GEOPHYSICAL SURVEY / SOIL SURVEY

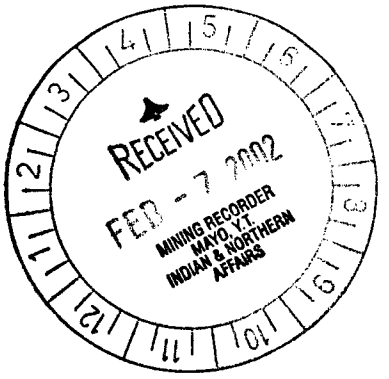
CALLUM 1-8

094279

GRANT # YCO1939-YCO1942

GRANT # YCO2339-YCO2342

NTS # 115 P / 15



LATITUDE 63'47'00 N

LONGITUDE 136'59'00 W

OWNER : SHAWN RYAN

MAYO MINING DISTRICT

AUTHOR OF REPORT SHAWN RYAN

DATE OF WORK AUGUST-SEPTEMBER 2000

DATE OF REPORT JANUARY 2002

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 15,000.

M.B.

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

TABLE OF CONTENT

SUMMARY

The Callum 1-8, and Alpine 1-38 claims, grant # YCO1939-YCO1942, YCO2339-YCO2342, YCO1902-YCO1938 registered in the Mayo Mining District to Shawn Ryan. Callum 1-6 will be renewed for 3 years. Callum 7-8 and Alpine 1-38 will be renewed for 2 years. A magnetometer survey on the Callum 1-6 claims has revealed a pyrrhotite body running along the ridge top. Soil sampling along the anomaly have revealed anomalous value in Au, Cu and Bi.

INTRODUCTION

A soil survey and two geophysical survey where done on the Callum 1-6 claims. The grid was establish to cover a anomalous gold, copper and bismuth anomaly found in soil and rocks on a ridge top overlooking the Vancouver creek drainage during the summer of 1999.

LOCATION

The Callum claims are located 35 miles north west of the community of Mayo. The claims cover a ridge top at the head waters of Vancouver creek.

ACCESS

Access is via helicopter from Mayo or from Dawson City. You can also gain access by foot from a placer miner road that comes within 1 mile to the south of the Callum claims. The road access starts off the Klondike highway just west of the Mcquesten river bridge. You can travel up this dirt road which Leads to placer miner operation on Vancouver creek. The closest location to the Callum claims are at the end of the placer miner road which is located at the head water of Vancouver creek.

PROPERTY GEOLOGY

The Callum claims lie in what Don Murphy(YTG geologist) calls the Yusezyu Formation of the Tombstone Strain Zone. This rock unit comprise of foliated and lineated muscovite-chlorite phyllite, quartzofeldspathic and micaceous psammite, gritty psammite, rare calc-silicate rock and marble. I talk to Don Murphy personally and he explain that there is a carbonate rich belt within the Yusezyu Formation extends from the Clear Creek map area in the west across Sprague Creek and into Seattle Creek map area. This is exactly the horizon that I targeted on the Callum Claims. I also noted a Lamprophyre dike running north-south on Callum #7. I noted felsic intrusion dike or sill running north-south on the southern edge of Callum claim #1.

WORK METHODS

GRID WORK

I establish a grid with Scott Fleming during the second and third week of August 2000. The grid consist of establishing a base line running north east along the ridge top where most of the showing appear. I started the grid line 000 and station 000 at post # 2 of Callum 3/4. The base line ran south west for 600 meters and north east for 200 meters. I place lines going north-west and south-east for 250 meters. The lines where put in every 50 meter with station every 50 meter. The station where mark with small wired pickets with orange flagging on top. The station and line number where mark on flagging with a black waterproof marker. A total of 10.2 kilometer of grid was establish.

SOIL SURVEY

The soil survey proceeded one's the grid was establish. Soil sample where taken every 25 meter. The soil was taken from 6-12 inch below the surface in the B-horizon. I also took orientation survey of what different soil horizon may give in gold value. This prove very useful as to it pointed out that normal B-horizon sample can give very low gold value and that taking deeper sample such as 4-5 feet below surface increase the gold number 50 fold. I took a normal B-horizon soil on a magnetic anomaly target and it gave me a value of less than 5ppbAu, 18ppmCu, and 2ppm Bi(GAL-TS-01). The soil 5 feet down was in a rusty horizon (GAL-TS-02)and it gave me a value of 50ppb Au, 34 ppm Cu, and 108 ppm Bi. As we can see there a large discrepentcy. This led me to believe that running all soil taken off the grid would do no help and that selective assaying is much more appropriate. I have process certain lines across the known anomalous zones. I have also process line 600 south see if any soil anomalies are leaving the grid area.

GEOPHYSICAL SURVEY

MAGNETIC SURVEY

A ground magnetic survey was performed on the Callum 1-6 claims during the first week of September 2000. The instrument used was a proton magnetometer called Scintrex MP4. A mag survey has to take in to account the daily drift which is a product of solar flare so most survey use a second magnetometer and take reading every 30 seconds to watch the drift and correct difference or you can run a base line survey for tie in purpose. The base line survey is the method I used for tie in purpose. Running a base line survey for tie in purpose on the Callum claims consist of starting at line 200 north station 000. I took a reading at this point and this is the reading that the whole grid will be tied into. From this point I took reading every 25 meter down the base line till I reach line 000 station 000. I then proceed back to my first reading and then re-read the station and note time. This give me the magnetic drift across the 200 meter and time. I proceeded back to line 000 and station 000 and continued on doing 200 meter interval and returning for tie in. This way I could tie in the whole base line in to my starting point.

Now that my base line was established I could start the mag survey on the established lines. The lines are run by starting to take a reading at exactly the same reading spot the base line survey was taken. This is the most critical part of this survey since taking a reading even 6 inch from the known base line survey mark would give a different value and potentially throw out your tie in values. For this reason I took great care in the base line survey and also in every tie in spot. I would some time take a number of reading in tie in spots just to be confident of the reading.

The lines where run by taking reading every 25 meter but when any anomaly where noticed I would take reading every 12.5 meters.

The survey was originally going to be run with lines every 100 meter but I found numerous pyrrhotite float so I decide to run a tight grid and put in lines every 50 meter. This led to a very detail survey with good resolution.

VLF SURVEY

A VLF survey is very low frequency electro magnetic survey. The VLF instrument pick up signal from various station located around the world. These low frequency are design to help in navigation mostly for submarines. The exploration industry has been working with this technology for the last 30 or so years. This survey helps the exploration business in picking out structures and potential massive sulfide deposits. The only problem with this survey is the location of station, for a good coupling to the conductor or structure, your station has to be along strike. I tried two different station Seattle, Washington and Cutler, Maine. Cutler seem to give the best and strongest signal.

The survey read 8.5 kilometer of line. Reading where read every 25 meter. I have provide all reading in the appendix of this report.

INTERPRETATION

SOIL SURVEY

The soil survey pointed out a nice gold, bismuth, copper and silver anomaly. Surprising there also a lead , zinc and arsenic anomaly that still unexplained.

MAGNETIC SURVEY

The magnetic survey has revealed four magnetic anomalies. Anomaly A is centered on L-000,ST-150W. The anomaly is 150 meter long by 100 meter wide. This anomaly is range from a high to 60785 gammas to a low of 54538 gammas. The nature of such a big difference is from high to low is cause by the pyrrhotite mineralization in surrounding rock.

Anomaly B is center on L-000 and ST-50E. This anomaly is about 50 meter wide and 300 meter long. It trends north-south. It's high reached 59007 gammas to a low of 56150 gammas. Again this magnetic anomaly follows a pyrrhotite rich rock unit.

Anomaly C is center on L-350S, ST-100W. This anomaly about 200 meters by 50 meters. The high reached 58975 gammas to a low of 55404 gammas. This anomaly covered pyrrhotite rich rock unit.

Anomaly D is centered on L-400S, ST-200E. This anomaly is a long and narrow. It's 200 meter by 50 meter and striking in a north-south direction. The high reached 58697 gammas to a low of 56520 gammas.. The nature of this anomaly is pyrrhotite rich rock unit.

V.L.F. SURVEY

The VLF survey gave disappointing results. There seem to be no real nice EM anomalies. I feel we should have seen some nice anomalies because of the pyrrhotite magnetic rock. The VLF pattern reflects more the topography with the reading rising in the west and gradually decreasing in the east. The ridge top was centered around the baseline 000.

I think better results would be obtain by using another station. I used Cutler Maine. I tried Seattle, Washington but felt the numbers look better for Cutler. The nature of the mineralization may be that it's lying flat and this would also explain why there no well define anomaly.

RECOMMENDATIONS

The work on the Callum 1-4 claims has revealed a new Au, Cu Bi showing. The nature of the pyrrhotite mineralization makes it a nice magnetic target as was pointed out by the magnetic survey. I feel the property merits further work. I would propose a larger grid with magnetic work. I would also recommended a deep soil survey over any targets found. There still some follow up work that needs to be done on the magnetic targets. A 5 foot pit was dug on Anomaly A and a soil test showed that no detection of Au appeared on surface but 5 feet down 50 ppb Au was detected. This prove that deep soil survey are a must and should be part of the next round of work on the Callum 1-6 claims.

QUALIFICATION

I have 19 years in the exploration business. I have being actively involved in prospecting in the Yukon for the last seven years. I have run geophysical survey such as Magnetic and VLF survey for over 18 years.

I own 100% of the Callum claims. I was the party chief on this job and overseen the whole project.

SHAWN RYAN

PROSPECTOR

CALLUM 1-4

COST

9.3 Kilometers of Grid lines @ $150.00 KL	$1,395.00
9.3 Kilometers of Magnetic Survey @ $250.00 KL	$2,325.00
8.50 Kilometers of VLF Survey @ $250.00 KL	$2,125.00
Soil Work 6 man days at $250.00 a day	$1,500.00
Hand Trenches 4 man days at $275.00(blaster)	$1,100.00
Truck Rental $50.00 a day @ 10 days	$ 500.00
Food	$ 350.00
Helicopter two trips, one from Dawson drop off and pick up and a second trip one from Mayo of drop off and pick up, for a total of 2.4 hours at $950.00 hour	$2,280.00
Assay Work	$1,670.00
Soil drying, sorting and shipping	$ 400.00
Report Preparation	$1,200.00
Total	$14,845.00

