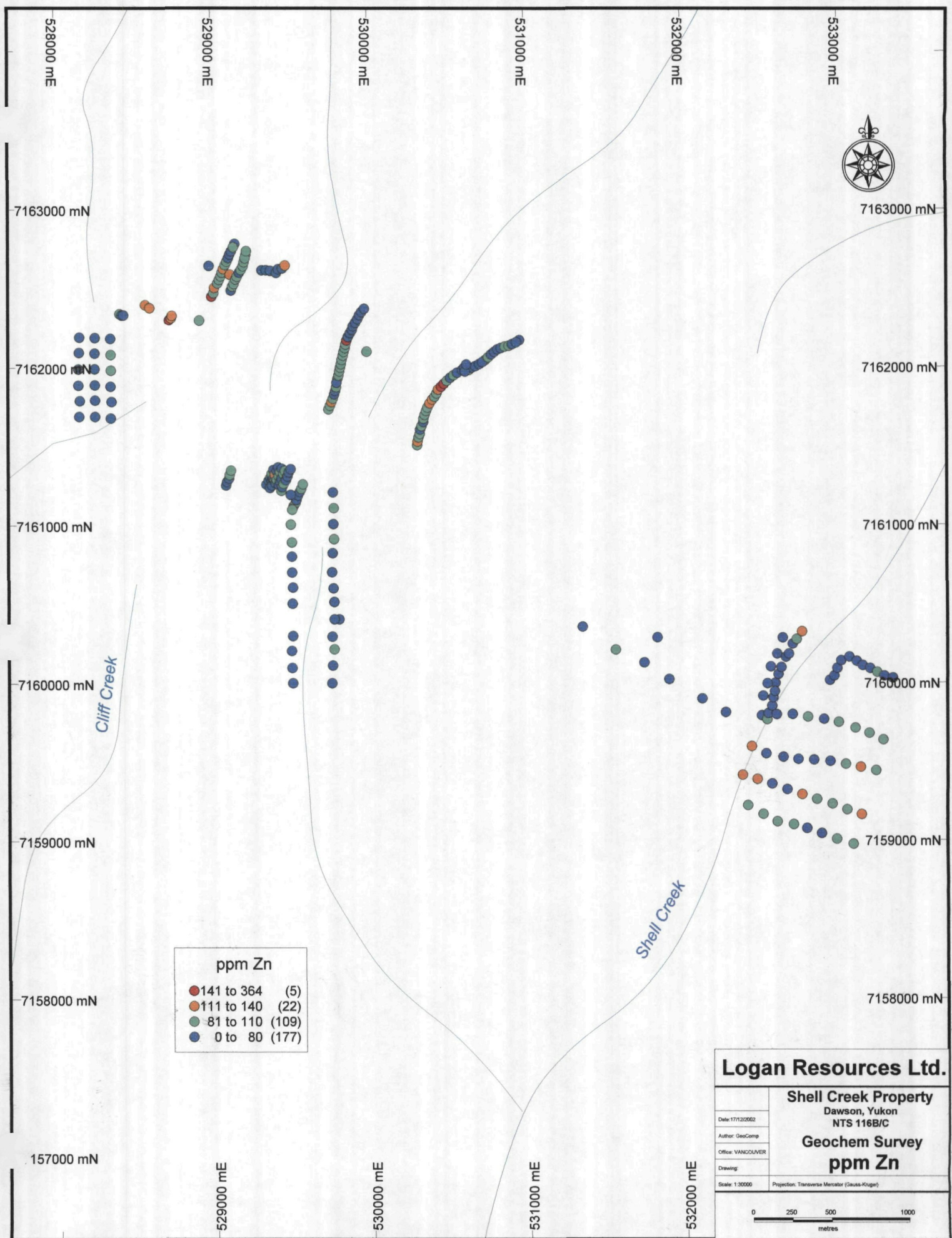
ppm Cu	
● 255 to 398	(16)
● 182 to 254	(27)
● 109 to 181	(84)
● 0 to 108	(187)

Logan Resources Ltd.	
Shell Creek Property	
Yukon, NTS 116B/C	
Date: 17/12/2002	Geochem Survey
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	Projection: Transverse Mercator (Gauss-Kruger)



ppm As	
● 60 to 280	(7)
● 35 to 60	(3)
● 11 to 35	(58)
● 0 to 11	(251)

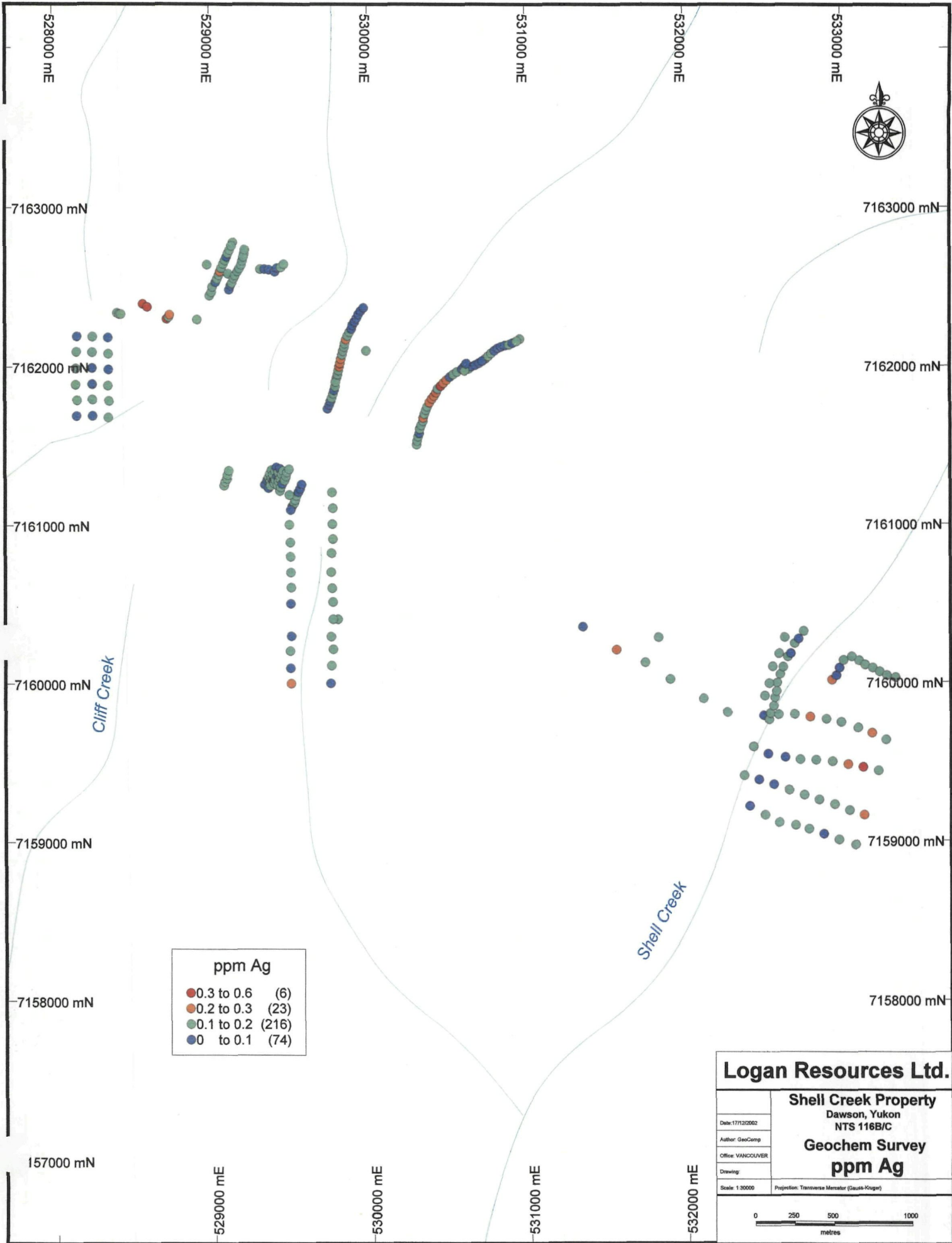
Logan Resources Ltd.	
Shell Creek Property Dawson, Yukon NTS 116B/C	
Date: 17/12/2002	Geochem Survey ppm As
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	Projection: Transverse Mercator (Gauss-Kruger)



