1M

Callum 1-8 claims
YMIP #00-034
TARGET EVALUATION

YEIP
2000-
034
2000

YUKON MINING INCENTIVES PROGRAM

TARGET EVALUTION PROGRAM

YMIP-034

GEOPHYSICAL SURVEY / SOIL SURVEY

MAYO MINING DISTRICT

FORTY MILE CREEK AREA

CALLUM 1-4 CLAIMS

NTS# 115 P/ 15

AUTHOR OF REPORT SHAWN RYAN

DATE OF WORK AUGUST-SEPTEMBER 2000

DATE OF REPORT JANUARY 2001

TABLE OF CONTENT

SUMMARY

The Callum 1-8, and Alpine 1-38 claims, grant # YCO1939-YCO1942, YCO -YCO ,YCO1902-YCO1938 registered in the Mayo Mining District to Shawn Ryan will be renewed for 3 years. A magnetometer survey on the Callum 1-4 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.

COST

10 00 Kilometers of Grid lines @ $350 00 KL		$3,500 00
10.00 Kilometers of Magnetic Survey @ $250.00 KL		$2,500.00
8.50 Kilometers of VLF Survey @ $250.00 KL		$2,125.00
Soil Work 6 man days at $200.00 a day		$1,200.00
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		$ 900.00
Assay Work		$1,670 00
Soil drying, sorting and shipping		$ 400.00
Report Preparation		$1,200.00
	Total	$15,445.00

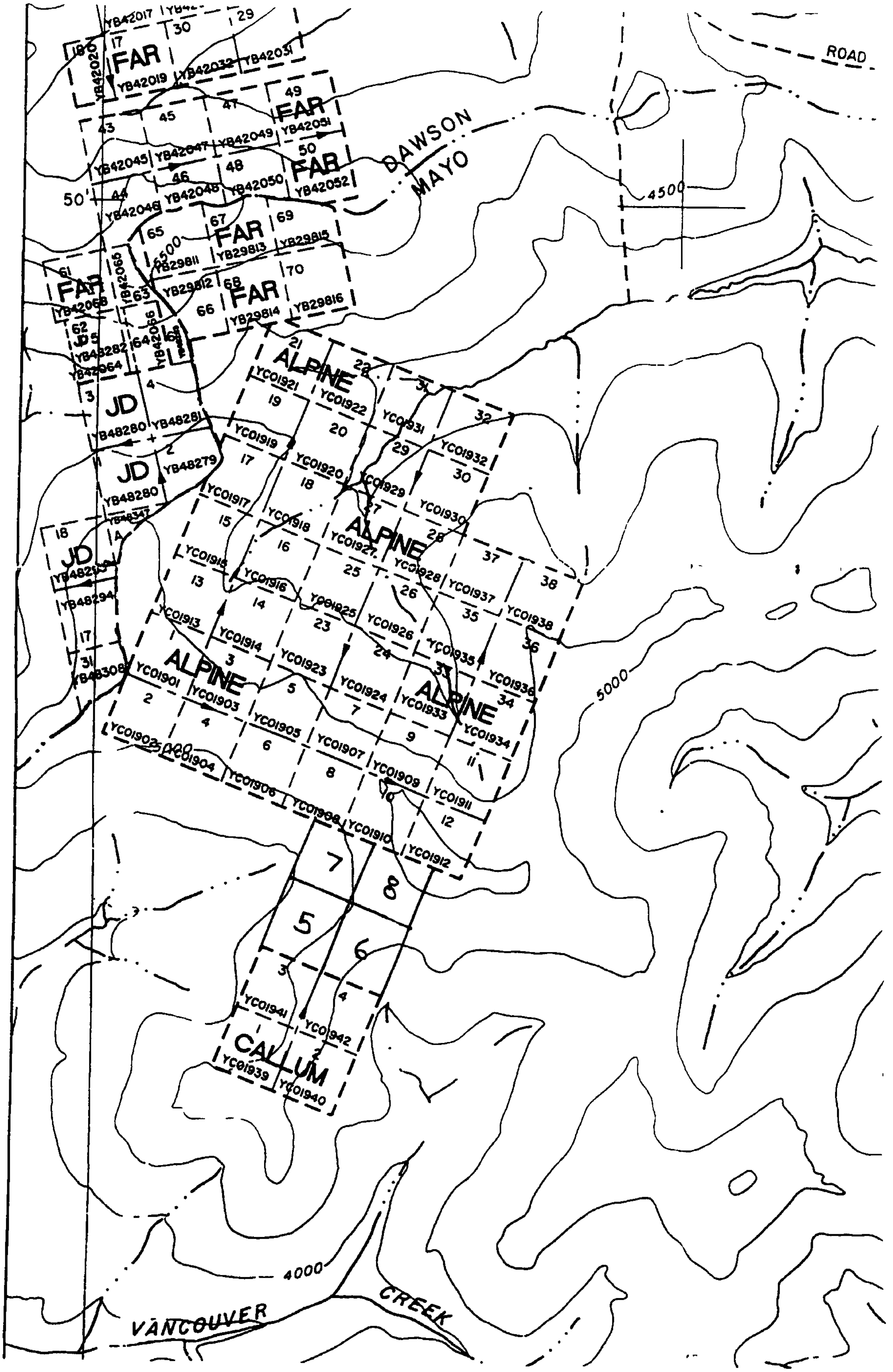
ROCK DESCRIPTION

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



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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
ss	L50N-000	27
ss	L50N-25E	22
ss	L50N-50E	20
ss	L50N-100E	28
ss	L50N-150E	22
ss	L50N-200E	27
ss	L50N-250E	22
ss	L100N-00E	41
ss	L100N-25	28
ss	L100N-50E	28
ss	L100N-50EB	37
ss	L100N-75E	39
ss	L100N-100E	25
ss	L100N-125E	34
ss	L100N-150E	33
ss	L100N-200E	37
ss	L100N-250E	31
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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27/09/2000 Certificate of Analysis

