010

ASSESSMENT REPORT, CODE TOWNSHIP
FORT KNOX RESOURCES, SOUTH BLOCK
KENORA MINING DIVISION
GEOLOGICAL AND GEOPHYSICAL SURVEY
JULY 15 - AUGUST 7, 1985
NTS: 52E9

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Geologist
Canadian Nickel Co. Ltd.
Copper Cliff, Ontario
October, 1985

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SUMMARY

During July and August, 1985, geological, magnetometer, VLF and horizontal loop surveys were carried out over the claim group.

The claim group is underlain by steeply dipping volcanic and intrusive rocks belonging to the Dogtooth Lake and Gibi Lake Sequences (Trowel, et al, 1980). The Dogtooth Lake Sequence consists of mafic, massive, locally porphyritic and pillowed flows. Gabbro sills 20 m to 200 m thick are common. The Gibi Lake Sequence stratigraphically overlies the Dogtooth lake Sequence and within the map area, consists of felsic pyroclastics.

A major fault-alteration zone appears to be stratigraphically bound to the transition zone between the two sequences. The zone is characterized by shearing, intense iron carbonate, calcium carbonate, silicic and chlorite alteration.

Grab samples were taken from outcrop exposures of all lithologies. All anomalous gold values obtained were restricted to samples from the fault - alteration zone.

Based on the information obtained during the geological survey, further work on the property is warranted.

INTRODUCTION

An exploration program, consisting of geological, magnetometer, VLF and horizontal loop surveys, was carried out over the claim block. The geological survey was performed by a 2 member field crew from July 15 to August 7, 1985.

LOCATION AND ACCESS

The property is located 20 km southeast of Kenora, Ontario, (Figure 1). The property is approximately centered in the northwest 1/4 of Code Township. Access is provided by the Witch Bay Road, off Highway 71, south of Kenora.

TOPOGRAPHY

The topography of the map area is generally rugged. Numerous five to six metre escarpments are scattered across the property. Low lying areas are usually wet and often contain thick cedar swamps. Balsam, poplar and birch are the main tree types with thick undergrowth common. Water supply is available within claims K825156, K825154 and one hundred metres south of claims K825158-59, (Witch Bay).

PROPERTY

The property consists of nine contiguous claims, figure 2, held by Fort Knox Gold Resources Incorporated. The geological survey was carried out over eight claims.

Claims	Recorded	Expiry Date
K825152-59 (incl.)	04-22-85	04-22-86

GRIDDING

A baseline was established at an azimuth of 090 degrees (Figure 3). The baseline was turned off the 110+00E control line which was extended from the north block. Cross lines were cut and chained at 100 metre intervals with pickets placed every 25 metres.

PREVIOUS WORK

Dome Exploration (Canada) Ltd. drilled one hole into a horizontal loop conductor in the northeast corner of claim K 825155. They intersected andesite and norite with pyrite, pyrrhotite and trace chalcopyrite mineralization. No assays were available.

Three hundred metres south and fifty metres east of post #1, claim K825159, two shafts were found, each approximately 3 m x 3 m x 5 m deep. It was evident they were exploring the depth potential of a 1-2 metre wide quartz vein. The work appeared to have been performed in the early 1900's. Eleven samples were taken of vein and host rock material by Canico, none were anomalous.

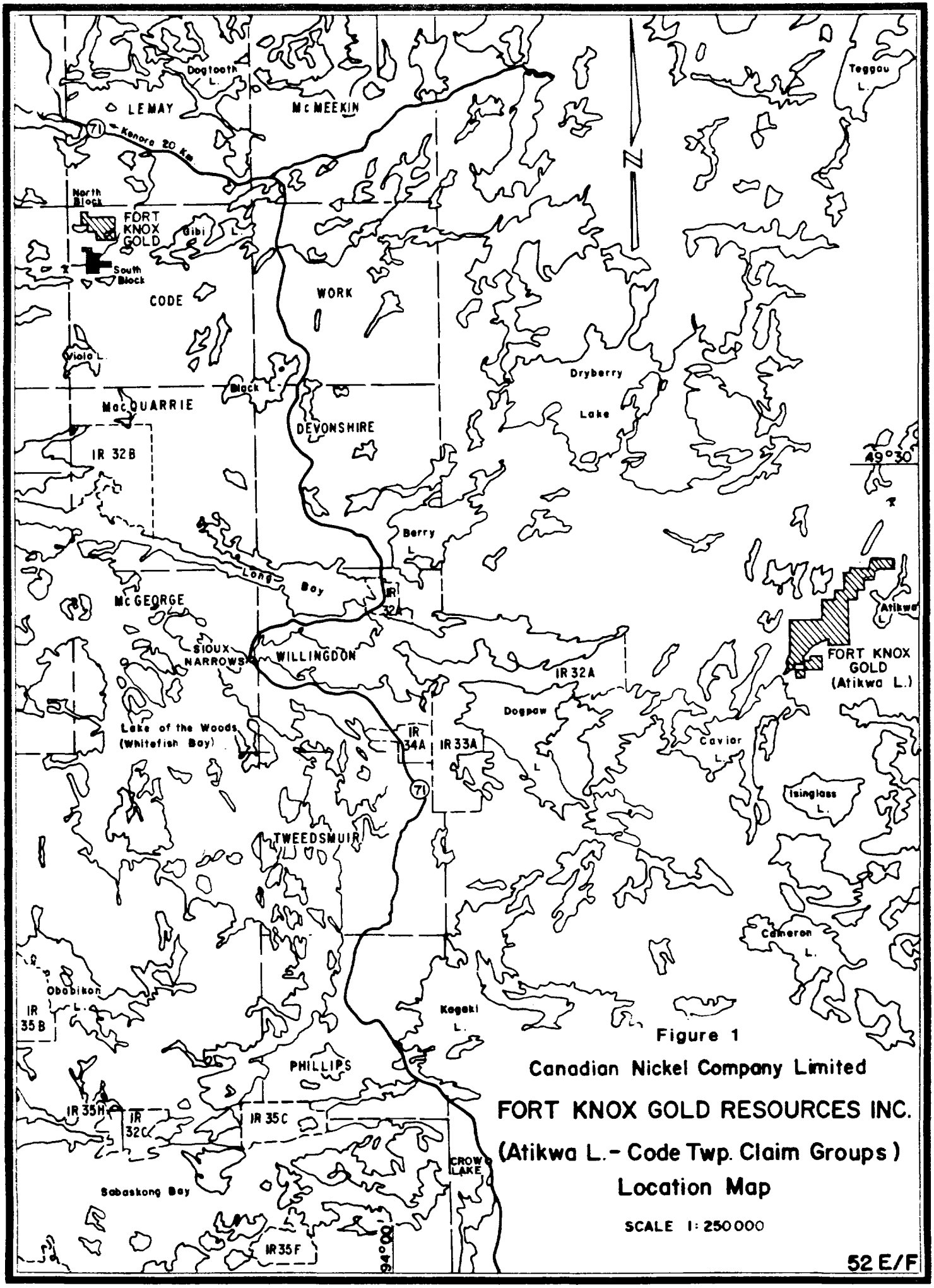


Figure 1

Canadian Nickel Company Limited

FORT KNOX GOLD RESOURCES INC.

(Atikwa L.- Code Twp. Claim Groups)

Location Map

SCALE 1:250000

52 E/F

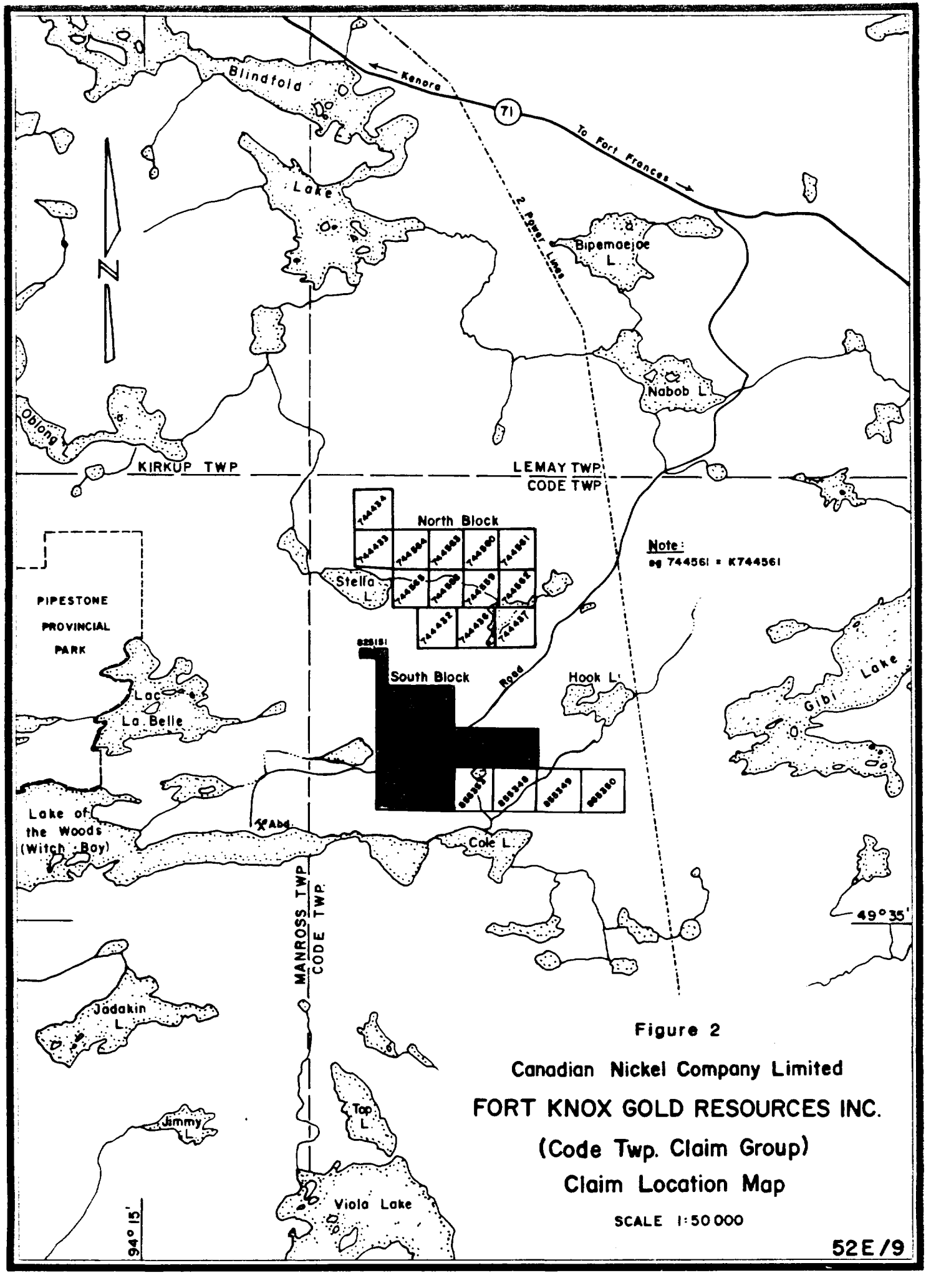


Figure 2

Canadian Nickel Company Limited

FORT KNOX GOLD RESOURCES INC.

(Code Twp. Claim Group)

Claim Location Map

SCALE 1:50 000

52E/9

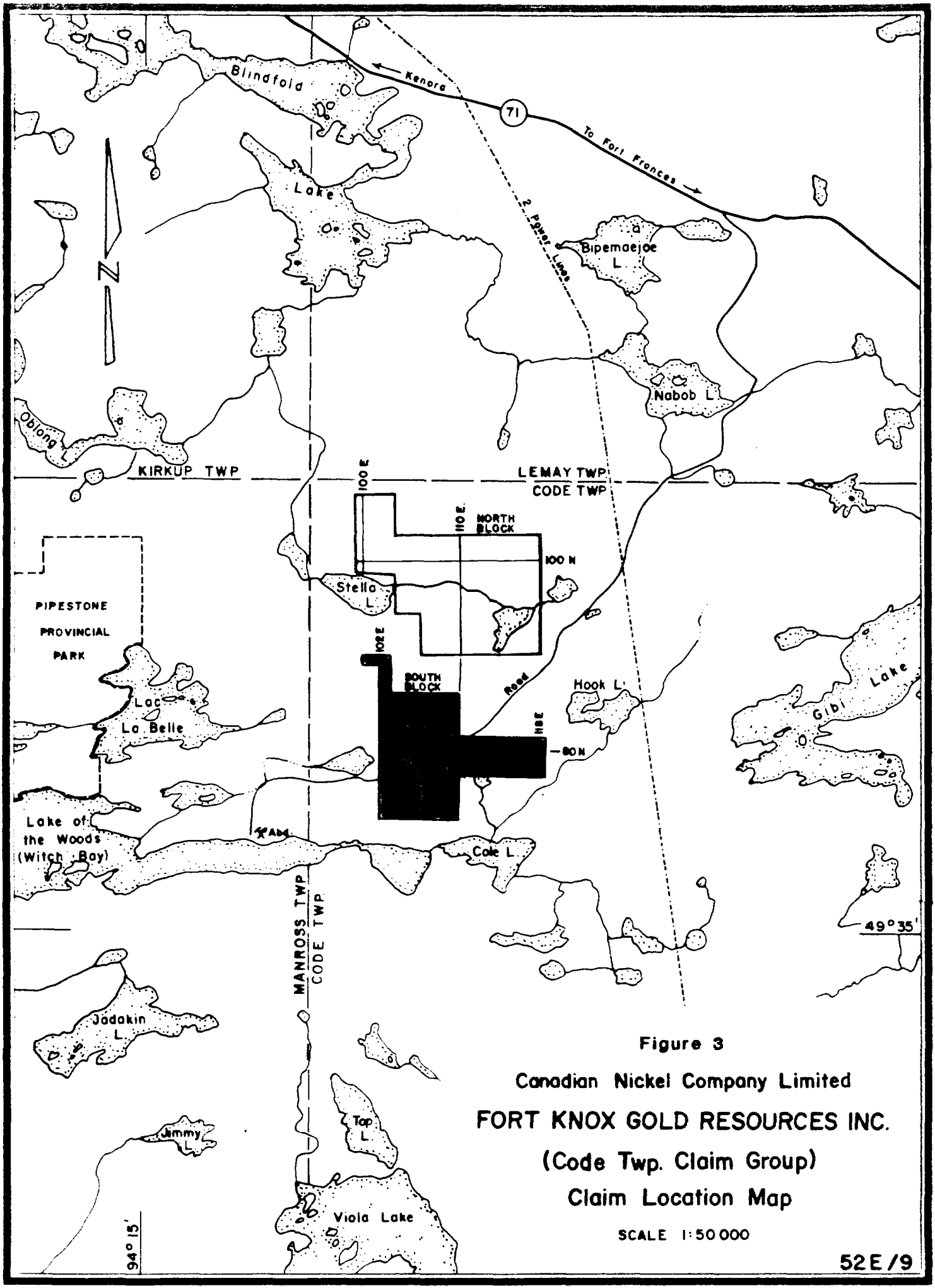


Figure 3

Canadian Nickel Company Limited

FORT KNOX GOLD RESOURCES INC.

(Code Twp. Claim Group)

Claim Location Map

SCALE 1:50 000

52E/9

GENERAL GEOLOGY

The property is located within the Wabigoon Subprovince of the Superior Structural Province. Mafic volcanics progress upward into intermediate to felsic pyroclastic sequences. Clastic and chemical sediments are common within the upper more felsic units and mafic to ultramafic intrusives are common within the lower mafic sequences. Large granitic batholiths and stocks intrude all of the above.

The claim group in Code Township encompasses two major sequences; 1) The Dogtooth lake Sequence consisting of massive, porphyritic or pillowed mafic flows with gabbroic sills. 2) The Gibi Lake Sequence consisting of the overlying felsic lapilli tuffs to agglomerates.

The main area of interest is the contact zone between the Dogtooth Lake and Gibi Lake Sequences. This zone is an extension of the Andrew Bay - Witch Bay Fault zone which is characterized by shearing and calcium carbonatization to the west. Within the claim group it is characterized by shearing, calcium and iron carbonatization, sericitization and pyrite mineralization.

Twelve anomalous gold values were obtained along the zone within the claim group. The most encouraging gold assays are 4.17 ppm over 30 cm and 7.86 ppm from a grab sample.

LITHOLOGY

Table 1, presents the lithologic legend for the geological survey conducted on the Code Township south grid. Three major lithologic groups are present on the property. Mafic intrusives, intermediate to felsic volcanics and mafic to intermediate volcanics.

MAFIC TO INTERMEDIATE VOLCANICS

In the map area these rocks belong to the Dogtooth Lake Sequence, (Trowel, et al, 1980) and are comprised of pillowed, porphyritic and massive flows with intercalated tuffs. They are andesitic to basaltic in composition, massive to moderately foliated, aphanitic to fine grained and green to light green in colour. They are generally weakly carbonatized with calcite the predominate form of carbonate. Calcium carbonatization is especially intense within the mafic volcanics, claim K825157.

The tuffs are mainly as thin interbeds within flow units. They are green, moderately foliated and moderately carbonatized. They are best exposed within claim K825157.

MAFIC INTRUSIVES

A major gabbroic sill, trending at 070 degrees, bifurcates the property. It is commonly porphyritic, sheared and dark green in colour. Large, 5 mm, phenocrysts of pyroxene are set in a mg sericitized matrix with up to 5% fine

TABLE 1

Table of Lithologic Units

Mafic Intrusives - Dogtooth Lake Sequence

Gabbro
Porphyritic Gabbro
Chloritized Gabbro

Intermediate to Felsic Volcanics - Gibi Lake Sequence

Lapilli Tuff, Agglomerate
Tuff
Quartz - (Fe) Carbonate - Sericite Schist
Sericite - Chlorite - (Fe) Carbonate - Quartz Schist

Mafic to Intermediate Volcanics - Dogtooth Lake Sequence

Basalt
Pillowed Basalt
Porphyritic Basalt
Andesite
Tuff
Chlorite - Carbonate $\pm$ Quartz Schist

grained leucoxene. The pyroxene phenocrysts are dark green to black and are easily observed on the weathered surface.

From north to south a common progression across the major gabbroic sill involves a chloritized gabbro at the base, medium grained equigranular gabbro within the centre and porphyritic gabbro at the top.

Other smaller gabbroic intrusives, +20 m, parallel the major sill. They are medium grained, dark green and weakly carbonatized. Good chill margins were observed, however, individual smaller sills were difficult to trace, due to poor outcrop exposure in some areas.

INTERMEDIATE TO FELSIC VOLCANICS

The Gibi Lake Sequence belongs to the classification and is represented by one unit at the south edge of claims K825158-59. Light green, lapilli tuff to agglomerate sized fragments are set in a dark green chloritic matrix. The fragments are angular, aphanitic, rhyodacitic in composition and have a length to width ratio of 5 to 1. The matrix is dark green, soft and composed of chloritized tuff and represents 80% of the rock.

STRUCTURAL GEOLOGY

Foliations across the property dip steeply to the north and trend east-northeast, paralleling the large gabbroic sill.

Deformed pillows and lack of graded bedding within tuffs nullifies top determination on the claim group. Work performed elsewhere in the area suggests that tops are to the south.

The main structure of interest is the Andrew Bay - Witch Bay Fault Zone which can be traced through the south part of claims K825158-59. Within the claim group the fault zone is located along the contact between the Dogtooth Lake and Gibi Lake Sequences. The zone is characterized by shearing, calcium and iron carbonatization, silicification, sericitization and pyrite mineralization. The areas containing pyrite mineralization also have corresponding gold anomalies.

MINERALIZATION

Grab samples were collected from all lithologic units, areas of alteration and zones of sulphides. All samples were analysed for gold and those considered anomalous are listed below:

Co-ords		RX Sample Number	Au (ppb)	Pyrite	Rock Type
Easting	Northing				
109+00	73+50	RX 071734	35	Tr	2e
109+10	73+50	RX 071736	20	Tr	2d
105+40	72+45	RX 071763	40	Tr	Quartz Vein
106+05	72+35	RX 071764	75	Tr-1%	1h, 2d
107+45	72+75	RX 071767	3900	15%	1h
107+42	72+60	RX 075067	20	Tr	1h
107+30	72+70	RX 075068	4170	5%	1h, 2d, 30 cm chip
107+30	72+70	RX 075069	7860	5%	2d, 2b
107+30	72+70	RX 075070	945	3%	1h, 2d
107+30	72+70	RX 075071	1470	2-3%	Quartz-py vein
107+50	72+75	RX 075078	70	1-3%	1h, 2d
107+50	72+75	RX 075079	2460	2-3%	2d

CONCLUSIONS

Steeply dipping pillowed, porphyritic and massive mafic volcanics are intruded by gabbro sills. The mafic volcanics progress upward to felsic pyroclastic rocks. The contact zone between the two rock types has been sheared and intensely altered. Pyrite mineralization associated with the sheared, altered contact zone is auriferous.

RECOMMENDATIONS

Based on the information gathered during the geological survey, further work is warranted on the property.

REFERENCES

Ayer, J.A., Gil, K.M., and McCurdy, M.
1985: Precambrian Geology of the Bigstone Bay Area, Southern part, Kenora District: O.G.S. Map P.2831, Geological Series - Preliminary Map. Scale 1:15,840 or 1 inch to 1/4 mile. Geology 1984.

Blackburn, C.E., and Jones, D.A.
1983: Gold Deposits in Northwestern Ontario. O.G.S. Miscellaneous Paper 110, p. 194-210.

Davies, J.C., and Smith, P.M.
1984: The Structural and Stratigraphic Control of Gold in the Lake of the Woods Area. O.G.S. Miscellaneous Paper 119. p. 185-193.