ppm Zn

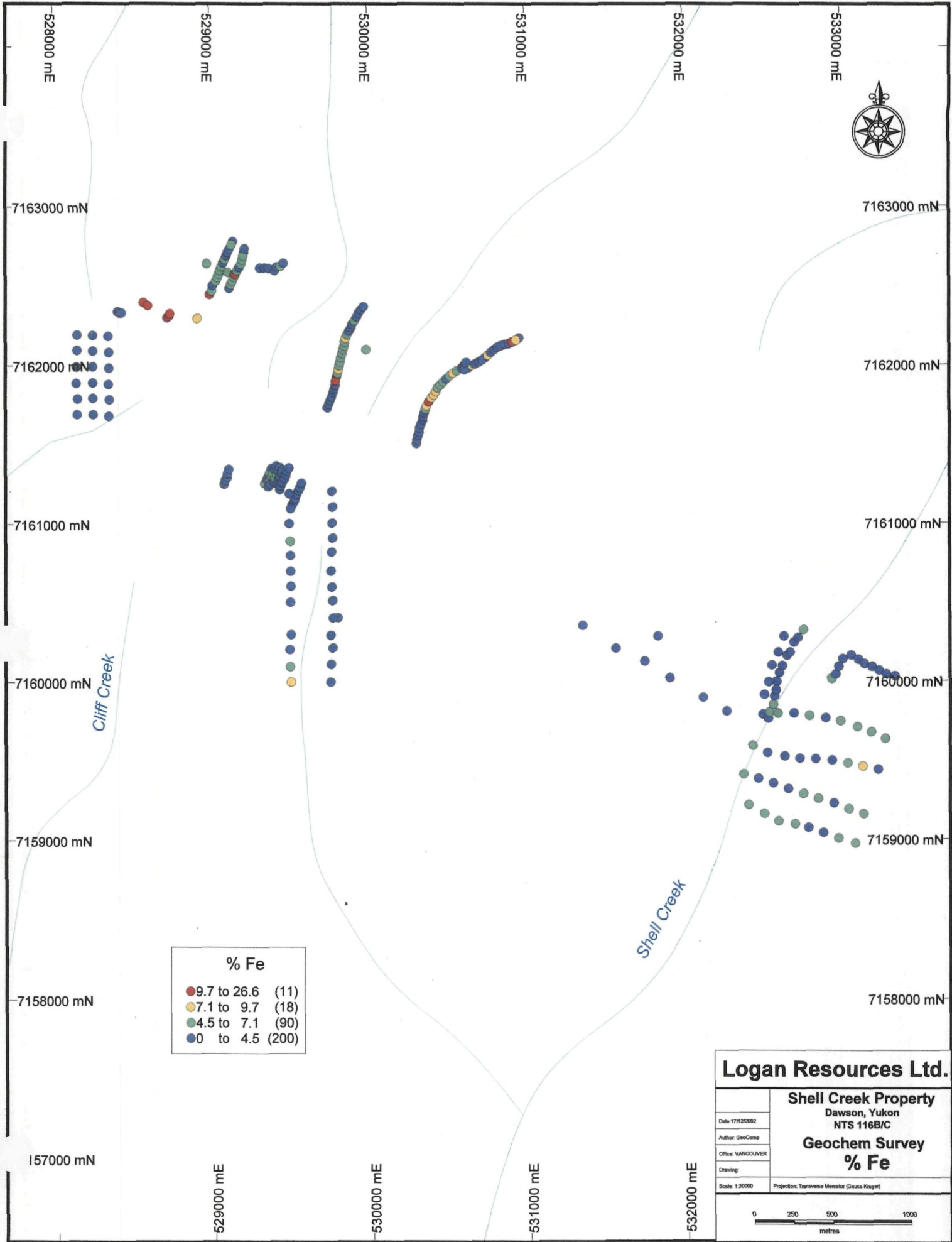
● 141 to 364	(5)
● 111 to 140	(22)
● 81 to 110	(109)
● 0 to 80	(177)

Logan Resources Ltd.	
Shell Creek Property	
Dawson, Yukon NTS 116B/C	
Geochem Survey	
ppm Zn	
Date: 17/12/2002	Projection: Transverse Mercator (Gauss-Kruger)
Author: GeoCamp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	



ppm Ag	
● 0.3 to 0.6	(6)
● 0.2 to 0.3	(23)
● 0.1 to 0.2	(216)
● 0 to 0.1	(74)

Logan Resources Ltd.	
Shell Creek Property	
Dawson, Yukon	
NTS 116B/C	
Geochem Survey	
ppm Ag	
Date: 17/12/2002	Projection: Transverse Mercator (Gauss-Kruger)
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	



% Fe	
● 9.7 to 26.6	(11)
● 7.1 to 9.7	(18)
● 4.5 to 7.1	(90)
● 0 to 4.5	(200)

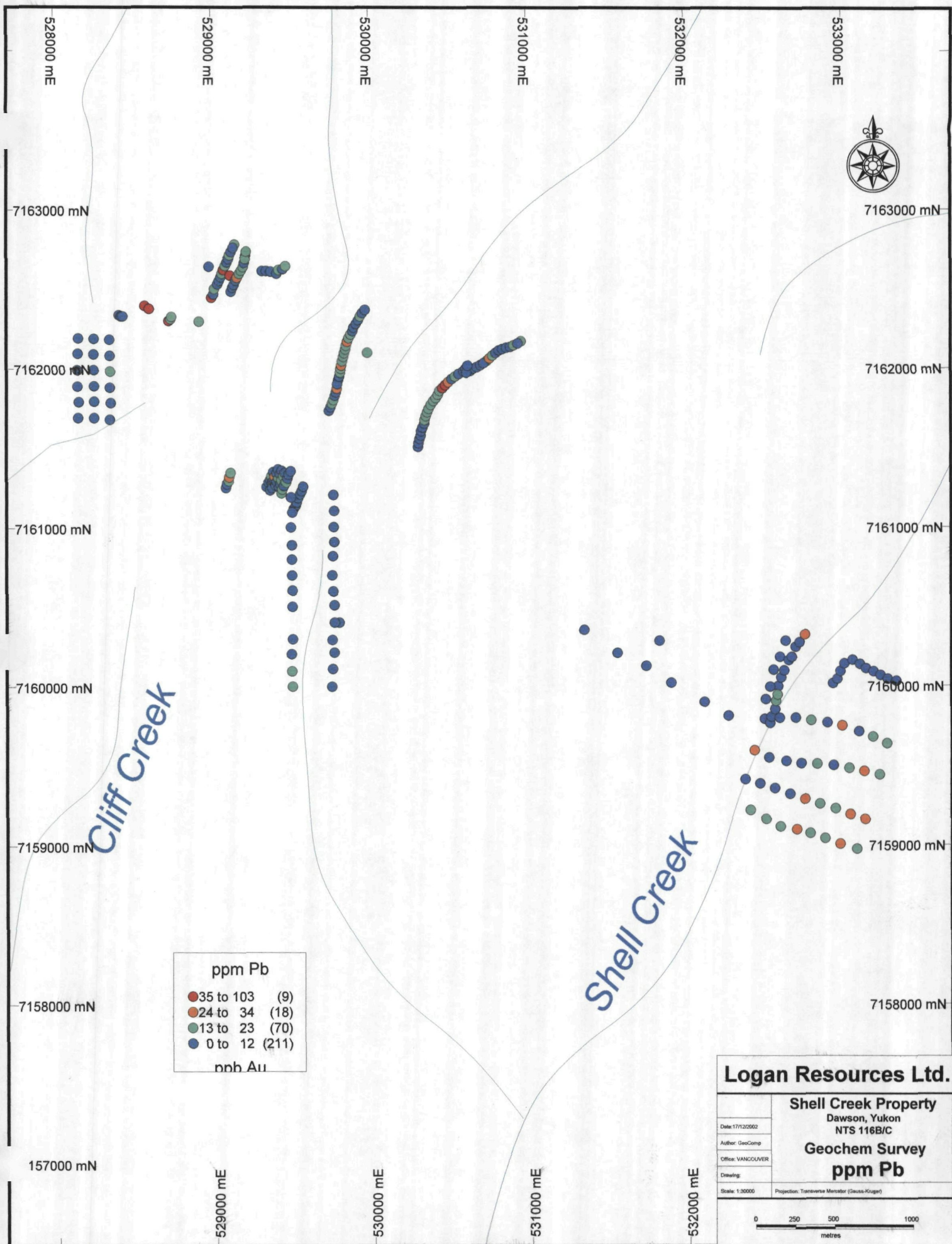
Logan Resources Ltd.