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
ss	L600E-25E	62
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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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

Callum

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Project
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Page Number 1-A
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Account PRP

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

Callum Rocks

Callum Rocks are Label ~~From~~ with STATION LOCATION of GRID COORDINATES

GAL P.T. 2BTR Rock, Bottom of Soil PiT, LocaTion L55N/75W

CERTIFICATION

NTS #115 P/15

ALS Chemex
Aurora Laboratory Services Ltd
Analytical Chemists * Geochemists * Registered Assayers
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Page Number 1-B
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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 ____________

ALS Chemex
Aurora Laboratory Services Ltd
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX 604-984-0218

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Project:
Comments: ATTN SHAWN RYAN

Page Number: 1-A
Total Pages: 2
Certificate Date: 08-DEC-2000
Invoice No: I0034983
P O Number:
Account: PRP

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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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] SO 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 FOUND 5 FT FROM PIT
GA1-TS-02 RED Soil FOUND 5 FT DOWN IN PIT
GA1-TS-03 BROWN Soil B-HORIZON AT TOP OF PIT

CERTIFICATION:

LOCATION L-55N/75W

iPL
INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS
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[154415 50:30-00112000]

ISO 9002

Northern Analytical Laboratories
Project : WO#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	PULP	REJECT
831100	36	Pulp	Pulp received as it is. no sample prep	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

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	Molydenum	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	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0 01	5 00
30	0719	ICP	%	P ICP	Phosphorus	0 01	5 00

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

BC Certified Assayer: David Chiu

INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS
iPL 00K1544

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Client Northern Analytical Laboratories
Project WO#00167

36 Samples
36=Pulp

[154415 50 30 00112000]

