



52F03NE0019 63.4320 NAPANEE LAKE

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SPARTON RESOURCES INC.
STRAW LAKE PROJECT
SUMMARY REPORT
1983 EXPLORATION PROGRAM



52F03NE0019 63.4320 NAPANEE LAKE

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SPARTON RESOURCES INC.

STRAW LAKE PROJECT

SECTION 1

INTRODUCTION

1983 EXPLORATION PROGRAM

This report is presented to fulfill the requirements of The Ontario Mineral Exploration Program Act, 1980 in Application for Grant or Certificate of Entitlement to Tax Credit for Designated Program OM83-3-C-113.

Application is made in the name of:

SPARTON RESOURCES INC.
520-67 RICHMOND STREET WEST
TORONTO, ONTARIO

LOCATION and ACCESS

The Straw Lake property is located in Northwest Ontario on N.T.S. 52 F/3. Straw Lake which is central to the property is approximately 65km due North of the Town of Fort Francis and 81km southwest of the Town of Dryden.

The property is accessible year round by car/truck either south from Hiway 17 at Dryden or north from Hiway 11 via Hiway 805 to Cedar Narrows Road. Cedar Narrows Road is a well maintained gravel road which transects the Straw Lake property. The northeast arm of Straw Lake, and the base camp are at km 42 of Cedar Narrows Road

PROPERTY

The Straw Lake claim group consists of 239 unpatented mining claims as follows:

K638827 - K638846 inclusive	20
K677701 - K677758 inclusive	58
K677776 - K677828 inclusive	53
K677850 - K677894 inclusive	45
K677910 - K677913 inclusive	4
K677925 - K677983 inclusive	59

All claims are recorded in the Kenora Mining Division on plans M-2469, M-2471, and M-2430.

GRID-LINE CUTTING

An exploration grid has been established on all land and water claims. Line spacing is 100m with stations established at 25m intervals. The baseline trends east-west on grid sheets 1, 2 and 3 and on the East Grid, and 070 on the West Grid and grid sheets 4, 5 and 6. Cross lines are always perpendicular to the baselines.

SUMMARY OF EXPLORATION

This report details the results of a major exploration program undertaken by Sparton Resources Inc. Surveys include complete coverage of all claims with



Ontario

Ministry of
Natural
Resources

Designated
Program

AUG 09 1983

Registration Number
OM83-3-C-113

The Ontario Mineral Exploration Program Act, 1980 and Regulations made thereunder.

STRAN LA

Applicant - Name

SPARTON RESOURCES INC.

Street Name and Number

500 - 67 RICHMOND ST. W.

City, Town, Village

TORONTO

Province

ONTARIO

M5H 1Z5

The above named applicant's proposed mineral exploration program submitted on 83/07/13 on form OMEP1, and having met the requirements subject to The Ontario Mineral Exploration Program Act, 1980, and regulations made thereunder, has been approved and herewith certified and duly registered as a Designated Program.

Period of designation is from 83/07/12 to 83/12/31
Year/Month/Day Year/Month/Day

Maximum Grant
and/or
Tax Credit \$ 92,500 25% of \$370,000

83/08/05

Year/Month/Day

QMEP Director/Administrator

Applications for Grants or Tax Credits must be made within six months of the expiry date of the period of designation.

* Please refer to this number in all correspondence

linecutting, VLF-EM and magnetometer surveys, complete coverage of all land claims with soil and organic surveys (1809 soil samples and 1610 humus samples) geological mapping and sampling on the west grid and grid sheets 1, 2 and 3, detailed prospecting and rock sampling on grid sheets 4, 5 and 6, 35.6 km of IP/Resistivity survey, seven areas of stripping and sampling, 2000 feet of diamond drilling in 5 holes, and over 1000 rock assays. The remainder of this report details all work performed.

PREVIOUS WORK

1933 - 1941 The Straw Lake Beach Mine Syndicate

Formed in 1934 to explore and develop a gold occurrence discovered by Murdock Mosher and Fred Grozelle on the southeast shore of Straw Lake in 1933. The Straw Lake Beach Mine became the second largest past-producing mine in the Kenora District.

The production history of the Straw Lake Beach Mine was:

1938 - 1941 11,568 oz gold from 33,662 tons (0.34 oz/ton)
 1,049 oz silver

Workings consisted of a shaft to 723 feet with six levels and 4,631 feet of lateral development.

1934 - 1935 Vigor Property

On the Straw Lake property there are three patented claims (K4290 - 92). These claims are approximately 2 km east of the southeast arm of Straw Lake. Records of assayed samples and channel samples dated 1934-35 are available through the Regional Geologist in Kenora.

1935 Ontario Department of Mines

In 1935 the ODM published a report entitled "Geology of the Straw-Manitou Lakes Area" followed in 1936 by "Rowan-Straw Lake Area".

1969 Canadian Nickel Company

CANICO drilled at least two holes in the area covered by the present claim group. CANICO drill hole 42727 intersected 11 feet of graphitic mafic volcanics. CANICO drill hole 32897 cut 105 feet of overburden and 26 feet of meta-dacite. No conductor was intersected.

1979 Freeport Canadian Exploration Co.

Freeport completed a Questor INPUT survey in May 1970, which covered the present Straw Lake property. Follow-up consisted of ground EM and magnetometer surveys and drilling. At least six drill holes were completed on the present property. All holes intersected graphitic slate or graphitic shear zones

SPARTON RESOURCES INC.
STRAW LAKE PROJECT
SECTION 2
GEOLOGICAL SURVEY
1983 EXPLORATION PROGRAM

Introduction

This section outlines the results of geological mapping, trenching and diamond drill programs completed on the Straw Lake claim group of Sparston Resources Inc. between May 1983 and December 1983. Other information from prospecting, geophysics and geochemistry completed during the same time period are incorporated in parts to justify the work performed.

General Geology

Geological mapping during the 1983 field season was completed on the western grid and grid sheets 1-3. These sheets correspond to L-0 to L-28W on the western grid and L-26W to L-32E on grid sheets one to three.

The general geology of the Straw Lake Area in the simplest terms is characterized as a greenstone belt lying between the Jackfish Lake-Weller Lake Pluton and the Lawrence Lake Batholith. Rock types are mainly interlayered, steeply dipping to vertical, mafic, intermediate and felsic metavolcanics, with intercalated metasediments. Distinguishing between crystal tuffs and metasediments is often difficult, especially where foliation and shearing are intense. A quartz-feldspar porphyry sill intrudes the volcanics and is identified physiographically as a ridge of resistant rock. Felsic intrusives (i.e. granites & rapikivi) occur at or near the contacts with the batholiths and near the Manitou fault. This brief overview of the Straw Lake geology will be discussed in more detail in the following section.

Mafic Volcanics

Throughout the mapped area on the Straw Lake property, mafic volcanics often occur as semi-continuous, inter fingered zones. Within zones of felsic volcanics the mafic volcanics usually appear as small pinch and swell or lenticular shaped bodies. More massive and larger conformably mafic units also occur.

Mafic volcanics on the Western Grid are an example of this later type of occurrence. From north of Thompson Bay extending eastward, as far as the South-east corner of Yoke Lake, a well defined mafic volcanic unit is identified. In many areas this massive to foliated mafic tuff and lapilli tuff is difficult to distinguish from an intermediate volcanic. Based on poor exposure, and mineral variation between outcrops. The contacts are probably transitional rather than clearly observable contacts. Mapping in such a case becomes more concerned with describing variation between outcrops based on structure, alteration and mineralogy rather than rock type. Thus, throughout this grid, variations in chloritic alteration, quartz-carbonate fracture filling,

Mafic Volcanics (continued)

geophysical signatures and other basic structural and mineralogical changes are emphasized.

Mafic volcanics on sheets #1, 2 & 3 are more easily identifiable in outcrop. They are inter fingered and semi-continuous within zones of felsic volcanics.

SHEET #3 has three main mafic volcanic horizons. South-east of Floyd Lake, a massive, tuffaceous, mafic volcanic unit occurs close to the contact of the Lawrence Lake Batholith. This mafic tuff is extremely rich in chlorite and also displays minor disseminated pyrite and sericite. Further to the east, mafic volcanics are finer grained and are flows rather than pyroclastic. Also, on sheet three and south-east of Paleo Lake a foliated tuff with lapilli size fragments occurs. Characterically, this tuff contains chloritic blebs and carbonate along cleavage planes, hematite staining and disseminated pyrite. These two mafic lithologies described are easily identified and form a continuous mappable unit.

Unlike the previously described mafic zone, a semi-continuous and inter fingered series of outcrops appear east of Rick Lake. Although not as massive and well defined, these scattered outcrops show similar traits. They tend to be tuffaceous with some lapilli size fragments, rich in chlorite and carbonate. A problem in identification of mafic volcanic rocks occurs to the S-E of Paleo Lake.

Similar to the problem identified on the west grid, distinguishing between intermediate and mafic volcanics is very subjective. Variations in amount of chlorite, quartz and sericite even within the same outcrop make this a difficult unit to map. Contacts, usually are not identifiable because they are transitional in nature. The contacts are subjectively plotted, based on mapping and geophysical results.

SHEET #2 reveals mafic volcanics that occur as narrow discontinuous zones within the felsic volcanics (east and west of Centre Lake). Characteristically, these mafic tuffs and flows are siliceous with hematite staining, plus, fracture fill quartz stringers and calcite. The same lithology is also observed north of Centre Lake. South of Centre Lake the mafic volcanics often contain lapilli size fragments and are weakly foliated. Moreover, these rocks are rich in chlorite and carbonate.

SHEET #1 exhibits three main zones of mafic volcanics. North of the north east arm of Straw Lake discontinuous zone of mafic volcanics, these rocks like those described at other locations (on sheets #2 & 3) are within a zone of siliceous and chloritic felsic volcanics. A well defined ridge of mafic volcanics was mapped south of the south-east arm of Straw Lake. These rocks are thought to be a continuation of the mafic volcanics described on sheet #3, south east of Paleo Lake. Massive flows, and lapilli tuffs characterize the rock types. These rocks are foliated and carbonatized with chlorite rich alteration zones.

Intermediate Volcanics

Sheet #3 outlines an intermediate volcanic unit south-east of Paleo Lake. Bands of mafic flows and tuffs are interlayered with this unit. Although, not always easily identified as separate units, several major zones are outlined. This intermediate tuff, lapilli tuff is usually massive with zones of quartz-carbonate stringers. Hematite staining and chlorite alteration prevail throughout this unit with isolated showings of minor disseminated pyrite. This unit extends across sheet #2 and terminates north-west of Vigor Lake.

South of Floyd Lake and extending to the north-east, intermediate volcanics alternate with mafic tuffs and flows. These two units appear very similar in description, and in fact may be the same unit. This weakly foliated intermediate tuff has quartz-stringers, disseminated pyrite and, sericite and chlorite alteration.

North of Centre Lake (sheet #2) intermediate volcanics are found in semi-continuous bands throughout the felsic volcanics. Volcanic ash tuffs and crystal tuffs within this unit are foliated, siliceous, and hematite stained.

On the northern part of (Sheet #1) including the old mine area, siliceous intermediate crystal tuffs/tuffs are conformable with the felsic volcanics to the south. Lapilli size fragments were observed in some outcrops. Chlorite and sericite alteration, hematite staining, and minor pyrite

South of the south-east arm of Straw Lake (Sheet #1) a siliceous foliated, intermediate tuff is identified. This tuff contains quartz eyes, quartz stringers and veinlets. Sericite and carbonate are present. This unit again contains more mafic segments that are transitional to intermediate volcanics.

Foliated, siliceous intermediate tuffs and lapilli tuffs, cover most of the west grid. These tuffs are characterized by chlorite, sericite and carbonate alteration, and zones of minor pyrite.

Felsic Volcanics

The central part of the property, consists mostly of felsic volcanics. On grid sheet #1 felsic volcanics comprise the most abundant rock type with semi-continuous, interlayered intermediate volcanics. Weathered felsic volcanics generally appear beige to brownish beige, while mafic volcanics appear green. This central belt of felsic volcanics is characterized by very flat outcrops that are very difficult to sample.

Felsic Volcanics (continued)

Within this felsic belt there are zones of strong deformation (sericite-schist) where all primary structure is lost. These sericite schists are highly altered and sheared and are located in the narrowest section of the Straw Lake volcanic belt. (south of the north-east shore of Straw Lake). It is within this narrow zone that the maximum deformation has occurred during tectonic events.

This central felsic zone is quite consistent in terms of rock type varying from a tuff to crystal tuff. These highly foliated siliceous felsic volcanics show a high degree of sericite alteration with lesser chlorite alteration. The chlorite occurs as "blebs". Pyrite mineralization varies throughout this unit area and in some areas is quite substantial.

A zone south of the north-east arm of Straw Lake, outcropping on Cedar Narros Road contains "bomb" size fragments. This siliceous felsic agglomerate (or breccia) is foliated and contains a good deal of sericite with some chlorite. However, this zone cannot be traced laterally due to deep till east and west of the outcrop.

Meta-Sediments

Meta-sediment underlying the Straw Lake property are usually thin units with limited strike length and generally found within felsic to intermediate volcanics. Sedimentary rocks within this environment tend to have a magnetic signature (probably magnetite). Metasediments south and west of Centre Lake are thought to be of volcanic origin. Metamorphism has resulted in an abundance of sericite alteration usually observed as thin partings along shear planes. Inter-bedded within this unit lie thin arkosic beds. No grading is evident, however, current bedding was seen in one location. These sedimentary units represent periods of quiescence in volcanic activity.

North and north-east of Centre Lake there are thin beds of volcanic meta sediments within felsic and intermediate volcanics (pit #2, 4, 5 and 6) contain. These siliceous volcanic metasediments contain cherty horizons. Cross bedding is identified within some beds (chert), interbedded sericite partings are common.

The most prevalent sedimentary unit was mapped south of Paleo Lake. Within this lithological unit, foliated and silica rich siltstone/argillite beds are identified that are intercalated with cherty horizons. Sericite and chlorite alteration is observed. This unit has a weak magnetic attraction caused by very fine disseminated magnetite. This unit has a good magnetic signature. Furthermore, hematite staining and carbonates are also present throughout this sedimentary unit.

Intrusive Rocks

Feldspar Porphyry

A Feldspar porphyritic unit lies between Centre Lake and Rick Lake, this lithology appears to extend across Rick Lake. Massive to weakly foliated, this rock is either a thick flow or intrusive sill that displays the outcrops, however, a general trend is identified. The trend reveals a lack of porphoritic texture adjacent to the contacts, (north and south) with better porphoritic textures toward the centre of the unit to a maximum size of 1/2 cm. Stringers and veinlets of quartz are numerous with a great deal of chlorite alteration. These features are more evident near the margin of the unit.

Granitic Rocks

Granitic rock types are rare on the property. Only one true granite is identified. This felsic intrusive displays a rapikivi structure with feldspar laths up to 1.5 cm. in size. Located between L-16W and L-17W on Sheet #1 the rapikivi intrudes a mafic volcanic. It is thought that this intrusive may be related to the Manitou Stretch fault.

The only other location of granitic rocks in the mapped area is located at the southern boundary (contact) of the Lawrence Lake Batholith. This contact has a great deal of pyrite associated with it and tends to be concentrated in the mafic-intermediate volcanics to the south. The rock type is predominantly massive diorite in this area.

Structural Geology

The major structural feature identified on the Straw Lake Property is the Manitou Stretch - Pipestone Lake Fault. This regional strike-slip fault trends East-West from the Manitou Stretch, through between Vigor Lake and Rick Lake and into the south-east arm of Straw Lake across to Thompson Bay. This fault usually results in a high VLF-EM response, and a low magnetic response. The fault zone is generally parallel to subparallel to the regional stratigraphy. The fault zone was intersected in at least 3 diamond drill holes completed by Freeport Canadian Exploration Co. Each hole intersected a graphitic shear zone in mafic to intermediate volcanic.

The feldspar porphyry unit is post shearing and may have intruded into paleo-shear zones.

Identifiable by basic trends in strike, the supracrustal rocks north of the Manitou fault are wrapped around the Lawrence Lake Batholith. The strike turns noticeably to the north-west near Yoke Lake and similarly turn to the north-east near Missus Lake.

Shearing occurs and is intensified adjacent to the fault zone (e.g. north of Manitou stretch) and in a zone where the supracrustal belt narrows south of the north-east arm of Straw Lake.

Structural Geology (continued)

Foliation is parallel to bedding and is generally vertical to steeply North-South dipping. This dip reversal is due to a general warping of the stratigraphy and is not related to tight isoclinal folding. It is postulated that foliation is a result of regional stresses derived from the Jackfish Lake-Weller Lake complex to the south and the Lawrence Lake Batholith to the north and to the Manitou Strech-Pipestone Lake Fault. Extensive shearing grading to a schist and sericite-schist is identified in the narrowest section of the belt, south of the north-east arm of Straw Lake (L-18W to L-5E), however, highly intensive shear zones do exist. Trenches #2, 4 & 5 expose narrow zones of highly sheared meta-sediments.

Contacts between the Lawrence Lake Batholith and the supracrustals were not seen. No hornfelsing is evident in the supracrustals towards the granitic contact.

Trenching

A trenching program was carried out on the Straw Lake property in the fall of 1983. Eight trenches (pits #1 to 8) were stripped with the aid of a Fiat-Allis 120 and two Cobra Drills provided holes for blasting within the stripped area. Two trenches (Pit #1 and #7) next to the road, were drilled with an airtrack drill.

Pit #1 (Table #1) located on L-7W extends from, 0 + 30 N to 0 + 35 S. Assays of samples taken at one meter intervals failed to confirm a high soil geochemical anomaly (820 ppb) identified earlier that season. Geology within the trench is separated into two main units. A massive, mafic volcanic exhibiting chloritic blebs and stringers and carbonate stringers, predominate the southern portion of the trench to 0 + 43 S to 0 + 85 S. The northern section of the trench (0 + 43S to 0 + 30N) is identified as a siliceous and well foliated felsic tuff to crystal tuff with sericite partings and carbonate stringers.

Pyrite mineralization within both lithologies is disseminated and fine grained. However, pyrite mineralization has a tendency to associate with chlorite stringers in many sections. Quartz-carbonate stringers prevail with a tendency to cross cut strike. Visual observation of the stringers and veinlets reveals a bullish quartz that is milky white and free of sulphides quartz.

Pit #2 located on L-6W (Table #2) extends from 5 + 08S to 5 + 37S. As with pits #2, #4, #5 (Tables #3, #4, #5), trenching occurred as a result of a high soil geochemical anomaly. This zone has a shear zone within mafic and intermediate volcanics and intercalated sediments. Assays from previous mapping and prospecting also indicated the presence of an auriferous zone. Assays from all Pits (i.e. 2,3,4,5) contain trace amounts of gold except for Pit #2 (see Table #2).

These four pits form a composite cross-section of approximately 225 meters across strike. Geology from south to north changes from a predominantly volcanic meta-sediment (chert), to an intermediate mafic volcanic, then to an intermediate metasediment and finally a mafic-intermediate volcanic. The sedimentary units are intercalated and inconsistent along strike.

The cherty volcanic sediment is well bedded and contains quartz-carbonate stringers (Pit #2). Unlike the volcanic sediment, the intermediate mafic volcanic to the north is poorly foliated with sericite alteration and hematite staining (Pit #3 & #4). There are many quartz-carbonate stringers and a better developed foliation as one traverses north within the mafic unit. Volcanic sediments also exist as small pods within the mafic volcanic (4 + 25S Pit #3).

Further across strike in Pit #5, and intermediate metasediment is identified. This siliceous sediment has well developed bedding, sericite partings and hematite staining. A strong foliation continues into a siliceous mafic-intermediate volcanic, which has sericite alteration and hematite staining and minor carbonate.

Pit #6 (See table #6 & 6A) is located on L-3E and L-3 + 10E and extends from 3 + 28S to 3 + 54S. There are two distinct lithologies within the trench area. The most southernly unit (3 + 47S to 3 + 47 S), consists of an intermediate volcanic that is characterized by a strong foliation, quartz eyes, sericite and chlorite alteration. The second unit is a highly siliceous and foliated metasedimentary (cherty) band that exhibits bedding, sericite developed along bedding, quartz eyes, pyrite and chloritic. This unit was prospected earlier in the season and returned gold assays of 0.09 and 0.01 oz/ton gold. No exposure of the southern contact lead to stripping across strike from the sediments to the volcanics. Extensive pyrite mineralization occurs near the contact and is mainly limited to the intermediate volcanics. However, there is minor fine grained disseminated pyrite mineralization throughout the sediment.

Pit #7 (table #7) is located on L-5W at 0 + 20N to 0 + 37N. This area was stripped and trenched based on an extremely high soil geochemical anomaly (820 ppb). Rock types include an intermediate tuff with a thin mafic unit between 0 + 32N to 0 + 34N. The intermediate tuff has a banding defined by chlorite with quartz stringers and minor disseminated pyrite. The mafic unit is equally foliated and contains the same relative amount of pyrite.

Pit #8 is a "Y" shaped trench that lies between L-16W and L-17W between 9 + 00S and 10 + 00S. This trench was sampled to test a felsic intrusive rapikivi which intruded a mafic volcanic. The high degree of pyrite mineralization, coupled with gold assays of 0.01, 0.005, 0.005, 0.005 oz./ton suggested more work was needed for a better assessment. Furthermore, a diamond drill hole just north of the trench drilled by Freeport minerals reported good mineralization, but failed to assay for gold.

The trenching program began in late autumn on the Straw Lake Property. Because of weather restrictions trenching was limited to the most easily accessible targets. Equally interesting zones further east have not yet been cleared.

Drilling

A drill program to test several geophysical targets within a favourable geological environment was completed late in December 1983. Five diamond drill holes were drilled for a total of 1,593 feet. The diamond drill records, drill sections, fire assays and atomic absorption results, are appended to this report. The drilling did return gold values up to 0.30 oz/ton over a 5 foot core length. Compatibility between fire assays and atomic absorption results, are for the most part quite good. However, some results (e.g. DDH #2, 197-205 ft.) do show discrepancies and as such require further investigation.

Conclusions

1. Follow-up trenching failed to confirm high values obtained from soiled and organic geochemistry.
2. Drilling did reveal some gold values, however, drilling was also shallow and limited. Many conductors still need further investigation.

Recommendations

1. Geological mapping and further prospecting on sheets #4, 5 and 6.
2. A litho-geochemistry program for all rock types on the Straw Lake Property.
3. HLEM survey over conductors on grid sheet 3 to verify VLF-EM anomalies.
4. Basal till sampling over I.P. and V.L.F. anomalies that were not drilled.
5. Continue I.P. survey from L-15W to L-26N north of Baseline.
6. Basal Till sampling/or stripping in the area east of the Cedar Narrows Road, on strike from the Straw Lake Beach Mines.
7. Detailed prospecting and stripping on IP anomalies on grid sheet 3.

