REPORT ON

GEOPHYSICAL AND GEOLOGICAL INVESTIGATIONS

OF THE Q-ZONE AND WINDY TARN SHOWINGS

OF THE QUILL CLAIMS

SKEENA MINING DIVISION
NTS 104B/7,8
56° 25' North Latitude, 130° 30' West Longitude

OWNER : ALLAN ST. JAMES
OPERATOR : ALLAN ST. JAMES

REPORT PREPARED BY : JOHN H. ADAMS
NOVEMBER 25, 1998.

Submitted for Assessment purposes : January 25, 1999.

TABLE OF CONTENTS

Page

1.0 Introduction 3
2.0 Location and Access 3
3.0 Property 3
4.0 Previous Work 3
5.0 Current Program 6
6.0 Geology 6
6.1 Regional Geology 6
6.2 Property Geology 7
6.3 Grid Geology 7
7.0 Geophysics 8
8.0 Prospecting 9
9.0 Itemized Cost Statement 12

Certificate 13

LIST OF FIGURES, TABLES AND MAPS

Figure 1 Property Location Map 4
Figure 2 Claim Map and Grid 5

Table 1 Rock Sample Descriptions and Analysis 10,11

Map 1 Grid Geology - Scale 1:1250 ..... In Pocket
Map 2 Total Field Ground Magnetics - Plotted Values - Scale 1:1250 ..... In Pocket
Map 3 Ground VLF-EM Profiles - 21.4 kHz - Annapolis - Scale 1:1250 ..... In Pocket
Map 4 Ground VLF-EM Profiles - 22.3 kHz - NW Cape, Australia- Scale 1:1250. In Pocket
Map 5 Ground VLF-EM Profiles - 4.8 kHz - Seattle - Scale 1:1250 ..... In Pocket

APPENDICES

Appendix 1 Geophysical Data Tables
Appendix 2 Analytical Certificates

1.0 INTRODUCTION

This report presents results of a program of geophysical surveying, geological mapping and prospecting and on the Quill Claims, 24 km South of the Eskay Creek Mine during June of 1998.

2.0 LOCATION AND ACCESS

The property is located in the Skeena Mining Division 65 kilometres northwest of Stewart in Northwestern British Columbia (figure 1) and is covered by NTS topographic sheets 104 B/7 and B/8.

The property lies on McQuillan Ridge at the junction of the Unuk and South Unuk Rivers, 24 kilometres south of the Eskay Creek Mine. Property elevations range from 3,000 to 5,600 feet above mean sea level. Slopes above the tree line (4,000 feet) are moderate and outcrop exposure is extensive where not covered by snow; areas below the tree line are steeper with less outcrop.

Access may be gained via helicopter from the Eskay Creek mine road , Kilometre-45 Camp (35 kilometres to the North), Bob Quinn Lake on Highway 37, (65 kilometres to the northeast) or from the town of Stewart (65 kilometres to the southeast).

3.0 PROPERTY

The Quill Property is comprised two claim groups covering 38 units. Claim filing information is as follows:

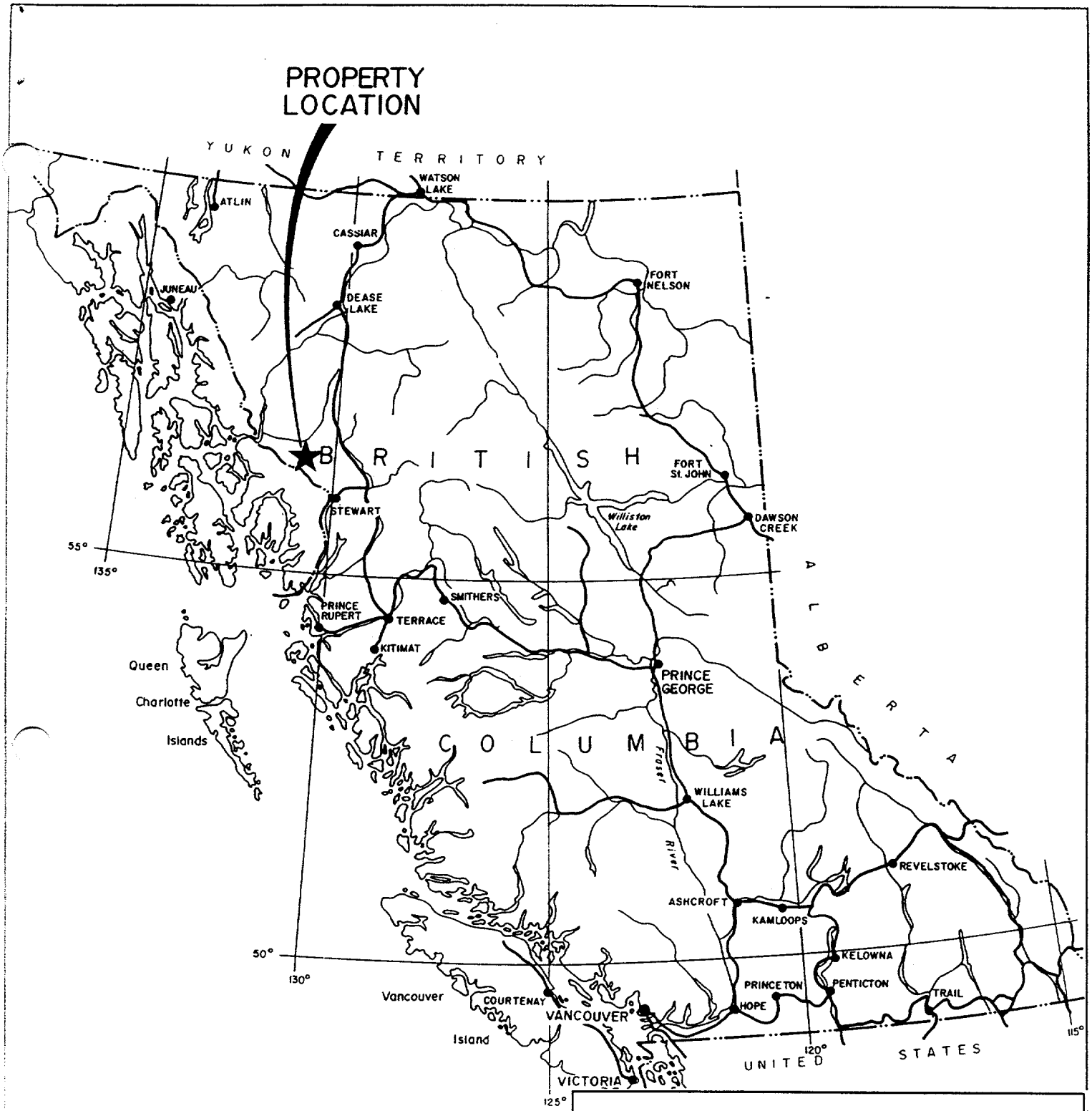
Claim Name	Tenure No.	No. of Units	Expiry Date
Quill	337650	20	July 1, 1999
M.R.	339222	18	August 19, 1999

The claim group is shown on figure 2.

4.0 PREVIOUS WORK ON THE PROPERTY

In 1981 Allen and MacQuarrie reported on Geological, Geophysical and Geochemical surveys on the South Unuk River Property.

In 1988, E.R. Kurchkowski reported on field work in the immediate vicinity of the Quill Claim Group for South Unuk Gold Corp. The work, involving geological mapping and rock and stream sediment sampling, covered all but the southern-most part of the Quill Claims. Pan concentrates taken in 1988 in sandbars on the rivers indicated gold was from distal sources. Samples from low elevations of tributary creeks in the area yielded a few anomalous gold values (80 to 120 ppb). Subsequent geological traverses identified glacial till deposits upstream of the anomalous samples thus indicating gold from these samples may have



QUILL PROPERTY

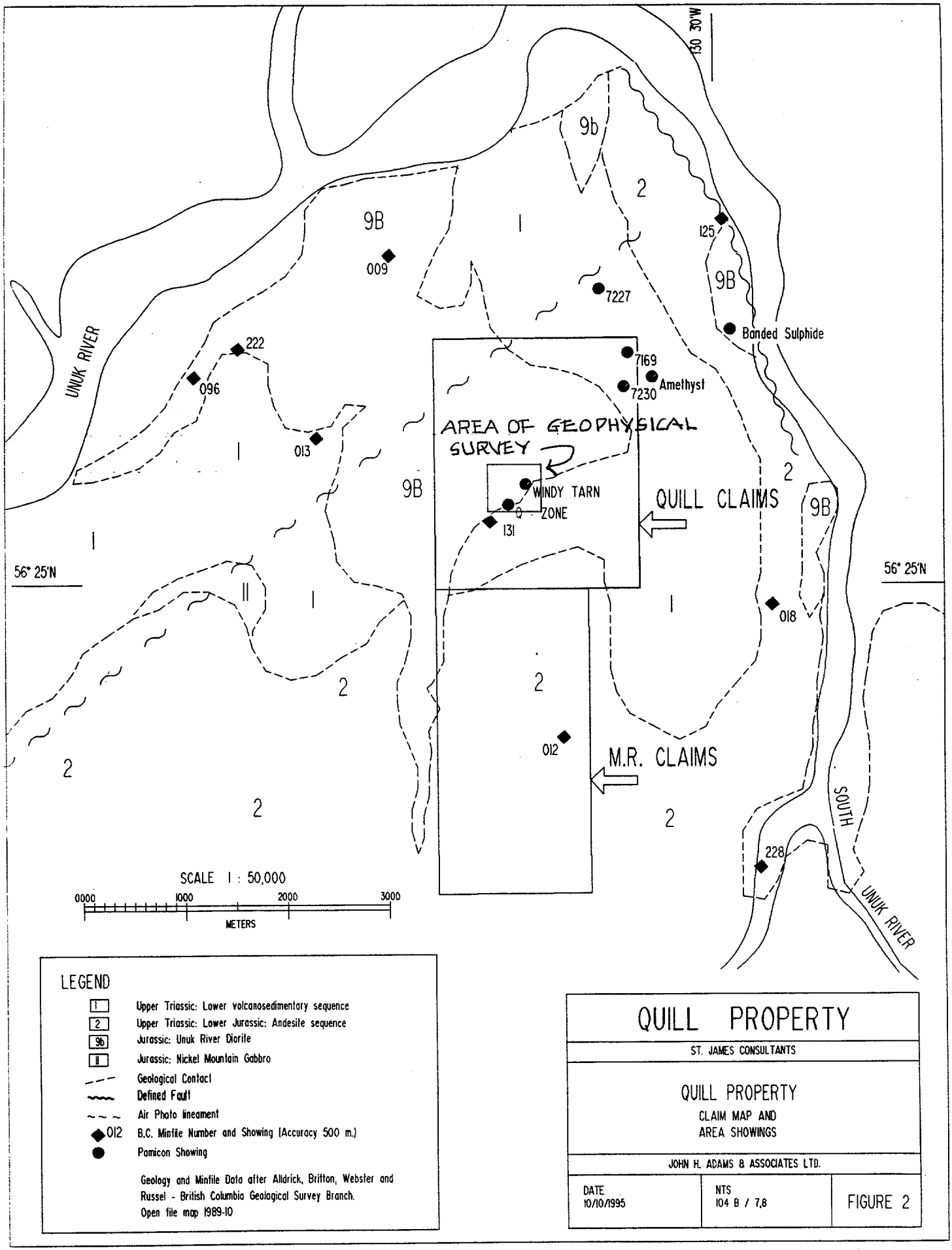
PROPERTY LOCATION MAP

SKEENA MINING DIVISION, BC

DATE	NTS	FIGURE
SEPT, 1995	104 B / 7,8	1

Km 0 100 200 300 400 Km

Miles 0 50 100 200 300 Miles



QUILL PROPERTY

ST. JAMES CONSULTANTS

QUILL PROPERTY
CLAIM MAP AND
AREA SHOWINGS

JOHN H. ADAMS & ASSOCIATES LTD.

DATE	NTS	
10/10/1995	104 B / 7,8	FIGURE 2

been from a distal source thus rendering these samples unreliable indicators of proximal gold sources. Streams were not panned at higher elevations due to the lack of sediment. A number of anomalous gold samples were taken below the Chris and Anne Showing (1200 metres to the north-northeast of the Quill claims).

In 1990, Pamicon Developments Ltd. completed follow-up rock and soil sampling programs on the South Unuk Gold Corp Property (Curtis, K.M. et al, 1991). The Golden Jade, Windy Tarn, 7169 and 7230 showings were discovered in the area now covered by the Quill claims. A total of 251 soil samples were taken mainly on the eastern part of the South Unuk Gold Corp property in the general vicinity of the Chris and Anne showing. Portions of these soil sample lines which impinged on the Quill claims are shown on Map 1(in pocket). No significant soil anomalies occurred on the Quill Claims.

In June and July 1995, A. St. James Prospected the Quill claims and located the Golden Jade Showing (Q-zone) and collected mineralized float samples from the vicinity of the 7169 and 7230 showings (St. James, A., 1995). Several mineralized or geochemically anomalous float samples from other areas of the Quill claims were also found. At the same time Adams carried out a Stream sediment and prospecting Program on the Quill Claims (Adams, J.H., 1995)..

5.0 CURRENT EXPLORATION PROGRAM

Between June 17 and 29, 1998 a program of fieldwork was completed in the vicinity of the Q-zone and Windy Tarn showings. A grid was established to cover both showings. The grid was subsequently mapped geologically and magnetic and VLF-EM surveys were carried out. Prospecting and sampling of the showings were also done.

The grid was designed to cover both the Q-zone and Windy Tarn showings. A baseline was begun at BL-00, 400E at UTM coordinates 0405396N, 6254146E. The baseline was extended to 700E at azimuth 135° (UTM coordinates 0405633N, 6253912E). Marked wire pickets were placed every 25 metres along the baseline and lines. Lines 400E, 450E, 500E, 550E and 700E were extended 850 metres at azimuth 045°. Lines 600E, 625E, 650E, 675E were extended from the baseline to 400N. Due to steepness of the terrain near the baseline, lines 525E and 575E were installed between 100N and 400N. A tie line at 400N from 550E to 250E was used to install lines 250E, 275E, 300E, 325E, 350S 375E, 425E, and 475E from 400N to 850N.

6.0 GEOLOGY

6.1 Regional Geology (after Adams, 1995)

The property is underlain by northwest trending Upper Triassic and Lower Jurassic volcanic and sedimentary rocks of the Hazelton and Stuhini groups. These are intruded by felsic to intermediate intrusives of the Coast Plutonic Complex.

The Hazelton Group is comprised of various assemblages of volcanics and sediments including siltstones, sandstones and conglomerates; felsic and intermediate volcanics and pyroclastics.

The Upper Triassic Stuhini Group is comprised of a volcano-sedimentary sequence of siltstones , shales, wackes with some limestone units and mafic to intermediate volcanics and volcaniclastics.

6.2 Property Geology (after Adams, 1995)

The contact between the Coast Plutonic intrusives and the volcano-sedimentary Stuhini Group and Hazelton Group (Unuk River Formation) rocks pass through the central part of the Quill Claim Group . Granodiorite to diorite intrusives underlie the northwestern and western portions of the Quill Claim Group. Andesite and hornfels were commonly observed near the western contact of the intrusive complex in the central portions of the claims. Conglomerate, shales and minor limestone was observed in float on the eastern portions of the claims. In the southern part of the claim group, large areas of exposed , dark-green mafic volcanics were widespread above the 5000 foot contour that defines the uppermost portion of McQuillan Ridge. Rare lamprophyre dikes were noted in hornfels near the intrusive in the central part of the claim group.

6.3 Detailed Grid Geology (current program mapping)

Geology of the grid as mapped during the current program is shown on Map 1. Mapping and prospecting were hampered during this program by the snow cover which obscured approximately 60% of the grid.

The grid is underlain by diorite and part of its metamorphic aureole. Most of the grid is underlain by intermediate intrusive of the Coast Plutonic Intrusive complex. Hornfels at the contact between the intrusive and Stuhini and Unuk River complex volcano-sedimentary rocks extends in an arc from baseline near 400E and along the southeastern boundary of the grid.

The complex intrusive is dominantly a medium to fine grained hornblende diorite to diorite. Examples of contamination of the intrusive by volcano-sedimentary host rocks range from strongly metamorphosed and metasomatized xenolithic blocks to gneissic banding and hybridized intrusive. Xenolithic blocks are fine to very fine grained dark grey green to black, generally exhibiting sharp contacts with the diorite. Disseminated pyrite is common in the xenoliths. Hybridization is likely due to complete digestion of host rocks of the aureole and xenoliths. In an area 100 metres northeast of the Q-zone boulders and in a second area northwest of the large pond near line 250E hornblende in the diorite is replaced by diopside and tremolite indicating likely contamination by limey sediments. (limestone outcrops were noted outside of the grid approximately 200 metres northeast of L700E, 850N). Occasional outcrops of hornblende porphyry were noted near the Q-zone boulders and in areas near the intrusive-host contact.

The host volcano-sedimentary rocks in the grid are all within the metamorphic aureole of the intrusive and as such represented by hornfels. Colours range from dark green-grey to black and are fine grained to very fine grained. Disseminated pyrite is common and in places comprises up to 15% of the rock. Possible relict bedding at 660E, 275N strikes at 153° azimuth with vertical dip. A small area of massive magnetite in outcrop at 650E 25N and a coincident strong magnetic signature on line 650E between 12.5N and 25N is probably due to skarn development.

A diorite dyke exposed at 250E 475N and at 265E 470N is 2 to 4 metres wide, strikes at 150° and dips vertically. A 30 cm wide diabase dyke at 305E 508N stikes at 110° and dips vertically.

Fragmented diabase dyke or xenolithic blocks occur near 450E 850N. The blocks are 1 to 2 metres wide and strike at about 110 ° and dip 85°north. The contacts with diorite are limonitic and fractured.

A prominent fault was noted at approximately 580E 800N. Where exposed high on the hillside, the fault strikes approximately 080° and dips 62° to the north. The fault zone is 2 to 3 metres wide and is complex, exhibiting shearing and intrusion by a generally undeformed, 25 cm wide aplite dyke and highly deformed quartz veins in contorted metasediments. Samples from the zone yielded no significant metal values.

7.0 GEOPHYSICS

A total of 8525 metres of ground magnetic and VLF-EM surveys were completed using a Gem Systems GSM -19 v 5.0. - (ID 000068585). The GSM - 19 is a high sensitivity Overhauser effect magnetometer/ gradiometer for hand held or base station use. It has 0.01 nT resolution and 0.2 nT absolute accuracy and is microprocessor based with data storage capability. Hand held and base station units may be synchronized and diurnal corrections made automatically. The integrated VLF instrument can simultaneously read three VLF stations and has a scan option to determine the relative strength of 15 VLF stations to help in the selection of the strongest stations.. For this survey results were downloaded to a notebook computer and stored on diskette.

Magnetic Survey

The instrument was used in base mode with the base station set at Line 475E at 475N. A datum value of 57000.00 nT was used and readings were taken at 12.5 metre intervals along lines. Map 2 (in Pocket) is a plot of corrected values. Appendix 1 contains magnetic survey data.

VLF-EM Survey

The scan option was used to select the three strongest stations. These were NW Cape, Australia at 22.3 kHz; Annapolis USA at 21.4 kHz; and Seattle, USA at 24.8 kHz. Readings were taken at 12.5 metre intervals along lines. Appendix 1 contains VLF survey data. Maps 3, 4 and 5 (in pocket) are in-phase and out-of-Phase profile maps for the three frequencies.

8.0 PROSPECTING

Prospecting of the grid was limited to the 40% of the grid not covered by snow. The Q-zone boulder field was exposed. The source of the mineralization, however, was not found. The source of the mineralized boulders in the Q-zone is likely in the snow covered up-slope area to the southeast. Results of sampling of boulders and outcrop in this area and in other areas of the grid are shown in Table 1. New mineralized boulders SJ-01, 09, confirmed the high grade nature of the Q-zone float. Sample SJ-20 from a zone of pyritized breccia of hornfels clasts in a silicified diorite matrix.

The Windy Tarn showing was found in a small outcrop at 387E 800N. The showing is exposed as a 4 to 10 cm wide quartz vein in diorite striking 079° with a vertical dip. Minor subsiduary quartz-manganese veins run perpendicularly into the host diorite and also occur parallel to the main vein.. The main vein is flanked to the north by a zone of silicified pyritized diorite. A 25 cm chip sample across the main vein yielded 960 ppb gold. A 30 cm wide zone immediately north of the vein sample which has abundant pyrite and a 2 cm quartz vein yielded 1595 ppb gold. A 1.0 metre interval of silicified pyritized diorite immediately to the north of this sample averaged 760 ppb gold. The vein was traced along strike a distance of 4 metres and disappears below cover at both ends. Additional analytical data for the showing are shown in Table 1.

TABLE 1. ROCK SAMPLE DESCRIPTIONS AND ANALYTICAL RESULTS

CERTIFICATE NUMBER	SAMPLE NUMBER	LOCATION	DESCRIPTION	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP K %	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP Sb ppm	ICP Sc ppm	ICP Sn ppm	ICP Sr ppm	ICP Ti %	ICP V ppm	ICP W ppm	ICP Y ppm	ICP Zn ppm	ICP Zr ppm	GEO Au-wet ppb
8S0036RJ	SJ-01	400m south of Q-zone - float	Altered sediment; qtz veinlets with galena, cpy and sphal.	>100.0	0.89	55	20	1.5	<5	4.89	>100	20	55	2640	4.06	0.29	1.36	620	<2	0.02	15	1100	>10000	870	8	<10	210	<0.01	38	60	8	>10000	3	65
8S0036RJ	SJ-04	L650E, 200m SE of Q-zone - outcrop	Skarn; f.g. magn./py; 90cm wide in sheared diorite	<0.2	0.55	15	20	<0.5	15	0.5	<1	204	10	2202	>15.00	0.03	0.36	275	<2	0.02	59	780	76	10	<1	<10	10	0.03	71	<10	<1	64	22	35
8S0036RJ	SJ-05	same as SJ-04 - outcrop	30 cm wide soft gossan; poss breccia frags. - outcrop	0.4	1.05	5	60	<0.5	<5	0.12	2	14	22	283	>15.00	0.1	0.69	220	<2	0.03	10	1210	100	10	2	<10	11	0.27	145	<10	<1	144	18	10
8S0036RJ	SJ-06	40m NE of Q-zone - float	Breccia with carb., py & minor cpy	0.2	1.47	5	140	<0.5	<5	5.34	<1	18	42	138	5.02	0.06	1.94	710	<2	0.05	24	1310	12	5	10	<10	75	<0.01	106	<10	7	59	4	10
8S0036RJ	SJ-07	Q-zone - shallow trench	23cm chip across weathered, lim. dyke in g.d.; strike 182; dip vert.	<0.2	2.5	5	40	0.5	<5	0.83	1	42	32	97	4.86	0.06	2.05	580	6	0.03	23	910	10	<5	14	<10	41	0.07	137	<10	11	113	7	5
8S0036RJ	SJ-08	170m from Q-zone - outcrop	quartz diorite; sheared; lim.	<0.2	1.55	<5	30	<0.5	<5	0.54	<1	23	39	43	5.97	0.09	1.77	455	4	0.05	14	1270	8	5	4	<10	25	0.16	96	<10	3	76	5	10
8S0036RJ	SJ-09	Q-zone - float	Qtz vein in g.d.; large ang. boulder; 15% cpy;py & marcasite	29.2	0.55	55	10	<0.5	<5	0.57	4	43	86	>10000	10.47	0.03	0.43	230	<2	0.02	9	940	64	5	1	<10	11	<0.01	24	<10	1	150	7	>10000
8S0036RJ	SJ-10	Q-zone - shallow trench	42cm chip across weathered,lim. dyke in g.d.; strike 182; dip vert.	<0.2	2.2	5	40	0.5	<5	1.05	<1	41	16	139	3.83	0.05	1.28	610	8	0.03	14	950	2	5	7	<10	58	0.03	84	<10	8	42	5	100
8S0036RJ	SJ-13	N. side of Windy Tarn vein - outcrop	Fractured quartz diorite; few qtz & py veinlets; across 90 cm	<0.2	1.08	<5	30	<0.5	<5	0.59	<1	7	38	164	2.66	0.07	0.93	330	22	0.05	3	1280	4	<5	2	<10	33	0.12	53	<10	3	81	4	35
8S0036RJ	SJ-14	S. side of D1; outcrop	Fractured quartz diorite; py veinlets; 80cm across strike of 120; dip 70-80 degrees	<0.2	1.06	<5	20	<0.5	<5	0.48	<1	6	17	82	2.83	0.08	0.86	310	4	0.05	2	870	6	<5	1	<10	27	0.11	53	<10	2	43	4	10
8S0036RJ	SJ-15	S. side of D2; outcrop	Quartz diorite; 5% py; broken; chip across 1m	<0.2	1.1	<5	40	<0.5	<5	0.6	<1	7	20	124	3.52	0.09	0.9	335	34	0.05	2	1330	8	<5	2	<10	46	0.2	75	<10	3	98	4	20
8S0036RJ	SJ-16	200m N. of W. Tarn	Quartz diorite; coatred with blue-grey powder (Mn?)	<0.2	3.16	5	30	<0.5	<5	1.59	<1	32	56	307	5.83	0.17	2.53	970	<2	0.07	33	1030	10	<5	4	<10	53	0.22	148	<10	7	89	8	5
8S0036RJ	SJ-17	Windy Tarn Vein; 375E 800N - outcrop	Quartz vein breccia;chlor. with 8% fresh py.; chip over 50 cm	<0.2	0.38	15	20	<0.5	<5	0.32	<1	4	159	45	1.5	0.02	0.47	385	2	0.02	8	70	6	5	<1	<10	4	0.01	11	<10	2	109	2	65
8S0036RJ	SJ-18	N. side of SJ-17 - outcrop	Quartz diorite; very pyritic; brecciated; quartz veinlets	<0.2	0.96	45	50	<0.5	<5	0.19	<1	7	36	45	5.41	0.22	0.95	310	4	0.02	4	1160	10	<5	1	<10	3	0.02	25	<10	2	19	4	265
8S0036RJ	SJ-19	S. side of SJ-17 - outcrop	Quartz, quartz diorite; brecciated; 10% py	<0.2	0.64	20	30	<0.5	<5	0.25	<1	8	98	21	4.69	0.08	0.73	595	2	0.02	10	160	8	5	<1	<10	5	0.01	17	<10	2	41	4	275
8S0036RJ	SJ-20	Q-zone; beside large blocks of min. float - outcrop	Breccia stockwork; silicified/fractured; 15% py; clasts diorite & sed/volc.; epidote	<0.2	1.17	5	30	<0.5	<5	0.79	<1	25	44	62	4.45	0.07	0.96	300	2	0.06	13	1040	12	<5	2	<10	32	0.13	52	<10	2	55	5	10
8S0036RJ	SJ-21	Ridge top; 200m S. of S. end of Quill Claims - outcrop	Volc. agglomerate; reddish purple, ab. epidote	<0.2	2.09	<5	20	<0.5	<5	1.56	<1	26	35	21	4.09	0.08	2.96	1085	<2	0.03	18	1750	4	<5	4	<10	30	0.13	96	<10	4	112	5	50
8S0036RJ	SJ-22	Ridge top; 300m N. of SJ-21	Quarz diorite; very Fe-stained & fractured; silicified; large outcrop	<0.2	1.74	<5	10	<0.5	<5	0.81	<1	23	58	218	6.67	0.05	1.36	375	<2	0.03	22	950	8	<5	3	<10	33	0.18	85	<10	5	29	6	5
8S0036RJ	AD-52	500E 375N - float	Breccia, black; silicified;cherty clasts; 6% py; resample of sample taken in 1995	<0.2	0.94	15	60	0.5	<5	0.88	<1	5	47	17	1.78	0.13	0.79	225	8	0.02	6	470	16	<5	1	<10	15	0.07	13	<10	12	111	5	5
8S0036RJ	JA-13	Windy Tarn Showing	55 cm chip sample - Northernmost of 2.55m sample across strike of quartz vein. Decomposed, friable, granodiorite	<0.2	1.21	45	50	<0.5	<5	0.19	<1	11	38	92	4.66	0.18	1.17	735	66	0.03	3	820	8	<5	2	<10	8	0.08	49	<10	5	34	4	865
8S0036RJ	JA-14	Windy Tarn Showing	45 cm chip sample - immed. south of JA -13. Fine grained granodiorite; silicified, with abundant pyrite; cut by at least one 2 cm quartz manganese vein parallel to main vein	<0.2	1.08	30	60	<0.5	<5	0.15	<1	11	31	65	5.85	0.22	1.02	675	18	0.02	4	1100	10	<5	2	<10	3	0.09	35	<10	4	67	5	635
8S0036RJ	JA-15	Windy Tarn Showing	30 cm chip sample - immed. south of JA - 14. Very fine grained, silicified granodiorite; possible 2 cm wide quartz vein perp. to main vein.	<0.2	1.1	50	60	<0.5	<5	0.25	<1	11	39	47	5.04	0.26	1.02	540	14	0.03	6	1220	6	5	2	<10	3	0.07	30	<10	5	24	5	1595
8S0036RJ	JA-16	Windy Tarn Showing	25 cm chip sample - immed. south of JA- 15. Silicified granodiorite and 10 cm wide main Windy Tarn vein.	<0.2	0.71	20	40	<0.5	<5	0.61	<1	8	106	27	4.7	0.15	0.7	495	2	0.03	8	460	6	<5	1	<10	11	0.02	19	<10	3	19	4	960