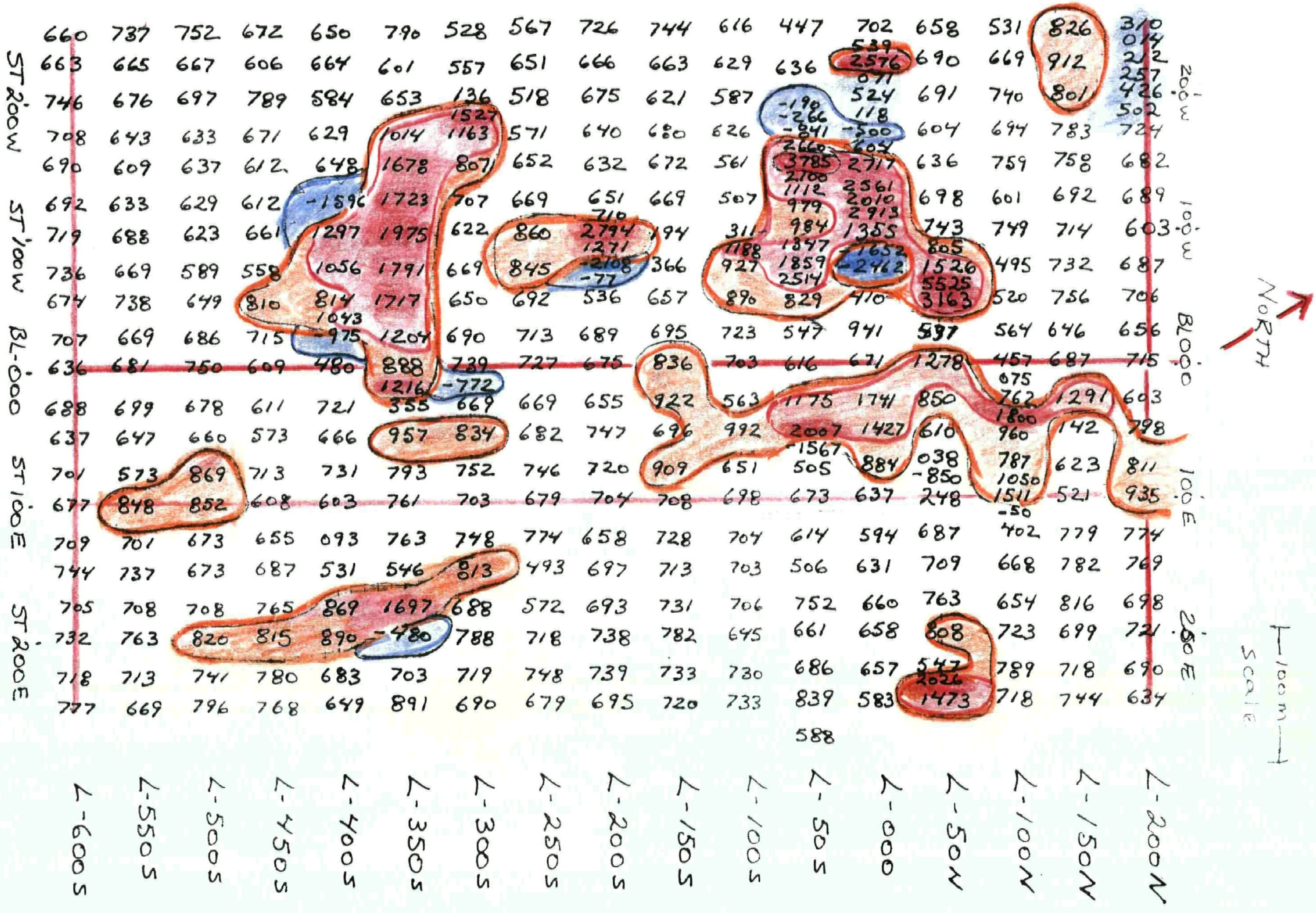
Out Nov 20 2000
In Nov 15 2000

Page 1 of 1
Section 1 of 1

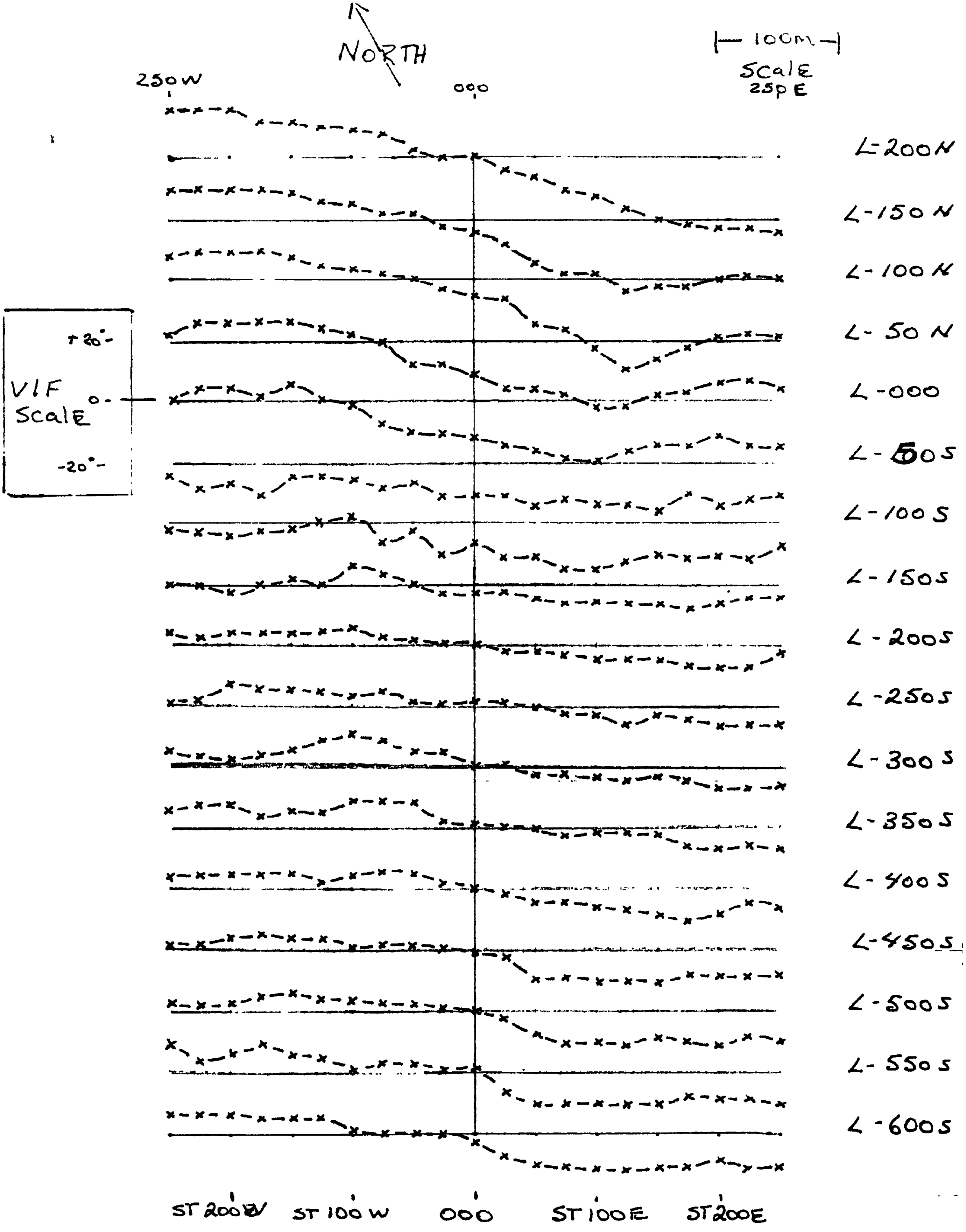
Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L400S 00	P	2 0	865	32	55	<	<	<	5	<	75	2 7	12	14	86	<	40	61	259	9	30	7	4	0 16	2 32	0 06	161	0 21	0 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	7	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		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	11	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		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	[illegible]	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		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	17	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 57	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 m=x1000 % Estimate % NS=No Sample P=Pulp