Davies, J.C., Smith, P.M., and Blackburn, C.E.
1985: Geological Setting and Style of Gold Mineralization in the Lake of the Woods Area. Field Trip Guidebook, Institute on Lake Superior Geology, Thirty-First Annual Meeting, Kenora, Ontario. p. 13-56.

Trowell, N.F., Logothetis, J., and Caldwell, G.F.
1980: Gibi Lake Area, District of Kenora. O.G.S. Miscellaneous Paper 96, p. 17-20.

Certificate to Accompany Report

I, ARNOLD D. BURTON of Sudbury, Ontario certify:

1. That I reside at 92 Brookview Gardens in the City of Sudbury, in the Province of Ontario.

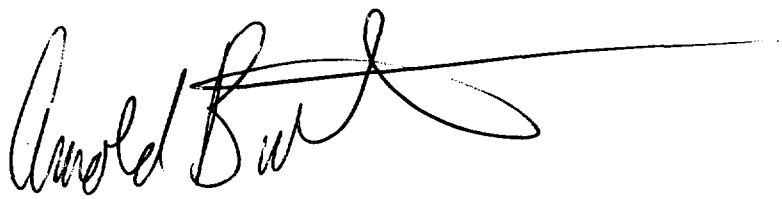
2. That I am a Graduate of Cambrian College of Applied Arts and Technology and hold a Geology Engineering Diploma, received in 1979.

3. That I am a Graduate of Laurentian University and hold a Honours Bachelor of Science Degree received in 1983.

4. That I have practiced my profession since 1983.

5. That I examined the property and conducted the survey.

6. That this report covers claims K825152 to K825159 inclusive.



APPENDIX

Sample Descriptions with Assay Results

TRAVERSE NUMBER / PROJECT Fort Knox - Code Twsp GEOLOGIST(S) ARNOLD BURTON

N.T.S. 52 E 9 AREA Kenora Mining Division DATE July-August 85

SAMPLE NUMBER	SAMPLE TYPE: Field Number	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M. Easting	Northing	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. per ton) Au (ppb)
RX071715	ABC-85-01		GRAB		11705	7915	Mafic Volcanic - Ca-CRBNTZD - schistose	<5
16	-03				11605	8120	Int Volcanic - WKLY CRBNTZD - "	<5
17	-04				11590	8060	Int Volcanic - Strongly " - "	<5
18	-05				11350	7855	Ca-Carb - chlorite schist	5
19	-06				11292	7980	chltzd Gabbro	<5
20	-08				11300	8180	chl - carb schist	<5
21	-09				11100	8105	" " "	<5
22	-10				11125	8005	basalt - 2% magnetite CRBNTZD	<5
23	-11				11095	7815	Porphyritic Gabbro	<5
24	-13				10900	8380	" "	<5
25	-14				10900	8320	" "	<5
26	-16				10895	8200	carbonate chlorite schist	10
27	-17				10900	8050	mod foliated volcanic, 1-2% PY	5
28	-18				10905	7975	interm - volc - mod CRBNTZD	10
29	-19				10900	7815	chl - carb - schist -	<5
30	-20				10900	7530	Qtz vein	<5
31	-21				10900	7530	chl - carb - schist	5
32	-22				10890	7530	Qtz vein - and chl - carb schist	<5
33	-23				10895	7403	chlorite - carb - sericite schist TR PY	5
34	-24				10900	7350	Sericite - qtz - Fe carb - calcite schist TR PY	35
35	-25				10898	7350	Qtz - carb sericite Rock - massive, towKLY schistose	10
36	-26				10910	7350	Qtz - carb rock - 1% PY	20
37	-27				10910	7355	chlorite - sericite - qtz carb schist 2% PY	15
38	-28				10890	7330	chlorite - sericite qtz schist	5
39	-29				10915	7330	sheared felsite - felsic volcanic	10
RX071740	-30				10910	7255	chlorite - sericite qtz schist	<5
RX071754	-31				10705	8180	porph gabbro	5
55	-32				10505	7835	Int volc - wkly Foliated TR PY PO	<5
56	-33				10540	7085	Qtz vein	10
57	-34				10800	7860	chl - carb - qtz - sericite schist	<5
58	-35				10800	7710	Porph gabbro	<5
59	-36				10792	7600	carb - chl - qtz schist	<5
60	-37		↓		10790	7535	chlorite carb qtz schist	5

TRAVERSE NUMBER / PROJECT Fort Knox - Code Twsp GEOLOGIST(S) ARNOLD BURTON

N.T.S. 52 E 9 AREA Kenora Mining Division DATE July - August 85

SAMPLE NUMBER	SAMPLE TYPE: Field Number	SX Stream Silt, Soil	Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M. Easting	Northing	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. p- ton) Au (ppb)
RX071761	ABC-85-38		GRAB		10800	7235	Qtz-carb-chl-sericite schist	5
62	-39				10800	7235	" " " " "	5
63	-41				10590	7245	Qtz vng in above	40
64	-42				10605	7235	chl-Qtz-Carb schist - locally 3-4% PY	75
65	-44				10500	7405	Porph Gabbro	<5
66	-46				10505	7185	Banded Qtz-chl-carb Schist - relic pyroclastic txte	<5
67	-47				10500	7275	Qtz-sericite-chl-carb-schist - 85% Qtz	5
68	-48				10400	7195	Qtz-Fe carb-sericite-chl-schist	<5
69	-49				10405	7200	As above relic tuff txte	<5
RX073355	-69			Shaft Dump	11045	7505	85-95% Qtz - 5-15% FeCarb TR-1% PY CP	5
56	-70				11045	7505	" " "	10
57	-71				11045	7505	" " "	<5
58	-72				11045	7505	" " "	10
59	-73		↓	↓	11045	7505	" " "	<5
60	-74		Chip	50cm	11085	7505	dark green chlorite ca carb schist	<5
61	-75		Chip	25cm	11085	7505	strongly foliated Fe carb diorite ?	<5
62	-76		Chip	150cm	11085	7505	Qtz-carb vein TR PY CP	<5
63	-77		Chip	120cm	11055	7520	highly foliated Ca carb chl schist	15
64	-78		Chip	150cm	11055	7520	" " " " "	10
65	-79		GRAB		11055	7520	Ca CRBNT chl-gabbro	<5
66	-80				10745	7295	Fissile chl-carb schist 3cm QV.	10
67	-81				10745	7275	Grey green chlorite-Fe Carb schist	3900
68	-82		↓		10755	7295	Fe Carb schist - Qtz stockwork	<5

TRAVERSE NUMBER 1 PROJECT Fort Knox - Code Twsp GEOLOGIST(S) ARNOLD BURTON

N.T.S. 52 E 9 AREA Kenora Mining Division DATE July - August 85

SAMPLE NUMBER	SAMPLE TYPE			SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and / or U.T.M.		SAMPLE DESCRIPTION	RESULTS (ppm. / % / oz. p ton)
	Field Number	SX Stream Silt, Soil	Grab, Chip, Channel		Easting	Northing	Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	Au (ppb)
RX075066	BS-01		GRAB		10982	7300	chl - Qtz - Fe Carb schist TR PY	5
67	BS-02		↓		10742	7260	chl - Qtz - Fe carb schist TR PY	20
68	BS-03		Chip	30cm	10730	7270	chl - PY - Fe Carb zone 5% PY	4170
69	BS-04		GRAB		10730	7270	Siliceous - sheared fragmental 5-7% PY	7860
							Qtz looks cherty Fe carb - chl schistose	
70	BS-05		GRAB		10730	7270	Limonitic zone - TR PY cubes - chloritic	945
71	BS-06		GRAB		10730	7270	Qtz - PY Rich zone - Black Qtz - 2-3% PY	1470
72	GL-01		GRAB		10972	7275	CHL schist 5% Qtz carb TR PY	10
73	GL-02		Chip	5cm	10975	7265	Qtz rich zone + above TR-2% PY	15
74	GL-03		GRAB		10712	7260	chl - Fe carb schist 1% PY sheared	30
75	AB-01		GRAB		11005	7250	Sericite Qtz Fe carb schist - sheared felsic volc	<5
76	AB-02		Chip	7cm	10975	7265	Qtz vein - Black to grey TR PY	<5
77	AB-03		GRAB		10975	7265	chl - Fe carb schist 2% PY // to foliation	5
78	AB-04		GRAB		10750	7275	chl - Fe carb Qtz schist - 1-3% PY	70
79	AB-05		GRAB		10750	7275	Qtz - Fe carb chl schist 2-3cm Qtz bands - 2-3% PY very rusty	2460

TRAVERSE NUMBER 1 | PROJECT Fort Knox - Cole Twsp | GEOLOGIST(S) Bill Swiegey

N.T.S. 52 E 9 | AREA Kenora Mining Division | DATE July - August 1985

SAMPLE NUMBER	SAMPLE TYPE: Field Number	SX Stream Silt, Soil	Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and / or U.T.M. Easting	Northing	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. / ton): Au (ppb)
RX071741	BSC-85-04		GRAB		11510	7917	Carb - chl schist	<5
42	-05				11505	7960	Porph Gabbro	<5
43	-06				11500	8980	" "	<5
44	-07				11505	8135	Foliated mafic volc mod ca CRENIZO	5
45	-09				11400	7826	As above	<5
46	-10				11200	8178	As above	5
47	-11				11206	8090	chloritic volcanic	<5
48	-13				11200	7870	chloritic gabbro	<5
49	-16				11015	8110	int volc	<5
50	-17				10800	8383	int volc	<5
51	-18				10805	8276	mafic volc	<5
52	-19				10808	8203	porphy gabbro	<5
53	-20				10800	8135	mafic volc	<5
RX071770	-21				10600	7850	carb - chl schist	<5
71	-22				10598	7880	int to mafic volc	<5
72	-23				10600	7930	porph gabbro	5
73	-24				10605	7948	int to mafic volc	<5
74	-25				10600	7951	gabbro	<5
75	-26				10595	7970	"	<5
76	-28				10600	8315	"	<5
77	-29				10700	7845	mafic volcanic	<5
78	-30				10702	7806	" "	<5
79	-31				10690	7660	gabbro	5
80	-32				10695	7648	WKLY foliated Leuco gabbro	<5
81	-33				10702	7627	chl gabbro	5
82	-36				10675	7450	gabbro	<5
83	-38				10700	7385	Carb - chl schist	<5
84	-39				10693	7233	" " "	<5
85	-40				10700	7127	mafic to int volc	15
86	-41				10727	7145	" " " "	5
87	-42				10700	7125	mod foliated int to mafic volc	<5
88	-43				10400	7640	Carb chl schist TR PY	<5
89	-45		✓		10400	7755	Mass to WKLY foliated mafic volc	<5

TRAVERSE NUMBER _____ PROJECT Fort Knox - Cole Twsp GEOLOGIST(S) Bill Siegey

N.T.S. 52 E 9 AREA Kenora Mining Division DATE July - August 1985

SAMPLE NUMBER	SAMPLE TYPE: Field Number	SAMPLE TYPE: SX Stream Silt, Soil	SAMPLE TYPE: Grab, Chip, Channel	SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and / or U.T.M. Easting	Northing	SAMPLE DESCRIPTION: Rock type, lithology, character of soil, stream silt, etc. Formation Mineralization, etc.	RESULTS (ppm. / % / oz. ton): Au (ppb)
RX071790	BSC-85-48		GRAB		10420	8154	wKLY to strongly foliated mafic volc	<5
91	-49				10406	8190	mod Fol int volc	<5
92	-52				10290	8286	gabbro	<5
93	-53				10306	8220	wKLY Folid gabbro	<5
94	-54				10300	8197	porph gabbro	<5
95	-57				10295	7821	mod Folt mafic volc	<5
96	-58				10300	7750	" " " "	<5
97	-59				10315	7710	" " " "	<5
98	-64		↓		10200	7740	" " " "	<5

GEOPHYSICAL REPORT

FORT KNOX RESOURCES, SOUTH BLOCK

CODE TOWNSHIP, M-1962, ONTARIO

KENORA MINING DIVISION

NTS: 52-E-9

GENERAL

This report is to accompany the assessment report on the geological survey over the Fort Knox Resources property, South Group in Code Township, Ontario. Except that in addition, claim no. 85151 was included in the magnetic and VLF coverage. The geophysical survey was performed to explore the area for mineral deposits and to help in the interpretation of the geological setting of the area. The magnetic survey will outline rock units according to their magnetic properties that may be specific to certain types. The VLF survey was carried out to find electromagnetic conductors that can be caused by materials of low resistivity such as structural features. The horizontal loop survey was performed to differentiate from those conductors caused by sources such as sulphides and graphite. All pertinent questions such as access, property, grid and location are described in the front of the geological report.

INSTRUMENTS

1. Magnetometers

A G-816 proton precision magnetometer built by Exploranium-Geometrics was used to measure the total field of the earth's magnetic field. The specifications of the instrument are attached to this report.

2. VLF-EM Receiver

A RADEM - VLF receiver built by Crone Geophysics of Toronto was used. This receiver measures different components of the electromagnetic field transmitted by powerful low radio frequency transmitters operated by the U.S. Navy. For this survey the tilt angle and the quadrature component of the VLF field were measured. Specifications are attached to the back of this report.

3. Horizontal Loop System

The MaxMin II horizontal loop electromagnetic system was used manufactured by Apex Parametrics Ltd. of Toronto. This system can operate on five different frequencies and measures the in-phase and the out-of-phase component of the electromagnetic field. Specifications of the instrument are attached.

SURVEY PROCEDURES

1. Magnetic

Magnetic base stations were established along the baseline on the intersections with the cross lines by repeated reading of the magnetic intensity. The field readings taken along the cross lines were tied into these base stations and corrected for diurnal drift. The field readings were taken at 12.5 metre intervals along these cross lines. The results were then plotted on maps of 1:2500 scale and the magnetic values were contoured with an interval of 100 gammas.

2. VLF-EM

The tilt angle and quadrature (out-of-phase) readings were taken at 12.5 metre station intervals. The electromagnetic field used was transmitted from station NSS located at Annapolis, Maryland, at a frequency of 21.4 KHz. The readings were taken always by the operator facing in the direction of the transmitter location. The results were plotted on maps at a scale of 1:2500. The tilt angle values were plotted also in profile form using the following standards: a "right dip" was plotted as a positive value on this side of the profile line which is towards the transmitter and the "left dip" on this side of the line which is away from the transmitter.

3. Horizontal Loop EM

The in-phase and the out-of-phase components of the electromagnetic field were measured for three frequencies (888, 1777 and 3555 Hz) at 25 metre intervals and with a coil separation of 150 metres. The changes in the topographic slope were measured with a Sunnto clinometer Model PM-5/3PC. This allowed for application of corrections to compensate for the shortening of the distance between receiver and transmitter caused by the cable paralleling the ground surface. All data was entered and stored on computer diskettes. Printouts of the numerical results and a printed profile of all of the measured frequencies are contained in pockets in the back of this report. Also included is a location map showing the extent of the horizontal loop survey.

RESULTS

The magnetic survey outlines several narrow E-W striking anomalies with amplitudes in the range of 2000 gammas. They are most likely caused by seams of iron formation in volcanics or magnetic basalts. There are numerous VLF conductors on the property. Some of these are from bedrock conductors and some only from superficial or poorly conductive structural features. The horizontal loop survey located three conductors of weak to medium strength. These conductors may indicate the presence of sulfides and should be further investigated by geological mapping or explained by diamond drilling.

The surveys were performed during June and July of 1985.

STATISTICS

Line cutting	13 line km
Base line established	1.6 line km
Magnetometer Readings taken at 12.5 m intervals	1056
VLF-EM Readings taken at 12.5 m intervals	1056
HL-EM Readings taken at 25 m intervals	514

EKB/cb

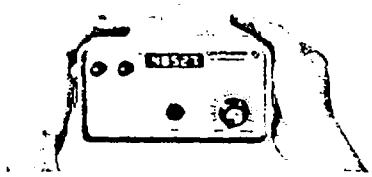
geoMetrics

MODEL G 816
PORTABLE PROTON MAGNETOMETER

914 Industrial Avenue
Palo Alto, California 94303
(415) 321-7610

"Hands-free" Back Pack Sensor

Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The proton precession method *is the officially recognized standard for measurement of the* earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field *polarity, or arbitrary reference levels. Operation is very* simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability—an important consideration even for 10 gamma survey resolution.



Complete Field Portable System

The Model G-816 comes complete, ready for portable field *operation and consists of*

1. Electronics console with internally mounted and easily replaced "D" cell battery pack
2. Proton sensor and signal cable for attachment to carrying harness or staff.
3. Adjustable carrying harness.
4. 8 foot collapsible staff.
5. Instruction manual, complete set of spare batteries, reusable shipping container

All magnetometers and parts are covered by a one year warranty beginning with the date of receipt but not to exceed fifteen months from the shipping date.

SPECIFICATIONS

Sensitivity: ±1 gamma throughout range

Range: 20,000 to 90,000 gammas (worldwide)

Tuning: Multi-position switch with signal amplitude indicator light on display

Gradient Tolerance: Exceeds 150 gammas/ft

Sampling Rate: Manual push-button, one reading each 6 seconds

Output: 5 digit numeric display with readout directly in gammas

Power Requirements: Twelve self-contained 1.5 volt "D" cell, universally available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Battery Type	Number of Readings
Alkaline	over 10,000
Premium Carbon-Zinc	over 4,000
Standard Flashlight	over 1,500

NOTE: Battery life decreases with temperature

Temperature Range: Console and sensor: -40° to +85°C

Battery Pack: 0° to +50°C (limited use to -15°C; lower temperature operation—optional)

Accuracy (Total Field): ±1 gamma through 0° to 50°C temperature range

Sensor: High signal, noise cancelling, interchangeably mounted on separate staff or attached to carrying harness

Size:
Console 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm)
Sensor 4.5 x 6 inches (11 x 15 cm)
Staff: 1 inch diameter x 8 ft length (3 cm x 2.44 m)

Weight:

	Lbs.	Kgs.
Console (w/batteries):	5.5	2.4
Sensor & signal cable:	4	1.8
Aluminum staff:	2	0.9
	11.5	5.1

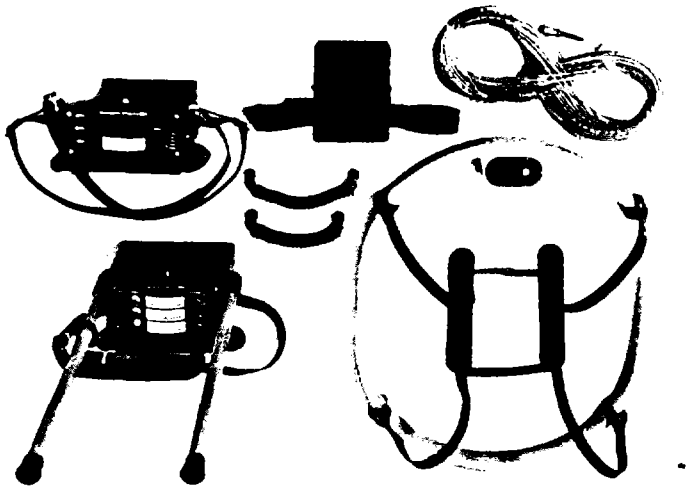
geoMetrics 914 INDUSTRIAL AVENUE PALO ALTO, CALIFORNIA 94303 TEL: (415) 321-7410 CABLE: GEOMETRICS TELEX: 345525

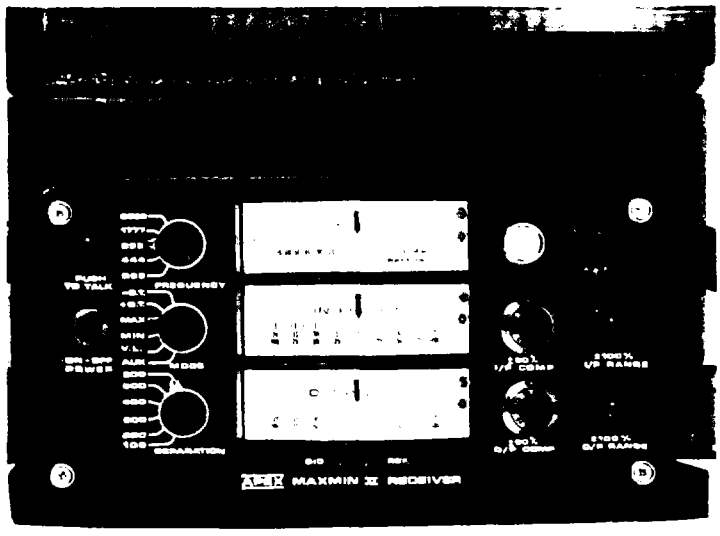
EXPLORANIUM DIVISION • GEOMETRICS SERVICES (CANADA) LTD. 48 ALNESS STREET, DOWNSVIEW (TORONTO), ONTARIO, CANADA • TELEPHONE (416) 638-6660

AIRBORNE GEOPHYSICS DIVISION • GEOMETRICS INTERNATIONAL CORP. 80 A. REED STREET, MILSON'S POINT, SYDNEY, NSW 2061 • TELEPHONE 929-9942

APEX MAXMIN II
PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180 m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.





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Frequencies: 222, 444, 888, 1777 and 3555 Hz.

Modes of Operation:
MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.
MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25, 50, 100, 150, 200 & 250 m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90 mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise meters in V.L. mode.

Scale Ranges:
In-Phase: ±20%, ±100% by push-button switch.
Quadrature: ±20%, ±100% by push-button switch.
Tilt: ±75% slope.
Null (V.L.): Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.5 %.
Tilt : 1%

Repeatability: ± 0.5% to ±1% normally, depending on conditions, frequencies and coil separation used.