Shell Creek Property
 Dawson, Yukon
 NTS 116B/C

Geochem Survey
% Fe

Date: 17/12/2002	
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	Projection: Transverse Mercator (Gauss-Kruger)

0 250 500 1000 metres



ppm Pb	
● 35 to 103	(9)
● 24 to 34	(18)
● 13 to 23	(70)
● 0 to 12	(211)

ppb Au

Logan Resources Ltd.	
Shell Creek Property Dawson, Yukon NTS 116B/C	
Date: 17/12/2002	Geochem Survey ppm Pb
Author: GeoComp	
Office: VANCOUVER	
Drawing:	
Scale: 1:30000	Projection: Transverse Mercator (Gauss-Krüger)

GEOCHEMICAL ANALYSIS CERTIFICATE

Logan Resources Ltd. File # A205281 Page 1
1022 - 470 Granville St., Vancouver BC V5C 1V5



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga																	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm																	
G-1	18	28	52	44	<1	77	43	549	210	86	17	5	46	96	1	2	2	39	61	081	9	18	1	56	266	146	2	92	103	56	27	09	25	3	<05	5																
SI 2841062339	4	156	4	77	107	1	29	170	1481	274	29	3	15	1	1	22	2	2	34	69	093	10	23	3	85	83	064	2	1	19	005	04	3	03	2	<1	<05	4														
SI 2842262331	6	197	4	105	77	1	34	0	160	1255	267	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	<1	<05	6											
SI 2843462331	6	116	6	10	0	63	1	17	3	96	1040	205	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	<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	095	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	29	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	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	4	5	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	17	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					
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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	6	0	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																				



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	0.80	9	18.0	56	246	150	3	99	109	51	2.9	0.1	2.6	3	< 0.5	5																	
SI 2913862760	6	102	9	65	90	1	45	0	31	8	1764	5	29	4	5	3	10	4	1	6	31	2	3	1	141	32	0.49	7	64	1	1	67	140	101	1	2	18	0.06	11	2	0.3	5	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	0.13	88	2	0.1	2	7	2	<	0.5	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	0.91	14	30	1	1	00	114	0.24	2	1	04	0.05	04	3	0.6	3	0	1	0.6	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	0.08	60	2	0.3	3	0	2	<	0.5	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	0.88	22	37	3	1	47	441	0.32	2	1	75	0.07	12	2	0.6	7	4	1	<	0.5	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	0.99	25	38	0	73	251	0.42	<	1	2	25	0.04	07	2	1.2	6	1	:	<	0.5	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	1.06	15	29	1	97	100	0.40	1	1	57	0.03	05	2	0.7	3	8	1	<	0.5	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	0.91	18	37	7	1	08	111	0.61	<	1	82	0.05	07	2	0.8	5	9	1	<	0.5	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	1.09	17	34	2	97	181	0.63	1	1	62	0.06	10	2	0.7	5	1	2	<	0.5	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	0.75	14	50	5	1	94	145	0.66	3	2	32	0.04	07	3	0.4	8	6	1	<	0.5	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	0.92	11	32	4	1	01	145	0.51	1	1	43	0.07	05	2	0.4	4	0	:	<	0.5	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	0.73	12	47	6	1	32	171	0.47	3	1	99	0.06	05	3	0.4	6	4	1	<	0.5	6				
SI 2932062613	1	9	24	4	10	2	57	1	32	6	38	3	3531	4	28	9	7	5	2	2	2	10	2	6	3	74	10	0.61	11	32	4	37	134	0.65	2	1	53	0.05	05	2	0.8	2	8	2	<	0.5	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	1.91	27	10	1	57	59	0.31	<	1	1	31	0.06	05	1	0.1	1	8	<	1	<	0.5	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	0.9	0.50	12	30	8	36	69	0.61	1	1	42	0.05	05	2	0.7	2	5	1	<	0.5	7			
SI 2935561283	1	0	20	3	9	8	69	<	1	24	1	10	7	367	2	96	9	8	5	:	:	2	2	15	1	7	2	55	17	0.41	12	29	7	55	120	0.53	1	1	49	0.07	06	3	0.4	2	7	:	<	0.5	5			
SI 2936461236	1	4	34	4	9	9	61	<	1	21	5	12	6	699	3	20	10	0	5	1	:	1	0	13	2	6	2	54	13	0.66	15	27	1	49	123	0.41	<	1	1	77	0.07	05	2	0.4	2	4	1	<	0.5	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	0.47	12	26	1	44	100	0.56	<	1	1	45	0.07	05	2	0.4	1	7	1	<	0.5	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	1.35	30	135	7	1	57	104	1.08	3	2	28	0.12	06	2	0.4	8	4	1	<	0.5	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	0.61	11	35	5	47	122	0.41	<	1	2	48	0.07	04	2	0.5	3	3	1	<	0.5	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	1.54	26	20	5	77	123	0.74	<	1	1	78	0.08	07	2	0.5	2	7	<	1	<	0.5	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	0.87	13	18	4	48	88	0.40	1	1	43	0.07	06	1	0.4	1	9	1	<	0.5	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	3.33	35	7	8	73	195	0.68	2	1	76	0.07	13	1	0.1	1	3	<	1	<	0.5	8			
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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



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	Tl %	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	035	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	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	i 45	009	04	2	03	i 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	i <	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
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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	i 66	006	05	2	05	4 4	1 <	05	5
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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
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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
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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
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Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns.