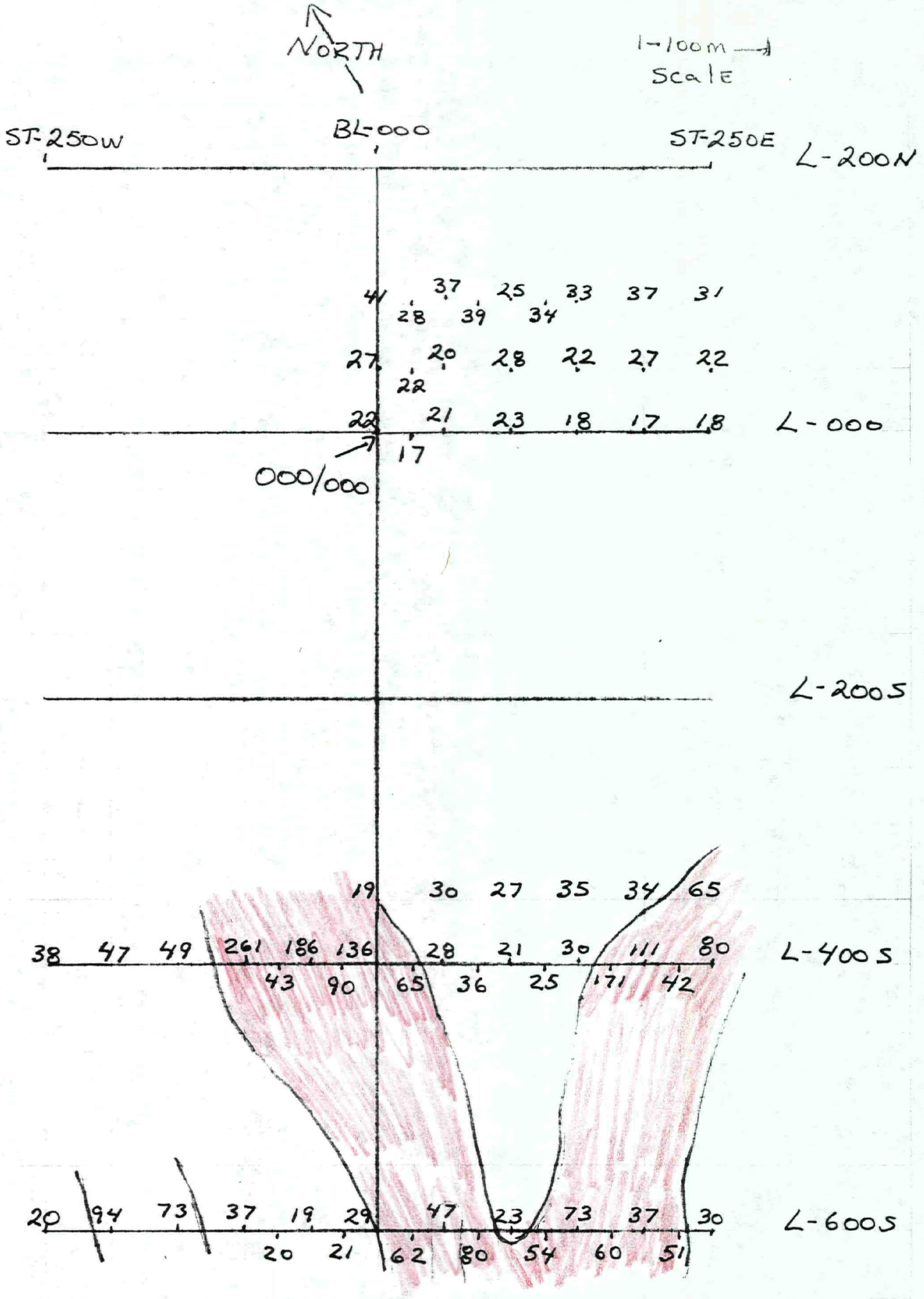
Callum Magnetic Survey



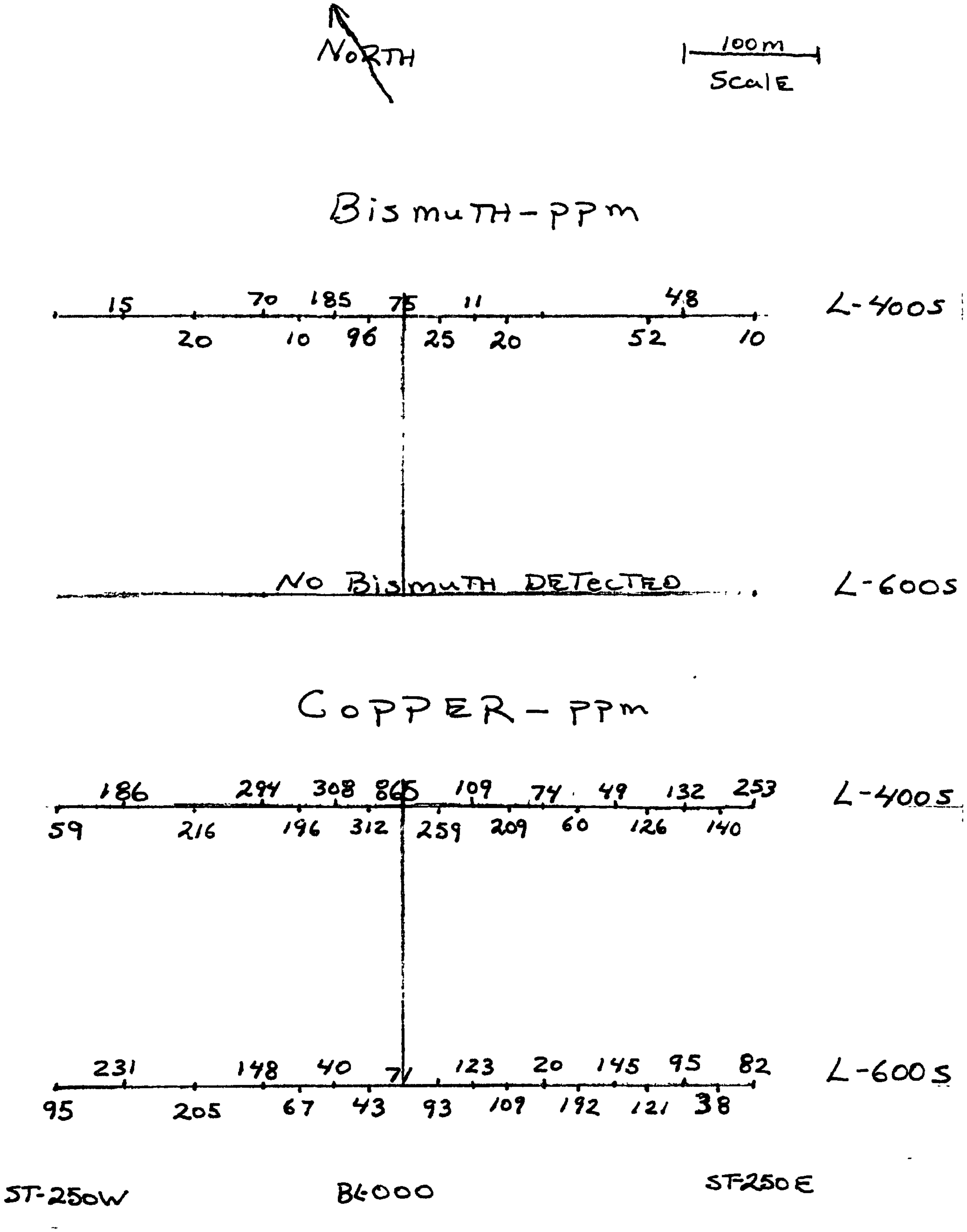
	L-600S	L-550S	L-500S	L-450S	L-400S	L-350S	L-300S	L-250S	L-200S	L-150S	L-100S	L-50S	L-000	L-50N	L-100N	L-150N	L-200N	
	660	737	752	672	650	790	528	567	726	744	616	447	702	658	531	826	310 014	
ST 200W	663	665	667	606	664	601	557	651	666	663	629	636	539 2576 071	690	669	912	212 257	
	746	676	697	789	584	653	136	518	675	621	587	-190	524	691	740	801	426	200W
	708	643	633	671	629	1014	1527 1163	571	640	680	626	-266 -841	118 -500	604	694	783	502 724	
	690	609	637	612	648	1678	807	652	632	672	561	2660 3785	204 2717	636	759	758	682	
ST 100W	692	633	629	612	-1896	1723	707	669	651	669	507	2100 1112	2561 2010	698	601	692	689	
	719	688	623	661	1297	1975	622	860	710 2794	194	311	979 984	2913 1355	743	749	714	603	100W
	736	669	589	558	1056	1791	669	845	1271 -2108	366	1188 927	1347 1859	-1652 -2462	805 1526	495	732	687	
	674	738	649	810	814 1043	1717	650	692	-77 536	657	890	2514 829	410	5525 3163	520	756	706	
	707	669	686	715	-975	1204	690	713	689	695	723	547	941	597	564	646	656	
BL-000	636	681	750	609	480	888	739	727	675	836	703	616	671	1278	457	687	715	BL00
	688	699	678	611	721	1216 355	-772 669	669	655	922	563	1175	1741	850	075 762	1291	603	
	637	647	660	573	666	957	834	682	747	696	992	2007	1427	610	1800 960	142	798	
	701	573	869	713	731	793	752	746	720	909	651	-1567 505	884	038 -850	787 1050	623	811	
ST 100E	677	848	852	608	603	761	703	679	704	708	698	673	637	248	1511 -50	521	935	100E
	709	701	673	655	093	763	748	774	658	728	704	614	594	687	402	779	774	
	744	737	673	687	531	546	813	493	697	713	703	506	631	709	668	782	769	
	705	708	708	765	869	1697	688	572	693	731	706	752	660	763	654	816	698	
ST 200E	732	763	820	815	890	-480	788	718	738	782	645	661	658	808	723	699	721	200E
	718	713	741	780	683	703	719	748	739	733	730	686	657	547 2026	789	718	690	
	777	669	796	768	649	891	690	679	695	720	733	839 588	583	1473	718	744	634	