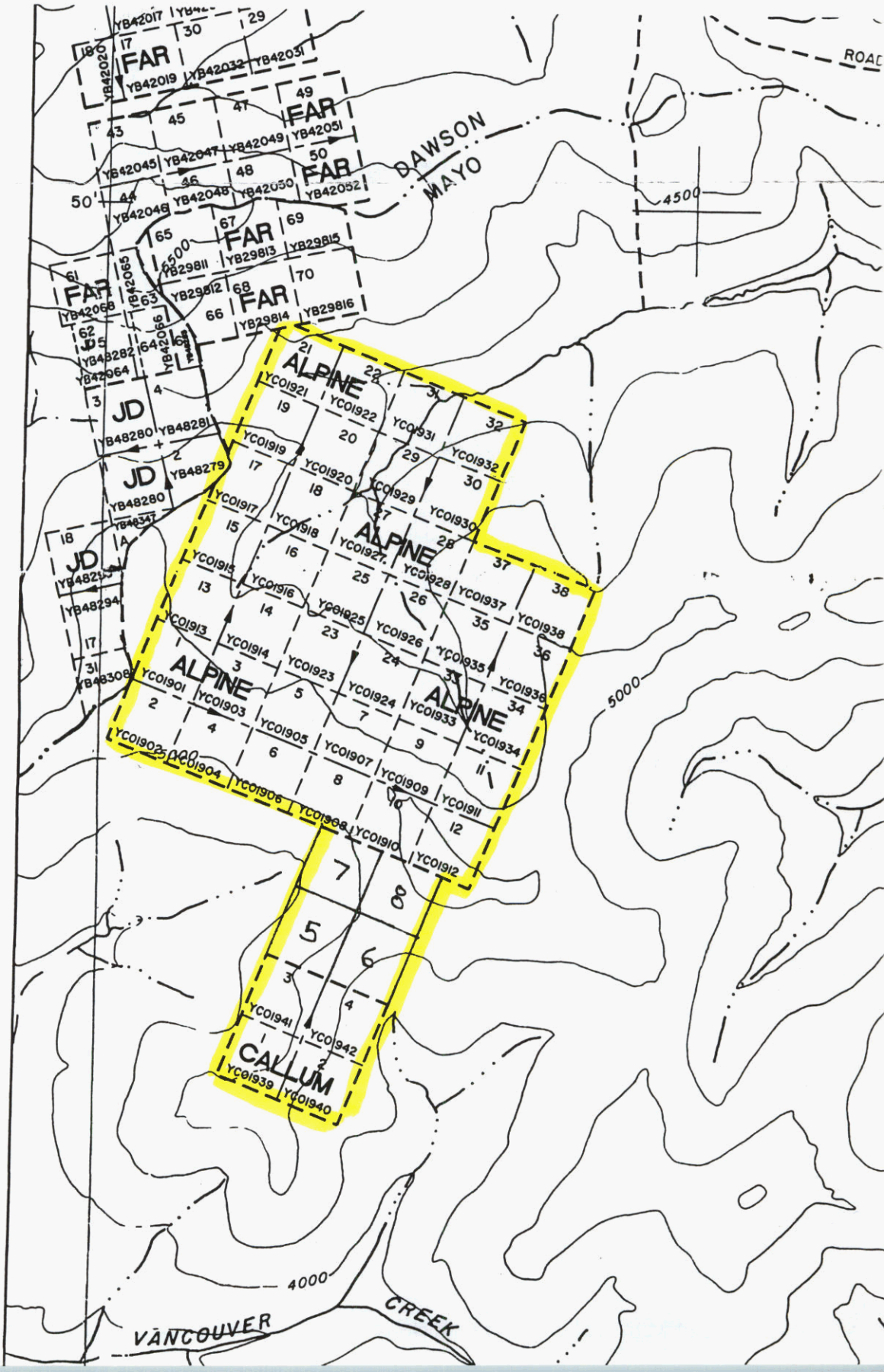
ROCK DESCRIPTION

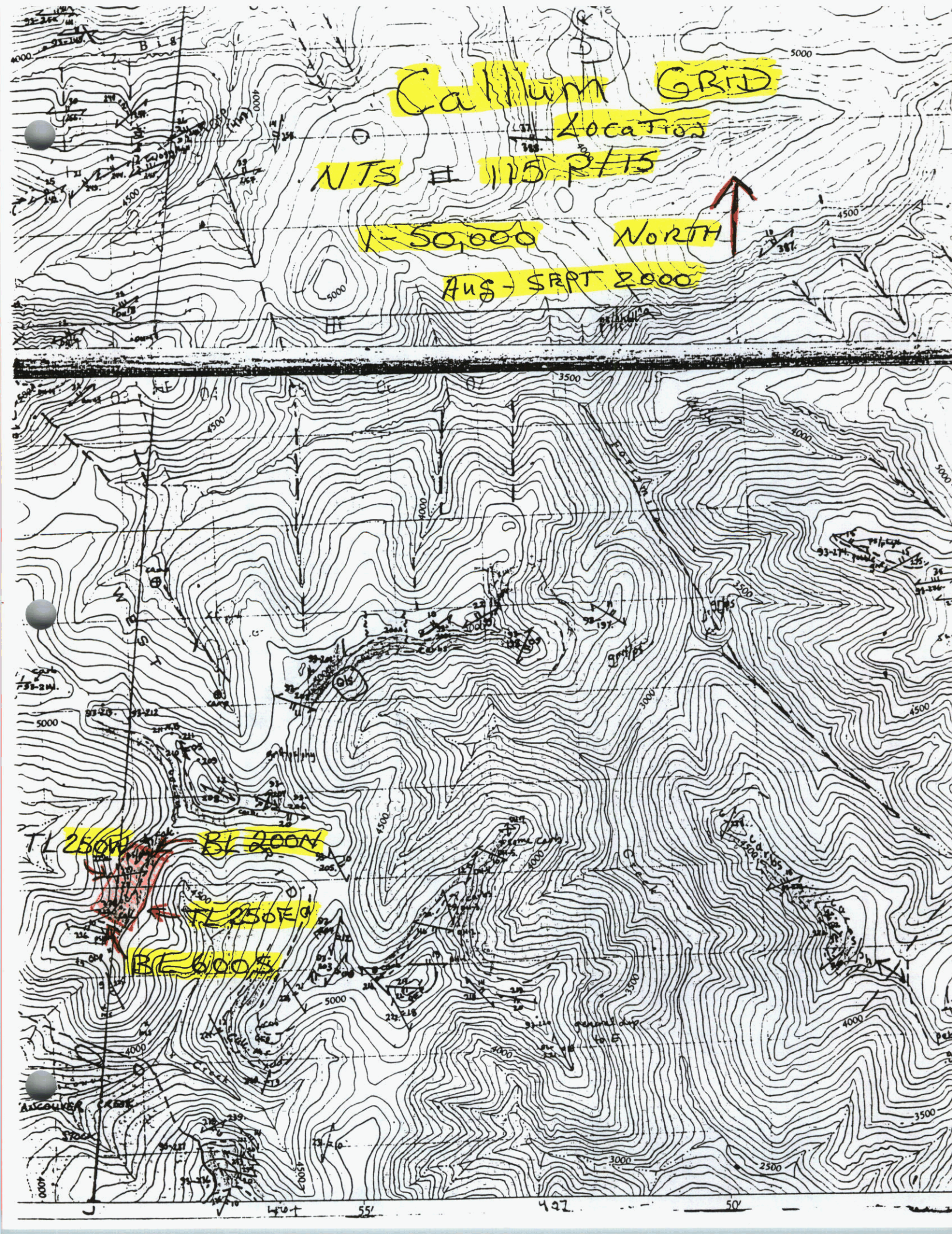
375100WR03	Float rock, skarn, light green, pyrrhotite.
40050WR04	Skarn, outcrop, purple calc-silicate, pyrrhotite.
40050WR06	Float, rusty, pyrrhotite
L375 75W R08	Skarn, green/ blue lots of pyrrhotite.
L350 75W R09	Skarn, green/ blue, pyrrhotite.
L350 25E R10	Skarn, float, green, pyrrhotite.
375 175E R11	Float, dark green, pyrrhotite, rusty.
375 175E R12	Float, green, pyrrhotite, chalcopyrite.
L50S 50E R13	Float, bluish/ green, pyrrhotite
L25S 75E R16	Outcrop, rusty shale, black, hornfels.
GAL P.T. 2 BTR	Outcrop, rusty, pyrrhotite.
L100N-50ER	Float, massive pyrrhotite, chalcopyrite.

Callum 1-8 claims

NTS #
115 P/15

NORTH

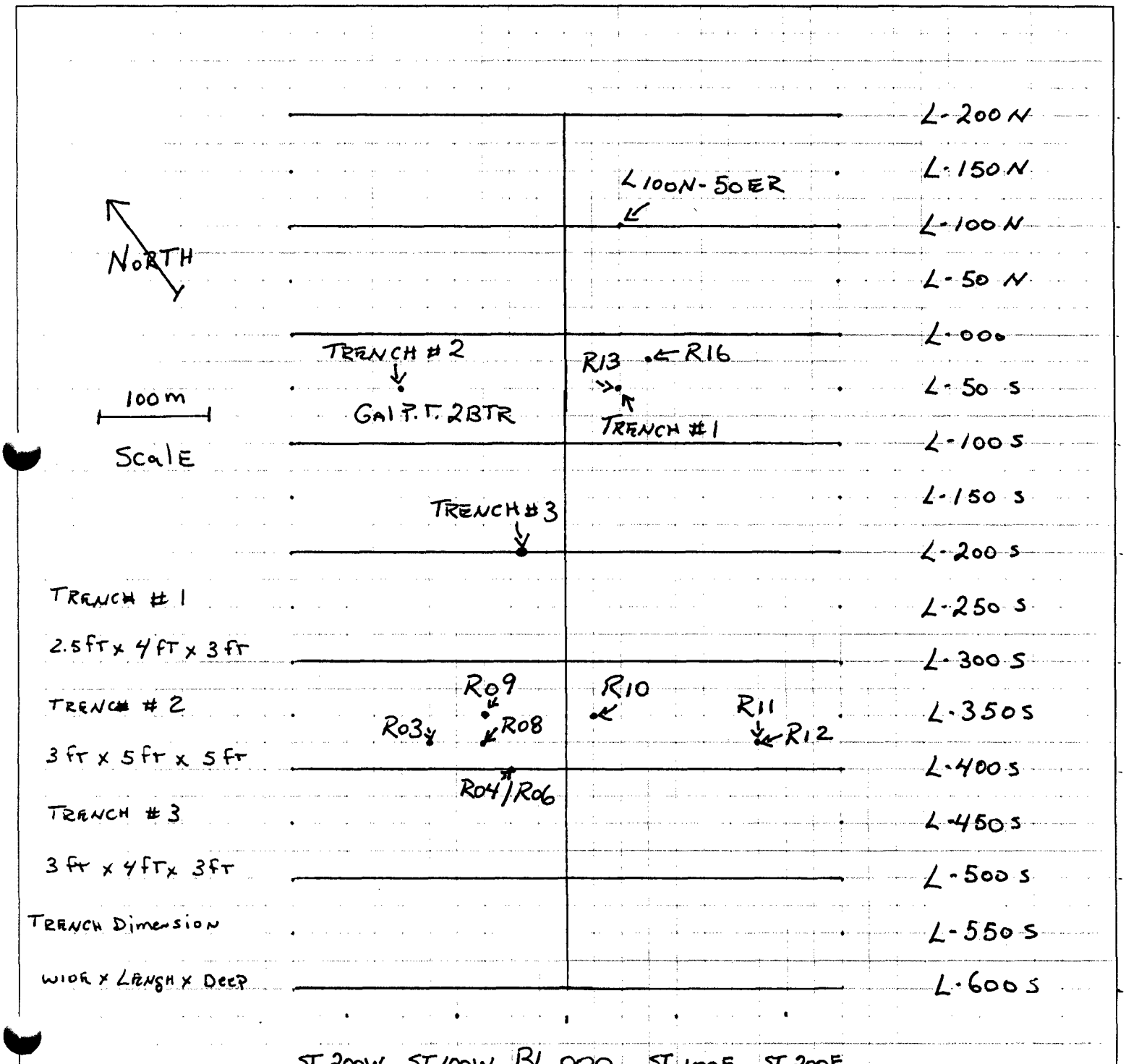



Callum GRID
Location
NTS 115 P/15
1-50,000
NORTH
AUS-SRPT 2000
TL 250W
BL 200N
TL 250E
BL 600S

411D Strickland Street,
Whitehorse, Yukon
Y1A 2K3
Phone : (403) 667-4639
Fax : (403) 668-2734

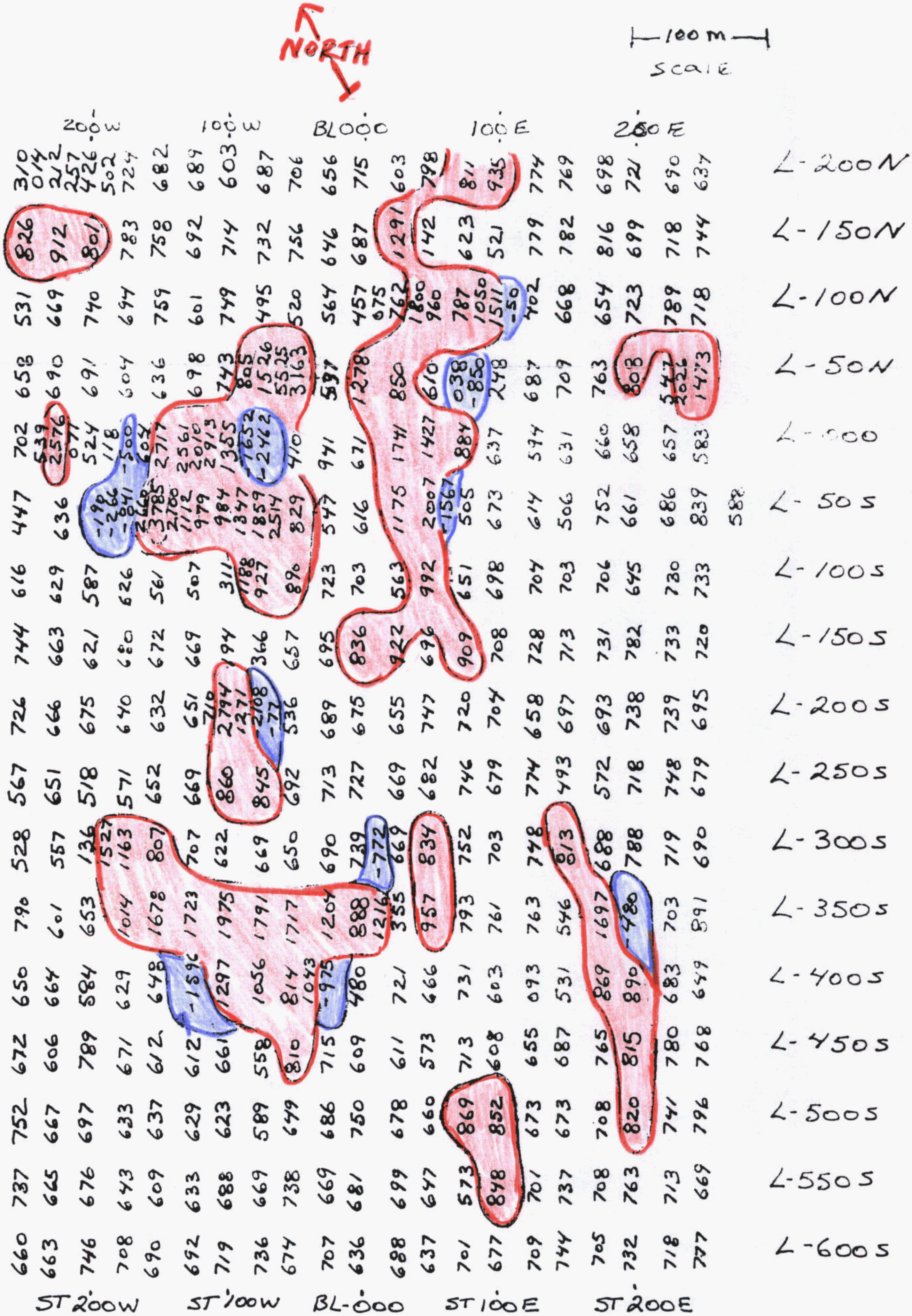
Date SEPTEMBER 2000 Project Callum 1-4 claims