Pit #1 at Line 7 West (0 + 85S 0 + 30N)

(TABLE #1)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
0 + 85 South	7W - 0 +85 -S	Trace	Mafic volcanic (foliated + hematite)
0 + 84 "	84	Trace	"
0 + 83 "	83	Trace	"
0 + 82 "	82	Trace	"
0 + 81 "	81	Trace	"
0 + 80 "	80	Trace	Mafic volcanic (foliated-hematite & magnetic zone)
0 + 79 "	79	Trace	"
0 + 78 "	78	Trace	"
0 + 77 "	77	Trace	"
0 + 76 "	76	Trace	"
0 + 75 "	75	Trace	Mafic volcanic (1% pyrite/foliated)
0 + 74 "	74	Trace	"
0 + 73 "	73	Trace	"
0 + 72 "	72	Trace	Mafic volcanic (slight foliation/chlorite)
0 + 71 "	71	Trace	"
0 + 70 "	70	Trace	"
0 + 69 "	69	Trace	"
0 + 68 "	68	Trace	"
0 + 67 "	67	Trace	"
0 + 66 "	66	Trace	"
0 + 65 "	65	Trace	"
0 + 64 "	64	Trace	Mafic volcanic (slight foliation/chlorite)
0 + 63 "	63	Trace	"
0 + 62 "	62	Trace	"
0 + 61 "	61	Trace	Interm-Mafic Volcanic Tuff (foliated & hematite staining)
0 + 60 "	60	Trace	"
0 + 59 "	59	Trace	Mafic Volcanic (foliated/hematite qtz carbonate stringers)
0 + 58 "	58	Trace	"
0 + 57 "	57	Trace	"
0 + 56 "	56	Trace	"
0 + 55 "	55	Trace	"
0 + 54 "	54	Trace	Mafic Volcanic (py stringers/hematite)
0 + 53 "	53	Trace	"
0 + 52 "	52	Trace	"
0 + 51 "	51	Trace	"
0 + 50 "	#23	Trace	Mafic Volcanic (sheared/hematite staining)
0 + 49 "	22	Trace	"
0 + 48 "	21	Trace	Mafic Volcanic (x-cutting qtz-chlorite veinlets)
0 + 47 "	20	Trace	Massive Mafic Volcanic (f.g. chlorite/dissem. pyrite)
0 + 46 "	19	Trace	"
0 + 45 "	18	Trace	Well foliated tuff (qtz-carbonate/pyrite)
0 + 44 "	17	Trace	Intercalated tuff (py-carbonate-qtz)
0 + 43 "	16	Trace	" / qtz stringers/sericite
0 + 42 "	15	Trace	" minor py).
0 + 41 "	14	Trace	"
0 + 40 "	13	Trace	"
0 + 39 "	12	Trace	"
0 + 38 "	11	Trace	"
0 + 37 "	10	Trace	Felsic tuff (qtz.carbonate stringers/pyrite).
0 + 36 "	09	Trace	Felsic xstal tuff (siliceous/sericite/pyrite)
0 + 35 "	08	Trace	"

(TABLE #1 continued)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
0 + 34 South	#07	Trace	Felsic xstal tuff (siliceous/sericite/pyrite)
0 + 33 "	06	Trace	" " "
0 + 32 "	05	"	" " "
0 + 31 "	04	"	" " (foliated/pyrite)
0 + 30 "	03	"	" " "
0 + 29 "	02	"	" " "
0 + 28 "	01	"	" " "
0 + 27 "	30	"	Foliated felsic xstal tuff (pyrite)
0 + 26 "	29	"	" " "
0 + 25 "	28	"	" " "
0 + 24 "	27	"	" " "
0 + 23 "	26	"	Foliated felsic xstal tuff (pyrite)
0 + 22 "	25	"	" " "
0 + 21 "	24	"	" " "
0 + 20 "	5075	"	Felsic tuff (foliated/chlorite/pyrite)
0 + 19 "	5074	"	" " "
0 + 18 "	5073	"	" " "
0 + 17 "	5072	"	" " /sericite)
0 + 16 "	5071	"	" " /qtz vein)
0 + 15 "	5070	"	Felsic tuff (sericite banding)
0 + 14 "	5069	"	Felsic tuff (sericite + chlorite)
0 + 13 "	5068	"	" " "
0 + 12 "	} Not Sampled	"	" " "
0 + 11 "		"	" " "
0 + 10 "		"	" " "
0 + 09 "		"	" " "
0 + 08 "		"	" " "
0 + 07 "		"	" " "
0 + 06 "		"	" " "
0 + 05 "		"	" " "
0 + 04 "		"	" " "
0 + 03 "		5067	"	Felsic xstal tuff (chlorite/pyrite)
0 + 02 "	5066	"	" " "
0 + 01 "	5065	"	" " "
0 + 00 "	5064	"	" " (sericite/pyrite)
0 + 01 South	5063	"	" " "
0 + 02 "	5062	"	Xstal tuff (chlorite/pyrite).
0 + 03 "	5061	"	" " "
0 + 04 "	5060	"	" " "
0 + 05 "	5059	"	" " "
0 + 06 "	5058	"	Felsic xstal tuff (sericite/pyrite).
0 + 07 "	5057	"	" " "
0 + 08 "	5056	"	Felsic xstal tuff (sericite/minor py.)
0 + 09 "	5055	"	" " "
0 + 10 "	5054	"	" " "
0 + 11 "	5053	"	" " "
0 + 12 "	5052	"	" " "
0 + 13 "	5050	"	" " "
0 + 14 "	5149	"	" " "
0 + 15 "	5148	"	" " "
0 + 16 "	5147	"	" " "
0 + 17 "	5146	"	" " "
0 + 18 "	5145	"	" " "

(TABLE # 1 Continued)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
0 + 19 North	5137	Trace	f.g. xstal tuff (sulphides)
0 + 20 "	5136	Trace	" " /chlorite/sericite/pyrite).
0 + 21 "	5135	Trace	" " "
0 + 22 "	5134	"	x-stal tuff (sericite partings/chlorite/pyrite).
0 + 23 "	5133	"	" " "
0 + 24 "	5132	"	" " "
0 + 25 "	5131	"	" " "
0 + 26 "	5130	"	Sericite x-stal tuff (thin stringers pyrite).
0 + 27 "	5129	"	" " "
0 + 28 "	5128	"	" " "
0 + 29 "	5127	"	" " "
0 + 30 "	5126	"	" " "

Pit #2 at Line 6 West

(Table #2)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
5 + 08 South	10435	Trace	Felsic Volcanic (foliated sericite
5 + 09 "	10436	Trace	" carbonate)
5 + 10 "	10437	"	" "
5 + 11 "	10438	"	" "
5 + 12 "	10440	"	" qtz. vein)
5 + 13 "	10441	"	" "
5 + 17 "	10442	"	Mafic Volcanic (carbonate + py.
5 + 18 "	10443	"	" / foliated / hematite)
5 + 22 "	10444	"	" "
5 + 23 "	10445	"	Volcanic Sediments (chert)
5 + 24 "	10446	"	" "
5 + 25 "	10447	"	" (bedding chart)
5 + 26 "	10448	"	" "
5 + 27 "	10449	"	" "
5 + 28 "	10450	0.01	" "
5 + 29 "	10451	Trace	" "
5 + 30 "	10452	Trace	" "
5 + 31 "	10453	Trace	" "
5 + 32 "	10454	"	" "
5 + 33 "	10455	"	Massive beige carbonate (qtz stringers)
5 + 34 "	10456	"	" "
5 + 35 "	10457	"	" "
5 + 36 "	10458	"	" "
5 + 37 "	10459	"	" "

Pit #3 at Line 5 West

(TABLE #3)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
4 + 17 South	10409	Trace	Felsic volcanic (sericite - qtz)
4 + 18 "	10410	Trace	Intermediate volcanic (carbonate veinlets)
4 + 19 "	10411	Trace	Intermediate mafic volcanic (massive)
4 + 20 "	10412	Trace	Intermediate felsic volcanic (qtz. carbonate)
4 + 21 "	10413	Trace	" " (hematite)
4 + 22 "	10414	Trace	" " (qtz.carb. veins)
4 + 23 "	10415	Trace	" "
4 + 24 "	10416	Trace	Intermediate mafic (qtz. carbonate bands)
4 + 25 "	10419	Trace	Volcanic sediment (bedding)
4 + 26 "	10420	Trace	Intermediate volcanic (foliated/sericite)
4 + 27 "	10421	Trace	" "
4 + 28 "	10422	Trace	" "
4 + 29 "	10423	Trace	" "
4 + 30 "	10424	Trace	" "
4 + 31 "	10425	Trace	" " (hematite)
4 + 32 "	10426	Trace	" "
4 + 33 "	10427	Trace	Intermediate mafic volcanics
4 + 34 "	10428	Trace	" " (foliated)
4 + 35 "	10429	Trace	" "
4 + 36 "	10430	Trace	" "
4 + 37 "	10431	Trace	Intermediate volcanic (poor'foliation)
4 + 38 "	10432	Trace	" "
4 + 39 "	10433	Trace	Intermediate mafic volcanic
4 + 40 "	10434	Trace	" " (carbonate)
4 + 24.5 "	10417	Trace	4" qtz vein/carbonate
4 + 23.5 "	10418	Trace	8" qtz vein/pyrite

Pit #4 at Line 4 West

(TABLE #4)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
4 + 06 South	10401	Trace	Intermediate volcanic (foliated/sericite)
4 + 07 "	10402	Trace	" " "
4 + 08 "	10403	Trace	" " "
4 + 09 "	10404	Trace	" " "
4 + 10 "	10405	Trace	Intermediate volcanic (hematite weathering)
4 + 11 "	10406	Trace	" " / carbonate)
4 + 12 "	10407	Trace	Felsic volcanic (sericite/qtz .)
4 + 13 "	10408	Trace	" " "

Pit #5 at Line 3 West
(Table #5)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
3 + 55 South	L3W-3+55-S	Trace	Mafic volcanic
3 + 51 "	51	Trace	Intermediate mafic volcanic
3 + 50 "	50	Trace	with hematite staining
3 + 49 "	49	Trace	"
3 + 48 "	48	Trace	"
3 + 47 "	47	Trace	"
3 + 46 "	46	Trace	"
3 + 45 "	45	Trace	Intermediate volcanic/siliceous
3 + 44 "	44	Trace	"/sericite
3 + 43 "	43	Trace	"/foliated/sericite
3 + 42 "	42	Trace	"
3 + 41 "	41	Trace	Intermediate metased (sericite + bedding)
3 + 40 "	40	Trace	"
3 + 39 "	39	Trace	"
3 + 38 "	38	Trace	"
3 + 37 "	37	Trace	"
3 + 36 "	36	Trace	"

Pit #6 at Line 3 East

(TABLE #6A)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
3 + 54 South	L3E-3+54S	Trace	Intermediate volcanic (siliceous/foliated/py.)
53	53	"	" " (qtz eyes)
52	52	"	" " (qtz eyes/sericite)
51	51	"	" " (foliation/sericite)
50	50	"	" " (sericite/qtz eyes)
49	49	"	" " (chlorite/qtz eyes)
48	48	"	" " "
47	47	"	Intermediate volcanic (chlorite/sericite)
46	46	"	Siliceous sediments (Bedded)
45	45	"	Intercalated (interm volcanic & seds)
44	44	"	" " + qtz veins
43	43	"	Siliceous seds (90% qtz)
42	42	"	Sediments (hematite/chlorite/py)
41	41	"	" " "
40	40	"	Siliceous seds (sericite/pyrite)
39	39	"	Intermediate volcanic (chlorite/hymatite)

Pit # 7 Line 5 West

(Table #7)

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
0 + 20 North	LSW-0 + 20 N	Trace	Intermediate tuff (f.g. py./banded/chlorite)
21	21	Trace	" " "
22	22	Trace	" " "
23	23	"	" " "
24	24	"	f.g. intermediate tuff (pyrite/qtz. stringers)
25	25	"	Intermediate tuff (chlorite/qtz veins/pyrite)
26	26	"	" " "
27	27	"	" " "
28	28	"	" " "
29	29	"	" " "
30	30	"	" " "
31	31	"	" " "
32	32	"	Mafic foliated volcanic (pyrite)
33	33	"	" " "
34	34	"	" " "
35	35	"	Intermediate tuff (sericite/pyrite)
36	36	"	" " "
37	37	"	" " (pyrite stringers)

Pit #8 between 16 & 17 West / 9 & 10 S

Grid Location	Sample #	Assay (oz/ton)	Rock Type & Alterations
East pit # 1	10469	Trace	Mafic volcanic
2	10470	..	..
3	10471	..	Mafic intermediate volcanic (2% pyrite)
4	10472	..	..
5	10473	..	..
6	10474	..	..
West pit # 1	10475	..	Rapikiwi (1% pyrite)
2	10476	..	Rapikiwi - Mafic contact
3	10477	..	..
4	10478	..	Mafic volcanic (pyrite)
5	10479	..	Rapikiwi - Mafic volcanic
South pit # 1	10480	..	f.g. siliceous intermediate volcanic

STRAW LAKE
SAMPLE DIARY
1983

TAG #	AU oz/t	AU ppb	LOCATION	DESCRIPTION
1	TR	-	TR-1 700W 0+28S	FELSIC TUFF, CHL, SER, FOLIATED
2	TR	-	29S	AS IN 28S
3	TR	-	30S	AS IN 28S
4	TR	-	31S	FELSIC TUFF, C.G. PY, INCREASE IN SER.
5	TR	-	32S	XTAL TUFF, VERY SILICEOUS & SERICITIC
6	TR	-	33S	AS IN 32S
7	TR	-	34S	AS IN 33S
8	TR	-	35S	AS IN 33S
9	TR	-	36S	XTAL TUFF, SILICEOUS, SER, CHL.
10	TR	-	37S	XTAL TUFF, Q-C STRINGERS, PY, HEM STAIN.
11	TR	-	38S	INTERB. FEL-INT. TUFF, QTZ-PY STRING. <.25"
12	TR	-	39S	AS IN 38S
13	TR	-	40S	AS IN 38S
14	TR	-	41S	AS IN 38S, LESS PY, Q-C STRINGS <.25", HEM.
15	TR	-	42S	QTZ. VEIN, 30cm, HEM, CARB, MINOR PY.
16	TR	-	43S	QTZ STRINGER ZONE, HEM, SER, CHL, PY, .5-.75"
17	TR	-	44S	INTERM. VOLC. QTZ-CARB, MINOR PY
18	TR	-	45S	TUFF, QTZ-CARB, PY, HEM STAIN.
19	TR	-	46S	MAFIC VOLC. F.G. CHL, SiO ₂ , F.G. PY
20	TR	-	47S	AS IN 46S, X-CUTTING QTZ VEINS
21	TR	-	48S	MAFIC VOLC. X-CUTTING QTZ-CHL-PY VEINS
22	TR	-	49S	MAFIC VOLC., SHEARED & FOLIATED, HEM.
23	TR	-	50S	AS IN 49S
	TR	-	51S	
	TR	-	52S	
	TR	-	53S	
	TR	-	54S	
	TR	-	55S	
	TR	-	56S	
	TR	-	57S	
	TR	-	58S	
	TR	-	59S	
	TR	-	60S	
	TR	-	61S	
	TR	-	62S	
	TR	-	63S	
	TR	-	64S	
	TR	-	65S	
	TR	-	66S	
	TR	-	67S	
	TR	-	68S	
	TR	-	69S	

TR	-	70S	
TR	-	71S	
TR	-	72S	
TR	-	73S	
TR	-	74S	
TR	-	75S	
TR	-	76S	
TR	-	77S	
TR	-	78S	
TR	-	79S	
TR	-	80S	
TR	-	81S	
TR	-	82S	
TR	-	83S	
TR	-	84S	
TR	-	85S	
24	TR	21S	FELSIC XTAL TUFF, SILICEOUS, 2%PY
25	TR	22S	AS IN 22 S, LESS PYRITE
26	TR	23S	AS IN 21S, MORE CHL. AND PY
27	TR	24S	AS IN 23S
28	TR	25S	AS IN 24S, QTZ & CHL. STRINGERS
29	TR	26S	AS IN 25S, LESS CHLORITIC STRINGERS
30	TR	27S	AS IN 26S
38	TR	TR-6 310E 3+28S	INTERB. CHERT, SER, F.G. PYRITE, HEM. STAIN
39	TR	29S	AS SAMPLE 38
40	TR	30S	AS 0+31S
41	TR	31S	SILICEOUS METASED, CHERT,
42	TR	32S	MAFIC METASED, CHL. STRINGERS, QTZ EYES
43	TR	33S	SER BNDS WITH INTERM & MAFIC BNDS, CHL
44	TR	34S	SILICEOUS METASEDS, VERY SER & FOLIATED
45	TR	35S	SILICEOUS METASEDS, + INTERM BEDS
46	TR	36S	SILICEOUS METASEDS, CHERT, CHL, HEM
47	TR	37S	MAFIC SEDS, QTZ. EYES, 1% PYRITE
48	TR	38S	METASEDS, INTER-MAFIC, SER, QTZ EYES, PY
49	TR	39S	F.G. METASED, CHERT, SER, CHL, HEM.
50	TR	40S	CHERTY SED, BEDDING & XBED, MAFIC SEDS, PY
1A	TR	39S	INTERM. VOLC. CHL. STRINGERS, HEMATITE
2A	TR	40S	SILICEOUS METASEDS, CHERTY, SER, PY
3A	TR	41S	MAFIC METASED, HEM, CHL, F.G. PYRITE
4A	TR	42S	AS IN 41S
5A	TR	43S	SILICEOUS METASED, 90%QTZ, CHL STRINGS, HEM
6A	TR	44S	INTERM. METASEDS INTERB MAF. PY, Q.V.,
7A	TR	45S	INTERMEDIATE VOLC. , QTZ. EYES
8A	TR	46S	METASEDS, SILICEOUS, BEDDED HEM. STAIN
9A	TR	47S	INTERM. VOLC. CHLORITE, SERICITE
10A	TR	48S	AS IN 49S
11A	TR	49S	INTERM. VOLC. , CHL, QTZ. EYES
12A	TR	50S	INTERM. VOLC. SER, QTZ. EYES,
13A	TR	51S	INTERM. VOLC, QTZ. EYES, MINOR SER.

14A	TR	-	52S	SILICEOUS VOLC. QTZ. EYES, SER, CHL.
15A	TR	-	53S	SILICEOUS VOLC. AS 54S,
16A	TR	-	54S	SILICEOUS VOLC., BNDED, CHL, F.G. PY
17A	TR	-	TR-5 300W 3+36S	INTERM. SED, SER, HEMATITE STAIN
18A	TR	-	37S	AS IN 36S
19A	TR	-	38S	AS IN 36S
20A	TR	-	39S	AS IN 36S
21A	TR	-	40S	AS IN 36S
22A	TR	-	41S	AS IN 40S, LESS WEATHERED
23A	TR	-	42S	SILICEOUS VOLC. SER ON FOL. PLANES
24A	TR	-	43S	SILICEOUS VOLC, VERY SERICITIC
25A	TR	-	44S	AS IN 43S
26A	TR	-	45S	AS IN 43S
27A	TR	-	46S	INTERM-MAFIC VOLC., HEM STAINED
28A	TR	-	47S	AS IN 46S
29A	TR	-	48S	AS IN 46S
30A	TR	-	49S	AS IN 46S
31A	0.04	-	50S	AS IN 46S
32A	TR	-	51S	AS IN 46S
33A	TR	-	3+05W 3+55S	MAFIC VOLCANIC
189	<.005		TR-1	
190	<.005		TR-1	
191	<.005		TR-1	
192	<.005		TR-1	
193	-	25	TR-6 300E	CHERTY VOLC. OR SED
194	-	<5	TR-6 300E	QTZ-CARB-SER ROCK
195	-	10	TR-6 300E	V.F.GPY IN FEL. SED/TUFF
196	-	<5	TR-6 300E	CHERTY TUF/SED. SER, PY/CPY
197	-	<5	TR-6 300E	SIL/SER TUF/SED, V.F.G. PY
997	-	<5	TR-6 300E	V.F.G. FELSIC SED, CARB
998	-	<5	TR-6 300E	V.F.G. FELSIC SED/TUFF, CARB
999	-	<5	TR-6 300E	QTZ-CARB-SERICITE
1000	-	<5	TR-6 300E	SIL.SER-SCHIST, SED?
5052	TR	-	TR-1 700W 0+12N	SAME AS 0+16N
5053	TR	-	11N	SAME AS 0+16N
5054	TR	-	10N	SAME AS 0+16N
5055	TR	-	09N	FELSIC XTAL TUFF, SER, MIN C.G. PYRITE
5056	TR	-	08N	AS IN 09N STRONGER FOLIATION
5057	TR	-	07N	AS IN 08N
5058	TR	-	06N	AS IN 08N, MORE PYRITE
5059	TR	-	05N	XTAL TUFF, CHLORITIC, 5-10% C.G. PYRITE
5060	TR	-	04N	AS IN 05N, LESS PYRITE
5061	TR	-	03N	AS IN 04N
5062	TR	-	02N	AS IN 04N, 2" QTZ. VEIN, HEM, <1% PYRITE
5063	TR	-	01N	FELSIC XTAL TUFF, SERICITIZED, >1% PYRITE
5064	TR	-	00	AS IN 01N, WITH CHL, PY STRING., <.25"
5065	TR	-	01S	XTAL TUFF, CHL, 2-5% C.G. PY
5066	TR	-	02S	AS IN 01S, LESS CHL, MORE PY IN STRINGERS

5067	TR	-	03S	AS IN 02S
5068	TR	-	13S	FELSIC TUFF,>1%PY,SER,6"Q.V.,HEMATITE
5069	TR	-	14S	AS IN 13S PY ASSOC.WITH CHL BNDS,SER
5070	TR	-	15S	FELSIC TUFF,SERICITE BANDING,AS 14S
5071	TR	-	16S	FELSIC TUFF,SER & 3-5%PY,QTZ VEIN
5072	TR	-	17S	AS IN 16S,6"QTZ VEIN
5073	TR	-	18S	FELSIC TUFF,C.G.PY,CHL,HEM.
5074	TR	-	19S	FELSIC TUFF,MINOR PY,10% CHLORITE
5075	TR	-	20S	AS IN 19S:NARROW QTZ VEIN

5126	TR	-	30N	
5127	TR	-	29N	XTAL TUFF,SER,STRINS.OF PY/CHL,3%PYRITE
5128	TR	-	28N	SIMILAR TO 30N,WEATHERED PY,3-5% PY
5129	TR	-	27N	AS IN 30N,INCREASED CHL,<PY
5130	TR	-	26N	AS IN 30N >CHL,<2%PY,SER,HEM
5131	TR	-	25N	XTAL TUFF,<SER >CHL,LESS BEDDING
5132	TR	-	24N	OFFSET 1.5m E,XTAL TUFF,1%PY,SER,QTZ
5133	TR	-	23N	XTAL TUFF,SER PARTINGS,Q.V.,1%PY, QTZ
5134	TR	-	22N	OFFSET 3m W,XTAL TUFF,1%PY,QTZ,CHL,HEM
5135	TR	-	21N	OFFSET 3m W,XTAL TUFF,CHL,<5%PY,SER,QTZ
5136	TR	-	20N	OFFSET 3m W,AS 21N,C.G.PY,CHL,QTZ VEINS
5137	0.01	-	19N	OFFSET 3m W,XTAL TUFF,F.G.,1%PY
5145	TR	-	18N	FELSIC XTAL TUFF,OXIDIZED,SER,MIN PY
5146	TR	-	17N	FELSIC XTAL TUFF,LESS OXIDE TO SOUTH
5147	TR	-	16N	FELSIC XTAL TUFF,MINOR OXIDE & PY
5148	TR	-	15N	AS IN 16N
5149	TR	-	14N	AS IN 16N
5150	TR	-	13N	AS IN 16N

8109 <.005 MINDEL CORE

9001	0.027	1900E 115N	FELSIC TUFF,HEMATITE,1-2% PYRITE
9002	0.05	1900E 490N	INTERMEDIATE LAPILLI TUFF,CHL,1%PYRITE
9003	0.02	2000E 400N	INTERMEDIATE LAPILLI TUFF 1% PYRITE
9004	0.005	2100E 300N	FEL.TUFF WITH INTER.TUFF 2%PYRITE
9005	0.01	2800E 1000N	MAFIC INT/FELDS.PORPH,CHL,1-2% PYRITE
9006	TR	2800E 950N	MASSIVE F.G.INTERM. TUFF 2-3% PYRITE
9007	0.005	1000E 650S	V.F.G.CHERTY SEDIMENT 1% PYRITE
9008	TR	2700W2 060S	INTERM.TUFF <1%PY.,CARB-CHL.
9009	0.01	2050W2 200S	V.F.G. SEDIMENT INTERBEDDED, M.A.
9010	0.02	PM-84	FELSIC TUFF,SERICITE,1%PY,FE-OXIDE
9011	TR	2600W2 025N	CHLORITIC MAF.VOLC.,QTZ STRINGERS,1%PY
9012	TR	PM-86	QTZ VEIN IN FEL-INTER TUFF,CHERT?
9013	NIL	PM-87	MASSIVE F.G. MAFIC TUFF,QTZ STRINGERS
9014	0.185	KONIGSON	SERICITE SCHIST 20% PYRITE;MINE SITE
9015	0.33	KONIGSON	Q.V. IN INTERM.TUFF <=50% PYRITE
9016	0.005	2100W2 200N	INTER-MAF VOLC.,CHL,HEM,<1% PYRITE
9017	0.005	2100W2 320N	V.F.G. MAFIC VOLCANIC 1%PYRITE
9018	TR	PM-92	F.G. MAFIC VOLCANIC <1% PYRITE
9019	0.005	1500W2 375N	INTERMEDIATE TUFF ;CHLORITE,<1% PYRITE

9020	TR	1600W2 650N	GOSSAN IN INTER-MAFIC TUFF;<1% PYRITE
9021	TR	1725W2 275N	INTERM.TUFF & XTAL TUFF<1% PYRITE
9022	NIL	1850W2 205N	V.F.G MAFIC VOLCANIC;MASSIVE-FOLIATED
9023	TR	2000W2 545N	F.G.XTAL TUFF;BRECCIATED,<1% PYRITE
9024	TR	2000W2 435N	INTERM.TUFF;SERICITE,<1% PYRITE
9025	TR	1740W 975S	FLOAT-F.G.INTERM.VOLC.PYRITE
9026	TR	1780W 975S	INTERMEDIATE VOLCANIC;C.G.PYRITE
9027	TR	1670W 1050S	F.G.INTERMEDIATE VOLC.+ QTZ VEIN
9028	TR	1765W BL00	SERICITIZED FELSIC VOLCANICS
9029	TR	2500W 060S	QTZ.VEIN IN F.G.MAFIC VOLCANIC
9030	TR	500W 083S	CARBONACEOUS INTERM.VOLC,1%PY,CONC.Q.V.
9031	0.005	K4016-17	PATENT:FEL.TUFF;X-CUT.Q.V.3%PYRITE
9032	0.04	K4016-17	PATENT;SERICITE SCH.CARB,2%PYRITE
9033	0.04	K4016-17	PATENT:QTZ VEIN IN TRENCH,WHITE-BULL
9034	0.03	K4016-17	FELSIC TUFF,CHLORITIC,3% PYRITE
9035	0.05	K4016-17	FELSIC TUFF,QTZ.STRINGS,SIDER,SER,
9036	0.09	310E 330S	FELSIC VOLCANIC SEDIMENT
9037	0.01	300E 385S	FELDSPAR PORPHYRY
9038	TR	475E 175S	FELDSPAR PORPHYRY
9039	TR	915E 550S	Q.V.IN TRENCH,FEL-MAFIC COUNTRY ROCK
9040	TR	?	CHANNEL-QTZ.VEIN IN FELSIC VOL.HOST
9041	TR	1590W 915S	V.F.G. XTAL TUFF (<=3% PYRITE
9042	0.005	1630W 985S	FELSIC TUFF ; BRECCIATED,<1% PYRITE
9043	TR	308E 648S	FELDSPAR PORPHYRY
9044	TR	620E 540S	MICRO-FELDSPAR PORPHYRY <1% PYRITE
9045	TR	890E 550S	QTZ.VEIN 6'WIDE
9046	TR	530E 225N	INTERMEDIATE VOLCANIC TUFF 1% PYRITE
9047	TR	2500W 1340S	SERICITIZED FELSIC TUFF
9048	0.005	1600W 900S	FELSIC-INTERMEDIATE VOLCANIC <1% PYRITE
9049	TR	1290E 075S	INTERM.TUFF;LAMINATED AND FOLIATED,CARB
9050	0.005	1500E 675S	SERICITIZED &CHLORITIZED FEL-INT.TUFF
9051	0.005	300E 600S	MASSIVE MICRO FELDSPAR PORPHYRY
9052	0.01	1625W 905S	LAMINATED V.F.G.FEL.XTAL TUFF(SED ?)2%PY
9053	0.01	MINDEL CORE	BETWEEN WEST AND CENTRAL HOLE IN TRENCH
9054	TR	MINDEL CORE	AS 9053
9055	TR	620W 515S	FINELY LAMINATED FELSIC TUFF (SED ?)
9056	TR	360W 410S	FELSIC-INTERMEDIATE TUFF;SHEAR ZONE
9057	0.005	700W 550S	FELSIC TUFF ; SILICEOUS
9058	0.005	500E 220N	FLOAT- SILICEOUS MAFIC VOLC. <1% PYRITE
9059	0.005	600W 550S	FELSIC TUFF;STRONG FOIATION,HEMATITE
9060	TR	398W 411S	SHEAR ZONE IN FELSIC TUFF
9061	TR	425W 335S	FELSIC TUFF;STRONG FOLIATION
9062	TR	1320E 050S	FELSIC TUFF;STRONG FOLIATION
9063	TR	300E 600S	INTERMEDIATE TUFF ;FOLIATED,CARBONATE
9064	TR	390E 793S	FELDSPAR PORPHYRY
9065	TR	1000E 550S	MICRO-FELDSPAR PORPHYRY
9066	TR	1165E	EAST OF LAKE;QUARTZ (?)
9071	TR	2690E 1230S	MASS.MAFIC TUFF QTZ STRINGS.<1% PY,CARB
9072	0.005	2680E 1215S	INT-MAFIC TUFF CHL,FE OXIDE,1% PYRITE
9073	TR	2375E 975S	INTER-MAFIC TUFF WEAKLY CARBONATIZED
9074	TR	2470E 1085S	V.F.G.MAFIC FLOW SILICEOUS,CARBONATE.
9075	TR	2465E 1235S	F.G.MAFIC TUFF 2-3% PY,FOLIATED