TABLE 1. ROCK SAMPLE DESCRIPTIONS AND ANALYTICAL RESULTS

CERTIFICATE NUMBER	SAMPLE NUMBER	LOCATION	DESCRIPTION	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP K %	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP Sb ppm	ICP Sc ppm	ICP Sn ppm	ICP Sr ppm	ICP Ti %	ICP V ppm	ICP W ppm	ICP Y ppm	ICP Zn ppm	ICP Zr ppm	GEO Au-wet ppb
8S0036RJ	JA-17	Windy Tarn Showing	1.00 m chip sample - immed. south of JA- 16. Decomposed granodiorite.	<0.2	1.67	<5	40	<0.5	<5	0.58	<1	11	35	69	3.17	0.07	1.56	645	4	0.04	4	930	2	<5	3	<10	39	0.13	74	<10	4	62	5	40
8S0036RJ	JA-18	Major fault/shear zone at 580E 800N. Strike approx. 080 az.; dip 62 N. Zone contains quartz veins, Mn, and aplite dyke	25cm chip across aplite dyke in shear zone	<0.2	0.46	<5	720	1	<5	0.09	1	1	88	31	1.18	0.06	0.11	360	<2	0.12	6	40	12	<5	<1	<10	21	<0.01	2	<10	9	177	124	10
8S0036RJ	JA-19	Quartz vein in same fault zone	30 cm wide quartz vein with ab. Mn	<0.2	1.48	<5	10	<0.5	<5	6.38	<1	3	113	7	2.28	0.03	1.56	925	2	0.02	21	310	<2	<5	2	<10	95	<0.01	46	<10	1	45	2	5
8S0036RJ	JA-20	Quartz vein in same fault zone	Quartz vein	0.2	0.19	30	20	0.5	<5	5.14	<1	4	173	47	1.57	0.06	0.47	975	2	0.02	21	210	64	5	2	<10	101	<0.01	8	<10	2	132	2	5
8S0036RJ	JA-21	Quartz vein in same fault zone	Quartz vein	<0.2	0.33	<5	10	<0.5	<5	0.04	<1	2	200	8	0.74	0.02	0.31	270	2	0.02	11	80	<2	<5	<1	<10	1	<0.01	10	<10	1	16	1	10
8S0036RJ	JA-22	Float at 525E 800N	Quartz-carb-pyrite vein material	<0.2	1.75	5	30	<0.5	<5	1.97	<1	11	142	73	3.51	0.1	1.67	680	<2	0.02	40	1320	2	5	3	<10	27	<0.01	50	<10	2	61	3	5
8S0036RJ	JA-23	Outcrop at 445E 717N	Black siliceous vein at contact between granodiorite and xenolith	<0.2	2.32	<5	180	1	<5	2.01	<1	15	68	92	4.24	0.11	2.34	3300	<2	0.02	36	1000	<2	5	4	<10	42	<0.01	54	<10	8	208	6	5
8S0036RJ	JA-24	Outcrop at 275E 465N	Feldspar porphyry dyke in granodiorite	<0.2	1.33	<5	30	<0.5	<5	1.72	<1	11	47	24	2.29	0.04	1.05	510	2	0.05	4	1190	<2	<5	2	<10	48	0.13	53	<10	5	47	5	5

ASSESSMENT REPORT FILING

QUILL PROPERTY EXPENSES : 1998 *

Date	Company	Item	Rate	No. units	Sub-total	GST	PST	TOTAL
Jul-08	Terraplus Inc.	geophy.equip.rental	$95/day	17+insur.	2,815.14	197.06	202.64	3,214.84
Jul.-20	Min-En Labs	geochem.analysis			747.55	52.33		799.88
Aug-29	Homestake**	geologist(M.Vaskovic)	$338/d.	1	338.00			338.00
Aug-29	Homestake**	geol. (C.Huggins)	263.00	1	263.00			263.00
Aug-29	Homestake**	prospector(R.Anders.)	263.00	1	263.00			263.00
Aug-29	Homestake**	food/accom.						150.00
Aug-29	Homestake**	helicopter	696.72	0.9hr.	627.05			627.05
Aug.29	Laboratory	geochem.analysis						345.98
Aug.29	Trucking Co.	shipping samples						50.00
Nov-25	J.Adams	data analy.,report prep.	300/day	8	2,400.00			2,400.00
							TOTAL=	$8,451.75

* For assessment purposes these are the expenses incurred after July 1(anniversary date) during the geophysical & geological surveys that were carried out on the property during 1998. In addition, approximately $14,000 was spent previous to July 1 in 1998 during this program.

** All Homestake costs incurred during their property examination.

CERTIFICATE

This is to certify that:

I have been a resident of Kemptville, province of Ontario since 1971 and have been a consulting and contracting geologist since 1979.

I am a graduate of Carleton University (B.Sc. 1971) in Geology.

I am a fellow of the Geological Association of Canada (1982); a member of the Association of Exploration Geochemists (1984); and a member of the Canadian Institute of Mining and Metallurgy (1981).

I have worked intermittently in British Columbia since 1969 and spent 16 days working on the Quill Property.

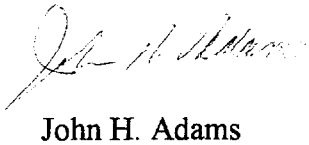
I have been trained in the use and operation the GSM-19 combined magnetometer and VLF-EM instrument.

This report is based on the author's 26 years experience in exploration, on a comprehensive study of assessment records and on geological maps and reports published for the area of interest by the British Columbia Department of Mines and Petroleum Resources and the Geological Survey of Canada.

I do have an interest in the Quill Property.

I have disclosed in this report all relevant technical material which, to the best of my knowledge, might have a bearing on the viability of the project.

November 25, 1998



John H. Adams
Geologist
Kemptville, Ontario

APPENDIX 1

Geophysical Data Tables

Gem Syst	ems GSM	-19 v5.0 15	IX 97 ID 0	00068585 fi	le	03quil3	.mv3	27 VI	98									
QUILL PROPERTY GEOPHYSICAL SURVEY DATA GSM-19 JUNE 1998																		
TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
95126	00250E	00450.00N	57214.93	57800.13	99	0000N	24.8	11.4	-5.9	23	3	11.78	22.3	44.4	6.4	9	2	5.33
95218	00250E	00462.50N	57163.47	57748.83	99	0000N	24.8	8.7	-4.8	47	9	11.85	22.3	43.9	7.3	20	3	5.83
95302	00250E	00475.00N	57256.55	57841.97	99	0000N	24.8	6.4	-4.1	93	10	11.56	22.3	40.3	9.1	44	7	6.2
95334	00250E	00487.50N	57171.8	57757.3	99	0000N	24.8	5.3	-4.1	46	8	11.53	22.3	41.7	9.5	96	16	6.67
95406	00250E	00500.00N	57164.91	57750.16	99	0000N	24.8	4.3	-3.8	90	12	11.2	22.3	45.7	10.1	44	7	6.16
95434	00250E	00512.50N	57194.51	57779.61	99	0000N	24.8	3.2	-4.6	94	5	11.67	22.3	41.8	11.8	78	12	5.44
95518	00250E	00525.00N	57207.33	57792.25	99	0000N	24.8	1.8	-4.3	47	-2	11.67	22.3	40.8	10.1	78	13	5.44
95610	00250E	00537.50N	57196.68	57781.57	99	0000N	24.8	-0.8	-5.2	93	13	11.62	22.3	48.1	9.4	87	14	6.08
95638	00250E	00550.00N	57090.47	57675.19	99	0000N	24.8	-1.6	-5.9	46	9	11.64	22.3	46.4	10.6	84	14	5.86
95710	00250E	00562.50N	57094.98	57679.48	99	0000N	24.8	-2	-5.8	91	14	11.42	22.3	40.9	10.1	78	15	5.49
95738	00250E	00575.00N	57089.1	57673.44	99	0000N	24.8	-3.8	-6.7	48	6	11.92	22.3	41.7	10.6	83	13	5.76
95806	00250E	00587.50N	57095.02	57679.21	99	0000N	24.8	-4.5	-6.5	90	13	11.31	22.3	37.8	10.1	79	16	5.52
95846	00250E	00600.00N	57065.66	57649.72	99	0000N	24.8	-6.9	-6.9	46	11	11.75	22.3	41.5	9	84	19	5.9
95946	00250E	00612.50N	57148.68	57732.46	99	0000N	24.8	-4.3	-5.7	85	37	11.54	22.3	50.8	9.6	88	16	6.17
100046	00250E	00625.00N	57216.64	57800.42	99	0000N	24.8	-5.2	-5.3	94	10	11.66	22.3	49.4	8.9	83	17	5.83
100134	00250E	00637.50N	57163.84	57747.51	99	0000N	24.8	-6.3	-4.9	48	7	12.02	22.3	43.5	9.2	80	12	5.57
100202	00250E	00650.00N	57297.13	57880.76	99	0000N	24.8	-5.8	-4.6	93	10	11.62	22.3	41.6	9.4	83	14	5.76
100242	00250E	00662.50N	57197.29	57780.87	99	0000N	24.8	-8.9	-3.8	50	9	12.56	22.3	43.5	9	89	12	6.2
100318	00250E	00675.00N	57214.05	57797.61	99	0000N	24.8	-8	-3.3	50	-1	12.31	22.3	41.9	9.4	93	12	6.43
100430	00250E	00687.50N	57287.12	57870.61	99	0000N	24.8	-11.6	-2.8	97	-1	11.98	22.3	47.2	7.9	44	7	6.14
100502	00250E	00700.00N	57384.19	57967.59	99	0000N	24.8	-8.6	-2.6	49	6	12.16	22.3	45.8	7.3	98	15	6.84
100610	00250E	00712.50N	57673.02	58256.04	99	0000N	24.8	-10.8	-2	91	27	11.78	22.3	49.6	7.3	48	8	6.68
100642	00250E	00725.00N	57402.25	57985.14	99	0000N	24.8	-9.5	-4	46	21	12.51	22.3	48.6	6.3	108	14	7.46
100714	00250E	00737.50N	57531.78	58114.68	99	0000N	24.8	-10.8	-3.8	97	28	12.51	22.3	46.5	6.4	58	8	6.03
100742	00250E	00750.00N	57239.17	57822.07	99	0000N	24.8	-9.9	-4.2	51	18	13.36	22.3	53.5	5.4	61	11	8.52
100810	00250E	00762.50N	57098.72	57681.59	99	0000N	24.8	-7.7	-2.2	54	12	13.65	22.3	52.2	5.5	62	14	8.7
100846	00250E	00775.00N	57053.19	57635.97	99	0000N	24.8	-8.8	1.6	58	2	14.47	22.3	59.2	6.9	59	16	8.49
100918	00250E	00787.50N	57078.79	57661.58	99	0000N	24.8	0.5	3	50	14	12.95	22.3	58.3	5.1	65	15	9.15
100946	00250E	00800.00N	57112.58	57695.4	99	0000N	24.8	2.2	3.5	48	16	12.58	22.3	57.4	3.9	62	17	8.82
101018	00250E	00812.50N	57136.73	57719.49	99	0000N	24.8	0.4	4.5	100	31	12.98	22.3	55.2	7.1	63	17	9
101046	00250E	00825.00N	57195.26	57777.97	99	0000N	24.8	2.3	4.1	47	20	12.62	22.3	56.7	5.7	64	19	9.27
101126	00250E	00837.50N	57221.19	57803.99	99	0000N	24.8	0.5	4.2	96	33	12.63	22.3	57.6	6.2	62	17	8.81
101154	00250E	00850.00N	57317.1	57899.95	99	0000N	24.8	-0.1	3.6	54	12	13.67	22.3	57	5.7	66	18	9.46
101314	00275E	00850.00N	57147.86	57730.72	99	0000N	24.8	-7.3	12.7	50	14	12.85	22.3	-51.8	-5.4	60	16	8.62
101354	00275E	00837.50N	57177.27	57760.11	99	0000N	24.8	-7.7	12.4	51	13	13.19	22.3	-51.4	-4.7	61	16	8.69
101422	00275E	00825.00N	57268.67	57851.49	99	0000N	24.8	-4.7	11.2	51	12	12.98	22.3	-52.9	-4.8	65	17	9.23
101514	00275E	00812.50N	57119.18	57701.97	99	0000N	24.8	-6.9	12.8	50	16	13.07	22.3	-51.7	-4.7	67	19	9.52
101542	00275E	00800.00N	57133.54	57716.32	99	0000N	24.8	-3.6	12.3	53	7	13.22	22.3	-53.5	-5.1	66	18	9.43
101626	00275E	00787.50N	57093.24	57676.11	99	0000N	24.8	-6.2	12.4	51	15	13.16	22.3	-52.2	-4.4	65	17	9.33
101654	00275E	00775.00N	57035	57617.8	99	0000N	24.8	-6.6	11.1	53	15	13.79	22.3	-54.3	-4.6	64	18	9.22
101726	00275E	00762.50N	57013.65	57596.42	99	0000N	24.8	-6.2	8.7	52	15	13.45	22.3	-56.6	-4.2	70	20	10.02
101754	00275E	00750.00N	57082.83	57665.63	99	0000N	24.8	-14.4	7	49	20	13.02	22.3	-57.7	-4.5	71	21	10.22
101830	00275E	00737.50N	57142.82	57725.62	99	0000N	24.8	-16.9	5.2	102	23	12.95	22.3	-56.6	-5.3	71	19	10.06
101910	00275E	00725.00N	57164.95	57747.73	99	0000N	24.8	-17.5	4.2	51	9	12.96	22.3	-60.1	-4.3	70	17	9.94
102002	00275E	00712.50N	57109.19	57692.09	99	0000N	24.8	-18.1	5.9	50	14	12.95	22.3	-65	-5.7	71	11	9.86
102058	00275E	00700.00N	57101.42	57684.4	99	0000N	24.8	-19.8	4.1	50	4	12.48	22.3	-49.6	-4.3	70	21	10.06
102154	00275E	00687.50N	57074.53	57657.6	99	0000N	24.8	-14.5	2.7	46	17	12.1	22.3	-47.8	-4.8	72	28	10.6
102250	00275E	00675.00N	57008.05	57591.29	99	0000N	24.8	-21.1	3.1	92	34	12.16	22.3	-49	-3.9	72	22	10.36
102346	00275E	00662.50N	57044.02	57627.29	99	0000N	24.8	-15.4	3.1	45	18	12.04	22.3	-53.8	-3.4	76	21	10.86
102430	00275E	00650.00N	57037.15	57620.55	99	0000N	24.8	-14.4	3.1	95	21	11.98	22.3	-58	-3.1	72	20	10.34
102518	00275E	00637.50N	57046.81	57630.43	99	0000N	24.8	-19.5	5.5	46	12	11.84	22.3	-44	-6.1	75	18	10.58
102602	00275E	00625.00N	57051.2	57634.94	99	0000N	24.8	-13.1	3.3	97	12	12.03	22.3	-53.8	-5.2	77	16	10.86
102642	00275E	00612.50N	57085.87	57669.72	99	0000N	24.8	-16.1	4.4	43	17	11.53	22.3	-53	-3.9	75	19	10.59
102706	00275E	00600.00N	57156.56	57740.48	99	0000N	24.8	-14.5	3.6	87	30	11.36	22.3	-54.2	-2.1	77	19	10.98
102730	00275E	00587.50N	57206.11	57790.17	99	0000N	24.8	-12.6	3.1	91	14	11.36	22.3	-52.6	-2.9	75	18	10.59
102802	00275E	00575.00N	57119.94	57704.13	99	0000N	24.8	-13.3	3.7	44	15	11.61	22.3	-52.9	-2.3	77	21	10.95
102842	00275E	00562.50N	57096.17	57680.43	99	0000N	24.8	-9.5	3.5	91	17	11.48	22.3	-54.6	-3	74	20	10.56
102918	00275E	00550.00N	57090.56	57674.93	99	0000N	24.8	-5.1	2.9	44	9	11.28	22.3	-61.3	-3.5	74	22	10.61
102954	00275E	00537.50N	57123.86	57708.44	99	0000N	24.8	-7.3	3.2	91	18	11.51	22.3	-56.6	-0.9	76	18	10.81
103030	00275E	00525.00N	57262.13	57846.81	99	0000N	24.8	-4.6	5.3	46	5	11.39	22.3	-56.3	-3.7	77	16	10.81
103114	00275E	00512.50N	57116.86	57701.69	99	0000N	24.8	-5.7	5.5	89	17	11.25	22.3	-53.9	-2.6	77	18	10.86
103154	00275E	00500.00N	57113.37	57698.33	99	0000N	24.8	-1.7	4.4	93	8	11.57	22.3	-55.2	-2.9	75	18	10.69
103306	00275E	00487.50N	57122.15	57707.32	99	0000N	24.8	-2.2	5.8	46	-1	11.48	22.3	-49.5	-1.9	77	18	10.86
103438	00275E	00475.00N	57166.6	57752.13	99	0000N	24.8	-0.4	4.2	94	6	11.68	22.3	-57.1	-4.8	75	17	10.65
103546	00275E	00462.50N	57341.88	57927.69	99	0000N	24.8	0.3	4	44	10	11.3	22.3	-57.1	-2.8	76	22	10.87
103718	00275E	00450.00N	57165.11	57751.3	99	0000N	24.8	5.8	3.6	96	7	11.94	22.3	-56.9	-3.9	81	19	11.41
103922	00300E	00450.00N	57171.36	57758.11	99	0000N	24.8	9.2	-4.6	43	15	11.41	22.3	53.5	-0.7	76	23	10.98
104006	00300E	00462.50N	57134.5	57721.42	99	0000N	24.8	7	-1.3	86	20	10.96	22.3	54.1	1.8	77	24	11.06
104038	00300E	00475.00N	57120.4	57707.37	99	0000N	24.8	7.1	-3.3	90	20	11.43	22.3	52	0	78	23	11.25
104210	00300E	00487.50N	57161.95	57749.26	99	0000N	24.8	4.7	-4.3	44	15	11.61	22.3	54.5	-1.2	79	19	11.16
104306	00300E	00500.00N	57281.8	57869.17	99	0000N	24.8	-1.2	-2.6	89	18	11.28	22.3	66	0	75	19	10.69
104354	00300E	00512.50N	57161.59	57749.11	99	0000N	24.8	2.3	-3.1	89	21	11.38	22.3	55.3	1.8	76	23	10.91