Job No. NTS # 115 P / 15 MAYO MINING DIVISION

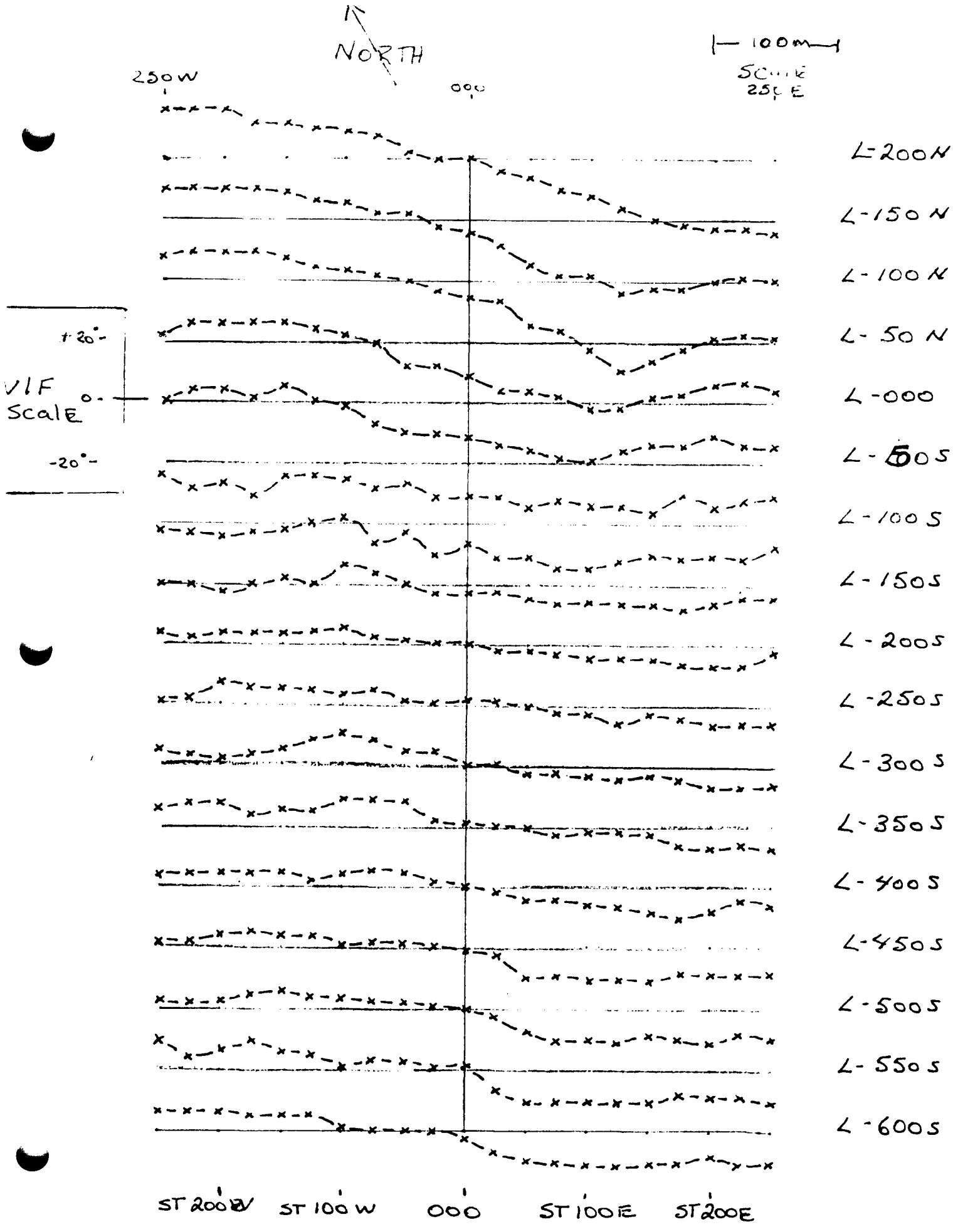


ROCK / TRENCH LOCATION MAP

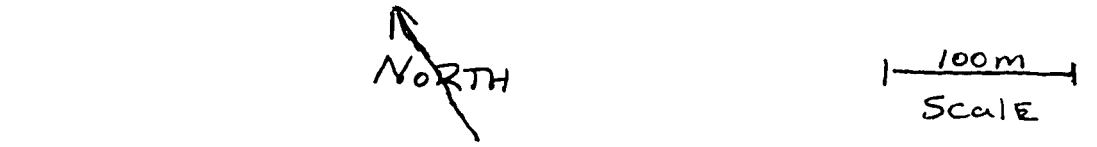
5mm x 5mm



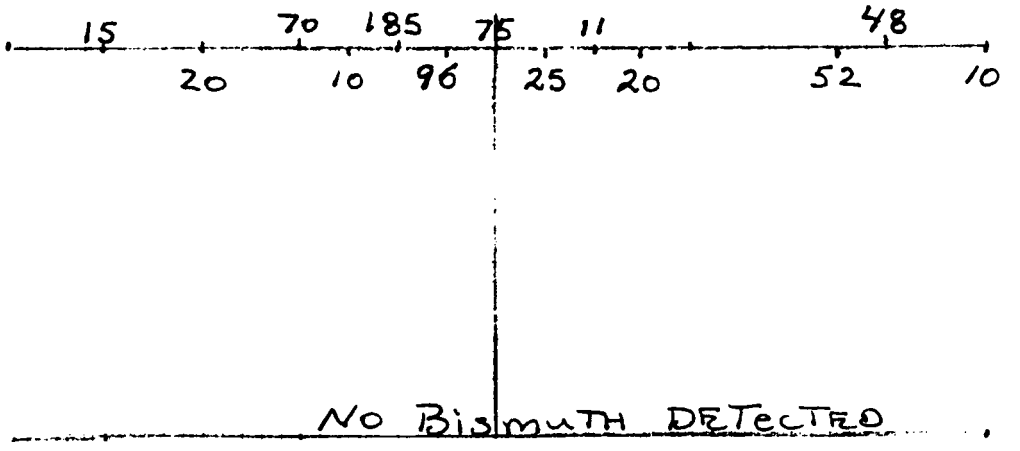
Callum Magnetic Survey



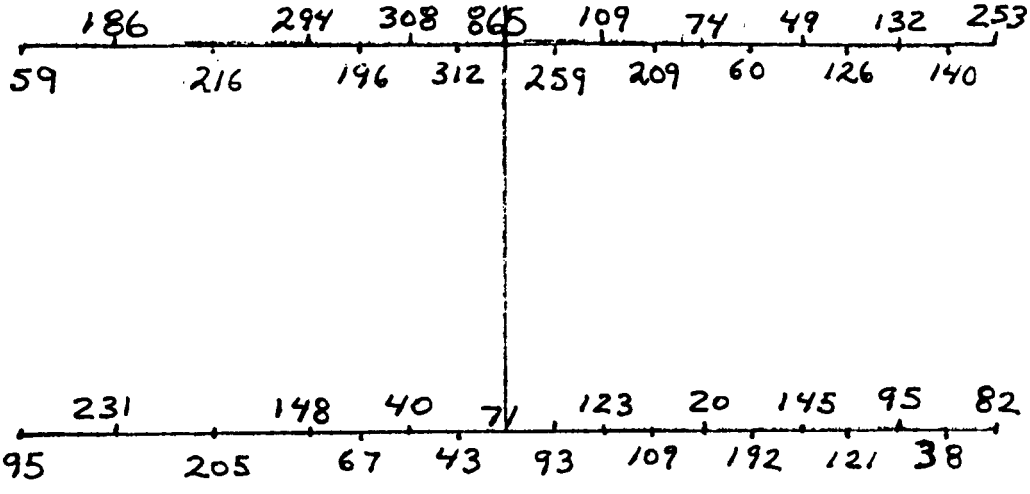
Callum VLF GRID



Bismuth - ppm

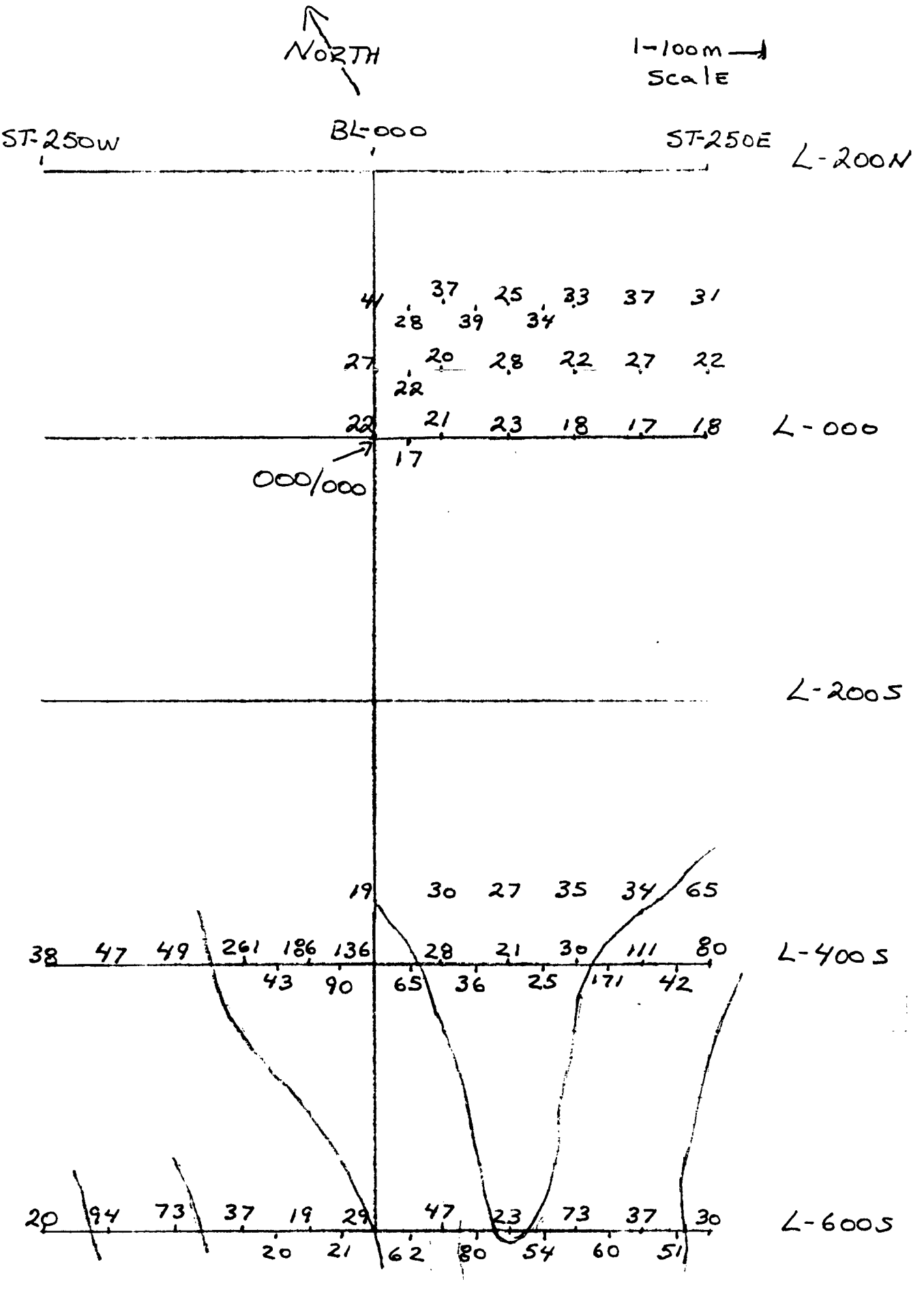


Copper - ppm

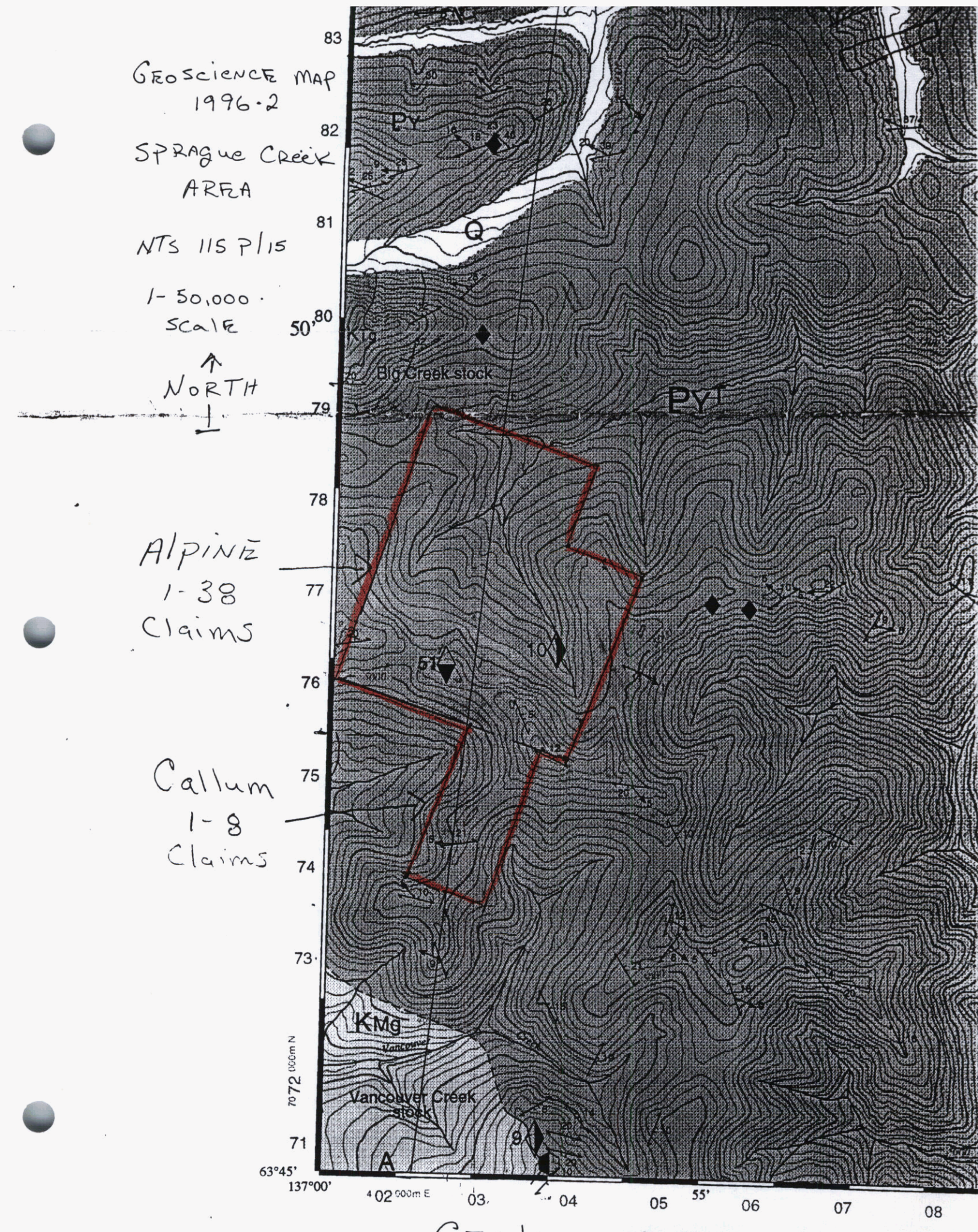


ST-250W B-000 ST-250E

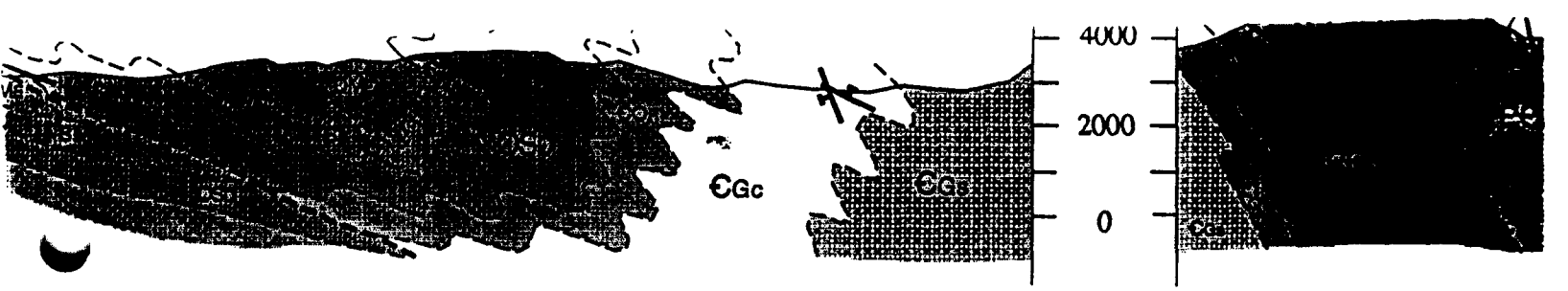
Callum Soil Lines



Callum Soil Geochem Au-ppb


GEOSCIENCE MAP
1996-2
SPRAGUE CREEK
AREA
NTS 115 P/15
1-50,000
SCALE
NORTH
ALPINE
1-38
Claims
Callum
1-8
Claims
PY
Q
Big Creek stock
PY
KMg
Vancouver Creek
stock
A
83
82
81
80
79
78
77
76
75
74
73
72
71
50'
63°45'
137°00'
7072 000m N
402 000m E
03
04
05
55'
06
07
08

GEOLOGY MAP.



136°30'
64°00'

97
96
95
94
93
92
91
90
89
55'

LEGEND

QUATERNARY

Q — Alluvium, colluvium and glacial deposits

LATE CRETACEOUS

McQUESTEN INTRUSIONS[1]

KMg — Medium- to coarse-grained, locally porphyritic (locally potassium feldspar megacrystic) biotite-muscovite granite and quartz monzonite

EARLY LATE CRETACEOUS

TOMBSTONE INTRUSIONS[2]

KTg — Medium- to coarse grained, locally porphyritic biotite ± hornblende, clinopyroxene granite, quartz monzonite and granodiorite

DEVONIAN-MISSISSIPPIAN

EARN GROUP

DME — Grey to black shale/phyllite, siltstone, sandstone, and chert-pebble conglomerate

unconformity

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP

SS — Steel Formation[3]: beige-orange, massive to well laminated, locally ripple cross-laminated, locally dolomitic siltstone and mudstone; common feeding traces and mottling due to bioturbation

OSD — Duo Lake Formation[3]: grey to black shale and thin-bedded chert

UPPER CAMBRIAN-ORDOVICIAN

CCR — Rabbitkettle Formation[3] : laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-pebble conglomerate; cherty calcsilicate rock near intrusions.

unconformity

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP

Ss Steel Formation[3]: beige-orange, massive to well laminated, locally ripple cross-laminated, locally dolomitic siltstone and mudstone; common feeding traces and mottling due to bioturbation

OSd Duo Lake Formation[3]: grey to black shale and thin-bedded chert

UPPER CAMBRIAN-ORDOVICIAN

€OR Rabbitkettle Formation[3] : laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-pebble conglomerate; cherty calcsilicate rock near intrusions.

unconformity

CAMBRIAN

€Gc Gull Lake Formation[3] :Tan- to brown-weathering thinly-bedded calcareous siltstone, sandstone, shale and limestone

€Gs Gull Lake Formation[3]: Greenish-grey phyllite with mm-scale siltstone laminae, uncommon sandstone and pebbly sandstone, and greenish-grey chert

€Gq Gull Lake Formation[3]: Light to dark grey, locally pebbly quartzite (siliceous meta-sandstone) and dark grey phyllite (€qp)

€Gv Gull Lake Formation[3]: Dark green massive to fragmental mafic meta-volcanic and volcaniclastic rocks

UPPER PROTEROZOIC-LOWER CAMBRIAN

HYLAND GROUP [3,4]