9076	TR		1005E BL00	FELSITE:STRONG FOIATION,POSS.OLD TRENCH
9077	TR		3015E 310S	FELSIC-INTER TUFF V.F.G.<1%PY,SERICITE
9078	TR		3225E 405S	V.F.G.MASSIVE,INTERM.VOLC. C03,<1%PYRITE
9079	TR		3210E 450S	INTERM.TUFF CHL,SIO2,11% PYRITE
9080	TR		3170E 345S	FELSIC TUFF,SERICITIZED,FE203,QTZ.
9081	NIL		3003E 300S	FELSIC TUFF <1%PYRITE
9082	NIL		3175E 300S	FELSIC TUFF HEAVY OXIDE
9083	TR		3210E 243S	FELSIC TUFF,HEAVY OXIDE
9084	TR		2600E 1200S	V.F.G.MAFIC VOLC.,C03,<1%PYRITE
9085	TR		2500E 1475S	MAFIC VOLCANIC,CHLORITIZED,C03
9086	TR		2400E 1270S	MAFIC TUFF,STRONG CHORITIZATION
9087	NIL		1120W 320N	SED ?,INTER-FEL VOLC.HIGHLY OXIDIZED
9088	NIL		2980E 855S	INTERM TUFF ADJ.TO QTARTZ VEIN
9089	NIL		1050W 048N	FELSITE,XTAL TUFF,LAPILLI SIZE FRAGS.
9090	NIL		1095W 012S	FELSIC TUFF ,SERICITE,1-2% PYRITE
9091	TR		1095W 322N	INTERMEDIATE TUFF 2-3% PYRITE
9092	TR		1035W 150N	INTERMEDIATE TUFF 2% PYRITE
9093	TR		3000E 920S	INTERMEDIATE TUFF <1% PYRITE
9094	TR		ROAD CONST.	MASSIVE SULPHIDE
9095	TR		ROAD	CEDAR NARROWS ROAD GOSSAN
9096	0.005		3185E 440S	INTERMEDIATE TUFF <1% PYRITE
9097	NIL		1080W 308N	FELSIC XTAL TUFF,SERICITE,2-5% PYRITE
9098	NIL		ROAD	ROAD CONSTRUCTION:LOVEGAYS DIORITE
9099	NIL		ROAD	AS 9098
9100	NIL		ROAD	ROAD CONSTRUCTION
9101	0.174	>1000	MILL SLOPE	SULPHIDE MUD
9102	6.41	>1000	MINE DUMP	QTZ VEIN FROM 9101,GLASSY,SER.ON EDGES
9103	0.480	>1000	MINE DUMP	SERICITIZED FELSIC TUFF,PYRITIC
9104	-	67	MINE DUMP	C.G.PY IN Q-C VEIN,IN SER-CHL-SCHIST
9105	0.012	432	MINE DUMP	C.G.PY.IN SERICITIC FELSIC TUFF
9106	0.061	>1000	MIME DUMP	PY.IN Q.V. & SERICITIC LAPILLI TUFF
9107	0.120	>1000	MINE DUMP	QTZ VEIN CUTTING SERICITE SCHIST,PY.
9108	-	383	MINE DUMP	FELSIC VOLCANIC ,HEAVY PYRITE MINER.
9109	-	62	MINE DUMP	Q.V. MASSIVE,WHITE,MINOR CHLORITE
9110	-	10	MINDLE CORE	WEST DRILL HOLE:FELS.VOLC.,PYRITE
9111	1.78	>1000	MILL SLOPE	SULPHIDE MUD
9112	1.04	>1000	MILL SLOPE	SULPHIDE MUD FROM MILL
9113	-	90	VIGOR CLAIM	SER.FEL.VOLC. TOP OF RIDGE N END VIGOR
9114	-	6	VIGOR CLAIM	INTERM.LAPILLI TUFF,FELDS-PHENOS,CARB.
9115	-	7	VIGOR CLAIM	AS 9114.BUT NO LAPILLI OR PY:OXIDE BNDS.
9116	-	5	VIGOR CLAIM	INTERM.TUFF,MINOR PYRITE
9117	-	<5	VIGOR CLAIM	QTZ-CARB VEIN IN INTERM.VOLC.
9118	-	8	VIGOR CLAIM	CHLORITIC SHEAR WITH CARB VEINS
9119	-	9	VIGOR CLAIM	CHLORITIC TUFF,CARB.VEINS MINOR PYRITE
9120	-	7	700E 100N	LOST DESCRIPTION
9121	-	22	??	QTZ-SERICITE TUFF,OXIDIZED BNDS,CHL.
9122	-	10	400W 100N	LAPILLI TUFF,PY,QTZ EYES
9123	-	24	175W 475S	F.G.SERICITIC FELSIC TUFF <1% PYRITE
9124	-	15	810E 215S	INTERM-FELSIC TUFF,PY,CARBONATE
9125	-	20	920E 775S	FELSIC TUFF,SERICITIZED,OXIDIZED
9126	-	<5	900E 750S	INTER-FELSIC TUFF,CHL,CARB,<1% PYRITE
9127	-	21	1000E 650S	FELSIC TUFF,CARB.ALONG FOL.PLANES,SER+CH

9128	-	39	1000E 725S	FELSIC TUFF,OXIDIZED,<1% PYRITE
9129	-	40	1500E 675S	FELSIC TUFF,OXIDIZED,QTZ.STRINGERS
9130	-	<5	1400E 285N	INTERM-FELSIC TUFF,1-2% PYRITE
9131	-	8	1500E 250N	INTER-FELSIC TUFF,<1% PYRITE
9132	-	22	1700E 285N	INTERM.TUFF ,CARBONATE,<1% PYRITE
9133	-	5	1700E 375N	INTERM.TUFF,CARB,2%PY,WEAK FOLIATION
9134	-	23	1700E 425N	INTERM TUFF,CHL,CARB,EPI,10%PYRITE
9135	-	31	660W 040N	FELSIC TUFF <1% PYRITE
9136	-	36	750W BL	FELSIC TUFF 3% PYRITE
9137	-	29	TR-1 800W 170N	F.G.FELSIC TUFF,QTZ,SERICITE
9138	-	<5	TR-1 800W 170N	FELSIC TUFF,OXIDIZED,QTZ,SERICITE
9139	-	49	TR-1 800W 170N	INTERM TUFF 2-5% PYRITE
9140	-	9	TR-2 820W 170N	FEL-INTER TUFF,CARB,1-2% PYRITE
9141	-	26	TR-3 840W 150N	FELSIC TUFF CHLORITIC
9142	-	140	TR-5 850W 150N	NO DESCRIPTION ON TAG
9143	-	6	TR-4 850W 130N	FELSIC TUFF,SERICITIC
9144	-	10	TR-4 850W 130N	F.G. INTERM.TUFF,CHLORITE
9145	-	96	TR-5 850W 150N	LAPILLI TUFF 5% PYRITE
9146	-	110	TR-5 850W 150N	INTERMEDIATE TUFF,HIGHLY FOLIATED
9147	-	71	TR-6 875W 160N	INTERMEDIATE TUFF 1% PYRITE
9148	-	220	MINDEL DDH#1	INTERM-FELSIC TUFF 5% PYRITE
9149	-	210	MINDEL DDH#1	FELSIC TUFF,SERICITIC,2% PYRITE
9150	-	47	MINDEL DDH#1	FELSIC XTAL TUFF,1% PYRITE
9151	-	<5	trench ?	SERICITE SCHIST <=10% PYRITE
9152	-	18	MINDEL DDH#2	F.G.INTERM.VOLC.,CARB,10% PYRITE
9153	-	38	MINDEL DDH#2	F.G.INTERM.TUFF,SERICITE,2% PYRITE
9154	-	18	MINDEL DDH#2	INTERM.TUFF,3-5% PYRITE
9155	-	130	TR-7 930W 165N	INTERM.TUFF,SERICITE,5% PYRITE
9156	-	170	TR-7 930W 165N	F.G. INTERM.TUFF,SERICITE,3% PYRITE
9157	-	11	TR-7 930W 165N	INTERM.TUFF,OXIDIZED,2% PYRITE
9158	0.054	>1000	935W 185N	SERICITIC TUFF,OXIDIZED,SHEARED,3% PY
9159	0.055	>1000	975W 235N	F.G.INTERM.TUFF 2% PYRITE
9160	-	170	945W 325N	FELSIC TUFF <1% PYRITE
9161	-	60	1000W 175N	FELSIC TUFF <1% PYRITE
9162	-	39	1070W 060N	F.G.QTZ-FELSIC-TUFF,2%PY,CARBONATE
9163	-	42	PM-44	F.G. XTAL TUFF <1% PYRITE
9164	-	60	MINDEL DDH#3	INTERM-FELSIC TUFF,HIGHLY SERICITIZED
9165	-	8	1250W 330N	INTERM.TUFF,CHLORITIC,5% PYRITE
9166	-	81	PM-49	FELSIC TUFF ,SERICITE,20% PYRITE
9167	0.06	>1000	PM-50	QTZ VEIN:VUGGY,MASSIVE PYRITE
9168	-	157	PM-51	INTERM.TUFF,PY,SERICITE
9169	-	240	PM-52	FEL-INTERM TUFF,MASSIVE SULPHIDES-35%
9170	-	46	1150W 280N	XTAL TUFF <1% PYRITE
9171	-	24	1150W 320N	FELSIC TUFF
9172	-	6	600E 1150S	F.G.INTERMEDIATE TUFF
9173	-	9	300E 025S	MAFIC FLOW,AMYGMALOIDAL,FE STAIN
9174	-	15	200E 410S	MAFIC VOLC,CHLORITIZED,EPIDOTE.
9175	-	17	100E 225S	??????
9176	-	6	RC-14	V.F.G.INTER-MAFIC VOLC,PY AND LIMONITE
9177	-	22	475W 360S	ASH-LAPILLI TUFF(POSS ARKOSIC SED)
9178	-	37	RC-16	FELDSPAR PORPHYRY,PY.
9179	-	24	RC-17	V.F.G. HEM-MAG.RICH SILICEOUS SEDIMENT

9180	-	<5	1500W 150N	BNDED FEL.TUFF,SERICITE,QTZ.EYES
9181	-	<5	1550W 385N	CHERT ? CARB.CHLORITIC,SERICITIC
9182	-	<5	1600W 150N	FELSIC TUFF,CARBONATE,SERICITE
9183	-	7	PM-57	INTERM.TUFF,PYRITE
9184	-	15	2300W 435N	FELSIC-INTERM.TUFF,CHLORITIC,1-2% PY
9185	-	<5	3200E 1500S	V.F.G.SED,F.G.PY,CONCOIDAL FRACTURE
9186	-	<5	3180E 775S	MAFIC VOLC,<1% PYRITE
9187	TR	-	2280W 1050S	MASSIVE F.G.MAFIC VOLC.1-2%PYRITE
9188	TR	-	3000E 825N	INTERM-MAFIC VOLC.<1%PY,CARB,EPIDOTE
9189	TR	-	3100E 950N	COARSE FRAGMENTAL VOLC,<1%PY,EPI-CHL
9190	0.005	-	2400E 325S	FELSIC TUFF,SERICITE,CHL,CARB,1% PY
9191	TR	-	2250E 1425S	V.F.G.INTERM.VOLC.TUFFACEOUS,CARB,2%PY
9192	TR	-	2300E 235S	FELSIC TUFF,SERICITE,HEMATITE,2% PY
9193	TR	-	2230E 435S	FELSIC TUFF,HEMATITE,QTZ.VEINLETS,1-2%PY
9194	0.005	-	2000E 1475S	F.G.INTERM.TUFF,CARBONATIZED,5% PYRITE
9195	TR	-	1900E 500S	FELSIC TUFF,CHLORITIC,HEM,1-2% PYRITE
9196	0.005	-	1700W 1175S	MASSIVE F.G.FELSIC TUFF,SER,1-2%PYRITE
9197	TR	-	1800W 1000S	QTZ.VEIN,MILKY WHITE,OXIDIZED
9198	0.005	-	1840W 1000S	FELSIC TUFF,<2%PY,CARBONATE(AGGLOMER ?)
9199	0.005	-	1750W 1150S	F.G. INTERM-FELSIC TUFF,1-2% PYRITE
9200	TR	-	2600E 625N	F.G.INTERM-MAFIC TUFF,EPIDOTE,1-2% PY

10308	TR	58	147.0-153.0
10309	TR	41	153.0-156.5
10310	TR	53	156.5-158.5
10311	TR	140	158.5-163.0
10312	TR	538	163.0-163.8
10313	TR	40	163.8-164.5
10314	TR	28	164.5-167.0
10315	TR	70	137.5-141.0
10316	TR	51	118.0-122.0
10317	TR	80	130.5-135.0
10318	TR	48	135.0-137.5
10319	TR	252	8.0- 12.0
10320	TR	49	26.0- 29.5
10321	TR	130	33.0- 38.0
10322	TR	47	48.0- 50.0
10323	TR	37	58.0- 61.0
10324	TR	20	65.0- 67.0
10325	TR	34	80.0- 83.0
10326	TR	57	84.0- 86.0

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10327	TR	40	3.0- 8.0
10328	TR	44	8.0- 12.0
10329	0.32	33	12.0- 17.0
10330	TR	58	17.0- 22.0
10331	TR	23	22.0- 28.5
10332	TR	24	28.5- 33.0
10333	TR	20	33.0- 38.0
10334	TR	27	38.0- 43.0
10335	TR	63	43.0- 48.0
10336	TR	72	48.0- 53.0
10337	TR	40	53.0- 58.0
10338	TR	34	58.0- 60.5
10339	TR	48	60.5- 65.0
10340	TR	46	65.0- 70.0
10341	TR	10	70.0- 75.0
10342	TR	<5	75.0- 80.0
10343	TR	120	80.0- 85.0
10344	TR	23	85.0- 90.0
10345	TR	7	90.0- 95.0
10346	TR	10	95.0- 100.0
10347	TR	50	100.0- 105.0
10348	0.02	848	105.0- 110.0
10349	0.01	154	110.0- 117.0
10350	TR	13	117.0- 122.0
10351	TR	<5	122.0- 127.0
10352	0.01	<5	127.0- 132.0
10353	TR	<5	132.0- 137.0

10354	TR	<5	137.0-	142.0
10355	TR	<5	142.0-	147.0
10356	TR	<5	147.0-	152.0
10357	TR	<5	152.0-	157.0
10358	TR	<5	157.0-	162.0
10359	TR	<5	162.0-	167.0
10360	TR	30	167.0-	172.0
10361	TR	27	172.0-	177.0
10362	TR	<5	177.0-	182.0
10363	TR	5	182.0-	187.0
10364	TR	86	187.0-	192.0
10365	TR	<5	192.0-	197.0
10366	TR	426	197.0-	205.0
10367	TR	75	205.0-	210.0
10368	TR	60	210.0-	216.0
10369	TR	<5	244.0-	247.0
10370	TR	27	247.0-	250.0
10371	TR	30	262.0-	266.0
10372	TR	60	275.0-	277.0
10373	TR	27	304.0-	308.0
10374	TR	68	309.0-	311.0

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10375	TR	38	7.0-	13.0
10376	TR	66	42.6-	45.5
10377	TR	52	49.0-	51.0
10378	TR	86	69.0-	72.0
10379	TR	13	78.5-	79.5
10380	0.02	170	119.8-	123.0
10381	TR	41	123.0-	126.5
10382	TR	53	129.0-	132.5
10383	TR	65	157.0-	162.0
10384	TR	24	132.5-	135.0
10385	TR	71	162.0-	165.0
10386	0.01	52	165.0-	170.0
10387	TR	29	170.0-	176.0
10388	TR	55	185.0-	187.0
10389	TR	33	215.0-	221.0
10390	TR	17	246.5-	251.0
10391	TR	20	251.0-	257.0

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10392	TR	41		
10393	TR	20		
10394	TR	24		
10395	TR	41		
10396	TR	29		
10397	TR	44		
10398	TR	76		
10399	TR	27		

10400	TR	10		REMAINDER OF SL-83-5 AT TAG# 10745
10401	TR	-	TR-4 400W 4+06S	INTERM.VOLC.VERY FOLIATED-SER,HEM,Q-C
10402	TR	-	07S	AS IN 06S
10403	TR	-	08S	AS IN 06S
10404	TR	-	09S	AS IN 06S
10405	TR	-	10S	INTERM.VOLC.LESS FOLIATED,HEM,1% F.G.PY
10406	TR	-	11S	INTERM.VOLC.INTERB.Q-C BNDS,HEM.STAIN
10407	TR	-	12S	FELSIC VOLC.Q-C BNDS,MUCH SER,HEM.STAIN
10408	TR	-	13S	FELSIC VOLC.,SER,INTERC.Q-CBNDS,HEM.
10409	TR	-	TR-3 500W 4+17S	FELSIC VOLC,SER,Q-C VEINLETS,HEMATITE
10410	TR	-	18S	INTERM.VOLC.5cm Q-C VEIN,MUCH HEMATITE
10411	TR	-	19S	INTERMEDIATE-MAFIC VOLCANIC
10412	TR	-	20S	INTER-FELSIC VOLC.Q-C,HEM.SPOTS,POOR FOL
10413	TR	-	21S	AS IN 20S
10414	TR	-	22S	INTERM-FELSIC VOLC,2cm,Q-C-HEM VEIN
10415	TR	-	23S	INTERM-FELSIC VOLC.ABUNDANT HEMATITE
10416	TR	-	24S	INTERM-MAFIC VOLC..5cm Q-C-HEM BNDS
10417	TR	-	25.5S	4" Q-C-HEM VEIN,SCHISTOSE CONTACTS
10418	TR	-	23.5S	8"Q-C VEIN,1% F.G. PYRITE
10419	TR	-	25S	VOLC.SEDS,WELL BEDDED,SIO2,MIN CARB-HEM
10420	TR	-	26S	VOLC.SEDS,WELL BEDDED,SER-HEM ON BED.
10421	TR	-	27S	INTERM.VOLC.,HEAVY HEMATITE STAIN
10422	TR	-	28S	INTERM.VOLC,INTERC.Q-C BNDS,HEMATITE
10423	TR	-	29S	INTERM.VOLC.INTERCALATED Q-C BNDS
10424	TR	-	30S	AS IN 29S
10425	TR	-	31S	INTERM.VOLC.HEM,CARB STRINGERS
10426	TR	-	32S	INTERM.VOLC.HEM ON FOLIATION & SPOTS
10427	TR	-	33S	INTER-MAF.VOLC.Q-C BNDS,F.G. PYRITE
10428	TR	-	34S	AS IN 33S
10429	TR	-	35S	AS IN 33S
10430	TR	-	36S	INTER-MAFIC VOLC,Q-C STRIN.PAR.FOLIATION
10431	TR	-	37S	INTERM.VOLC.Q-C,HEMATITE
10432	TR	-	38S	AS IN 37S
10433	TR	-	39S	INTER-MAFIC VOLC.WEAK FOLIATION
10434	TR	-	40S	AS IN 39 WITH Q-C STRINGERS
10435	TR	-	TR-2 600W 5+08S	FELSIC VOLC.SER-HEM,30cm BND OF MAF.VOLC
10436	TR	-	09S	FELSIC VOLC.,SER,HEM,CARB,WELL FOLIATED
10437	TR	-	10S	AS IN 09S
10438	TR	-	11S	AS IN 09S
10440	TR	-	12S	FELSIC VOLC.,ALTERED,HEM,CARB.STRINGERS
10441	TR	-	13S	MAFIC VOLC. 3-4mm CARB.STRINGERS
10442	TR	-	17S	MAFIC VOLC.,QTZ-CARB SPOTS,>1%PYRITE
10443	TR	-	18S	AS IN 17S
10444	TR	-	22S	MAFIC & FELSIC VOLC,SER,HEM
10445	TR	-	23S	VOLC.SEDS.,CHERT,BEIGE-PINK
10446	TR	-	24S	VOLC.SEDS,CHERT
10447	TR	-	25S	VOLC.SEDS.CHERT,BEDDED
10448	TR	-	26S	VOLC.SEDS.ABUNDANT CHERT
10449	TR	-	27S	VOLC.SEDS.CHERT,BEDDED,BEIGE-PINK

10450	0.01	-	28S	AS IN 27S
10451	TR	-	29S	AS IN 27S
10452	TR	-	30S	AS IN 27S
10453	TR	-	31S	AS IN 27S
10454	TR	-	32S	AS IN 27S
10455	TR	-	33S	CARBONATE;MASSIVE,WHITE-BEIGE-PINK,Q.V.
10456	TR	-	34S	AS IN 33S
10457	TR	-	35S	AS IN 33S;HEMATITE STAINED
10458	TR	-	36S	AS IN 33S
10459	TR	-	37S	AS IN 33S

10469	TR	-	WEST TRENCH	MAFIC VOLCANIC
10470	TR	-	WEST TRENCH	MAFIC VOLCANIC
10471	TR	-	WEST TRENCH	INTERM-MAFIC VOLCANIC,2% PYRITE
10472	TR	-	WEST TRENCH	AS 10471.
10473	TR	-	WEST TRENCH	AS 10471
10474	TR	-	WEST TRENCH	AS 10471
10475	TR	-	WEST TRENCH	RAPIKIWI WITH 1% PYRITE
10476	TR	-	WEST TRENCH	RAPIKIWI/MAFIC VOLC.CONTACT ZONE
10477	TR	-	WEST TRENCH	AS 10476
10478	TR	-	WEST TRENCH	MAFIC VOLCANIC,PYRITE
10479	TR	-	WEST TRENCH	MAFIC VOLC./RAPIKIWI CONTACT
10480	TR	-	WEST TRENCH	INTERM.VOLC.,F.G.SILICEOUS,2% PY,CARB.