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
104426	00300E	00525.00N	57159.27	57747.08	99	0000N	24.8	1.2	-2.8	85	31	11.19	22.3	58.5	-3.9	74	17	10.43
104502	00300E	00537.50N	57131.54	57719.56	99	0000N	24.8	0.2	-2	91	17	11.44	22.3	51.9	-5.2	69	14	9.74
104538	00300E	00550.00N	57115.57	57703.55	99	0000N	24.8	0.5	-2.3	45	10	11.36	22.3	51.1	1.3	71	16	9.96
104930	00300E	00562.50N	57121.65	57710.72	99	0000N	24.8	-0.9	-2.9	94	7	11.69	22.3	56.3	-0.9	79	16	11.11
105010	00300E	00575.00N	57252.95	57842.37	99	0000N	24.8	2.5	-3.5	44	16	11.68	22.3	57.6	-1.7	73	18	10.33
105046	00300E	00587.50N	57205.16	57794.44	99	0000N	24.8	0.7	-3.1	93	25	11.96	22.3	55.9	-6.2	63	16	9.02
105118	00300E	00600.00N	57214.45	57803.58	99	0000N	24.8	0	-5.1	45	14	11.7	22.3	58.3	-0.1	66	17	9.41
105230	00300E	00612.50N	57201.86	57790.89	99	0000N	24.8	-4.7	-4.3	92	19	11.65	22.3	59.2	-0.1	66	16	9.41
105306	00300E	00625.00N	57199.06	57787.89	99	0000N	24.8	-3.8	-5.9	46	14	12.01	22.3	53.1	-2.1	69	16	9.7
105554	00325E	00600.00N	57315.42	57904.36	99	0000N	24.8	-11.5	4	93	8	11.51	22.3	-45	-1.5	69	16	9.75
105630	00325E	00587.50N	57409.82	57998.32	99	0000N	24.8	-9.4	5.5	45	10	11.44	22.3	-53.4	-2	60	13	8.43
105714	00325E	00575.00N	57395.44	57983.7	99	0000N	24.8	-6.9	6.8	93	13	11.62	22.3	-44.8	-1.6	61	8	8.51
105802	00325E	00562.50N	57184.31	57773.06	99	0000N	24.8	-6.7	9.7	47	15	12.19	22.3	-52.2	2	64	12	8.98
110458	00325E	00475.00N	57123.58	57712.82	99	0000N	24.8	-1.4	1	94	0	11.56	22.3	-47.3	-0.6	63	12	8.83
110546	00325E	00462.50N	57123.65	57713.09	99	0000N	24.8	0.1	3.1	47	2	11.72	22.3	-57.6	0	65	16	9.25
110618	00325E	00450.00N	57103.74	57693.25	99	0000N	24.8	0.8	3	96	8	11.86	22.3	-57.3	1	64	16	9.08
110742	00350E	00450.00N	57119.24	57708.44	99	0000N	24.8	6.6	-5.3	46	6	11.62	22.3	56.4	-1.9	64	16	9.08
110818	00350E	00462.50N	57089.93	57678.95	99	0000N	24.8	1.8	-6.1	93	9	11.6	22.3	61.2	-2.3	62	15	8.8
110854	00350E	00475.00N	57145.51	57734.33	99	0000N	24.8	1.1	-9.5	47	10	11.99	22.3	60.7	-0.6	64	14	8.98
111354	00375E	00450.00N	57150.06	57738.07	99	0000N	24.8	-3	4.1	92	7	11.41	22.3	-53	0.4	72	12	10
111638	00375E	00462.50N	57125.35	57713.6	99	0000N	24.8	5.4	-5.9	94	16	11.85	22.3	57	-5.2	72	17	10.16
111718	00375E	00475.00N	57162.61	57751.07	99	0000N	24.8	-1.4	-6.9	49	3	12.13	22.3	63.8	-0.8	66	12	9.2
111814	00375E	00487.50N	57125.92	57714.4	99	0000N	24.8	-0.9	-6.7	96	7	11.9	22.3	59.6	-1.1	62	14	8.74
111902	00375E	00500.00N	57118.29	57706.77	99	0000N	24.8	3.3	-6.7	48	11	12.18	22.3	49.4	2.3	63	16	8.98
112418	00375E	00600.00N	57182.37	57771.77	99	0000N	24.8	2.1	0	91	22	11.63	22.3	50.1	2	63	14	8.86
112450	00375E	00612.50N	57306.41	57895.95	99	0000N	24.8	-1.1	-2.3	49	4	12.22	22.3	41.1	2.3	81	13	11.35
112518	00375E	00625.00N	57273.66	57863.27	99	0000N	24.8	-1.1	-2.4	96	18	12.05	22.3	39.5	1.5	80	14	11.15
112602	00375E	00637.50N	57378.3	57967.87	99	0000N	24.8	-2.5	-3	51	5	12.76	22.3	41.4	2.4	82	14	11.41
112638	00375E	00650.00N	57150.28	57739.92	99	0000N	24.8	-2.3	-3.4	51	7	12.73	22.3	41.5	1.9	61	9	8.52
112714	00375E	00662.50N	57233.23	57822.92	99	0000N	24.8	-3.7	-2.3	53	2	13.21	22.3	40.1	1.3	70	10	9.7
112746	00375E	00675.00N	57161.4	57751.13	99	0000N	24.8	-3.1	-2	50	9	12.7	22.3	52	2.5	58	13	8.25
112814	00375E	00687.50N	57276.08	57865.76	99	0000N	24.8	-3.6	-1.7	50	10	12.58	22.3	42.3	0.9	55	11	7.79
112850	00375E	00700.00N	57227.64	57817.24	99	0000N	24.8	-1	-1.3	98	31	12.73	22.3	43.9	2.6	58	11	8.17
112938	00375E	00712.50N	57365.75	57955.27	99	0000N	24.8	-0.7	-0.5	54	9	13.51	22.3	51.6	1.9	56	13	7.97
113018	00375E	00725.00N	57363.06	57952.68	99	0000N	24.8	1.6	-0.7	51	12	12.91	22.3	44.3	3	53	11	7.49
113050	00375E	00737.50N	57338.4	57928.15	99	0000N	24.8	0.1	-0.1	52	9	13.21	22.3	45	0.1	52	9	7.27
113134	00375E	00750.00N	57133.95	57723.65	99	0000N	24.8	0.1	-1.1	52	10	13.19	22.3	58.5	3.4	55	13	7.77
113218	00375E	00762.50N	57178.19	57767.93	99	0000N	24.8	2.6	-0.6	52	9	13.07	22.3	48.7	1	56	11	7.82
113250	00375E	00775.00N	57125.94	57715.72	99	0000N	24.8	6.9	-0.8	52	14	13.45	22.3	45.1	0	55	9	7.73
113322	00375E	00787.50N	57099.41	57689.27	99	0000N	24.8	5.1	-0.7	55	6	13.65	22.3	45.3	6	55	11	7.73
113402	00375E	00800.00N	57089.19	57679.1	99	0000N	24.8	7.2	-1.4	52	11	13.13	22.3	47	2.8	55	10	7.76
113450	00375E	00812.50N	57171.7	57761.64	99	0000N	24.8	4	-2.2	53	7	13.21	22.3	52.5	4.1	54	12	7.61
113522	00375E	00825.00N	57190.47	57780.33	99	0000N	24.8	5.4	-3.1	53	4	13.19	22.3	46.7	3.3	56	9	7.83
113706	00375E	00837.50N	57185.1	57774.99	99	0000N	24.8	7.1	-4	51	11	12.98	22.3	54.5	0.3	57	13	8.12
113738	00375E	00850.00N	57165.11	57754.97	99	0000N	24.8	7.1	-4.6	50	17	13.08	22.3	57.3	-1.2	56	14	8.01
113938	00350E	00850.00N	57164.72	57754.46	99	0000N	24.8	1.8	4.7	53	-13	13.67	22.3	-50.4	0	54	13	7.73
114026	00350E	00837.50N	57193.58	57783.14	99	0000N	24.8	-0.4	5.1	54	8	13.53	22.3	-57.8	1.3	55	15	7.92
114058	00350E	00825.00N	57119.35	57708.75	99	0000N	24.8	-2.9	5.5	53	1	13.16	22.3	-56.6	2	56	16	8.05
114150	00350E	00812.50N	57105.33	57694.58	99	0000N	24.8	-4.1	5.6	51	13	13.07	22.3	-54.2	-2	59	18	8.5
114222	00350E	00800.00N	57088.85	57678.22	99	0000N	24.8	-3.6	5.3	54	11	13.82	22.3	-56.7	-2.1	55	18	8.03
114302	00350E	00787.50N	57028.88	57618.34	99	0000N	24.8	-5.1	5.9	53	9	13.25	22.3	-58.7	-2.4	57	17	8.2
114342	00350E	00775.00N	57174.76	57764.1	99	0000N	24.8	-8.1	7.4	52	9	13.18	22.3	-55.9	3.7	58	11	8.09
114426	00350E	00762.50N	57201.38	57790.64	99	0000N	24.8	-7.7	6.5	51	12	13.05	22.3	-55.3	-0.1	57	16	8.24
114502	00350E	00750.00N	57262.64	57851.94	99	0000N	24.8	-7.7	6.8	50	13	12.95	22.3	-55.9	-0.4	57	16	8.15
114554	00350E	00737.50N	57445.95	58035.14	99	0000N	24.8	-8.6	7.3	49	14	12.59	22.3	-53.4	2.8	59	13	8.35
114626	00350E	00725.00N	57285.68	57874.78	99	0000N	24.8	-4.4	5.6	105	19	13.15	22.3	-61.1	-3.4	57	16	8.16
114702	00350E	00712.50N	57190.84	57779.92	99	0000N	24.8	-4.7	6.8	50	13	12.88	22.3	-62	-0.3	56	13	7.97
114742	00350E	00700.00N	57211.55	57800.74	99	0000N	24.8	-6.3	6.2	50	17	13.01	22.3	-60.7	1.5	57	14	8.15
114846	00350E	00687.50N	57234.56	57823.75	99	0000N	24.8	-11.9	5.8	97	29	12.48	22.3	-57.3	1.3	58	16	8.3
114914	00350E	00675.00N	57326.96	57916.22	99	0000N	24.8	-11.2	6.7	49	10	12.42	22.3	-59	3.9	57	13	8.12
114954	00350E	00662.50N	57205.15	57794.59	99	0000N	24.8	-8.3	5.6	96	14	11.96	22.3	-61.1	0.9	57	14	8.06
115054	00350E	00650.00N	57179.8	57769.39	99	0000N	24.8	-10	7.8	44	21	12.18	22.3	-49.2	-4.7	61	20	8.86
115358	00325E	00675.00N	57055.16	57644.42	99	0000N	24.8	-2.8	0.1	97	-30	12.54	22.3	45.2	4.7	57	25	8.6
115458	00325E	00687.50N	57067.59	57656.73	99	0000N	24.8	-3.4	-3	51	2	12.73	22.3	52.4	4	58	18	8.46
115530	00325E	00700.00N	57153.24	57742.3	99	0000N	24.8	-2.3	-3.1	50	9	12.55	22.3	58.4	2.6	59	17	8.51
115606	00325E	00712.50N	57204.91	57794.09	99	0000N	24.8	-0.3	-0.8	54	2	13.33	22.3	54.4	2.2	56	13	7.93
115646	00325E	00725.00N	57292.16	57881.31	99	0000N	24.8	2.5	-1	51	10	12.88	22.3	55.8	-3.5	59	12	8.3
115730	00325E	00737.50N	57273.21	57862.17	99	0000N	24.8	-0.6	-0.1	52	2	13.02	22.3	58.3	0.3	59	14	8.42
115810	00325E	00750.00N	57167.48	57756.33	99	0000N	24.8	2	-1.1	52	12	13.25	22.3	57.5	0.6	59	12	8.29
115918	00325E	00762.50N	57171.39	57760.28	99	0000N	24.8	1.1	-1.1	50	6	12.56	22.3	56.8	0	56	15	8.01
115950	00325E	00775.00N	57147.57	57736.58	99	0000N	24.8	0.9	-0.5	53	5	13.21	22.3	57.9	-2.3	56	13	7.93
120030	00325E	00787.50N	57127.14	57716.19	99	0000N	24.8	-0.7	-1.6	54	4	13.44	22.3	64.9	0.9	57	12	8
120102	00325E	00800.00N	57205.85	57794.9	99	0000N	24.8	2.7	-1	49	14	12.68	22.3	56.9	-1.1	57	14	8.06
120142	00325E	00812.50N	57121.64	57710.74	99	0000N	24.8	1.9	-0.5	106	15	13.18	22.3	58.8	0	55	14	7.85
120218	00325E	00825.00N	57088.72	57677.98	99	0000N	24.8	4	-1	51	9	12.96	22.3	57.2	-2.3	52	13	7.4

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
120254	00325E	00837.50N	57103.8	57693.17	99	0000N	24.8	2.7	-0.2	52	16	13.64	22.3	57.6	-0.5	50	13	7.13
120322	00325E	00850.00N	57115.66	57705.02	99	0000N	24.8	2.6	-0.9	54	9	13.65	22.3	63.8	-3.9	50	11	7.08
120702	00300E	00850.00N	57106.81	57696.42	99	0000N	24.8	-2.1	7.4	53	-1	13.25	22.3	-42.9	0.1	49	11	6.92
120742	00300E	00837.50N	57162.17	57751.82	99	0000N	24.8	1	6.9	52	4	13.04	22.3	-50.9	0.7	91	16	6.34
120810	00300E	00825.00N	57140.37	57730.07	99	0000N	24.8	-1.3	8.1	54	3	13.36	22.3	-49.4	1.3	46	8	6.42
120842	00300E	00812.50N	57062.45	57652.15	99	0000N	24.8	-4.1	8.7	52	7	13.13	22.3	-48.6	3.1	85	13	5.9
120922	00300E	00800.00N	57111.12	57700.64	99	0000N	24.8	-3	8.9	51	12	13.11	22.3	-52.3	1.6	88	14	6.1
121002	00300E	00787.50N	57029.03	57618.53	99	0000N	24.8	-1.5	8.9	54	8	13.5	22.3	-50.4	0.6	86	16	6.01
121030	00300E	00775.00N	57031.25	57620.85	99	0000N	24.8	-3	8.5	54	7	13.41	22.3	-50.6	1.9	79	13	5.52
121222	00300E	00762.50N	57054.06	57643.86	99	0000N	24.8	-2.7	5.9	52	3	12.84	22.3	-54.6	2.8	90	25	6.44
121322	00300E	00750.00N	57086.09	57676.04	99	0000N	24.8	-6	7.1	52	3	13.01	22.3	-54	8	41	9	5.83
121402	00300E	00737.50N	57149.01	57738.92	99	0000N	24.8	-1.5	6.8	54	1	13.31	22.3	-59.3	2.1	79	19	5.57
121438	00300E	00725.00N	57169.68	57759.6	99	0000N	24.8	-3.7	6.9	51	9	12.76	22.3	-57.9	2.5	80	20	5.68
121654	00300E	00712.50N	57334.17	57924.64	99	0000N	24.8	-0.4	-10.1	53	1	13.1	22.3	60.1	-0.4	75	14	5.26
131010	00425E	00850.00N	57114.67	57707.83	99	0000N	24.8	-0.2	1.6	51	-13	13.01	22.3	-15.4	-7.8	97	19	6.77
131058	00425E	00837.50N	57075.31	57668.5	99	0000N	24.8	-4.8	3.1	48	19	12.75	22.3	-18.3	-5.1	56	12	7.84
131122	00425E	00825.00N	57110.9	57704.04	99	0000N	24.8	-3.4	3.2	105	10	12.98	22.3	-19.4	-3	54	10	7.58
131202	00425E	00812.50N	57078.71	57671.94	99	0000N	24.8	-5.9	4.2	52	7	13.13	22.3	-14.5	-4.7	55	14	7.85
131230	00425E	00800.00N	57125.11	57718.36	99	0000N	24.8	0.3	4.2	49	12	12.59	22.3	-26.3	-3.7	53	13	7.48
131306	00425E	00787.50N	57086.83	57679.8	99	0000N	24.8	-2.8	5.9	102	21	12.9	22.3	-26.2	-4.9	54	11	7.61
131334	00425E	00775.00N	57130.76	57723.65	99	0000N	24.8	-3.6	7.2	54	4	13.35	22.3	-24.3	-3.2	54	10	7.57
131430	00425E	00762.50N	57303.27	57896.17	99	0000N	24.8	-6.7	9	55	4	13.76	22.3	-21.5	-2.1	63	9	8.74
131502	00425E	00750.00N	57211.42	57804.26	99	0000N	24.8	-5.8	9	56	4	14.05	22.3	-26.6	-2.3	59	8	8.26
131546	00425E	00737.50N	57224.88	57817.6	99	0000N	24.8	-9.8	7.9	55	3	13.55	22.3	-25.9	-2.8	58	10	8.18
131622	00425E	00725.00N	57091.78	57684.48	99	0000N	24.8	-10.5	8.1	52	9	13.04	22.3	-29.3	-4.3	58	9	8.12
131650	00425E	00712.50N	57285.97	57878.85	99	0000N	24.8	-7	8	54	-1	13.41	22.3	-37.1	-2.9	58	9	8.07
131722	00425E	00700.00N	57099.7	57692.52	99	0000N	24.8	-12.1	6.1	54	2	13.48	22.3	-35.5	0.5	53	11	7.53
131758	00425E	00687.50N	57070.87	57663.67	99	0000N	24.8	-13.8	4.9	53	4	13.18	22.3	-36.2	-2	55	10	7.72
131826	00425E	00675.00N	57062.93	57655.79	99	0000N	24.8	-11.9	2.6	50	14	12.95	22.3	-45.9	-0.4	52	13	7.48
131906	00425E	00662.50N	57097.98	57690.93	99	0000N	24.8	-8.5	3.5	51	3	12.73	22.3	-44.7	-7.2	44	9	6.29
131942	00425E	00650.00N	57117.43	57710.55	99	0000N	24.8	-12.8	3.1	50	0	12.47	22.3	-49	-0.1	93	18	6.5
132030	00425E	00637.50N	57249.16	57842.6	99	0000N	24.8	-12.9	2.3	48	10	12.33	22.3	-42.4	-4.5	45	11	6.39
132118	00425E	00625.00N	57121.97	57715.77	99	0000N	24.8	-13.5	2	97	8	12.08	22.3	-39.2	-3.4	94	16	6.52
132158	00425E	00612.50N	57132.93	57727	99	0000N	24.8	-16.3	3.6	47	11	12.08	22.3	-39.8	-0.5	47	6	6.58
132250	00425E	00600.00N	57216.39	57810.31	99	0000N	24.8	-7.3	0	99	-16	12.45	22.3	-46.9	-4	95	12	6.6
132358	00425E	00587.50N	57095.79	57689.93	99	0000N	24.8	-13.9	2.3	47	4	11.84	22.3	-39.5	-0.3	48	9	6.77
132438	00425E	00575.00N	57108.76	57702.84	99	0000N	24.8	-11.2	2.4	91	21	11.51	22.3	-44.6	0.4	101	14	7.04
132534	00425E	00562.50N	57139.63	57733.65	99	0000N	24.8	-6.1	4	48	0	11.84	22.3	-47.3	-3.1	49	5	6.85
132634	00425E	00550.00N	57070.5	57664.22	99	0000N	24.8	-8.6	1.5	95	7	11.79	22.3	-45.9	0.4	55	12	7.72
132710	00425E	00537.50N	57069.34	57663.12	99	0000N	24.8	-9.1	4.1	49	6	12.41	22.3	-45.7	2.1	49	11	6.99
132746	00425E	00525.00N	57061.33	57655.04	99	0000N	24.8	-10.6	4.5	90	25	11.6	22.3	-46.1	2.5	49	9	6.85
132834	00425E	00512.50N	57069.45	57666.62	99	0000N	24.8	-7.1	2.2	47	10	11.99	22.3	-48.2	2.4	102	25	7.22
133106	00425E	00500.00N	57094.46	57697.67	99	0000N	24.8	-6.1	2.6	94	14	11.78	22.3	-43.2	0.9	59	16	8.39
133138	00425E	00487.50N	57160.43	57753.47	99	0000N	24.8	-7	3.5	48	5	11.98	22.3	-41.6	-0.1	55	16	7.97
133208	00425E	00475.00N	57094.1	57687.22	99	0000N	24.8	-5.7	1.8	92	28	11.9	22.3	-44.9	2.1	56	14	7.91
133246	00425E	00462.50N	57223.9	57816.96	99	0000N	24.8	-5.2	3.4	49	9	12.35	22.3	-48.9	1	53	14	7.62
133326	00425E	00450.00N	57311.87	57905	99	0000N	24.8	-3	2.4	95	17	11.89	22.3	-50.2	2.5	52	13	7.4
133802	00475E	00450.00N	57265.71	57858.83	99	0000N	24.8	1.6	-2	49	5	12.16	22.3	32.6	2.3	42	10	6.02
133838	00475E	00462.50N	57176.17	57769.14	99	0000N	24.8	-0.6	-3.3	97	5	11.95	22.3	34.9	5.5	95	16	6.6
133902	00475E	00475.00N	20236.94	20829.86	0	0000N	24.8	3.4	-4.4	48	12	12.24	22.3	37.2	2.5	47	7	6.63
133930	00475E	00487.50N	57343.43	57936.23	99	0000N	24.8	-2.5	-4.1	94	-6	11.69	22.3	36	5.3	92	17	6.44
134022	00475E	00500.00N	57314.3	57907.12	99	0000N	24.8	-3.1	-4.2	47	8	11.95	22.3	42.1	2.6	50	12	7.1
134106	00475E	00512.50N	57272.98	57865.79	99	0000N	24.8	-2.1	-3.9	91	23	11.59	22.3	45.5	1.4	52	10	7.29
134210	00475E	00525.00N	57123.96	57716.9	99	0000N	24.8	-8.3	-5.2	47	-2	11.76	22.3	46.9	-0.1	45	9	6.27
134250	00475E	00537.50N	57109.6	57702.53	99	0000N	24.8	-9.5	-4.6	91	20	11.54	22.3	53.7	1.6	99	23	6.97
134318	00475E	00550.00N	57158.61	57751.51	99	0000N	24.8	-3.4	-6.7	48	9	12.16	22.3	46.3	-2.2	53	10	7.43
134346	00475E	00562.50N	57114.18	57707.16	99	0000N	24.8	-9.9	-6	96	1	11.86	22.3	46.1	3.5	52	12	7.44
134414	00475E	00575.00N	57110.29	57703.3	99	0000N	24.8	-8.5	-6.8	52	2	12.85	22.3	46.7	0.5	51	10	7.2
134446	00475E	00587.50N	57083.71	57676.82	99	0000N	24.8	-9.3	-5.7	51	2	12.61	22.3	49.2	-3.1	49	10	6.96
134514	00475E	00600.00N	57131.71	57724.94	99	0000N	24.8	-8	-4.6	49	8	12.33	22.3	50.6	-2.2	45	11	6.49
134546	00475E	00612.50N	57175.03	57768.24	99	0000N	24.8	-9.3	-4.5	102	16	12.81	22.3	48.3	-1.7	94	18	6.6
134614	00475E	00625.00N	57172.75	57765.93	99	0000N	24.8	-8.7	-3.5	52	8	12.99	22.3	50.9	-1.7	46	11	6.5
134706	00475E	00637.50N	57155.53	57748.95	99	0000N	24.8	-9.6	-3.8	50	6	12.59	22.3	52.6	-1.4	96	22	6.78
134758	00475E	00650.00N	57113.27	57706.54	99	0000N	24.8	-7.9	-4.2	55	3	13.64	22.3	51.2	-1.5	48	8	6.76
134838	00475E	00662.50N	57148.52	57741.88	99	0000N	24.8	-9.7	-3.4	54	-4	13.47	22.3	50.3	-2.6	89	17	6.2
134910	00475E	00675.00N	57199.59	57793	99	0000N	24.8	-6	-2.7	55	0	13.7	22.3	50.7	-4.3	88	14	6.15
134958	00475E	00687.50N	57135.24	57728.76	99	0000N	24.8	-3.7	-2.9	53	7	13.24	22.3	53.1	-1.2	98	16	6.8
135034	00475E	00700.00N	57123.52	57717.08	99	0000N	24.8	-7.3	-2.2	53	6	13.36	22.3	62	-2.2	43	7	6.06
135126	00475E	00712.50N	57100.29	57693.89	99	0000N	24.8	-7	-2.2	53	3	13.15	22.3	43.6	0.3	96	24	6.8
135218	00475E	00725.00N	57084.72	57678.34	99	0000N	24.8	-5.8	-3.2	55	1	13.55	22.3	49.7	-4.9	44	7	6.1
135314	00475E	00737.50N	57065.34	57659.12	99	0000N	24.8	-10.2	-3.3	53	1	13.05	22.3	51.4	-2.3	64	4	4.44
135430	00475E	00750.00N	57049.51	57643.44	99	0000N	24.8	-6.4	-2.9	55	-1	13.64	22.3	50.8	-2	75	11	5.23
135550	00475E	00762.50N	57037.39	57631.27	99	0000N	24.8	-4.4	-1.7	54	-9	13.59	22.3	40	3.9	70	11	4.85
135634	00475E	00775.00N	57032.38	57626.38	99	0000N	24.8	0.2	-4.3	54	5	13.38	22.3	44.8	-0.2	70	10	4.83
135738	00475E	00787.50N	57040.87	57634.6	99	0000N	24.8	1	-3.7	56	10	14.07	22.3	51.6	-0.4	73	19	5.19