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm			
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SI 3226259810	11	60	47	72	1	40	118	589	332	89	5	34	27	16	2	5	2	68	23	027	10	64	4	86	213	067	1	205	005	03	2	03	37	1	<05	6	
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SI 3240059218	16	159	013	598	<1	56	324	52592	592	59	5	98	80	32	3	7	4	55	54	105	28	51	11	21	261	025	1	244	006	10	1	04	57	1	<05	8	
SI 3242759593	14	88	328	7117	1	62	523	21089	463	159	1	57	30	59	2	12	3	37	94	122	16	43	9	83	118	024	2	131	005	04	2	06	40	<1	<05	4	
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SI 3249259790	9	63	86	371	<1	37	115	8682	288	61	4	94	27	19	1	3	1	51	37	048	10	50	0	82	181	068	2	168	008	04	2	03	35	1	<05	5	
SI 3249859162	13	105	714	6109	1	176	643	6925	639	67	7	28	47	147	2	4	1	125	170	197	20	187	0	296	108	166	2	301	005	28	<1	02	85	3	<05	14	
SI 3250159914	9	78	09	172	1	38	316	3655	314	66	6	89	26	20	2	4	2	59	29	061	12	55	0	86	210	079	1	202	007	05	2	05	41	1	<05	6	
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SI 3252659765	10	204	111	692	1	47	724	51745	378	25	3	17	139	25	2	2	4	40	81	065	19	42	61	24	113	023	1	206	005	05	1	04	59	<1	<05	6	
SI 3253059993	6	44	66	367	1	33	415	1579	283	68	5	78	30	20	1	4	1	58	33	052	11	57	3	82	179	080	4	181	009	03	2	03	36	1	<05	5	
SI 3253559804	13	81	310	171	1	104	222	81282	491	67	4	10	215	81	4	5	2	48	188	084	10	132	71	49	257	031	2	162	006	04	1	06	55	1	10	5	
SI 3255260100	10	59	98	380	1	42	519	7761	349	100	6	83	30	22	3	5	2	73	37	049	12	70	3	92	252	080	2	229	011	05	2	04	47	1	<05	6	
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SI 3255859851	13	41	36	342	1	61	819	51101	545	27	3	22	10	45	1	3	2	59	70	042	11	91	91	03	87	111	1	132	019	04	2	02	32	1	<05	7	
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SI 3258059997	16	124	17	763	1	58	329	65616	311	40	3	68	13	23	3	4	2	44	39	057	12	80	5	95	198	033	2	145	009	03	2	05	36	1	<05	6	
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SI 3259360181	12	58	08	772	1	30	717	8849	294	82	6	61	27	15	2	6	2	59	21	058	11	40	2	72	159	069	3	182	007	04	3	<01	30	1	<05	5	
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SI 3262859526	9	176	18	170	<1	38	115	3881	302	84	4	57	35	15	1	5	2	54	22	049	10	33	1	68	117	092	3	234	008	04	2	<01	38	1	<05	5	
SI 3262960282	13	51	69	366	1	25	313	8734	266	79	6	57	16	14	2	5	2	54	17	076	11	34	2	65	162	049	4	176	008	04	2	03	33	1	<05	5	
SI 3264860160	8	33	15	833	1	12	76	61311	118	11	2	7	47	1	1	1	1	25	19	037	3	19	8	34	29	058	2	67	010	04	2	01	8	1	<05	4	
SI 3265159320	24	196	58	067	1	37	224	13836	282	31	3	24	5	42	17	1	3	13	40	086	17	29	1	61	174	075	3	135	008	04	1	01	33	1	<05	6	
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SI 3269159098	17	86	224	3106	1	145	439	01339	590	228	7	18	71	46	2	24	3	98	41	124	24	124	61	63	111	059	1	252	008	15	1	02	90	2	<05	8	
SI 3269260244	18	170	36	662	1	36	525	22405	188	39	5	11	8	6	39	2	3	2	29	133	094	16	38	4	67	77	015	6	137	006	03	1	06	25	<1	11	4
SI 3271860273	6	156	87	890	<1	47	025	22213	326	38	4	97	30	19	1	2	2	43	44	065	14	39	31	24	82	081	2	189	007	04	2	02	43	1	<05	6	
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Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Br	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	
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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	5i 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		
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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		
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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		
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Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Ti	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Pt	S	Ga											
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm											
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SXA 250100	25	57	915	776	<1	49	523	01944	670	18	2	6	10	7	4	1	20	3	6	24	044	18	61	479	248	039	<1	2	11	008	06	2	01	6	8	2	<05	6								
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SXB 000300	4	168	53	974	1	87	639	2985	483	6	4	2	3	3	7	19	2	2	<1	107	42	040	3	199	61	78	169	228	2	2	66	007	01	1	03	5	1	1	<05	5						
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Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



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	
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SXB 100400	4192	925	79	1	105	649	7	914	474	77	2	11	7	20	3	3	<1	88	40	050	2	216	7	197	79	206	2	296	011	02	1	03	48	1	<05	4
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SXB 200350	1230	815	83	<1	140	048	1	1029	496	19	1	21	3	21	2	1	<1	82	53	012	2	221	2	255	308	251	2	300	003	01	1	<01	55	1	<05	4
SXB 200400	7156	547	71	1	71	330	6	744	448	86	3	31	20	12	1	4	1	95	29	027	6	142	6	159	95	218	2	262	005	03	1	01	57	1	<05	6
SXB 200450	875	646	60	2	58	422	8	727	379	68	3	18	16	14	1	3	1	81	21	046	6	128	5	113	83	164	2	216	007	04	2	01	40	1	<05	6
SXB 200500	4129	929	65	1	101	233	4	781	382	43	2	29	9	18	2	2	1	69	38	043	4	187	9	173	72	124	2	234	004	03	1	<01	42	<1	<05	5
RE SXB 200450	1076	648	59	2	56	721	9	736	358	69	3	33	17	14	1	4	1	81	21	045	6	125	6	114	96	159	5	214	005	03	2	01	40	1	<05	6
SXB 300000	12119	811	96	1	165	842	5	1147	659	80	5	21	62	30	1	6	3	104	54	102	26	200	4	263	137	104	3	331	007	09	1	<01	86	2	<05	11
SXB 300050	28309	210	79	1	95	831	7	1380	815	120	7	12	159	12	1	9	4	78	24	057	26	94	2	188	555	010	4	297	004	07	1	02	119	2	<05	9
SXB 300100	8110	047	69	1	86	828	5	622	442	86	3	15	21	15	<1	4	1	98	24	019	6	158	3	139	196	191	3	273	007	03	2	02	53	1	<05	7
SXB 300150	4148	736	71	2	120	436	7	706	476	54	2	20	15	138	1	2	1	88	41	017	4	193	6	196	94	168	3	287	004	03	1	02	51	1	<05	5
SXB 300200	6108	740	62	1	77	226	2	588	412	57	4	49	20	29	<1	3	1	86	23	015	6	141	7	152	166	195	6	266	008	02	1	01	42	1	<05	6
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SXB 300300	6129	835	67	1	86	630	4	628	432	66	3	22	15	19	1	3	1	86	32	022	5	150	5	148	106	225	3	263	005	03	1	<01	47	1	<05	5
STANDARD DS4	66	120	532	0156	3	33	311	6802	319	23	16	426	437	27	53	50	53	73	52	094	17	161	758	140	091	3	171	030	16	40	27	37	11	<05	6	

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



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga							
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm								
G-1	16	27	25	42	<1	45	37	485	189	8	19	<5	46	101	1	<1	1	40	60	089	9	15	1	53	243	142	2	98	109	50	26	<01	27	3	09	5						
SXB 300350	3	196	5	22	74	<1	113	445	8	49	2	39	12	32	1	3	1	111	43	033	4	209	9	274	109	201	3	3	16	004	03	1	<01	86	1	07	5					
SXB 300400	7	83	3	45	52	1	44	914	6	305	2	68	6	0	4	15	7	14	1	3	1	60	23	039	8	88	3	91	87	083	<1	170	005	03	1	01	26	1	09	4		
SXB 300450	8	86	8	50	56	1	49	918	9	446	2	97	7	3	4	15	2	1	18	1	4	1	60	23	048	8	90	9	88	136	116	1	179	003	03	2	02	33	1	<05	5	
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SXC 000000	6	98	9	45	62	<1	55	421	5	531	3	15	6	9	3	34	17	9	1	3	1	68	25	037	7	101	1	111	58	102	<1	179	005	02	2	02	35	1	06	4		
SXC 000100	4	91	7	32	54	1	54	318	4	434	2	72	4	2	3	13	18	14	1	3	1	56	35	046	7	96	1	118	72	102	1	160	006	02	1	01	37	<1	<05	3		
SXC 000200	5	121	5	40	66	1	73	127	5	702	3	95	5	9	3	34	12	12	2	2	1	80	30	034	6	150	2	166	70	106	<1	223	006	03	1	02	48	1	<05	5		
SXC 000300	5	174	8	44	66	1	75	427	5	817	3	68	6	5	4	30	10	14	2	3	1	78	65	059	7	143	8	164	93	057	2	209	006	02	1	01	80	1	<05	5		
SXC 000400	7	141	8	55	71	1	71	329	3	809	3	69	7	7	4	8	115	13	3	4	1	78	44	056	8	125	7	142	109	081	2	217	008	05	2	03	57	<1	<05	5		
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SXC 100000	9	134	6	52	63	<1	50	920	8	488	3	39	9	0	5	22	27	12	2	5	2	64	21	053	9	90	8	93	72	090	1	206	006	03	3	04	34	1	<05	5		
SXC 100100	5	70	3	51	61	1	51	420	6	535	2	80	4	9	3	<5	6	9	3	3	1	51	24	045	4	91	7	107	65	077	2	154	006	03	1	01	27	<1	<05	3		
RE SXC 100300	6	86	7	77	66	<1	51	120	6	552	3	19	7	1	4	25	18	10	2	3	1	62	27	040	9	94	7	109	90	074	<1	178	004	03	2	02	33	1	<05	4		
SXC 100200	6	75	7	57	67	<1	53	922	8	700	3	23	6	8	3	13	15	11	2	4	1	66	26	039	7	101	4	109	84	103	1	173	007	03	2	01	31	1	<05	4		
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SXC 100400	8	82	7	91	72	1	51	221	3	612	3	37	9	3	4	19	16	10	1	5	2	68	19	047	9	94	8	103	101	078	<1	202	006	04	2	02	36	1	<05	5		
SXC 100500	5	179	7	72	76	1	34	316	8	683	3	13	4	8	4	23	024	14	1	3	2	54	29	071	11	51	7	111	111	095	<1	181	006	06	1	03	35	<1	<05	6		
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STANDARD DS4	6	8128	6	314	160	3	338	118	792	3	2123	5	6	226	3	37	27	5	2	5	1	5	2	78	55	097	16	164	4	59	139	094	<1	172	031	16	4	228	38	11	06	6