Transmitter Output:
- 222 Hz : 175 Atm^2
- 444 Hz : 160 Atm^2
- 888 Hz : 100 Atm^2
- 1777 Hz : 60 Atm^2
- 3555 Hz : 30 Atm^2

Receiver Batteries: 9V trans radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

Transmitter Batteries: 12V 7.5Ah Gel-Cell rechargeable batteries (2 × 6V in series).

Reference Cable: Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Voice Link: Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

Indicator Lights: Built-in signal and reference warning lights to indicate erroneous readings.

Temperature Range: -40°C to +60°C (-40°F to +140°F).

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification.

APEX PARAMETRICS LIMITED
200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

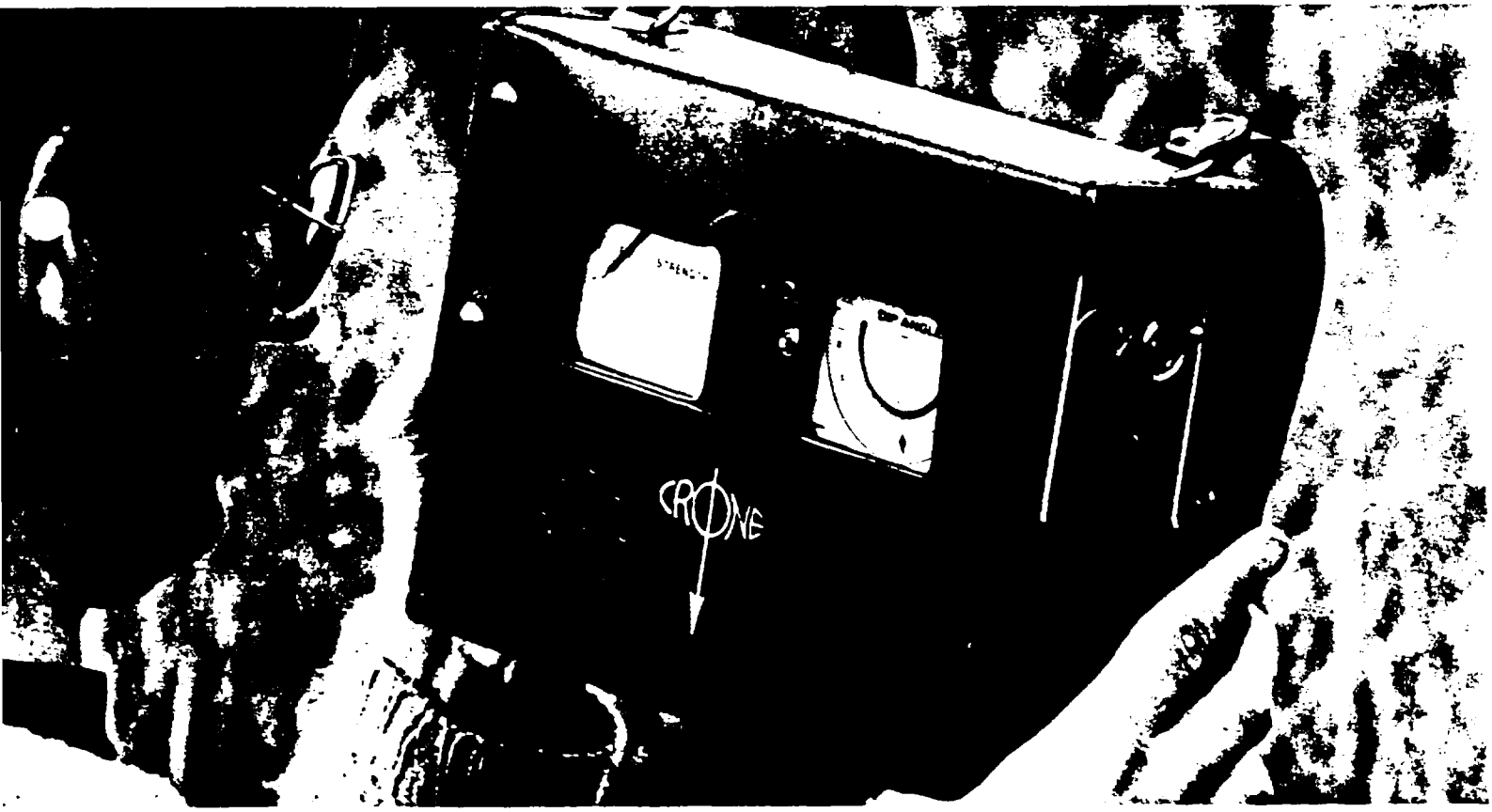
Phone: (416) ~~495-1812~~ 852-5875 Cables: APEXPARA TORONTO Telex: 06-966773 NORDVIK TOR

CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA,
L5C 1V8

Phone: (416) 270-0096

Cable: CRONGEO, TORONTO



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The DIP ANGLE measurement detects a conductor from a considerable distance and is used primarily for locating conductors. The FIELD STRENGTH measurement is used to define the shape and attitude of the conductor.

SPECIFICATIONS

SOURCE OF PRIMARY FIELD: VLF Communication Stations 12 to 24K hz

NUMBER OF STATIONS: 7 switch selectable

STATIONS AVAILABLE: The seven stations my be selected from:

Code	Station & Location	Frequency	
CM	Cutler, Maine	~~17.8 KHz~~	24.0 KHz
SW	Seattle, Washington	~~18.6 KHz~~	24.8 KHz
AM	Annapolis, Maryland	21.4 KHz	
H	Laulualei, Hawaii	23.4 KHz	
BOF	Bordeaux, France	15.1 KHz	
E	Rugby, England	16.0 KHz	
MS	Gorki, Russia	17.1 KHz	
OD	Odessa (Black Sea)	15.6 KHz	
NC	Australia, N.W.C.	22.3 KHz	
YJ	Yosamai, Japan	17.4 KHz	
HN	Hegaland, Norway	17.6 KHz	
TJ	Tokyo, Japan	20.0 KHz	
LSA	Buenos Aires	23.6 KHz	

CHECK THAT STATION IS TRANSMITTING: Audible signal from speaker.

PARAMETERS MEASURED:

(1) DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with a range of ± 90° and an accuracy of ± ½°.

(2) FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy ± 2% dependent on signal. Meter has two ranges: 0 — 300% and 0 — 600%.

(3) OUT-OF-PHASE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of normal field strnegth, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy ± 2%.

OPERATING TEMPERATURE RANGE: -30°C (-20°F) to +50°C (120°F)

DIMENSIONS AND WEIGHT: 9 x 19 x 27cm — 2.7Kg (6 lb)

SHIPPING: Instrument with foam lined wooden case,
shipping wt. — 6.0Kg (13 lb)

BATTERIES: 2 of 9 volt — Eveready 216
Average life expectancy — 20 hours for continuous operation

UNITS AVAILABLE ON A RENTAL OR PURCHASE BASIS.
CONTRACT SERVICES AVAILABLE FOR FIELD SURVEYS.

geoMetrics

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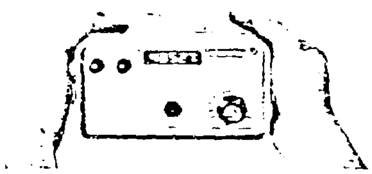

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SPECIFICATIONS

Sensitivity: ±1 gamma throughout range

Range: 20,000 to 90,000 gammas (worldwide)

Tuning: Multi-position switch with signal amplitude indicator light on display

Gradient Tolerance: Exceeds 150 gammas/ft.

Sampling Rate: Manual push-button, one reading each 6 seconds

Output: 5 digit numeric display with readout directly in gammas

Power Requirements: Twelve self contained 1.5 volt "D" cell, universally available flashlight type batteries. Charge state or replacement signaled by flashing indicator light on display

Battery Type	Number of Readings	
Alkaline	over	10,000
Premium Carbon Zinc	over	4,000
Standard Flashlight	over	1,500

NOTE: Battery life decreases with temperature

Temperature Range: Console and sensor: −40° to +85°C
Battery Pack: 0° to +50°C (limited use to −15°C, lower temperature operation—optional)

Accuracy (Total Field): ±1 gamma through 0° to 50°C temperature range

Sensor: High signal, noise cancelling, interchangeably mounted on separate staff or attached to carrying harness

Size:
Console: 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm)
Sensor: 4.5 x 5 inches (11 x 15 cm)
Staff: 1 inch diameter x 8 ft length (3 cm x 2.44 m)

Weight:

	Lbs.	Kgs.
Console (w/batteries)	5.5	2.4
Sensor & signal cable	4	1.8
Aluminum staff	2	0.9
	11.5	5.1

geoMetrics
914 Industrial Avenue, Palo Alto, California 94303 [illegible]

EXPLORANIUM DIVISION • GEOMETRICS SERVICES (CANADA) LTD
[illegible] Ness Street, Downsview, Toronto, Ontario, Canada [illegible]
AIRBORNE GEOPHYSICS DIVISION • GEOMETRICS INTERNATIONAL CORP.
[illegible]

[illegible]

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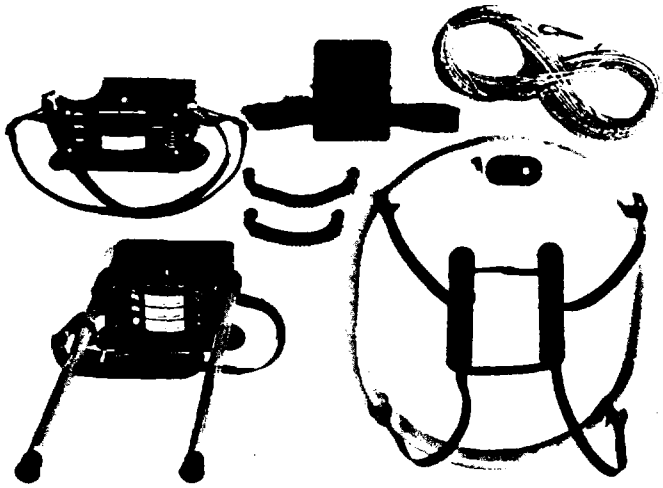

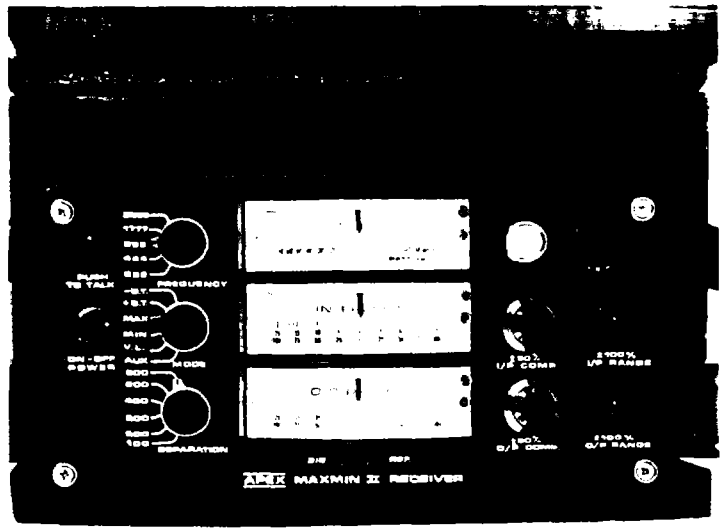

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Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90 mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise meters in V.L. mode.

Scale Ranges:
In-Phase: ±20%, ±100% by push-button switch.
Quadrature: ±20%, ±100% by push-button switch.
Tilt: ±75% slope.
Null (V.L.): Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.5 %.
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- 222Hz : 175 Atm^2
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- 1777Hz : 60 Atm^2
- 3555Hz : 30 Atm^2

Receiver Batteries: 9V trans. radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

Transmitter Batteries: 12V 7.5Ah Gel-Cell rechargeable batteries (2 × 6V in series).

Reference Cable: Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

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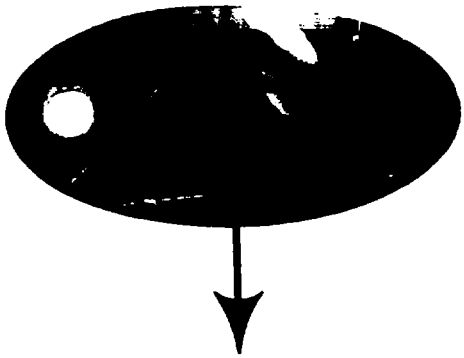
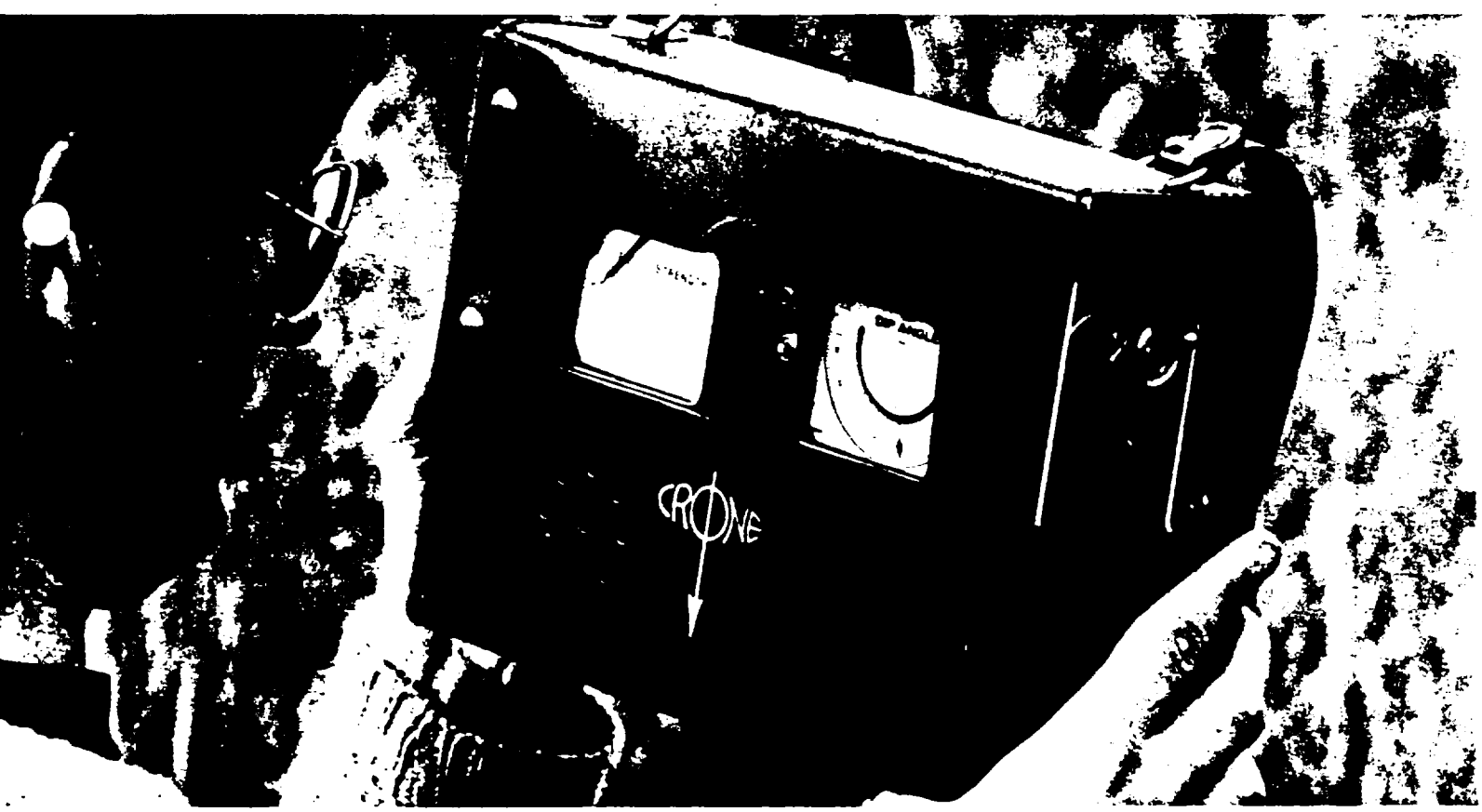


CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,
MISSISSAUGA, ONTARIO,
CANADA,
L5C 1V8

Phone: (416) 270-0096

Cable: CRONGEO, TORONTO



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H	Lauiualei, Hawaii	23.4 KHz	
BOF	Bordeaux, France	15.1 KHz	
E	Rugby, England	16.0 KHz	
MS	Gorki, Russia	17.1 KHz	
OD	Odessa (Black Sea)	15.6 KHz	
NC	Australia, N.W.C.	22.3 KHz	
YJ	Yosamai, Japan	17.4 KHz	
HN	Hegaland, Norway	17.6 KHz	
TJ	Tokyo, Japan	20.0 KHz	
BA	Buenos Aires	23.6 KHz	

CHECK THAT STATION IS TRANSMITTING: Audible signal from speaker.

PARAMETERS MEASURED:

(1) DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with a range of ± 90° and an accuracy of ± ½°.

(2) FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy ± 2% dependent on signal. Meter has two ranges: 0 — 300% and 0 — 600%.

(3) OUT-OF-PHASE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of normal field strnegth, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy ± 2%.

OPERATING TEMPERATURE RANGE: -30°C (-20°F) to +50°C (120°F)

DIMENSIONS AND WEIGHT: 9 x 19 x 27cm — 2.7Kg (6 lb)

SHIPPING: Instrument with foam lined wooden case,
shipping wt. — 6.0Kg (13 lb)

BATTERIES: 2 of 9 volt — Eveready 216
Average life expectancy — 20 hours for continuous operation

UNITS AVAILABLE ON A RENTAL OR PURCHASE BASIS.
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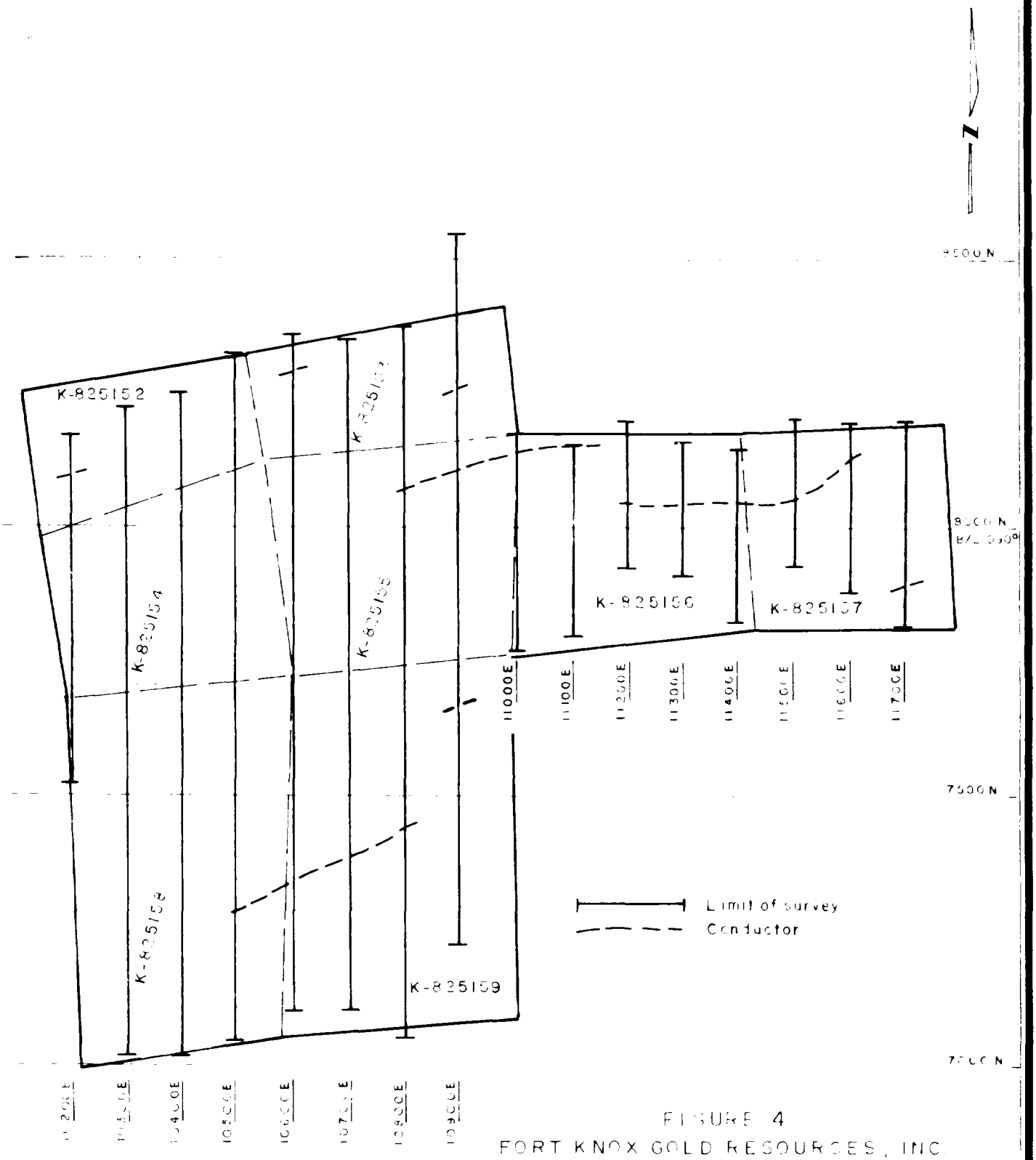