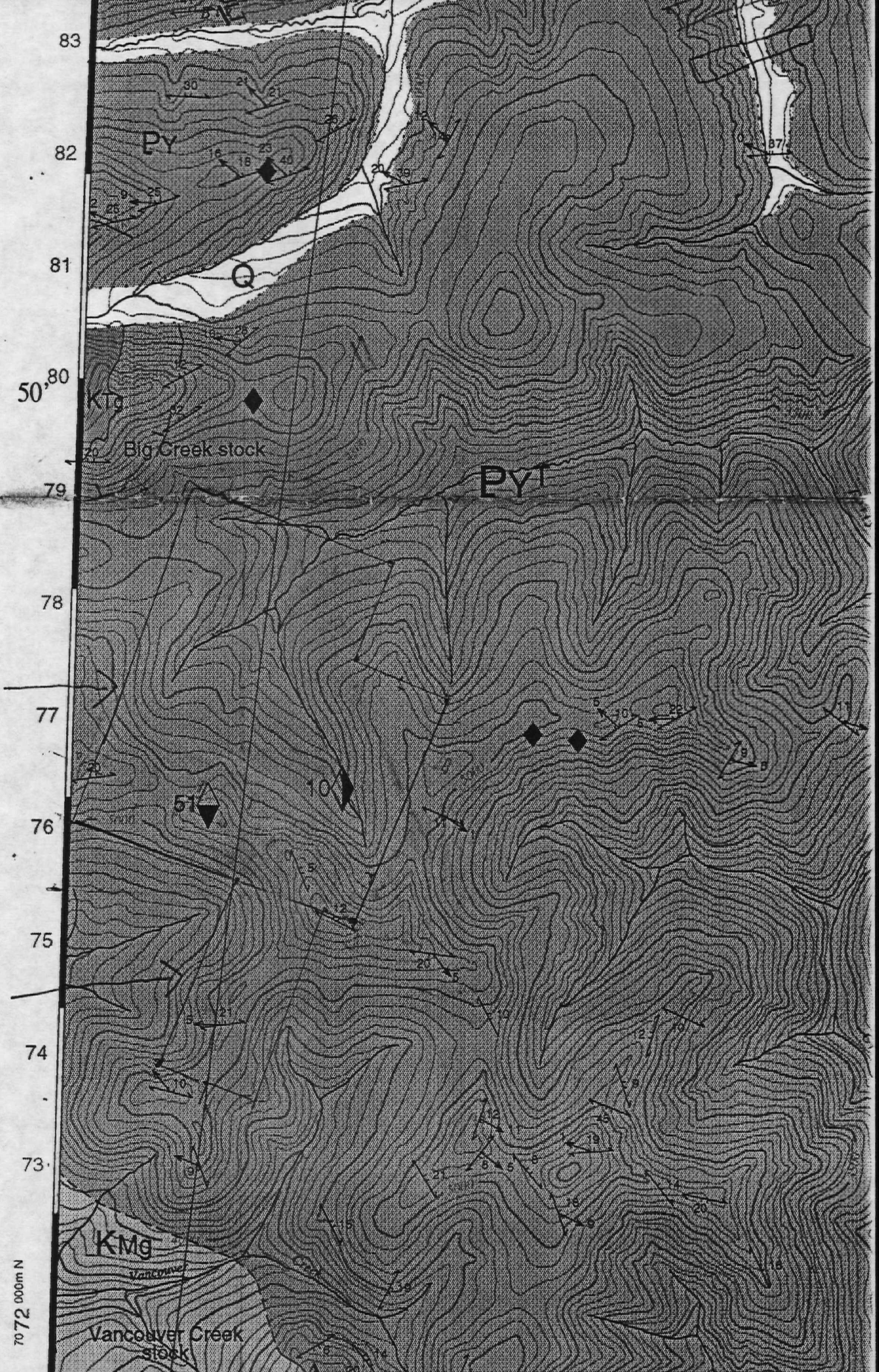
Callum VLF GRID



Callum Soil Geochem Au-ppb



Callum Soil Lines



Alpine 1-38 Claims

Callum 1-8 Claims

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

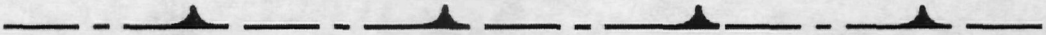
€Gc	Gull Lake Formation[3] :Tan- to brown-weathering thinly-bedded calcareous siltstone, sandstone, shale and limestone
€Gs	Gull Lake Formation[3]: Greenish-grey phyllite with mm-scale siltstone laminae, uncommon sandstone and pebbly sandstone, and greenish-grey chert
€Gq	Gull Lake Formation[3]: Light 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
PY	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



PYT	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)

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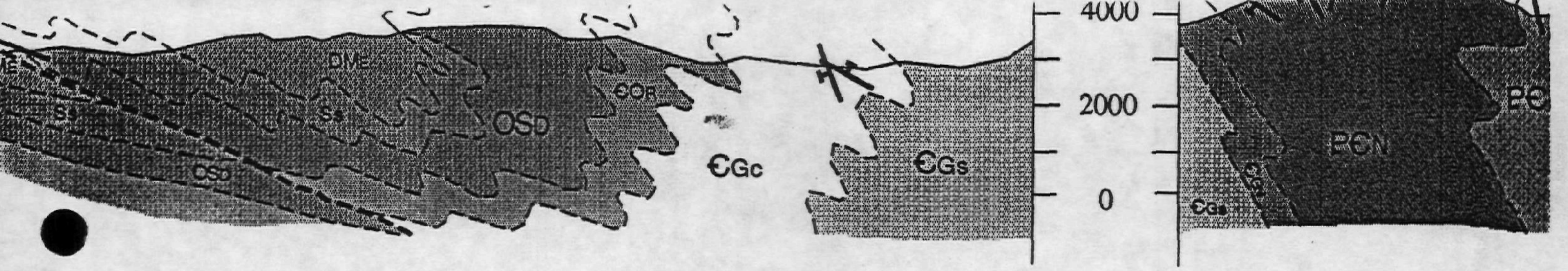
1 64-67 Ma U-Pb zircon and/or monazite age determinations by Jim Mortensen, University of British Columbia

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



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

€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.