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
135818	00475E	00800.00N	57047.69	57641.62	99	0000N	24.8	3.6	-3.8	56	3	13.93	22.3	36.3	1.1	68	15	4.82
135922	00475E	00812.50N	57100.27	57694.26	99	0000N	24.8	5.8	-5.9	52	10	13.13	22.3	42.9	-2.5	72	13	5.05
135954	00475E	00825.00N	57079.33	57673.46	99	0000N	24.8	4.6	-5.5	54	11	13.71	22.3	46.8	-2.2	73	12	5.06
140122	00475E	00837.50N	57122.94	57717.06	99	0000N	24.8	6.8	-6.6	44	26	12.59	22.3	42.5	-2.2	74	11	5.15
140210	00475E	00850.00N	57196.75	57790.84	99	0000N	24.8	3.9	-6.1	98	44	13.27	22.3	37.7	1	71	14	4.99
140342	00475E	00862.50N	57346.21	57940.21	99	0000N	24.8	2	-5.4	53	14	13.76	22.3	47.6	-1	77	16	5.41
140442	00475E	00875.00N	57374.68	57968.61	99	0000N	24.8	0.3	-4.8	54	9	13.48	22.3	48.5	-0.2	70	15	4.9
140538	00475E	00887.50N	57482	58075.92	99	0000N	24.8	3.7	-6.7	53	16	13.78	22.3	50.9	-3.4	80	18	5.64
140610	00475E	00900.00N	57203.93	57797.89	99	0000N	24.8	-0.7	-6.7	56	6	13.87	22.3	52.5	-2.2	73	14	5.1
140818	00500E	00900.00N	57332.22	57926.13	99	0000N	24.8	-6.8	1.5	48	24	13.33	22.3	-45.4	0	73	13	5.14
140850	00500E	00887.50N	57393.93	57987.92	99	0000N	24.8	-8.3	3.1	99	45	13.48	22.3	-46.3	-0.2	77	13	5.34
140942	00500E	00875.00N	57249.95	57843.95	99	0000N	24.8	-7.3	2.9	55	10	14.02	22.3	-46.3	2.5	74	14	5.17
141042	00500E	00862.50N	57252.23	57846.4	99	0000N	24.8	-0.8	0.2	51	-22	13.76	22.3	-51.2	0	80	15	5.59
142146	00550E	00850.00N	57101.91	57694.66	99	0000N	24.8	-1.3	2.9	52	17	13.7	22.3	-22.7	-4.8	116	39	8.38
142338	00550E	00837.50N	57097.6	57689.96	99	0000N	24.8	2.3	2.1	41	33	13.07	22.3	-12.3	-7.4	61	18	8.73
142458	00550E	00825.00N	57100.49	57692.6	99	0000N	24.8	-3.1	3.8	107	10	13.32	22.3	-27	-4	64	12	8.97
142554	00550E	00812.50N	57107.74	57699.44	99	0000N	24.8	-4	2.8	49	23	13.39	22.3	-30.7	-4.5	66	14	9.29
142654	00550E	00800.00N	57111.61	57703.44	99	0000N	24.8	-11.8	3.5	108	32	13.91	22.3	-35.1	2.1	62	10	8.62
142838	00550E	00787.50N	57111.06	57702.67	99	0000N	24.8	-19	7.8	22	37	10.67	22.3	-37.8	-1.5	64	13	8.98
142918	00550E	00775.00N	57145.91	57737.52	99	0000N	24.8	-3.5	-0.7	96	46	13.17	22.3	-48.8	-3.5	68	19	9.77
142958	00550E	00762.50N	57146.59	57738.09	99	0000N	24.8	-7.8	2.2	50	14	13.02	22.3	-41.3	-0.9	64	15	9.06
143034	00550E	00750.00N	57095.53	57687.18	99	0000N	24.8	-8.3	3.3	52	10	13.24	22.3	-42.9	-3.7	58	13	8.22
143118	00550E	00737.50N	57044.24	57635.96	99	0000N	24.8	-4	4.5	52	12	13.28	22.3	-47.9	-2.9	46	6	6.44
143202	00550E	00725.00N	57043.4	57635.13	99	0000N	24.8	-8.7	5.7	49	11	12.61	22.3	-36.9	-4.5	94	20	6.62
143238	00550E	00712.50N	57138.11	57729.72	99	0000N	24.8	-8.2	6.7	107	13	13.36	22.3	-40.6	-1.8	49	9	6.84
143310	00550E	00700.00N	57204.33	57795.59	99	0000N	24.8	-10.8	8.2	53	4	13.28	22.3	-35.9	-5.4	99	17	6.91
143346	00550E	00687.50N	57297.03	57888.11	99	0000N	24.8	-10.3	7.2	53	9	13.25	22.3	-38.8	-2.2	51	9	7.19
143422	00550E	00675.00N	57295.45	57886.08	99	0000N	24.8	-12.1	7.6	52	8	13.04	22.3	-39.6	-3.8	54	9	7.54
143458	00550E	00662.50N	57232.91	57823.37	99	0000N	24.8	-12.4	6.7	53	8	13.22	22.3	-40.4	-3.8	53	9	7.48
143534	00550E	00650.00N	57248.04	57838.32	99	0000N	24.8	-14.1	7.6	49	13	12.51	22.3	-37.6	-4.4	55	9	7.62
143622	00550E	00637.50N	57287.97	57878.15	99	0000N	24.8	-11.5	5.6	104	0	12.86	22.3	-39.9	-2.9	47	6	6.5
143658	00550E	00625.00N	57144.25	57734.09	99	0000N	24.8	-13.5	5.6	55	6	13.78	22.3	-42.7	-3.4	104	17	7.25
143742	00550E	00612.50N	57142.78	57732.68	99	0000N	24.8	-16.1	5.3	53	9	13.27	22.3	-40.7	-1.8	50	7	6.96
143838	00550E	00600.00N	57166.35	57756.04	99	0000N	24.8	-17.5	5.1	49	10	12.51	22.3	-54.3	2.4	50	8	7.04
143930	00550E	00587.50N	57348.51	57937.85	99	0000N	24.8	-17.7	5	93	26	11.94	22.3	-51.1	6.2	50	11	7.08
144026	00550E	00575.00N	57371.49	57960.3	99	0000N	24.8	-18.2	4.2	46	16	12.15	22.3	-49.7	-1.4	49	14	7.03
144114	00550E	00562.50N	57260.9	57849.75	99	0000N	24.8	-17.2	3.6	89	24	11.42	22.3	-50.2	0.5	98	19	6.84
144150	00550E	00550.00N	57378.31	57966.93	99	0000N	24.8	-18.2	3.6	90	28	11.71	22.3	-46	-1.9	54	10	7.63
144242	00550E	00537.50N	57248.89	57837.4	99	0000N	24.8	-16.4	3.1	46	8	11.7	22.3	-47.5	-1	47	8	6.53
144314	00550E	00525.00N	57220.63	57808.82	99	0000N	24.8	-16.4	2.9	95	16	11.92	22.3	-45	-3.7	117	22	8.15
144354	00550E	00512.50N	57265.04	57852.93	99	0000N	24.8	-16	4.3	46	6	11.42	22.3	-43.9	-2.4	58	11	8.15
144438	00550E	00500.00N	57351.94	57939.54	99	0000N	24.8	-15.6	3.7	96	13	12.02	22.3	-54.1	2.9	58	11	8.11
144514	00550E	00487.50N	57417.12	58004.36	99	0000N	24.8	-10.5	3.2	48	8	12.22	22.3	-55.2	-3.4	68	17	8.35
144546	00550E	00475.00N	57420.23	58007.45	99	0000N	24.8	-11.4	4.4	93	23	11.82	22.3	-50.3	2.2	62	13	8.79
144630	00550E	00462.50N	57412.46	57999.72	99	0000N	24.8	-10	6.4	48	7	12.07	22.3	-57.6	-0.2	51	11	7.23
144702	00550E	00450.00N	57426.62	58013.95	99	0000N	24.8	-10.2	5	99	5	12.27	22.3	-53.2	1.5	59	13	8.33
144822	00550E	00437.50N	57379.54	57967.1	99	0000N	24.8	-9.8	4.8	49	7	12.24	22.3	-53.1	0.9	49	13	7.01
144930	00550E	00425.00N	57090.31	57677.81	99	0000N	24.8	-11.4	5.4	93	26	11.95	22.3	-52.6	4.7	96	21	6.69
145014	00550E	00412.50N	57135.65	57723.19	99	0000N	24.8	-7.2	4.9	50	7	12.47	22.3	-55.2	0.9	49	11	6.92
Gem Syst	ems GSM	-19 v5.0 15	IX 97 ID 0	00068585 fi	le	01gul1	.mv3	23 VI	98									
TIME	LINE	STATION	FIELD nT	CORRECT FIELD nT	SIG QUAL	SLOPE	FIRST VLF STN	IN PHASE	OUT OF PHASE	X HOR AMP	Y HOR AMP	VLF TOTL FIELD	SECOND VLF STN	IN PHASE	OUT OF PHASE	X AMP	Y AMP	VLF TOTL FIELD
122334	00400E	00850.00N	57072.14	57687.02	99	0000N	24.8	-1.5	4.2	26	4	13.04	22.3	-44.2	-4	9	2	5.3
122518	00400E	00837.50N	57047.32	57662.78	99	0000N	24.8	-0.5	3.5	53	17	13.93	22.3	-45.8	-5.9	18	5	5.21
122558	00400E	00825.00N	57086.49	57701.98	99	0000N	24.8	0.5	3.6	52	17	13.61	22.3	-49.4	-7	36	9	5.11
122634	00400E	00812.50N	57050.96	57666.22	99	0000N	24.8	-2.8	3.8	54	13	13.82	22.3	-43.8	-8	74	18	5.23
122714	00400E	00800.00N	57088.75	57704.05	99	0000N	24.8	-1.5	5.1	51	16	13.31	22.3	-47.1	-8.6	73	19	5.2
122754	00400E	00787.50N	57069.8	57685.33	99	0000N	24.8	-2.3	6.8	51	12	13.05	22.3	-46.4	-7.8	73	17	5.15
122850	00400E	00775.00N	57207.7	57823.7	99	0000N	24.8	-3.6	7.9	52	17	13.7	22.3	-44	-8.2	66	16	4.67
123002	00400E	00762.50N	57092.67	57709.01	99	0000N	24.8	-3.9	6.6	58	6	14.39	22.3	-43.4	-6.8	64	15	4.54
123034	00400E	00750.00N	57131.83	57748.25	99	0000N	24.8	-2.8	6.6	56	5	13.98	22.3	-48.2	-7.3	65	14	4.58
123114	00400E	00737.50N	57208.32	57824.91	99	0000N	24.8	-4	7.6	52	9	13.18	22.3	-46.7	-8.5	64	15	4.56
132758	00400E	00737.50N	57329.79	57944.46	99	0000N	24.8	-5.5	9.1	52	7	13.05	22.3	-33.6	-6.8	56	9	3.91
132830	00400E	00737.50N	57208.21	57822.57	99	0000N	24.8	-6.5	9.2	52	2	12.96	22.3	-28.3	-9.7	58	11	4.06
132906	00400E	00725.00N	57328.99	57943.26	99	0000N	24.8	-5.2	9.6	50	2	12.53	22.3	-27.8	-9.5	56	9	3.95
132942	00400E	00712.50N	57247.13	57861.44	99	0000N	24.8	-1.1	10.7	53	0	13.08	22.3	-27.3	-9.7	58	8	4.02
133058	00400E	00700.00N	57193.12	57807.75	99	0000N	24.8	-11.7	6.5	50	-2	12.5	22.3	-35.3	-7.2	64	15	4.54
133122	00400E	00687.50N	57135.85	57750.44	99	0000N	24.8	-14.5	4.3	52	0	12.98	22.3	-29.4	-7.1	63	15	4.45
133158	00400E	00675.00N	57270.16	57884.8	99	0000N	24.8	-14	4.6	48	9	12.18	22.3	-33.4	-6.7	60	16	4.26
133230	00400E	00662.50N	57327.72	57942.6	99	0000N	24.8	-8.8	4.2	96	4	11.83	22.3	-37.8	-9.3	58	13	4.07
133302	00400E	00650.00N	57336.71	57951.81	99	0000N	24.8	-7.9	5.7	49	5	12.13	22.3	-37.8	-7.7	61	11	4.27
133342	00400E	00637.50N	57249.56	57864.56	99	0000N	24.8	-9.2	4.7	95	5	11.72	22.3	-37.9	-9	57	12	4.04
133414	00400E	00625.00N	57150.5	57765.54	99	0000N	24.8	-9.6	3	47	2	11.67	22.3	-38.3	-7.7	59	15	4.2
133446	00400E	00612.50N	57088.81	57704.1	99	0000N	24.8	-8.7	1.2	96	5	11.88	22.3	-40.8	-8.2	54	15	3.89

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
133558	00400E	00600.00N	57057.61	57673.41	99	0000N	24.8	-10.9	0.9	46	10	11.73	22.3	-40.2	-8	56	14	4
133802	00400E	00587.50N	57042.09	57657.29	99	0000N	24.8	-8.4	1.3	89	17	11.17	22.3	-35.2	-8	48	12	3.44
133902	00400E	00575.00N	57035.28	57650.16	99	0000N	24.8	-4.9	1.1	90	10	11.25	22.3	-37.7	-9.4	101	27	3.81
134006	00400E	00562.50N	57061.98	57676.11	99	0000N	24.8	-6.2	1.7	43	4	10.7	22.3	-37.3	-8.4	51	12	3.58
134042	00400E	00550.00N	57029.05	57643.06	99	0000N	24.8	-6.2	0.4	92	2	11.4	22.3	-34.3	-9.1	49	14	3.52
134122	00400E	00537.50N	57050.9	57664.56	99	0000N	24.8	-8.7	1.5	46	5	11.39	22.3	-30.8	-8.6	106	30	3.79
134154	00400E	00525.00N	57062.76	57676.08	99	0000N	24.8	-6.1	0.6	97	2	12.03	22.3	-35.8	-7.8	53	13	3.73
134542	00400E	00512.50N	57067.07	57679.88	99	0000N	24.8	-6.8	1.4	48	4	12.01	22.3	-35.2	-7.9	43	12	3.07
134610	00400E	00500.00N	57102.14	57714.98	99	0000N	24.8	-2.4	1.1	88	7	10.91	22.3	-40.2	-8.4	103	27	3.66
134642	00400E	00487.50N	57067.69	57680.34	99	0000N	24.8	-3.3	1.4	92	10	11.44	22.3	-35.9	-7.6	51	14	3.67
134714	00400E	00475.00N	57134.78	57747.37	99	0000N	24.8	-1.8	1.6	49	0	12.07	22.3	-41.1	-9	52	14	3.71
134806	00400E	00462.50N	57274.82	57887.89	99	0000N	24.8	-3	2.5	92	6	11.4	22.3	-38	-7.9	51	11	3.6
134838	00400E	00450.00N	57186.28	57799.18	99	0000N	24.8	-0.5	3.1	45	7	11.25	22.3	-35.1	-8	55	13	3.9
134910	00400E	00437.50N	57183.92	57796.79	99	0000N	24.8	-0.1	2.8	93	9	11.54	22.3	-36.3	-9	51	15	3.66
134950	00400E	00425.00N	57278.7	57891.62	99	0000N	24.8	2.1	3.8	47	5	11.79	22.3	-37.5	-7.5	49	13	3.51
135018	00400E	00412.50N	57215.05	57827.94	99	0000N	24.8	1.7	2.8	92	10	11.44	22.3	-38.4	-7.7	54	13	3.85
135054	00400E	00400.00N	57146.05	57758.72	99	0000N	24.8	0.5	2.8	50	7	12.48	22.3	-35.4	-8.5	53	13	3.77
135126	00400E	00387.50N	57150.98	57763.65	99	0000N	24.8	0.1	2.6	49	3	12.18	22.3	-33.2	-7.6	53	15	3.82
135202	00400E	00375.00N	57136.01	57748.98	99	0000N	24.8	4.7	2.9	99	13	12.38	22.3	-42.8	-7.1	53	12	3.76
135230	00400E	00362.50N	57154.41	57767.51	99	0000N	24.8	0.6	3.3	49	8	12.44	22.3	-37.5	-7.6	55	15	3.94
135302	00400E	00350.00N	57176.27	57789.18	99	0000N	24.8	0	3.2	101	16	12.67	22.3	-38.7	-7.8	55	13	3.88
135342	00400E	00337.50N	57162.56	57775.74	99	0000N	24.8	-2.2	1.6	51	9	12.95	22.3	-38.8	-7.9	53	15	3.79
135414	00400E	00325.00N	57195.65	57808.9	99	0000N	24.8	-1.9	0.9	52	7	12.96	22.3	-35.6	-8.2	53	11	3.77
135458	00400E	00312.50N	57110.83	57723.9	99	0000N	24.8	-6.6	1.1	50	6	12.48	22.3	-32.7	-6.8	53	13	3.79
135538	00400E	00300.00N	57080.16	57693.32	99	0000N	24.8	-1.4	0	51	7	12.88	22.3	-45.3	-7.8	53	14	3.8
135622	00400E	00287.50N	57039.68	57652.9	99	0000N	24.8	-5.3	2	49	7	12.28	22.3	-42.6	-6.8	56	13	3.94
135658	00400E	00275.00N	56970.87	57584.08	99	0000N	24.8	-6.1	2.3	100	22	12.69	22.3	-38.2	-7.6	59	17	4.27
135730	00400E	00262.50N	57069.31	57682.7	99	0000N	24.8	-5.4	5.7	53	6	13.35	22.3	-37.8	-6.6	62	15	4.37
135802	00400E	00250.00N	57068.7	57682.15	99	0000N	24.8	-5.9	7.1	52	12	13.27	22.3	-38.3	-7.4	62	18	4.43
135830	00400E	00237.50N	57065.98	57679.55	99	0000N	24.8	-5.1	7.6	54	0	13.28	22.3	-43	-7.3	61	16	4.37
135914	00400E	00225.00N	57039.11	57652.77	99	0000N	24.8	-9.9	9.8	49	16	12.76	22.3	-34.9	-5.3	58	20	4.22
135950	00400E	00212.50N	57079	57692.9	99	0000N	24.8	-7.5	10.7	108	13	13.46	22.3	-38.4	-7.6	64	19	4.61
140202	00400E	00200.00N	57132.15	57746.59	99	0000N	24.8	-8.5	10.2	55	1	13.65	22.3	-38.5	-7	55	15	3.9
140238	00400E	00187.50N	57050.57	57665.02	99	0000N	24.8	-11.1	13.3	52	-1	12.87	22.3	-31.5	-6.7	63	14	4.42
140310	00400E	00175.00N	57043.25	57657.58	99	0000N	24.8	-10.5	15.6	53	8	13.27	22.3	-32.2	-7	63	13	4.42
140350	00400E	00162.50N	57055.62	57669.74	99	0000N	24.8	-6.1	12.9	54	-5	13.41	22.3	-44.4	-8.3	62	17	4.47
140454	00400E	00150.00N	57045.09	57659.31	99	0000N	24.8	-11.9	14.6	52	0	12.85	22.3	-34.1	-7.6	60	17	4.32
140546	00400E	00137.50N	57025.91	57639.71	99	0000N	24.8	-9.8	16.3	53	-5	13.16	22.3	-34.8	-7.4	59	15	4.2
140654	00400E	00125.00N	57070.42	57684.57	99	0000N	24.8	-12.7	11.7	54	6	13.41	22.3	-39.4	-6.4	62	18	4.45
140726	00400E	00112.50N	57050.68	57664.65	99	0000N	24.8	-14.9	8.9	53	2	13.25	22.3	-44.8	-8.7	61	17	4.34
140806	00400E	00100.00N	57048.99	57662.56	99	0000N	24.8	-18.8	9	51	12	12.95	22.3	-36.5	-8.5	68	15	4.81
140850	00400E	00087.50N	57033.44	57646.87	99	0000N	24.8	-22	7.2	49	8	12.41	22.3	-41.7	-6.7	62	18	4.45
140934	00400E	00075.00N	57008.06	57621.05	99	0000N	24.8	-18.9	5.4	102	10	12.67	22.3	-43.5	-7	58	18	4.21
141014	00400E	00062.50N	57019.61	57632.21	99	0000N	24.8	-20.3	7.2	48	9	12.25	22.3	-38.9	-6	60	15	4.29
141110	00400E	00050.00N	57065.27	57677.22	99	0000N	24.8	-15.6	8.4	85	45	11.85	22.3	-41.2	-8.4	56	18	4.06
141218	00400E	00037.50N	57037.78	57649.03	99	0000N	24.8	-17.6	4.7	100	6	12.35	22.3	-48.5	-7.3	49	13	3.51
141322	00400E	00025.00N	57060.28	57670.47	99	0000N	24.8	-19.9	6.5	49	5	12.28	22.3	-43	-7.4	54	14	3.88
141426	00400E	00012.50N	57021.08	57630.29	99	0000N	24.8	-20.6	9.9	94	4	11.68	22.3	-37.4	-6.3	54	12	3.85
141518	00400E	00000.00N	57011.4	57620.28	99	0000N	24.8	-19.3	8.3	48	-3	11.95	22.3	-40.3	-5.5	48	16	3.52
143002	00450E	00000.00N	56999.47	57601.69	99	0000N	24.8	-12.6	3	23	4	11.72	22.3	46.4	4.4	9	2	5.33
143118	00450E	00012.50N	57016.69	57618.73	99	0000N	24.8	-19.5	1.9	47	5	11.73	22.3	51.1	7.1	20	4	5.69
143202	00450E	00025.00N	57040.88	57641.9	99	0000N	24.8	-15.7	3.6	95	15	11.86	22.3	41.5	7.2	44	9	6.17
143246	00450E	00037.50N	57022.98	57622.52	99	0000N	24.8	-18.2	2.4	50	0	12.36	22.3	39.3	8.4	94	19	6.59
143318	00450E	00050.00N	57045.06	57643.88	99	0000N	24.8	-19.8	1.5	49	2	12.3	22.3	46	8.2	51	12	7.19
143402	00450E	00062.50N	57031.6	57630.07	99	0000N	24.8	-16.5	6.5	92	35	12.13	22.3	44.7	8.3	52	12	7.3
143442	00450E	00075.00N	57004.27	57602.16	99	0000N	24.8	-15.7	5	50	3	12.51	22.3	42.9	8.6	49	11	6.92
143518	00450E	00087.50N	57013.59	57610.74	99	0000N	24.8	-20.8	4.1	51	0	12.73	22.3	42.6	8.7	106	19	7.37
143618	00450E	00100.00N	57032.3	57629.37	99	0000N	24.8	-16.2	3.7	51	-3	12.78	22.3	32.3	7.8	54	14	7.66
143734	00450E	00112.50N	57022.75	57619.6	99	0000N	24.8	-17.8	3.8	54	-1	13.45	22.3	42.9	8.7	51	12	7.27
143806	00450E	00125.00N	57014.93	57611.24	99	0000N	24.8	-17.8	6.3	51	1	12.7	22.3	46.8	7.8	53	12	7.49
143842	00450E	00137.50N	57019.59	57616.11	99	0000N	24.8	-15	5.8	53	-1	13.24	22.3	36.5	6.6	64	15	9.06
143922	00450E	00150.00N	57043.06	57640.35	99	0000N	24.8	-10.8	5.5	54	2	13.36	22.3	39.4	6.2	57	14	8.14
143958	00450E	00162.50N	57013.62	57610.52	99	0000N	24.8	-7.5	6	55	8	13.9	22.3	34.8	7.1	56	15	8.06
144046	00450E	00175.00N	57035.62	57631.89	99	0000N	24.8	-8.7	5.8	52	16	13.45	22.3	41.9	5.9	54	15	7.75
144158	00450E	00187.50N	57037.38	57633.91	99	0000N	24.8	-12.1	2.9	55	1	13.7	22.3	36	7.8	60	12	8.42
144306	00450E	00200.00N	57008.98	57604.76	99	0000N	24.8	-6.8	2.9	55	0	13.75	22.3	38	7.9	52	13	7.41
144358	00450E	00212.50N	57042.27	57638.15	99	0000N	24.8	-2.3	5.2	53	7	13.33	22.3	44	6.2	51	13	7.31
144434	00450E	00225.00N	57121.16	57716.72	99	0000N	24.8	-0.6	2.7	54	6	13.44	22.3	43.2	7.3	56	13	7.97
144530	00450E	00237.50N	57108.59	57703.57	99	0000N	24.8	-2.5	2.2	53	-2	13.18	22.3	37.2	9.6	56	13	7.89
144610	00450E	00250.00N	57173.39	57769	99	0000N	24.8	-3.8	0.7	53	3	13.3	22.3	46.1	8.7	53	12	7.51
144654	00450E	00262.50N	57006.03	57601.6	99	0000N	24.8	-1.6	-0.8	51	4	12.79	22.3	43.2	8.2	56	13	7.96
144738	00450E	00275.00N	57066.69	57661.28	99	0000N	24.8	1.1	-1.9	51	7	12.9	22.3	43.3	6	54	13	7.68
144810	00450E	00287.50N	57162.76	57756.57	99	0000N	24.8	-0.4	-3.2	50	5	12.41	22.3	45.4	7.4	57	13	8.08
144842	00450E	00300.00N	57222.15	57815.39	99	0000N	24.8	2.1	-2.8	50	5	12.51	22.3	41.3	6.6	54	13	7.63
144922	00450E	00312.50N	57186.85	57779.55	99	0000N	24.8	1.6	-4.6	49	8	12.35	22.3	42.7	6.2	53	13	7.58