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10701	0.01	357	8.0-	13.0
10702	TR	86	13.0-	18.0
10703	TR	140	18.0-	23.0
10704	TR	26	23.0-	28.0
10705	TR	13	28.0-	33.0
10706	TR	16	33.0-	38.0
10707	TR	150	38.0-	43.0
10708	TR	N.S.	43.0-	48.0
10709	TR	20	48.0-	52.5
10710	TR	17	53.0-	55.0
10711	TR	12	61.5-	62.5
10712	TR	10	61.0-	68.5
10713	TR	13	84.0-	86.0
10714	TR	6	102.0-	107.0
10715	TR	<5	107.0-	113.0
10716	TR	6	113.0-	118.0
10717	TR	12	118.0-	124.0
10718	TR	6	132.0-	134.0
10719	TR	8	138.0-	143.0
10720	TR	13	143.0-	148.0
10721	TR	16	148.0-	152.0
10722	TR	20	159.0-	164.0
10723	TR	21	164.0-	169.0
10724	TR	<5	169.0-	174.0
10725	TR	23	174.0-	179.0
10726	TR	60	197.0-	199.5

10727	TR	20	210.0-213.0
10728	TR	23	216.5-217.5
10729	TR	6	228.0-229.0
10730	TR	13	233.5-238.5
10731	TR	17	241.5-246.0
10732	TR	17	246.0-251.5
10733	TR	15	251.5-256.0
10734	TR	23	256.0-261.0
10735	TR	<5	261.0-266.0
10736	TR	<5	266.0-271.0
10737	TR	56	271.0-276.0
10738	TR	23	276.0-281.0
10739	TR	50	281.0-286.0
10740	TR	20	286.0-291.0
10741	TR	27	291.0-296.0
10742	TR	322	296.0-301.0
10743	TR	157	301.0-306.0
10744	TR	33	306.0-311.0
NOTAG	TR	26	

SL-83-5
(cont. from tag# 10400)

10745	TR	6	70.0- 75.0
10746	TR	23	75.0- 80.0
10747	TR	21	80.0- 85.0
10748	TR	23	85.0- 90.0
10749	TR	<5	90.0- 93.0
10750	TR	<6	96.0- 97.0
10751	TR	10	100.0-104.5
10752	TR	10	115.5-116.5
10753	TR	140	133.0-134.0
10754	TR	<5	138.0-140.0
10755	TR	<5	154.0-159.0
10756	TR	<5	159.0-164.0
10757	TR	9	164.0-169.0
10758	TR	<5	169.0-174.0
10759	TR	<5	174.0-179.0
10760	TR	<5	179.0-182.0
10761	TR	<5	206.0-212.0
10762	TR	50	218.0-218.5
10763	TR	31	220.0-225.0
10764	TR	10	229.0-234.0
10765	TR	13	234.0-239.0
10766	TR	30	239.0-244.0
10767	TR	<5	244.0-249.0
10768	TR	13	249.0-254.0
10769	TR	15	254.0-259.0
10770	TR	10	259.0-264.0
10771	TR	7	264.0-269.0
10772	TR	26	269.0-274.0
10773	0.01	804	274.0-279.0

10774	TR	26	279.0-284.0
10775	TR	33	284.0-289.0
10776	TR	38	289.0-294.0
10777	TR	48	294.0-299.0
10778	TR	20	299.0-302.0
10779	TR	13	302.0-307.0
10780	TR	20	307.0-312.0
10781	TR	17	312.0-316.0
10782	TR	31	316.0-321.0
10783	TR	20	321.0-326.0
10784	TR	17	326.0-331.0
10785	TR	10	331.0-336.0
10786	TR	13	336.0-341.0
10787	0.02	<5	341.0-346.0
10788	0.01	7	346.0-350.0
10789	TR	12	350.0-354.0
10790	0.01	145	354.0-359.0
10791	TR	57	359.0-364.0
10792	TR	<5	364.0-369.0
10793	TR	<5	369.0-374.0
10794	TR	<5	374.0-379.0
10795	TR	<5	379.0-384.0
10796	TR	<5	384.0-389.0
10797	TR	<5	384.0-389.0

TR	-	TR-7 500W 0+20N	INTERM.TUFF,F.G.PY BNDS,CHL,QTZ STRINGS
TR	-	21N	AS IN 20N
TR	-	22N	AS IN 20N
TR	-	23N	AS IN 20N
TR	-	24N	F.G.INTERM.TUFF,F.G.PY,QTZ.STRINGERS
TR	-	25N	AS IN 24N;>2% PYRITE
TR	-	26N	INTERM.TUFF,PY,SER,CHL,QTZ.STRINGERS
TR	-	27N	AS IN 26N
TR	-	28N	AS IN 26N
TR	-	29N	AS IN 28N: <=7% PYRITE
TR	-	30N	AS IN 29N
TR	-	31N	ALTERED TUFF AS IN 30N,5% PYRITE
TR	-	32N	MAFIC VOLCANIC,1% PYRITE
TR	-	33N	AS IN 32N;WITH C.G.CALCITE VEINLETS
TR	-	34N	AS IN 33N
TR	-	35N	INTERM.TUFF,ALTERED,SERICITIZED,MIN PY
TR	-	36N	AS IN 35N
TR	-	37N	AS IN 35N;WITH STRINGERS OF PYRITE (4%)

PR-1 .001
PR-2 .001

SULPHIDE SHOWING ON ROAD
FLOAT:E OF ROAD TOP OF RIDGE

SPARTON RESOURCES INC.

STRAW LAKE PROJECT

SECTION 3

PROSPECTING SURVEY

1983 EXPLORATION PROGRAM

INTRODUCTION

This section summarizes the activities of J.Scouten and crew in the Mister Lake Area of the Straw Lake Property of Sparton Resources Inc. for the 1983 season.

J.Scouten,D.Scouten,S.Johnson,and R.Nixon were contracted,in the capacity of independant contractor,to prospect in this area according to the terms and conditions of a letter agreement signed by J.Scouten and P.Matthews in May, 1983

FIELD METHODS

Traverses were generally run north-south to cross the stratigraphy, which trends at 060 to 090 throughout the prospected area.

The start of each traverse is flagged in the field and every 50 m along the traverse route.Sample locations are also flagged in the field.Crews of two prospected intensively along the traverse routes,with the attempt being made to cover as much area as possable on either side of the line.Moss and overburden were frequently stripped to expose previously unexamined bedrock.

Samples were taken wherever sulphide mineralization,carbonate alteration significant quartz veining or heavy rusty weathering was encountered.Most samples taken were chip samples,usually over a one square metre area.Many grab or chip samples were also taken.No soil samples were taken.

Encouraging samples,especially those near the periphery of the claim group,were crushed,roasted,and panned to gain an indication of the need for follow-up work or further staking.

It was attempted to give uniform coverage to the area,with traverse lines no further apart than 200m.More detailed coverage was given to certain ares.

Access was gained to the various work area either by foot from Mister Lake,or from the many other small lakes accessible by canoe with short portages.

SAMPLE DIARY/MAPS

All traverses and rock sample locations are plotted on the following maps at 1:10000.The following sample diary includes the sample number,gold values in ppb,sample location,and a description of the rock sample.

SPARTON RESOURCES INC.

STRAW LAKE
SAMPLE DIARY
MISTER LAKE PROSPECTING
1983

TAG #	AU oz/t	AU ppb	LOCATION	DESCRIPTION
9201JS		11	TRAV.35 50m	SHEARED FEL. VOLC,CHERT LENSES,PY,MAG.
9202JS		12	36 290m	INTERM.TUFF,FELSIC LENSES,MASS,F.G.,PY
9203JS		12	36 350m	INT-FEL VOLC.,GOSSAN,1ZPYRITE
9204JS		13	36 390m	FELSIC VOL.MASSIVE,F.G.,PYRITE
9205JS		17	37 225m	APHANITIC,MASSIVE,INT.VOLC.PYRITE
9206JS		12	37 230m	APHAN,F.G.INTERM.VOLC.GOSSAN BNDS,PY
9207JS		19	37 320m	SHEARED F.G.INTERM VOLC.GOSSAN,2ZPY
9208JS		21	37 830m	F.G.-M.G.INTERM VOLC,F.G.PYRITE
9209JS		16	37 830m	M.G.MASSIVE,INT-FELSIC VOLC.PYRITE
9210JS		11	37 960m	QUARTZ VEIN(1m)IN INTERM VOLC,MASSIVE
9211JS		16	38 941m	MAFIC FELDS.PORPH.PYRITE
9212JS		17	40 190m	F.G. FELSIC VOLC.BNDS OF WHITE RHY.
9213JS		14	40 250m	F.G. FELSIC VOLC,SHEARED,GOSSAN,PY
9214JS		17	40 260m	SERICITE SCHIST,PYRITE,OLD TRENCH
9215JS		19	41 260m	F.G.SHEARED FEL.VOLC.RUSTY,PYRITE
9216JS		19	18A 80m	QUARTZ FLOAT,ROUNDED,1m LONG
9217JS		15	18A 295m	GREY.F.G.APHAN.FELS.VOLC.10ZPY,FLOAT
9218JS		11	SHORELINE	SHEARED FELSIC VOLC.SER,HEM,TR. OF PY
9219JS		13	13A 175m	MASSIVE MAFIC VOLC,CARB.FRACTURES
9220JS		19	SHORELINE	FLOAT-ANGULAR,MAGNETITE AND PYRITE
9221JS		18	SHORELINE	INTENSLY SHEARED FEL.VOLC.1ZPY,Q.V.
9222JS		9	SHORELINE	FLOAT-QTZ,SUBANGULAR,PYRITE
9223JS		9	SHORELINE	FLOAT-QTZ-CARB,PYRITE
9224JS		<5	SHORELINE	SILICEOUS,FELSIC TUFF,LIMONITE,SER.
9225JS		13	SHORELINE	AS 9223 PLUS SIDERITE ?
9226JS		13	28 200m	QUARTZ "SWEAT",IN MASS.APH.FEL.VOLC.
9227JS		10	29 1030m	MASS.F.G.FEL.VOLC,QTZ VEINLETS,PY
9228JS		74	29 1050m	FELSIC VOLC,SILICIFIED + PROPYLITIZED
9229JS		29	42 260m	FLOAT-V.F.G.FEL.VOLC,PLATY,PY,
9230JS		9	42 300m	FELSIC VOLC,MOD.SHEARED,LIMONITE,PY
9231JS		12	SHORELINE	FELSIC VOLC?,GREEN/GREY,RUSTY
9232JS		17	SHORELINE	FLOAT-APHANITIC,,BROWN,POSS.TOURMALINE
9233JS		11	SHORELINE	RHYOLITE,PINK/BROWN,PY,MAG,WEAK FDL.
9234JS		8	SHORELINE	FLOAT-FELSIC VOLC?,<10ZPY-CPY,MAL
9235JS		44	SHORELINE	FLOAT-SUBANGULAR,MINOR CARBONATE

9236JS	10	36A	230m	FELSIC, GREY/GREEN, >1ZPY,
9237JS	9	36A	395m	FELSIC VOLC, APHAN, 1ZPY, GOSSAN
9238JS	15	36A	500m	FELSIC VOLC LAPILLI IN INT. VOLC MAT.
9239JS	54	36A	MAP	INTERM. VOLC ?, CARBONATIZED
9240JS	8	36A	MAP	INTERM. VOLC. GOSSAN VENEER
9241JS	12	36A	MAP	FELSIC VOLC, APHAN, 1ZPY
9242JS	11	31A	100m	FELSIC VOLC, PINK, <1ZPY or MAG:Q.V.
9243JS	13	31A	180m	AS 9242
9244JS	11	43	0m	F.G.-M.G. INTERM VOLC. 1ZPY, RUSTY
9245JS	8	43	160m	MAFIC VOLC. CHLORITIC, F.G. PYRITE
9246JS	12	44	300m	FEL-INTERM. VOLC. RE/BROWN Q. VEINLETS
9247JS	10	44	340m	FELSIC VOLC. PINK, ADJ TO MAFIC FLOW
9248JS	11	44	400m	FLOAT-FELSIC, HEM-LIMONITE STAINED
9249JS	13	18A	38m	F.G. INTERM. VOLC, BLACK, RUSTY ZONES
9250JS	9	18A	78m	INTERM. VOLC, MOD. SHEARED, MIN. PYRITE
9251JS	15	36	665m	INTERM. VOLC. MASSIVE, VEINLETS OF PY-CAR
9252JS	12	36	780m	INTERM. VOLC, MUCH PY,
9253JS	18	37	190m	INTERM. VOLC. MASSIVE, MIN. F.G. PYRITE
9254JS	13	37	965m	Q.V IN INTERM. VOLC, STOCKWORK
9255JS	15	37	1150m	FEL-INTERM. VOLC, M.G., DISS PYRITE
9256JS	15	38	325m	FELSIC VOLC. SHEARED, PYRITE
9257JS	18	38	620m	INTERM VOLC, SHEARED, F.G., PYRITE
9258JS	17	38	775m	INTERM. VOLC, MASSIVE, PYRITE
9259JS	11	40	380m	TRENCH POP: 7' Q.V., FEL. HOST, SER, PY
9260JS	13	40	25m	INTERM. VOLC. MOD. SHEARED, PYRITE ZONES
9261JS	0.056	32A	280m	Q. VEINS IN INTERM. VOLC. INTEN. SHEARING
9262JS	>1000	32A	285m	TRENCH-Q.V IN FEL. VOLC, SIDERITE?
9263JS	33	SHORELINE		FELSIC VOLC, APHAN, PINK, <1ZPY, RUSTY
9264JS	38	SHORELINE		FELSIC VOLC, FISSILE, SER-HEM.
9265JS	8	18A	120m	Q.V. (.5m), SHEARED INTERM. VOLC.
9266JS	11	8B	45m	FEL. VOLC, SHEARED, GOSSANOUS, 3ZPY
9267JS	9	6A	60m	TRENCH- QTZ-CARB. VEINS IN #9269
9269JS	8	6A	60m	FELSIC VOLC. PINK/GREEN, SER,
9271JS	11	6A	60m	TRENCH- 20m W OF 9267, MINOR QTZ.
9273JS	5	6A	60m	TRENCH- 30m W OF 9267 QTZ & WALL RX
9501JS	7	6A	60m	INTERM. VOLC, APHAN, MASSIVE, MIN SER
9502	11	1	40m	INTERM. VOLC, APHAN, SHEARED, SER, Q. STOCK
9503	10	1	450m	M.G-C.G. FRAGS IN MAFIC VOLC.
9504	17	1	600m	PORPHYRITIC GABBRO, 50% PHENOS
9505	12	1	660m	F.G. INTERM. VOLC, MIN. SER, 2ZMAG, Q.V.
9506	12	1	780m	F.G. INT. TUFF, X-BED: GRADED, Q-C VEINS
9507	13	2		M.G. FELSIC VOLC, SERICITE, Q.V. PYRITE
9508	5	2		F-M.G. INTERM. VOLC, SER-CARB, QV. + PY
9509	<5			M.G. FELSIC VOLC, FRAG OF FLOW RHY, SER
9510	5			AS 9509, SER-CARB, Q.V. STOCKWORK, PY
9511	12			FEL. VOLC. HORNEFELSIC JOINTS, APH, C.G. PY
9512	12			INTER. VOLC, MINER SHEARING
9513	7	3	155m	FLOAT- QUARTZ
9514	7	3	355m	FEL. VOLC, HIGH SHEAR (QFP ?), SER, Q. STOCK
9515	8	3	800m	M.G-C.G. FEL. VOLC, CHL/SER, PYRITE
9516	9	3	988m	INTERM. VOLC, F.G., MINOR SER, PYRITE
9517	<5	3	1010m	FLOAT-QUARTZ

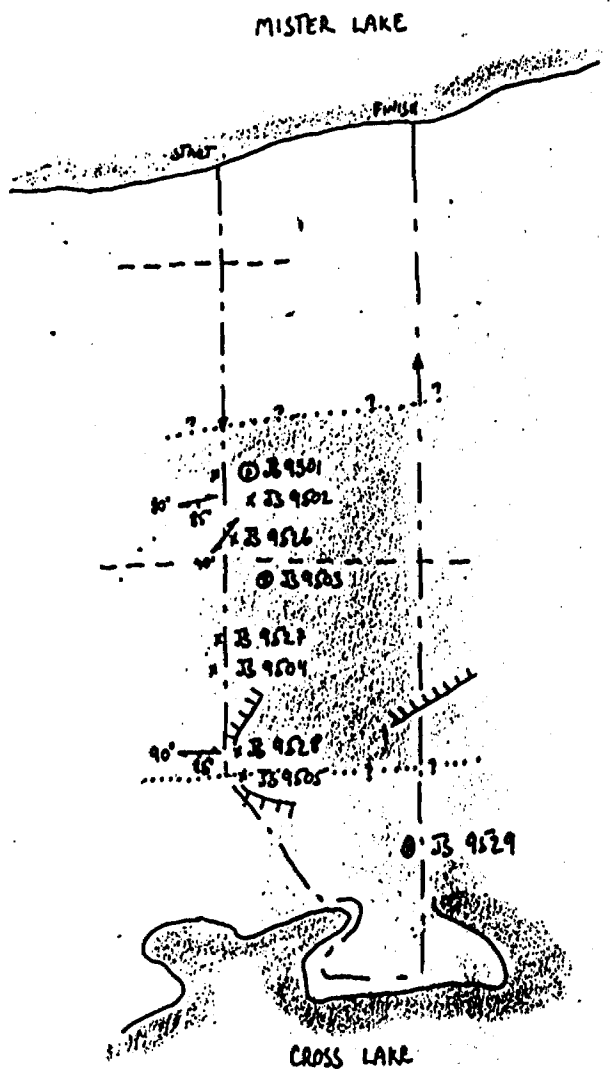
9518	10	3	1110m	ARKOSIC SED, (FEL.TUFF ?), PY-CPY
9519	9	6	1150m	INT.TUFF, F.G., 20cm Q.V., BRECCIATED
9520	10	9	202m	INT.VOLC.F.G.-M.G., 18cm Q.V.
9521	20	9	625m	INT.VOLC.F.G.-C.G., QTZ-ANK VEINS
9522	22	9	840m	FELSIC VOLC, F.G-M.G., SER, QTZ-ANK, PY
9523	5	11	2m	FELSIC VOLC.F.G., SERICITE, PYRITE
9524	20	11	1590m	FELSIC VOLC, F.G.WEAK SHER., SER-QTZ
9525	9	11	1600m	INT.VOLC., F.G., SHEARED, QTZ-PY
9526	8	1	500m	MAFIC/FELSIC CONTACT, PLATY/PHYLLITIC
9527	16	1	630	INT.VOLC ?, CARB,
9528	14	1	770m	INT.VOLC, QTZ-ANK.VEINS, PYRITE
9529	31	1	1100m	FLOAT
9530	9	3	220m	FELSIC VOLC, GREY, CLOSE TO GABBRO CONT.
9531	10	3	385m	FELSIC TUFF, INTENSLY SHEAR, STRET.FRAGS
9532	5	3	840m	FELSIC VOLC, SILICEOUS, PYRITE
9533	8		MISTER L.	FLOAT-QUARTZ
9534	14		MISTER L.	FEL.VOLC, SHEARED, Q.V.PARALLELL FOLIAT.
9535	13		MISTER L.	FLOAT-QUARTZ
9536	17		MISTER L.	FELSIC VOLC.GREY/BLACK, RANDOM Q.V.
9537	16		MISTER L.	FEL.VOLC, APHAN, GREEN, F.G.PY IN BNDS
9538	5		MISTER L.	FEL.VOLC, APHAN, CHERTY FRAGS, PYRITE
9539	7	4	775m	SILICIFIED SHEAR ZONE, FELSIC VOLC,
9540	14	4	915m	'MARBLED' BROWN/GREY MASS.FEL.VOLC, PY
9541	10	4	2575m	FEL.VOLC, SHEARED, LARGE-SMALL FRAG
9542	8	7	300m	F.G.INTER.VOLC?, 30%Q.VEINS, CARB
9543	11	7	1460m	FEL.VOLC, APHAN, GREY/GREEN, Q.V., HEM.
9544	5	7	1700m	SERICITIZED LIGHT GREEN ROCK, PY
9545	10	8	10m	VERY GOSSANOUS FEL.VOLC.PHYLLITIC
9546	6	8	130m	MAFIC VOLC, MUCH Q.V., CHL,
9547	8	8	1810m	INTERM.VOLC, SHEARED, HEM STAIN BNDS, PY
9548	<5	11	25m	FELSIC VOLC?, INTENSE.SHEAR., PINK, <1%PY
9549	5	11	85m	FELSIC VOLC, MOD SHEARED, PINK, 2%PY
9550	5	11	750m	FELSIC VOLC.GREY, INTENSE SHEAR, Q.VEINS
9551	71	2	418m	FELSIC VOLC, MASSIVE TO WEAK FOLIATION
9552	8	2	515m	FEL.VOLC, F.G-M.G., MASS-WEAK FOLIATION
9553	12	2	770m	SERICITIZED ROCK, CRENUATED FOLIATION
9554	32		MISTER L.	INT-FEL VOLC, MASS, F.G, PYRITE
9555	NS		MISTER L.	FELSIC VOLC, WITH CHERT FRAGS, <1%PY
9556	15	5	300m	FELSIC VOLC, MIN Q.V.,
9557	12	5	575	Q.VEINING IN WEAK.FOL. BUFF COLOR ROCK
9558	<5	5	750m	INTERM.VOLC.F.G., WEAK FOL., QTZ.FRAGS
9559	7	5	1550m	INTER.VOLC, F.G., WEAK FOL, PYRITE
9560	17	5	1828m	FLOAT-FELSIC VOLCANIC
9561	11	8	135m	Q.V.<=1m, INTERM.VOLC, CARB, QTZ STRINGS.
9562	8	8	1155m	SILICEOUS F.G.PLATY ROCK
9563	15	8	1820m	SERICITIZED, SHEARED, F.G.ROCK, PYRITE
9564	9	10	880m	INTERM.VOLC, F.G., MASSIVE, PYRITE
9565	9	12	250m	PLATY, GOSSANOUS FELSIC VOLC?, PYRITE
9566	11	12	525m	FLOAT-LOCAL, QUARTZ
9567	12	12	1615m	INTER.APHAN.VOLC, MUCH SERICITE, PYRITE
9568	11	12	1750m	SERICITIZED SHEARED , PYRITIC
9569	11	14	1255m	PHYLLITIC ROCK, SERICITE, QTZ.FRAGS

9570	13	14	1500m	INTERM.VOLC,F.G.,Q.VEINS,MAF FRAGS,PY
9571	16	14	1535m	GOSSANDUS ALTERED ROCK,AUGEN QTZ,PY
9572	<5	16	165m	INT-FELSIC VOLC.SER,QTZ.FRAGS,
9573	<5	16	2050m	FELSIC VOLC,SILICEOUS,SER,MUCH QTZ.PY
9574	<5	18	130m	FEL.VOLC,MASS.,GOSSAN,3-4ZPY,MASS-DISS
9575	5	18	490m	CHERT,MASSIVE,MUCH PYRITE
9576	8	2	3m	FELSIC TUFF,3ZPYRITE,HEMATITE
9577	17	2	118m	FLOAT-SILICEOUS
9578	9	2	162m	FELSIC VOLC.F.G.,3&MAG,PY,Q.V.,FOLDED
9579	8	2	369m	INTERM.VOLC,MASSIVE,QTZ-FELD-MICA,
9580	18	2	223m	FELSIC TUFF,F.G.,3ZPY,QTZ FRAGS<10mm
9581	5	2	657m	INTERM.VOLC,GREY/GREEN,HEM,Q.VEINING
9582	6	3	660m	FELSIC VOLC,HIGHLY SHEARED,HEM,FISSILE
9583	10	3	845m	FELSIC VOLC.,F.G.,MINDR PY,FOLIATED
9584	15	LAKESHORE		FELSIC VOLC,F.G,HEM-CARB,Q.VEINING
9585	8	SHORELINE		Q.VEIN(10-15cm)IN FELSIC TUFF
9586	11	SHORELINE		INTERM.VOLC.,LARGE QTZ.FRAGS,STRETCHED
9587	17	5	152m	FELSIC VOLC.,CHERTY,5ZPYRITE
9588	17	5	383m	INTERM.VOLC.,QTZ-HEMATITE BANDS
9589	11	5	1100m	FELSIC TUFF,QUARTZ AUGEN,
9590	8	5	1680m	FELSIC TUFF,STRET.FRAGS,QTZ-CARB,PY
9591	9	9	725m	INTERM.VOLC,Q.VEINING,3ZPYRITE
9592	16	9	1200m	FELSIC VOLC.MASSIVE,Q-C STRINGS,3ZPY
9593	22	10	560m	SILICEOUS VOLC,LIMONITE,1ZPY,Q.V+PY
9594	11	10	1350m	FELSIC VOLCANIC ?
9595	10	13	300m	INTERM.VOLC,QTZ-ANK,2ZPY
9596	12	13	662m	INTER.VOLC,F.G.WEAK FOL.,<4ZPY
9597	7	13	850m	FELSIC VOLC,MASSIVE,LIMONITE,PY
9598	9	15	800m	INTERM.TUFF,QTZ.FRAGS,<2ZPY
9599	<5	16	195m	INTERM.TUFF,SER,M.G.,5ZPY,
9600	<5	16	1265m	FLOAT-FELSIC VOLCANIC
9601	<5	15	315m	FLOAT-MAFIC VOLC?,F.G.,GOSSAN,PY-CPY
9602	<5	15	860m	FLOAT-QUARTZ
9603	<5	3A	1600m	APHANITIC FELSITE,PYRITE
9604	7	3A	1725m	FELSIC VOLC,SHEARED,F.G,SER-HEM-LIM-PY
9605	33	3A	2165	FELSIC TUFF,F.G-M.G,SER,Q.V.WITH PY
9607	16	18	320m	K-SPAR PORPH,GOSSAN,PYRITE
9608	16	18	770m	INTERM.VOLC,M.G.,MASSIVE,PY
9609	8	20	225m	FELSIC VOLC,SHEARED,SER,Q.VEINS,PY
9610	<5	20	590m	INT.VOLC,MASS,F.G.,Q.V.,PYRITE
9611	<5	21	410m	FEL.VOLC,SHEARED-SER-CARB-F.G,2mQ.V.
9612	<5	24	380m	FELSIC VOLC,SHEAR-SER-F.G,1mQ.V.STOCK.
9613	12	24	400m	FLOAT-QUARTZ
9614	26			VOLCANIC BRECCIA,FRAG <=25cm,CHL,Q.V.
9615	18			ARKOSIC SED,MASS,WELL SORT,Q.V.,PY
9616	6			SED,VERY FISSILE,CHERT BNDS,MUCH PY
9617	10	28	600m	FEL.TUFF/SED.F-M.G.,LIMON,MAGNETITE
9618	9	28	775m	INTERM.VOLC,MASS,F.G.,PYRITE
9619	<5	29	875m	FELSIC TUFF,SHEAR-F.G.,SER,PYRITE
9620	<5	31	120m	FELDS.PORPH,WEAK FOL.,F.G.PYRITE
9621	<5	31	480m	FEL.VOLC,SHEAR-SER,F.G.,1m Q.V.,PY
9622	6	31	540m	INT.VOLC.INTENSE Q.V.STOCK,POTAS.ALTR.