P€N Narchilla Formation[3]: maroon and green phyllite with cm-scale green-grey siltstone laminations, grey to green meta-sandstone and pebbly meta-sandstone (grit), and sandy limestone

P€Nc Sandy limestone and limestone-breccia-rich member

P€Y Yusezyu Formation[3,4] : foliated tan to grey meta-sandstone, muscovite-chlorite phyllite, blue-grey quartz and chalky white feldspar pebbly meta-sandstone (grit) pebble meta-conglomerate and uncommon sandy marble (P€Yc). Purplish/ maroonish siliceous pelitic hornfels and calcsilicate hornfels near intrusions

TOMBSTONE STRAIN ZONE UPPER BOUNDARY

P€YT Yusezyu Formation[3,4] (in Tombstone Strain Zone): prominently foliated and lineated muscovite-chlorite phyllite, quartzofeldspathic and micaceous psammite, gritty psammite, rare calc-silicate rock and marble (P€YcT)

1 64-67 Ma U-Pb zircon and/or monazite age determinations by Jim Mortensen, University of British Columbia

2 91-94 Ma U-Pb zircon and/or titanite age determinations by Jim Mortensen, University of British Columbia

3 Formation names are those defined or used by Gordey and Anderson (1993) for Nahanni map area (105 I)

4 Yusezyu and Narchilla formations are intruded by intermediate to mafic sills and dykes of unknown age that are too small to portray at the scale of mapping

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27/09/2000 Certificate of Analysis

Shawn Ryan

WO# 00136

Certified by

	Sample #	Au ppb
ss	L000-000	22
ss	L000-25E	17
ss	L000-50E	21
ss	L000-100E	23
ss	L000-150E	18
ss	L000-200E	17
ss	L000-250E	18
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ss	L100N-200E	37
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ss	L350-000	19
ss	L350-50E	30
ss	L350-100E	27
ss	L350-150E	35
ss	L350-200E	34
ss	L350-250E	65

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Shawn Ryan

WO# 00136

Certified by

	Sample #	Au ppb
ss	L400S-000	136
ss	L400S-25E	65
ss	L400S-50E	28
ss	L400S-75E	36
ss	L400S-100E	21
ss	L400S-125E	25
ss	L400S-150E	30
ss	L400S-175E	171
ss	L400S-200E	111
ss	L400S-225E	42
ss	L400S-250E	80
ss	L400S-25W	90
ss	L400S-50W	186
ss	L400S-75W	43
ss	L400S-100W	261
ss	L400S-150W	49
ss	L400S-200W	47
ss	L400S-250W	38
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ss	L600E-50E	47
ss	L600E-75E	80
ss	L600E-100E	23
ss	L600E-125E	54
ss	L600E-150E	73
ss	L600E-175E	60
ss	L600E-200E	37
ss	L600E-225E	51
ss	L600E-250E	30
ss	L600-00W	29
ss	L600-25W	21

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Shawn Ryan WO# 00136

Certified by

	Sample #	Au ppb
ss	L600-50W	19
ss	L600-75W	20
ss	L600-100W	37
ss	L600-150W	73
ss	L600-200W	94
ss	L600-250W	20

CERTIFICATE ANALYSIS
iPL 00K1544

INTERNATIONAL PLASMA LABORATORY LTD
ISO 9002
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipl@direct.ca
[154415:50:30:00112000]

Northern Analytical Laboratories
Project : W0#00167
Shipper : Norm Smith
Shipment: PO#: 568107
Analysis:
ICP(AqR)30

Comment:

36 Samples Out: Nov 20, 2000 In: Nov 15, 2000

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION
831100	36	Pulp	Pulp received as it is. no sample prep.