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



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Li	S	Ga																		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	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	005	02	1	02	7	9	1	<05	8							
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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						
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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	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

NORTH

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SimBA Claims
1-70
GRID LOCATION
MAP
1-50,000
NAD 27 NTS 116 C/9

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YUKON RIVER

M O U N T

SIMBA CLAIMS

SimBA B

SimBA C

SimBA I

SIMBA II

SimBA A

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AURUM GEOLOGICAL CONSULTANTS INC
3151 - 3rd Avenue, Whitehorse, Yukon Y1A 1G1
Tel: 867-667-4168 Fax: 867-668-2021
Email: aurum@yknet.ca

November 21, 2002

Mr. Seamus Young
Logan Resources Ltd
1022 - 470 Granville Street
Vancouver B.C
V6C 1V5

Re: Property Visit and Recommendations for SHELL CREEK Property

At your request, I have visited the Shell Creek Property with Shawn Ryan on October 23 2002 and have also reviewed all available exploration data from the property

The Shell Creek Property represents an excellent exploration target for volcanogenic gold and base metal mineralization of the Algoma iron formation style. The property was researched by Shawn Ryan and recognized the potential for gold and base metal in association with the iron formation. His research and preliminary exploration work has confirmed these original assumptions.

The property has potential to host deposits of the volcanogenic gold- type (Homestake, Campbell-Red Lake) Associated deposit types include Algoma Iron Formation (previously explored for at Shell Creek), Kuroko massive sulphide deposits, and low- sulfide gold-quartz veins (Bralorne-Pioneer)

It is my opinion that this property represents an excellent grass-roots project with very interesting mineral potential.

The attached brief property summary outlines the property geology, mineralization, and geochemistry

Yours truly,
Aurum Geological Consultants Inc

R. Allan Doherty, P. Geo.



SHELL CREEK PROPERTY SUMMARY

Background

Prospector Shawn Ryan of Dawson City researched the Shell Creek area, and concluded that the geology setting was permissive for VMS and BIF-gold mineralization associated with Algoma style iron formations. Preliminary prospecting, rock, soil, and silt sample geochemistry supports these assumptions. Two preliminary exploration phases have been completed and the samples from the most recent program (312 soil and silt and 60 rock) samples have not yet been analyzed. Geochemical data from 2001 indicate that the property has the appropriate geochemical anomalies to support exploration for both VMS and volcanogenic gold mineralization.

Property and Location

The Shell Creek Property consists of the Simba 1-70 unsurveyed Yukon Quartz Claims. The claims are located approximately 75 km northwest of Dawson City, Yukon, on the northeast side of the Yukon River. The claims are shown on NTS map area 116C-9 at 64° 35' N latitude and 140° 20' W longitude. Access is by helicopter from Dawson. The nearest road is on the southwestern side of the Yukon river, approximately 20 km to the south at the Clinton Creek mine site.

Property History

The property was first staked in 1954 by the Hans and Werner Krause and optioned to Asbestos Corp who explored for iron. It appears that no multi-element geochemical analyses were completed and the copper mineralization is not mentioned in any reports. There are no records indicating that the property was tested for gold or base metal mineralization despite the presence of copper in quartz veins.

Geology

The Shell Creek property is underlain by a sequence of Upper Proterozoic to Lower Cambrian Hyland Group turbiditic clastic sedimentary rocks ranging from quartzites, phyllite, greywacke, conglomerate and limestones. A unit described as epidote-chlorite rock is interpreted as meta basic volcanics. Within this package, a persistent banded magnetite and hematite iron formation can be traced for up to 8 km. The iron formation is best exposed on the north limb of a gently eastward plunging fold, interbedded with chloritic schist and phyllite. Quartz vein material is often present especially near the contact with the iron formation. The quartz veins are commonly mineralized with tetrahedrite and malachite and in one outcrop visible gold was identified.

Intrusions in the area consist of fine-grained light grey porphyritic dykes and a small plug of diorite to granodiorite of unknown age cuts the Upper-Proterozoic-Lower Cambrian sedimentary rocks. The age of the intrusions is not known.

Pyrite and pyrrhotite is found as disseminated halos within banded grey cherts near the iron formation. The presence of the quartz veins and disseminated pyrite-pyrrhotite is commonly noted in BIF-hosted gold deposits.

Geochemistry

One rock, 22 soil and 62 silt samples were collected by Shawn Ryan and analyzed by Acme Analytical Laboratories Ltd in 2001-02. Silt samples reported anomalous Au 7.3-23.5 ppb, Cu 128-180 ppm, Ni 128 ppm, Co 106 ppm, Fe 3.9-015.9%, As 5-14 ppm, Cd 6.5 ppm, and Bi 0.5-1.2 ppm. Soils and rocks show the same suite of anomalous metals.

The Regional Silt Sample data shows a 99 percentile Au anomaly of 47 ppb Au on Shell Creek.

Shell Creek Rock Samples

SAMPLE #	UTM COORDINATES			ELV	DESCRIPTION
	ZONE	EASTING	NORTHING		
SXR029R01	7W	529327	7160879		green volcanic with pyrite
SXR029R02	7W	530015	7160886		siltstone-phyllite breccia with quartz veins and pyrite
SXR029R03	7W	530151	7160820		intermediate hornblende phytic intrusive with pyrite
SXR029R04	7W	530217	7160802		large rusty quartz vein (20 m wide)
SXR029R05	7W	530288	7159712		rusty volcanic
SXR029R06	7W	529918	7161705		Quartz float covellite (?) blue and visible gold
SXR029R07	7W	529919	7161705	1279.6	
SXR029R08	7W	529900	7161867	1239.5	Iron Formation rusty with pyrite
SXR029R09	7W				Iron Formation cherty horizon pyrite
SXR029R10	7W	530157	7161755	1196.7	Iron Formation jasper and green sediment
SXR029R11	7W	530337	7161768	1223.2	Iron Formation with quartz vein
SXR029R12	7W	530433	7161726	1196.2	Iron Formation, fine grained with pyrite
SXR029R13	7W	530450	7160766	1383.7	Quartz rich epidote chlorite rock
SXR029R14	7W	531424	7160695	1163.3	Mafic tuff (lithic) chlorite and epidote rich, malachite staining
SXR029R15	7W	531509	7160840	1112.1	Copper in chlorite veined phyllite minor quartz
SXR029R16	7W	530798	7162072	1201.5	Quartz vein with muscovite and magnetite
SXR029R17	7W	526235	7161842	1101.1	Rusty calcareous phyllite
SXR029R18	7W	534454	7159648	1277.2	rusty fine grained quartz monzonite with pyrite
SXR029R19	7W	528770	7162061	1363.3	Calcite and quartz vein with galena and copper stain
SXR029R20	7W	529893	7162353	1166.7	quartz vein with galena
SXR029R21	7W	529410	7162605	1257.5	quartz vein with copper
SXR029R22A	7W	529120	7162587	1309.0	rusty quartzite contains small acicular laths of Feldspar ?? possible intermediate volc
SXR029R22B	7W	529120	7162587	1309.0	rusty ferricrete
SXR029R23	7W	528986	7162639	1288.5	quartz float rusty quartzite
SXR029R24	7W	529018	7162478	1330.8	Green gabbro, possible pyroxenite carbonate rich calcite-chlorite alteration
SXR029R25	7W	528904	7162292	1322.9	Rusty quartz float
SXR029R26	7W	528754	7162298		grey fine grained siltstone one small mm wide quartz-calcite vein
SXR029R27	7W	528753	7162298	1266.4	Rusty ferricrete fossil Boxwork texture strong limonite and Fe-oxides
SXR029R28	7W	528600	7162370	1191.2	Rusty quartz vein from creek draw
SXR029R29	7W	528583	7162394	1189.5	Quartz in sedimentary rock possible skarn, Cu & Py
SXR029R30	7W	528554	7162418	1176.3	Quartz vein with molybdenum and copper
SXR029R31	7W	528364	7162465	1163.8	Quartz vein with copper
SXR029R32	7W	528359	7162465		V G outcrop quartz vein with green-white mica malachite bornite (?) chlorite clots
SXR029R33	7W	528448	7162300	1223.9	Quartz vein with vg and copper
SXR029R34	7W	529076	7162177	1273.9	rusty iron stained quartz vein
SXR029R35	7W	529214	7162126	1246.0	quartz vein breccia
SXR029R36	7W	529324	7161210	1463.5	Diorite-gabbro intrusion Med grained pyrite cubes to 5 mm
SXR029R37	7W	529523	7161137	1420.2	Green chlorite schist well foliated
SXR029R38	7W	529547	7161167	1439.4	Quartz vein with copper same as R32