9623	19	31	1520m	FELSIC VOLC.MASS,F.G.,1-7ZPY
9624	13	33	700m	FEL.VOLC,SHEAR,SER,F-M.G.,PYRITE
9625	15	33	785m	QUARTZITIC-WACKE,F.G.,CARB-VEINS,MAG.
9626	<5	13	375m	FEL.ROCK,APH,WEAK FOL.,2ZPY,
9627	5	13	2600m	FEL-PYROCLASTIC,<=5cm,BNDE MATR.,PY
9628	7	13	2600m	AS 9627:10-15ZPY,GOSSAN
9629	31	3A	1010m	FELSIC,WHITE,APH,1cmQ.V.,LIMON,PY
9630	<5	3A	1610m	MAFIC VOLC,Q.VEINLETS,<1ZPY
9631	<5	3A	2150m	FELSIC,PINK,MOD.SHEAR.,Q.V.,QTZ=10%
9632	<5	3A	2175m	FELSIC,APHAN,WEAK FOL.,2ZPY,
9633	6	3A	2250m	FLOAT-QUARTZ
9634	<5	17	400m	F.G.MAFIC VOLC.,Q.V.
9635	<5	17	1441m	FELSIC VOLC.MASSIVE,MINOR PYRITE
9636	<5	19	370m	FELSIC VOLC,INTEN.SHEAR.,
9637	<5	19	1685m	FELSIC VOLC,INT.SHEAR,Q.V.,PY,OLD TREN
9638	<5	19	1700m	SAMPLE OF QTZ FROM TRENCH AT #9637
9639	<5	19	1700m	SAMPLE OF FISSILE WALL AT #9637
9640	14	21	300m	FELSIC VOLC,MOD.SHEAR.,Q.V.,1ZPY
9641	<5	21	300m	FEL.VOLC?,1.5mQ.V.,LIMON,
9642	7	21	475m	SAME AS 9611JS:FROM TRENCH 30m SE
9643	<5	21	1450m	FELSIC VOLC,F.G.,CHERTY BNDS,Q.V.,PY.
9644	<5	23	320m	FELSIC VOLC,Q.V.,CARBONATE
9645	<5	13	2600m	40m S OF 9627/28JS:PYROCL.WITH PY.
9646	<5	SHORELINE		MAFIC VOLC,CHLORITIZED,Q-C VEINS
9647	<5	SHORELINE		PLATY ROCK ,F.G.,REB/BLACK BNDS,MAG.
9648	8	SHORELINE		FELSIC ROCK,PLATY,GREY,RED BNDS,2ZPY
9649	<5	28	1030m	SILICEOUS,FEL? ROCK,APH,CHERTY ZONES
9650	<5	28	1805m	FELSIC,INTEN.SHEARED,PYRITE
9651	<5	18	1085m	INTERM. VOLC,F-M.G.,PYRITE
9652	<5	18	1165m	FLOAT-CONGLOMERATE
9653	<5	19	375m	HIGH.ALTER/SCHISTOSE,GOSSAN,QTZ FRAGS.
9654	<5	19	1906m	FLOAT-QUARTZ
9655	150	22	250m	QUARTZ-VEINED OUTCROP,PY-ASPY?,SER.
9656	6	24	350m	INTERM.VOLC/Q.V.STOCK.
9657	<5	25	90m	INTER.VOLC.,ELONGATE MAP/QTZ INCLU.
9658	9	25	285m	SILICEOUS ROCK/PERVASIVE FE-STAIN
9659	16	25	1290m	FLOAT-QUARTZ
9660	<5	SHORELINE		INT.VOLC.,MASS,F.G.,VEINLETS OF PY
9661	11	27	100m	SILICEOUS,SHEARED,SERICITIZED OUTCROP
9662	6	27	335m	FELDSPAR PORPH,MASSIVE
9663	<5	27	1250m	FLOAT-ANGULAR QUARTZ
9664	<5	27	2013m	SHEARED/SERICITIZED/SILICEOUS/PY
9665	<5	30	865m	Q.VEINS <15cm,PY,INF.G.FOLIATED ROCK
9666	<5	31	200m	FELSIC VOLCANIC,SHEARED/SERICITIZED,PY
9667	21	31	1520m	FELSIC VOLC.,MASS-WEAK.FOL.,PY-CPY?
9668	11	31	1650m	CHERT,GREY,PYRITE
9669	19	31	1575m	VOLC.BRECCIA,MASS,FRAGS<10cm,CHERT.RHY
9670	16	30A	1475m	INT.VOLC.,MASS,M.G,CHERT FRAGS,PY BNDS
9671	16	32	140m	OLD TRENCH-SER.WALL,CHL.QTZ,PY-MAG
9672	14	33	200m	FELSIC VOLC,PYRITE
9673	10	35	375m	CHLORITIZED INTERM. WITH Q.V.
9674	54	36	375m	INTERM.VOLC,MASS-WEAK.FOL,FEL.FRAGS,

9675	42	36	475m	CHLORITIZED WALL, QU<1m,
9676	6	17	670m	FELSIC VOLC, Q.V.<15cm
9677a	<5	17	1540m	FELSIC VOLC, Q.V.<70cm,
9677b	18	20	1835m	FELSIC TUFF, SILICEOUS/SERICITIC/5ZPY
9678	<5	23	85m	FEL.VOLC.HIGHLY SHEARED, HEM-LIM-BNDS
9679	<5	23	450m	FLOAT-IN OLD TRENCH QUARTZ
9680	60	25	30m	MASS.VOLC, QTZ FRAGS, FELDS, F.G.MATRIX
9681	12	25	400m	INTERM.VOLC.10ZANKERITE, MINOR SERICITE
9682	<5	25	1286m	FLOAT-QUARTZ/ANKERITE
9683	<5	27	148m	INTERM.VOLC.2mm QTZ FRAGS., 1ZPYRITE
9684	<5	27	1200m	MASS.FEL.VOLC, 2ZPYRITE, CARB
9685	9	27	1796m	ON MANITOU STRETCH: GOSSAN/CRUMPLED
9686	<5	30	225m	INTERM.VOLC, 4ZPY, 5ZCALCITE
9687	6	30	1150m	FEL-INT.CONTACT ZONE, Q.V.15cm, CHL
9688	6	42	284m	FELSIC TUFF, SIL., MINOR SER, LIM-HEM
9689	20		SHORELINE	MAFIC VOLC, Q.V., CHL, RUSTY
9690	12		SHORELINE	FELSIC TUFF, HIGHLY SIL., 2ZPYRITE
9691	15		SHORELINE	INTERM.VOLC. QTZ-FELD-CARB, MINOR PY
9692	13		SHORELINE	MAFIC VOLC., V.F.G., 1ZPY
9693	7	36A	230m	<20cm Q.V., HOST MASSIVE, RUSTY
9694	11	36A	425m	FELSIC VOLC, SILICEOUS, RUSTY
9695	8	36A	660m	FELSIC VOLC, SILICEOUS, RUSTY
9696	13	36A	MAP	FLOAT-ANGULAR QUARTZ
9697	11	31A	200m	FLOAT-GOSSANOUS VOLCANIC
9698	8	44	1675m	FELSIC VOLC., SILICEOUS, LIM-HEM, MIN.PY
9699	13	18A	290m	INTERM.VOLC, PARTLY SILICIFIED, PY
9700	13	18A	380m	FELSIC VOLC, GOSSANOUS, 10ZPYRITE

TRAVERSE #1
 1:10,000
 JUNE 12th/83
 J. SCOUTEN ; S. JOHNSTON

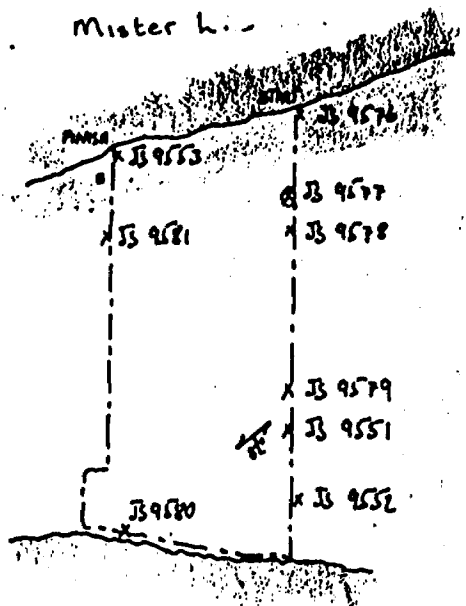


- TRAVERSE ROUTE
- - - - - CLAIM LINE
- ||||| ESCARPMENT
- x SAMPLE LOCATION
- o SAMPLE OF ROOF
- J3956 SAMPLE NO.
- LIMIT OF SHEARING
- AREA OF SHEARING

TRAVERSE #2
 1:10,000
 JUNE 12th/83
 R. NIXON ; D. SCOUTEN

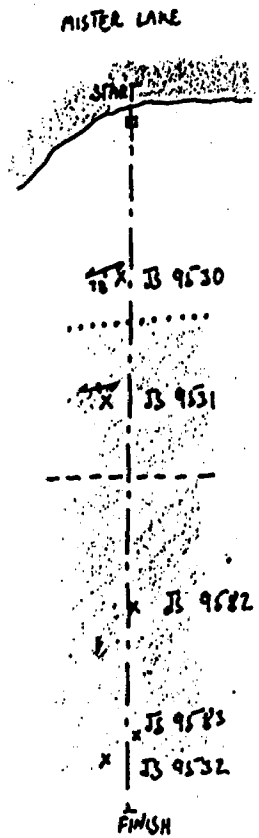


Mister L. -

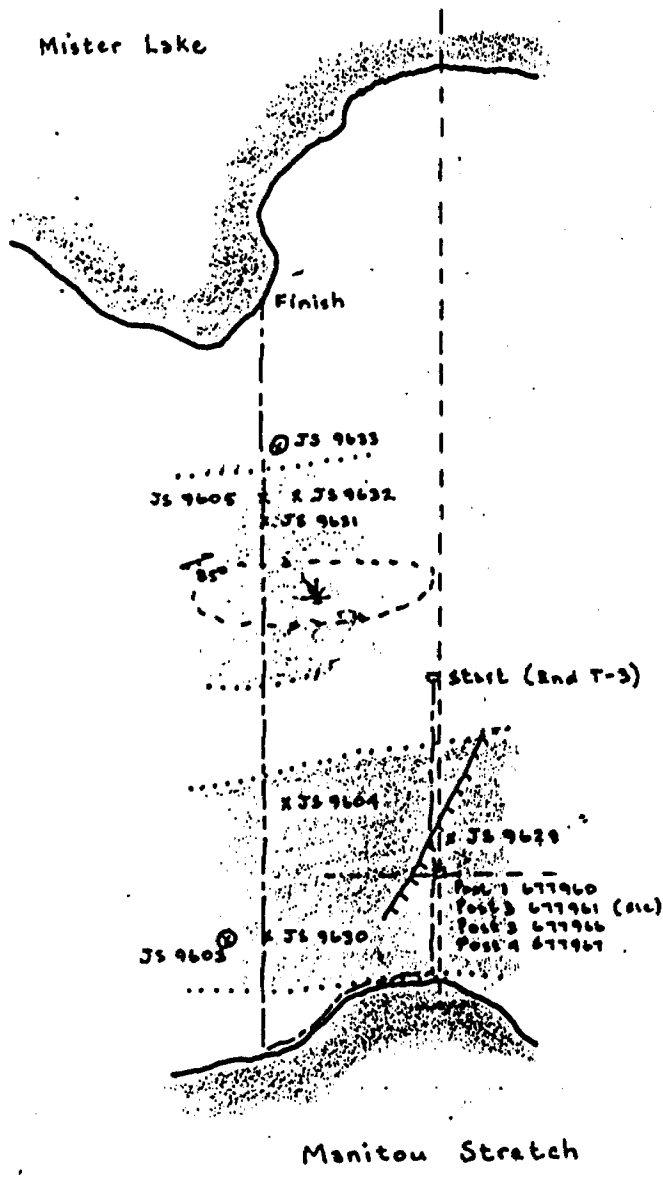


- - - - - TRAVERSE ROUTE
 x SAMPLE LOCATION
 JS 9576 SAMPLE NO.
 o Float
 [shaded area] Area of shearing

TRAVERSE #3
 1:10,000
 JUNE 13TH/83
 J. SCOUTEN, R. NIXON



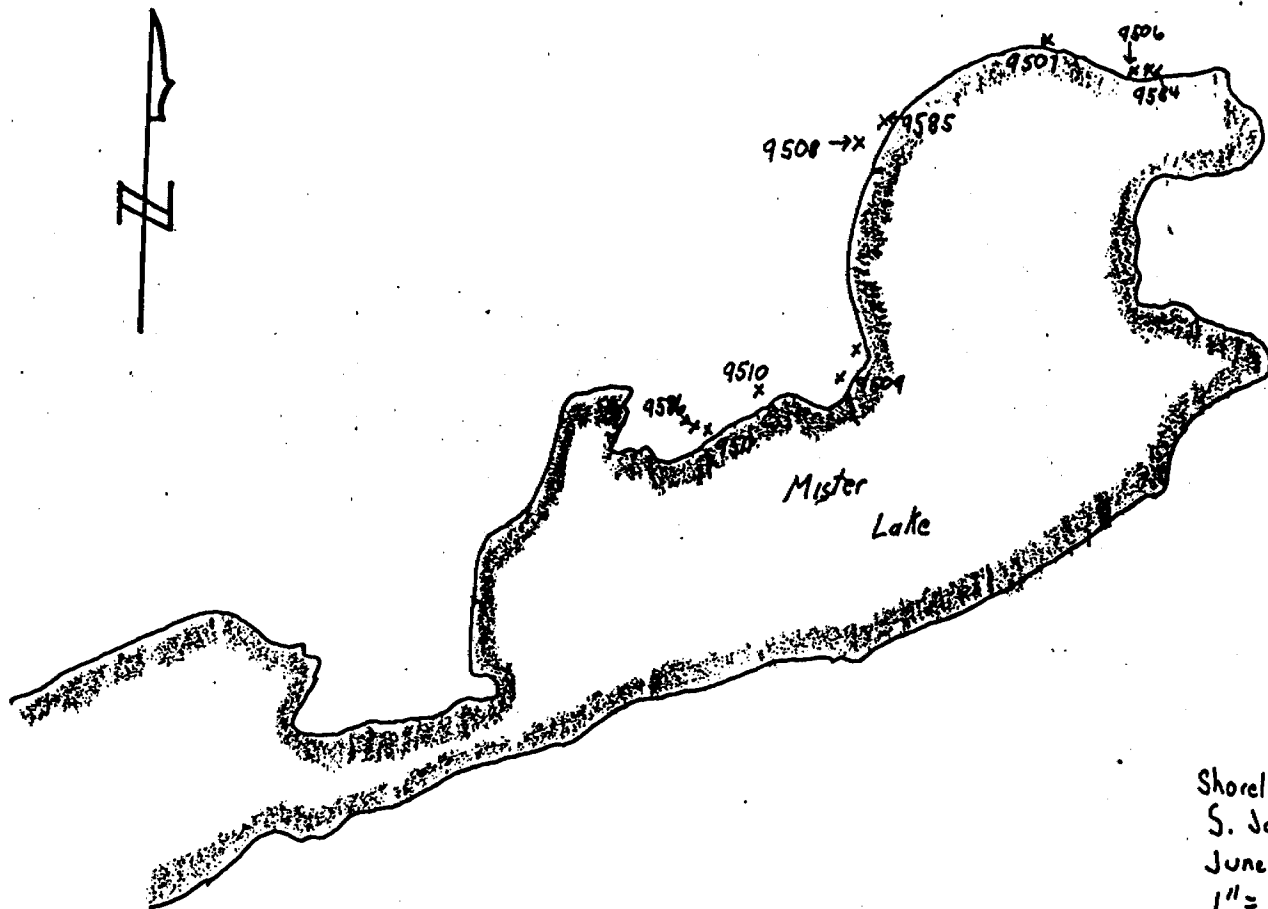
---	TRAVEL ROUTE
----	CLAM LINE
□	CLAM POST
x	SAMPLE LOCATION
JS 9530	SAMPLE NO.
.....	LIMIT OR SHEARING
.....	AREA OF SHEARING



TRAVERSE 3A

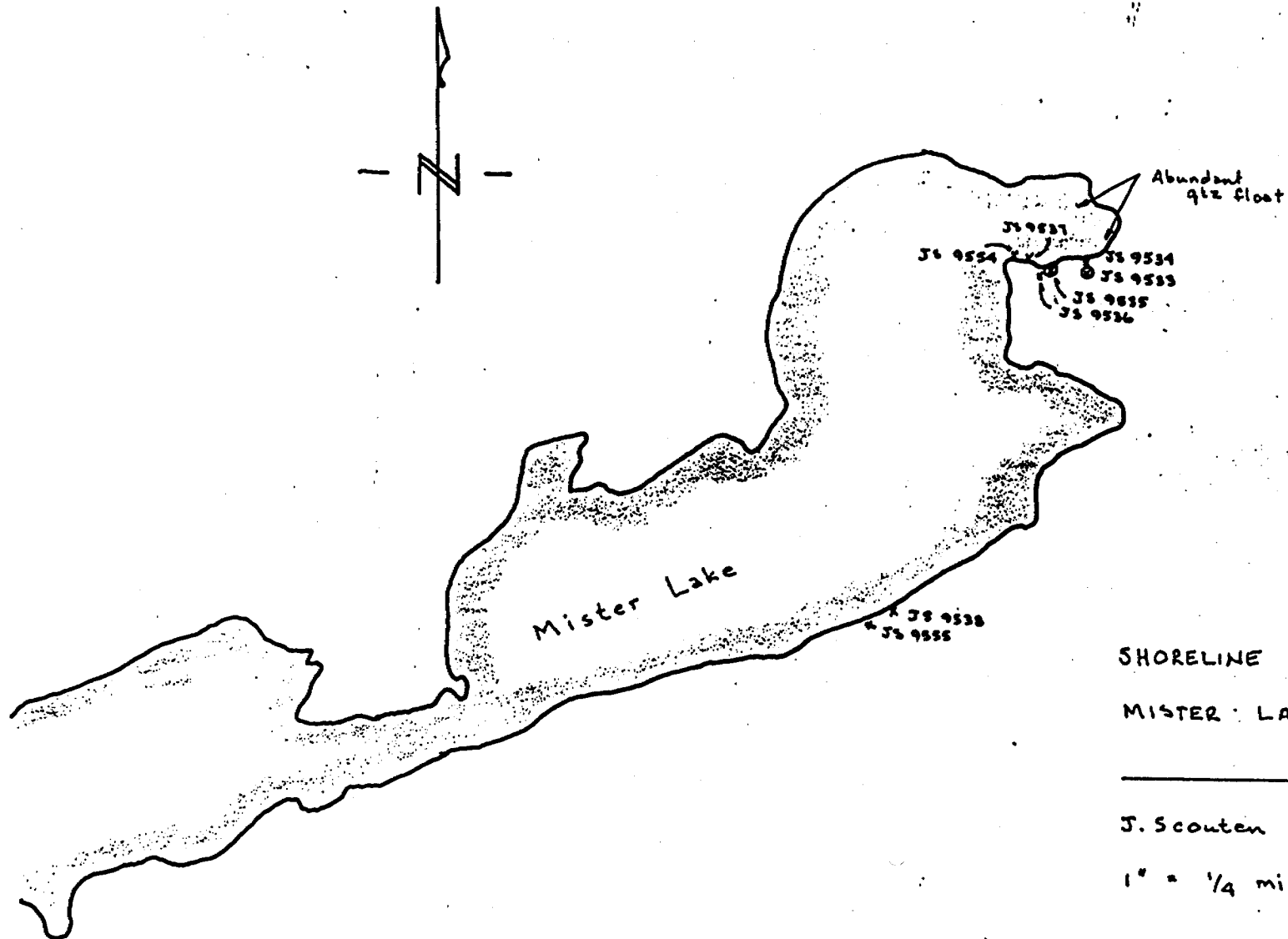
J. Scouten, S. Johnston
 June 22, 1983
 1:10,000

- Traverse Route
- x JS 9629 Rock sample location; number
- o Float
- Claim post
- - - - - Claim line
- //// Escarpment
- Extent of shearing
- Area of shearing



Shoreline Prospecting
S. Johnston & R. Nixon
June 15, 1983
1" = 1/4 mile

x 9511 Sample location; Number



SHORELINE PROSPECTING
MISTER LAKE (JUNE 15, 1983)

J. Scouten ; D. Scouten

1" = 1/4 mi

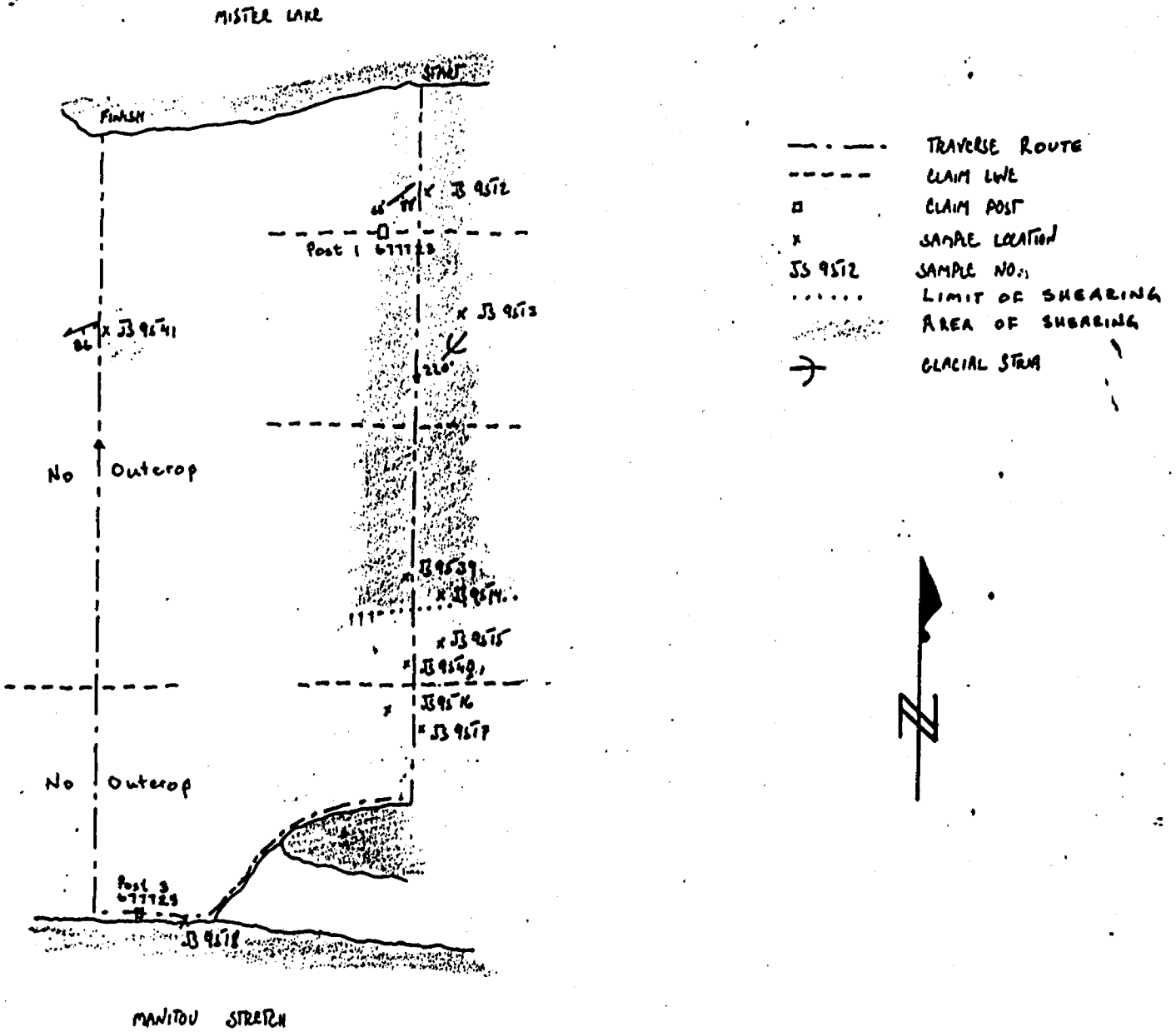
x JS 9535 Rock sample location;
number
o Float

TRAVERSE #4

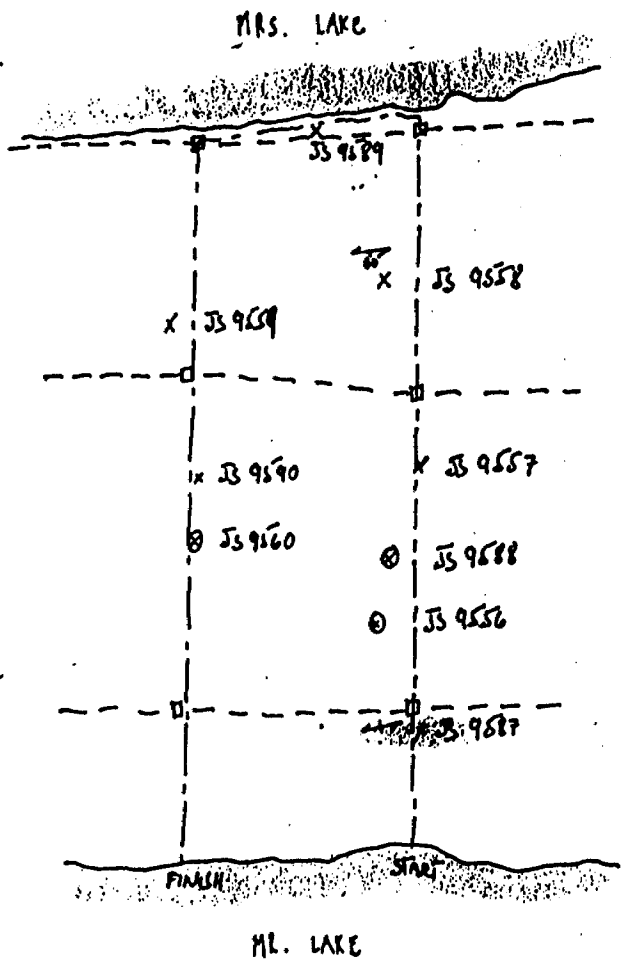
1:10,000

JUNE 16 / 83

J. SCOUTEN ; S. JOHNSTON



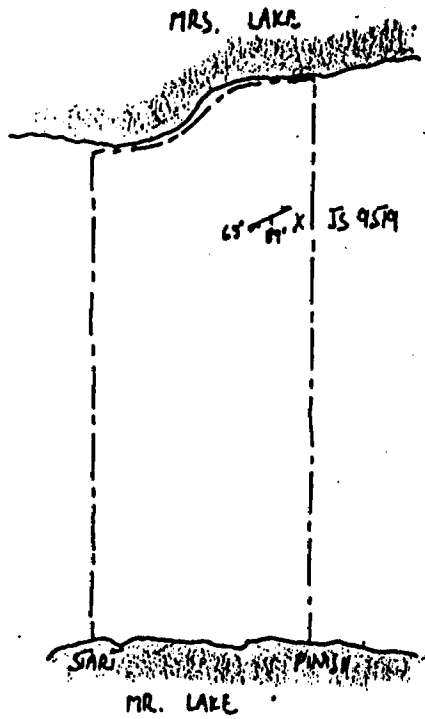
TRAVERSE #6
 1:10,000
 JUNE 16/83
 D. SCOUTEN, R. HIXON



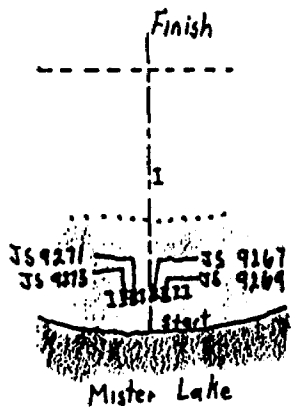
- TRAVERSE ROUTE
- CLAIM LINE
- CLAIM POST
- x SAMPLE LOCATION
- ⊙ SAMPLE OF FLOAT
- JS 9557 SAMPLE NUMBER
- Area of shearing



TRAVERSE #6
1:10,000
JUNE 17/83
S. JOHNSTON, D. SCOUTEN



----- TRAVERSE
X SAMPLE LOCATION
33 9519 SAMPLE NUMBER



Traverse 6a.