PULP 12M/Dis REJECT 00M/Dis
NS=No Sample Rep=Replicate M=Month Dis=Discard

Document Distribution

1 Northern Analytical Laboratories
105 Copper Road
Whitehorse
YT Y1A 2Z7
Canada
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EN	RT	CC	IN	FX
1	2	1	1	0
DL	3D	EM	BT	BL
0	0	0	0	0

Ph:867/668-4968
Fx:867/668-4890
Em:NAL@hypertech.yk.ca

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	5.00
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus		

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* Our liability is limited solely to the analytical cost of these analyses

BC Certified Assayer: David Chiu

Callum

ALS Chemex

Aurora Laboratory Services Ltd.
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CANADIAN UNITED MINERALS INC.

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Project :
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CERTIFICATE OF ANALYSIS A0034975

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
SC PHY R01	205	226	< 5	0.2	0.61	< 2	< 10	50	< 0.5	< 2	0.89	< 0.5	30	38	104	2.81	< 10	< 1	0.11	< 10	0.35
SC 20 R05	205	226	< 5	< 0.2	0.25	2	< 10	90	< 0.5	< 2	0.20	< 0.5	1	55	4	0.22	< 10	< 1	0.14	< 10	0.03
SC 20 BEODRA	205	226	< 5	< 0.2	1.49	< 2	< 10	10	< 0.5	< 2	1.39	< 0.5	24	38	85	3.11	< 10	< 1	0.11	< 10	1.16
SC 20 R03	205	226	< 5	< 0.2	0.59	< 2	< 10	150	< 0.5	< 2	0.65	< 0.5	55	54	62	1.41	< 10	< 1	0.06	< 10	0.09
SC 20 R04	205	226	< 5	< 0.2	0.49	< 2	< 10	120	< 0.5	< 2	0.13	< 0.5	11	78	21	0.74	< 10	< 1	0.19	< 10	0.13
SC 20 R07	205	226	< 5	< 0.2	0.74	< 2	< 10	10	< 0.5	< 2	0.20	< 0.5	6	29	1	2.08	< 10	< 1	0.07	< 10	0.57
SC 20 R09	205	226	< 5	< 0.2	1.96	< 2	< 10	390	2.5	< 2	1.10	0.5	22	24	31	5.62	10	< 1	0.50	20	2.44
SC BLACK DRA	205	226	< 5	< 0.2	1.58	52	< 10	100	1.0	< 2	2.16	0.5	14	20	43	4.28	< 10	< 1	0.14	< 10	1.59
VMS 20 R03	205	226	-----	< 0.2	1.88	2	< 10	170	0.5	< 2	0.22	0.5	8	107	48	3.60	< 10	< 1	0.85	20	0.73
CAL SK 11	205	226	10	0.6	5.85	< 2	< 10	< 10	1.5	< 2	3.91	< 0.5	29	54	513	3.46	10	< 1	0.03	10	0.08
CAL SK-03	205	226	< 5	1.0	2.82	< 2	< 10	< 10	0.5	< 2	2.12	< 0.5	26	26	518	4.33	< 10	< 1	0.01	< 10	0.05
375 100W R03	205	226	10	< 0.2	3.75	< 2	< 10	10	0.5	4	2.85	< 0.5	3	59	38	0.90	< 10	< 1	0.08	10	0.07
400 50W R04	205	226	5	< 0.2	3.83	6	< 10	130	0.5	< 2	1.23	< 0.5	16	130	41	3.02	10	< 1	1.27	10	1.34
400 50W R06	205	226	30	0.2	0.93	< 2	< 10	10	< 0.5	< 2	1.01	< 0.5	6	103	162	1.82	< 10	< 1	0.04	< 10	0.07
L375 75W R08	205	226	15	0.2	2.11	< 2	< 10	< 10	0.5	2	2.98	< 0.5	6	31	149	2.24	< 10	< 1	0.08	< 10	0.07
L375 75W R09	205	226	60	0.6	3.61	4	< 10	< 10	1.5	22	2.47	< 0.5	13	43	330	4.10	< 10	< 1	0.09	10	0.09
L350 25E R10	205	226	60	0.2	4.60	< 2	< 10	< 10	0.5	46	4.69	< 0.5	6	23	142	2.87	10	< 1	0.01	10	0.05
375 175E R11	205	226	45	0.6	3.00	< 2	< 10	< 10	0.5	26	2.35	< 0.5	9	21	385	3.70	< 10	< 1	0.05	10	0.04
375 175E R12	205	226	525	1.6	1.45	8	< 10	< 10	0.5	324	1.18	< 0.5	17	55	594	5.67	< 10	< 1	0.02	10	0.11
L50S 50E R13	205	226	5	< 0.2	0.94	6	< 10	20	< 0.5	< 2	0.30	< 0.5	7	98	50	2.20	< 10	< 1	0.09	< 10	0.13
L25S 75E R16	205	226	< 5	0.2	2.71	< 2	< 10	60	0.5	< 2	0.89	< 0.5	10	74	37	3.00	10	< 1	0.64	10	0.57
GAL P.T 2 BTR	205	226	< 5	0.6	5.00	< 2	< 10	30	2.0	6	3.63	< 0.5	8	59	116	1.83	10	< 1	0.04	10	0.73
L100N-50ER	205	226	< 5	2.6	3.86	26	< 10	< 10	1.5	8	2.32	2.5	21	40	1815	13.30	10	< 1	0.01	< 10	0.09
HEM HWY R01	205	226	5	< 0.2	2.62	< 2	< 10	2230	0.5	< 2	1.58	0.5	33	54	716	5.16	10	< 1	0.16	30	3.57
HEM 20 R02	205	226	5	1.8	5.16	20	< 10	40	0.5	< 2	0.07	2.5	48	153	61	13.60	20	< 1	0.10	< 10	4.12
HEM 20 R03	205	226	< 5	2.0	0.58	< 2	< 10	40	< 0.5	< 2	4.12	< 0.5	10	140	9310	3.31	< 10	< 1	0.02	< 10	2.53
HEM 20 R04	205	226	5	0.6	2.92	2	< 10	680	0.5	< 2	0.19	1.5	75	45	824	8.80	10	< 1	0.14	< 10	3.00
HEM 20 R0111	205	226	10	0.6	0.40	96	< 10	310	0.5	< 2	3.22	1.5	96	33	2860	6.88	< 10	< 1	0.10	< 10	2.04
HEM 20 R022	205	226	< 5	0.2	0.28	8	< 10	300	< 0.5	2	9.44	< 0.5	23	11	144	1.98	< 10	< 1	0.19	10	5.59
HEM 20 R0333	205	226	5	0.8	0.98	6	< 10	1560	0.5	< 2	0.04	1.0	12	24	1445	11.00	< 10	< 1	0.01	< 10	1.10
JL 20 R01	205	226	< 5	< 0.2	1.23	< 2	< 10	330	< 0.5	< 2	0.10	< 0.5	10	130	34	2.37	< 10	< 1	0.72	< 10	0.54
JL 20 R02	205	226	50	1.8	1.37	10	< 10	10	0.5	< 2	0.53	3.0	102	85	277	>15.00	10	< 1	0.37	< 10	0.73

1 - Callum Rocks

Callum Rocks are Label From with station Location of Grid Coordinates
Gal P.T. 2BTR Rock, Bottom of Soil Pit, Location L 55N / 75W

CERTIFICATION:

NTS # 115 P 115

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
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To: CANADIAN UNITED MINERALS INC.

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Project :
Comments: ATTN: SHAWN RYAN

Page : 1-B
Total Page
Certificate D : C-2000
Invoice No. 75
P.O. Number
Account : PHF

CERTIFICATE OF ANALYSIS A0034975

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SC PHY R01	205	226	255	1	0.09	16	780	6	1.25	< 2	3	31	0.12	< 10	< 10	20	< 10	30
SC 20 R05	205	226	40	1	0.06	1	10	8	0.03	< 2	< 1	19	< 0.01	< 10	< 10	1	< 10	6
SC 20 BEODRA	205	226	470	1	0.17	49	1170	2	0.88	< 2	8	17	0.14	< 10	< 10	62	< 10	50
SC 20 R03	205	226	100	14	0.01	46	150	4	0.52	< 2	1	32	0.06	< 10	< 10	11	< 10	28
SC 20 R04	205	226	35	10	0.08	28	150	6	0.21	< 2	< 1	29	0.05	< 10	< 10	9	< 10	24
SC 20 R07	205	226	220	< 1	0.14	1	570	< 2	< 0.01	< 2	5	7	0.06	< 10	< 10	65	< 10	38
SC 20 R09	205	226	1240	< 1	0.10	14	2470	8	< 0.01	< 2	13	76	0.25	< 10	< 10	168	< 10	106
SC BLACK DRA	205	226	615	6	0.01	12	960	14	0.79	< 2	7	120	< 0.01	< 10	< 10	63	< 10	62
VMS 20 R03	205	226	280	< 1	0.01	34	820	10	0.02	< 2	4	18	0.11	< 10	< 10	54	< 10	226
CAL SK 11	205	226	90	< 1	0.25	46	190	8	2.16	< 2	< 1	209	0.06	< 10	< 10	8	10	30
CAL SK-03	205	226	220	< 1	0.09	30	150	2	2.08	< 2	< 1	79	0.04	< 10	< 10	3	80	50
375 100W R03	205	226	105	< 1	0.49	11	180	4	0.24	< 2	1	152	0.06	< 10	< 10	11	< 10	26
400 50W R04	205	226	165	< 1	0.21	40	90	6	0.35	< 2	8	87	0.17	< 10	< 10	56	< 10	46
400 50W R06	205	226	95	< 1	0.11	16	60	2	0.70	< 2	< 1	51	0.03	< 10	< 10	3	< 10	22
L375 75W R08	205	226	235	< 1	0.57	18	500	2	1.01	< 2	< 1	63	0.04	< 10	< 10	3	< 10	42
L375 75W R09	205	226	225	< 1	0.54	27	200	8	2.31	< 2	1	115	0.06	< 10	< 10	9	< 10	56
L350 25E R10	205	226	325	< 1	0.19	7	860	4	1.08	< 2	< 1	209	0.05	< 10	< 10	6	< 10	32
375 175E R11	205	226	230	< 1	0.35	13	880	6	2.09	< 2	< 1	96	0.03	< 10	< 10	3	< 10	64
375 175E R12	205	226	345	< 1	0.12	34	120	4	3.39	< 2	< 1	48	0.04	< 10	< 10	6	< 10	52
L50S 50E R13	205	226	75	< 1	0.08	8	70	2	0.40	< 2	1	38	0.03	< 10	< 10	10	< 10	16
L25S 75E R16	205	226	105	< 1	0.19	19	200	8	0.49	< 2	4	85	0.11	< 10	< 10	31	< 10	40
GAL P.T 2 BTR	205	226	130	7	0.47	27	340	14	0.77	< 2	1	188	0.05	< 10	< 10	33	< 10	30
L100N-50ER	205	226	40	1	0.30	9	410	10	>5.00	< 2	< 1	184	0.02	< 10	< 10	5	< 10	16
HEM HWY R01	205	226	1175	1	0.01	39	580	< 2	0.08	< 2	4	92	0.01	< 10	< 10	54	< 10	44
HEM 20 R02	205	226	350	< 1	< 0.01	94	320	56	3.51	< 2	9	6	0.01	< 10	< 10	155	< 10	140
HEM 20 R03	205	226	2690	4	0.01	12	60	4	0.52	< 2	7	31	< 0.01	< 10	< 10	20	< 10	16
HEM 20 R04	205	226	365	1	< 0.01	45	580	2	0.11	< 2	6	11	0.03	< 10	< 10	164	< 10	44
HEM 20 R0111	205	226	1775	4	< 0.01	24	570	6	0.23	2	2	117	0.01	< 10	< 10	17	< 10	12
HEM 20 R022	205	226	3620	< 1	0.01	6	380	< 2	0.05	< 2	3	33	< 0.01	< 10	< 10	5	< 10	6
HEM 20 R0333	205	226	310	< 1	< 0.01	18	80	2	0.09	< 2	6	35	< 0.01	< 10	< 10	78	20	12
JL 20 R01	205	226	85	< 1	0.04	39	160	6	0.51	< 2	6	9	0.15	< 10	< 10	57	< 10	80
JL 20 R02	205	226	145	3	0.08	33	440	14	>5.00	< 2	3	10	0.08	< 10	< 10	25	10	118

CERTIFICATION:

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Project :
Comments: ATTN: SHAWN RYAN