FIGURE 4
FORT KNOX GOLD RESOURCES, INC.
HORIZONTAL LOOP E.M. SURVEY
CODE TOWNSHIP
ONTARIO

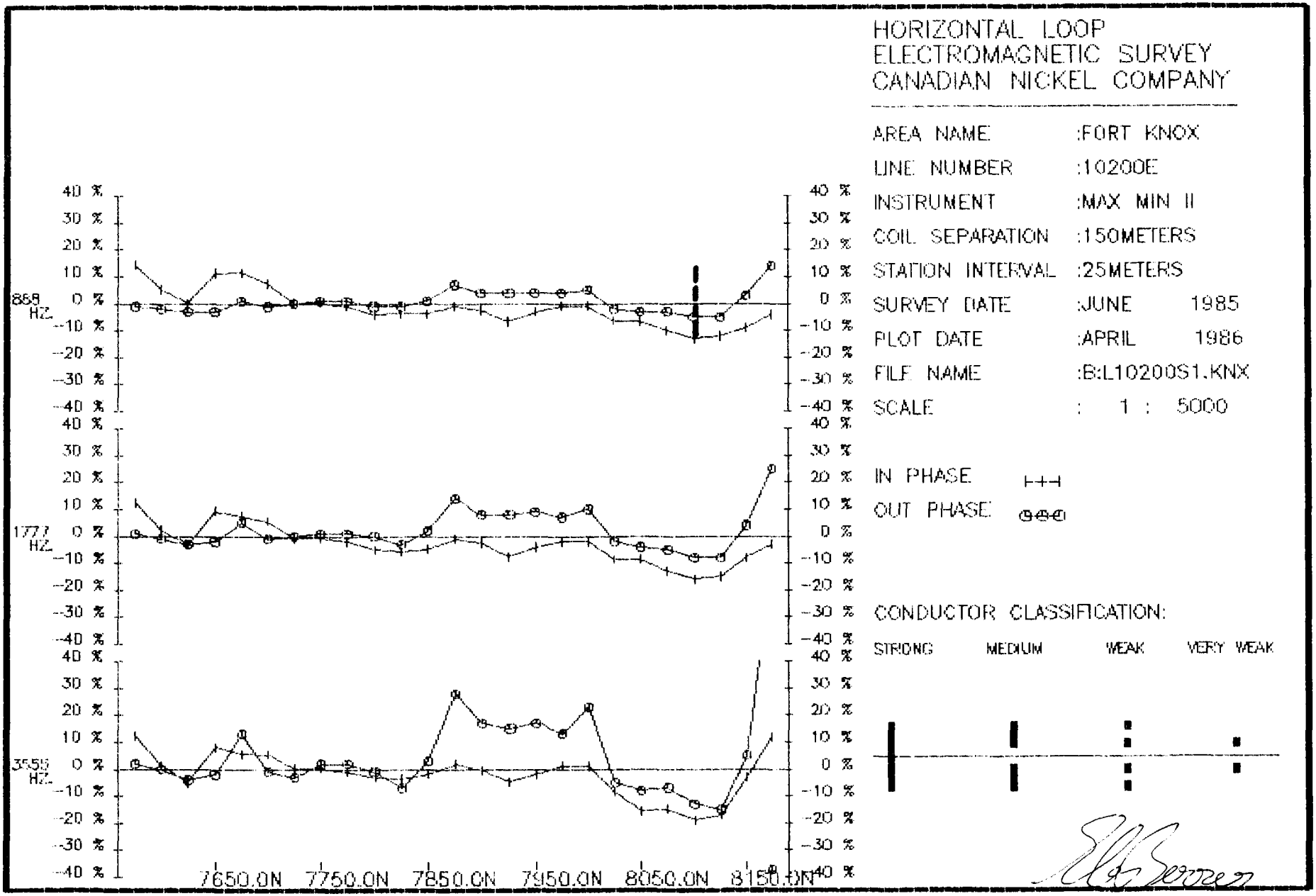
328/9 4/86

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 10200E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L10200S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7500N	7650N	7575N	12.29	2.	11.	12.29	1.	11.	14.29	-1.	13.	1.29	9.33
7525N	7675N	7600N	1.33	0.	1.	2.33	-1.	2.	5.33	-2.	5.	.33	4.67
7550N	7700N	7625N	-4.97	-4.	-5.	-2.97	-3.	-3.	.03	-3.	0.	.03	1.33
7575N	7725N	7650N	8.20	-2.	8.	9.20	-2.	9.	11.20	-3.	11.	.20	-3.67
7600N	7750N	7675N	5.54	13.	5.	7.54	5.	7.	11.54	1.	11.	.54	-6.00
7625N	7775N	7700N	5.43	-1.	4.	5.43	-1.	4.	7.43	-1.	6.	1.43	-9.83
7650N	7800N	7725N	.36	-3.	-2.	-.64	0.	-3.	.36	0.	-2.	2.36	-12.67
7675N	7825N	7750N	.37	2.	0.	-.63	1.	-1.	.37	1.	0.	.37	-5.00
7700N	7850N	7775N	-.91	2.	-1.	-1.91	1.	-2.	-.91	1.	-1.	.09	-2.50
7725N	7875N	7800N	-2.96	-1.	-3.	-4.96	0.	-5.	-3.96	-1.	-4.	.04	1.67
7750N	7900N	7825N	-3.63	-7.	-4.	-5.63	-3.	-6.	-3.63	-1.	-4.	.37	5.00
7775N	7925N	7850N	-1.70	3.	-2.	-4.70	2.	-5.	-3.70	1.	-4.	.30	4.50
7800N	7950N	7875N	2.03	28.	1.	-.97	14.	-2.	-.97	7.	-2.	1.03	8.33
7825N	7975N	7900N	-.30	17.	-1.	-2.30	8.	-3.	-2.30	4.	-3.	.70	6.83
7850N	8000N	7925N	-4.57	15.	-5.	-7.57	8.	-8.	-6.57	4.	-7.	.43	5.33
7875N	8025N	7950N	-2.00	17.	-2.	-4.00	9.	-4.	-3.00	4.	-3.	.00	-.50
7900N	8050N	7975N	1.12	13.	1.	-1.88	7.	-2.	-.88	4.	-1.	.12	-2.83
7925N	8075N	8000N	1.06	23.	1.	-1.94	10.	-2.	-.94	5.	-1.	.06	-2.00
7950N	8100N	8025N	-8.49	-5.	-9.	-8.49	-2.	-9.	-6.49	-2.	-7.	.51	-5.83
7975N	8125N	8050N	-15.57	-8.	-17.	-8.57	-4.	-10.	-6.57	-3.	-8.	1.43	-9.83
8000N	8150N	8075N	-14.97	-7.	-16.	-12.97	-5.	-14.	-9.97	-3.	-11.	1.03	-8.33
8025N	8175N	8100N	-18.96	-13.	-19.	-15.96	-8.	-16.	-12.96	-5.	-13.	.04	-1.67
8050N	8200N	8125N	-17.00	-15.	-17.	-15.00	-8.	-15.	-12.00	-5.	-12.	.00	.00
8075N	8225N	8150N	-3.00	5.	-3.	-8.00	4.	-8.	-9.00	3.	-9.	.00	.00
8100N	8250N	8175N	12.00	43.	12.	-3.00	25.	-3.	-4.00	14.	-4.	.00	.50

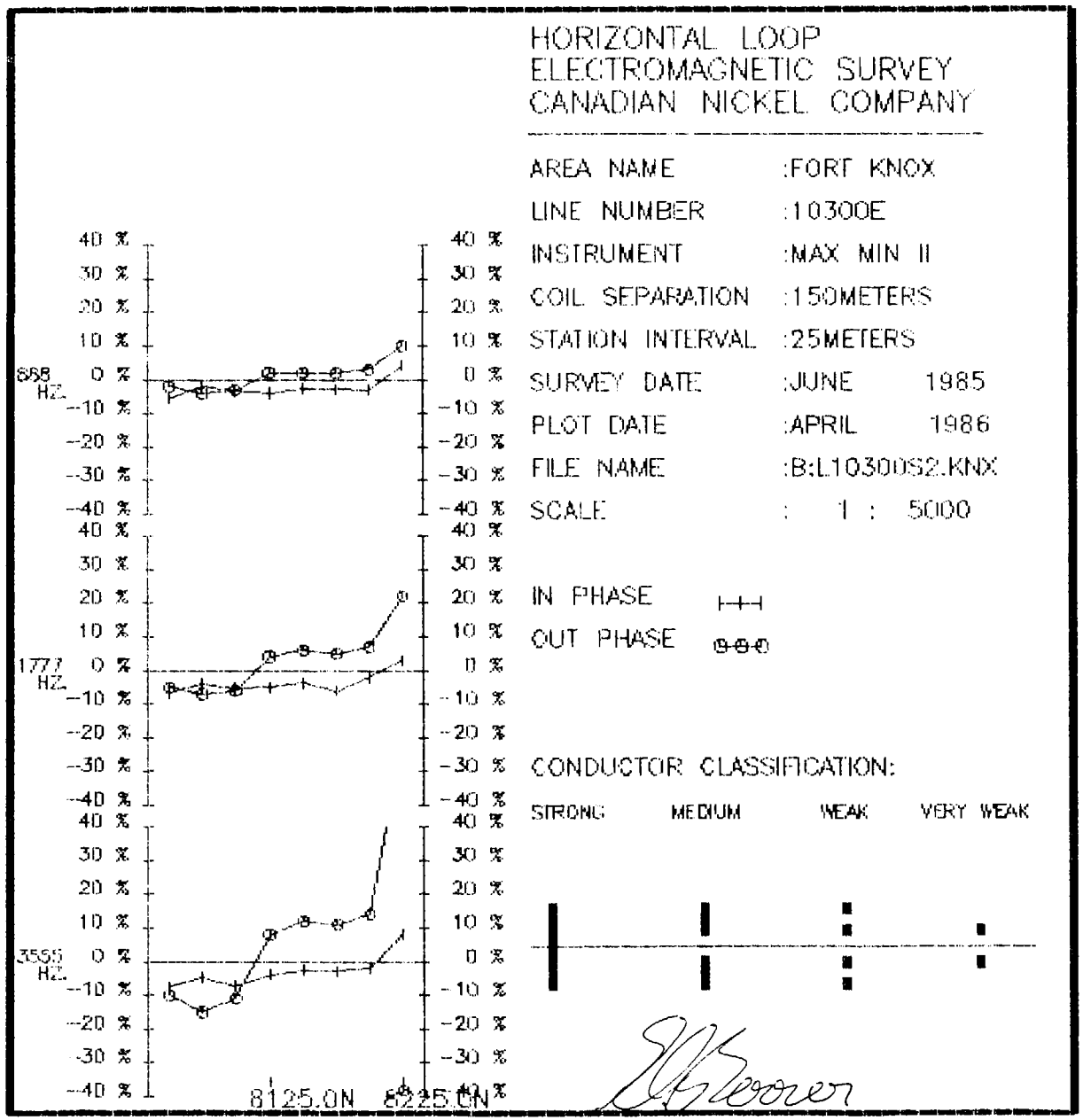

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :10200E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L10200S1.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
868 HZ
1777 HZ
3555 HZ
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7650.0N
7750.0N
7850.0N
7950.0N
8050.0N
8150.0N

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 10300E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L10300S2.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
8125N	7975N	8050N	-7.55	-10.	-8.	-6.55	-5.	-7.	-5.55	-2.	-6.	.45	-5.50
8150N	8000N	8075N	-4.80	-15.	-6.	-3.80	-7.	-5.	-1.80	-4.	-3.	1.20	-9.00
8175N	8025N	8100N	-7.27	-11.	-9.	-5.27	-6.	-7.	-3.27	-3.	-5.	1.73	-10.83
8200N	8050N	8125N	-3.97	8.	-5.	-4.97	4.	-6.	-3.97	2.	-5.	1.03	-8.33
8225N	8075N	8150N	-2.67	12.	-3.	-3.67	6.	-4.	-2.67	2.	-3.	.33	-4.67
8250N	8100N	8175N	-2.93	11.	-3.	-5.93	5.	-6.	-2.93	2.	-3.	.07	-2.17
8275N	8125N	8200N	-2.00	14.	-2.	-2.00	7.	-2.	-3.00	3.	-3.	.00	.17
8300N	8150N	8225N	8.12	42.	7.	3.12	22.	2.	4.12	10.	3.	1.12	8.67


HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :10300E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L10300S2.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
888 HZ.
1777 HZ.
3555 HZ.
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
8125.0N
8225.0N

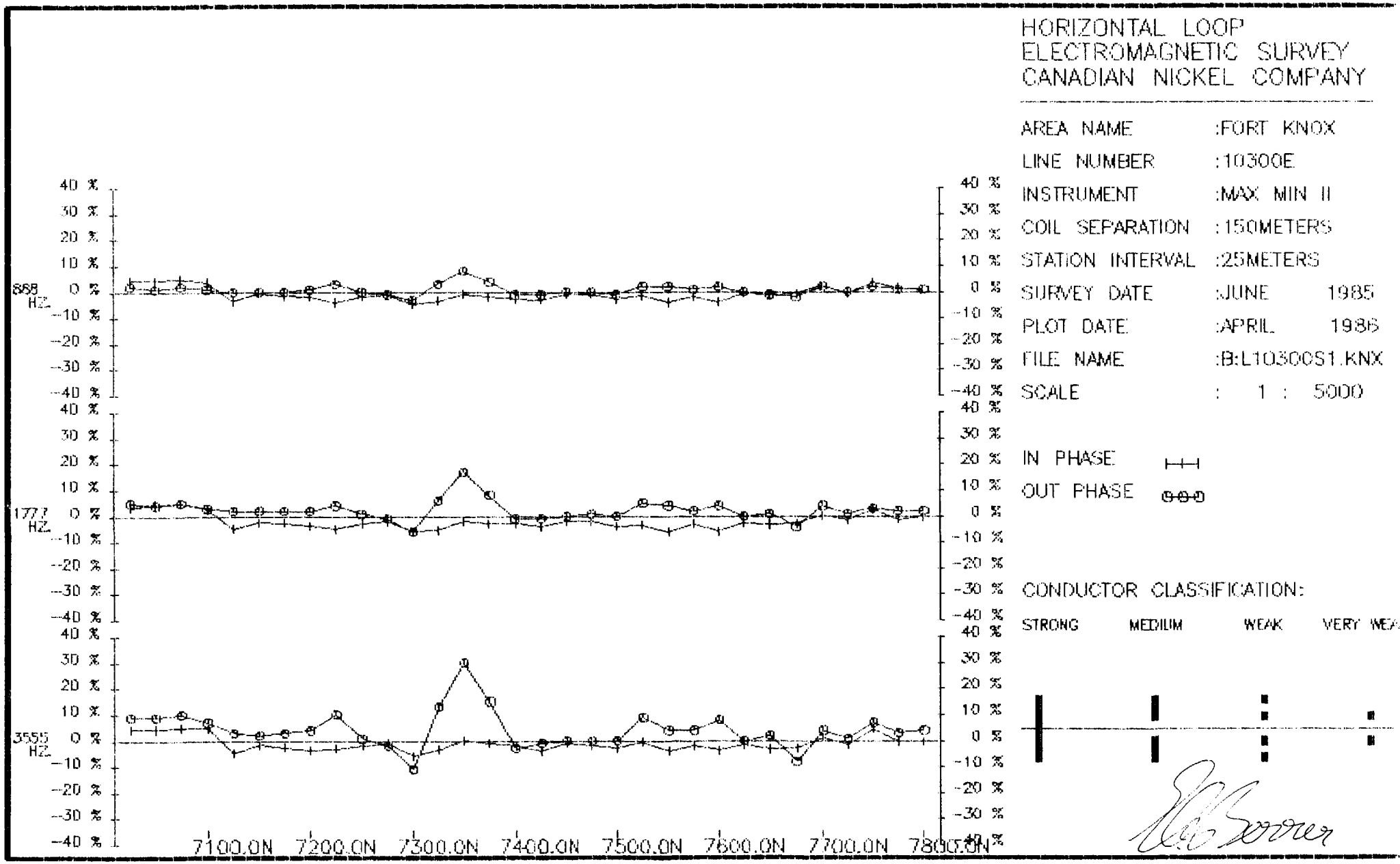
2.9/44

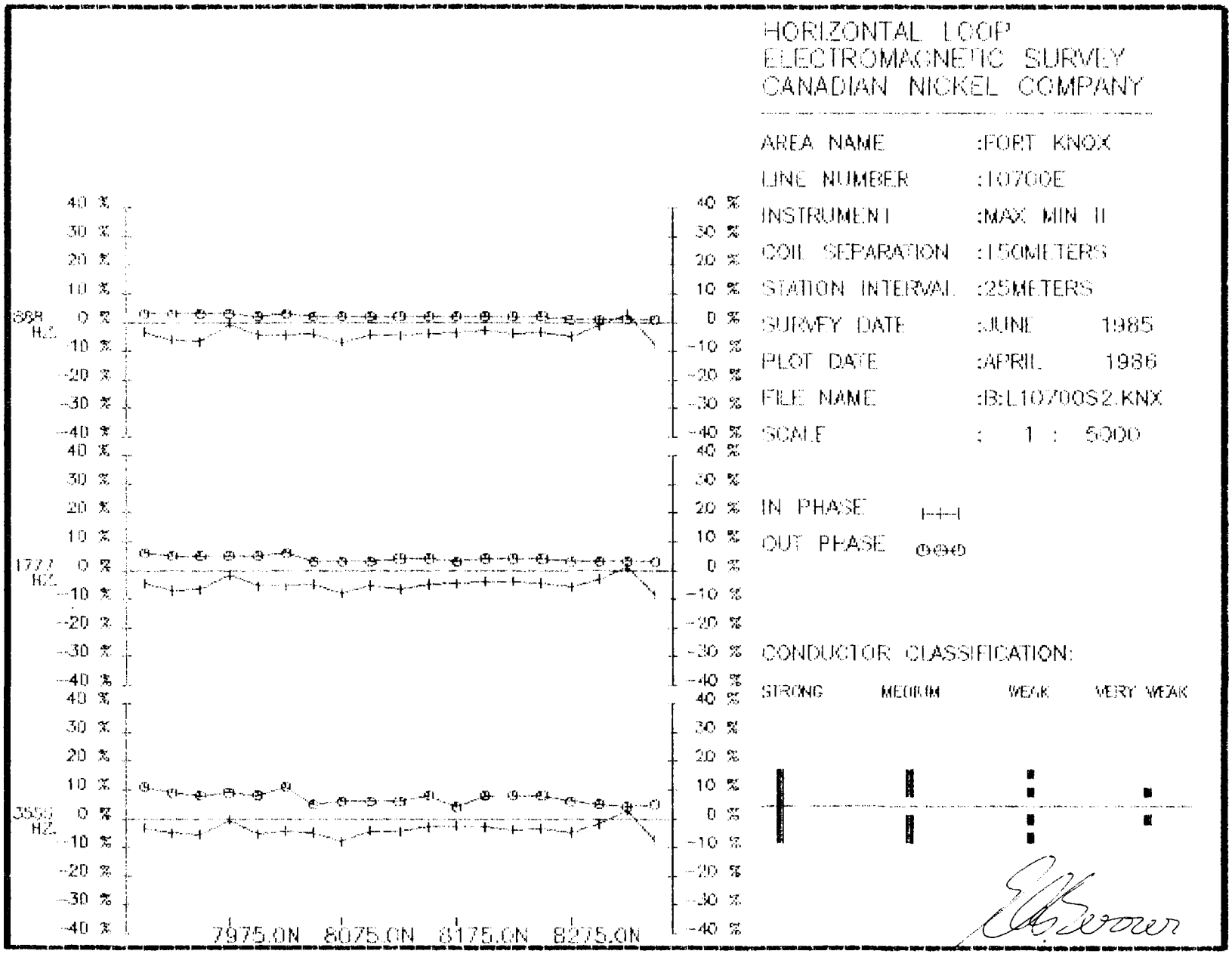
HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 10300E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L10300S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.			
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7100N	6950N	7025N	4.36	9.	-2.	3.36	5.	-3.	4.36	2.	-2.	6.36	-21.17
7125N	6975N	7050N	4.42	9.	0.	4.42	4.	0.	4.42	1.	0.	4.42	-17.50
7150N	7000N	7075N	5.06	10.	3.	5.06	5.	3.	5.06	2.	3.	2.06	-11.83
7175N	7025N	7100N	4.70	7.	4.	2.70	3.	2.	3.70	1.	3.	.70	-6.83
7200N	7050N	7125N	-4.72	3.	-5.	-4.72	2.	-5.	-3.72	0.	-4.	.28	4.33
7225N	7075N	7150N	-1.52	2.	-2.	-2.52	2.	-3.	-.52	0.	-1.	.48	5.67
7250N	7100N	7175N	-2.63	3.	-3.	-2.63	2.	-3.	-1.63	0.	-2.	.37	5.00
7275N	7125N	7200N	-3.76	4.	-4.	-3.76	2.	-4.	-1.76	1.	-2.	.24	4.00
7300N	7150N	7225N	-2.99	10.	-3.	-4.99	4.	-5.	-3.99	3.	-4.	.01	.83
7325N	7175N	7250N	-1.76	1.	-2.	-2.76	1.	-3.	-1.76	0.	-2.	.24	-4.00
7350N	7200N	7275N	-.97	-2.	-1.	-1.97	-1.	-2.	-.97	-1.	-1.	.03	-1.50
7375N	7225N	7300N	-5.76	-11.	-6.	-5.76	-6.	-6.	-4.76	-3.	-5.	.24	-4.00
7400N	7250N	7325N	-3.43	13.	-4.	-5.43	6.	-6.	-3.43	3.	-4.	.57	-6.17
7425N	7275N	7350N	.07	30.	0.	-1.93	17.	-2.	-.93	8.	-1.	.07	-2.17
7450N	7300N	7375N	-.88	15.	-1.	-2.88	8.	-3.	-1.88	4.	-2.	.12	2.83
7475N	7325N	7400N	-1.92	-3.	-2.	-2.92	-1.	-3.	-2.92	-1.	-3.	.08	2.33
7500N	7350N	7425N	-3.98	-1.	-4.	-3.98	-1.	-4.	-2.98	-1.	-3.	.02	-1.17
7525N	7375N	7450N	-.96	0.	-1.	-1.96	0.	-2.	-.96	0.	-1.	.04	1.67
7550N	7400N	7475N	-1.96	0.	-2.	-1.96	1.	-2.	-.96	0.	-1.	.04	1.67
7575N	7425N	7500N	-2.89	0.	-3.	-3.89	0.	-4.	-2.89	-1.	-3.	.11	-2.67
7600N	7450N	7525N	-.46	9.	-1.	-3.46	5.	-4.	-1.46	2.	-2.	.54	-6.00
7625N	7475N	7550N	-3.97	4.	4.	-5.97	4.	-6.	-3.97	2.	-4.	.03	-1.50
7650N	7500N	7575N	-1.99	4.	-2.	-2.99	2.	-3.	-1.99	1.	-2.	.01	-.67
7675N	7525N	7600N	-3.80	8.	-4.	-5.80	4.	-6.	-3.80	2.	-4.	.20	-3.67
7700N	7550N	7625N	-1.57	0.	-3.	-2.57	0.	-4.	-.57	0.	-2.	1.43	-9.83
7725N	7575N	7650N	-3.16	2.	-4.	-3.16	1.	-4.	-1.16	-1.	-2.	.84	-7.50
7750N	7600N	7675N	-2.82	-8.	-3.	-2.82	-4.	-3.	-.82	-2.	-1.	.18	-3.50
7775N	7625N	7700N	1.17	4.	1.	.17	4.	0.	2.17	2.	2.	.17	3.33
7800N	7650N	7725N	-1.67	1.	-2.	-1.67	1.	-2.	-.67	0.	-1.	.33	4.67
7825N	7675N	7750N	4.57	7.	4.	2.57	3.	2.	3.57	2.	3.	.57	6.17
7850N	7700N	7775N	-.33	3.	-3.	-1.33	2.	-4.	1.67	1.	-1.	2.67	13.50
7875N	7725N	7800N	-.27	4.	-2.	-.27	2.	-2.	.73	1.	-1.	1.73	10.83