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
145002	00450E	00325.00N	57190.5	57782.97	99	0000N	24.8	3.5	-4.9	99	15	12.37	22.3	36.9	6.3	54	12	7.71
145034	00450E	00337.50N	57230.31	57822.67	99	0000N	24.8	-1.2	-5	51	-1	12.76	22.3	41.3	7.4	56	13	7.98
145118	00450E	00350.00N	57303.37	57895.51	99	0000N	24.8	2.5	-5.2	50	2	12.41	22.3	38.7	8.4	53	10	7.49
145154	00450E	00362.50N	57242.7	57834.85	99	0000N	24.8	0.2	-5.7	49	0	12.19	22.3	38	7	51	10	7.2
145246	00450E	00375.00N	57244.53	57836.61	99	0000N	24.8	5	-5.7	96	13	11.99	22.3	35	7.2	50	11	7.11
145330	00450E	00387.50N	57186.17	57777.4	99	0000N	24.8	0.6	-3.8	50	0	12.31	22.3	39.5	7	47	12	6.66
145446	00450E	00400.00N	57169.79	57760.24	99	0000N	24.8	2.9	-6.2	99	13	12.34	22.3	29.7	9.1	96	21	6.76
145602	00450E	00412.50N	57113.15	57702.13	99	0000N	24.8	0.9	-5.6	50	3	12.44	22.3	35.5	9.1	46	9	6.49
145654	00450E	00425.00N	57209.89	57798.74	99	0000N	24.8	-2.4	-2.2	48	2	11.99	22.3	45.4	7.7	91	23	6.47
145738	00450E	00437.50N	57148.34	57737.1	99	0000N	24.8	-1.4	-4.2	95	2	11.77	22.3	42.5	9.1	45	9	6.28
145806	00450E	00450.00N	57233.31	57820.94	99	0000N	24.8	-1.4	-4.5	48	3	12.02	22.3	40.3	7.5	92	15	6.44
145854	00450E	00462.50N	57281.43	57867.74	99	0000N	24.8	-3.2	-4.7	91	10	11.34	22.3	44.2	7.9	49	9	6.94
145930	00450E	00475.00N	57219.7	57806.67	99	0000N	24.8	-0.9	-4.8	47	0	11.67	22.3	41.9	5.5	44	9	6.2
150002	00450E	00487.50N	57219.28	57805.82	99	0000N	24.8	-3.4	-4.4	99	1	12.2	22.3	42.2	8.5	94	20	6.6
150046	00450E	00500.00N	57207.94	57792.75	99	0000N	24.8	-3.9	-4.8	49	-1	12.08	22.3	41.9	6.6	49	11	6.87
150126	00450E	00512.50N	57143.3	57727.83	99	0000N	24.8	-3.5	-3.8	92	2	11.41	22.3	38	7.2	97	20	6.78
150210	00450E	00525.00N	57152.77	57738.6	99	0000N	24.8	-2.7	-4.7	48	3	12.01	22.3	37.1	6.8	47	11	6.68
150246	00450E	00537.50N	57086.79	57673.03	99	0000N	24.8	-5.7	-4.7	94	4	11.6	22.3	40.1	9	97	20	6.81
150322	00450E	00550.00N	57131.47	57717.25	99	0000N	24.8	-5.7	-6	48	4	11.99	22.3	37.8	7.8	48	10	6.73
150402	00450E	00562.50N	57093.61	57678.79	99	0000N	24.8	-5.6	-4.9	93	11	11.62	22.3	36.3	7.7	105	25	7.44
150442	00450E	00575.00N	57083.61	57668.83	99	0000N	24.8	-8.1	-6.8	50	2	12.5	22.3	39.7	7.2	52	10	7.28
150522	00450E	00587.50N	57154.91	57741.57	99	0000N	24.8	-8.1	-5.9	47	1	11.61	22.3	40.1	8	51	11	7.15
150558	00450E	00600.00N	57209.87	57796.92	99	0000N	24.8	-10.6	-4.8	93	18	11.68	22.3	49	6.9	49	10	6.95
150642	00450E	00612.50N	57094.17	57679.4	99	0000N	24.8	-14	-6.6	50	-2	12.44	22.3	43.9	7.2	50	11	7.08
150718	00450E	00625.00N	57121.42	57706.33	99	0000N	24.8	-10.2	-6.2	51	2	12.7	22.3	40.7	7.8	48	12	6.84
150810	00450E	00637.50N	57096.72	57683.2	99	0000N	24.8	-10.8	-4.7	50	-3	12.56	22.3	37.8	10.4	108	30	7.69
150842	00450E	00650.00N	57197.02	57783.42	99	0000N	24.8	-7.3	-4.3	48	4	12.07	22.3	35.6	6.6	55	12	7.79
150926	00450E	00662.50N	57148.95	57733.95	99	0000N	24.8	-10.5	-3.9	105	-6	13.02	22.3	37.5	7.3	53	12	7.56
151002	00450E	00675.00N	57071.48	57655.55	99	0000N	24.8	-11.1	-4.1	52	-4	12.88	22.3	36.6	6.9	54	11	7.54
151038	00450E	00687.50N	57072.13	57656.13	99	0000N	24.8	-12.5	-3.8	53	0	13.07	22.3	46.6	6.3	55	10	7.68
151114	00450E	00700.00N	57073.77	57657.69	99	0000N	24.8	-12.1	-4.4	53	0	13.24	22.3	43.3	9.3	52	10	7.34
151154	00450E	00712.50N	57045.22	57628.51	99	0000N	24.8	-7.1	-3.4	53	1	13.11	22.3	37.8	8	56	11	7.9
151226	00450E	00725.00N	57046.22	57629.06	99	0000N	24.8	-2	-3.2	54	4	13.45	22.3	34.1	5.9	53	13	7.56
151314	00450E	00737.50N	57051.32	57634.24	99	0000N	24.8	-3.7	-1.8	53	6	13.18	22.3	37.9	5.8	55	14	7.82
151346	00450E	00750.00N	57114.31	57697.23	99	0000N	24.8	0.4	-0.4	54	9	13.55	22.3	37.7	8.1	55	14	7.79
151418	00450E	00762.50N	57051.52	57634.47	99	0000N	24.8	-0.7	0.3	55	12	13.88	22.3	40.8	6.9	56	14	7.93
151458	00450E	00775.00N	57093.65	57676.64	99	0000N	24.8	0.5	-1.7	51	13	13.02	22.3	40.9	6.7	56	14	7.96
151542	00450E	00787.50N	57098.96	57681.44	99	0000N	24.8	0.2	-1.6	52	4	13.07	22.3	39.5	6.9	56	14	7.91
151614	00450E	00800.00N	57123.89	57705.75	99	0000N	24.8	4.2	-1.8	49	11	12.55	22.3	36.7	7.7	59	16	8.42
151650	00450E	00812.50N	57094.39	57675.86	99	0000N	24.8	2.5	-2.4	103	24	13.04	22.3	35.8	6.7	60	16	8.63
151730	00450E	00825.00N	57119.02	57700.39	99	0000N	24.8	1.7	-4.6	52	8	12.98	22.3	39.7	6.3	58	16	8.33
151814	00450E	00837.50N	57122.25	57703.07	99	0000N	24.8	0.6	-6.4	51	2	12.68	22.3	34.6	7.3	60	14	8.55
151910	00450E	00850.00N	57092.9	57673.05	99	0000N	24.8	0.9	-6	51	8	12.88	22.3	41.5	6.4	60	15	8.49
152614	00500E	00850.00N	57066.09	57641.63	99	0000N	24.8	-6.3	1.8	52	10	13.21	22.3	-43.8	-6.7	56	14	7.91
152718	00500E	00837.50N	57061.42	57636.12	99	0000N	24.8	-3.6	1.8	50	18	13.28	22.3	-38.9	-7.5	56	17	8.13
152814	00500E	00825.00N	57073.73	57649.3	99	0000N	24.8	-2.2	1.1	55	6	13.76	22.3	-45.4	-4.1	54	14	7.75
152906	00500E	00812.50N	57057.89	57634.47	99	0000N	24.8	-4.5	1.4	55	6	13.76	22.3	-43.4	-6.8	59	18	8.44
152946	00500E	00800.00N	57076.63	57652.84	99	0000N	24.8	-2.6	3.3	52	8	13.16	22.3	-48.4	-7	58	15	8.27
153110	00500E	00787.50N	57067.28	57643.21	99	0000N	24.8	-10.2	7.2	48	17	12.81	22.3	-39.8	-5.5	56	15	7.96
153146	00500E	00775.00N	57063.16	57639.01	99	0000N	24.8	-4.2	1.7	109	11	13.59	22.3	-49	-7.9	55	17	7.98
153246	00500E	00762.50N	57075.13	57651.29	99	0000N	24.8	-6	3	54	4	13.42	22.3	-42.5	-7	56	17	8.11
153354	00500E	00750.00N	57104.6	57681.31	99	0000N	24.8	-7.1	4.2	52	7	13.13	22.3	-40.8	-6.3	52	15	7.55
153458	00500E	00737.50N	57091.39	57669.12	99	0000N	24.8	-6.3	4.6	52	11	13.13	22.3	-44.1	-7.1	51	17	7.47
153542	00500E	00725.00N	57092.98	57671.03	99	0000N	24.8	-9.1	4.6	52	9	13.08	22.3	-41.5	-8.5	55	17	7.95
153722	00500E	00712.50N	57156.66	57735.55	99	0000N	24.8	-5.5	4.5	54	6	13.45	22.3	-48.2	-7.6	52	14	7.48
153826	00500E	00700.00N	57235.57	57813.76	99	0000N	24.8	-7.8	5.3	47	18	12.59	22.3	-45.4	-7.7	49	16	7.12
153934	00500E	00687.50N	57222	57799.81	99	0000N	24.8	-8.2	4.2	102	32	13.18	22.3	-40.2	-7.5	101	38	7.41
154022	00500E	00675.00N	57261.12	57838.23	99	0000N	24.8	-8.9	5.5	55	0	13.56	22.3	-48.3	-8.4	52	13	7.38
154158	00500E	00662.50N	57204.04	57780.28	99	0000N	24.8	-9.8	4.4	50	7	12.53	22.3	-41.2	-7.3	45	14	6.56
154234	00500E	00650.00N	57146.07	57721.67	99	0000N	24.8	-12.4	4.1	50	6	12.51	22.3	-41.5	-7.8	106	31	7.58
154342	00500E	00637.50N	57175.75	57750.98	99	0000N	24.8	-12.8	4.4	48	12	12.36	22.3	-44	-7.9	48	12	6.9
154430	00500E	00625.00N	57174.88	57749.56	99	0000N	24.8	-12.1	2.7	100	20	12.58	22.3	-47.9	-6.6	104	31	7.46
154522	00500E	00612.50N	57135.71	57709.69	99	0000N	24.8	-12.8	2.2	48	12	12.36	22.3	-45.8	-5.1	48	15	6.99
154610	00500E	00600.00N	57141.65	57715.1	99	0000N	24.8	-14.1	1.8	97	23	12.35	22.3	-42.4	-6.3	100	29	7.15
154658	00500E	00587.50N	57115.2	57687.59	99	0000N	24.8	-14.2	0.1	49	3	12.24	22.3	-43.9	-8.4	50	15	7.17
154746	00500E	00575.00N	57091.41	57663.12	99	0000N	24.8	-13.4	1.5	94	8	11.71	22.3	-44.2	-6.5	47	13	6.67
154826	00500E	00562.50N	57135.79	57707.18	99	0000N	24.8	-13.7	2	47	6	11.86	22.3	-41.8	-5.8	103	28	7.35
154906	00500E	00550.00N	57198.91	57769.37	99	0000N	24.8	-13.8	3.3	89	24	11.37	22.3	-40.7	-7.8	52	14	7.42
154946	00500E	00537.50N	57170.8	57740.44	99	0000N	24.8	-9.8	2.1	93	20	11.79	22.3	-42.8	-6.4	47	14	6.77
155034	00500E	00525.00N	57184.46	57753.45	99	0000N	24.8	-15.5	5.1	45	10	11.53	22.3	-37.2	-7.5	103	33	7.44
155138	00500E	00512.50N	57253.18	57821.62	99	0000N	24.8	-9	3.2	96	3	11.82	22.3	-39.6	-6.9	48	14	6.93
155238	00500E	00500.00N	57381.96	57949.01	99	0000N	24.8	-9	4.8	46	10	11.75	22.3	-40.9	-7.4	98	31	7.06
155342	00500E	00487.50N	57277.88	57844.13	99	0000N	24.8	-5.8	6.5	95	14	11.92	22.3	-48.1	-5.8	48	13	6.85
155426	00500E	00475.00N	57262.91	57829.26	99	0000N	24.8	-3.7	4.5	50	2	12.31	22.3	-43.4	-8.9	110	30	7.86
155514	00500E	00462.50N	57317.1	57883.04	99	0000N	24.8	-5.4	4.9	93	8	11.6	22.3	-40.8	-7.7	52	17	7.5

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
155606	00500E	00450.00N	57360.17	57925.82	99	0000N	24.8	-3.7	5.9	48	4	11.87	22.3	-41.9	-6.5	60	15	7.22
155642	00500E	00437.50N	57297.84	57863.14	99	0000N	24.8	-3.5	3.6	101	6	12.46	22.3	-41.9	-6	52	14	7.44
155718	00500E	00425.00N	57336.56	57901.39	99	0000N	24.8	-6.9	5.7	49	2	12.18	22.3	-36.8	-7.9	51	16	7.41
155802	00500E	00412.50N	57351.55	57915.34	99	0000N	24.8	-5.8	4.3	88	28	11.48	22.3	-40.3	-7.6	53	14	7.53
155842	00500E	00400.00N	57419.9	57983.69	99	0000N	24.8	-9.6	3.4	88	31	11.52	22.3	-42.3	-8.6	52	18	7.6
155930	00500E	00387.50N	57457.86	58021.92	99	0000N	24.8	-7.5	2.8	93	25	11.94	22.3	-44.6	-6.5	55	16	7.95
160018	00500E	00375.00N	57420.85	57983.99	99	0000N	24.8	-10.9	3.6	45	16	11.9	22.3	-40.1	-7.7	51	16	7.43
160106	00500E	00362.50N	57417.15	57979.89	99	0000N	24.8	-6.1	2	94	21	11.93	22.3	-45.2	-6.6	51	14	7.3
160202	00500E	00350.00N	57294.16	57856.77	99	0000N	24.8	-8	3	50	7	12.58	22.3	-42.1	-7.3	53	14	7.55
160306	00500E	00337.50N	57183.08	57745.66	99	0000N	24.8	-8.5	4.3	48	8	12.11	22.3	-43.4	-6.6	53	13	7.58
160354	00500E	00325.00N	57172.93	57734.87	99	0000N	24.8	-12.7	4	84	38	11.39	22.3	-39.9	-5.8	52	15	7.49
160458	00500E	00312.50N	57130.65	57691.89	99	0000N	24.8	-11.1	3	96	13	12.01	22.3	-39.9	-6	52	15	7.52
160626	00500E	00300.00N	57075.46	57636.08	99	0000N	24.8	-7.5	4.3	34	29	11.19	22.3	-41.5	-7.9	45	14	6.51
160758	00500E	00287.50N	57173.22	57732.59	99	0000N	24.8	-8	5.1	96	3	11.92	22.3	-37.4	-7.6	105	30	7.5
160902	00500E	00275.00N	57564.38	58122.88	99	0000N	24.8	-8.4	7	49	8	12.31	22.3	-35.7	-6.2	50	14	7.2
161010	00500E	00262.50N	57143.08	57701.48	99	0000N	24.8	-4.9	8.4	100	14	12.48	22.3	-38.3	-6.4	50	10	7.03
161118	00500E	00250.00N	57229.52	57787.87	99	0000N	24.8	-2.8	8.2	50	12	12.73	22.3	-39.8	-6.2	46	14	6.67
161218	00500E	00237.50N	57243.94	57801.58	99	0000N	24.8	-2.7	9.9	51	8	12.87	22.3	-41.3	-8.1	107	35	7.71
161258	00500E	00225.00N	57189.06	57746.58	99	0000N	24.8	-6.3	12.2	50	4	12.56	22.3	-32.6	-7	57	17	8.27
161342	00500E	00212.50N	57064.7	57621.96	99	0000N	24.8	-6	13.7	51	6	12.7	22.3	-33.3	-7.5	54	16	7.76
161418	00500E	00200.00N	57054.32	57611.53	99	0000N	24.8	-8	14.6	55	9	13.81	22.3	-32.6	-4.4	55	16	7.95
161522	00500E	00187.50N	57032.19	57588.85	99	0000N	24.8	-7.6	13	54	7	13.53	22.3	-40.5	-6.9	55	18	8.01
161602	00500E	00175.00N	57063.29	57619.53	99	0000N	24.8	-15.8	13.6	55	2	13.76	22.3	-32.3	-6.6	54	16	7.79
161638	00500E	00162.50N	57063.51	57619.12	99	0000N	24.8	-19.8	13	57	6	14.16	22.3	-33.2	-6.6	57	18	8.28
161710	00500E	00150.00N	57084.19	57639.19	99	0000N	24.8	-26.2	11	54	5	13.48	22.3	-34.1	-5	58	19	8.43
161750	00500E	00137.50N	57057.92	57612.52	99	0000N	24.8	-25	11	51	4	12.64	22.3	-36.1	-6.6	57	18	8.25
161846	00500E	00125.00N	57033.38	57587.54	99	0000N	24.8	-26.6	12.9	48	14	12.44	22.3	-35	-6.5	56	20	8.26
161958	00500E	00112.50N	57055.58	57608.83	99	0000N	24.8	-21.3	10.8	103	-6	12.72	22.3	-44.1	-6.6	55	17	7.98
162218	00500E	00100.00N	57028.06	57578.64	99	0000N	24.8	-21.3	14	50	1	12.36	22.3	-40.7	-5.8	52	20	7.74
162342	00500E	00087.50N	57066.31	57612.18	99	0000N	24.8	-19.1	13	51	1	12.76	22.3	-48	-5.8	55	19	8.05
162502	00500E	00075.00N	57049.94	57595	99	0000N	24.8	-15.3	14.2	50	-2	12.38	22.3	-52.6	-7.4	58	14	8.23
162710	00500E	00062.50N	57083.12	57627.05	99	0000N	24.8	-25.3	16.8	46	10	11.84	22.3	-36.2	-6.6	58	18	8.36
162810	00500E	00050.00N	57136.32	57679.37	99	0000N	24.8	-18.2	12	91	-26	11.72	22.3	-45.4	-6	61	18	8.72
162858	00500E	00037.50N	57165.07	57707.13	99	0000N	24.8	-19	12.4	48	2	11.9	22.3	-43.4	-6.9	61	20	8.81
162942	00500E	00025.00N	57090.14	57632.47	99	0000N	24.8	-16	10.7	96	-7	11.96	22.3	-50.6	-5.8	61	18	8.76
163034	00500E	00012.50N	57101.67	57645.27	99	0000N	24.8	-17.8	10.1	49	5	12.33	22.3	-45.4	-7.9	60	22	8.81
163150	00500E	00000.00N	57133.2	57677.58	99	0000N	24.8	-17.8	12.5	94	11	11.66	22.3	-42	-6.8	62	19	8.97
163750	00550E	00000.00S	57043.44	57589.5	99	0000N	24.8	-20.1	3	42	-22	11.84	22.3	36.2	8.1	57	14	8.09
163906	00550E	00012.50N	57103.53	57649.9	99	0000N	24.8	-14.9	7.1	96	3	11.82	22.3	39.7	6.7	62	15	8.83
163954	00550E	00025.00N	57112.77	57659.53	99	0000N	24.8	-17.3	7.2	51	-3	12.7	22.3	41.4	6.9	62	16	8.91
164042	00550E	00037.50N	57100.77	57648.78	99	0000N	24.8	-20.1	6.7	50	-2	12.47	22.3	50.3	6.3	66	17	9.33
164146	00550E	00050.00N	57089.63	57639.14	99	0000N	24.8	-21.9	7.1	49	-2	12.16	22.3	48	6.3	66	14	9.3
164714	00550E	00062.50N	57063.74	57621.38	99	0000N	24.8	-22.5	10.9	85	-51	12.26	22.3	46.1	8	62	13	8.74
164958	00550E	00075.00N	57049.99	57609.89	99	0000N	24.8	-22.7	11.5	100	-19	12.55	22.3	40.2	8.2	58	12	8.16
165054	00550E	00087.50N	57060.35	57621.74	99	0000N	24.8	-27.8	7.7	46	-18	12.33	22.3	44.2	7.2	64	13	8.96
165406	00550E	00100.00N	57040.09	57603.59	99	0000N	24.8	-18.9	9.1	103	8	12.81	22.3	38.5	6.3	61	17	8.78
165558	00550E	00112.50N	57039.45	57603.29	99	0000N	24.8	-19.8	8.6	54	-3	13.47	22.3	38.3	7.7	61	18	8.79
165646	00550E	00125.00N	57036.92	57600.17	99	0000N	24.8	-22.7	8.2	52	0	12.95	22.3	50.5	7	65	17	9.29
165722	00550E	00137.50N	57056.91	57620.31	99	0000N	24.8	-20.3	5.4	55	0	13.67	22.3	40.1	6.4	68	18	9.74
165758	00550E	00150.00N	57064.22	57627.76	99	0000N	24.8	-19.8	9.5	57	1	14.16	22.3	51.8	6.3	67	16	9.57
165838	00550E	00162.50N	57043.26	57606.99	99	0000N	24.8	-10.3	6.7	59	-1	14.51	22.3	34.1	6.5	73	18	10.28
165914	00550E	00175.00N	57204.5	57768.21	99	0000N	24.8	-5.8	6.7	57	3	14.27	22.3	39.1	6.1	78	21	11.06
165950	00550E	00187.50N	56989.49	57552.92	99	0000N	24.8	-0.9	8.9	56	9	13.95	22.3	38.7	4.9	74	21	10.63
170126	00550E	00200.00N	56973.87	57536.62	99	0000N	24.8	-1.4	8.4	50	11	12.71	22.3	46.2	5.4	77	19	10.93
170546	00550E	00212.50N	57008.71	57571.2	99	0000N	24.8	-1.8	7.4	52	7	13.04	22.3	46.1	5.2	73	21	10.46
170630	00550E	00225.00N	57245.37	57808.04	99	0000N	24.8	-5.7	6.8	41	-27	12.31	22.3	47.7	7.5	70	25	10.22
170754	00550E	00237.50N	57176.01	57738.65	99	0000N	24.8	-2.2	2.9	104	7	12.87	22.3	35.2	4.4	75	17	10.65
170850	00550E	00250.00N	57220.13	57782.53	99	0000N	24.8	-1.4	0.9	49	13	12.7	22.3	36.8	6.3	78	20	11.08
170930	00550E	00262.50N	57356.99	57919.35	99	0000N	24.8	-4.9	1.6	104	8	12.85	22.3	40.3	4.9	74	21	10.66
171010	00550E	00275.00N	57443	58005.44	99	0000N	24.8	-3.9	1.5	42	26	12.24	22.3	41.3	5.2	76	23	10.95
171050	00550E	00287.50N	57213.16	57775.71	99	0000N	24.8	-6.6	-0.1	107	5	13.21	22.3	38.6	5.6	76	21	10.94
171126	00550E	00300.00N	57109.29	57671.92	99	0000N	24.8	-5.5	-1	52	6	12.91	22.3	44.9	3	75	19	10.64
171210	00550E	00312.50N	57102.36	57665	99	0000N	24.8	-5.7	0	51	9	12.76	22.3	42.3	3.9	74	21	10.56
171246	00550E	00325.00N	57156.39	57719.14	99	0000N	24.8	0.9	0.3	51	10	12.99	22.3	36	4.3	79	22	11.31
171318	00550E	00337.50N	57201.89	57764.86	99	0000N	24.8	2	1.2	50	8	12.59	22.3	38.4	4.3	77	22	11.08
171354	00550E	00350.00N	57267.79	57830.8	99	0000N	24.8	0.4	0.4	51	4	12.71	22.3	39.2	4.1	76	22	10.93
171442	00550E	00362.50N	57264.98	57827.67	99	0000N	24.8	-0.1	-0.1	50	8	12.59	22.3	42.1	4	82	21	11.72
171610	00550E	00375.00N	57191.96	57753.83	99	0000N	24.8	1.8	-0.2	50	8	12.64	22.3	38.3	2.5	80	19	11.33
171646	00550E	00387.50N	57149.77	57711.48	99	0000N	24.8	-0.4	-1	50	6	12.56	22.3	35.7	1.5	80	20	11.31
171718	00550E	00400.00N	57189.81	57751.33	99	0000N	24.8	1	-2.6	46	15	12.11	22.3	40.9	0.5	81	19	11.46
Gem Syst	ems GSM	-19 v5.0 15	IX 97 ID 0	00068585 fi	le	02quil1	.mv3	24 VI	98									
111606	00525E	00400.00N	57230.2	57831.6	99	0000N	24.8	-7	7.1	24	4	12.39	22.3	-32.7	-6.9	8	2	4.89

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
111718	00525E	00387.50N	57145.59	57747.09	99	0000N	24.8	-7.4	7	51	3	12.59	22.3	-29.1	-9.7	18	4	5.3
111750	00525E	00375.00N	57106.49	57707.72	99	0000N	24.8	-10.6	7.1	50	6	12.58	22.3	-24.6	-9.3	40	9	5.67
111822	00525E	00362.50N	57138.67	57739.83	99	0000N	24.8	-5.5	6.7	50	-2	12.35	22.3	-27.7	-10.1	76	15	5.33
111850	00525E	00350.00N	57090.16	57691.62	99	0000N	24.8	-10.6	6.9	50	4	12.45	22.3	-23.9	-9.7	83	15	5.79
111926	00525E	00337.50N	57136.8	57738.78	99	0000N	24.8	-9.9	5.9	53	4	13.15	22.3	-26.6	-9.2	85	16	5.96
111958	00525E	00325.00N	57090.21	57692.05	99	0000N	24.8	-13.6	6.1	50	6	12.44	22.3	-24.3	-10.5	89	19	6.29
112026	00525E	00312.50N	57035.94	57637.51	99	0000N	24.8	-6.7	5.6	51	-3	12.81	22.3	-28.4	-8.9	46	8	6.46
112106	00525E	00300.00N	57184.11	57785.71	99	0000N	24.8	-16	6	49	5	12.18	22.3	-22.6	-8.9	94	19	6.58
112150	00525E	00287.50N	57286.19	57888.16	99	0000N	24.8	-10.7	6.4	100	8	12.35	22.3	-30.4	-9.1	47	10	6.64
112238	00525E	00275.00N	57203.13	57805.55	99	0000N	24.8	-10.8	8.3	51	13	13.01	22.3	-42.5	-8	106	16	7.34
112334	00525E	00262.50N	57237.85	57840.14	99	0000N	24.8	-13.3	9.6	45	16	11.96	22.3	-27.8	-9.1	52	12	7.37
112510	00525E	00250.00N	57500.71	58103.73	99	0000N	24.8	-7	8.5	98	15	12.3	22.3	-42.4	-7	58	15	8.32
112602	00525E	00237.50N	57233.83	57837.02	99	0000N	24.8	-4.4	10.1	50	10	12.62	22.3	-41.1	-8	52	17	7.55
112634	00525E	00225.00N	57171.95	57774.79	99	0000N	24.8	-5.4	12.6	53	9	13.22	22.3	-41.1	-6.9	60	16	8.54
112706	00525E	00212.50N	57002.55	57605.39	99	0000N	24.8	-7.4	13.9	53	10	13.39	22.3	-38.6	-7.2	64	18	9.12
112742	00525E	00200.00N	56995.96	57599.16	99	0000N	24.8	-4.8	13.1	54	10	13.76	22.3	-44.3	-7.1	63	17	9.06
112850	00525E	00187.50N	57005.5	57609.36	99	0000N	24.8	-6.6	14.5	57	7	14.18	22.3	-42.5	-7.3	62	21	9.11
112918	00525E	00175.00N	57049.82	57653.71	99	0000N	24.8	-11.9	14.8	59	8	14.73	22.3	-39.6	-6.2	71	19	10.13
112950	00525E	00162.50N	57012.3	57615.77	99	0000N	24.8	-16.7	12.9	61	5	15.21	22.3	-38.6	-8.3	68	21	9.86
113026	00525E	00150.00N	57006.99	57610.35	99	0000N	24.8	-21.3	12.1	56	6	14.07	22.3	-38.1	-7.5	71	21	10.19
113102	00525E	00137.50N	57004.89	57608.41	99	0000N	24.8	-23.1	12	54	5	13.38	22.3	-40.5	-6.7	72	21	10.33
113138	00525E	00125.00N	56996.88	57600.98	99	0000N	24.8	-25	15.9	50	16	13.16	22.3	-38.1	-7.3	73	21	10.53
113222	00525E	00112.50N	57000.45	57605.34	99	0000N	24.8	-25.8	15.4	52	3	12.93	22.3	-38.6	-5.6	76	24	11.01
113458	00525E	00100.00N	57022.74	57627.42	99	0000N	24.8	-26.2	16.6	48	11	12.15	22.3	-35.4	-4.9	77	25	11.18
114618	00575E	00100.00N	57025.44	57631.3	99	0000N	24.8	-18.5	10.1	105	30	13.67	22.3	47.8	4	82	8	11.32
114846	00575E	00112.50N	57014.89	57619.59	99	0000N	24.8	-19.5	8.8	54	9	13.62	22.3	47.2	3.1	61	10	8.56
115130	00575E	00125.00N	57011.71	57618.29	99	0000N	24.8	-31.1	8.4	53	-7	13.21	22.3	61.7	5.5	55	7	7.68
115234	00575E	00137.50N	57010.44	57617.03	99	0000N	24.8	-18.3	7.7	57	8	14.27	22.3	60.9	0.6	66	11	9.26
115322	00575E	00150.00N	57002.42	57608.88	99	0000N	24.8	-12.8	9.9	58	0	14.41	22.3	51.6	2.8	68	19	9.8
115402	00575E	00162.50N	56972.72	57579.4	99	0000N	24.8	-9.3	10	60	4	14.9	22.3	53.9	-0.2	64	16	9.04
115438	00575E	00175.00N	56960.89	57568.05	99	0000N	24.8	-4.5	7.9	58	7	14.53	22.3	50.6	0.3	66	13	9.33
115618	00575E	00187.50N	57132.34	57739.95	99	0000N	24.8	-5.3	9.7	55	7	13.87	22.3	42.9	4.5	65	19	9.35
115706	00575E	00200.00N	56853.75	57461.24	99	0000N	24.8	-2.1	8.3	54	5	13.39	22.3	48.1	1.4	64	17	9.1
115810	00575E	00212.50N	56930.31	57537.55	99	0000N	24.8	-0.6	5.6	52	4	13.07	22.3	42.1	-0.1	63	13	8.85
115922	00575E	00225.00N	57025.28	57632.96	99	0000N	24.8	-0.2	3.9	51	2	12.65	22.3	40.7	0	66	10	9.24
120306	00575E	00237.50N	57169.62	57778.03	99	0000N	24.8	-2.3	4	52	9	13.05	22.3	40.7	0.2	58	20	8.46
120422	00575E	00250.00N	57228.14	57836.49	99	0000N	24.8	-4.9	1.9	54	3	13.35	22.3	47.1	0.4	60	13	8.44
120454	00575E	00262.50N	57106.27	57714.73	99	0000N	24.8	-4.2	1.5	55	6	13.84	22.3	44.3	2.6	61	16	8.66
120526	00575E	00275.00N	57023.06	57631.41	99	0000N	24.8	-4.3	1.4	54	4	13.55	22.3	46.8	3.1	58	15	8.3
120606	00575E	00287.50N	57173.16	57781.69	99	0000N	24.8	1.8	2.9	53	12	13.5	22.3	45.2	4.1	61	15	8.63
120650	00575E	00300.00N	57037.81	57646.61	99	0000N	24.8	3	1.6	47	23	13.07	22.3	47.7	0.1	60	12	8.45
120730	00575E	00312.50N	57068.06	57676.85	99	0000N	24.8	-3.5	2	104	19	13.08	22.3	49.5	2.3	57	13	8.14
120802	00575E	00325.00N	57141.56	57750.41	99	0000N	24.8	-1.7	1.1	53	5	13.27	22.3	49.6	2.9	57	14	8.03
120838	00575E	00337.50N	57179.08	57787.9	99	0000N	24.8	-1.4	1.2	53	4	13.15	22.3	46.1	2.8	55	18	8.04
120910	00575E	00350.00N	57191.67	57800.28	99	0000N	24.8	-5	0.2	48	13	12.3	22.3	50.1	3.7	54	15	7.78
120946	00575E	00362.50N	57329.54	57937.83	99	0000N	24.8	-4.9	-1.3	103	9	12.77	22.3	46.6	3	54	14	7.65
121026	00575E	00375.00N	57146.59	57754.59	99	0000N	24.8	-6.6	-2.7	53	0	13.19	22.3	47.9	1.9	56	14	7.97
121058	00575E	00387.50N	57186.26	57794.13	99	0000N	24.8	-4.7	-3	51	9	12.85	22.3	50.1	3.3	56	14	8
121142	00575E	00400.00N	57202.6	57810.54	99	0000N	24.8	-1.8	-2.8	53	8	13.24	22.3	43.7	-1	54	12	7.59
121430	00600E	00400.00N	57149.73	57756.98	99	0000N	24.8	-11.4	3.9	26	10	13.78	22.3	-39.1	0	21	4	6.03
121518	00600E	00387.50N	57114.84	57721.81	99	0000N	24.8	-14.3	3.3	56	-1	13.85	22.3	-35.5	-0.4	44	8	6.12
121554	00600E	00375.00N	57089.96	57696.66	99	0000N	24.8	-13.7	3.9	55	0	13.68	22.3	-34.3	-4.1	85	18	6
121630	00600E	00362.50N	57070.72	57677.39	99	0000N	24.8	-12.9	4.6	55	-7	13.7	22.3	-35.9	-2.2	83	17	5.84
121702	00600E	00350.00N	57083.53	57690.15	99	0000N	24.8	-10.4	5.3	55	0	13.59	22.3	-37.9	-5.5	82	17	5.76
121750	00600E	00337.50N	57068.08	57673.74	99	0000N	24.8	-12.3	6.9	56	0	13.85	22.3	-34.1	0.4	87	13	6.08
121826	00600E	00325.00N	57066.86	57672.57	99	0000N	24.8	-7.9	8.4	56	-1	13.88	22.3	-38.5	-3.9	81	12	5.61
121858	00600E	00312.50N	57134.9	57741.22	99	0000N	24.8	-9.8	7.7	57	-1	14.21	22.3	-36.2	-2.4	80	14	5.58
121934	00600E	00300.00N	57069.41	57676.3	99	0000N	24.8	-8.7	9.6	59	-3	14.71	22.3	-38.3	-2	82	12	5.73
122046	00600E	00287.50N	57026.43	57632.97	99	0000N	24.8	-9.7	8.9	56	0	13.86	22.3	-38.3	-3.2	77	15	5.41
122130	00600E	00275.00N	56994.86	57601.13	99	0000N	24.8	-10.5	11	56	0	14.01	22.3	-32.7	-1.8	86	14	5.99
122214	00600E	00262.50N	56994.34	57600.84	99	0000N	24.8	-8.1	11.5	57	-7	14.19	22.3	-35.3	-3.3	88	16	6.18
122250	00600E	00250.00N	57057.46	57663.85	99	0000N	24.8	-9.8	12.1	59	-1	14.68	22.3	-34.8	-5.8	110	23	7.73
122422	00600E	00237.50N	57356.31	57962.79	99	0000N	24.8	-12	11	59	-6	14.78	22.3	-36.8	-3.9	55	13	7.85
122534	00600E	00225.00N	57684.79	58291.03	99	0000N	24.8	-9.3	10.8	61	-1	15.1	22.3	-42.1	-5.1	53	13	7.58
122806	00600E	00212.50N	57070.74	57677.15	99	0000N	24.8	-8	13.9	57	-11	14.48	22.3	-50.6	3	53	9	7.43
122946	00600E	00200.00N	57063.83	57669.69	99	0000N	24.8	-7.1	15.1	59	-5	14.62	22.3	-43.2	-0.9	50	13	7.16
123026	00600E	00187.50N	57185.73	57790.87	99	0000N	24.8	-3.3	16.4	61	-7	15.14	22.3	-50.6	2.5	46	10	6.47
123218	00600E	00175.00N	57073.98	57680.06	99	0000N	24.8	-7.6	16.8	61	0	15.1	22.3	-43.2	-0.7	99	26	7.02
132214	00600E	00162.50N	57109.09	57709.93	99	0000N	24.8	-7.6	17.6	59	-7	14.82	22.3	-38	1.6	28	3	3.96
132254	00600E	00150.00N	57091.32	57691.27	99	0000N	24.8	-10.9	18.4	57	-12	14.42	22.3	-31.8	3	53	6	3.71
132350	00600E	00137.50N	57049.52	57649.39	99	0000N	24.8	-14.8	17.5	58	14	14.71	22.3	-38.5	0.9	52	3	3.57
132442	00600E	00125.00N	57047.01	57647.87	99	0000N	24.8	-17.8	17	59	-3	14.7	22.3	-38.8	1.3	48	5	3.36
132546	00600E	00112.50N	57066.74	57666.17	99	0000N	24.8	-20.6	17.8	56	-5	13.93	22.3	-35.7	2.1	100	13	3.47
132654	00600E	00100.00N	57057.22	57654.88	99	0000N	24.8	-25	19.3	55	-5	13.71	22.3	-34.7	4.1	48	5	3.3
132746	00600E	00087.50N	57049.35	57647.75	99	0000N	24.8	-23.3	18.7	53	-5	13.13	22.3	-37.7	0.9	94	13	3.25