Page Number :1-A
Total Pages :2
Certificate Date: 08-DEC-2000
Invoice No. : 034983
P.O. Number :
Account :

Callum claims TEST Soil

CERTIFICATE OF ANALYSIS A0034983

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
[redacted] -01	201	202	< 5	< 0.2	1.07	2	< 10	390	< 0.5	< 2	0.24	< 0.5	8	19	9	1.73	< 10	< 1	0.04	10	0.39
[redacted] -02	201	202	< 5	< 0.2	0.67	2	< 10	560	< 0.5	< 2	0.29	2.5	9	9	12	2.55	< 10	< 1	0.04	20	0.25
[redacted] -03	201	202	20	< 0.2	0.65	2	< 10	750	< 0.5	< 2	0.33	< 0.5	7	11	11	2.04	< 10	< 1	0.04	20	0.23
[redacted] -04	201	202	< 5	< 0.2	0.58	2	< 10	620	< 0.5	< 2	0.19	< 0.5	4	6	8	1.18	< 10	< 1	0.05	20	0.16
[redacted] -05	201	202	< 5	< 0.2	0.74	2	< 10	470	< 0.5	< 2	0.25	< 0.5	5	9	11	1.90	< 10	< 1	0.06	30	0.19
[redacted] S0 5	201	202	< 5	< 0.2	1.13	8	< 10	120	< 0.5	< 2	0.25	< 0.5	10	27	26	2.27	< 10	< 1	0.08	< 10	0.51
[redacted] S0 6	201	202	< 5	< 0.2	1.18	10	< 10	260	0.5	< 2	0.41	< 0.5	13	25	36	2.44	< 10	< 1	0.14	10	0.57
[redacted] S0 7	201	202	< 5	< 0.2	2.36	< 2	< 10	300	< 0.5	< 2	0.38	< 0.5	17	45	72	3.40	10	< 1	0.66	< 10	1.68
[redacted] S0 8	201	202	< 5	< 0.2	2.30	< 2	< 10	320	< 0.5	< 2	0.50	< 0.5	16	57	64	2.81	10	< 1	0.84	< 10	1.91
[redacted] S0 9	201	202	< 5	< 0.2	2.95	< 2	< 10	430	0.5	< 2	0.57	< 0.5	21	57	74	4.38	10	< 1	0.89	< 10	2.33
[redacted] S0 10	201	202	< 5	< 0.2	1.26	8	< 10	320	< 0.5	< 2	0.87	< 0.5	10	29	35	2.30	< 10	< 1	0.11	10	0.60
[redacted] S0 11	201	202	< 5	< 0.2	2.05	< 2	< 10	240	0.5	< 2	0.68	< 0.5	16	83	42	3.23	< 10	< 1	0.46	< 10	1.82
[redacted] S0 12	201	202	< 5	< 0.2	1.25	2	< 10	150	< 0.5	< 2	0.33	< 0.5	9	31	21	1.96	< 10	< 1	0.06	< 10	0.65
[redacted] S0 13	201	202	< 5	< 0.2	1.62	2	< 10	160	< 0.5	< 2	0.43	< 0.5	12	51	28	2.69	< 10	< 1	0.12	< 10	0.91
[redacted] S0 14	201	202	< 5	< 0.2	1.78	< 2	< 10	290	0.5	< 2	0.55	< 0.5	10	42	31	2.45	< 10	< 1	0.20	< 10	0.70
[redacted] S0 15	201	202	< 5	< 0.2	1.10	6	< 10	380	0.5	< 2	0.59	< 0.5	10	26	32	2.33	< 10	< 1	0.06	< 10	0.55
[redacted] S0 16	201	202	< 5	< 0.2	1.45	6	< 10	320	0.5	< 2	0.45	< 0.5	11	31	22	2.62	< 10	< 1	0.06	10	0.57
[redacted] S0 17	201	202	25	< 0.2	0.91	38	< 10	340	< 0.5	< 2	0.37	< 0.5	13	53	33	2.21	< 10	< 1	0.13	< 10	0.71
[redacted] 20SS 01	201	202	< 5	< 0.2	1.75	4	< 10	520	0.5	< 2	0.59	< 0.5	21	71	98	2.33	< 10	< 1	0.14	30	0.74
[redacted] 20SS 02	201	202	< 5	< 0.2	1.16	18	< 10	370	0.5	< 2	0.54	< 0.5	12	38	35	2.26	< 10	< 1	0.22	10	0.59
[redacted] 20SS 03	201	202	135	< 0.2	0.99	< 2	< 10	180	< 0.5	< 2	0.43	< 0.5	8	26	22	1.74	< 10	< 1	0.09	< 10	0.60
[redacted] 20SS 04	201	202	10	< 0.2	0.54	< 2	< 10	80	< 0.5	< 2	0.40	< 0.5	5	16	13	1.50	< 10	< 1	0.05	< 10	0.33
[redacted] 20SS 05	201	202	< 5	< 0.2	1.16	< 2	< 10	260	< 0.5	< 2	0.49	< 0.5	8	27	22	1.90	< 10	< 1	0.13	< 10	0.70
[redacted] 20SS 06	201	202	< 5	< 0.2	0.98	10	< 10	190	< 0.5	< 2	0.60	< 0.5	10	37	25	2.01	< 10	< 1	0.11	< 10	0.68
[redacted] 20SS 07	201	202	< 5	< 0.2	0.89	< 2	< 10	170	< 0.5	< 2	0.58	< 0.5	9	25	26	1.83	< 10	< 1	0.08	< 10	0.57
[redacted] 20SS 08	201	202	< 5	< 0.2	0.84	< 2	< 10	160	< 0.5	< 2	0.58	< 0.5	10	26	28	2.06	< 10	< 1	0.09	< 10	0.59
GA1-TS-01	201	202	65	1.4	5.48	46	< 10	90	1.5	136	0.06	< 0.5	8	38	406	10.65	10	< 1	0.37	20	0.51
GA1-TS-02	201	202	50	1.2	4.18	34	< 10	60	2.0	108	0.10	0.5	10	28	418	12.60	10	< 1	0.15	< 10	0.36
GA1-TS-03	201	202	< 5	< 0.2	1.12	18	< 10	70	< 0.5	2	0.06	< 0.5	5	17	33	2.18	< 10	< 1	0.03	< 10	0.16
[redacted] SS20-01	201	202	< 5	< 0.2	1.59	2	< 10	380	0.5	< 2	0.78	< 0.5	13	29	25	2.81	< 10	< 1	0.25	10	0.92
[redacted] 375 SS 180	201	202	< 5	< 0.2	1.31	< 2	< 10	220	< 0.5	< 2	0.68	< 0.5	12	25	16	2.49	< 10	< 1	0.16	< 10	0.78
[redacted] 400 SS 385	201	202	< 5	< 0.2	1.57	< 2	< 10	300	0.5	< 2	0.74	< 0.5	13	27	22	2.89	< 10	< 1	0.25	10	0.93
[redacted] 750 650 ET	201	202	< 5	< 0.2	1.99	4	< 10	310	1.0	< 2	0.41	< 0.5	14	30	23	4.11	< 10	< 1	0.08	10	0.75
[redacted] 750 650 EB	201	202	< 10	< 0.2	3.28	< 2	< 10	390	2.5	< 2	1.08	< 0.5	29	48	34	6.03	< 10	< 1	0.23	10	2.32
[redacted]	201	202	< 5	< 0.2	0.95	382	< 10	490	2.0	< 2	0.85	0.5	21	29	46	8.17	< 10	< 1	0.18	20	0.61
[redacted] 200-150E	201	202	< 5	< 0.2	2.02	2	< 10	350	< 0.5	< 2	0.49	< 0.5	17	54	31	3.37	10	< 1	0.22	< 10	1.39
[redacted] 200-175E	201	202	< 5	< 0.2	1.95	2	< 10	270	0.5	< 2	0.36	< 0.5	16	27	33	3.13	< 10	< 1	0.15	< 10	1.18
[redacted] 200-200E	201	202	< 5	< 0.2	2.50	< 2	< 10	470	0.5	< 2	0.45	< 0.5	23	17	35	3.66	10	< 1	0.33	10	1.94
[redacted] 200-225E	201	202	< 5	< 0.2	2.51	< 2	< 10	420	0.5	< 2	0.63	< 0.5	23	19	27	3.56	10	< 1	0.43	< 10	1.99
[redacted] 200-250E	201	202	< 5	< 0.2	1.71	2	< 10	360	< 0.5	< 2	0.26	< 0.5	12	22	23	2.68	< 10	< 1	0.11	< 10	0.73

GA1-TS-01 RED Soil FOWO 5 ft FROM PIT
GA1-TS-02 RED Soil FOWO 5ft DOWN IN PIT
GA1-TS-03 BROWN Soil B-HORIZON AT TOP of PIT

CERTIFICATION: _____

LOCATION L-55N/75W

INTERNATIONAL PLASMA LABORATORY LTD

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CERTIFICATE OF ANALYSIS
iPL 00K1544

ISO 9002

Client : Northern Analytical Laboratories
Project : WO#00167

36 Samples
36=Pulp

[154415:50:30:00112000]