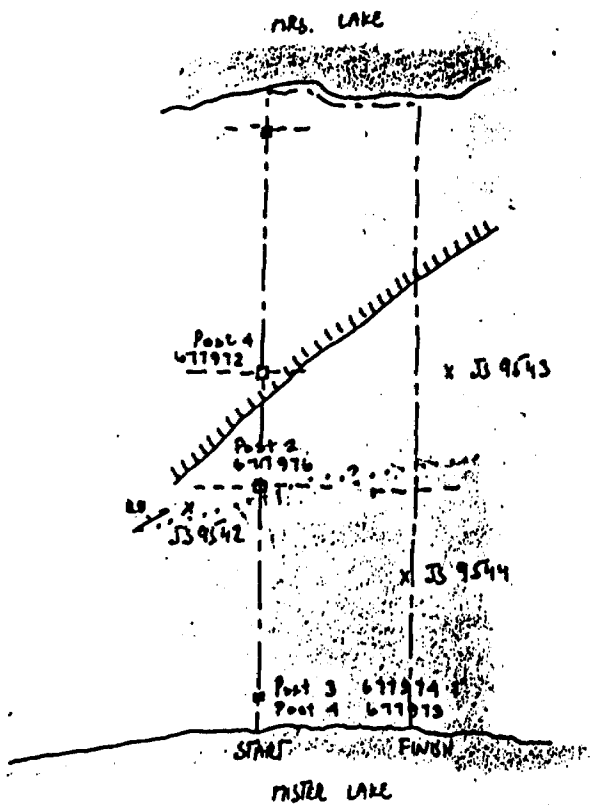
J. Scouten

July 21, 1983

1: 10,000

- Traverse Route
- Claim Line
- x 35 9273 Sample Location; Number
- Area of Shearing
- I Trench Location

TRAVERSE # 7
 1:10,000
 JUNE 17/83
 J. SCOUTEN ; R. NIXON



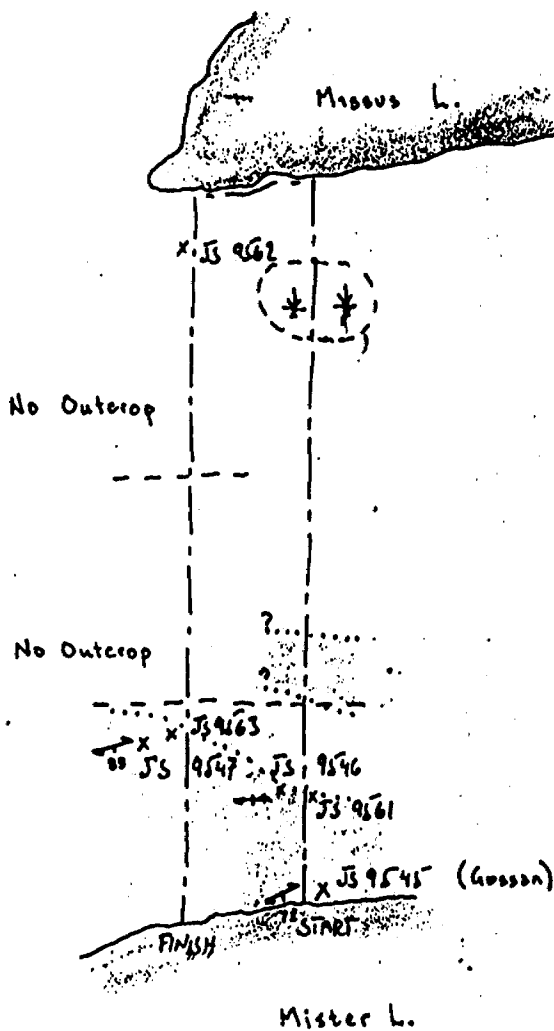
- TRAVERSE
- CLAIM LINE
- CLAIM POST
- ||||| ESCARPMENT
- x SAMPLE LOCATION
- JS 9543 SAMPLE NUMBER
- LIMIT OF SHEARING
- Area of Shearing

TRAVERSE NO. 8

1:10,000

JUNE 18/83

J. SCOUTEN, D. SCOUTEN

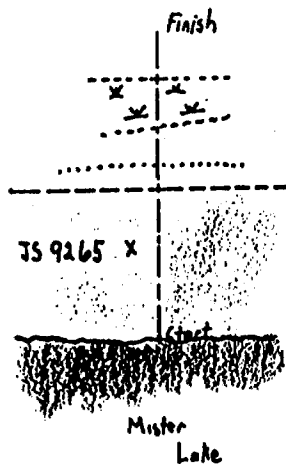


- TRAVERSE ROUTE
- CLAIM LINE
- X SAMPLE LOCATION
- JS 9547 SAMPLE NO.
- LIMIT OF SHEARING
- AREA OF SHEARING



Traverse 8a

R. Nason ; J. Scouten
July 21, 1983
1:10,000

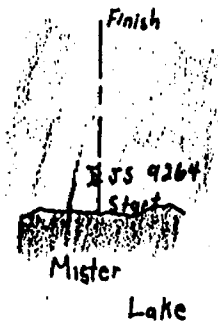


- Traverse Route
- x359265 Sample location; Number
- Claim Line
- x x x Swamp
- Area of Shearing