SAMPLE #	ZONE	UTM COORDINATES		ELV	DESCRIPTION
		EASTING	NORTHING		
SXR029R39	7W	529804	7161982	1233 5	Iron Formation with quartz and jasper
SXR029R40	7W	529785	7161923	1274 3	Iron Formation with large pyrite cubes
SXR029R41	7W	529780	7161904	1279 9	Iron Formation, with quartz vein
SXR029R42	7W	529823	7161853	1294 3	Green chlorite schist
SXR029R43	7W	529755	7161726		Quartz vein with Copper
SXR029R44	7W	529755	7161725	1358 9	Green chlorite schist, cu staining
SXR029R45	7W	527739	7162693	1239 7	Quartz vein with chlorite and graphite, just above Iron Formation
SXR029R46	7W	533039	7160136	886 7	Quartz vein with Copper and galena
SXR029R47	7W	533663	7160138	863 9	chlorite with quartz vein
SXR029R48	7W	533039	7160136	886 7	chlorite schist, lots of copper
SXR029R49	7W	533663	7160138	863 9	Sediment with large pyrite cubes
SXR029R50	7W	534016	7160092	944 9	Quartz vein float with pyrite
SXR029R51	7W	534016	7160092	944 9	Quartz vein with graphite
SXR029R52	7W	534016	7160092	944 9	Quartz vein with pyrite
SXR029R53	7W	534016	7160092	944 9	Rusty dark shale with pyrite
SXR029R54	7W	534320	7160008	1006 6	Diorite intrusive, trace galena?
SXR029R55	7W	533047	7159836	957 6	Quartz, fine grained pyrite
SXR029R56	7W	533186	7160078	886 9	Hornfels zone with banded hematite
S1R3059561981	7W				Quartz vein breccia with specular hematite
S1R3080562075	7W				Quartz-sericite vein
S1R3074061988	7W				Quartz-sericite vein
R3034561887	7W				Quartz vein with pyrite and graphite no visible copper
R3034461838	7W				Quartz vein in black siltstone pyrite cubes
R3046560882	7W				Quartz vein
AD01-103	7W				Quartz Monzonite intrusion with coarse pyrite

ASSAY CERTIFICATE

Logan Resources Ltd. File # A300159
1022 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Al Doherty

P 02

FAX NO 6042531716

JAN-27-2003 MON 11:00 AM ACME ANALYTICAL LAB

01/30/2003 15:23 FAX 604 689 0288

DONEGAL DEV LTD

05

SAMPLE#	S. Wt gm	NAu mg	-Au gm/mt	DupAu gm/mt	TotAu gm/mt
SI	<1	<.01	.01	-	.01
SXR029R05	480	<.01	.02	-	.02
SXR029R14	440	<.01	.09	-	.09
SXR029R18	514	<.01	.02	-	.02
SXR029R19	493	<.01	.03	-	.03
SXR029R20	492	<.01	.02	-	.02
SXR029R30	495	<.01	.02	-	.02
SXR029R31	473	<.01	.91	-	.91
SXR029R37	445	<.01	.02	-	.02
SXR029R43	479	.01	.15	-	.17
SXR029R46	483	<.01	.10	11	.10

-Au .150 Au BY FIRE ASSAY FROM 1 A 1 SAMPLE. DUPAU: Au DUPLICATED FROM 150 MESH NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
SAMPLE TYPE ROCK #150 60c

DATE RECEIVED: JAN 21 2003 DATE REPORT MAILED: *Jan 24/2003* SIGNED BY: *[Signature]* .O TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Return the cost is EXT to be around \$1,500

[Signature]

P. 02

FAX NO. 8042531716

JAN-29-2003 WED 02:09 PM ACME ANALYTICAL LAB

01/30/2003 15:23 FAX 804 689 0288

DONEGAL DEV LTD

Rock ASSAY

03

180,000 Accredited Co. ANALYTICAL CHEMISTRY
 180,000 Accredited Co. ANALYTICAL CHEMISTRY
 180,000 Accredited Co. ANALYTICAL CHEMISTRY

SAMPLE#	Hg	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Ni	Al	Si	Sr	Ca	P	La	Cr	Hg	Ba	Ti	Al	Ka	K	W	Zr	Sn	Y	Mo	Be	Sc				
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
SI	<	4	12	15	<5	2	<2	27	09	0	<10	<4	<2	171	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R01	<	348	6	92	<5	114	48	1407	7.95	6	<10	<4	<2	23	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R02	<	246	5	100	<5	639	109	2804	12.10	6	<10	<4	<2	113	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R03	<	9	27	106	<5	65	21	1434	6.19	6	<10	<4	9	268	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R04	<	8	5	4	<5	8	2	1450	66	6	<10	<4	2	5	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R06	<	908	8	6	<5	6	<2	641	52	6	<10	<4	<2	35	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R07	not received																																		
SXR029R08	<	23	25	8	20	<5	14	1121	25.54	6	<10	<4	2	16	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R09	<	14	8	15	<5	10	5	2052	20.69	6	<10	<4	<2	536	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R10	<	660	8	114	<5	76	225	9999	12.83	5	<10	<4	4	79	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R11	203	52	6	8	<5	8	23	326	8.35	6	<10	<4	<2	11	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R12	16	89	48	25	<5	34	89	981	36.20	9	<10	<4	2	106	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R13	2	26	<5	42	<5	70	22	1165	3.92	7	<10	<4	<2	29	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R15	<	16944	8	123	13	80	33	2763	5.46	6	<10	<4	2	63	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R16	2	22	<5	19	<5	21	14	3231	11.38	6	<10	<4	2	8	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R17	<	99	<6	62	<5	101	37	1097	6.20	28	<10	<4	<2	132	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R21	2	13	<5	35	<5	23	17	1068	2.08	6	<10	<4	3	9	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R224	<	21	112	98	<5	4	2	737	2.98	6	15	<4	97	83	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R226	<	51	172	81	<5	11	4	247	11.68	6	<10	<4	62	63	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R23	2	52	<6	8	<5	8	6	333	1.68	6	<10	<4	<2	6	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R24	<	123	5	110	<5	175	52	1688	8.90	6	<10	<4	8	1049	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R25	2	12	<5	8	<5	6	<2	79	89	6	<10	<4	<2	3	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R26	<	3	<5	40	<5	15	7	1872	4.40	9	<10	<4	<2	226	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
RE SXR029R26	<	2	<5	36	<5	15	7	1718	4.09	11	<10	<4	<2	219	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R27	<	341	7	76	<5	35	10	1833	46.46	12	<10	<4	5	18	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R28	<	27	<5	85	<5	26	6	287	1.50	6	<10	<4	<2	4	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R29	<	57	<5	43	<5	14	9	1426	17.85	5	<10	<4	2	59	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R32	2	7842	33	36	3	12	8	564	1.58	6	<10	<4	<2	17	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R33	not received																																		
SXR029R34	2	23	<5	12	<5	19	2	632	2.46	6	<10	<4	<2	4	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R35	<	39	<5	39	<5	10	2	739	1.27	6	<10	<4	<2	154	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R36	<	41	6	143	<5	6	21	1468	8.09	21	<10	<4	4	513	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R38	<	1521	11	21	<5	23	6	2838	1.00	6	<10	<4	<2	155	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R39	105	39	6	24	<5	21	18	1828	28.76	6	<10	<4	2	35	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
SXR029R40	20	14	<5	7	<5	15	8	913	24.94	11	<10	<4	<2	22	<4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
STANDARD US14	7	122	36	175	<5	38	13	1015	4.04	24	<10	<4	6	242	6.3	6	5	136	1.56	101	25	264	92	1036	38	6.64	1.86	1.99	7	47	6	14	10	3	9