Out: Nov 20, 2000
In : Nov 15, 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L400S 000	P	2.0	865	32	55	<	<	<	5	<	75	2.7	13	14	86	<	40	61	259	9	30	7	4	0.16	2.32	0.05	16%	0.21	0.12	0.02	0.08
L400S 25E	P	1.5	259	1053	318	114	<	<	3	<	25	3.0	14	26	185	<	27	42	641	15	21	3	4	0.06	1.72	0.24	4.46	0.48	0.10	0.02	0.07
L400S 50E	P	1.8	109	219	353	11	<	<	3	<	11	17.6	21	37	312	<	41	47	1604	29	82	4	7	0.03	3.16	0.65	3.98	0.58	0.21	0.03	0.05
L400S 75E	P	3.6	209	5425	537	356	<	<	1	<	20	10.4	11	19	109	<	24	38	733	16	17	1	3	0.04	1.47	0.23	2.99	0.43	0.07	0.02	0.09
L400S 100E	P	1.2	74	132	249	<	<	<	2	<	<	4.3	9	26	176	<	25	40	562	17	16	1	3	0.04	1.83	0.20	2.59	0.45	0.07	0.01	0.06
L400S 125E	P	0.8	60	45	138	<	<	<	1	<	<	2.6	12	28	170	<	24	41	541	15	18	1	3	0.04	1.83	0.21	2.56	0.45	0.06	0.02	0.04
L400S 150E	P	0.7	49	53	178	<	<	<	2	<	<	4.3	13	30	208	<	26	44	709	16	17	1	3	0.05	1.99	0.19	2.74	0.47	0.07	0.02	0.04
L400S 175E	P	0.6	126	17	117	<	<	<	1	<	52	2.6	14	29	201	<	25	39	908	18	22	1	3	0.05	2.08	0.28	3.70	0.38	0.05	0.04	0.04
L400S 200E	P	0.9	132	29	75	<	<	<	1	<	48	2.2	9	23	196	<	25	42	364	13	26	1	2	0.04	2.31	0.19	3.37	0.36	0.05	0.04	0.04
L400S 225E	P	0.3	140	19	87	<	<	<	2	<	<	1.6	17	22	195	<	21	37	401	13	32	2	3	0.06	1.74	0.24	3.04	0.44	0.15	0.03	0.06
L400S 250E	P	0.5	253	31	105	<	<	<	1	<	10	2.6	18	31	173	7	28	43	489	17	35	1	4	0.06	2.39	0.22	3.96	0.48	0.14	0.04	0.05
L400S 25W	P	0.7	312	29	110	<	<	<	3	<	96	2.4	27	37	128	<	25	42	774	13	21	2	3	0.06	1.99	0.17	5.83	0.44	0.12	0.03	0.06
L400S 50W	P	1.2	308	31	95	<	<	<	3	<	185	1.7	12	32	102	<	26	44	359	16	21	1	3	0.05	2.01	0.17	5.04	0.46	0.11	0.02	0.07
L400S 75W	P	0.6	196	47	137	6	<	<	3	<	10	2.6	19	40	158	<	29	46	591	25	28	1	4	0.05	2.04	0.33	3.55	0.52	0.13	0.03	0.08
L400S 100W	P	2.6	294	310	164	29	<	<	2	<	70	3.6	16	31	111	<	29	44	799	22	35	1	4	0.05	2.12	0.32	4.91	0.44	0.09	0.03	0.07
L400S 150W	P	0.6	216	54	143	7	<	<	2	<	20	2.5	22	42	170	<	30	45	848	25	22	1	5	0.05	2.24	0.19	4.12	0.49	0.14	0.02	0.07
L400S 200W	P	0.4	186	197	227	12	<	<	4	<	15	3.2	22	44	224	<	39	56	1208	38	26	1	4	0.04	3.11	0.22	4.39	0.64	0.10	0.02	0.08
L400S 250W	P	0.8	59	195	129	8	<	<	3	<	<	2.1	10	23	96	<	29	51	522	14	11	1	2	0.04	2.05	0.10	3.24	0.38	0.07	0.02	0.07
L600E 25E	P	0.2	93	16	59	<	<	<	3	<	<	1.2	7	19	153	5	28	46	170	16	16	1	3	0.05	1.74	0.19	2.38	0.42	0.12	0.02	0.07
L600E 50E	P	0.3	123	65	83	<	<	<	2	<	<	1.5	17	21	238	<	28	43	523	16	25	2	4	0.06	1.50	0.29	2.67	0.49	0.14	0.02	0.07
L600E 75E	P	0.2	109	155	125	<	<	<	3	<	<	1.6	13	26	169	5	29	42	340	19	18	2	4	0.06	1.57	0.28	2.50	0.52	0.17	0.02	0.08
L600E 100E	P	<	20	61	54	<	<	<	3	<	<	1.3	8	21	73	<	26	71	328	11	9	1	2	0.07	1.31	0.07	3.61	0.39	0.06	0.01	0.03
L600E 125E	P	0.4	192	55	122	<	<	<	2	<	<	0.8	27	47	382	14	81	81	439	21	24	1	6	0.10	3.55	0.25	3.66	1.01	0.33	0.02	0.09
L600E 150E	P	0.5	145	85	92	<	<	<	1	<	<	1.5	10	30	184	12	37	50	194	19	18	1	4	0.07	2.36	0.20	2.73	0.58	0.16	0.01	0.06
L600E 175E	P	0.4	121	67	80	<	<	<	4	<	<	1.2	9	31	161	6	32	49	196	20	16	1	4	0.07	2.24	0.17	2.66	0.51	0.13	0.02	0.06
L600E 200E	P	0.3	95	41	73	<	<	<	2	<	<	1.2	11	23	145	5	29	47	330	17	18	1	3	0.06	1.95	0.19	2.56	0.50	0.10	0.01	0.06
L600E 225E	P	0.1	38	31	57	5	<	<	2	<	<	1.3	7	18	94	<	27	54	386	15	12	<	2	0.06	1.28	0.08	2.34	0.36	0.11	0.01	0.04
L600E 250E	P	<	82	31	72	<	<	<	1	<	<	1.0	12	24	158	<	28	47	293	15	16	1	3	0.05	1.73	0.16	2.65	0.47	0.11	0.01	0.05
L600 00W	P	<	71	14	62	<	<	<	2	<	<	1.0	7	22	133	<	25	39	186	15	20	2	3	0.06	1.27	0.26	2.12	0.42	0.16	0.01	0.06
L600 25W	P	0.4	43	60	103	<	<	<	2	<	<	1.3	14	29	207	<	34	50	489	18	15	1	5	0.05	1.85	0.17	2.82	0.53	0.21	0.01	0.05
L600 50W	P	0.3	40	39	90	<	<	<	2	<	<	1.4	10	27	161	<	32	46	279	19	14	1	4	0.06	1.69	0.19	2.52	0.52	0.23	0.01	0.06
L600 75W	P	0.5	67	33	89	<	<	<	2	<	<	1.5	13	30	206	<	38	55	290	17	18	1	5	0.07	2.24	0.19	2.92	0.60	0.29	0.01	0.06
L600 100W	P	0.3	148	15	69	<	<	<	2	<	<	1.6	13	31	224	8	32	48	278	19	26	1	4	0.07	2.17	0.24	2.78	0.53	0.18	0.02	0.06
L600 150W	P	0.4	205	34	82	<	<	<	2	<	<	1.9	17	39	202	12	32	51	353	17	33	1	4	0.07	2.20	0.27	3.44	0.52	0.21	0.02	0.08
L600 200W	P	0.7	231	60	123	<	<	<	2	<	<	2.5	21	44	162	20	35	53	456	19	30	1	4	0.06	2.46	0.22	3.46	0.59	0.18	0.02	0.08
L600 250W	P	0.3	95	98	160	<	<	<	2	<	<	3.2	15	30	147	7	33	53	655	19	15	1	2	0.03	1.99	0.15	3.31	0.51	0.17	0.02	0.07
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck ppm=x1000 %=Estimate % NS=No Sample P=Pulp

Callum Claims

L600S - 100 E
LINE ↑ STATION ↑

NTS 115 P/15

Callum ULF Data

	L-300s	L-350s	L-400s	L-450s	L-500s	L-550s
ST 250 E	-5	-7	-6	-8	-9	-10
.	-6	-6	-4	-8	-8	-8
ST 200 E	-6	-7	-8	-8	-10	-8
.	-4	-6	-10	-8	-9	-8
ST 150 E	-3	-2	-8	-11	-8	-10
.	-4	-1	-6	-10	-10	-10
ST 100 E	-3	-1	-5	-10	-9	-10
.	-2	-2	-4	-9	-10	-11
ST 50 E	-2	0	-4	-9	-8	-10
.	0	0	-1	-2	-1	-6
ST 000	0	+1	0	-1	0	+1
.	+6	+3	+2	0	0	0
ST 50 W	+6	+9	+5	+1	+2	+3
.	+9	+10	+6	+2	+3	+3
ST 100 W	+12	+10	+4	+1	+4	+2
.	+9	+6	+2	+4	+4	+5
ST 150 W	+6	+7	+5	+4	+6	+6
.	+4	+4	+5	+5	+5	+10
ST 200 W	+3	+8	+5	+4	+3	+7
.	+4	+8	+5	+2	+2	+4
ST 250 W	+6	+7	+4	+2	+3	+10

	L-600s
ST 250 E	-10
.	-10
200 E	-8
.	-10
150 E	-10
.	-11
100 E	-11
.	-10
50 E	-9

	L-600s
ST 50 W	0
.	0
ST 100 W	+6
.	+5
ST 150 W	+5
.	+5
ST 200 W	+7
.	+7
ST 250	+7

Callum Ulf Data

	L-000	L-50S	L-100S	L-150S	L-200S	L-250S
ST 250 E	-14	-11	-7	-4	-2	-5
ST	-14	-12	-11	-4	-6	-5
ST 200 E	-11	-14	-9	-6	-6	-6
	-15	-11	-11	-8	-5	-4
ST 150 E	-14	-16	-9	-6	-4	-2
	-16	-13	-12	-6	-4	-5
ST 100 E	-19	-13	-14	-5	-4	-3
	-19	-12	-14	-6	-3	-2
ST 50E	-16	-14	-10	-4	-1	0
	-14	-11	-10	-2	-1	+1
ST 000	-12	-11	-6	-2	0	+2
	-12	-11	-9	-3	0	+1
ST 50W	-10	-6	-2	0	+2	+2
	-7	-8	-5	+4	+3	+6
ST 100W	-1	-5	+2	+7	+6	+4
	0	-4	0	0	+3	+5
ST 150W	+6	-4	-1	+2	+4	+6
	+1	-10	-2	0	+4	+7
ST 200W	+4	-6	-4	-2	+4	+8
	+4	-8	-3	0	+3	+2
ST 250W	0	-4	-2	0	+4	+2

VLF 8.5KL
340 Readings

Callum Vlf Data

	L200N	L 150N	L 100N	L 50N
ST				
ST 250 E	-24	-20	-18	-16.5
ST ·	-22	-19	-17	-14
ST 200 E	-22	-20	-19	-14
·	-21	-22	-22	-17
ST 150 E	-20	-22	-26	-18
·	-16	-24	-29	-21
ST 100 E	-12	-18	-21	-21
·	-10	-18	-16	-18
ST 50 E	-6	-14	-14	-16
·	-4	-8	-6	-16
ST 000	0	-4	-5	-11
·	0	-2	-3	-8
ST 50 W	+2	+2	0	-8
·	+8	+2	+2	0
ST 100 W	+9	+6	+4	+2
·	+10	+6	+5	+4
ST 150 W	+12	+10	+8	+7
·	+12	+11	+10	+7
ST 200 W	+16	+11	+9	+7
·	+16	+10	+9	+7
ST 250 W	+16	+10	+8	+3

Callum Vlf Data 340 READINGS

8.5 KL of Data

L 200 N

Station	Time	Reading	Drift	Corrected
000	1.14	57724	-9	57715
.		612		603
50 E		806	-8	798
.		819		811
100 E		942	-7	935
.		781		774
150 E		776		769
.		704	-6	698
200 E		727		721
.		696		690
250E	1.20	640		634
			-5	

L 150 N

250 E	1.22	57748		57744
.		722		718
200 E		703	-4	699
.		820		816
150 E		785	-3	782
.		782		779
100 E		523	-2	521
.		624	-1	623
50 E		57142	0	57142
.		58148		58149
		58290	+1	58291
		57575		57576
000	1.34	57685	+2	57687

L 550 S

STATION	TIME	READING	DRIFT	CORRECTED
6250 W	7.32	57778	-41	57737
		710		670
		705	-40	665
200 W		680		641
		715	-39	676
		676		638
		681	-38	643
150 W		697		660
		646	-37	609
		711		675
		669	-36	633
100 W		723	-35	688
		687		653
		703	-34	669
50 W		697		664
		771	-33	738
		696		664
		701	-32	669
000	7.46	702		671
		712	-31	57681

L 600S

000	7.49	57634	+2	57636
		689		691
		705		707
50 W		739		741
		672		674
		703		705
		734		736
100 W		689		691
		717		719
		690		692
		690		692
150 W		690		692
		688		690
		657		659
		706		708
200 W		703		705
		744		746
		661		663
250 W	8.00	658		660
TIN 000	8.10	57634	+2	57636
L400S/000	8.15	57490	-10	57480

L 600 S

STATION	Time	Reading	Corr	Corrected
000	7.43	57622	+14	57636
		675		688
50 E		624		637
		678	+12	690
100 E		689		701
		677	+11	688
		666		677
150 E		691	+10	701
		699		709
		705	+10	715
		734		744
200 E		700	+9	709
		696		705
		724	+8	732
250 E	7.51	710	+7	717

T.I.N

000	7.57	57632	+4	57636

L 500 S

000	7.14	57805	-55	57750
		739	-53	686
50 W		701	-52	649
		719		668
		640	-51	589
100 W		651		601
		673	-50	623
		721		672
150 W		678	-49	629
		714		666
		685	-48	637
		680	-47	633
200 W		743	-46	697
		695		650
		712	-45	667
250 W	7.30	708		665
		795	-43	752

L 450 S

STATION	TIME	READING	DRIFT	CORRECTED
		575	+25	
E	7.00	586		57600
		602		611
50 E		548		627
		731		573
		688		756
		516		713
100 E		583		541
		670		608
		630		695
150 E		651		655
		662		676
		517		687
		741	+24	541
200 E		791		765
		762		815
		756		786
250 E	7.08	777		780
		744		801
				768

L 400 S

250 E	7.10	57625	+24	57649
		675		699
		659		683
200 E		603		627
		866		890
		802	+23	825
150 E		846		869
		180		203
		508		531
		387		410
100 E		070		093
		556		079
		880		603
		711		734
50 E		708		731
		695		718
		643		666
		698		721
		658		721
000	7.19	535		557
		57458	+22	57480
L 450S/000	7.21	57586	+23	57609

L 400 S

STATION	TIME	READING	DRIFT	CORRECTED
000	6.23	57460	+20	57480
		412		57432
50W		56005		56025
		58023		58043
		57794		57814
100W		57853		57873
		58036		58056
		58136		58156
		58277		58297
150W		58079	+21	58099
		55384		55404
		57106		57127
200W		627		57648
		621		642
		608		629
		630		651
250W	6.39	563		584
		618		639
		643		664
		709	+22	731
		628		57650

L 450 S

250W	6.41	57649	+23	57672
		583		606
200W		766		789
		648		671
150W		589		612
		599		623
		588	+24	612
100W		575		599
		637		661
		601		625
50W		534		558
		718		742
		786		810
		731		755
000		691		715
		596		621
		584	+25	57609

L 350 S

STATION	TIME	READING	DRIFT	CORRECTED
	5.45	58205	+11	58216
		57344		57355
50 E		861	+12	873
		945		957
		841		853
100 E		781		793
		796	+13	809
		748		761
		814		827
150 E		750		763
		662	+14	676
		532		546
		57835		[illegible]
		58683		58697
200 E		56368	+15	56383
		56501		56516
		57631		57646
		688		703
250 E		724	+16	740
		875		891
275 E	5.58	680	+18	697
		693		711