Traverse 8b

R. Nixon
July 21, 1983
1:10,000



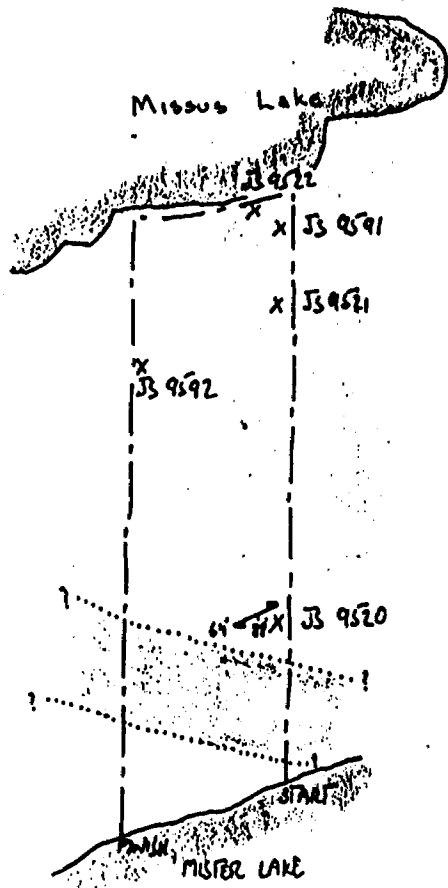
-----	Traverse Route
x JS 9264	Sample Location
~~~~~	Area of Shearing
I	Trench Location

TRAVERSE * 9

1:10,000

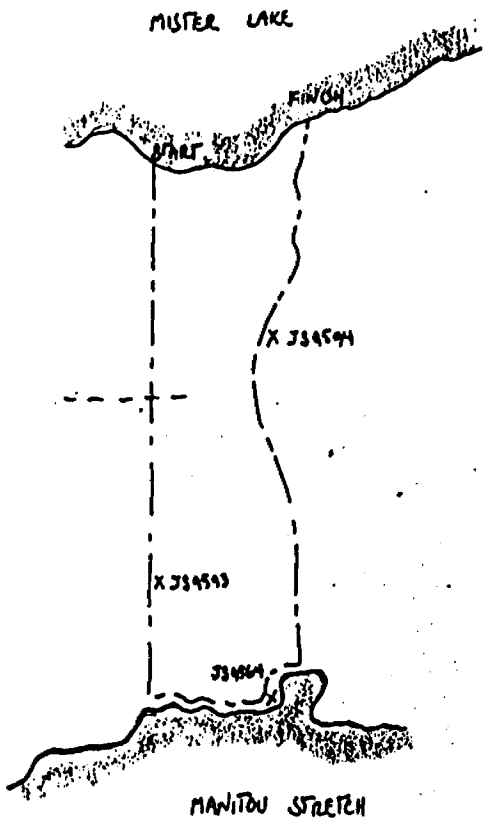
JUNE 18/83

S. JOHNSTON, R. NIXON



----- TRAVERSE  
x SAMPLE LOCATION  
JS 9521 SAMPLE NO:  
?..... LIMIT OF SHEARING  
AREA OF SHEARING

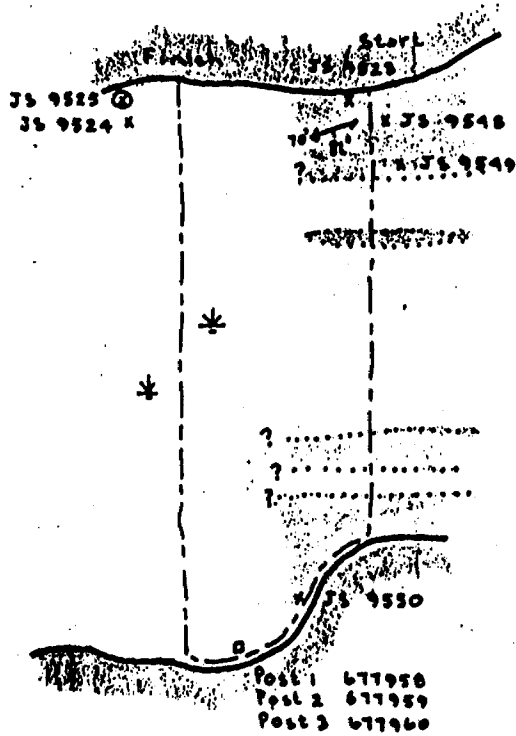
TRAVERSE #10  
1:10,000  
JUNE 19/83  
D. SCOUTEN, R. NIXON



----- TRAVERSE  
----- CLAIM LINE  
X SAMPLE LOCATION  
JS 9593 SAMPLE NO.



Mrster Lake



TRAVERSE II  
 J. Scowlen; S. Johnston  
 June 19, 1983  
 1:10,000

Manitou Stretch

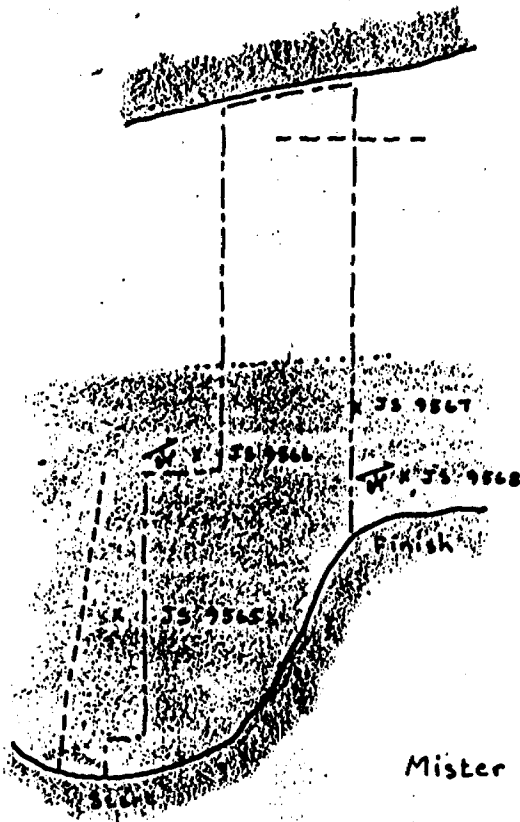
- Traverse Route
- Claim Post
- x JS 9550 Rock sample location; number
- ⊙ Float
- ..... Limit of Shearing
- ▨ Area of Shearing
- * Swamp



Missus Lake

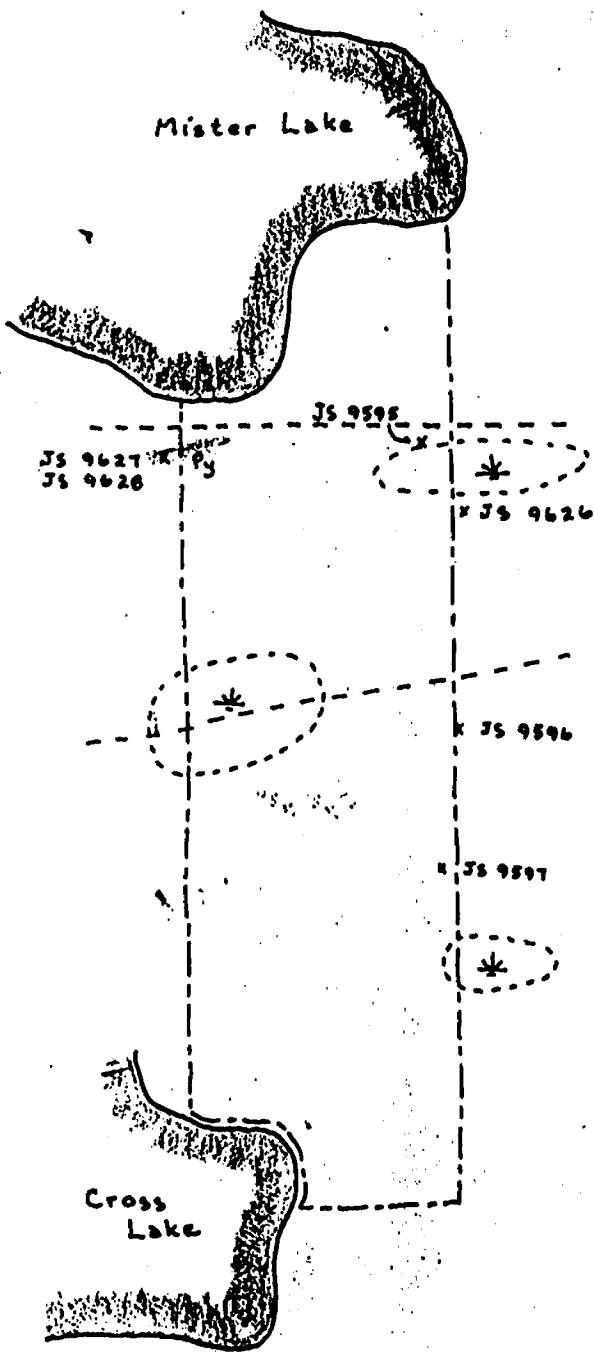
TRAVERSE 12

S. Johnston, D. Scouten  
June 20, 1983  
1 : 10,000



- Traverse Route
- - - - Claim Line
- x JS 9568 Rock sample location;  
number
- ..... Limit of shearing
- Area of shearing

Mister Lake



TRAVERSE 13

J. Scouten ; R. Nixon  
 June 20, 1983  
 1:10,000

- Traverse Route
- Claim Line
- * JS 9595 Rock sample location;  
number
- * Area of Shearing
- * Swamp.
- Py Pyrite



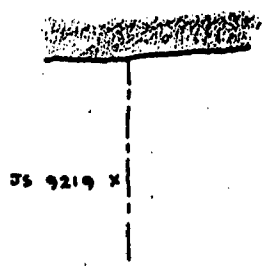


TRAVERSE 13 A

J. Scouten, R. Nixon  
July 19, 1983  
1:10,000

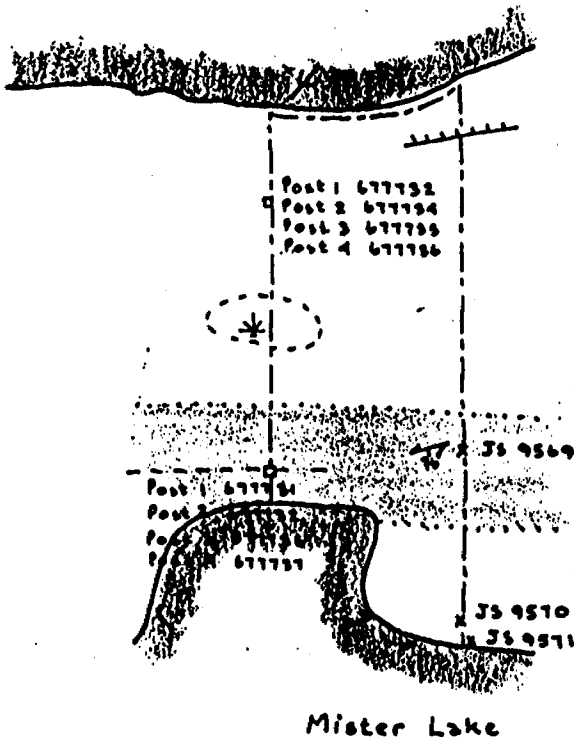
--- Traverse Route.  
x JS 9219 Rock sample location;  
number.

Mister Lake





Missus Lake



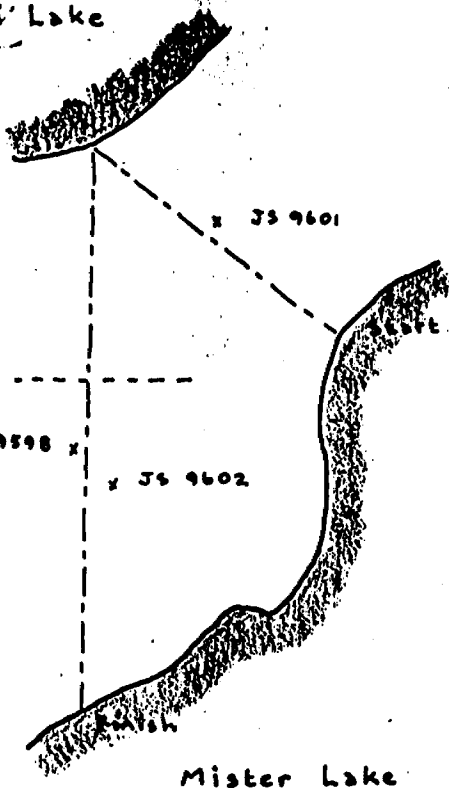
TRAVERSE 14

J. Scouten; D. Scouten  
June 21, 1983  
1:10,000

- Traverse Route
- Claim Post
- ||||| Escarpment
- ↖ Direction of Glacial Movement
- ..... Limit of shearing
- Area of shearing
- Claim Line



Missus Lake

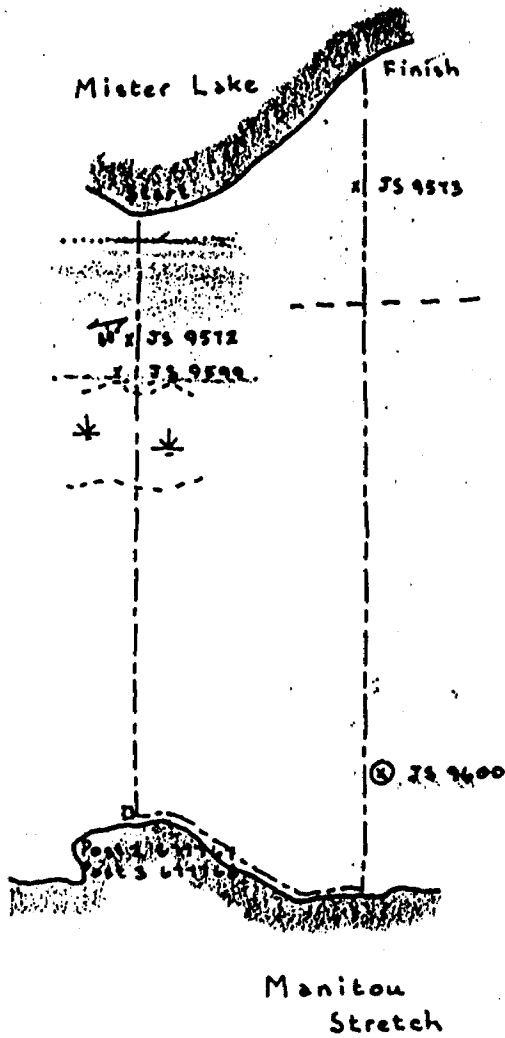


TRAVERSE 15

S. Johnston ; R. Nixon  
June 21, 1983  
1:10,000

- Traverse Route
- x JS 9601 Rock sample location, number
- Claim line

Mister Lake



TRAVERSE 16

D. Scouten ; R. Nixon  
June 22, 1983  
1:10,000

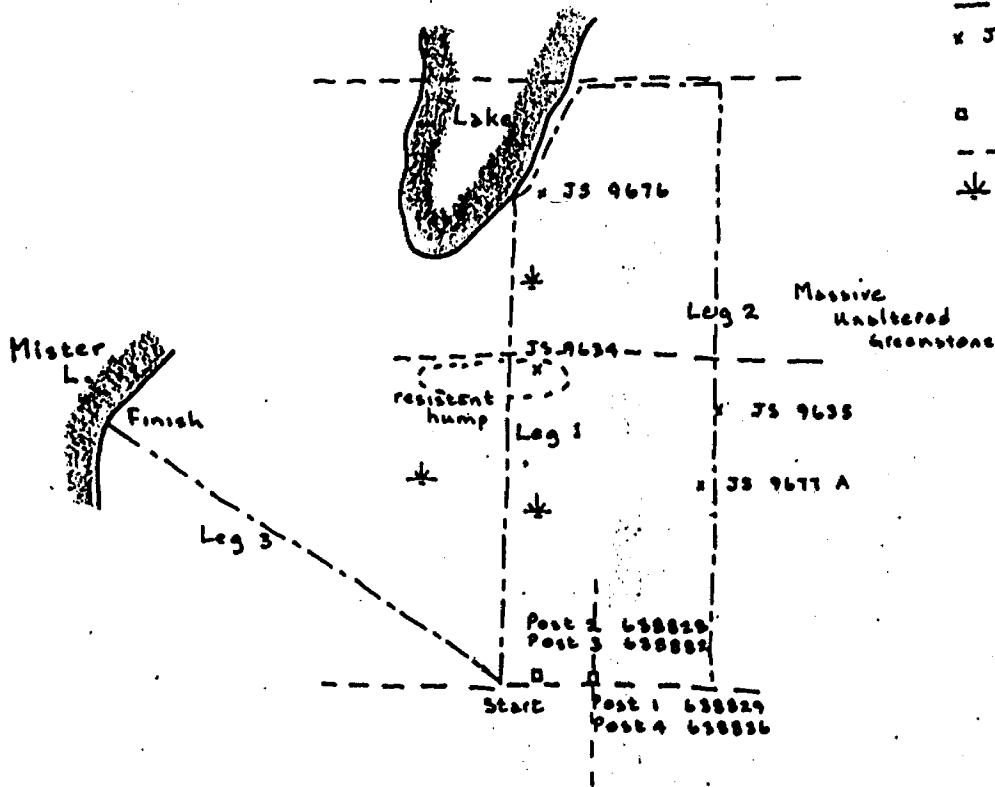
- Traverse Route
- x JS 9600 Rock sample location, number
- ⊙ Float
- Claim post
- - - - - Claim line
- * Swamp
- Area of Shading

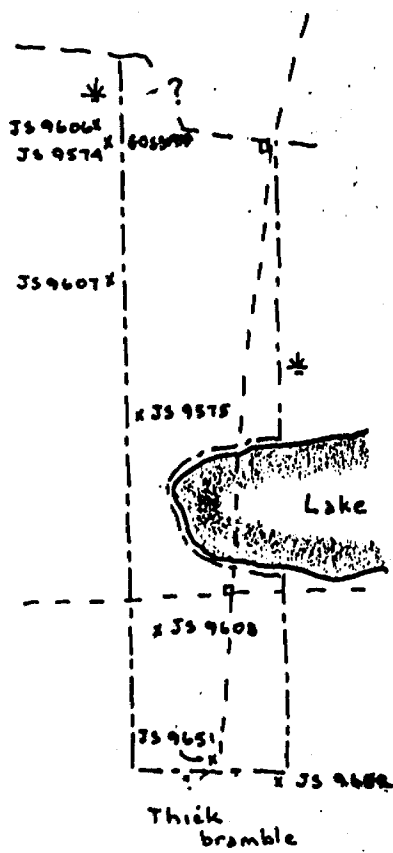


TRAVERSE 17

R. Nixon, J. Scouten  
June 23, 1983  
1:10,000

- Traverse Route
- x JS 9658 Rock sample location, number
- Claim post
- - - Claim line
- * Swamp





TRAVERSE 10

D. Scouten ; S. Johnston  
June 23, 1983  
1:10,000

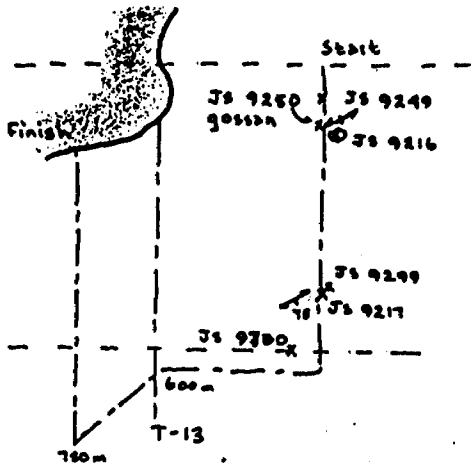
- Traverse route
- x JS 9575 Rock sample location;  
number
- Claim post
- - - - Claim line
- * Swamp



TRAVERSE 18A

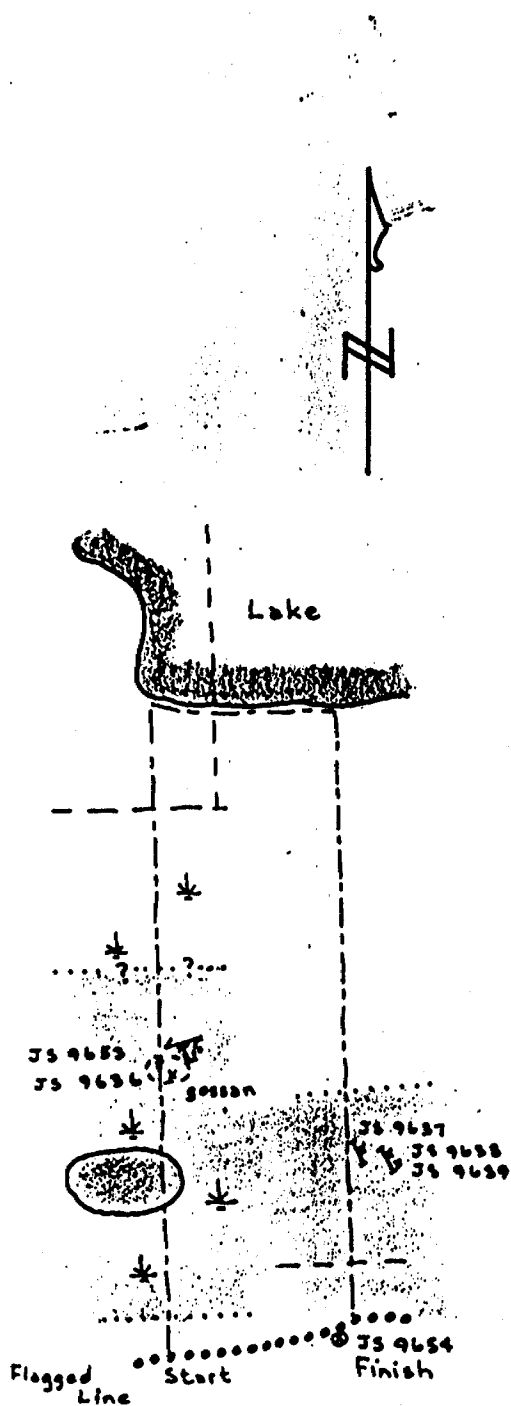
J. Scouten, R. Nixon  
July 19, 1983  
1:10,000

Mister Lake



- Traverse route
- x JS 9217 Rock sample location number
- ⊗ Float
- Claim line

un

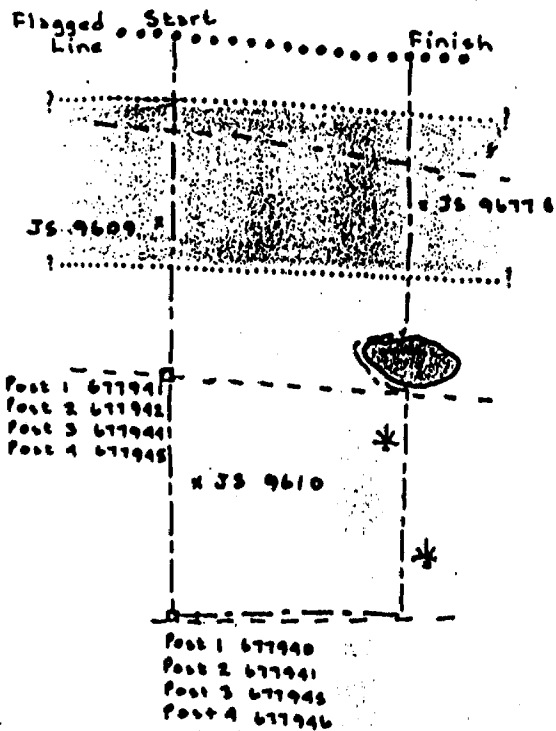


TRAVERSE 19

J. Scouten ; D. Scouten  
 June 24 , 1983  
 1 : 10,000

- Traverse route
- x JS 9637 Rock sample location ; number
- Claim line
- ..... Limit of shearing
- ..... Area of shearing
- ↓ Trench
- ⊙ Float
- * Swamp





TRAVERSE 20

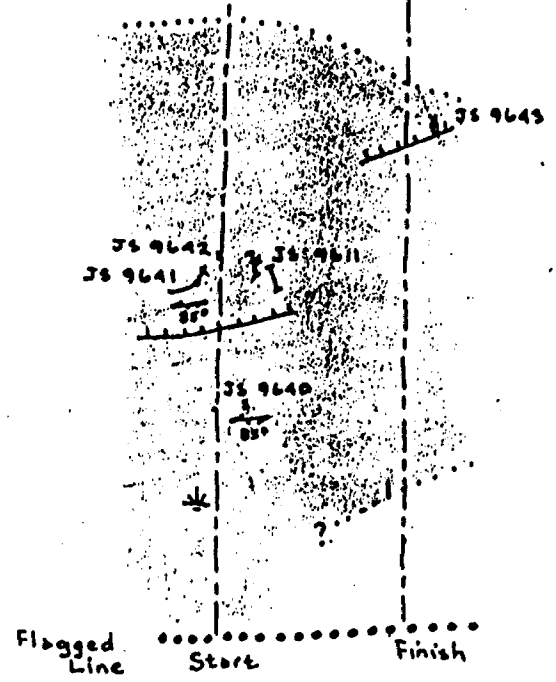
R. Nixon ; S. Johnston  
June 24, 1983  
1 : 10,000

- Traverse route
- x JS 9609 Rock sample location;  
number
- - - - - Claim line
- * Swamp
- ..... LIMIT OF SHEARING
- /////// AREA OF SHEARING

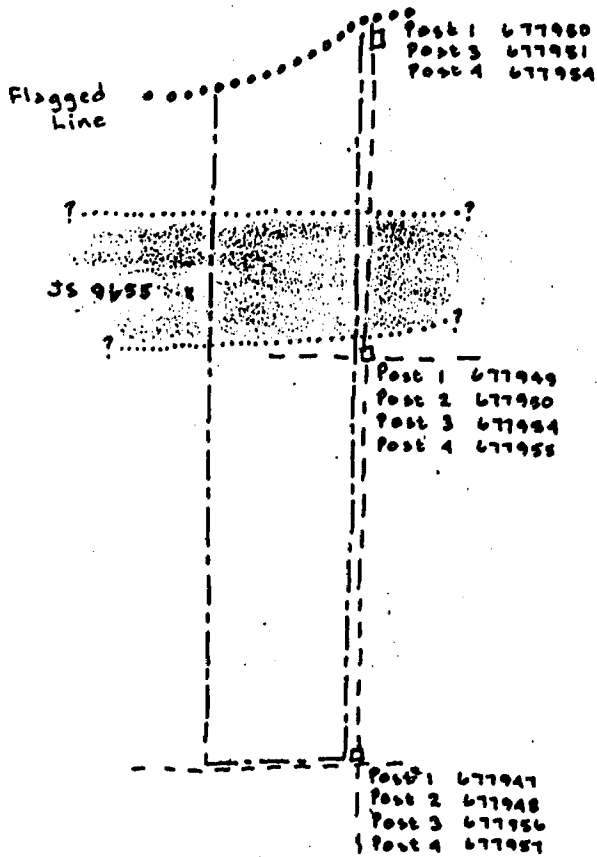


TRAVERSE . 21

J. Scouten ; S. Johnston  
 June 25 , 1983  
 1 : 10,000



- Traverse route
- x JS 9643 Rock sample location ; number
- ||||| Escarpment
- ..... Limit of shearing
- Area of shearing
- - - - - claim line
- T Trench
- S Swamp



TRAVERSE 22

D. Scouten, R. Nixon  
June 26, 1983  
1:10,000

- Traverse route
- x JS 9655 Rock sample location, number
- Claim post
- - - Claim line
- ?..... Limit of showing
- ~~.....~~ Area of showing

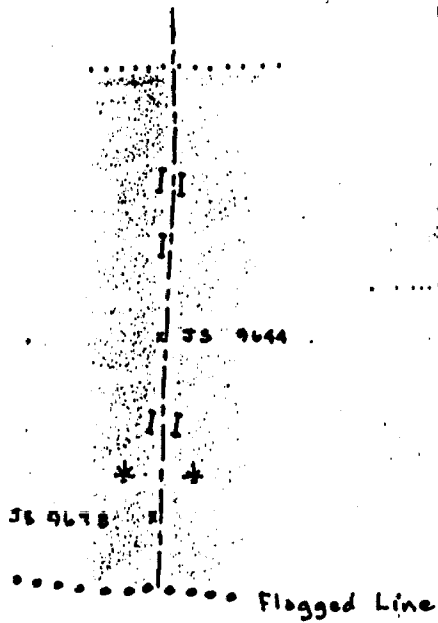


TRAVERSE 23

J. Scouten; R. Nixon

June 26, 1983

1:10,000



-----  
35 9644

Traverse Route  
Rock sample location;  
number

.....

Limit of Shearing

.....

Area of Shearing

I

Trench

*

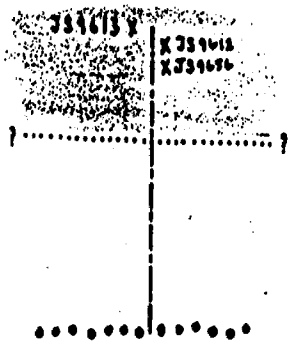
Swamp

Flagged Line



Traverse 24

D. Scouton, S. Johnston  
June 26, 1965  
1:10,000



----- Traverse Route  
x JS9656 Rock sample location; number  
..... LIMIT OF SHEARING  
[stippled area] AREA OF SHEARING

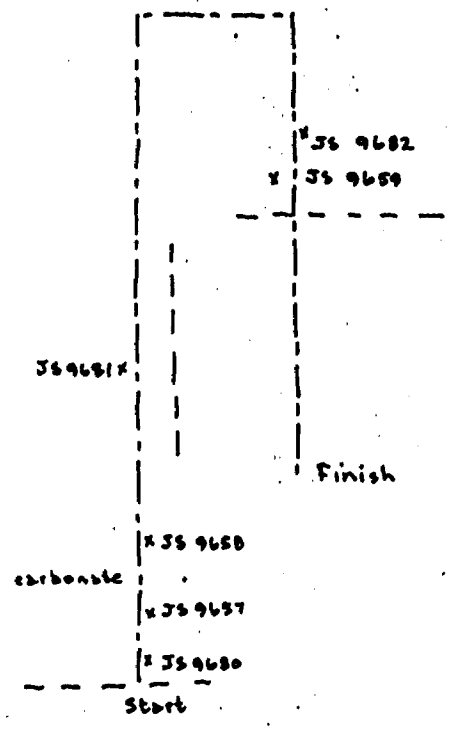


TRAVERSE 25

R. Nixon ; D. Scouten  
June 29 , 1983

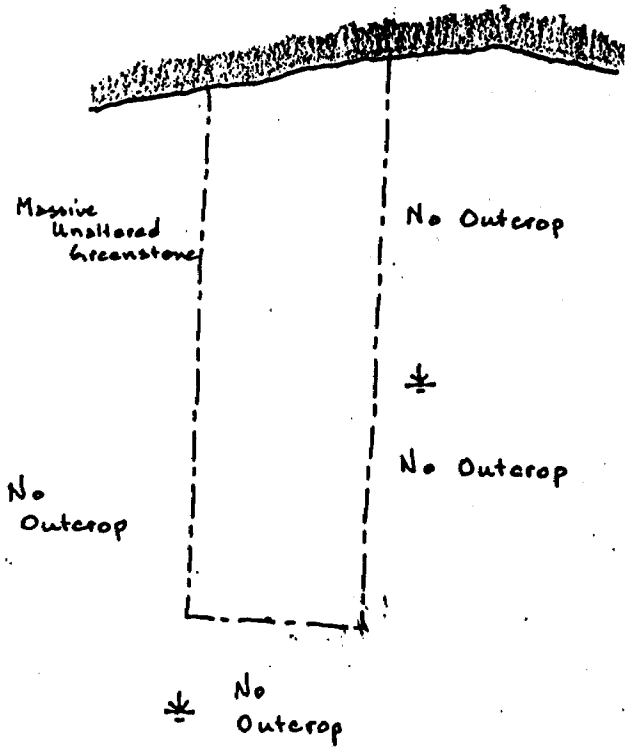
- Traverse route
- x JS 9682 Rock sample location ; number
- Claim line

1 : 10,000





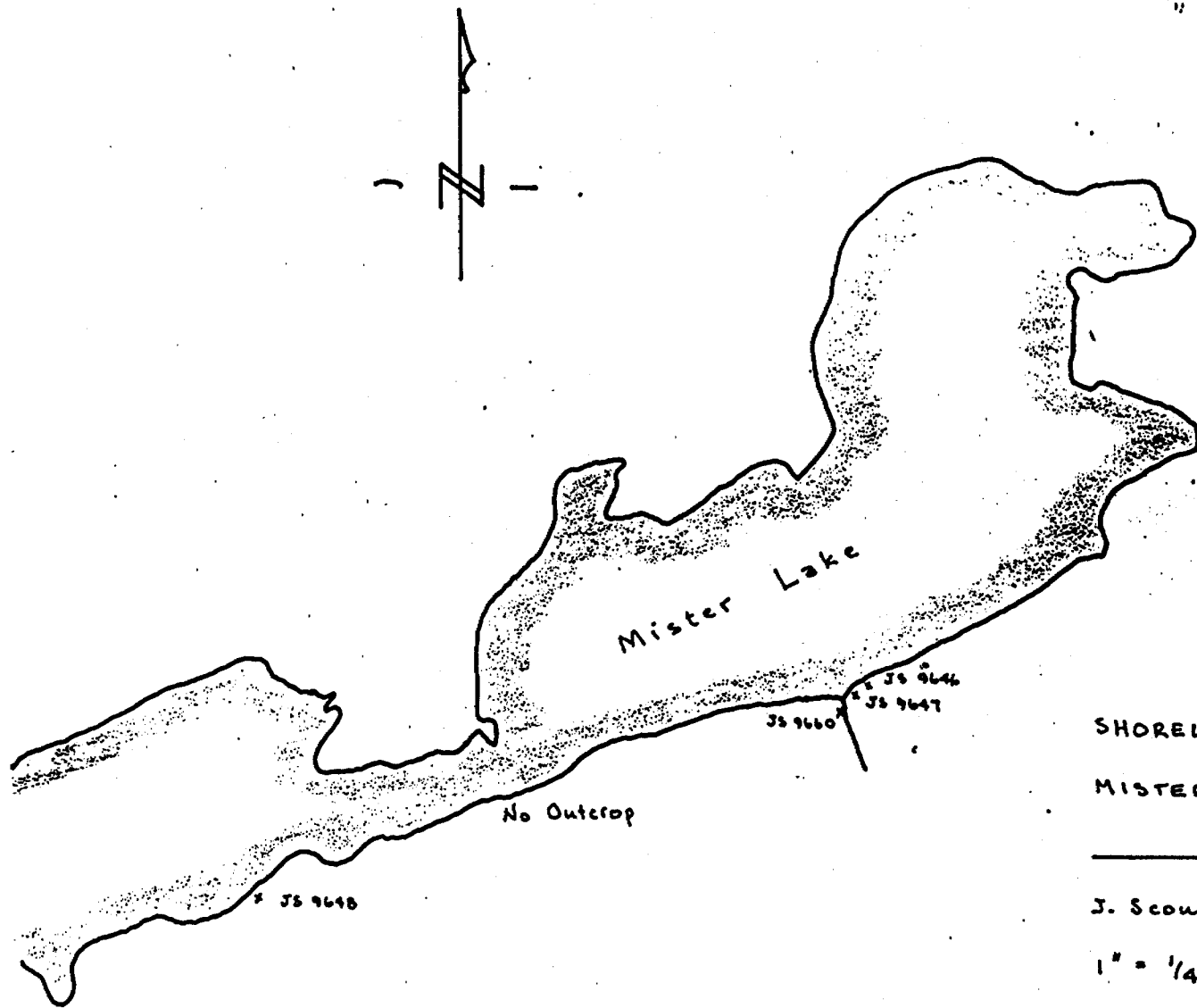
Mister Lake



TRAVERSE 26

J. Scouten  
June 29, 1983  
1:10,000

--- Traverse route  
⊕ Swamp.



SHORELINE PROSPECTING  
MISTER LAKE (JULY 1, 1983)

---

J. Scouten ; D. Scouten

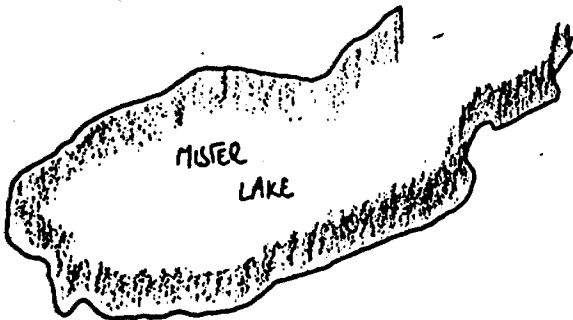
1" = 1/4 mi

x JS 9647