GROUP 1E - 0.25 GR SAMPLE DIGESTED WITH HClO4-HNO3-HCl-HF TO 10 ML. UPPER LIMITS - AS, AU, W = 200 PPM; MO, CO, CD, SB, BT, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AG, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATILIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
 - SAMPLE TYPE: ROCK RTSD 60C Samples beginning 'RE' are Return and 'REF' are Reject Returns.

DATE RECEIVED: JAN 27 2003 DATE REPORT MAILED: Jan 29/2003 SIGNED BY: [Signature] .D. TOYE, C. LEONG, J. WANG, CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liability...



P. 03

FAX NO 8042531718

JAN-29-2003 WED 02:10 PM ACME ANALYTICAL LAB

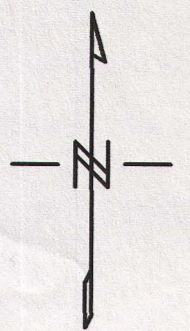
SAMPLE#	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Y	Al	Na	K	W	Zr	Sn	Y	Mo	Be	Pb	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SKR029R41	<2	8	<5	21	<3	17	12	344	31.22	<5	<10	<4	<2	74	<4	<5	<5	96	95	0.42	7	32	.57	74	.82	.70	.02	.07	<4	<2	<2	7	<2	1	5	
SKR029R42	<2	1996	13	179	.5	52	39	1738	5.04	<5	<10	<4	10	159	<4	<5	<5	150	1.38	.005	35	53	2.10	486	.63	8.21	1.82	2.19	<4	4	3	38	17	2	21	
SKR029R44	<2	2137	11	193	.8	123	46	2364	7.70	<5	<10	<4	7	61	<4	<5	<5	141	4.34	.199	62	131	3.94	96	1.26	5.84	.64	.21	<4	9	2	29	36	1	15	
SKR029R45	<2	124	11	128	<5	52	35	1188	8.66	<5	<10	<4	10	30	<4	<5	<5	233	97	.058	37	75	1.88	648	.70	7.13	.04	3.58	<4	4	1	32	18	4	24	
SKR029R47	<2	5731	17	475	2.0	207	157	9999	14.36	<5	<10	<4	<2	<4	<4	<5	<5	120	15	.023	<2	18	7.07	39	.03	9.27	.02	.14	<4	<2	<2	<2	<2	2	3	
SKR029R48	<2	16238	9	213	3.4	70	43	9999	6.86	<5	<10	<4	8	48	<4	<5	<5	216	57	.055	42	138	3.85	103	50	7.55	1.79	.42	4	9	2	22	12	3	20	
SKR029R49	<2	175	<5	109	<3	68	41	1627	9.19	<5	<10	<4	7	444	<4	<5	<5	162	4.98	.424	66	120	3.83	92	24	7.39	1.86	.75	4	28	<2	17	12	2	13	
SKR029R50	<2	45	11	32	<5	5	<2	626	54	8	<10	<4	2	1328	<4	<5	<5	5	18.66	.018	6	6	.24	28	.01	.39	.23	.07	<4	2	<2	53	<2	<1	2	
SKR029R51	<2	22	41	120	<5	15	4	984	2.00	9	<10	<4	2	1736	.6	<5	<5	12	15.37	.106	10	16	2.53	58	.02	.97	.10	.42	4	15	<2	32	<2	<1	4	
SKR029R52	<2	15	8	16	<5	8	5	1224	2.75	<5	<10	<4	<2	658	<4	<5	<5	<2	8.68	.019	2	11	25	15	<0.01	.79	.07	.05	4	<2	<2	12	<2	<1	1	
SKR029R53	<2	65	24	129	<5	34	16	505	4.16	<5	<10	<4	18	34	<4	<5	<5	119	.27	.054	29	73	2.27	430	.17	6.54	.19	3.01	44	42	3	7	3	3	13	
SKR029R54	<2	41	<5	67	<5	70	22	718	4.90	<5	<10	<4	<2	238	<4	<5	<5	178	3.95	.006	92	120	3.30	321	.91	6.79	4.59	.73	4	18	<2	14	13	1	16	
RE SKR029R54	<2	39	<5	70	<5	71	22	745	4.91	<5	<10	<4	<2	241	<4	<5	<5	160	3.71	.097	13	137	3.27	333	.87	6.83	4.80	.74	4	18	<2	13	13	1	16	
SKR029R55	<2	11	13	49	<3	13	5	931	1.52	20	<10	<4	3	3620	<4	<5	<5	30	25.88	.068	11	18	1.91	127	.84	1.66	.14	.76	44	18	<2	17	<2	<1	3	
SKR029R56	<2	6	18	108	<3	247	396	9999	7.74	29	<10	<4	7	171	.4	<5	<5	33	6.98	.047	24	54	1.38	253	.58	5.15	1.60	.69	4	4	2	36	16	1	17	
SR0309561981	<2	42	6	15	<5	6	4	774	8.38	<5	<10	<4	<2	9	<4	<5	<5	11	.26	.008	<2	16	.11	16	.01	.28	.05	.07	4	<2	<2	<2	<2	<1	2	
SR0309562073	<2	1642	143	40	.8	82	38	3198	3.75	<5	<10	<4	<2	56	<4	<5	<5	7	91	1.28	.014	6	20	72	265	.07	2.62	.05	1.28	6	3	2	6	4	4	
SR03074061988	<2	893	6	9	<3	9	2	976	.65	<5	<10	<4	<2	4	<4	<5	<5	5	.09	.014	<2	17	.17	33	.03	.25	.02	.07	4	2	<2	<2	<1	3		
R3034561867	17	46	6	34	<5	8	2	434	3.28	<5	<10	<4	<2	32	<4	<5	<5	26	1.12	.034	13	28	.48	27	.11	.74	<0.01	.02	6	<2	<2	3	2	<1	3	
R3034461838	4	28	6	66	<5	38	13	2063	16.57	<5	<10	<4	3	216	<4	<5	<5	210	10.32	.185	14	119	2.86	72	.88	3.86	<0.01	.86	4	<2	<2	17	11	3	17	
R3044560882	<2	4	6	66	<5	87	28	2205	7.67	8	<10	<4	<2	121	.5	<5	<5	61	11.34	.008	3	18	3.85	13	.01	1.03	.11	.70	4	11	<2	16	<2	<1	11	
AD01-103	2	27	14	30	<5	5	3	366	2.75	6	<10	<4	33	867	<4	<5	<5	60	1.98	.089	95	8	53	2155	.28	7.83	2.97	3.66	4	36	2	19	18	4	4	
STANDARD DQ14	7	124	35	174	<5	19	13	975	4.09	24	<10	<4	6	261	5.1	6	5	129	1.52	.101	25	263	.87	1047	.17	6.32	1.83	1.92	8	45	6	14	9	3	9	

Sample type: ROCK R150 GOC. Samples beginning 'RE' are Repeats and 'RR' are Reject Returns.