L 300 S

250 E	6.01	57671	+19	57690
		697		716
		700		719
200 E		736	+20	756
		768		788
		678		698
150 E		668		688
		704	+21	725
		792		813
		707		728
100 E		727		748
		701	+22	723
		681		703
50 E		706		728
		730		752
		751	+23	774
		811		834
		641	+24	665
000	6.12	57645		57669
		56203	+25	56228
		57714		57739

TIN 250S/000	6.15	57710	+17	57727
200S/000	6.16	57660	+15	57675
350S/000	6.20	57875	+13	57888

STATION	TIME	READING	DIFF	CORRECTED
000	5.20	57782	+ 17	57739
.		673		690
50W		633		650
.		652		669
100W		605		622
.		691	+ 16	707
150W		57791		807
.		57978		57994
200W		58147		58163
.		58511		58527
		57120		57136
		379		395
		541		557
250W	5.30	702	+	717
		573		57588

L 350 =

250W	5.32	57776	+ 14	57790
.		678		692
		587		601
200W		559		573
.		639		653
		399		57413
		58000		58014
150W		612	+ 13	58625
.		665		58678
		825		838
		710		723
100W		770		783
		58962		58975
.		792	+ 12	804
		779		791
50W		796		808
		705		717
.		604		616
		58192		58204
000	5.45	57943		57754
		877	+ 11	57888

L 250 S

STATION	TIME	READINGS	DRIFT	CORRECTED
	4.55	57644	+25	57669
50 E		657		682
		721		746
100 E		654		679
		749		774
150 E		468		493
		362		387
		− 547		572
200 E		657		682
		− 693		718
		772		797
		− 723		748
250 E	5.03	− 687	+24	711
		− 655		679

L 200 S

250E	5.05	57671	+24	57695
		715		739
200 E		714		738
		669		693
150 E		673		697
		621		645
		− 634		658
100 E		680		704
		696		720
50 E		723		747
		725		749
		− 631		655
000	5.14	703		726
		−57652	+23	57675
L250S/000	5.17	57705	+22	57727

L 200 S

STATION	TIME	READINGS	DRIFT	CORRECTED
000	4.27	57647	+29	57675
		698		727
		660		689
50 W		621		650
		57507		57536
		56894		56923
		54863		54892
100 W		58242		58271
		59765		59794
		57682		57710
		623	+28	57651
150 W		589		617
		604		632
		608		
		612		640
200 W		647		675
		638		666
250 W	4.40	699	+27	57726

L 250 S

250 W	4.42	57540	+27	57567
		624		651
200 W		491		518
		506		533
		544		571
150 W		625		652
		643	+26	669
100 W		834		860
		614		640
		819		845
50 W		851		877
		666		692
		679		705
		687		713
000		701		726
	4.55	702	+25	57727

L 150 S

STATION	TIME	READING	DRIFT	CORRECTED
000	1.55	57828	+8	57836
.		841	+7	848
		915		922
50 E		902	+6	908
		690		696
.		695	+4	699
		905		909
		629	+2	631
100 E		706		708
.		740	0	740
		728		728
150 E		715	-2	713
.		735	-4	731
200 E		788	-6	782
.		740	-7	733
250 E	2.04	728	-8	720

L 100 S

250 E	2.06	57747	-14	733
.		746	-16	730
200 E		663	-18	645
.		726	-20	706
150 E		725	-22	703
.		728	-24	704
100 E		724	-26	698
.		57679	-28	57651
		58364		58336
50 E		58024	-32	57992
		57500		466
.		597	-34	563
		715		
000	2.18	57739	-36	57703
L 000/000	2.20	57723	-52	57671
L 200N/000	2.25	57773	-58	57715

L 100 S

STATION	TIME	READING	DRIFT	CORRECTED
000	1.27	57653	+50	57703
.		- 656	+47	703
		— 676		723
50 W		. 738	+45	783
.		— 845		890
		. 836	+43	879
		- 884		57927
100 W		. 58147	+41	58186
		- 57270		57311
.		. 241	+39	280
		468		507
150 W		. 619	+37	656
		- 524		561
.		. 480	+35	515
		- 591		626
200 W		. 477	+33	510
		— 554		587
.		598	+31	629
250 W	1.37	57587	+29	616

L 150 S

250 W	1.39	57722	+22	744
.		. 653		673
		— 643	+20	663
200 W		. 610		627
		- 604	+17	621
.		57666	+14	680
150 W		661	+11	672
.		57660	+9	669
		. 648		654
100 W		57188	+6	194
.		.57814	+3	817
		— 363		366
50 W		. 662	0	662
		— 657		657
.		. 698	-3	695
		— 698		695
000	1.51	. 739	-6	733
		— 842		57836
TIN 4005/000	1.53	57703	+0	57703

L 50 S

STATION	TIME	READING	DRIFT	CORRECTED
	12.50	.57653	+98	57751
25 E		- 58079	+96	58175
50 E		.58967	+94	59061
		- 59913		60007
		.55341	+92	55433
100 E		- 57413		57505
		.57578	+90	57668
		- 57583		57673
150 E		.543	+88	631
		- 526		614
		.453	+86	539
200 E		- 57420		506
		.522	+84	606
		- 57668		752
250 E		.659	+83	742
		- 578		661
		.593	+81	674
		- 605		686
		.625	+79	704
		- 760		839
300 E	1.07	.57212	+77	889
		- 57511		588
		.552	+75	627
		- 563		57638

L 000

250 E	1.10	57514	+69	57583
		.576		643
		- 590	+67	657
200 E		.607		672
		- 57593	+65	658
		.610		673
		- 597	+63	660
150 E		.611		673
		- 569	+62	631
		.550		611
		- 533	+61	594
100 E		.546		605
		- 578	+59	637
		.724		781
		- 827	+57	884
50 E		.57789		57844
		- 58372	+55	58427
		.58067		58120
		- 57688	+53	57741
000 E	1.22	.57707		759
		- 57619	+52	57671

TI IN

L50S/000	1.24	57564	+52	57616

L 100 S

STATION	TIME	READING	DRIFT	CORRECTED
000	1.27	57653	+50	57703
.		. 656		703
		— 676	+47	723
50 W		. 738		783
.		— 845	+45	890
		. 836	+43	879
100 W		— 884		57927
.		. 58147	+41	58188
		— 57270		57311
		. 241	+39	280
150 W		. 468		507
.		. 619	+37	656
		— 524		561
		. 480	+35	515
200 W		— 591		626
.		. 477	+33	510
		— 554		587
		. 598	+31	629
250 W	1.37	57587	+29	616

L 150 S

250 W	1.39	57722	+22	744
.		. 653		673
		— 643	+20	663
200 W		. 610		627
.		— 604	+17	621
		57666	+14	680
150 W		661	+11	672
.		57660	+9	669
		. 648		654
100 W		57188	+6	194
.		. 57814	+3	817
		— 363		366
50 W		. 662	0	662
.		— 657		657
		. 698	-3	695
		— 698		695
000	1.51	. 739	-6	733
		— 842		57836
TIE L 100S/000	1.53	57703	+0	57703

L 50N

LOCATION	TIME	READINGS	DRIFT	CORRECTED
000	11.28	58091	+187	58278
		57311		57491
		-57357	+180	57537
		511		57739
50 w	11.54	-60049	+114	60163
		62415		62525
		-58416	+110	58526
		57699		57805
100 w		-637	+106	743
		573		675
		-57596	+102	698
		612		710
150 w		-538	+98	636
		510	+94	604
200 w		601	+90	691
		604	+86	690
250w		57576	+82	57658

L 100N

250 w	12.03	57453	+78	57531
		593	+76	669
200 w		668	+72	740
		637		705
		-626	+68	694
150 w		695	+64	759
		678		738
		-541	+60	601
		603		661
100 w		-691	+58	749
		650	+54	704
		-441		495
		451	+50	501
50 w		-470		520
		467	+45	512
		-519		564
		463		503
000	12.12	-57417	+40	57457
TIN 50N/000	12.13	58196	+82	58278
200N/000	12.18	57660	+55	57715

Correcto

000	12.24	57577	+94	57671
.		847		941
		. 844		938
50w		-57316		57410
.		.55412		55506
		-54444		54538
100w		. 55254	V	55348
		-58261		58355
.		. 59819		59913
		- 58916		59010
150w		. 59467		59561
		- 59623		59717
.		. 57510		57604
		- 56424		56518
200w		. 57024		57118
		- 57430		57524
.		. 56977		57071
		- 59482		59576
250w	12.35	. 57444	+95	57539
		- 57607		57702
		. 630		57725
L 50s				
250w	12.37	57351	+96	57447
		. 440		536
		- 540		636
		. 674		57770
200w		- 56714		56810
.		. 56638	V	56734
		- 56063		56159
150w		. 59564		59660
		- 60689		60785
.		. 59004		59100
		- 58016		58112
100w		. 57883		57979
		- 57888		57984
.		. 58251		58347
		- 58763		58859
50w		. 59418		59514
		- 57733		57829
.		492		588
		- 451		547
000	12.49	436 - 57547	+97	532 57616
TIN 000/000	12.50	57573	+98	57671

4 100N

STATION	TIME	READING	DRIFT	CORRECTED
000	10.59	57346	+109	57457
		• 56962		57075
		– 57649	+113	57762
50E		• 58683	+117	58800
		– 57843		57960
		• 57643	+120	763
		– 57667		787
100E		• 57926	+124	58050
		– 58387		58511
		• 56823	+125	56948
		– 57277		57402
150E		• 474	+129	603
		– 539		668
		• 523	+133	656
		– 521		654
200E		587	+136	723
		650	+139	789
		• 618		758
250E	11.10	57578	+140	718
			+141	

L 50N

250E	11.12	• 57584	+141	57725
		– 58332		58473
		• 58881	+145	59026
		– 57402		57547
200E		• 618	+148	766
		– 660		808
		• 639	+152	791
		– 611		763
150E		• 553	+155	708
		– 554		709
		• 502	+157	659
		– 530		687
100E		• 369	+161	530
		– 57087		57248
		• 55991	+165	56156
		– 56873		57038
50E		• 57426	+168	594
		– 442		610
		• 437	+170	607
		– 57680		57850
000	11.26	• 58689	+174	58863
		– 58104		58278

L 200 N

STATION	TIME	READING	DRIFT	CORRECTED
000	10.32	57655	+60	57715
.		594	+62	656
50 W		642	+64	706
.		621	+66	687
100 W		535	+68	603
.		619	+70	689
150 W		610	+72	682
.		651	+73	724
200 W		.428 - 352	+74	.502 - 426
.		.182 - 137	+75	.257 - 212
250 W	10.44	.56938 -57234	+76	.014 - 310

L 150 N

250 W		57747	+ 79	826
.		832	+ 80	912
200 W		720	+ 81	801
.		700	+ 83	783
150 W		673	+ 85	758
.		606	+ 86	692
100 W		627	+ 87	714
.		644	+ 88	732
50 W		667	+ 89	756
.		556	+ 90	646
000	10.53	596	+ 91	57687
TIE IN L 200 N/000	10.55	57656	+ 59	57715

Callum claims

Base Line magnetic Survey Data

	Station	Time	Reading	Drift	Corrected
	200 N	19	57715	0	57 715
	"		662	0	662
	1150 N		687	0	687
	"		570	0	570
	1100 N		57458	-1	57457
	"		56868	-1	56867
	50 N		58279	-1	58278
	"		57655	-2	57653
	000	25	57673	-2	57671
T1 IN	200 N	28	57717	-2	57715
	000	31	679	-8	57671
	"		493	-8	485
	50 S		625	-9	616
	"		674	-10	664
	1100 S		714	-11	703
	"		745	-12	733
	1150 S		849	-13	836
	"		753	-14	739
	2000 S	35	690	-15	57675
T11 IN	000	38	57686	-15	57671
	2000 S	412	685	-100	57675
	"		814	-10	804
	250 S		737	-10	727
	"		662	-10	652
	300 S		749	-10	739
	"		836	-11	825
	350 S		57899	-11	57888
	"		58035	-11	58024
T11 IN	4100 S	417	57491	-11	57480
	2000 S	52	57686	-11	57675

BASE LINE

STATION	TIME	READING	DRIFT	CORRECTED
400 S	55	57488	-8	57480
		657	-8	650
450 S		616	-7	609
		667	-7	660
500 S		756	-6	750
		709	-6	703
550 S		686	-5	681
		699	-5	694
600 S	59	57640	-4	636
400 S	1:02	57483	-3	57480