2.9144


HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :10300E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L10300S1.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEA
868 HZ
1777 HZ
3555 HZ
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7100.0N
7200.0N
7300.0N
7400.0N
7500.0N
7600.0N
7700.0N
7800.0N


HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :10700E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L10700S2.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7975.0N
8075.0N
8175.0N
8275.0N

2.9/44

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

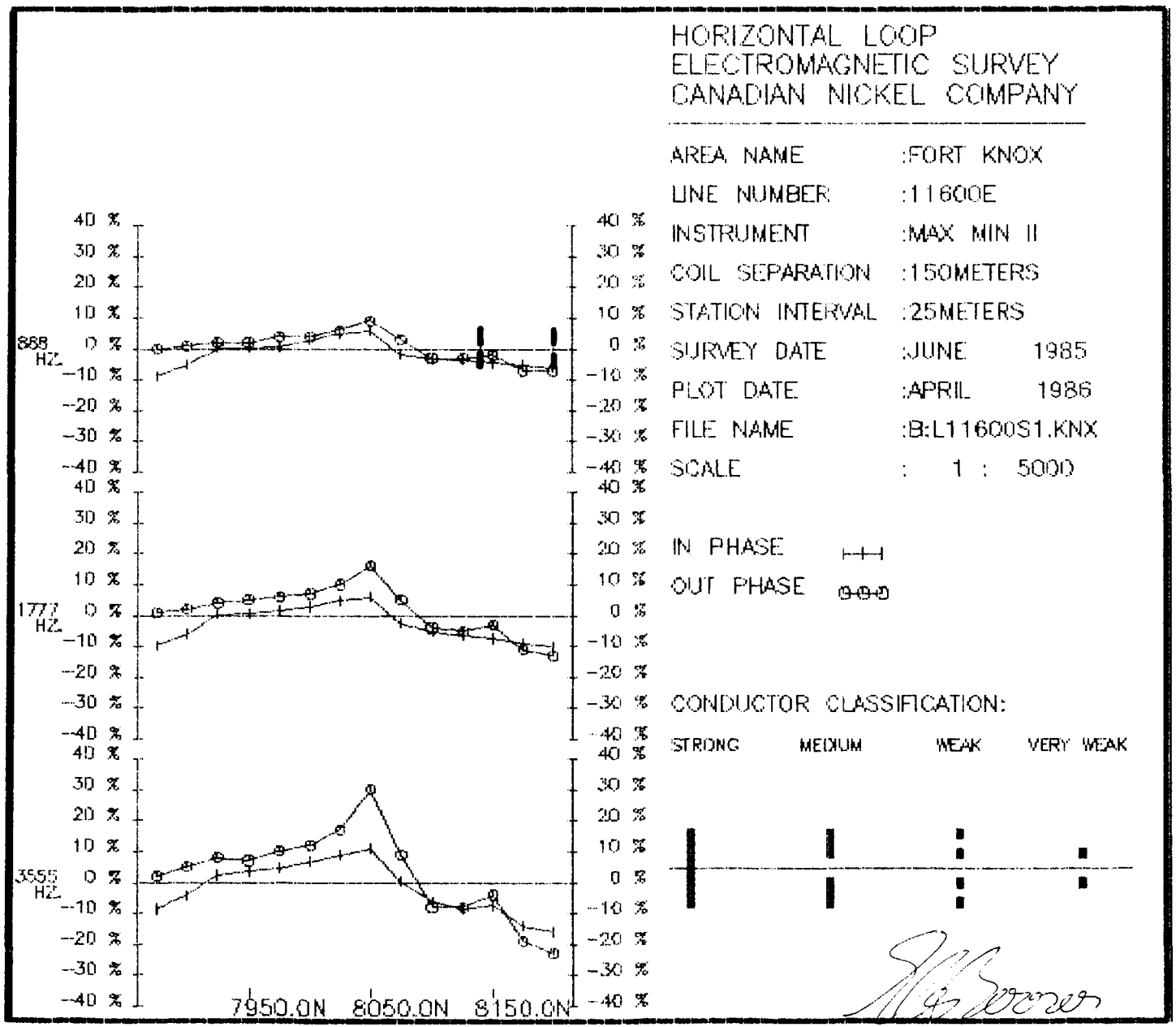
PREP NAME : FORT KNOX
LINE NUMBER : 10800E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L10800S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
6975N	7125N	7050N	-7.30	3.	-9.	-8.20	2.	-9.	-7.20	1.	-9.	.80	7.33
7000N	7150N	7075N	-8.01	3.	-9.	-9.01	2.	-10.	-7.01	1.	-8.	.99	8.17
7025N	7175N	7100N	-10.34	7.	-11.	-11.34	4.	-12.	-9.34	2.	-10.	.56	6.67
7050N	7200N	7125N	-8.34	7.	-9.	-9.34	4.	-10.	-8.34	2.	-9.	.66	5.67
7075N	7225N	7150N	-8.65	6.	-9.	-9.65	3.	-10.	-7.65	2.	-8.	.35	4.83
7100N	7250N	7175N	-8.72	9.	-9.	-8.72	5.	-9.	-7.72	3.	-8.	.28	4.33
7125N	7275N	7200N	-8.83	9.	-9.	-9.83	5.	-10.	-7.83	3.	-8.	.17	3.33
7150N	7300N	7225N	-7.88	6.	-8.	-8.88	4.	-9.	-7.88	2.	-8.	.12	2.83
7175N	7325N	7250N	-6.74	3.	-7.	-7.74	2.	-8.	-7.74	2.	-8.	.26	4.17
7200N	7350N	7275N	-4.34	3.	-5.	-5.34	3.	-6.	-5.34	2.	-6.	.66	6.67
7225N	7375N	7300N	.07	7.	-3.	-1.93	5.	-5.	-1.93	3.	-5.	3.07	14.50
7250N	7400N	7325N	1.48	5.	-1.	-.52	5.	-3.	-.52	3.	-3.	2.48	13.00
7275N	7425N	7350N	4.06	5.	2.	.06	4.	-2.	.06	2.	-2.	2.06	11.83
7300N	7450N	7375N	-7.39	-3.	-10.	-5.99	-3.	-8.	-2.99	-3.	-5.	2.01	11.67
7325N	7475N	7400N	-13.88	-2.	-15.	-10.88	-4.	-12.	-5.88	-4.	-7.	1.12	9.67
7350N	7500N	7425N	-19.67	-3.	-20.	-15.67	-5.	-16.	-11.67	-5.	-12.	.33	4.67
7375N	7525N	7450N	-21.87	-2.	-22.	-18.87	-3.	-19.	-13.87	-4.	-14.	.13	-3.00
7400N	7550N	7475N	-19.98	-1.	-20.	-16.98	-3.	-17.	-12.98	-3.	-13.	.02	-1.00
7425N	7575N	7500N	-16.96	2.	-17.	-15.96	0.	-16.	-12.96	-1.	-13.	.04	1.67
7450N	7600N	7525N	-7.00	12.	-7.	-8.00	7.	-8.	-7.00	4.	-7.	.00	.00
7475N	7625N	7550N	-5.98	13.	-6.	-6.98	8.	-7.	-5.98	4.	-6.	.02	1.00
7500N	7650N	7575N	-6.00	17.	-6.	-7.00	9.	-7.	-7.00	5.	-7.	.00	.50
7525N	7675N	7600N	-5.00	9.	-5.	-5.00	5.	-5.	-5.00	3.	-5.	.00	.33
7550N	7700N	7625N	-6.00	5.	-6.	-6.00	3.	-6.	-6.00	3.	-6.	.00	.32
7575N	7725N	7650N	-4.98	5.	-5.	-5.98	3.	-6.	-3.98	3.	-4.	.02	-1.00
7600N	7750N	7675N	-5.99	4.	-6.	-6.99	3.	-7.	-5.99	1.	-6.	.01	.83
7625N	7775N	7700N	-8.89	4.	-9.	-9.89	2.	-10.	-9.89	1.	-9.	.11	-2.67
7650N	7800N	7725N	-9.80	2.	-10.	-9.80	2.	-10.	-8.80	1.	-9.	.20	-3.67
7675N	7825N	7750N	-7.40	8.	-8.	-9.40	5.	-11.	-8.40	2.	-9.	.60	-6.33
7700N	7850N	7775N	-9.93	6.	-10.	-8.93	4.	-9.	-8.93	2.	-9.	.07	-2.17
7725N	7875N	7800N	-8.98	5.	-9.	-7.98	2.	-8.	-6.98	1.	-7.	.02	1.17
7750N	7900N	7825N	-1.97	4.	-2.	-.97	2.	-1.	.03	1.	0.	.03	-1.50
7775N	7925N	7850N	-1.97	3.	-2.	-2.97	1.	-3.	-.97	1.	-1.	.03	1.50
7800N	7950N	7875N	-3.82	3.	-4.	-3.82	0.	-4.	-1.82	0.	-2.	.19	3.50
7825N	7975N	7900N	-5.27	3.	-6.	-5.27	2.	-6.	-3.27	1.	-4.	.73	7.00
7850N	8000N	7925N	-4.98	7.	-5.	-4.98	4.	-5.	-3.98	2.	-4.	.02	1.17
7875N	8025N	7950N	-3.72	10.	-4.	-3.72	6.	-4.	-4.72	3.	-5.	.28	-4.33
7900N	8050N	7975N	-2.52	13.	-3.	-4.52	7.	-5.	-4.52	4.	-5.	.49	-5.67
7925N	8075N	8000N	-5.43	6.	-6.	-6.43	4.	-7.	-5.43	2.	-6.	.57	-6.17
7950N	8100N	8025N	-13.37	0.	-14.	-11.37	-1.	-12.	-9.37	-2.	-10.	.63	-6.50
7975N	8125N	8050N	-18.71	-2.	-20.	-15.71	-4.	-17.	-12.71	-4.	-14.	1.29	-9.33
8000N	8150N	8075N	-23.33	-1.	-25.	-20.33	-3.	-22.	-16.33	-4.	-19.	1.07	-8.50
8025N	8175N	8100N	-17.37	-4.	-19.	-14.37	-5.	-15.	-10.37	-4.	-11.	.63	-6.50
8050N	8200N	8125N	-9.93	-3.	-10.	-8.93	-3.	-9.	-5.93	-3.	-6.	.17	3.33
8075N	8225N	8150N	5.29	9.	4.	4.29	4.	3.	4.29	2.	3.	1.29	9.37
8100N	8250N	8175N	13.73	10.	13.	10.73	7.	9.	9.73	4.	8.	1.73	10.83
8125N	8275N	8200N	11.55	8.	9.	7.55	6.	5.	7.55	4.	5.	2.55	13.17

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11600E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11600S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7950N	7800N	7875N	-8.70	2.	-8.	-9.70	1.	-9.	-8.70	0.	-8.	-.70	-7.50
7975N	7825N	7900N	-4.08	5.	-3.	-6.08	2.	-5.	-5.08	1.	-4.	-1.08	-8.83
8000N	7850N	7925N	2.31	8.	4.	.31	4.	2.	.31	2.	2.	-1.69	-7.33
8025N	7875N	7950N	3.44	7.	6.	.44	5.	3.	.44	2.	3.	-2.56	-5.33
8050N	7900N	7975N	4.65	10.	8.	1.65	6.	5.	.65	4.	4.	-3.35	-.50
8075N	7925N	8000N	6.75	12.	11.	2.75	7.	7.	2.75	4.	7.	-4.25	7.00
8100N	7950N	8025N	8.75	17.	13.	4.75	10.	9.	4.75	6.	9.	-4.25	7.00
8125N	7975N	8050N	10.89	30.	14.	5.89	16.	9.	5.89	9.	9.	-3.11	17.33
8150N	8000N	8075N	.31	9.	4.	-2.69	5.	1.	-1.69	3.	2.	-3.69	15.67
8175N	8025N	8100N	-6.20	-8.	-2.	-5.20	-4.	-1.	-3.20	-3.	1.	-4.20	13.33
8200N	8050N	8125N	-8.47	-8.	-4.	-6.47	-5.	-2.	-3.47	-3.	1.	-4.47	10.50
8225N	8075N	8150N	-7.39	-4.	-4.	-7.39	-3.	-4.	-4.39	-2.	-1.	-3.39	5.50
8250N	8100N	8175N	-14.06	-19.	-11.	-9.06	-11.	-6.	-5.06	-7.	-2.	-3.06	6.67
8275N	8125N	8200N	-16.00	-23.	-16.	-10.00	-13.	-10.	-6.00	-7.	-6.	.00	.00

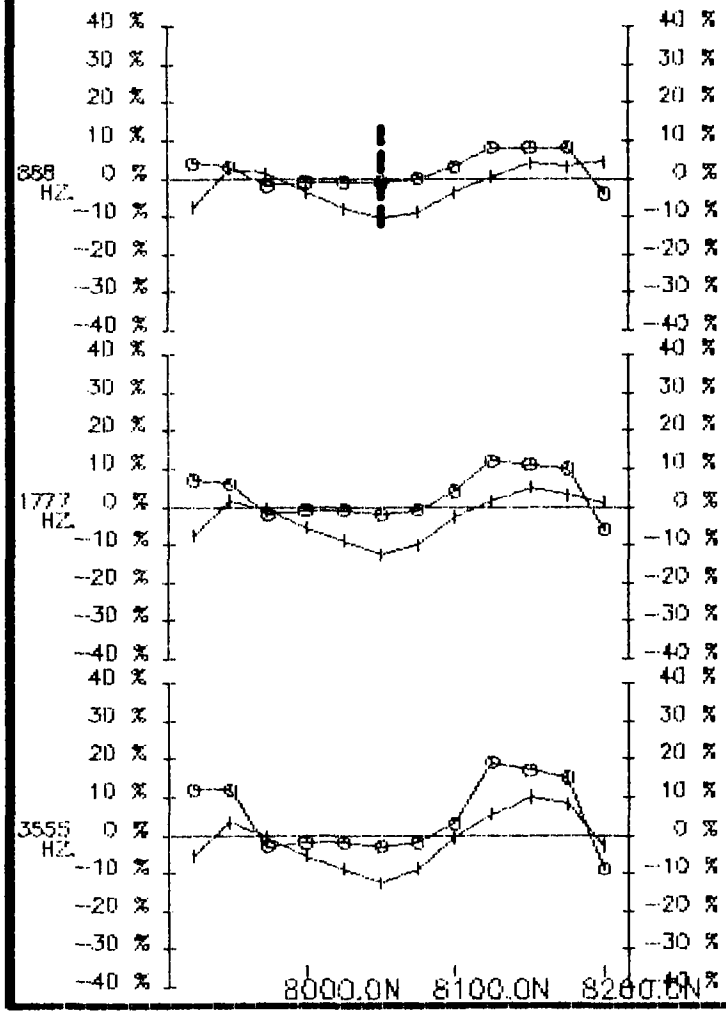

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :11600E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L11600S1.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
888 HZ
1777 HZ
3555 HZ
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7950.0N
8050.0N
8150.0N

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11200E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11200S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
8000N	7850N	7925N	-5.65	12.	-4.	-7.65	7.	-6.	-7.65	4.	-6.	-1.65	4.00
8025N	7875N	7950N	3.53	12.	4.	1.53	6.	2.	2.53	3.	3.	-.47	6.83
8050N	7900N	7975N	-.60	-3.	0.	-.60	-2.	0.	1.40	-2.	2.	-.60	5.50
8075N	7925N	8000N	-5.54	-2.	1.	-5.54	-1.	1.	-3.54	-1.	3.	-6.54	-2.67
8100N	7950N	8025N	-9.01	-2.	-2.	-9.01	-1.	-2.	-8.01	-1.	-1.	-7.01	-8.17
8125N	7975N	8050N	-12.56	-3.	-7.	-12.56	-2.	-7.	-10.56	-1.	-5.	-5.56	-12.00
8150N	8000N	8075N	-8.99	-2.	-5.	-9.99	-1.	-6.	-8.99	0.	-5.	-3.99	-15.33
8175N	8025N	8100N	-.78	3.	3.	-2.78	4.	1.	-3.78	3.	0.	-3.78	-15.83
8200N	8050N	8125N	5.42	19.	9.	1.42	12.	5.	.42	8.	4.	-3.58	-16.33
8225N	8075N	8150N	9.93	17.	11.	4.93	11.	6.	3.93	8.	5.	-1.07	-7.33
8250N	8100N	8175N	8.14	15.	9.	3.14	10.	4.	3.14	8.	4.	-.86	-1.17
8275N	8125N	8200N	-2.72	-9.	-2.	1.28	-6.	2.	4.28	-4.	5.	-.72	-.33



HORIZONTAL LOOP ELECTROMAGNETIC SURVEY CANADIAN NICKEL COMPANY

AREA NAME	:FORT KNOX
LINE NUMBER	:11200E
INSTRUMENT	:MAX MIN II
COIL SEPARATION	:150METERS
STATION INTERVAL	:25METERS
SURVEY DATE	:JUNE 1985
PLOT DATE	:APRIL 1986
FILE NAME	:B:L11200S1.KNX
SCALE	: 1 : 5000

IN PHASE

OUT PHASE

CONDUCTOR CLASSIFICATION:

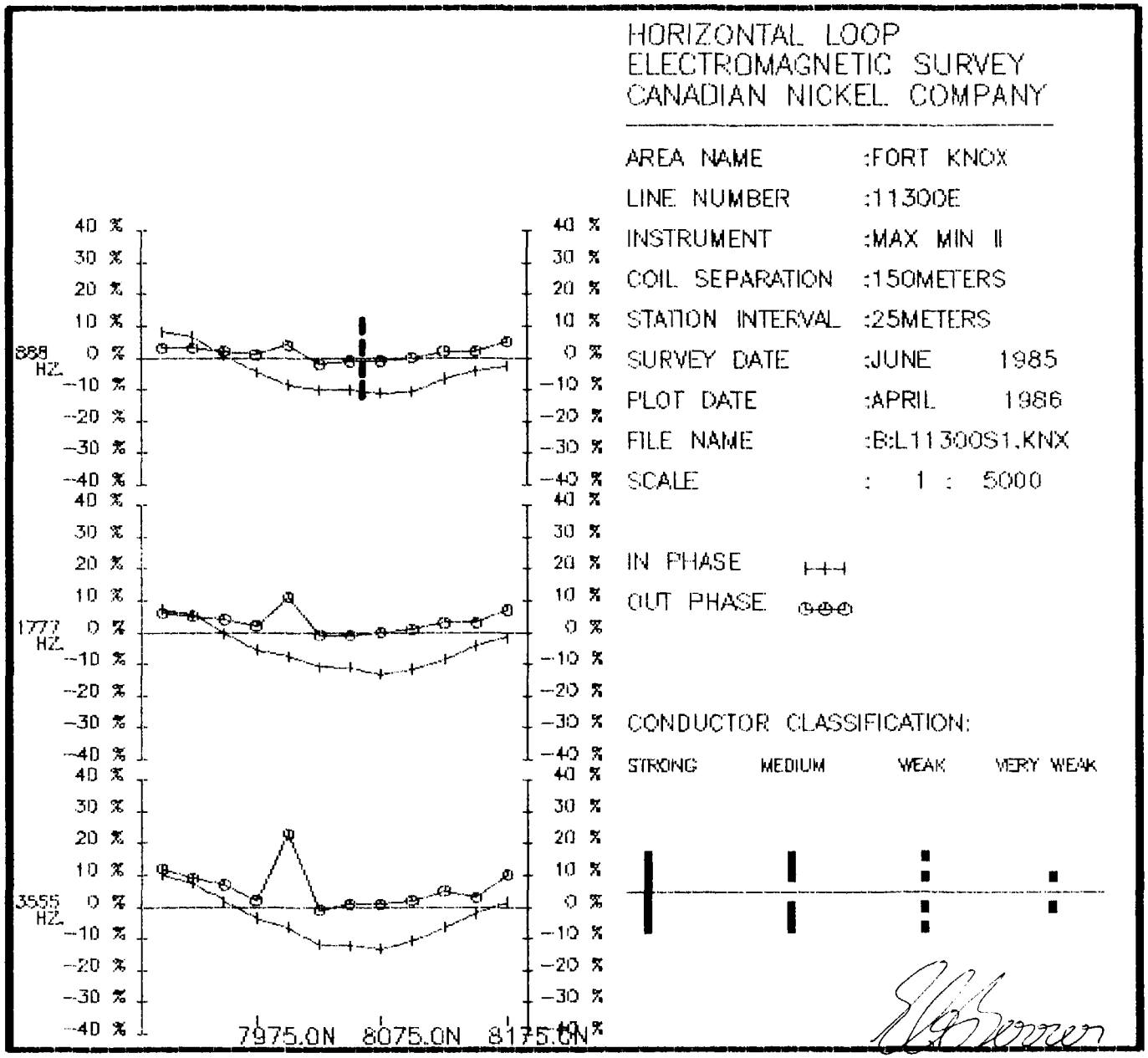
STRONG MEDIUM WEAK VERY WEAK

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11300E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11300S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7825N	7975N	7900N	10.12	12.	12.	7.12	6.	9.	8.12	3.	10.	-1.88	-9.83
7850N	8000N	7925N	7.60	9.	10.	5.60	5.	8.	6.60	3.	9.	-2.40	-8.83
7875N	8025N	7950N	1.76	7.	6.	-.24	4.	4.	.76	2.	5.	-4.24	-2.50
7900N	8050N	7975N	-3.61	2.	0.	-5.61	2.	-2.	-4.61	1.	-1.	-3.61	3.00
7925N	8075N	8000N	-6.51	23.	-2.	-7.51	11.	-3.	-8.51	4.	-4.	-4.51	1.50
7950N	8100N	8025N	-11.98	-1.	-7.	-10.98	-1.	-6.	-9.98	-2.	-5.	-4.98	-2.00
7975N	8125N	8050N	-12.12	1.	-4.	-11.12	-1.	-3.	-10.12	-1.	-2.	-8.12	10.00
8000N	8150N	8075N	-13.15	1.	-5.	-13.15	0.	-5.	-11.15	-1.	-3.	-8.15	10.33
8025N	8175N	8100N	-10.60	2.	-3.	-11.60	1.	-4.	-10.60	0.	-3.	-7.60	7.83
8050N	8200N	8125N	-6.50	5.	1.	-9.50	3.	-1.	-6.50	2.	1.	-7.50	6.33
8075N	8225N	8150N	-2.08	3.	3.	-4.08	3.	1.	-4.08	2.	1.	-5.08	11.67
8100N	8250N	8175N	1.45	10.	5.	-1.55	7.	2.	-2.55	5.	1.	-3.55	14.17

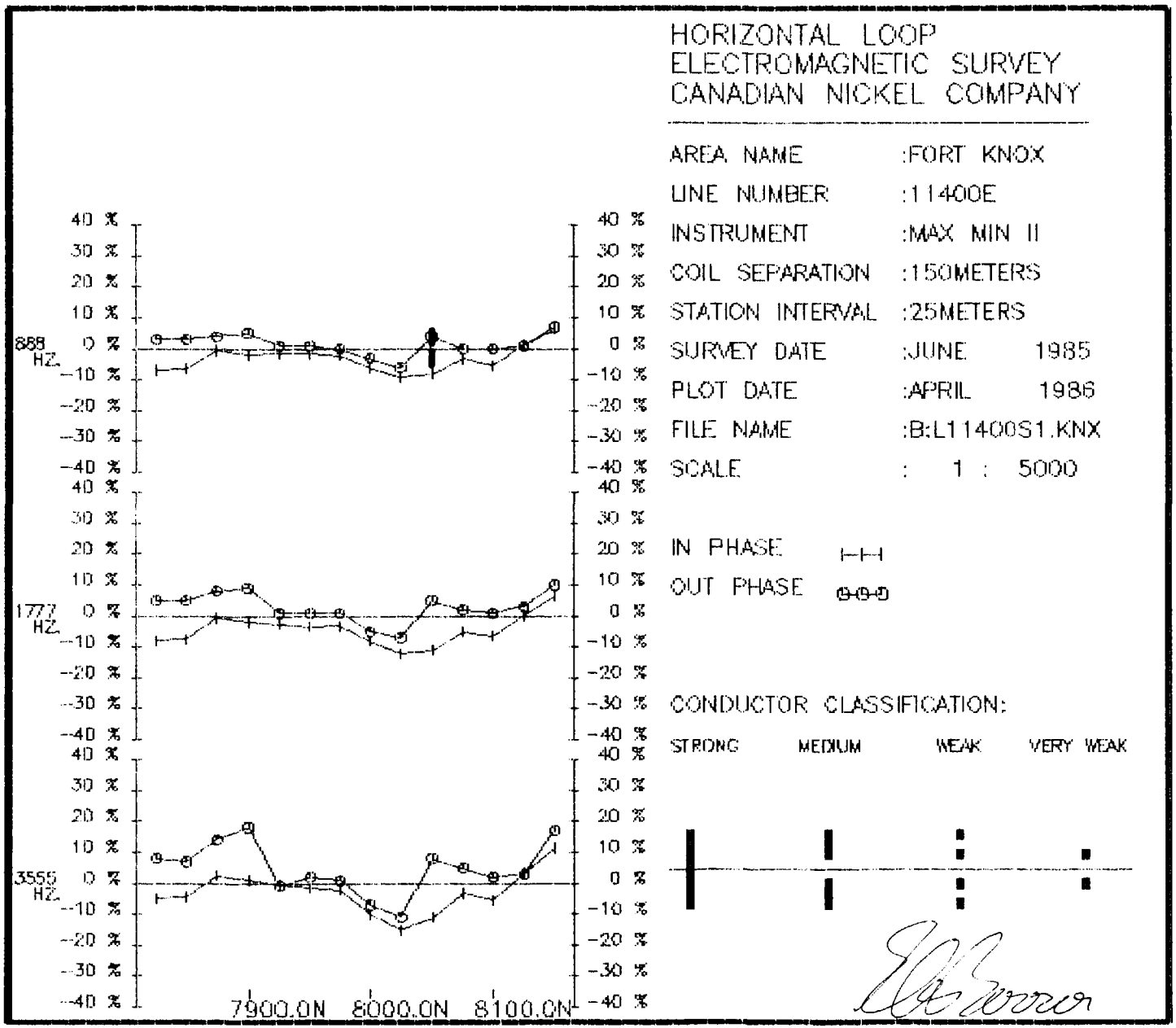

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :11300E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L11300S1.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
888 HZ
1777 HZ
3555 HZ
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7975.0N
8075.0N
8175.0N

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11400E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11400S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.			
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7900N	7750N	7825N	-4.94	8.	-1.	-7.94	5.	-4.	-6.94	3.	-3.	-3.94	.33
7925N	7775N	7850N	-4.47	7.	2.	-7.47	5.	-1.	-6.47	3.	0.	-6.47	5.33
7950N	7800N	7875N	2.39	14.	7.	-.61	8.	4.	-.61	4.	4.	-4.61	15.50
7975N	7825N	7900N	1.06	18.	4.	-1.94	9.	1.	-1.94	5.	1.	-2.94	18.33
8000N	7850N	7925N	-.63	-1.	2.	-2.63	1.	0.	-1.63	1.	1.	-2.63	18.83
8025N	7875N	7950N	-1.53	2.	3.	-3.53	1.	1.	-1.53	1.	3.	-4.53	15.00
8050N	7900N	7975N	-2.24	1.	2.	-3.24	1.	1.	-2.24	0.	2.	-4.24	13.50
8075N	7925N	8000N	-10.07	-7.	-7.	-8.07	-5.	-5.	-6.07	-3.	-3.	-3.07	7.67
8100N	7950N	8025N	-15.18	-11.	-14.	-12.18	-7.	-11.	-9.18	-6.	-8.	-1.18	.50
8125N	7975N	8050N	-11.10	8.	-4.	-11.10	5.	-4.	-8.10	4.	-1.	-7.10	-10.33
8150N	8000N	8075N	-3.17	5.	5.	-5.17	2.	3.	-3.17	0.	5.	-8.17	-16.50
8175N	8025N	8100N	-5.39	2.	3.	-6.39	1.	2.	-5.39	0.	3.	-8.39	-15.50
8200N	8050N	8125N	3.22	3.	11.	.22	3.	8.	1.22	1.	9.	-7.78	-16.17
8225N	8075N	8150N	11.22	17.	19.	6.22	10.	14.	6.22	7.	14.	-7.78	-16.17

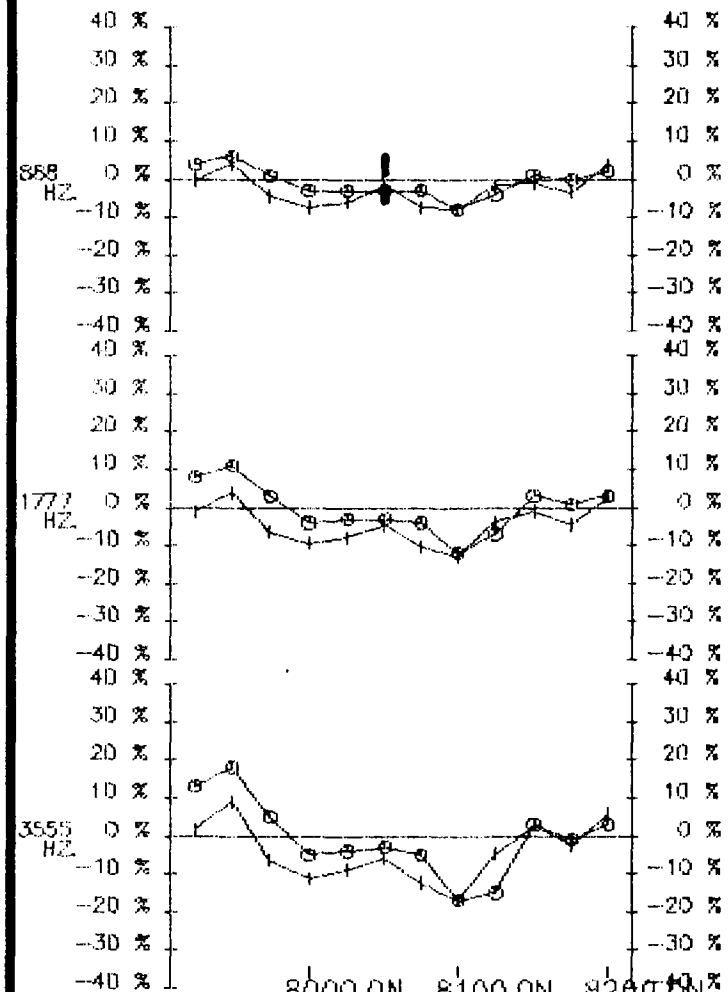

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY
AREA NAME :FORT KNOX
LINE NUMBER :11400E
INSTRUMENT :MAX MIN II
COIL SEPARATION :150METERS
STATION INTERVAL :25METERS
SURVEY DATE :JUNE 1985
PLOT DATE :APRIL 1986
FILE NAME :B:L11400S1.KNX
SCALE : 1 : 5000
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFICATION:
STRONG
MEDIUM
WEAK
VERY WEAK
888 HZ.
1777 HZ.
3555 HZ.
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7900.0N
8000.0N
8100.0N

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11500E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11500S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7850N	8000N	7925N	1.83	13.	6.	-1.17	8.	3.	-.17	4.	4.	-4.17	-2.17
7875N	8025N	7950N	8.98	18.	14.	3.98	11.	9.	3.98	6.	9.	-5.02	-10.50
7900N	8050N	7975N	-6.41	5.	-4.	-6.41	3.	-4.	-4.41	1.	-2.	-2.41	-16.17
7925N	8075N	8000N	-11.41	-5.	-9.	-9.41	-4.	-7.	-7.41	-3.	-5.	-2.41	-16.17
7950N	8100N	8025N	-8.95	-4.	-5.	-7.95	-3.	-4.	-5.95	-3.	-2.	-3.95	-7.50
7975N	8125N	8050N	-5.96	-3.	-1.	-4.96	-3.	0.	-1.96	-3.	3.	-4.96	-3.33
8000N	8150N	8075N	-12.50	-5.	-6.	-10.50	-4.	-4.	-7.50	-3.	-1.	-6.50	-7.50
8025N	8175N	8100N	-16.97	-17.	-12.	-12.97	-12.	-8.	-7.97	-8.	-3.	-4.97	-5.00
8050N	8200N	8125N	-4.66	-15.	0.	-3.66	-7.	1.	-1.66	-4.	3.	-4.66	-2.50
8075N	8225N	8150N	2.97	3.	14.	-1.03	3.	10.	-1.03	1.	10.	-11.03	6.67
8100N	8250N	8175N	-2.43	-1.	8.	-4.43	1.	6.	-3.43	0.	7.	-10.43	4.67
8125N	8275N	8200N	5.88	3.	16.	2.88	3.	13.	3.88	2.	14.	-10.12	1.33



HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME	:FORT KNOX
LINE NUMBER	:11500E
INSTRUMENT	:MAX MIN II
COIL SEPARATION	:150METERS
STATION INTERVAL	:25METERS
SURVEY DATE	:JUNE 1985
PLOT DATE	:APRIL 1986
FILE NAME	:B:L11500S1.KNX
SCALE	: 1 : 5000

IN PHASE

OUT PHASE

CONDUCTOR CLASSIFICATION:

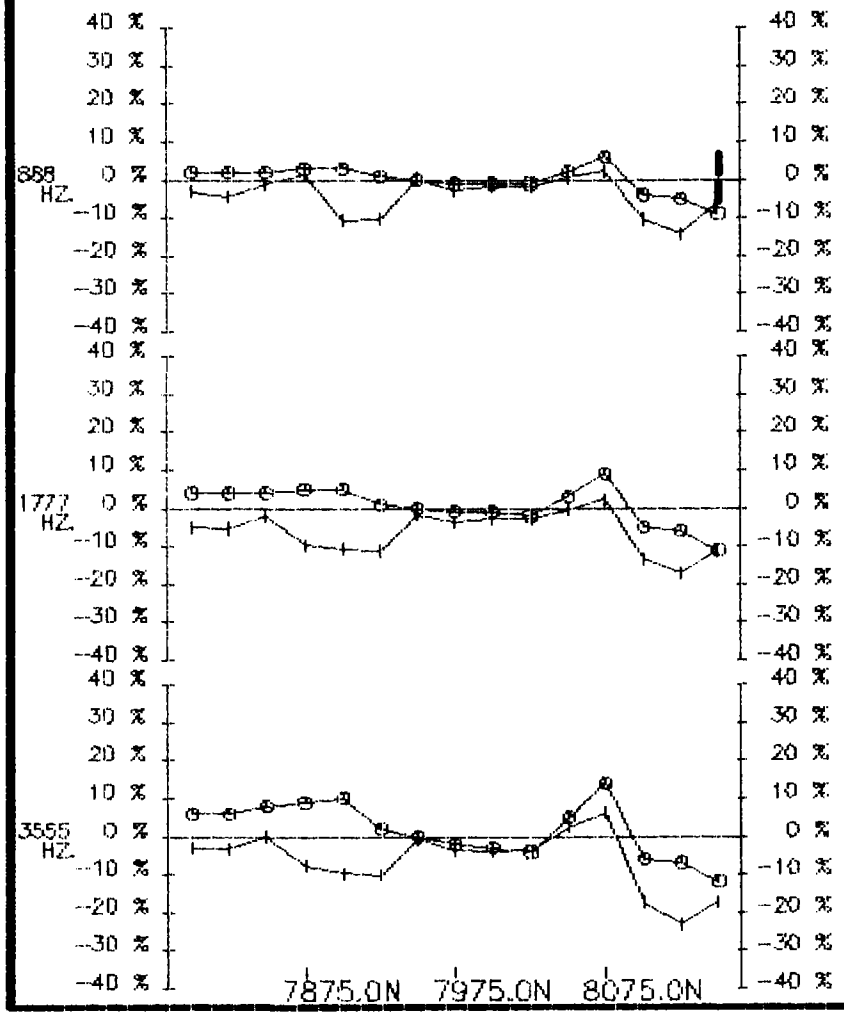
STRONG MEDIUM WEAK VERY WEAK

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11100E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11100S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TX STATION	RX STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR APP	AV. GR.
7725N	7875N	7800N	-2.97	6.	1.	-4.97	4.	-1.	-2.97	2.	1.	-3.97	1.50
7750N	7900N	7825N	-3.28	6.	1.	-5.28	4.	-1.	-4.28	2.	0.	-4.28	1.00
7775N	7925N	7850N	-.06	8.	4.	-2.06	4.	2.	-1.06	2.	3.	-4.06	-8.33
7800N	7950N	7875N	-7.66	9.	-4.	-9.66	5.	-6.	1.34	3.	5.	-3.66	-5.33
7825N	7975N	7900N	-9.60	10.	-6.	-10.60	5.	-7.	-10.60	3.	-7.	-3.60	-5.83
7850N	8000N	7925N	-10.25	2.	-5.	-11.25	1.	-6.	-10.25	1.	-5.	-5.25	-3.17
7875N	8025N	7950N	-.74	0.	5.	-1.74	0.	4.	.26	0.	6.	-5.74	-2.33
7900N	8050N	7975N	-3.71	-2.	1.	-3.71	-1.	1.	-2.71	-1.	2.	-4.71	.50
7925N	8075N	8000N	-3.83	-3.	-2.	-2.83	-1.	-1.	-1.83	-1.	0.	-1.83	6.17
7950N	8100N	8025N	-3.73	-4.	-2.	-2.73	-2.	-1.	-1.73	-1.	0.	-1.73	6.67
7975N	8125N	8050N	2.53	5.	4.	-.47	3.	1.	.53	2.	2.	-1.47	8.00
8000N	8150N	8075N	6.26	14.	7.	2.26	9.	3.	2.26	6.	3.	-.74	4.50
8025N	8175N	8100N	-17.39	-6.	-17.	-13.39	-5.	-13.	-10.39	-4.	-10.	-.39	3.50
8050N	8200N	8125N	-23.22	-7.	-23.	-17.22	-6.	-17.	-14.22	-5.	-14.	-.22	5.00
8075N	8225N	8150N	-17.22	-12.	-17.	-11.22	-11.	-11.	-6.22	-9.	-6.	-.22	5.00



HORIZONTAL LOOP ELECTROMAGNETIC SURVEY CANADIAN NICKEL COMPANY

AREA NAME	:FORT KNOX
LINE NUMBER	:11100E
INSTRUMENT	:MAX MIN II
COIL SEPARATION	:150METERS
STATION INTERVAL	:25METERS
SURVEY DATE	:JUNE 1985
PLOT DATE	:APRIL 1986
FILE NAME	:B:L1110051.KNX
SCALE	: 1 : 5000

IN PHASE

OUT PHASE

CONDUCTOR CLASSIFICATION:

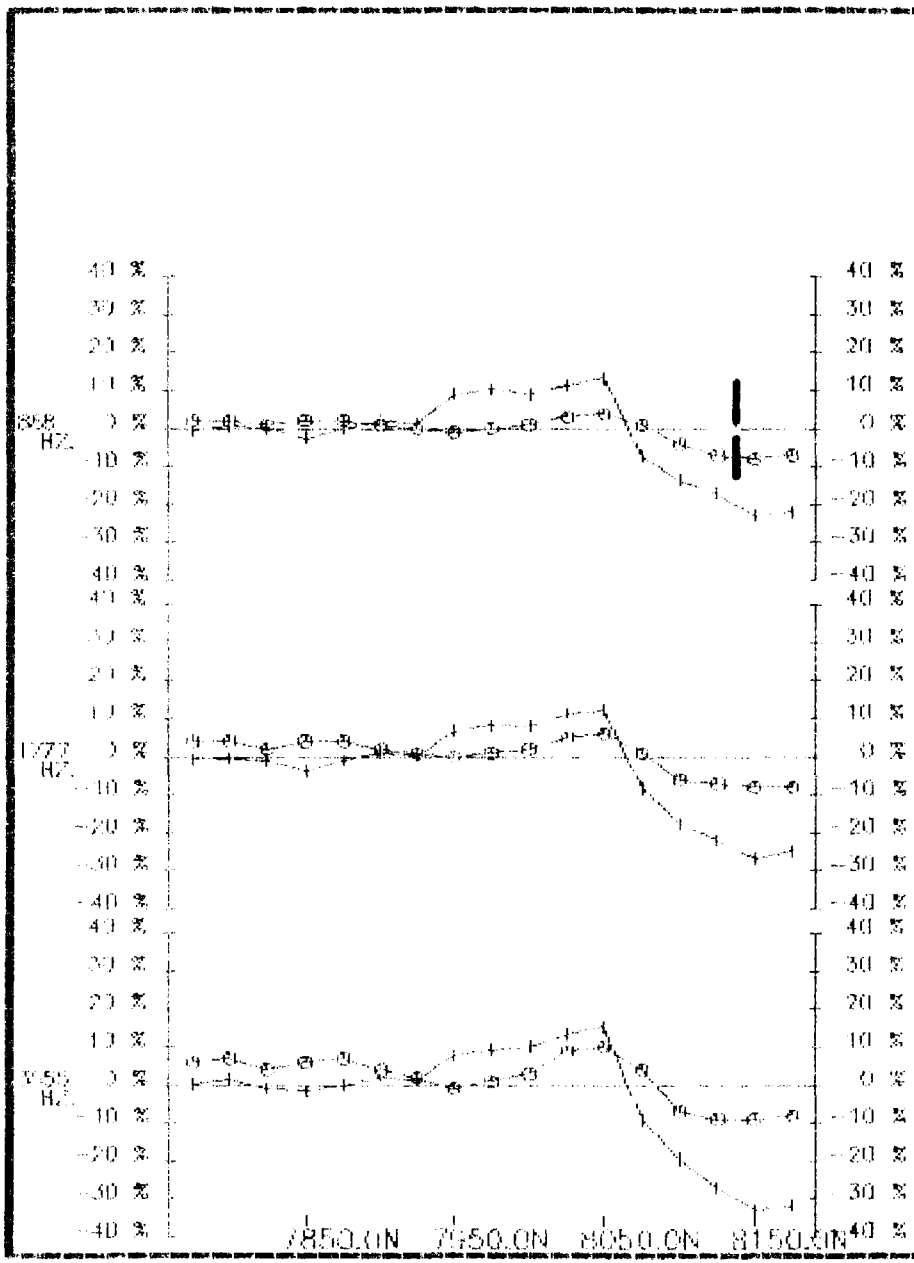
STRONG MEDIUM WEAK VERY WEAK

2.9144

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 11000E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L11000SE.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			888. HZ.				
TY STATION	PY STATION	PLOT POINT	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR IN PHASE	OUT	IN	COR PPP	PY. CR.
7850N	7700N	7775N	.20	6.	-1.	-.80	4.	-2.	-.80	3.	-2.	1.20	9.00
7875N	7725N	7800N	1.48	7.	0.	-.52	4.	-2.	.48	2.	-1.	1.48	10.00
7900N	7750N	7825N	-.85	4.	-1.	-.85	3.	-1.	.15	1.	0.	.15	3.17
7925N	7775N	7850N	-1.67	6.	-2.	-3.67	4.	-4.	-2.67	2.	-3.	.33	4.67
7950N	7800N	7875N	.00	7.	0.	-1.00	4.	-1.	.00	2.	0.	.00	-.17
7975N	7825N	7900N	2.00	4.	2.	1.00	2.	1.	2.00	1.	2.	.00	.00
8000N	7850N	7925N	1.30	2.	1.	.30	1.	0.	1.30	0.	1.	.30	-4.50
8025N	7875N	7950N	7.77	-1.	7.	6.77	1.	5.	8.77	-1.	8.	.77	-7.17
8050N	7900N	7975N	9.22	1.	9.	8.22	1.	9.	10.22	0.	10.	.22	-3.83
8075N	7925N	8000N	10.01	2.	10.	8.01	2.	9.	9.01	1.	9.	.01	-.67
8100N	7950N	8025N	13.35	9.	13.	11.35	5.	11.	11.35	3.	11.	.35	4.83
8125N	7975N	8050N	15.26	10.	15.	12.26	6.	12.	13.26	4.	13.	.26	4.17
8150N	8000N	8075N	-9.23	4.	-10.	-8.23	1.	-9.	-7.23	1.	-8.	.77	7.17
8175N	8025N	8100N	-19.65	-7.	-20.	-17.65	-6.	-18.	-13.65	-4.	-14.	.35	4.83
8200N	8050N	8125N	-26.93	-9.	-27.	-21.93	-7.	-22.	-16.93	-7.	-17.	.07	3.17
8225N	8075N	8150N	-33.91	-9.	-33.	-26.91	-6.	-27.	-22.91	-8.	-23.	.09	-3.50
8250N	8100N	8175N	-31.87	-8.	-32.	-24.87	-8.	-25.	-21.87	-7.	-22.	.13	-3.00



HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME	:FORT KNOX
LINE NUMBER	:11000E
INSTRUMENT	:MAX MIN II
COIL SEPARATION	:150METERS
STATION INTERVAL	:25METERS
SURVEY DATE	:JUNE 1985
PLOT DATE	:APRIL 1986
FILE NAME	:0:L11000S2.KNX
SCALE	: 1 : 5000

IN PHASE
OUT PHASE

CONDUCTOR CLASSIFICATION:

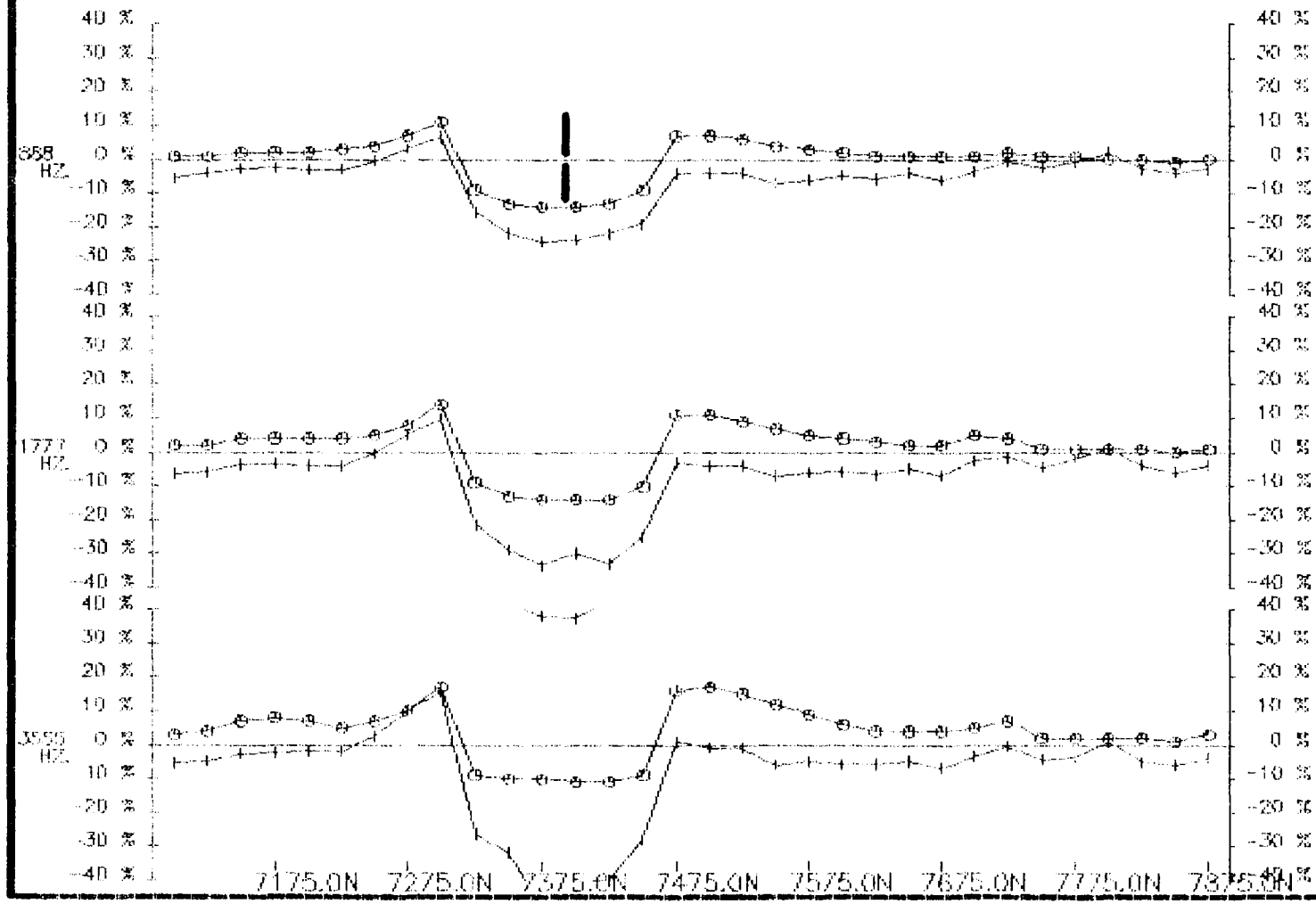
STRONG MEDIUM WEAK VERY WEAK

2.9144

2.9144

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY CANADIAN NICKEL COMPANY

AREA NAME	:FORT KNOX
LINE NUMBER	:10700E
INSTRUMENT	:MAX MIN II
COIL SEPARATION	:150METERS
STATION INTERVAL	:25METERS
SURVEY DATE	:JUNE 1985
PLOT DATE	:APRIL 1986
FILE NAME	:B:L10700S1.KNX
SCALE	: 1 : 5000



IN PHASE

OUT PHASE

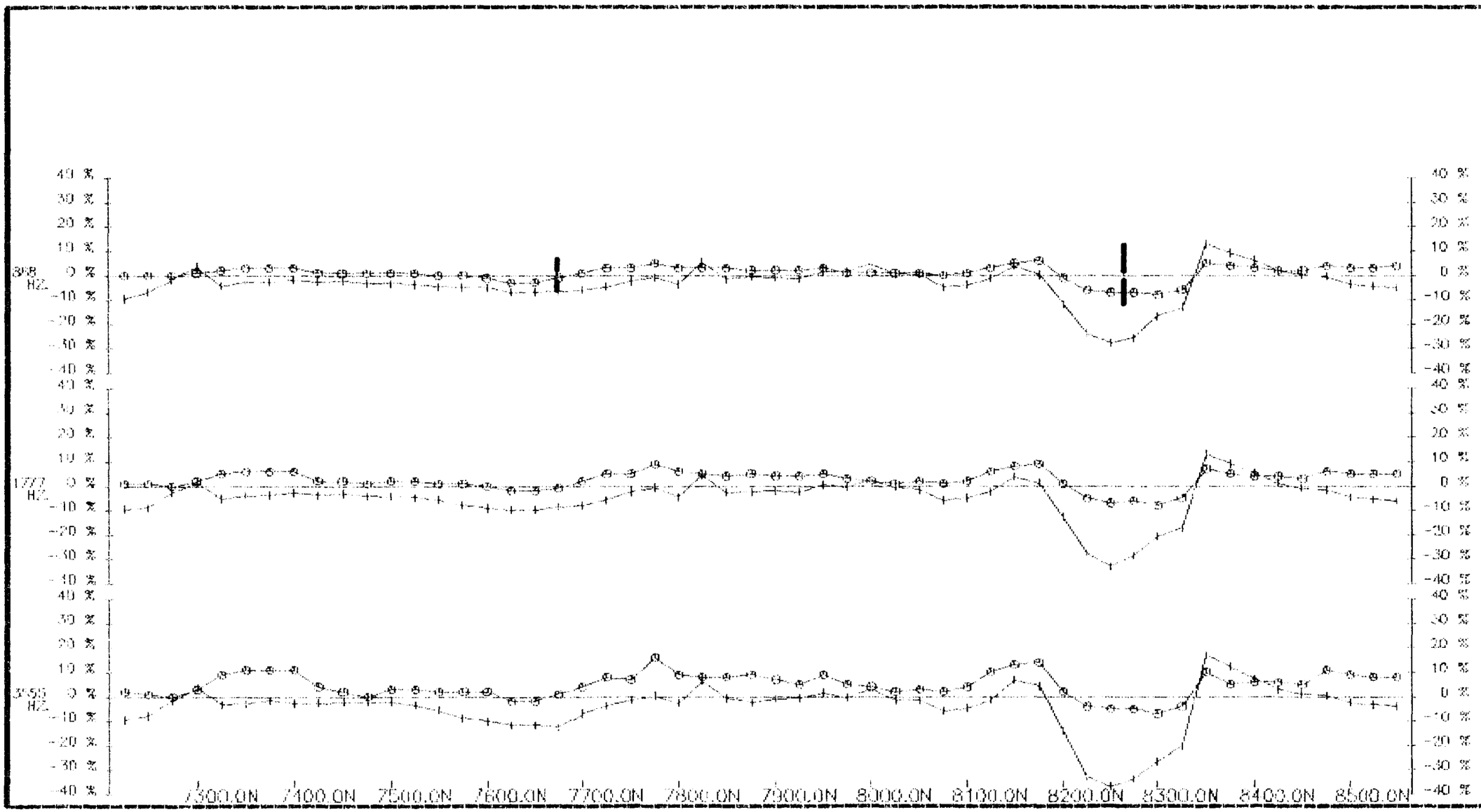
CONDUCTOR CLASSIFICATION:

STRONG MEDIUM WEAK VERY WEA

HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
CANADIAN NICKEL COMPANY

AREA NAME : FORT KNOX
LINE NUMBER : 10900E
INSTRUMENT : MAX MIN II
COIL SEPARATION : 150. METERS
STATION INTERVAL : 25. METERS
SURVEY DATE : JUNE 1985
PLOT DATE : APRIL 1986
FILE NAME : B:L10900S1.KNX
SCALE 1 : 5000.0

			3555. HZ.			1777. HZ.			988. HZ.				
TX STATION	RX STATION	PLOT POINT	CDR IN PHASE	OUT	IN	CDR IN PHASE	OUT	IN	CDR IN PHASE	OUT	IN	COR APP	AV. DR.
7150N	7300N	7225N	-9.52	2.	-10.	-9.52	1.	-10.	-9.52	0.	-10.	.48	-5.67
7175N	7325N	7250N	-7.80	1.	-9.	-8.80	1.	-10.	-6.80	0.	-8.	1.20	-9.00
7200N	7350N	7275N	-1.61	0.	-3.	-3.61	0.	-4.	-1.61	0.	-3.	1.39	-9.67
7225N	7375N	7300N	3.66	3.	3.	1.66	2.	1.	3.66	1.	3.	.66	-6.67
7250N	7400N	7325N	-3.23	9.	-4.	-5.23	5.	-9.	-4.23	2.	-5.	.77	-7.17
7275N	7425N	7350N	-2.93	11.	-4.	-3.93	6.	-8.	-2.93	3.	-4.	1.07	-8.50
7300N	7450N	7375N	-1.57	11.	-3.	-3.57	6.	-5.	-2.57	3.	-4.	1.43	-9.83
7325N	7475N	7400N	-2.71	11.	-4.	-2.71	9.	-4.	-1.71	3.	-3.	1.29	-9.33
7350N	7500N	7425N	-2.66	4.	-4.	-3.66	2.	-5.	-2.66	1.	-4.	1.34	-9.50
7375N	7525N	7450N	-3.12	2.	-3.	-3.12	2.	-4.	-2.12	1.	-3.	.88	-7.67
7400N	7550N	7475N	-2.12	0.	-3.	-4.12	1.	-5.	-3.12	1.	-4.	.88	-7.67
7425N	7575N	7500N	-2.27	3.	-3.	-4.27	2.	-5.	-3.27	1.	-4.	.73	-7.00
7450N	7600N	7525N	-3.55	3.	-4.	-4.55	2.	-5.	-3.55	1.	-4.	.45	-5.50
7475N	7625N	7550N	-5.55	2.	-6.	-5.55	1.	-6.	-4.55	0.	-5.	.45	-5.50
7500N	7650N	7575N	-8.82	2.	-9.	-7.82	1.	-8.	-4.62	0.	-5.	.18	-3.50
7525N	7675N	7600N	-10.05	2.	-11.	-9.05	0.	-10.	-5.05	-1.	-6.	.95	-8.00
7550N	7700N	7625N	-11.75	-2.	-13.	-9.75	-2.	-11.	-6.75	-3.	-8.	1.25	-9.17
7575N	7725N	7650N	-11.75	-2.	-13.	-9.75	-2.	-11.	-6.75	-3.	-8.	1.25	-9.17
7600N	7750N	7675N	-12.57	1.	-14.	-8.57	-1.	-10.	-6.57	-1.	-8.	1.43	-3.83
7625N	7775N	7700N	-6.97	4.	-8.	-7.97	3.	-9.	-5.97	1.	-7.	1.03	-8.33
7650N	7800N	7725N	-2.75	3.	-5.	-5.75	3.	-7.	-4.75	3.	-6.	1.25	-9.17
7675N	7825N	7750N	-1.30	7.	-2.	-2.30	5.	-3.	-2.30	3.	-3.	.70	-6.83
7700N	7850N	7775N	.34	16.	-1.	-.66	9.	-3.	-.66	5.	-3.	1.34	-9.50
7725N	7875N	7800N	-2.61	9.	-4.	-4.61	6.	-6.	-3.61	3.	-5.	1.39	-9.67
7750N	7900N	7825N	6.29	9.	5.	4.29	5.	3.	5.29	3.	4.	1.29	-9.33
7775N	7925N	7850N	-.66	8.	-2.	-2.66	4.	-4.	-1.66	3.	-3.	1.34	-9.50
7800N	7950N	7875N	-2.52	9.	-3.	-3.52	5.	-3.	-.52	2.	-1.	.48	-5.67
7825N	7975N	7900N	-.98	7.	-1.	-1.98	4.	-2.	-.98	2.	-1.	.02	-1.00
7850N	8000N	7925N	-.63	5.	-1.	-2.63	4.	-3.	-1.63	3.	-2.	.37	5.00
7875N	8025N	7950N	1.57	9.	1.	.57	5.	0.	1.57	3.	1.	.57	6.17
7900N	8050N	7975N	-.43	5.	-1.	-.43	3.	-1.	1.57	1.	1.	.57	6.17
7925N	8075N	8000N	3.29	4.	2.	2.29	2.	1.	4.29	1.	2.	1.29	9.33
7950N	8100N	8025N	-1.46	3.	-2.	-.46	1.	-1.	.54	1.	0.	.54	6.00
7975N	8125N	8050N	-1.63	3.	-3.	-1.63	3.	-2.	.37	1.	0.	.37	5.00
8000N	8150N	8075N	-5.98	3.	-6.	-5.98	1.	-6.	-4.98	0.	-5.	.02	1.00
8025N	8175N	8100N	-4.82	4.	-5.	-4.82	2.	-5.	-3.82	1.	-4.	.18	-3.50
8050N	8200N	8125N	-1.37	10.	-2.	-2.37	6.	-3.	-1.37	3.	-2.	.63	-6.50
8075N	8225N	8150N	5.73	13.	5.	3.73	8.	2.	3.73	5.	2.	1.73	-10.83
8100N	8250N	8175N	4.25	14.	3.	1.25	9.	0.	.25	8.	-1.	1.25	-9.17
8125N	8275N	8200N	-13.80	2.	-15.	-12.80	1.	-14.	-11.80	-1.	-13.	1.20	-8.00
8150N	8300N	8225N	-32.85	-4.	-33.	-27.85	-5.	-28.	-23.85	-6.	-24.	.15	-3.17
8175N	8325N	8250N	-36.87	-5.	-37.	-32.87	-7.	-33.	-27.87	-7.	-28.	.13	3.00
8200N	8350N	8275N	-33.71	-5.	-35.	-28.71	-5.	-30.	-25.71	-7.	-27.	1.29	9.33
8225N	8375N	8300N	-26.76	-7.	-29.	-20.76	-8.	-23.	-16.76	-9.	-19.	3.24	12.33
8250N	8400N	8325N	-20.20	-4.	-23.	-17.20	-5.	-20.	-13.20	-6.	-16.	2.80	13.83
8275N	8425N	8350N	-15.95	10.	-15.	-13.95	7.	-11.	-12.95	5.	-11.	1.95	11.50
8300N	8450N	8375N	-12.19	5.	-11.	-9.19	5.	-9.	-9.19	4.	-9.	1.19	8.67
8325N	8475N	8400N	7.33	6.	7.	5.33	4.	5.	6.33	3.	6.	.33	4.67
8350N	8500N	8425N	3.12	6.	3.	1.12	4.	1.	3.12	3.	2.	.12	2.83
8375N	8525N	8450N	1.03	5.	1.	-.97	3.	-1.	.03	2.	0.	.03	1.33
8400N	8550N	8475N	.54	11.	0.	-1.46	5.	-2.	-.46	4.	-1.	.54	-6.00
8425N	8575N	8500N	-2.61	9.	-4.	-4.61	5.	-5.	-3.61	3.	-5.	1.39	-9.67
8450N	8600N	8525N	-3.37	8.	-5.	-5.37	5.	-7.	-4.37	3.	-6.	1.63	-10.50
8475N	8625N	8550N	-4.05	8.	-5.	-6.05	5.	-7.	-5.05	4.	-6.	.95	-9.00