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
132830	00600E	00075.00N	57049.33	57647.74	99	0000N	24.8	-24.8	17.7	53	-1	13.16	22.3	-36	3.1	46	4	3.19
132934	00600E	00062.50N	57044.69	57642.8	99	0000N	24.8	-25.7	18.6	52	-5	13.05	22.3	-33.7	1.8	90	10	3.13
133102	00600E	00050.00N	57040.6	57638.63	99	0000N	24.8	-23.5	19.5	50	-13	12.75	22.3	-32.9	3	46	6	3.21
133138	00600E	00037.50N	57038.83	57636.96	99	0000N	24.8	-23.5	15.5	52	12	13.33	22.3	-32.8	-2.1	79	8	2.71
133214	00600E	00025.00N	57054.44	57652.17	99	0000N	24.8	-21.1	16.1	52	0	12.87	22.3	-38.4	-0.9	89	7	3.06
133250	00600E	00012.50N	57040.97	57638.68	99	0000N	24.8	-22.4	15.4	53	-4	13.16	22.3	-34.4	0	83	12	2.88
133342	00600E	00000.00N	57062.24	57659.94	99	0000N	24.8	-23.5	15.7	51	-5	12.7	22.3	-35.6	3.8	86	8	2.96
133514	00625E	00000.00S	57026.52	57624.87	99	0000N	24.8	-16.3	8.6	55	4	13.75	22.3	21.7	7.1	77	6	2.64
133546	00625E	00012.50N	56983.36	57581.34	99	0000N	24.8	-20	9.4	54	3	13.36	22.3	31.9	2.9	83	8	2.87
133618	00625E	00025.00N	56949.6	57546.78	99	0000N	24.8	-16.9	10.8	54	-1	13.36	22.3	28.5	3.1	80	4	2.75
133650	00625E	00037.50N	57019.74	57616.84	99	0000N	24.8	-16.3	11.7	55	2	13.68	22.3	27.2	1.4	79	7	2.74
133718	00625E	00050.00N	57017.15	57614.09	99	0000N	24.8	-15.5	11.2	54	-3	13.42	22.3	24.6	1	80	4	2.77
133822	00625E	00062.50N	57089.06	57686.09	99	0000N	24.8	-16.7	10.4	54	1	13.48	22.3	28	2.7	82	3	2.83
133858	00625E	00075.00N	57045.59	57642.65	99	0000N	24.8	-18.1	11.7	55	7	13.73	22.3	29.3	3.3	80	0	2.74
133954	00625E	00087.50N	57088.86	57685.62	99	0000N	24.8	-18.1	12.1	57	4	14.15	22.3	35.5	3.8	82	12	2.86
134030	00625E	00100.00N	57133.17	57729.53	99	0000N	24.8	-15.8	12.1	57	4	14.1	22.3	35.6	0.4	80	7	2.74
134110	00625E	00112.50N	57113.73	57710.11	99	0000N	24.8	-15.3	12.4	59	8	14.65	22.3	36.3	0.3	78	8	2.69
134146	00625E	00125.00N	57108.98	57705.74	99	0000N	24.8	-15	13.4	56	17	14.51	22.3	37.6	-2.2	74	10	2.57
134230	00625E	00137.50N	57126.6	57724.19	99	0000N	24.8	-10.8	13.9	59	-1	14.55	22.3	40.3	1.6	74	9	2.55
134306	00625E	00150.00N	57118	57715.71	99	0000N	24.8	-9.9	16.2	56	0	13.85	22.3	38	5.7	74	14	2.58
134346	00625E	00162.50N	57240.91	57838.84	99	0000N	24.8	-6.4	12.5	57	-6	14.22	22.3	41.1	4.6	77	10	2.67
134422	00625E	00175.00N	57436.18	58033.89	99	0000N	24.8	-4.9	13.2	52	-9	13.02	22.3	38.3	5.5	75	10	2.6
134510	00625E	00187.50N	57229.35	57827.24	99	0000N	24.8	-5	10.8	52	-5	12.87	22.3	39.2	4.6	73	6	2.5
134538	00625E	00200.00N	57192.08	57790.17	99	0000N	24.8	-5.2	9.8	54	1	13.42	22.3	38.8	1.5	72	8	2.49
134730	00625E	00212.50N	57274.44	57873.38	99	0000N	24.8	-4.2	7.5	53	-13	13.45	22.3	22.8	4.6	83	9	2.86
134822	00625E	00225.00N	57411.07	58009.67	99	0000N	24.8	-4.2	7.1	49	-13	12.73	22.3	25.2	4.3	81	15	2.84
134902	00625E	00237.50N	57172.66	57771.06	99	0000N	24.8	-4.6	7	106	-2	13.08	22.3	25.6	2.3	80	10	2.77
134938	00625E	00250.00N	57203.39	57801.52	99	0000N	24.8	-2.6	7.1	54	-4	13.35	22.3	22.6	2.8	81	14	2.84
135010	00625E	00262.50N	57035.24	57634.28	99	0000N	24.8	-5.3	4.9	53	4	13.21	22.3	26.4	3	77	11	2.68
135042	00625E	00275.00N	57081.08	57679.02	99	0000N	24.8	-4.9	4.7	54	9	13.48	22.3	23.5	4.6	80	18	2.82
135310	00625E	00287.50N	57244.96	57841.43	99	0000N	24.8	-2.2	2.6	52	-4	12.85	22.3	22.1	4	86	9	2.96
140154	00625E	00300.00N	57120.86	57715.58	99	0000N	24.8	-8.5	4.4	52	-1	12.9	22.3	43.4	-1.3	62	7	2.16
140258	00625E	00312.50N	57196.48	57791.31	99	0000N	24.8	-9.1	-0.3	52	-5	13.08	22.3	44.7	-2	68	3	2.33
140338	00625E	00325.00N	57100.61	57695.56	99	0000N	24.8	-11.4	1.8	49	-3	12.19	22.3	45.7	-0.5	58	2	2
140426	00625E	00337.50N	57061.38	57656.56	99	0000N	24.8	-10.5	-0.3	99	-17	12.42	22.3	44.3	1.5	62	4	2.12
140454	00625E	00350.00N	57124.82	57719.52	99	0000N	24.8	-7.9	-3.3	48	-8	12.11	22.3	43.1	-1.7	63	4	2.18
140526	00625E	00362.50N	57132.52	57726.97	99	0000N	24.8	-12.3	-2	101	-7	12.58	22.3	46.5	-0.1	62	4	2.14
140602	00625E	00375.00N	57262.12	57856.14	99	0000N	24.8	-10.3	-2.7	49	-10	12.42	22.3	43.8	-1.1	60	4	2.06
140638	00625E	00387.50N	57185.03	57778.51	99	0000N	24.8	-14	-4.8	97	-9	12.01	22.3	44.2	-2.8	60	3	2.06
140714	00625E	00400.00N	57134.04	57727.29	99	0000N	24.8	-11.8	-6.2	51	0	12.68	22.3	39.4	-1	61	2	2.1
140930	00650E	00400.00N	57246.93	57838.48	99	0000N	24.8	-19.8	4.1	50	-11	12.68	22.3	-30.2	-1.8	65	5	2.25
141006	00650E	00387.50N	57260.58	57851.81	99	0000N	24.8	-16.3	3.2	52	-6	12.9	22.3	-33.1	-0.4	60	3	2.06
141054	00650E	00375.00N	57176.56	57767.46	99	0000N	24.8	-13.4	4	51	0	12.67	22.3	-42.3	2.2	64	4	2.2
141154	00650E	00362.50N	57170.06	57761.23	99	0000N	24.8	-15.9	5.7	50	-6	12.47	22.3	-39.8	4.3	67	6	2.31
141238	00650E	00350.00N	57163.68	57756.09	99	0000N	24.8	-13.9	6.4	50	-10	12.7	22.3	-35.6	-0.1	61	3	2.12
141326	00650E	00337.50N	57121.12	57713.43	99	0000N	24.8	-13.8	6.5	50	-8	12.67	22.3	-34.4	1.1	64	6	2.22
141402	00650E	00325.00N	57105.41	57697.68	99	0000N	24.8	-15.5	7.1	46	-10	11.79	22.3	-35.8	1.9	66	5	2.26
141434	00650E	00312.50N	57218.32	57810.42	99	0000N	24.8	-12.4	7.1	100	-7	12.35	22.3	-38.1	0.1	62	4	2.12
141506	00650E	00300.00N	57221.04	57812.86	99	0000N	24.8	-11.3	8.9	53	-2	13.27	22.3	-34.5	2.7	62	1	2.13
141538	00650E	00287.50N	57141.33	57733.09	99	0000N	24.8	-11.1	9.1	51	-3	12.64	22.3	-34.8	0.1	65	3	2.22
141610	00650E	00275.00N	57231.52	57823.39	99	0000N	24.8	-11.8	12.2	52	-9	13.07	22.3	-32	2.2	56	3	1.92
141654	00650E	00262.50N	57166.15	57758.72	99	0000N	24.8	-9.7	11.8	52	-4	13.04	22.3	-34.2	1.2	61	3	2.11
141738	00650E	00250.00N	57314.4	57905.84	99	0000N	24.8	-11.6	13.7	48	-13	12.39	22.3	-35.5	2.3	66	6	2.3
141818	00650E	00237.50N	57469.94	58060.04	99	0000N	24.8	-8.5	14	99	-16	12.38	22.3	-31.9	0.2	61	7	2.11
141858	00650E	00225.00N	57331	57920.34	99	0000N	24.8	-7.8	17.3	41	-27	12.3	22.3	-33.7	1.4	64	10	2.23
141942	00650E	00212.50N	57274.04	57863.19	99	0000N	24.8	-6.7	14.9	109	-7	13.48	22.3	-36.8	1.9	65	1	2.25
142018	00650E	00200.00N	57361.91	57951.13	99	0000N	24.8	-9.7	17.6	53	-6	13.19	22.3	-37.6	2.9	67	4	2.32
142106	00650E	00187.50N	57411.97	58001.62	99	0000N	24.8	-4.7	16.7	50	-9	12.68	22.3	-31.5	1.7	62	4	2.13
142146	00650E	00175.00N	57382.5	57971.83	99	0000N	24.8	-8	18.5	55	-6	13.79	22.3	-35.1	3.9	60	5	2.07
142226	00650E	00162.50N	57306	57895.2	99	0000N	24.8	-5.8	19.1	58	-5	14.53	22.3	-34.8	3.9	61	2	2.1
142310	00650E	00150.00N	57300.37	57889.38	99	0000N	24.8	-9.1	19.8	54	-7	13.47	22.3	-31.3	2.9	64	2	2.21
142354	00650E	00137.50N	57188.31	57776.79	99	0000N	24.8	-10.9	21	55	-8	13.88	22.3	-33.5	3.1	64	5	2.2
142434	00650E	00125.00N	57205.27	57793.38	99	0000N	24.8	-13.5	20.7	55	-8	13.9	22.3	-29.9	3.2	69	2	2.36
142522	00650E	00112.50N	57160.46	57748.76	99	0000N	24.8	-12.2	19.9	54	-12	13.85	22.3	-42	5.1	70	7	2.42
142606	00650E	00100.00N	57144.98	57733.45	99	0000N	24.8	-18.3	18.8	53	-15	13.7	22.3	-44.6	4.6	71	11	2.47
142714	00650E	00087.50N	57131.45	57719.19	99	0000N	24.8	-23.4	21.5	49	-18	12.95	22.3	-37.2	5.4	73	14	2.57
142802	00650E	00075.00N	57122.02	57709.48	99	0000N	24.8	-20.5	19.2	104	-19	13.1	22.3	-39.1	5.4	68	8	2.37
142838	00650E	00062.50N	57084.62	57672.11	99	0000N	24.8	-17.8	19.6	55	-5	13.64	22.3	-42.9	3.8	71	4	2.46
142918	00650E	00050.00N	57073.97	57661.41	99	0000N	24.8	-22.1	19.8	50	-11	12.85	22.3	-44.1	6.1	73	7	2.52
142950	00650E	00037.50N	56988.26	57575.62	99	0000N	24.8	-21.9	20.2	50	-12	12.87	22.3	-44.5	6.8	72	9	2.49
143038	00650E	00025.00N	56768.82	57356.05	99	0000N	24.8	-19.9	18.9	48	-10	12.19	22.3	-40.6	3.7	69	11	2.41
143126	00650E	00012.50N	59657.48	60244.57	88	0000N	24.8	-10.6	16.2	108	-17	13.47	22.3	-42.6	3.9	73	10	2.53
143722	00650E	00000.00N	57450.86	58036.52	99	0000N	24.8	-23.9	16.6	51	2	12.73	22.3	-44.7	7.1	77	11	2.67
143914	00675E	00000.00S	57102.49	57686.86	99	0000N	24.8	-10.8	7.9	51	-12	13.15	22.3	28.8	2.4	73	6	2.51
144002	00675E	00012.50N	57095.07	57678.66	99	0000N	24.8	-16	10.8	50	-9	12.76	22.3	43	-0.3	79	10	2.73

TIME	LINE	STATION	UNCORR. MAG. FIELD (nT)	CORR. MAG. FIELD (nT)		SLOPE	1ST VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)	2ND VLF STN FREQ.	VERT. IN-PHASE COMPONENT	VERT. OUT OF PHASE COMP.	X-HORIZ. AMPL.	Y-HORIZ. AMPL.	VLF TTL FIELD STRENGTH (pT)
144034	00675E	00025.00N	57104.17	57687.1	99	0000N	24.8	-16	10.5	50	-9	12.75	22.3	44.7	-4.4	75	9	2.6
144118	00675E	00037.50N	57101.98	57694.13	99	0000N	24.8	-15.9	8.3	49	-7	12.19	22.3	38.6	1.1	75	8	2.58
144206	00675E	00050.00N	57120.87	57703.06	99	0000N	24.8	-21.5	7.9	106	7	13.16	22.3	41.5	-2.8	72	3	2.48
144314	00675E	00062.50N	57157.88	57739.22	99	0000N	24.8	-19.9	9.9	55	0	13.71	22.3	44.5	2.3	76	4	2.62
144514	00675E	00075.00N	57111.44	57692.98	99	0000N	24.8	-14.9	10.1	55	-8	13.91	22.3	42.9	-1.7	74	10	2.57
144610	00675E	00087.50N	57163.81	57745.31	99	0000N	24.8	-16.7	9	55	-8	13.78	22.3	41.9	0	74	4	2.54
144642	00675E	00100.00N	57198.57	57780.44	99	0000N	24.8	-14.4	10	56	-7	13.95	22.3	42.2	-0.6	73	6	2.53
144718	00675E	00112.50N	57371.58	57953.64	99	0000N	24.8	-12.2	11.9	58	0	14.44	22.3	44.5	0.9	75	7	2.59
144758	00675E	00125.00N	57241.84	57823.99	99	0000N	24.8	-7.4	14.1	55	-12	13.98	22.3	45.3	2.1	79	10	2.73
144834	00675E	00137.50N	57383.3	57965.62	99	0000N	24.8	-4.9	12	54	-7	13.5	22.3	45.1	-1.2	80	6	2.77
144858	00675E	00150.00N	57654.84	58237.09	99	0000N	24.8	-7.5	11.1	54	-3	13.47	22.3	43.5	2.2	71	7	2.46
145154	00675E	00162.50N	57665.01	58148.2	99	0000N	24.8	-9.3	12.1	52	0	12.87	22.3	46.9	0.1	81	7	2.79
145350	00675E	00175.00N	57411.96	57995.6	99	0000N	24.8	-5.5	11.3	53	-2	13.19	22.3	46.2	-2.9	83	8	2.88
145418	00675E	00187.50N	57430.57	58014.41	99	0000N	24.8	-4.8	9.2	50	-8	12.68	22.3	42.6	1.6	77	9	2.66
145446	00675E	00200.00N	57415.17	57999.01	99	0000N	24.8	-3.9	8.3	50	-10	12.78	22.3	44.4	-2.4	78	6	2.7
145514	00675E	00212.50N	57448.16	58031.97	99	0000N	24.8	-4.8	7	50	-9	12.65	22.3	46.5	0.5	77	10	2.65
145546	00675E	00225.00N	57514.26	58097.99	99	0000N	24.8	-6.9	7.1	51	-6	12.68	22.3	44.4	2.6	76	10	2.63
145634	00675E	00237.50N	57510.46	58094.23	99	0000N	24.8	-3.7	4.7	46	-13	11.87	22.3	39.9	-0.8	78	10	2.7
145734	00675E	00250.00N	57390.93	57974.18	99	0000N	24.8	-6.8	6	98	-11	12.18	22.3	40.4	-0.9	75	10	2.6
145830	00675E	00262.50N	57320.16	57903.34	99	0000N	24.8	-5.4	2.7	50	-12	12.73	22.3	41.8	-2	79	9	2.75
145934	00675E	00275.00N	57346.8	57929.91	99	0000N	24.8	-11.5	2.4	49	-7	12.28	22.3	47	-1.2	76	7	2.61
150042	00675E	00287.50N	57179.09	57761.87	99	0000N	24.8	-11.3	1.6	100	-10	12.37	22.3	41	-1.2	78	10	2.71
150126	00675E	00300.00N	57222.21	57804.72	99	0000N	24.8	-14.9	1.4	49	-4	12.28	22.3	45.6	0.2	77	10	2.66
150318	00675E	00312.50N	57289.57	57872.23	99	0000N	24.8	-11.1	0	100	-10	12.46	22.3	42.9	-1.2	84	12	2.93
150402	00675E	00325.00N	57266.56	57849.31	99	0000N	24.8	-15.1	1.1	52	-1	12.98	22.3	45.4	1.2	76	6	2.64
150446	00675E	00337.50N	57226.4	57809.25	99	0000N	24.8	-12.6	0.2	50	-4	12.47	22.3	43.8	0.9	73	6	2.52
150522	00675E	00350.00N	57211.73	57794.63	99	0000N	24.8	-11	-1.8	48	-9	12.16	22.3	41.2	2.4	78	9	2.7
150602	00675E	00362.50N	57205.1	57787.72	99	0000N	24.8	-11.3	-2.8	98	-11	12.24	22.3	41.8	-0.1	80	9	2.78
150634	00675E	00375.00N	57246.91	57829.23	99	0000N	24.8	-12.9	-3.8	51	-8	12.91	22.3	44	-0.6	75	9	2.59
150706	00675E	00387.50N	57235.13	57817.22	99	0000N	24.8	-10.6	-4.7	49	-8	12.48	22.3	42.3	-1.9	80	7	2.76
150738	00675E	00400.00N	57270.06	57851.87	99	0000N	24.8	-13.1	-6.3	100	-9	12.45	22.3	40.7	-1.6	75	6	2.58
152034	00700E	00000.00N	57077.22	57655.94	99	0000N	24.8	14.8	-6.4	100	0	12.41	22.3	-31.8	-2	79	9	2.73
152218	00700E	00012.50N	57107.58	57685.38	99	0000N	24.8	-15.8	5.9	50	-1	12.31	22.3	35.1	0.8	89	9	3.09
152250	00700E	00025.00N	57122.65	57700.05	99	0000N	24.8	-17	5.9	104	0	12.82	22.3	36.8	-0.1	83	4	2.85
152322	00700E	00037.50N	57147.42	57724.51	99	0000N	24.8	-20	7.7	52	0	12.79	22.3	33	1.8	71	3	2.44
152354	00700E	00050.00N	57141.58	57718.27	99	0000N	24.8	-18.5	6.6	54	0	13.36	22.3	41.7	0.6	71	5	2.44
152426	00700E	00062.50N	57152.49	57729.01	99	0000N	24.8	-16.9	6.6	52	0	12.93	22.3	39.6	-0.7	74	5	2.54
152458	00700E	00075.00N	57178.26	57754.84	99	0000N	24.8	-14.7	7.6	53	-4	13.15	22.3	39.1	1.9	74	8	2.57
152534	00700E	00087.50N	57221.91	57798.15	99	0000N	24.8	-15.1	7.4	57	0	14.18	22.3	41.8	0.4	72	6	2.49
152558	00700E	00100.00N	57305.78	57882.05	99	0000N	24.8	-16.3	11	54	-2	13.45	22.3	44.5	0.6	70	4	2.42
152626	00700E	00112.50N	57493.57	58069.79	99	0000N	24.8	-20.8	12	51	6	12.76	22.3	46.9	0.3	63	2	2.17
152654	00700E	00125.00N	57572.5	58148.51	99	0000N	24.8	-9.1	13.4	55	-5	13.78	22.3	46.2	-0.4	67	6	2.32
152730	00700E	00137.50N	57513.32	58089.06	99	0000N	24.8	-6.4	11.9	53	-1	13.27	22.3	43.4	4.1	72	7	2.49
152802	00700E	00150.00N	57497.14	58072.38	99	0000N	24.8	-8.6	12.6	52	-7	12.95	22.3	49.6	3	68	3	2.36
152834	00700E	00162.50N	57472.41	58047.47	99	0000N	24.8	-11.2	10	52	-4	12.84	22.3	46	5.4	64	6	2.2
152914	00700E	00175.00N	57424.29	57999.01	99	0000N	24.8	-10.5	8.1	51	-1	12.78	22.3	43.9	-0.4	66	5	2.28
152942	00700E	00187.50N	57366.98	57941.4	99	0000N	24.8	-9.2	6.4	52	-5	12.99	22.3	40	-0.4	67	7	2.31
153014	00700E	00200.00N	57347.29	57921.65	99	0000N	24.8	-6.7	8.2	51	-7	12.85	22.3	45.2	-0.4	68	6	2.36
153054	00700E	00212.50N	57329.86	57904.66	99	0000N	24.8	-13.6	9	50	-6	12.48	22.3	45.8	2	70	8	2.41
153130	00700E	00225.00N	57288.31	57862.32	99	0000N	24.8	-5.4	5.5	51	-9	12.82	22.3	42.1	0.2	71	3	2.43
153202	00700E	00237.50N	57304.87	57879.17	99	0000N	24.8	-8.2	4.7	51	0	12.68	22.3	39	1.2	75	3	2.56
153238	00700E	00250.00N	57304.33	57878.9	99	0000N	24.8	-18.5	3	49	1	12.22	22.3	45.6	3	70	8	2.42
153326	00700E	00262.50N	57302.91	57878.08	99	0000N	24.8	-12.7	0.9	98	-9	12.18	22.3	38.4	1.1	72	4	2.46
153410	00700E	00275.00N	57170.98	57745.97	99	0000N	24.8	-12.5	1.3	53	-5	13.11	22.3	44.7	0.9	68	5	2.34
153506	00700E	00287.50N	57256.3	57830.53	99	0000N	24.8	-11.8	0.2	50	-5	12.39	22.3	40.3	-2.5	74	9	2.56
153546	00700E	00300.00N	57349.37	57922.99	99	0000N	24.8	-10.7	0.7	102	-21	12.93	22.3	41.6	-0.5	70	7	2.42
153614	00700E	00312.50N	57311.71	57884.55	99	0000N	24.8	-10.9	0.8	52	-6	12.96	22.3	41.5	1.5	69	4	2.39
153646	00700E	00325.00N	57289.38	57861.77	99	0000N	24.8	-11.6	1.1	52	-3	13.01	22.3	49.3	0.4	71	6	2.44
153722	00700E	00337.50N	57257.89	57829.91	99	0000N	24.8	-8.2	0.1	49	-14	12.62	22.3	44.7	-1	70	9	2.44
153754	00700E	00350.00N	57239.06	57810.59	99	0000N	24.8	-11.6	-1.3	101	-16	12.66	22.3	44.1	-2.9	70	7	2.42
153822	00700E	00362.50N	57221.24	57792.54	99	0000N	24.8	-13.6	-1.7	49	-11	12.58	22.3	45	-1.2	71	6	2.46
153858	00700E	00375.00N	57278.45	57849.89	99	0000N	24.8	-13.9	-2.9	101	-17	12.68	22.3	46	-3.4	67	8	2.31
153930	00700E	00387.50N	57241.82	57813.62	99	0000N	24.8	-12.8	-1.8	49	-14	12.59	22.3	43	0	68	12	2.37
154002	00700E	00400.00N	57241	57812.81	99	0000N	24.8	-12.4	-3.6	107	-13	13.35	22.3	43.2	-2.3	72	5	2.47
154034	00700E	00412.50N	57217.41	57788.58	99	0000N	24.8	-10.7	-2.7	51	-10	12.9	22.3	40.6	-2.1	65	8	2.27
154102	00700E	00425.00N	57236.53	57807.15	99	0000N	24.8	-9.9	-2.9	51	-12	13.13	22.3	41.1	-0.4	66	7	2.3
154134	00700E	00437.50N	57235.55	57805.73	99	0000N	24.8	-9.2	-4.5	50	-11	12.82	22.3	44.7	-3.6	67	6	2.33
154202	00700E	00450.00N	57231.78	57801.83	56	0000N	24.8	-9.5	-4	50	-10	12.66	22.3	45.6	-4.8	66	5	2.27
154230	00700E	00462.50N	57233.57	57803.45	99	0000N	24.8	-10.7	-5.2	51	-7	12.78	22.3	41.8	-1.8	62	5	2.15
154302	00700E	00475.00N	57251.33	57821.45	99	0000N	24.8	-11.5	-6.8	50	-7	12.62	22.3	43.2	-3.6	63	3	2.19
154330	00700E	00487.50N	57277.72	57847.4	99	0000N	24.8	-11.8	-5.9	50	-8	12.5	22.3	45	-5.5	62	5	2.15
154358	00700E	00500.00N	57247.76	57817.07	99	0000N	24.8	-9.2	-6.6	51	-9	12.84	22.3	40.9	-6.1	63	6	2.16
154426	00700E	00512.50N	57245.92	57814.97	99	0000N	24.8	-10.1	-6.7	52	-8	13.11	22.3	37.7	-2.7	63	6	2.16
154506	00700E	00525.00N	57281.75	57850.9	99	0000N	24.8	-4.7	-7.5	49	-18	12.98	22.3	43.5	-6.2	64	5	2.21
154558	00700E	00537.50N	57241.33	57810.36	99	0000N	24.8	-8	-6.6	100	-22	12.68	22.3	38.8	-1.8	64	6	2.22