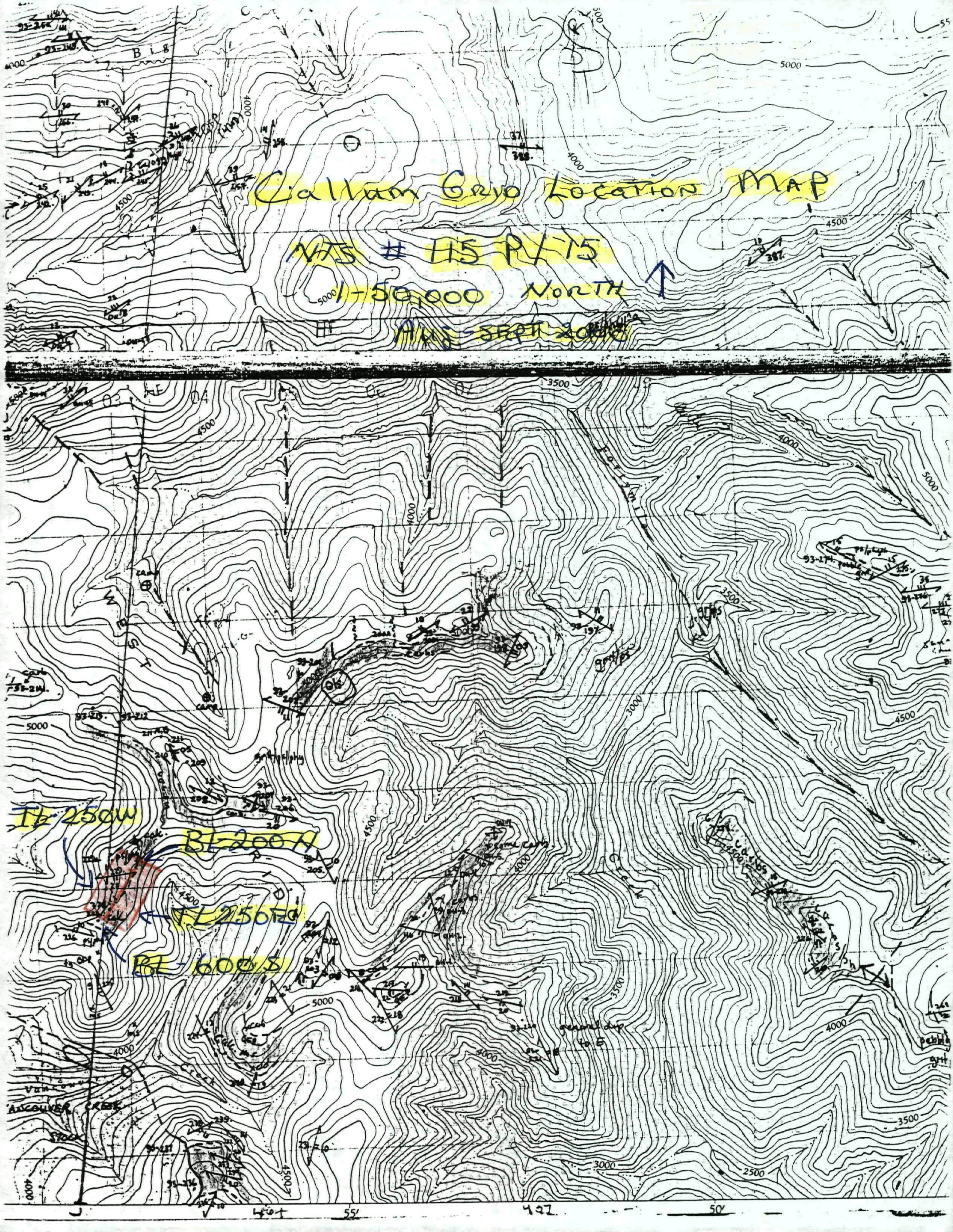
unconformity

Callam Grid Location Map

NTS # 115 P/15

1-50,000 NORTH

Aug-Sept 2006



CAllum claims

BASE LINE MAGNETIC SURVEY DATA

	STATION	TIME	READING	DRIFT	CORRECTED
	200 N	19	57715	0	57715
	·		662	0	662
	150 N		687	0	687
	·		570	0	570
	100 N		57458	-1	57457
			56868	-1	56867
	50 N		58279	-1	58278
	·		57655	-2	57653
	000	25	57673	-2	57671
Ti IN	200N	28	57717	-2	57715
	000	31	679	-8	57671
	·		493	-8	485
	50 s		625	-9	616
	·		674	-10	664
	100 s		714	-11	703
	·		745	-12	733
	150 s		849	-13	836
	·		753	-14	739
	200 s	35	690	-15	57675
Ti IN	000	38	57686	-15	57671
	200 s	42	685	-10	57675
	·		804	-10	794
	250 s		737	-10	727
	·		662	-10	652
	300 s		749	-10	739
	·		836	-11	825
	350 s		57899	-11	57888
	·		58035	-11	58024
Ti IN	400 s	47	57491	-11	57480
	200 s	52	57686	-11	57675

BASE LINE

STATION	TIME	READINGS	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

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
TI IN L200N/000	10.55	57656	+ 59	57715

L 100N

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

L 50N

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

L 000

STATION	TIME	READING	DRIFT	CORRECTED
000	12.24	57577	+94	57671
.		847		941
		· 844		938
50 W		– 57316	↓	57410
.		· 55412		55506
		– 54444		54538
		· 55254		55348
100 W		– 58261		58355
.		· 59819		59913
		– 58916		59010
150 W		· 59467		59561
		– 59623		59717
		· 57510		57604
.		– 56424		56518
		· 57024		57118
200 W		– 57430		57524
		· 56977		57071
.		– 59482		59576
		· 57444		57539
250 W	12.35	– 57607	+ 95	57702
		· 630		· 57725

L 50 S

STATION	TIME	READING	DRIFT	CORRECTED
250 W	12.37	57351	+ 96	57447
		· 440		536
.		– 540		636
		· 674		57770
200 W		– 56714	↓	56810
		· 56638		56734
.		– 56063		56159
		· 59564		59660
150 W		– 60689		60785
.		· 59004		59100
		– 58016		58112
100 W		· 57883		57979
		– 57888		57984
,		· 58251		58347
		58763		58859
		59418		59514
50 W		57733		57829
		492		588
.		431		547
		436		532
000	12.49	57587	+ 97	57676

TIE IN 000/000	12.50	57573	+ 98	57671

L 50 N

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

L 100 N

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

L 100 S

STATION	TIME	READING	DRIFT	CORRECTED
000	1.27	57653	+50	57703
		. 656		703
.		— 676	+47	723
		. 738		783
50 w		— 845	+45	890
.		. 836	+43	879
		— 884		57927
100 w		. 58147	+41	58188
		— 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
		. 610		627
200 w		— 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
		. 739		733
000	1.51	— 842	-6	57836
T. IN L100S/000	1.53	57703	+0	57703

L 50 S

STATION	TIME	READING	DRIFT	CORRECTED
	12.50		+98	
		. 57653		57751
25 E		- 58079	+96	58175
50 E		. 58967	+94	59061
		- 59913		60007
.		. 55341	+92	55433
		- 57413		57505
100 E		. 57578	+90	57668
		- 57583		57673
		. 543	+88	631
		- 526		614
150 E		. 453	+86	539
		- 57420		506
.		. 522	+84	606
		- 57 668		752
200 E		. 659	+83	742
		- 578		661
.		. 593	+81	674
		- 605		686
250 E		. 625	+79	704
		- 760		839
.		. 57 212	+77	289
		- 57511		588
300 E	1.07	. 552	+75	627
		- 563		57638

L 000

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

T_1 IN

L50S/000 1.24 57564 +52 57616

L 150 S

STATION	TIME	READINGS	DRIFT	CORRECTED
000	1.55	57828	+8	57836
.		841 915	+7	848 922
50 E		902 690	+6	908 696
.		695 905	+4	699 909
100 E		629 706	+2	631 708
.		740 728	0	740 728
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
50 E		58364 58024	-32	58336 57992
.		57500 597	-34	466 563
000	2.18	715 -57739	-36	57703
L000/000	2.20	57723	-52	57671
L200N/000	2.25	57773	-58	57715