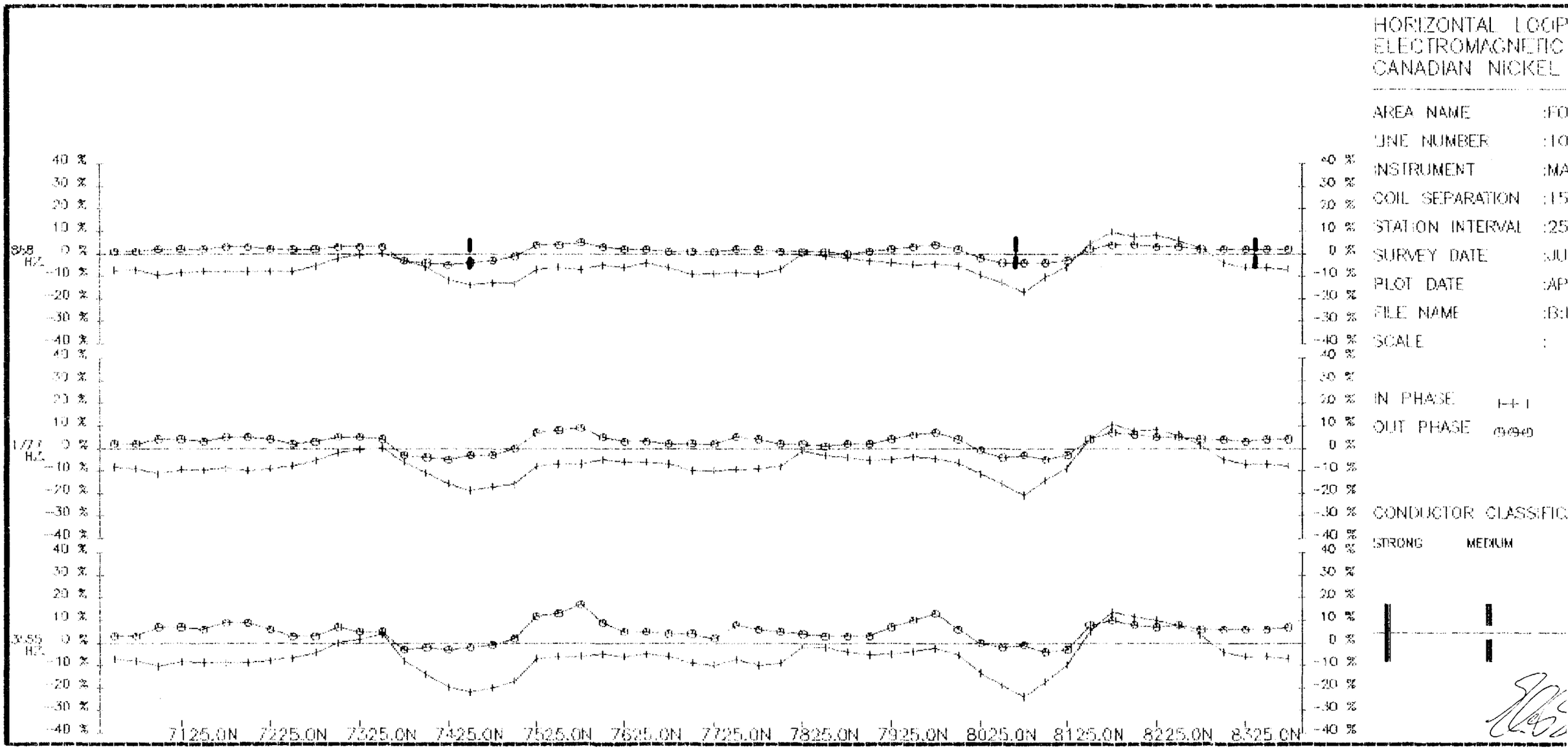
HORIZONTAL LOOP
ELECTROMAGNETIC
CANADIAN NICKEL

AREA NAME :FO
LINE NUMBER :10
INSTRUMENT :MA
COIL SEPARATION :15
STATION INTERVAL :25
SURVEY DATE :JU
PLOT DATE :AP
FILE NAME :B:
SCALE :

IN PHASE
OUT PHASE

CONDUCTOR CLASSIFIC

STRONG MEDIUM


HORIZONTAL LOOP
ELECTROMAGNETIC
CANADIAN NICKEL
AREA NAME :FO
LINE NUMBER :10
INSTRUMENT :MA
COIL SEPARATION :15
STATION INTERVAL :25
SURVEY DATE :JU
PLOT DATE :AP
FILE NAME :B:
SCALE :
IN PHASE
OUT PHASE
CONDUCTOR CLASSIFIC
STRONG
MEDIUM
40 %
30 %
20 %
10 %
0 %
-10 %
-20 %
-30 %
-40 %
7125.0N
7225.0N
7325.0N
7425.0N
7525.0N
7625.0N
7725.0N
7825.0N
7925.0N
8025.0N
8125.0N
8225.0N
8325.0N

900

Mining Lands Section

File No 2.9144

Control Sheet

TYPE OF SURVEY

- ✓ GEOPHYSICAL
- ____ GEOLOGICAL
- ✓ GEOCHEMICAL
- ____ EXPENDITURE

MINING LANDS COMMENTS:

D Hurst

Signature of Assessor

June 5/86

Date

Lgd D

Ministry of Northern Affairs and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

2.9144 R.P

W-86-01-00058

June 11 #58.86

Instructions - Please type or print
- If number of mining claims traversed exceeds space on this form, attach a list.

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey(s)
Geological and Geophysical (HLEM)

Township or Area
Code (M-1962)

Claim Holder(s)
William T. Knox W-86-01-00058

Prospector's Licence No.
H-11620

Address
#1300 33 Yonge St., Toronto . Ontario M5E 1T1

Survey Company
Canadian Nickel Company Limited

Date of Survey (from & to)
16 Day | 06 Mo. | 85 Yr. | 03 Day | 07 Mo. | 85 Yr.

Total Miles of line Cut
13 km

Name and Address of Author (of Geo Technical report)
A. Burton/E.K. Berrer, c/o Canadian Nickel Company Limited, Copper Cliff, Ontario POM 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days (This includes line cutting)	Geophysical HLEM - Electromagnetic	20
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	825152	
	825153	
	825154	
	825155	
	825156	
	825157	
	825158	
	825159	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MINING LANDS SECTION

K [illegible]
MINING DIVISION
RECEIVED
APR 22 1986
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

825151

Total number of mining claims covered by this report of work. 8

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
320	April 22/86	
	Date Approved as Recorded	Branch Director
	April 22/86	

Date: April 18, 1986

Recorded Holder or Agent (Signature): I.D. McCaskill

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
I.D. McCaskill, c/o Canadian Nickel Company Limited

Copper Cliff, Ontario POM 1NO

Date Certified: April 18, 1986

Certified by (Signature): I.D. McCaskill

1362 (85/9)

#59-86

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

2.9144

W-86-01-00059

Mining Act

Instructions - Please type or print
If number of mining claims traversed exceeds space on this form, attach a list.
Note - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
Do not use shaded areas below.

Type of Survey(s)
Geophysical (Magnetic and V.L.F. - E.M.)

Township or Area
Code (M-1962)

Claim Holder(s)
William T. Knox W86-01-00059

Prospector's Licence No.
H-11620

Address
#1300 33 Yonge Street, Toronto, Ontario M5E 1T1

Survey Company
Canadian Nickel Company Limited

Date of Survey (from & to) (Day / Mo. / Yr.)
16 06 85 03 07 85

Total Miles of line Cut
13 km

Name and Address of Author (of Geo Technical report)
A. Burton/E.K. Berrer, c/o Canadian Nickel Company Limited, Copper Cliff, Ontario POM 1NO

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical VLF - Electromagnetic	20
	- Magnetometer	40
For each additional survey using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
K	825151	
	825152	
	825153	
	825154	
	825155	
	825156	
	825157	
	825158	
	825159	

Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
APR 22 1986
MINING LANDS SECTION

KENORA
MINING DIV.
RECEIVED
APR 22 1986
AM 7 8 9 10 11 12 1 2 PM

825151

Total number of mining claims covered by this report of work: 9

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded: 540

Date Recorded: April 22/86

Mining Recorder: [signature]

Date Approved as Recorded: 16 1. 86

Branch Director: [signature]

Date: April 17, 1986

Recorded Holder or Agent (Signature): [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
I.D. McCaskill, c/o Canadian Nickel Company Limited
Copper CLiff, Ontario POM 1NO

Date Certified: April 20, 1986

Certified by (Signature): [signature]

1362 (81/9)

Canadian Nickel Company Limited

Copper Cliff • Ontario P0M 1N0

May 27, 1986

Ministry of Northern Development
and Mines
Land Management Branch
Whitney Block, 6th. Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Attention: J.C. Smith, Supervisor, Mining Lands Section

Dear Sir:

Re: Fort Knox Gold Resources Inc., N.T.S. 52-F-Gen.1.4.3

Enclosed in duplicate are geological and geophysical survey reports being submitted under the Special Provisions Section as assessment work on the following claims located in Code Township (M-1962).

K 825151-159 incl.

The report of work covering this submission was forwarded to Mr. Mark Hall in Kenora and subsequently recorded on April 22, 1986.

I trust that this report will be considered satisfactory.

Yours truly,

W.V. Rodney
Exploration Department

IM/cb

Enclosures:

Exploration subsidiary of

INCO LIMITED

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1056 Number of Readings mag=1056; EM=1056

Station interval 12.5 metre Line spacing 100 metre

Profile scale 1 cm = 10^0

Contour interval 100 gammas

MAGNETIC

Instrument Geometrics G-816 Proton

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base line tie-ins

Base Station check-in interval (hours) 1 hour

Base Station location and value Base line stations at each cross line

ELECTROMAGNETIC

Instrument Crone Radem V.L.F.

Coil configuration Vertical Loop

Coil separation Variable

Accuracy ± 1/2 degree

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency NSS Anapolis, Maryland 21.4 Khz (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

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_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 514 Number of Readings 514

Station interval 25 metre Line spacing

Profile scale 1 cm = 20%

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Apex MaxMin II

Coil configuration Horizontal Loop

Coil separation 150 metres

Accuracy ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 888, 1777, 3555 Hz
(specify V.L.F. station)

Parameters measured In phase and quadrature components of the secondary field in MAX mode.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1056 Number of Readings mag=1056; EM=1056

Station interval 12.5 metre Line spacing 100 metre

Profile scale 1 cm = 10^6

Contour interval 100 gammas

MAGNETIC

Instrument Geometrics G-816 Proton

Accuracy – Scale constant ± 1 gamma

Diurnal correction method Base line tie-ins

Base Station check-in interval (hours) 1 hour

Base Station location and value Base line stations at each cross line

ELECTROMAGNETIC

Instrument Crone Radem V.L.F.

Coil configuration Vertical Loop

Coil separation Variable

Accuracy ± 1/2 degree

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency NSS Anapolis, Maryland 21.4 Khz (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 514 Number of Readings 514

Station interval 25 metre Line spacing

Profile scale 1 cm = 20%

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Apex MaxMin II

Coil configuration Horizontal Loop

Coil separation 150 metres

Accuracy ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 888, 1777, 3555 Hz (specify V.L.F. station)

Parameters measured In phase and quadrature components of the secondary field in MAX mode.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

LeMay Twp. - M.1841

Manross Twp. - M.2338

Work Twp - M.1657

MacQuarrie Twp. -M.2074

H.E.P.C. LINE

LAKE

200

THE TOWNSHIP OF

CODE

DISTRICT OF KENORA

KENORA MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C

NOTES

400' Surface Rights Reservation around all lakes and rivers

PLAN NO. M.1962

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

LEGEND

FELSIC - INTERMEDIATE INTRUSIVES

086	4a	Undifferentiated
086	4b	Felsite
086	4c	Biotite granite, Biotite quartz monzonite
086	4d	Granophyre

MAFIC - INTERMEDIATE INTRUSIVES

091	3a	Trap
089	3b	Syenodiorite, Monzonite
088	3c	Diorite
091	3d	Gabbro
091	3e	Porphyritic gabbro
091	3f	Chloritized gabbro
091	3g	Pyroxenite, Ultramafics

INTERMEDIATE to FELSIC VOLCANICS

090	2a	Undifferentiated
089	2b	Lapilli tuff to Agglomerate
088	2c	Tuff
088	2d	Quartz - (Fe) Carbonate - sericite schist
088	2e	Sericite - Chlorite - (Fe) Carbonate - Quartz schist.

MAFIC to INTERMEDIATE VOLCANICS

087	1a	Undifferentiated
087	1b	Basalt
087	1c	Pillowed basalt
087	1d	Porphyritic basalt
087	1e	Andesite
086	1f	Tuff
086	1g	Lapilli tuff
088	1h	Chlorite - carbonate schist (±qtz)

e.g. $cla_{c}2e$ Strong calcium carbonatization denoted by c subscripted.

cp Chalcopyrite

py Pyrite

qtz Quartz

Qv Quartz vein

tl Tourmaline

Rock outcrop

x Rock outcrop

Geological boundary, observed

Geological boundary, inferred

Schistosity, cleavage, foliation (inclined, vertical, dip unknown)

Fault defined, assumed.

Slope

Pillows

Jointing inclined, vertical

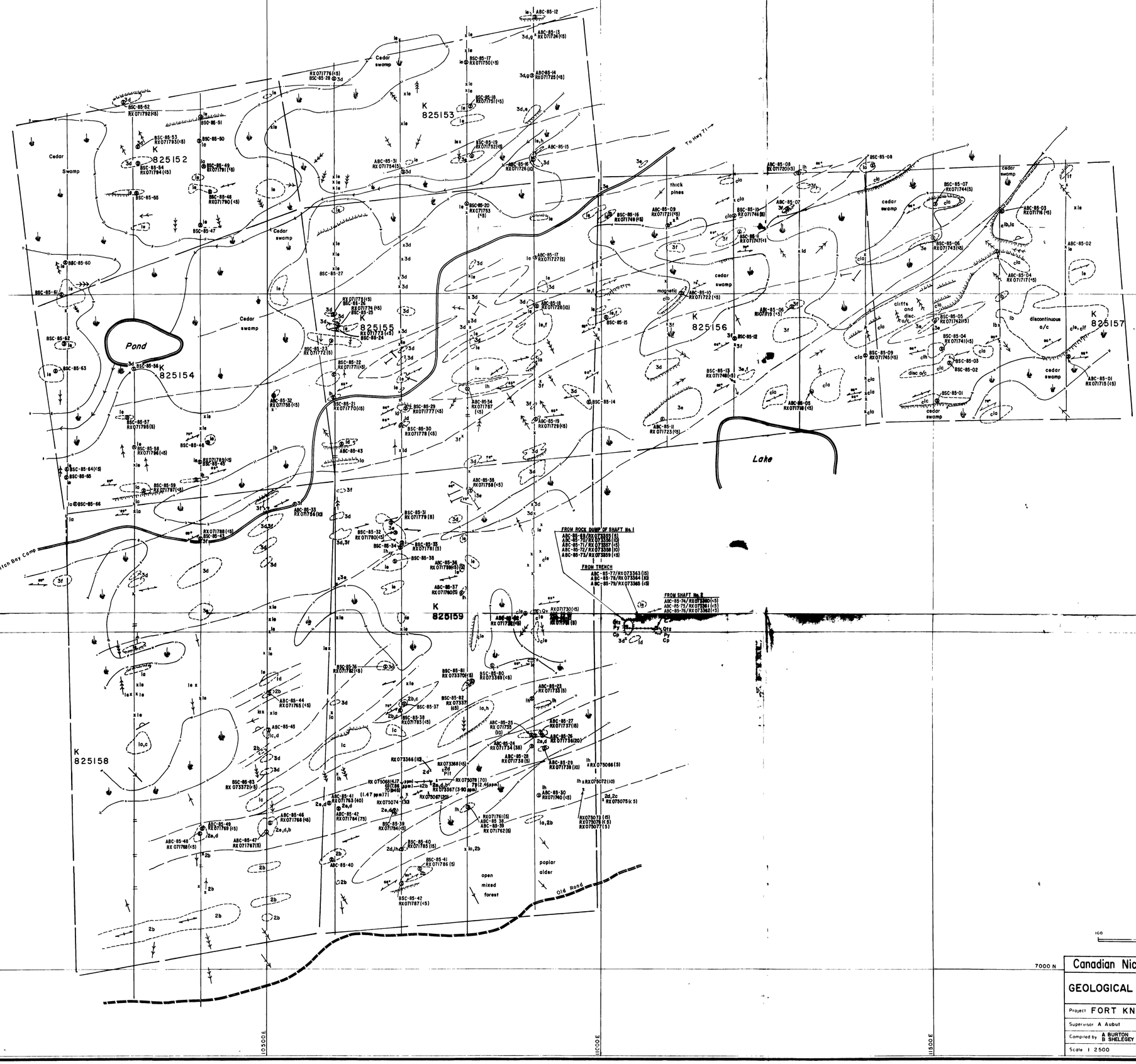
Quartz vein

Trench

Shaft

ABC-85-66 Identification letters, year - sample number

RX 071798(<5) Sample number (assay value in ppb Gold) unless otherwise noted



Canadian Nickel Company Limited — Copper Cliff, Ontario POM 1NO

GEOLOGICAL SURVEY (SOUTH GROUP)

SHEET | FIGURE

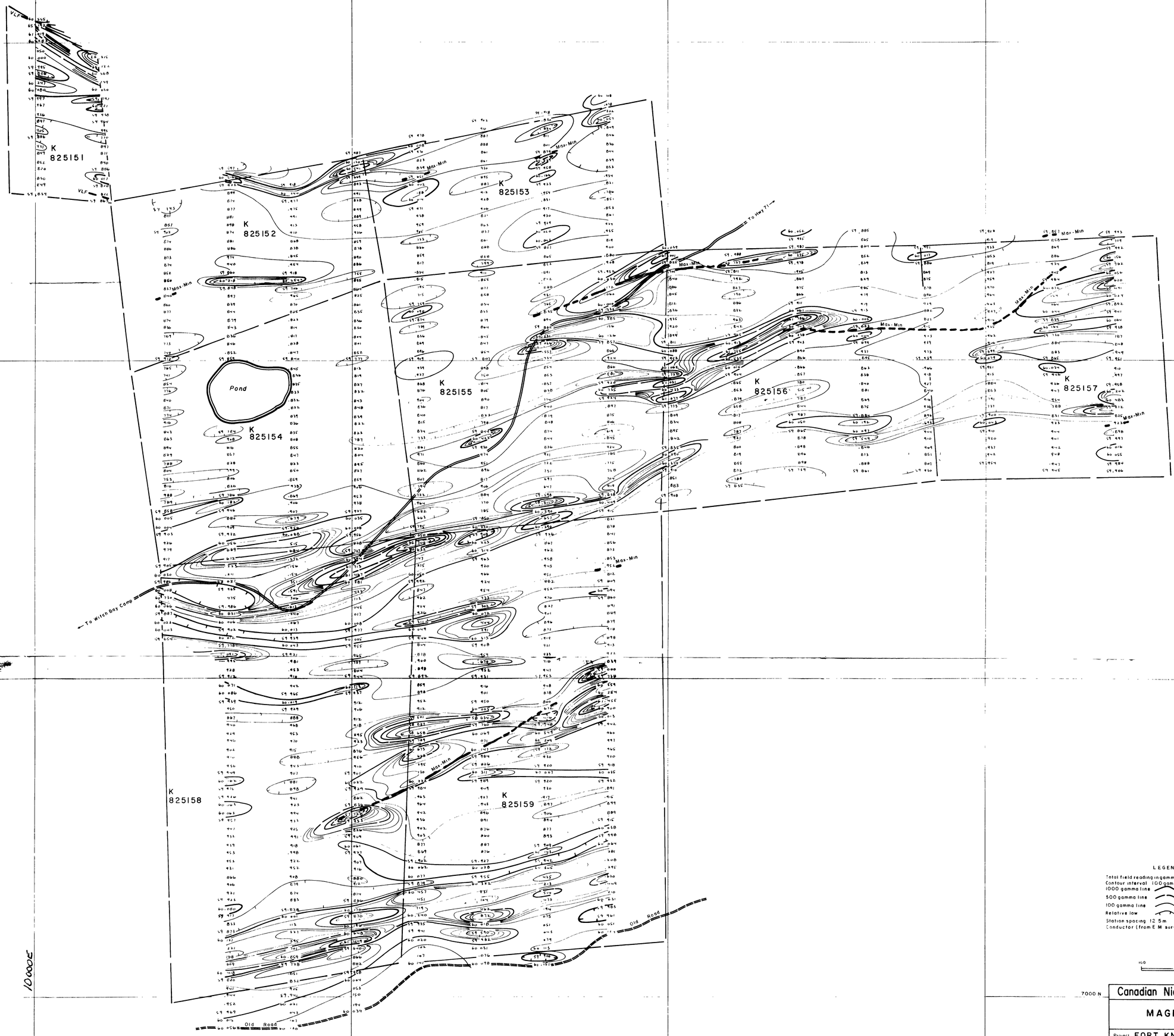
Project FORT KNOX — Area CODE TOWNSHIP (M-1962), ONT.

Supervisor A Aubut — Instrument — Survey date July, 1985

Compiled by A BURTON, B SHELEGEY — Drawn by RON JOHNSON (W.E.M.) — Date drawn Sept. 1985 — Revised

Scale 1:2500 — File — NTS 52E9

29144



LEGEND

Total field reading in gammas 59 945
Contour interval 100 gammas
1000 gamma line
500 gamma line
100 gamma line
Relative low
Station spacing 12.5m
Conductor (from E M survey)

100 0 25 50 100m

Canadian Nickel Company Limited — Copper Cliff, Ontario POM 1NO

MAGNETIC SURVEY

SHEET | FIGURE

Project FORT KNOX — Area CODE TOWNSHIP (M-1962), ONT.

Supervisor A Aubut — Instrument Geometrics Proton G816 — Survey date June, 1985

Compiled by D Low — Drawn by W E Marsaw — Date drawn July, 1985 — Revised

Scale 1 2500 — File — NTS 52E9

52E09SE0008 2.9144 CODE

220

2.9144

8500 N

8000 N
BASE LINE 090°

7500 N

7000 N

K 825151

K 825152

K 825153

K 825154

K 825155

K 825156

K 825157

K 825158

K 825159

Pond

To Hitchhay Camp

Signal from NSS - 21.4 kHz

Old Road

LEFT 30° 20° 10° 0 10° 20° 30° RIGHT
TILT ANGLE

LEGEND

Tilt angle readings in degrees right, left: EC 4623-1
Quadrature readings in per cent (not profiled): 10 9 7 4
Tilt angle profile scale: 1cm = 10°
Station spacing: 12.5m
Conductor classification — STRONG — MEDIUM - - - WEAK

100 0 25 50 100m

Canadian Nickel Company Limited

VLF ELECTROMAGNETIC SURVEY

SHEET | FIGURE

Project FORT KNOX | Area CODE TOWNSHIP (M 1962), ONT
Surveyed by A Aubut | Instrument CRONE RADEM | Survey date June, 1985
Compiled by T Lang | Drawn by W E Morsaw | Date drawn July, 1985 | Revised
Scale 1:2500 | File | NTS 52E9

100005

52E9SE0080 2.0144 CODE

230