APPENDIX II

ANALYTICAL CERTIFICATES

Mineral Enviro[illegible]ents Laboratories
8282 Sherbrooke St., [illegible]ncouver, B.C., V5X 4E8
Tel (604) 327-3436 Fax (604) 327-3423

MR. ALL[illegible] ST. JAMES
Attention: Allan St. James
Project: QUILL
Sample: ROCK

Report No : 8S0036
Date : Jul-10-98

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au-wet ppb
SJ-01	>100.0	0.89	55	20	1.5	<5	4.89	>100	20	55	2640	4.06	0.29	1.36	620	<2	0.02	15	1100	>10000	870	8	<10	210	<0.01	38	60	8	>10000	3	65
SJ-04	<0.2	0.55	15	20	<0.5	15	0.50	<1	204	10	2202	>15.00	0.03	0.36	275	<2	0.02	59	780	76	10	<1	<10	10	0.03	71	<10	<1	64	22	35
SJ-05	0.4	1.05	5	60	<0.5	<5	0.12	2	14	22	283	>15.00	0.10	0.69	220	<2	0.03	10	1210	100	10	2	<10	11	0.27	145	<10	<1	144	18	10
SJ-06	0.2	1.47	5	140	<0.5	<5	5.34	<1	18	42	138	5.02	0.06	1.94	710	<2	0.05	24	1310	12	5	10	<10	75	<0.01	106	<10	7	59	4	10
SJ-07	<0.2	2.50	5	40	0.5	<5	0.83	1	42	32	97	4.86	0.06	2.05	580	6	0.03	23	910	10	<5	14	<10	41	0.07	137	<10	11	113	7	5
SJ-08	<0.2	1.55	<5	30	<0.5	<5	0.54	<1	23	39	43	5.97	0.09	1.77	455	4	0.05	14	1270	8	5	4	<10	25	0.16	96	<10	3	75	5	10
SJ-09	29.2	0.55	55	10	<0.5	<5	0.57	4	43	86	>10000	10.47	0.03	0.43	230	<2	0.02	9	940	64	5	1	<10	11	<0.01	24	<10	1	150	7	>10000
SJ-10	<0.2	2.20	5	40	0.5	<5	1.05	<1	41	16	139	3.83	0.05	1.28	610	8	0.03	14	950	2	5	7	<10	58	0.03	84	<10	8	42	5	100
SJ-13	<0.2	1.08	<5	30	<0.5	<5	0.59	<1	7	38	164	2.66	0.07	0.93	330	22	0.05	3	1280	4	<5	2	<10	33	0.12	53	<10	3	81	4	35
SJ-14	<0.2	1.06	<5	20	<0.5	<5	0.48	<1	6	17	82	2.83	0.08	0.86	310	4	0.05	2	870	6	<5	1	<10	27	0.11	53	<10	2	43	4	10
SJ-15	<0.2	1.10	<5	40	<0.5	<5	0.60	<1	7	20	124	3.52	0.09	0.90	335	34	0.05	2	1330	8	<5	2	<10	46	0.20	75	<10	3	98	4	20
SJ-16	<0.2	3.16	5	30	<0.5	<5	1.59	<1	32	56	307	5.83	0.17	2.53	970	<2	0.07	33	1030	10	<5	4	<10	53	0.22	148	<10	7	89	8	5
SJ-17	<0.2	0.38	15	20	<0.5	<5	0.32	<1	4	159	45	1.50	0.02	0.47	385	2	0.02	8	70	6	5	<1	<10	4	0.01	11	<10	2	109	2	65
SJ-18	<0.2	0.96	45	50	<0.5	<5	0.19	<1	7	36	45	5.41	0.22	0.95	310	4	0.02	4	1160	10	<5	1	<10	3	0.02	25	<10	2	19	4	265
SJ-19	<0.2	0.64	20	30	<0.5	<5	0.25	<1	8	98	21	4.69	0.08	0.73	595	2	0.02	10	160	8	5	<1	<10	5	0.01	17	<10	2	41	4	275
SJ-20	<0.2	1.17	5	30	<0.5	<5	0.79	<1	25	44	62	4.45	0.07	0.96	300	2	0.06	13	1040	12	<5	2	<10	32	0.13	52	<10	2	55	5	10
SJ-21	<0.2	2.09	<5	20	<0.5	<5	1.56	<1	26	35	21	4.09	0.08	2.96	1085	<2	0.03	18	1750	4	<5	4	<10	30	0.13	96	<10	4	112	5	50
SJ-22	<0.2	1.74	<5	10	<0.5	<5	0.81	<1	23	58	218	6.67	0.05	1.36	375	<2	0.03	22	950	8	<5	3	<10	33	0.18	85	<10	5	29	6	5
AD-52	<0.2	0.94	15	60	0.5	<5	0.88	<1	5	47	17	1.78	0.13	0.79	225	8	0.02	6	470	16	<5	1	<10	15	0.07	13	<10	12	111	5	5
JA-13	<0.2	1.21	45	50	<0.5	<5	0.19	<1	11	38	92	4.66	0.18	1.17	735	66	0.03	3	820	8	<5	2	<10	8	0.08	49	<10	5	34	4	865
JA-14	<0.2	1.08	30	60	<0.5	<5	0.15	<1	11	31	65	5.85	0.22	1.02	675	18	0.02	4	1100	10	<5	2	<10	3	0.09	35	<10	4	67	5	635
JA-15	<0.2	1.10	50	60	<0.5	<5	0.25	<1	11	39	47	5.04	0.26	1.02	540	14	0.03	6	1220	6	5	2	<10	3	0.07	30	<10	5	24	5	1595
JA-16	<0.2	0.71	20	40	<0.5	<5	0.61	<1	8	106	27	4.70	0.15	0.70	495	2	0.03	8	460	6	<5	1	<10	11	0.02	19	<10	3	19	4	960
JA-17	<0.2	1.67	<5	40	<0.5	<5	0.58	<1	11	35	69	3.17	0.07	1.56	645	4	0.04	4	930	2	<5	3	<10	39	0.13	74	<10	4	62	5	40
JA-18	<0.2	0.46	<5	720	1.0	<5	0.09	1	1	88	31	1.18	0.06	0.11	360	<2	0.12	6	40	12	<5	<1	<10	21	<0.01	2	<10	9	177	124	10
JA-19	<0.2	1.48	<5	10	<0.5	<5	6.38	<1	3	113	7	2.28	0.03	1.56	925	2	0.02	21	310	<2	<5	2	<10	95	<0.01	46	<10	1	45	2	5
JA-20	0.2	0.19	30	20	0.5	<5	5.14	<1	4	173	47	1.57	0.06	0.47	975	2	0.02	21	210	64	5	2	<10	101	<0.01	8	<10	2	132	2	5
JA-21	<0.2	0.33	<5	10	<0.5	<5	0.04	<1	2	200	8	0.74	0.02	0.31	270	2	0.02	11	80	<2	<5	<1	<10	1	<0.01	10	<10	1	16	1	10
JA-22	<0.2	1.75	5	30	<0.5	<5	1.97	<1	11	142	73	3.51	0.10	1.67	680	<2	0.02	40	1320	2	5	3	<10	27	<0.01	50	<10	2	61	3	5
JA-23	<0.2	2.32	<5	180	1.0	<5	2.01	<1	15	68	92	4.24	0.11	2.34	3300	<2	0.02	36	1000	<2	5	4	<10	42	<0.01	54	<10	8	208	6	5

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3
at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:_____

MR. ALLAN ST. JAMES
Attention: Allan St. James
Project: QUILL
Sample: ROCK

Mineral Environments Laboratories
8282 Sherbrooke St., Vancouver, B.C., V5X 4E8
Tel (604) 327-3436 Fax (604) 327-3423

Report No : 8S0036
Date : Jul-10-98

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au-wet ppb
JA-24	<0.2	1.33	<5	30	<0.5	<5	1.72	<1	11	47	24	2.29	0.04	1.05	510	2	0.05	4	1190	<2	<5	2	<10	48	0.13	53	<10	5	47	5	5

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3 at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:

MINERAL
ENVIRONMENTS
LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
8282 SHERBROOKE STREET
VANCOUVER, BC, CANADA V5X 4E8
TELEPHONE (604) 327-3436
FAX (604) 327-3423

SMITHERS LAB:
3176 TATLOW ROAD
SMITHERS, BC, CANADA V0J 2N0
TELEPHONE (250) 847-3004
FAX (250) 847-3005

Quality Assaying for over 25 Years

Assay Certificate

8S-0036-PA1

Company: **MR. ALLAN ST. JAMES**
Project: QUILL
Attn: Allan St. James

Jul-15-98

We *hereby certify* the following Assay of 5 PULP samples submitted Jul-02-98 by ALLAN ST JAMES.

Sample Name	Au-fire g/tonne	Ag g/tonne	Cu %	Pb %	Zn %
SJ-01		425.0	0.387	2.01	3.01
SJ-09	* 102.00	36.5	5.320	0.01	0.01
JA-13	0.97				
JA-15	1.55				
JA-16	0.88				

* GRAVIMETRIC FINISH

Certified by _____

Min-En Laboratories

October 7, 1998

Allan St. James
c/o Centauro Resources
709-700 West Pender Street
Vancouver, B.C. V6C 1G8

Re: August Property Exam of Quill Property (NTS: 104B7/8)

Dear Mr. St. James,

Thank you for allowing Homestake to revisit your property. Due to the low snow levels this year we were able to locate several quartz veins in outcrop that were under snow when Ms. Erdman visited the property last year. Although the Au results from the veins in outcrop and from the float samples are impressive, Homestake cannot offer you an option at this time.

Please find attached: a statement of costs incurred during our property visit, a list of sample descriptions and UTM locations, maps showing sample locations, and the sample results.

Sincerely,

Marcela S. Vaskovic

Marcela S. Vaskovic
Project Geologist

Enclosure: 11 pages

cc: G. Gulajec - Land Manager, Homestake
D. Kuran - Senior Geologist

Homestake Canada Inc.

P.O. Box 11115 • 1100 - 1055 West Georgia Street • Vancouver, BC V6E 3P3 • Phone (604) 684-2345 • Fax: (604) 684-9831

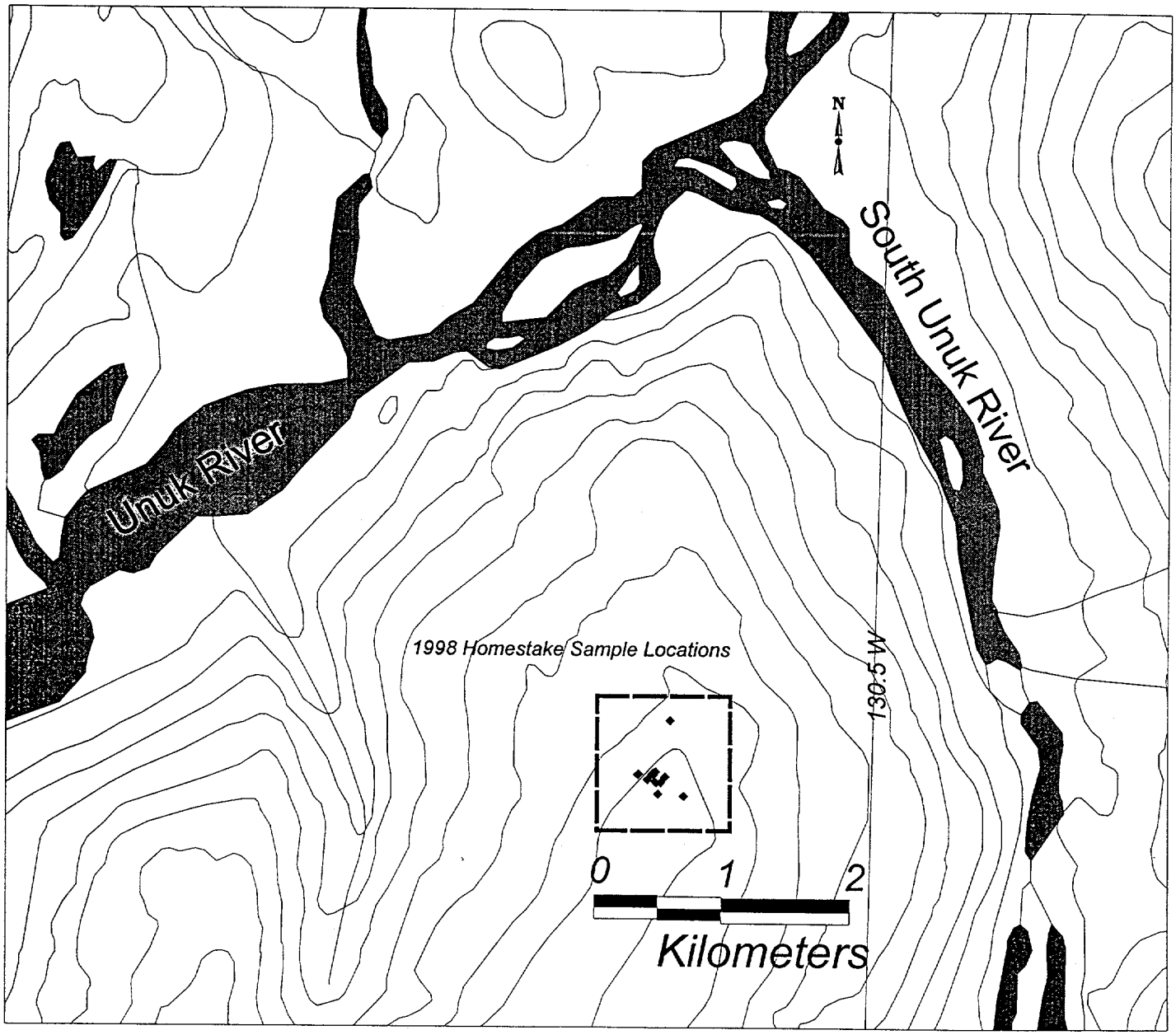
HOMESTAKE

Statement of Costs

Quill Property Exam August 29, 1998
Completed by M. Vaskovic, Project Geologist Homestake Canada Inc.

Wages M. Vaskovic 1 day		$338.00
Wages C. Huggins 1 day (geologist)		$263.00
Wages R.B. Anderson 1 day (prospector)		$263.00
Food and accomodation 3 person days		$150.00
Helicopter (0.9 hours)		$627.05
Analyses 18 rocks (ICP+3 AuGrav+2 CuOL)		$345.98
Shipping samples to lab		$ 50.00
	Total	**$2037.03**

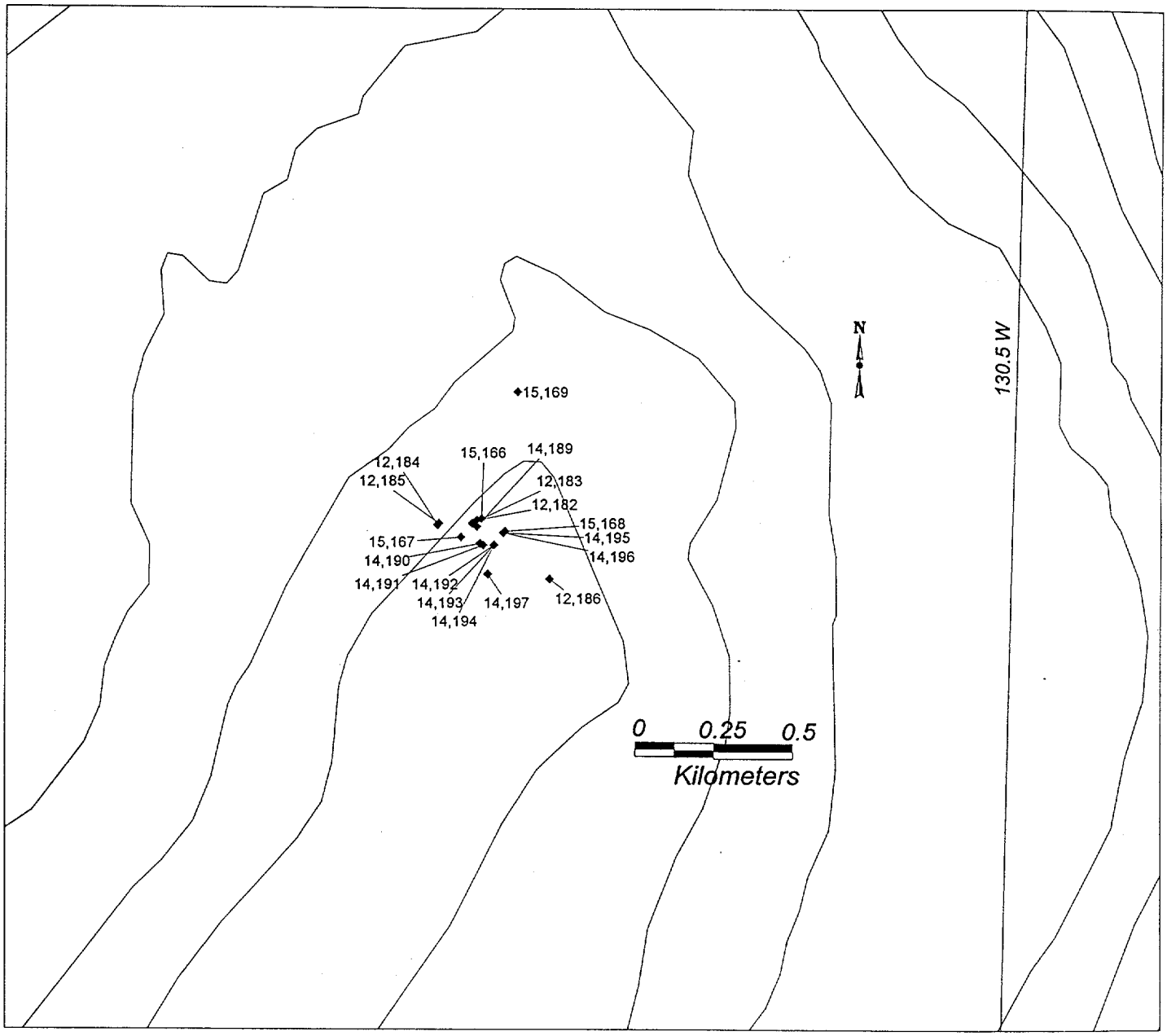
Quill Property
1998 Sample Location Map
1 : 50 000

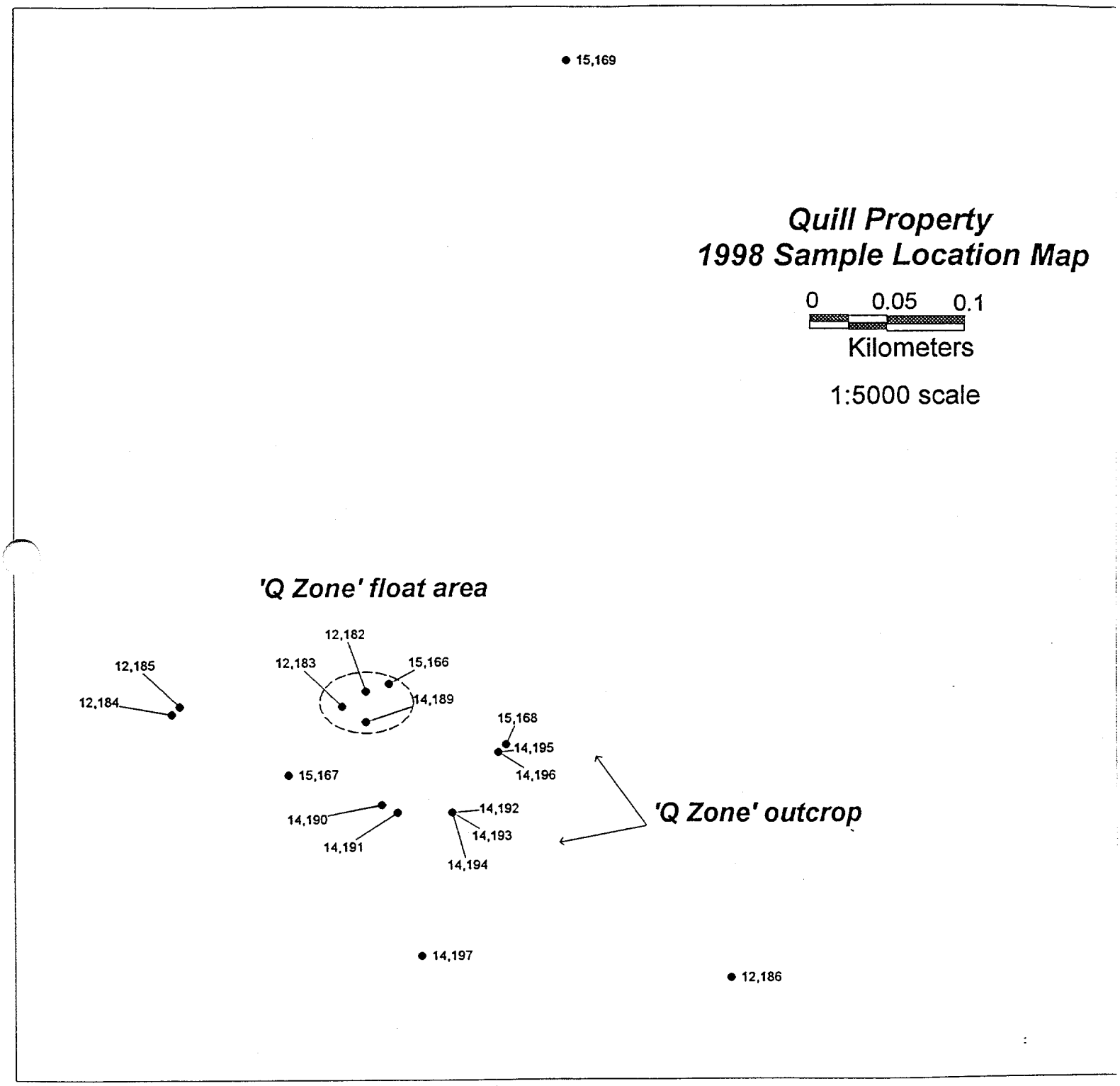


Quill Property

1998 Sample Location Map

1 : 20 000




15,169
Quill Property
1998 Sample Location Map
0
0.05
0.1
Kilometers
1:5000 scale
'Q Zone' float area
12,182
12,183
15,166
12,185
12,184
14,189
15,168
14,195
14,196
15,167
14,190
14,191
14,192
14,193
14,194
'Q Zone' outcrop
14,197
12,186