Rock Assay.

532000E

533000E



ASTRO
26 E Declination

716000N

716000N

7159000N

7159000N

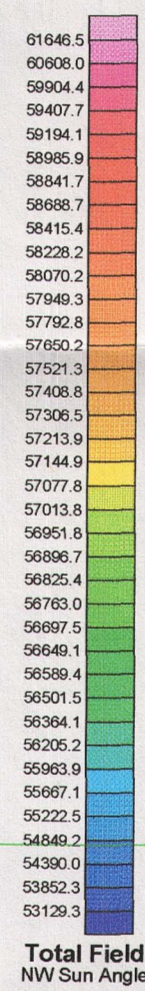
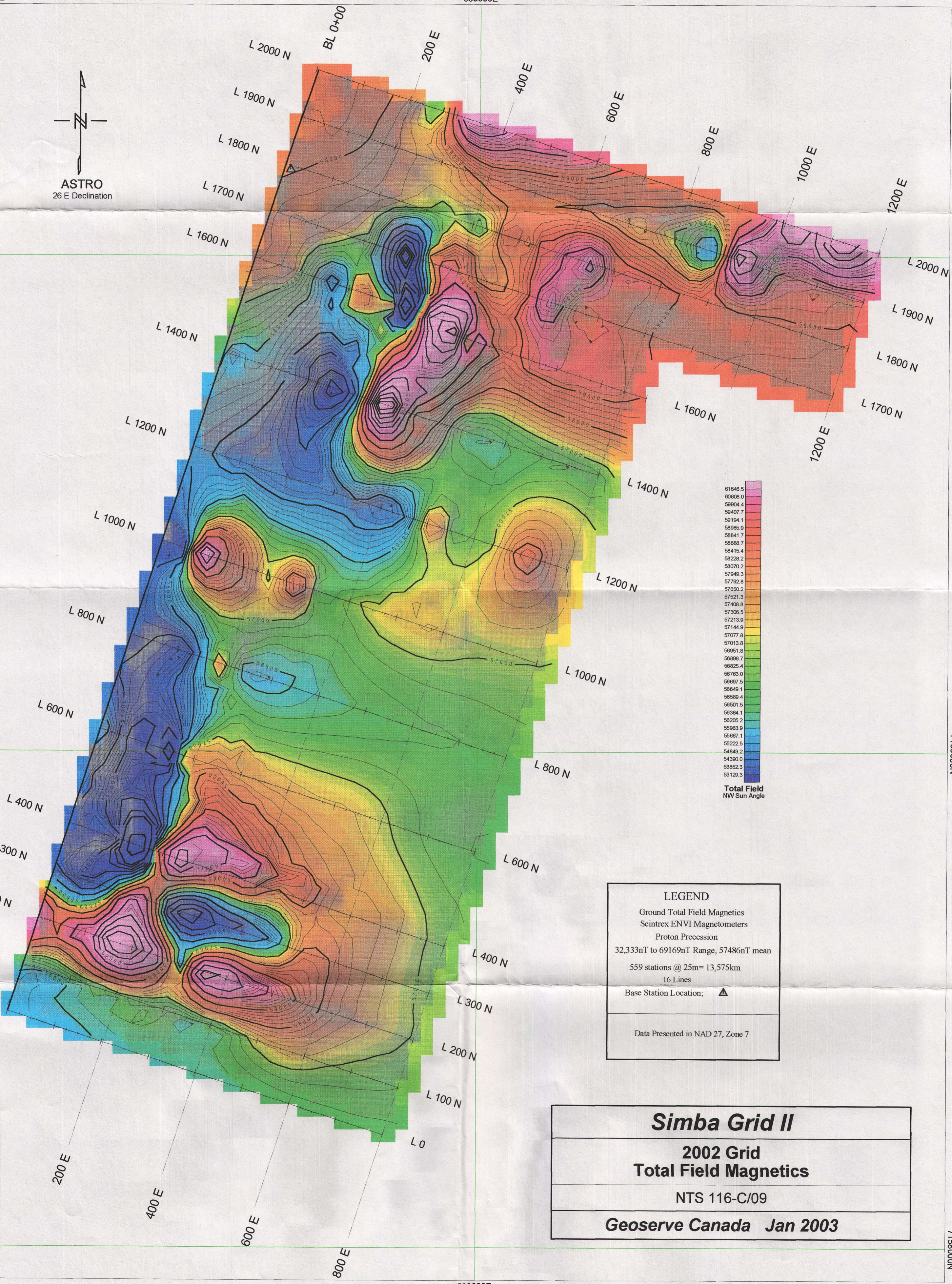
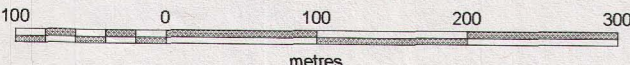
7158000N

7158000N

532000E

533000E

Scale 1:5000



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

Simba Grid II

2002 Grid

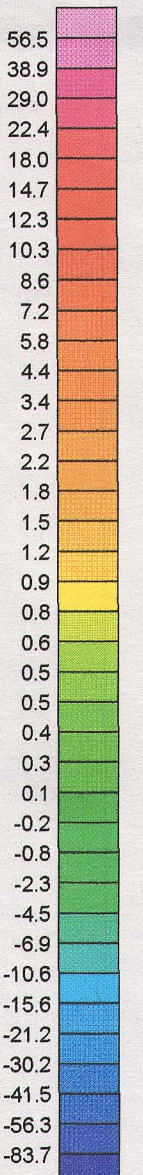
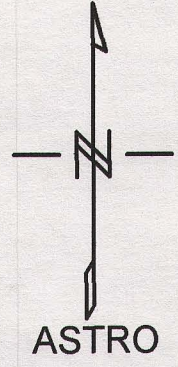
Total Field Magnetics

NTS 116-C/09

Geoserve Canada Jan 2003

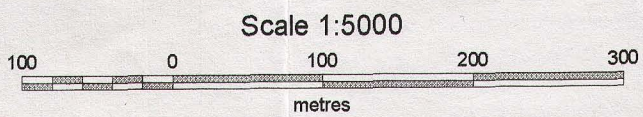
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PO BOX 2733
WATERLOO, YUKON Y1A 2G8

Simba Grid I
 2002 Grid
 First Vertical Derivative
 NTS 116-C/09
 Shell Creek Area, Yukon
 Geoserve Canada Jan 2003



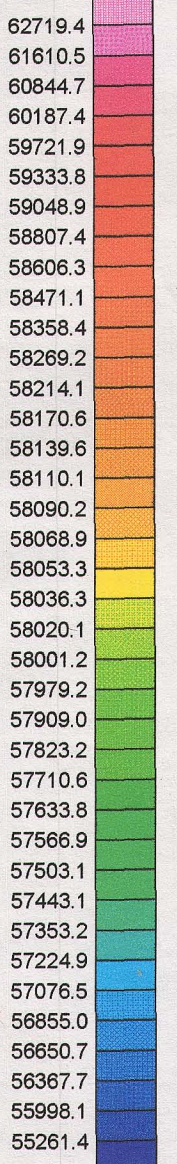
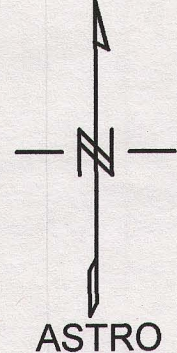
LEGEND
 Ground Total Field Magnetics
 Scintrex ENVI Magnetometers
 Proton Precession
 1084 Readings @ 25m = 26,450Km
 20,166nT to 72,334nT Range, 58241nT mean
 Base Station Location

Magnetically Inferred Fault

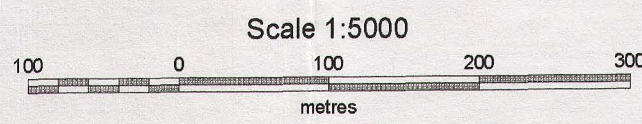


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Simba Grid I
 2002 Grid
 Total Field Magnetics
 NTS 116-C/09
 Shell Creek Area, Yukon
 Geoserve Canada Jan 2003



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



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 116-09-0001 1/14/2008