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		547		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 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
		· 657		682
200 E		— 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
200E		714		738
·		669		693
150E		673		697
		· 621		645
·		— 634		658
100E		680		704
·		696		720
50E		723		747
		· 725		749
·		— 631		655
		· 703		726
000	5.14	—57652	+23	57675
L250S/000	5.17	57705	+22	57727

L300S

STATION	TIME	READING	DRIFT	CORRECTED
000	5.20	57722	+·17	57739
·		673		690
50w		633		650
·		652		669
100w		605		622
·		691	+16	707
150w		57791		807
·		· 57978		57994
		— 58147		58163
		· 58511		58527
200w		— 57120		57136
·		· 379		395
		— 541		557
		· 702		717
250w	5.30	— 513	+·5	57528

L350S

STATION	TIME	READING	DRIFT	CORRECTED
250w	5.32	57776	+·14	57790
		· 678		692
·		— 587		601
		· 559		573
200w		— 639		653
·		· 399		57413
		— 58000		58014
		· 612	+13	58625
150w		— 665		58678
·		· 825		838
		— 710		723
		· 770		783
100w		— 58962		58975
·		· 792	+·12	804
		— 779		791
50w		· 796		808
		— 705		717
·		· 604		616
		— 58192		58204
		· 57943		57954
000	5.45	— 877	+11	57888

L 350 S

STATION	TIME	READING	DRIFT	CORRECTED
.	5.45	. 58205	+ 11	58216
		– 57344		57355
50 E		. 861		873
		– 945	+ 12	957
.		. 841		853
		– 781		793
100 E		. 796	+ 13	809
		– 748		761
.		. 814		827
		– 750		763
150 E		. 662	+ 14	676
		– 532		546
.		. 57835		57849
		– 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		697
		– 693	+ 18	711

L 300 S

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

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

L 400 S

STATION	TIME		READINGS	DRIFT	CORRECTED
000	6.23		57460	+20	57480
		·	412		57432
·		–	56005		56025
		·	58023		58043
50w		–	57794		57814
		·	57853		57873
·		–	58036		58056
		·	58136		58156
100w		–	58277		58297
		·	58079		58099
·		–	55384	+21	55404
			57106		57127
150w		–	627		57648
		·	621		642
·		–	608		629
		·	630		651
200w		–	563		584
		·	618		639
·		–	643		664
		·	709		731
250w	6.39	–	628	+22	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
		·	575		599
100w		–	637		661
		·	601		625
·		–	534		558
		·	718		742
50w		–	786		810
		·	731		755
·		–	691		715
		·	596		621
000		–	584	+25	57609

L 450 S

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

L 400 S

250 E	7.10	57625	+24	57649
.		. 675		699
		— 659		683
200 E		. 603		627
		— 866		890
.		. 802	+23	825
		— 846		869
150 E		. 180		203
		— 508		531
.		. 387		410
		— 070		093
100 E		. 056		079
		— 580		603
.		. 711		734
		— 708		731
50 E		. 695		718
		— 643		666
.		. 698		721
		— 698		721
000	7.19	. 535	+22	557
		— 57458		57480
L 450s/000	7 21	57586	+23	57609

L 600S

STATION	Time	Reading	Diurnal	Corrected
000	7.43	57622	+14	57636
·		675	+13	688
50E		624	+13	637
		· 678		690
·		— 689	+12	701
100E		· 677	+11	688
		— 666		677
		· 691	+10	701
		— 699		709
150E		· 705	+10	715
		— 734		744
·		· 700	+9	709
		— 696		705
200E		724	+8	732
·		710	+8	718
250E	7.51	770	+7	777

T1 IN

000	7.57	57632	+4	57636

L 500S

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

L 550 S

STATION	TIME	READING	DRIFT	CORRECTED
250 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
50w		· 739		741
		— 672		674
.		· 703		705
		— 734		736
100w		· 689		691
		— 717		719
.		· 650		692
		— 650		692
150 w		· 690		652
		— 688		680
.		· 657		659
		— 706		708
200 w		· 703		705
		— 744		746
		661		663
250w	8.00	658		660
TIE 000	8.10	57634	+2	57636
L400S/000	8.15	57490	-10	57480

L 200N

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 150N

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

Callum Ulf Data

	L200N	L150N	L100N	L50N
ST 250E	-24	-20	-18	-16
·	-22	-19	-17	-14
ST 200E	-22	-20	-19	-14
·	-21	-22	-22	-17
ST 150E	-20	-22	-26	-18
·	-16	-24	-29	-21
ST 100E	-12	-18	-21	-21
·	-10	-18	-16	-18
ST 50E	-6	-14	-14	-16
·	-4	-8	-6	-16
ST 000	0	-4	-5	-11
·	0	-2	-3	-8
ST 50W	+2	+2	0	-8
·	+8	+[illegible]2	+2	0
ST 100W	+9	+6	+4	+2
·	+10	+[illegible] +6	+5	+4
ST 150W	+12	+10	+8	+7
·	+12	+11	+10	+7
ST 200W	+16	+11	+9	+7
·	+16	+10	+9	+7
ST 250W	+16	+10	+8	+3

Callum Ulf Data 340 READINGS

8.5 KL of Data

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

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 100w	+12	+10	+4	+1	+4	+2
.	+9	+6	+2	+4	+4	+5
ST 150w	+6	+7	+5	+4	+6	+6
.	+4	+4	+5	+5	+5	+10
ST 200w	+3	+8	+5	+4	+3	+7
.	+4	+8	+5	+2	+2	+4
ST 250w	+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 w	+7