Property	Sample No	UTM N	UTM E	Sample Type	Length	Rock Type	Vein	Colour	Texture 1	Texture 2	Alteration 1
Quill	12182	6253955	405765	grab		andesite		dark grey	breccia	fine grained	epidote
Quill	12183	6253945	405750	grab		andesite		blue grey	breccia	fine grained	silicic
Quill	12184	6253940	405640	grab		unknown		white	fine grained		silicic
Quill	12185	6253945	405645	grab		unknown		white	fine grained		silicic
Quill	12186	6253765	406000	grab		diorite	pyrite	light green	fractured		chlorite
Quill	14189	6253935	405765	chip	1.5	andesite		light grey green	fine grained	tuff	chlorite
Quill	14190	6253880	405775	grab		diorite		white	sheared		silicic
Quill	14191	6253875	405785	grab		diorite	qtz-py				silicic
Quill	14192	6253875	405820	grab		diorite	qtz-py				chlorite
Quill	14193	6253875	405820	grab		diorite	quartz				quartz
Quill	14194	6253875	405820	chip	1.5	diorite	calcite	med grey	sheared		chlorite
Quill	14195	6253915	405850	grab		diorite	quartz		veined		chlorite
Quill	14196	6253915	405850	chip	1	diorite		med grey			
Quill	14197	6253780	405800	grab		diorite					gossanous
Quill	15166	6253960	405780	float		diorite	quartz	white			manganese
Quill	15167	6253900	405715	chip	1 m	diorite		light grey	fractured	porphyrytic	silicic
Quill	15168	6253920	405855	float		diorite	quartz	white			
Quill	15169	6254375	405895	grab		diorite	quartz	light green	porphyrytic	med grained	epidote

Sample No	Occurrence 1	Alteration 2	Occurrence 2	Alteration 3	Occurrence 3	Alteration 4	Occurrence 4	Mineral	Occurrence	Min %
12182	stringers							pyrite	diss, stingers	10
12183	pervasive	calcite	patchy					pyrite	disseminated	5
12184	pervasive, str							pyrite	disseminated	20
12185	pervasive, str							pyrite	disseminated	20
12186	pervasive, mod	epidote	local					pyrite	stringers	5
14189	pervasive, mod	calcite	fracture fill					pyrite	fracture fill	1-2
14190		clay						pyrite	disseminated	1-2
14191		gossanous		limonite				pyrite	vein	2-5cm
14192	pervasive	calcite	vein					chalcopyrite	vein	2-5
14193	vein	chlorite	vein	calcite	vein			chalcopyrite	vein	2-5
14194	pervasive							pyrite	disseminated	2-4
14195	vein	calcite	selvages					chalcopyrite	vein	10-15
14196								pyrite	disseminated	2-4
14197								pyrite	disseminated	5-7
15166	fracture fill							chalcopyrite	vein	5
15167	pervasive, str	epidote	fracture fill	manganese	fracture fill	chlorite	spotty	pyrite	disseminated	5
15168								chalcopyrite	vein	5
15169	pervasive, mod	quartz	veinlets	chlorite	spotty	limonite	fracture fill	pyrite	disseminated	5

Sample No	Magnetic	Attitude type	Strike	Dip
12182			0	0
12183			0	0
12184			0	0
12185			0	0
12186			350	40
14189		cleavage	304	75
14190			0	0
14191			330	0
14192			0	0
14193			0	0
14194		cleavage	120	0
14195			50	0
14196	moderate		0	0
14197			350	0
15166			0	0
15167	non	foliation	65	90
15168			0	0
15169	non		0	0

Sample No	Comments
12182	brecciated andesite flow containing clasts of diorite. Min is patchy over 2m exposure. Grid 200N, 550E
12183	sample contains quartz stringers.□□Grid 200N, 550E
12184	possibly altered sediment; grid 100N, 450E
12185	possibly altered sediment., same outcrop as 12184, sampled 5m away. Grid 100N, 450E
12186	1m wide shear with 3cm wide py vein , 30cm mineralized zone within shear.
14189	outcrop in creek, just above 'showing' area□□grid 175N, 550E
14190	strongly sheared diorite from 5m underneath glacier, approx. 330 deg. strike□□grid 150N, 585E
14191	strongly sheared zone with 2-5cm pyrite/limonite vein, 5m upstrike from 14190 underneath glacier□□grid 150N, 600E
14192	footwall to qtz vein, 0.5x2m exposed, strongly sheared zone
14193	sample of 2-14cm wide quartz vein with 2-5%cpy, 1-3%py blebs, and frac fill. 4m strike exposed, variable width, avg 4cm.
14194	hangingwall to quartz vein, mineralisation dies >0.7m from vein□□grid 175N, 625E
14195	5-50cm quartz vein with up to 2cm wide cpy veins, and 2-5% py, 3m strike exposed, then truncated and poorly exposed; grid 190N, 650E
14196	wallrock adjacent to qtz-cpy vein, strongly fractured□□grid 190N, 650E
14197	1x3m gossanous zone, adjacent to strongly sheared rocks. Up strike from samples 14190,91□□grid 100N, 675E
15166	angular quartz vein float from at Q showing; chalcopyrite and pyrite (2%) in vein, trace malachite
15167	sheared fractured diorite, disseminated and fracture fill pyrite throughout
15168	6 cm wide quartz vein in chloritic pyritic fine grained wallrock; sample is 50/50 vein/wallrock; only vein has cpy
15169	quartz veinlets in diorite; pyrite in qv, along fractures and disseminated; possibly trace specks chalcopyrite in veinlets

Sample ID	Au30	AuGrav	Ag	Cu	CuOL	Pb	Zn	ZnOL	Mo	Ni	Co	Cd	Bi
12182	7	-9	-0.2	42	-9	4	30	-9	2	16	25	-0.2	-5
12183	9	-9	0.5	8	-9	6	159	-9	1	9	7	1.3	-5
12184	12	-9	-0.2	6	-9	3	12	-9	17	6	40	-0.2	-5
12185	61	-9	-0.2	16	-9	5	38	-9	11	12	63	-0.2	-5
12186	13	-9	0.3	517	-9	-2	118	-9	5	26	102	-0.2	-5
14189	-5	-9	-0.2	45	-9	-2	190	-9	-1	2	6	1	-5
14190	-5	-9	-0.2	86	-9	-2	19	-9	2	2	8	-0.2	-5
14191	21	-9	0.2	35	-9	6	33	-9	3	12	33	-0.2	-5
14192	5446	-9	1.9	2176	-9	-2	54	-9	3	18	24	0.4	-5
14193	10000	34.12	3	1221	-9	4	19	-9	1	5	12	-0.2	-5
14194	74	-9	0.3	171	-9	4	59	-9	1	17	23	-0.2	-5
14195	10000	24.91	18.4	10000	5	-2	94	-9	-1	3	30	2.9	-5
14196	104	-9	-0.2	189	-9	-2	46	-9	1	3	11	-0.2	-5
14197	18	-9	0.3	55	-9	4	96	-9	2	22	34	0.4	-5
15166	10000	30.01	7.2	10000	1	20	16	-9	2	6	50	0.4	-5
15167	42	-9	-0.2	71	-9	-2	51	-9	2	5	17	-0.2	-5
15168	2033	-9	23.1	10000	4.5	-2	108	-9	1	-1	10	1.8	-5
15169	69	-9	-0.2	121	-9	-2	56	-9	4	2	10	-0.2	-5

Sample ID	As	Sb	Hg	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al
12182	-5	-5	0.016	4.39	298	-10	12	20	45	-20	-20	1	1.15
12183	-5	-5	-0.01	5.21	1576	-10	109	11	23	-20	-20	-1	0.82
12184	22	-5	-0.01	10	43	-10	12	21	28	-20	-20	-1	1.29
12185	23	-5	0.018	10	280	-10	7	17	73	-20	-20	-1	1.8
12186	6	-5	0.013	10	1457	-10	9	24	140	-20	-20	-1	3.57
14189	33	-5	0.056	3.04	641	-10	129	9	24	-20	-20	2	1.39
14190	13	-5	-0.01	2.08	326	-10	85	13	30	-20	-20	4	1.31
14191	28	-5	0.072	10	358	-10	6	10	83	-20	-20	-1	1.66
14192	21	-5	0.044	5.97	1480	-10	57	43	76	-20	-20	-1	2.19
14193	31	-5	0.045	3.07	1013	-10	39	62	18	-20	-20	-1	0.6
14194	5	-5	0.013	4.35	1508	-10	49	31	84	-20	-20	-1	2.25
14195	12	-5	0.109	9.45	216	13	6	56	18	-20	-20	-1	0.58
14196	-5	-5	-0.01	5.63	814	-10	59	11	103	-20	-20	3	2.36
14197	69	-5	0.055	7.73	641	-10	19	45	120	-20	-20	-1	2.14
15166	173	-5	0.099	10	406	-10	2	69	4	-20	-20	-1	0.27
15167	35	-5	0.031	4.17	493	-10	64	36	37	-20	-20	2	1.6
15168	5	-5	0.136	7.64	576	-10	21	12	58	-20	-20	2	1.6
15169	11	-5	-0.01	3.12	461	-10	53	25	51	-20	-20	2	1.59

Sample ID	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
12182	0.87	0.99	0.07	0.05	36	3	-2	4	-1	-5	-10	0.11	-1
12183	2.12	7.05	0.02	0.2	136	10	-2	3	-1	-5	-10	-0.01	-1
12184	0.07	1.9	0.07	0.11	12	2	-2	-1	-1	-5	-10	0.12	3
12185	1.1	1.24	0.06	0.1	14	2	-2	6	-1	-5	-10	0.14	2
12186	3.89	0.64	0.03	0.03	32	4	5	14	-1	6	-10	0.27	-1
14189	1.03	2.31	0.04	0.16	39	6	3	4	-1	-5	-10	-0.01	-1
14190	0.88	0.73	0.11	0.11	48	7	3	3	-1	-5	-10	0.13	2
14191	1.62	0.38	0.03	0.1	21	2	-2	5	-1	7	-10	0.21	1
14192	2.02	7.26	0.02	0.15	202	5	3	9	-1	8	-10	0.02	-1
14193	0.53	5.62	0.01	0.04	167	3	-2	2	-1	-5	-10	-0.01	-1
14194	1.99	5.89	0.06	0.14	170	6	4	8	-1	7	-10	0.07	-1
14195	0.37	0.75	0.02	0.06	13	2	-2	2	-1	-5	12	-0.01	-1
14196	1.68	3.91	0.03	0.19	55	8	3	9	5	6	-10	0.05	-1
14197	2.05	1.18	0.05	0.1	51	5	-2	9	5	9	-10	0.24	4
15166	0.17	2.16	-0.01	0.03	49	4	-2	1	3	-5	-10	-0.01	-1
15167	1.06	0.58	0.06	0.14	38	4	2	4	-1	-5	-10	0.08	-1
15168	1.14	0.59	0.05	0.09	9	6	4	6	-1	-5	12	0.1	-1
15169	1.14	1.19	0.07	0.05	62	6	3	3	-1	-5	-10	0.18	-1

△SJ-16 (200m toNE in creek)

Windy Tarn Showing

SJ-13
SJ-15
SJ-14

JA-18
JA-19
JA-20-21
JA-22

JA-13 to 17
SJ-17-18-19

▲JA-23

JA-24

Pond

△AP-52

▲SJ-22 (800m SE on ridge top)

SJ-07
SJ-10
SJ-09
SJ-20
Q-zone
SJ-08
SJ-01
stream

SJ-06
SJ-04-05

▲SJ-21 (200m SE on ridge top)

LEGEND

4 – Dyke – diorite to gabbro

3 – Diorite – a) fine to medium grained, hornblende diorite
b) hybrid; calcic; diopside and tremolite
c) containing small xenolithic blocks
d) hornblende porphyry
e) hybrid

2 – Xenolith – large blocks of recrystallized sed. or volc.

1 Hornfels very fine grained, dark grey to black

SYMBOLS

Strike and dip of bedding

Strike and dip of shearing

Strike and dip of jointing

Glacial striae

Outcrop

Boundary of area of Q-zone mineralized boulders

FLOAT SAMPLE

OUTCROP SAMPLE

250E 300E 350E 400E 450E 500E 550E 600E 650E 700E

900N 850N 800N 750N 700N 650N 600N 550N 500N 450N 400N 350N 300N 250N 200N 150N 100N 50N 0

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,819

Scale 1:1250
25 0 25 50 75
(metres)

St. James Consultants

Quill Property

Skeena Mining Division — NW British Columbia

Q-zone Grid — Geology/SAMPLE LOCATIONS

Geology by: J. H. Adams | July, 1998 | Map 1

250 E 300 E 350 E 400 E 450 E 500 E 550 E 600 E 650 E 700 E

900 N 850 N 800 N 750 N 700 N 650 N 600 N 550 N 500 N 450 N 400 N 350 N 300 N 250 N 200 N 150 N 100 N 50 N 0

X Q-ZONE
O WINDY TARN

Scale 1 1250
25 0 25 50 75
(metres)

St. James Consultants

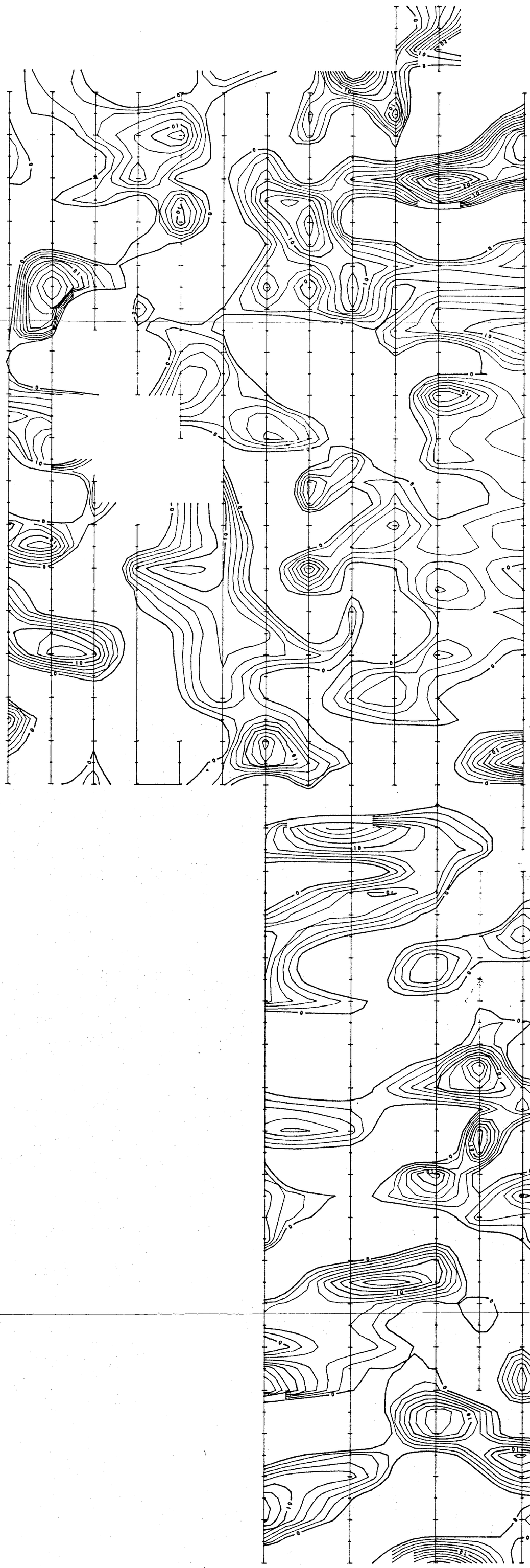
Ground Magnetics – Contoured Magnetic Field Data (nT)
Quill Property – Skeena Mining Division – NW British Columbia

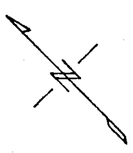
Instrument – GEM Systems GSM-19 Combined Mag & VLF-EM
July 15, 1998

John H. Adams and Associates Ltd.

250 E 300 E 350 E 400 E 450 E 500 E 550 E 600 E 650 E 700 E

900 N
850 N
800 N
750 N
700 N
650 N
600 N
550 N
500 N
450 N
400 N
350 N
300 N
250 N
200 N
150 N
100 N
50 N
0





Scale 1 1250

25 0 25 50 75
(metres)

250 E 300 E 350 E 400 E 450 E 500 E 550 E 600 E 650 E 700 E

QUILL PROPERTY

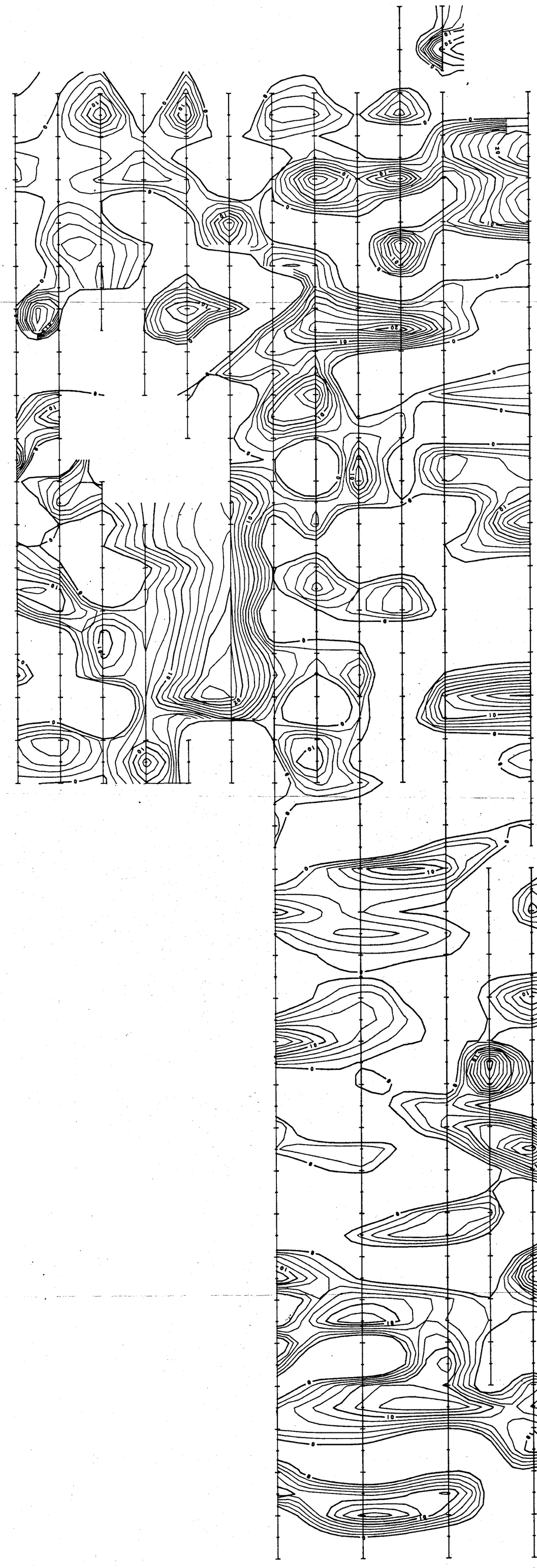
Ground VLF-EM – 21.4 kHz – Fraser Filtered
Quill Property – Skeena Mining Division – NW British Columbia

VLF Station Annapolis, USA, Frequency 21.4 kHz
Instrument – GEM Systems GSM-19 Combined Mag & VLF-EM
July 15, 1998

John H. Adams and Associates Ltd.

250 E 300 E 350 E 400 E 450 E 500 E 550 E 600 E 650 E 700 E

900 N
850 N
800 N
750 N
700 N
650 N
600 N
550 N
500 N
450 N
400 N
350 N
300 N
250 N
200 N
150 N
100 N
50 N
0



Scale 1 1250

25 0 25 50 75
(metres)

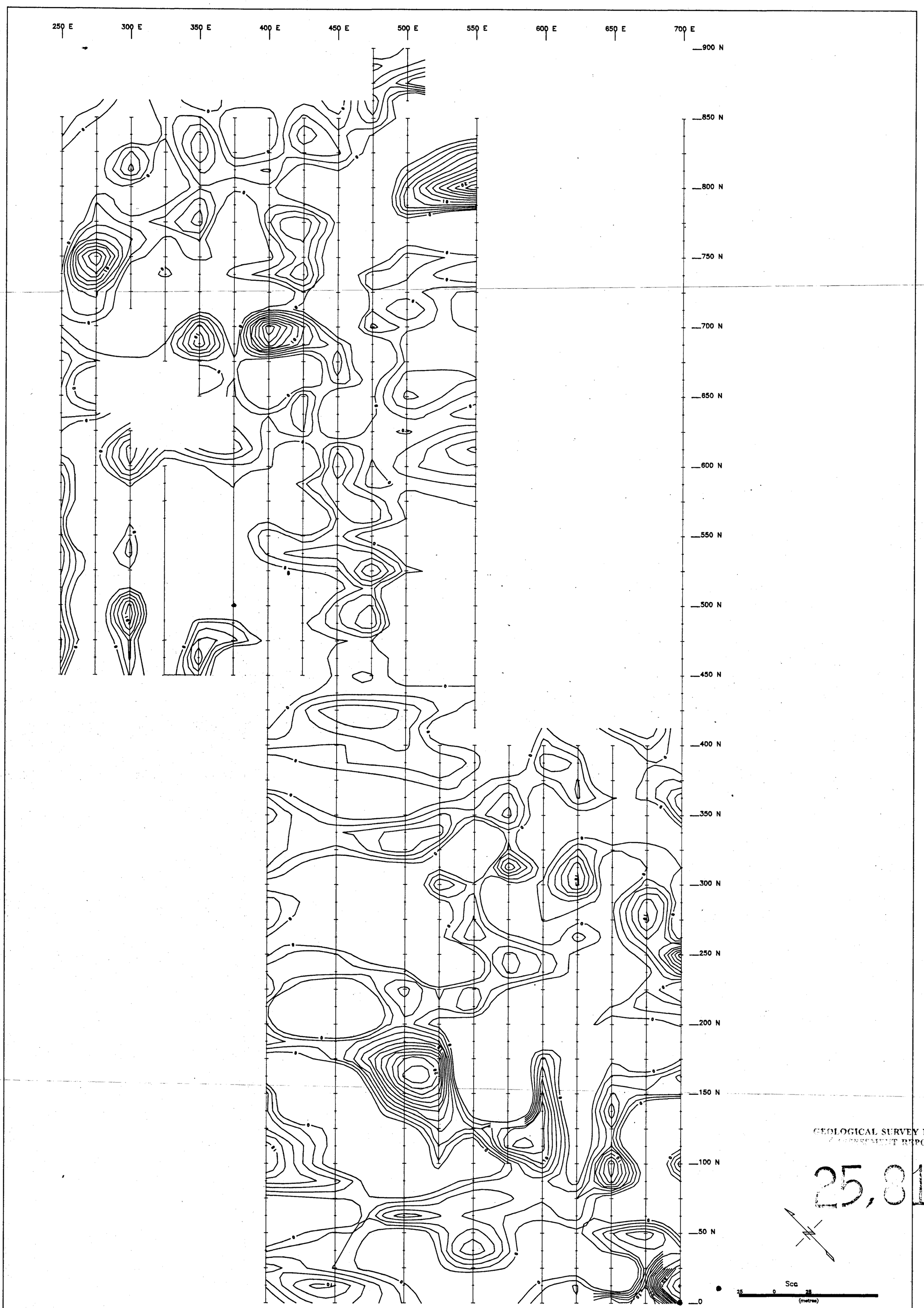
25,819

QUILL PROPERTY

Ground VLF-EM – 22.3 kHz – Fraser Filtered
Quill Property – Skeena Mining Division – NW British Columbia

VLF Station NW Cape, Australia, Frequency 22.3 kHz
Instrument – GEM Systems GSM-19 Combined Mag & VLF-EM
July 15, 1998

John H. Adams and Associates Ltd.



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,819

QUILL PROPERTY

Ground VLF-EM – 24.8 kHz – Fraser Filtered
Quill Property – Skeena Mining Division – NW British Columbia

VLF Station Seattle, USA; Frequency 24.8 kHz
Instrument – GEM Systems GSM-19 Combined Mag & VLF-EM
July 15, 1998

John H. Adams and Associates Ltd.