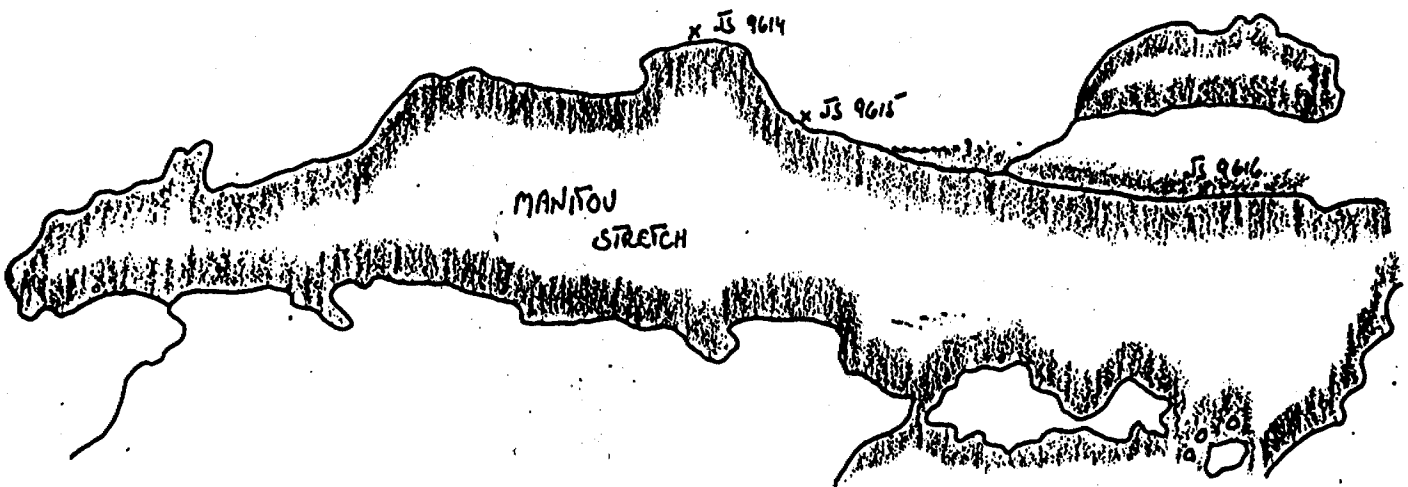
Rock sample location ;  
number.



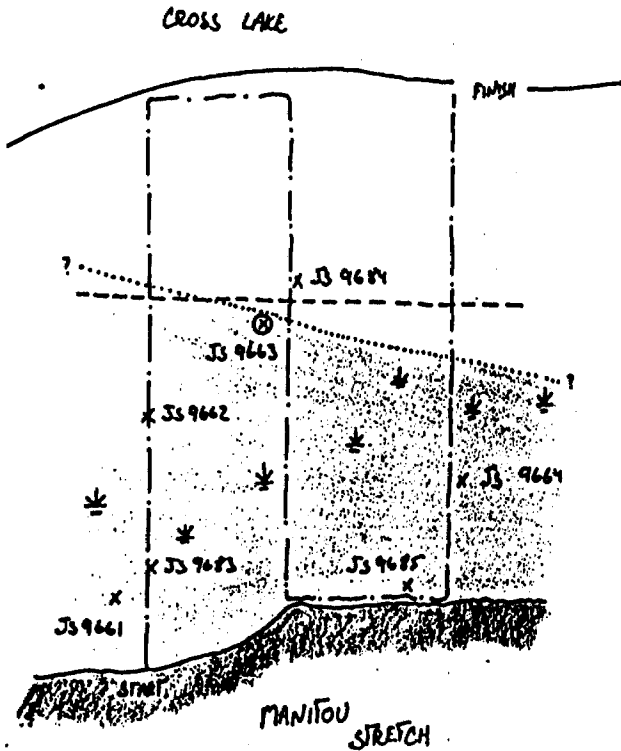
SHORELINE PROSPECTING  
(MANITOU STRETCH - NORTH SHORE)  
R. NIXON + S.T. JOHNSON  
JULY 1st, 1983  
1:10,000



AREA OF SHEARING  
.....?.. LIMIT OF SHEARING  
.X SAMPLE LOCATION  
JS 9614 SAMPLE NO.



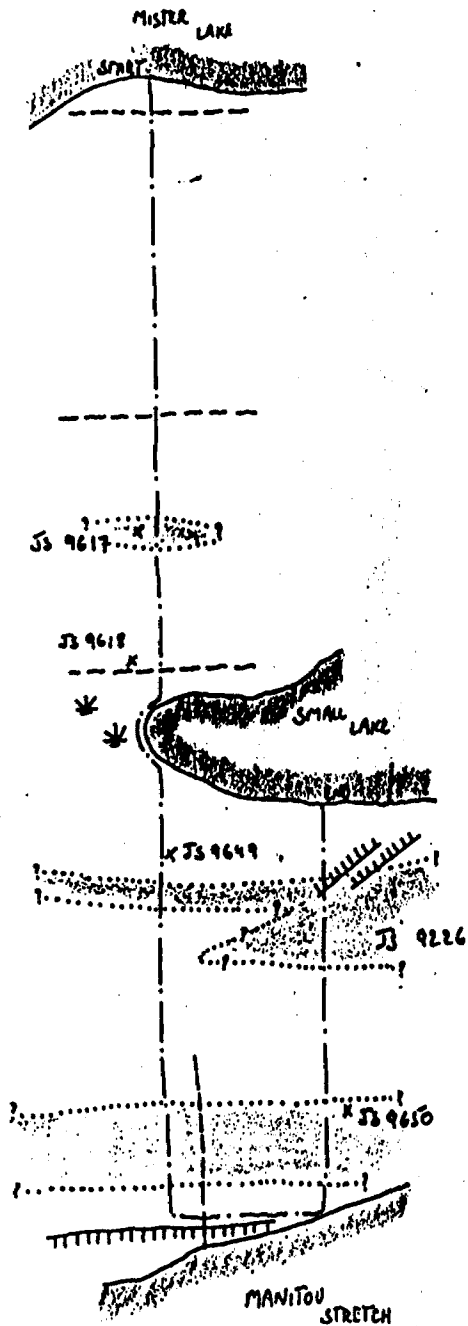
TRaverse 27  
 O. SCOUTEN; R. NIXON  
 JULY 2nd, 1983  
 1:10,000



- TRaverse
- CLAY LINE
- * SWAMP
- ?.....? LIMIT OF SHEARING
- ..... AREA OF SHEARING
- x SAMPLE LOCATION
- ⊙ FLOAT SAMPLE
- JS 9662 SAMPLE NO.

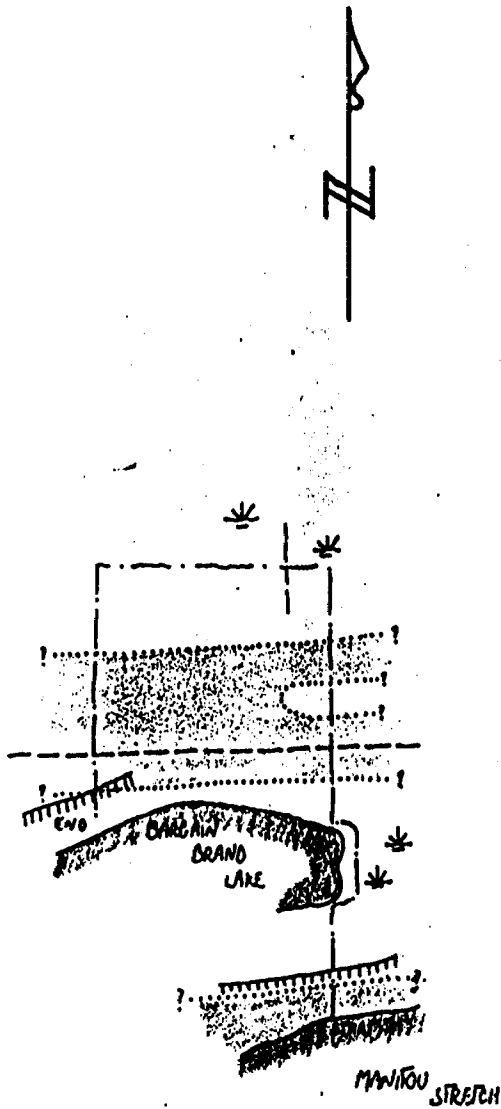


TRAVERSE #28  
JULY 2ND, 1973  
J. SCOUTER + S.T. JOHNSTON  
1:10,000



- TRAVERSE ROUTE
- CLAIM LINE
- ?.....? LIMIT OF SHEARING
- ..... AREA OF SHEARING
- ||||||| ESCARPMENTS
- * SWAMP
- x SAMPLE LOCATION
- JS 9617 SAMPLE NO.

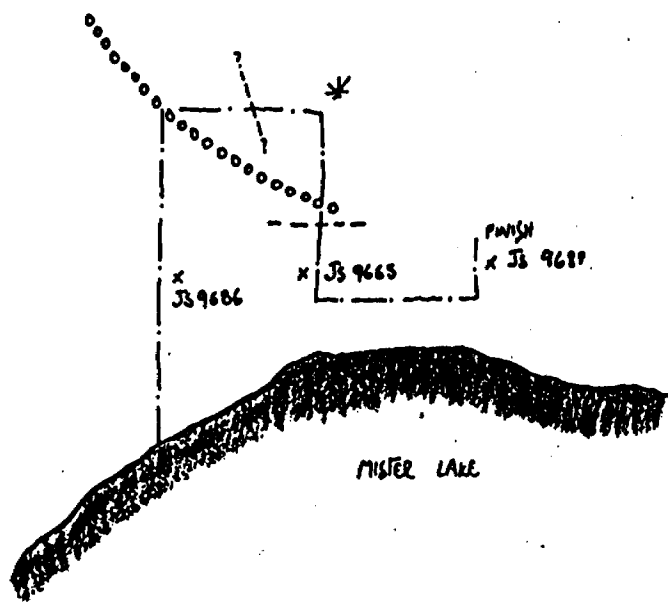
TRAVERSE # 29  
 J. SEOWEN + S.F. JOHNSON  
 JULY 3RD, 1983  
 1:10,000



- - - - - TRAVERSE ROUTE  
 - - - - - CLAIM LINES  
 ..... ? LIMIT OF SHEARING  
 [shaded area] AREA OF SHEARING  
 [line with ?] ESCARPMENT  
 [line with ?] SWAMP



TRAVERSE #30  
R. NIXON; D. SCOTEN  
JULY 3RD, 1983  
1:10,000

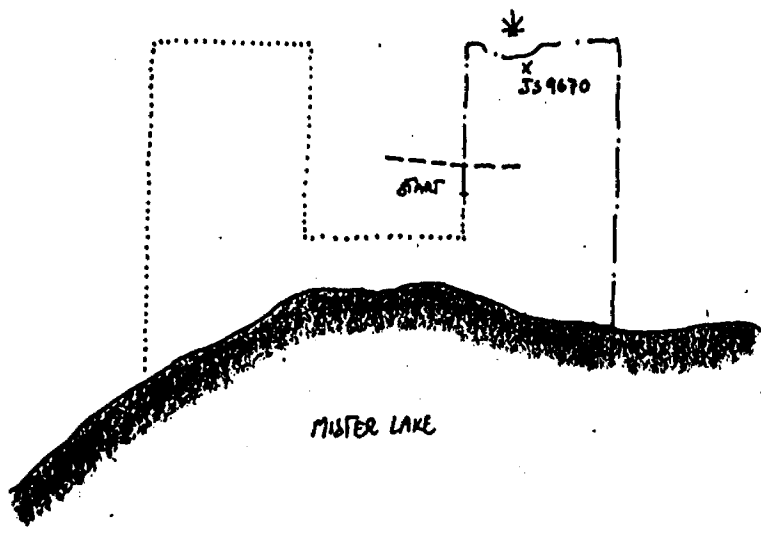


-----	TRAVERSE
-----	CLAIM LINE
0000000	PORTAGE
x	SAMPLE LOCATION
JS 9686	SAMPLE NO.
*	SWAMP

TRAVERSE 30 A  
 O. SCOUTEN ; S.T. JOHNSTON  
 JULY 6th, 1983  
 1:10,000

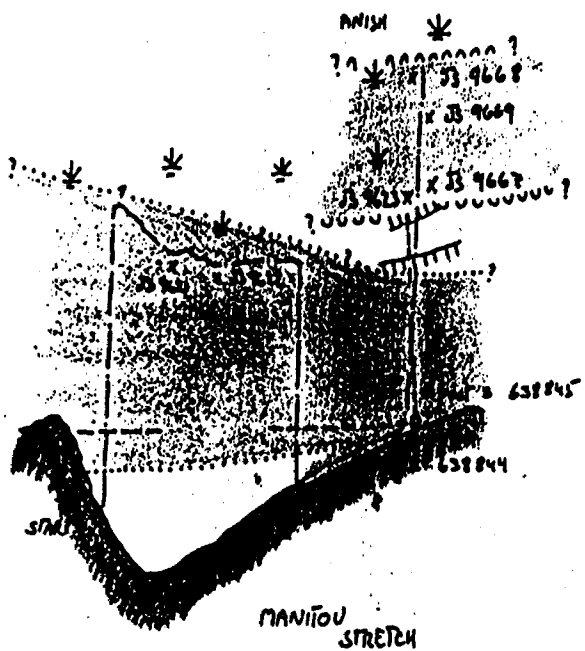


- - - - - TRAVERSE  
 ..... TRAVERSE 30 (5/7/83)  
 - - - - - CLAIM LINE  
 ✕ SWAMP  
 X SAMPLE LOCATION  
 JS 9670 SAMPLE NUMBER





TRaverse 31  
 O. SCOUTEN; S.F. JONLSTON  
 JULY 5th, 1983  
 1: 10,000



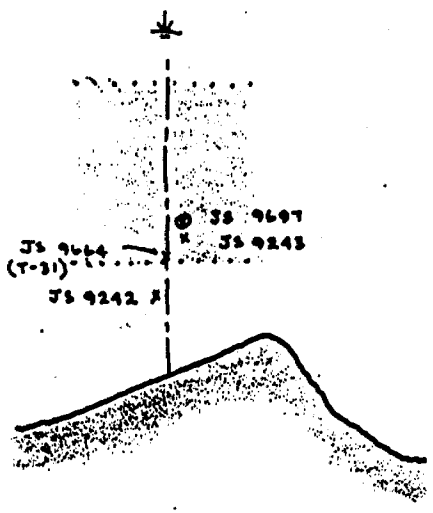
-----	TRaverse
-----	CLAY MUD
□	CLAY MUD
?.....?	LIMIT OF SHEARW
|||||	AREA OF SHEARW
?.....?	LIMIT OF COLLAN
|||||	AREA OF COLLAN
|||||	ESCARPMENT
*	SUMP
x	SAMPLE LOCATION
JS 9666	SAMPLE NUMBER



TRAVERSE 31 A

J. Scouten ; R. Nixon  
July 17, 1983  
1:10,000

- Traverse route
- x JS 9243 Rock sample location:  
number
- ⊙ Float
- ..... Limit of shearing
- Area of shearing



Manitou Stretch







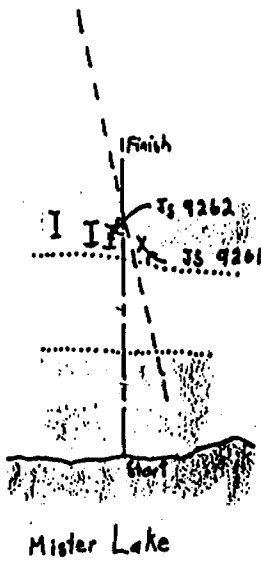
Traverse 32a.

R. Nison; J. Scouten

July 21, 1983

1:10,000

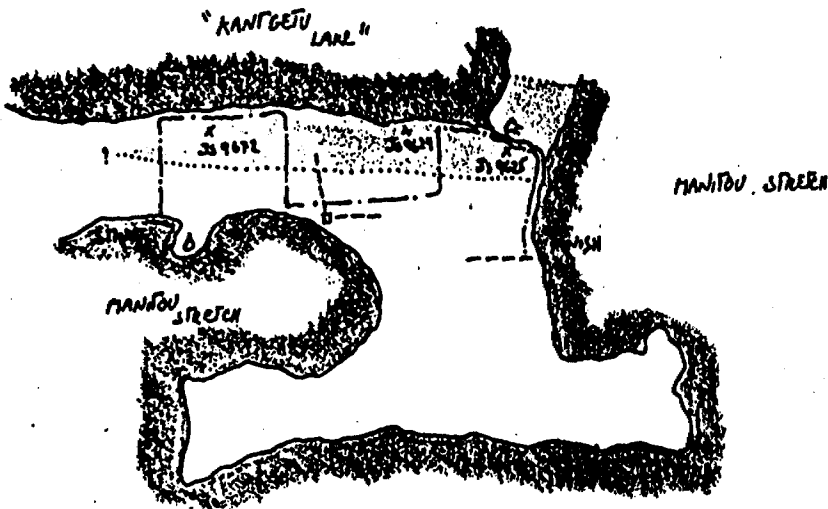
- Traverse Route
- x 75 9262 Rock Sample Locations; Numbers
- I Trenches
- ||||| Area of Shearing
- - - - - Claim Line



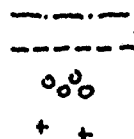
TRAVERSE 33  
 D. SCOUTEN; S.T. JOHNSTON  
 JULY 7TH, 1983  
 1: 10,000



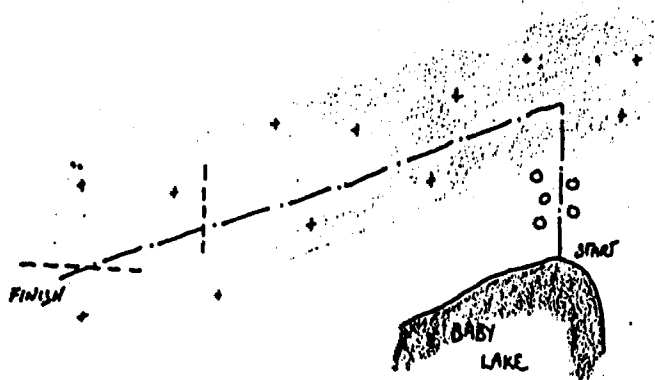
- TRAVERSE
- CAMP LINE
- o CAMP POST
- ?.....? LIMIT OF SURROUND
- ..... AREA OF SURROUND
- x SAMPLE LOCATION
- JS 9672 SAMPLE NO.
- o PILLION LAWS



TRAVERSE 34  
O. SCOUTEN; S.T. JONASTON  
JULY 8TH, 1985  
1: 10,000



TRAVERSE  
CLAY LINE  
BOULDER FIELD  
SATINOLITH

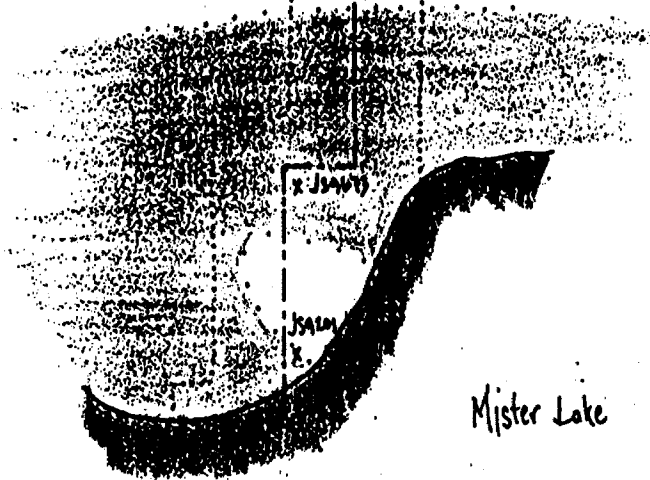




Missis Lake



Finish



Mister Lake

Traverse 35

S. Johnston; D. Scotlen

July 9, 1963

1:10,000

- · — · — · Traverse Route
- ..... Traverse 12 (June 20, 1963)
- x JS401 Rock sample location; number
- · · · · Limit of shearing
- ~~.....~~ Area of shearing

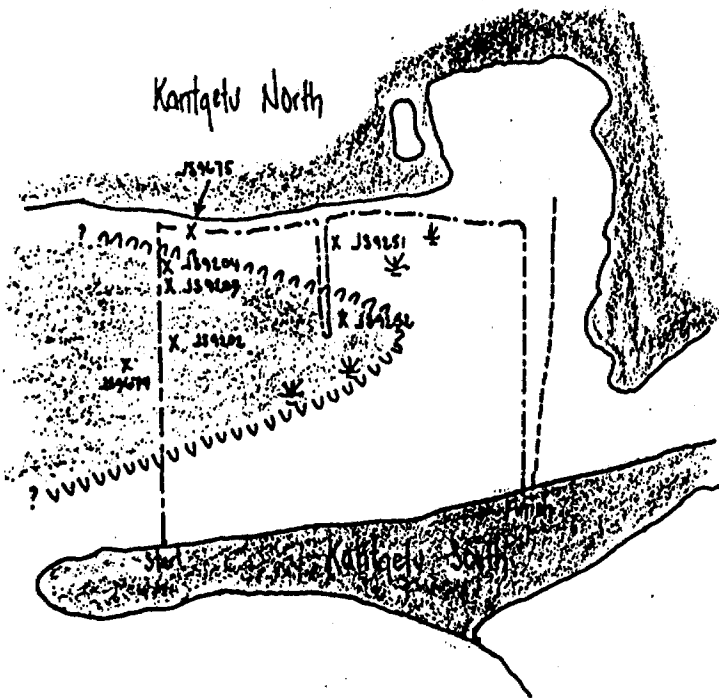


Traverse 36

D. Scooten, S. Johnston

10 July, 1983

1:10,000



- Traverse
- ..... Claim line
- ? nnnnnnnn? Limit of gossan
- Area of gossan
- Swamp
- X Sample location
- JS9674 Sample number



TRAVERSE 36A

J. Scouten ; R. Nixon

July 16, 1963

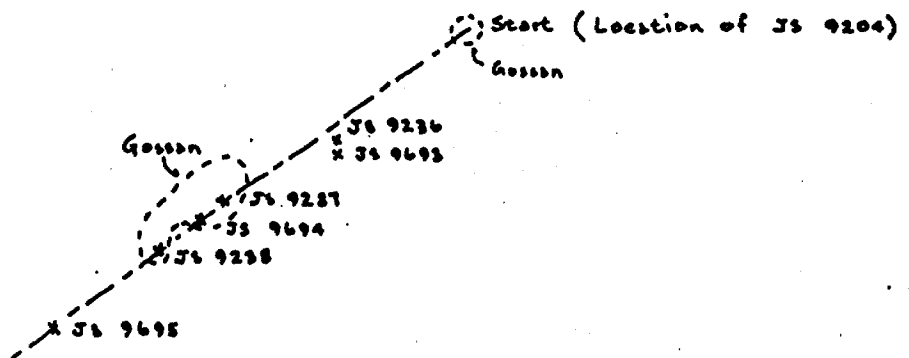
1:10,000

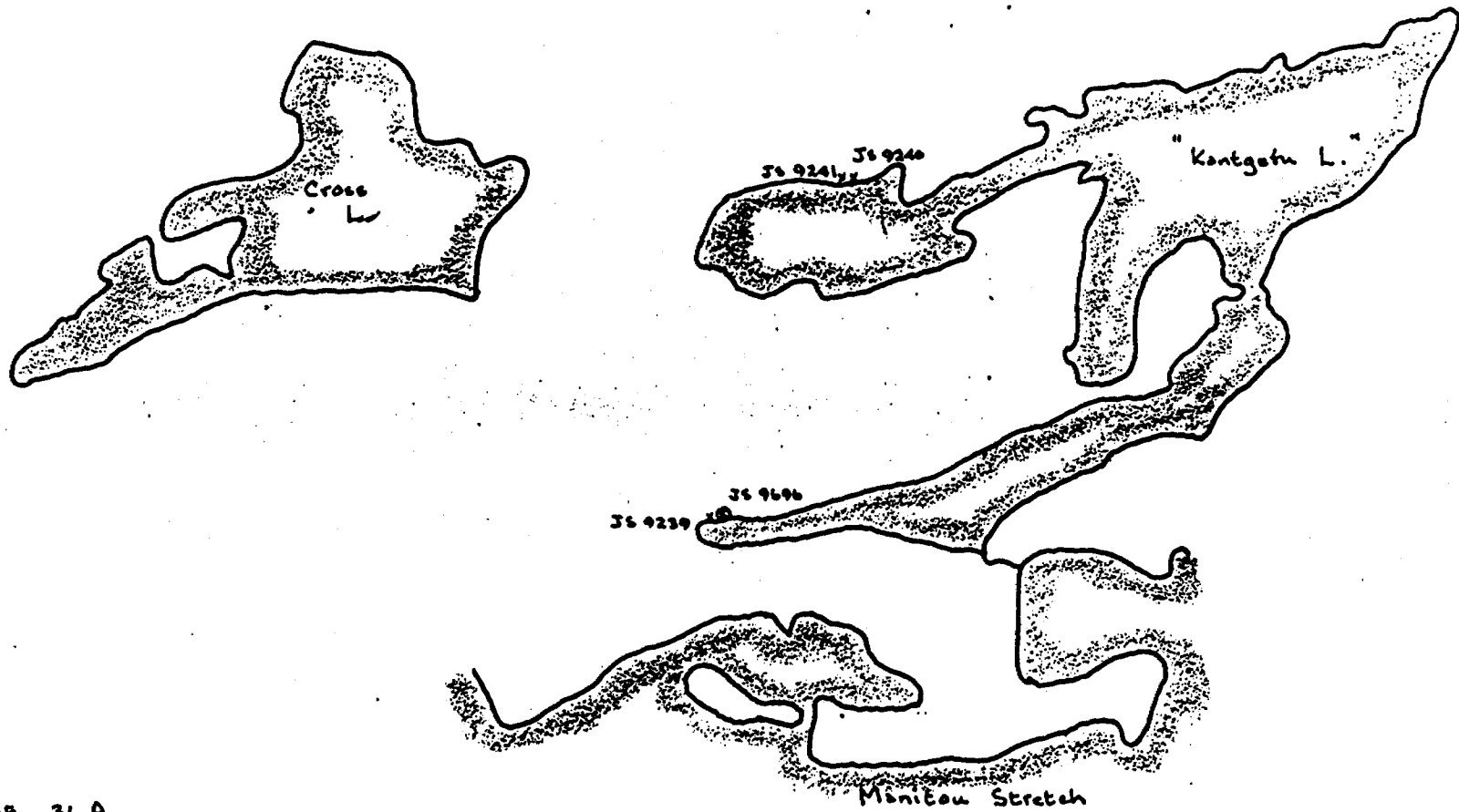
-----

x JS 9236

Traverse route

Rock sample location;  
number.





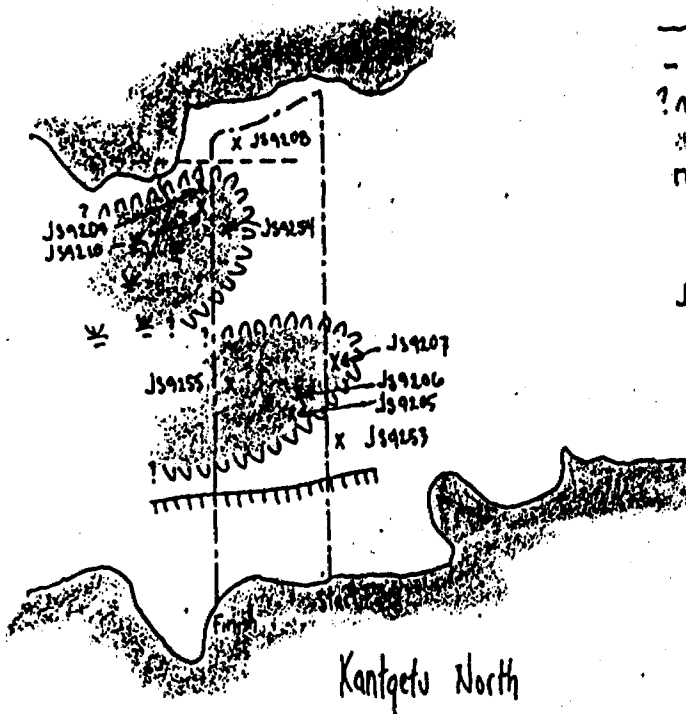
TRAVERSE 36A

1" = 1/4 mi.





Traverse 39  
D. Scouten, S. Johnston  
July 11, 1983  
1:10,000



- Traverse
- - - - - Claim line
- ? n n n n n ? Limit of gossan
- Area of gossan
- Escarpment
- Swamp
- X Sample location
- JS9253 Sample number

Kantqetu North



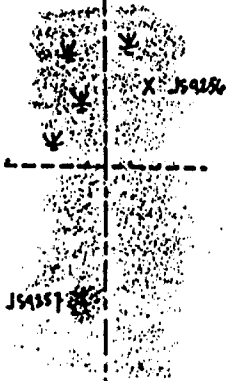
Traverse 38

D. Scouten, S. Johnston

July 12, 1983

1:10,000

Mister Lake



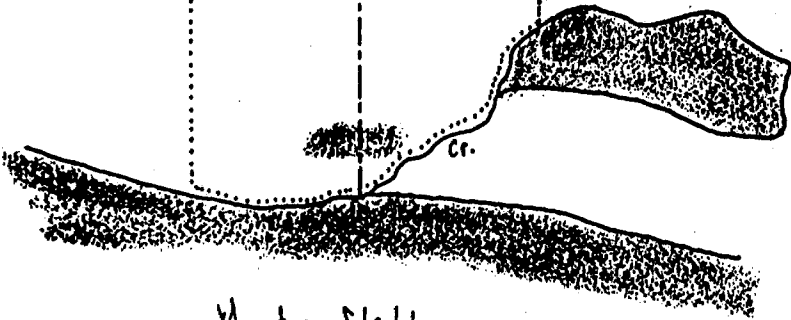
X JS9256

JS9257

JS9258 X

X JS9211

Cr.



Manitou Stetch

- Traverse
- Claim line
- ..... Traverse 4 (June 16, 1983)
- Area of shearing (approx.)
- X Sample location
- JS9256 Sample number
- Area of gossan (approx.)
- * Swamp



Traverse 29

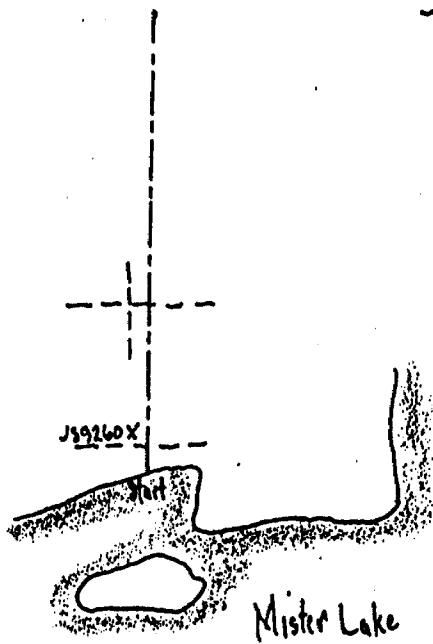
S. Johnston, D. Scouten

July 13, 1983

1:10,000

----- Traverse Route  
x JS9260 Rock sample location & number

----- Claim line





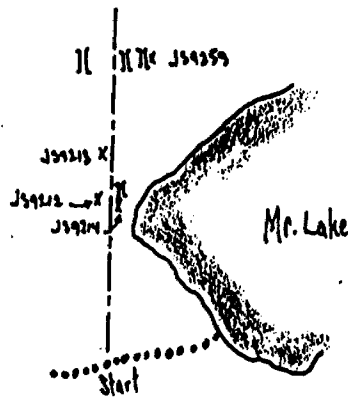
Traverse 40

S. Johnston, D. Scotter

July 15, 1965

1:10,000

- Traverse Route
- x 359213 Rod sample location i number
- Claim line
- || Trench
- ..... Flagged line





TRAVERSE 41

D. Scouten ; S. Johnston  
July 14, 1983  
1:10,000



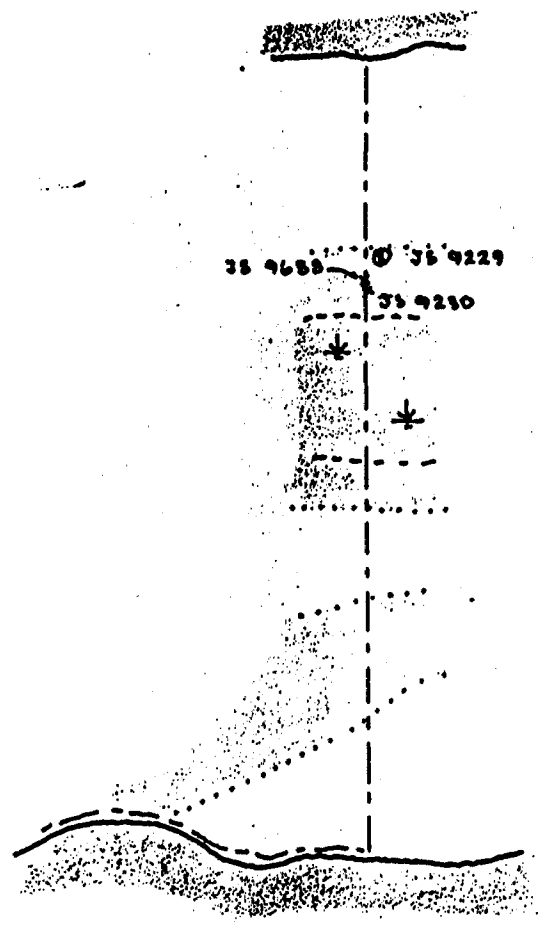
- Traverse route
- X JS 9215 Rock sample location number
- ..... Limit of shearing
- Area of shearing

Mister Lake



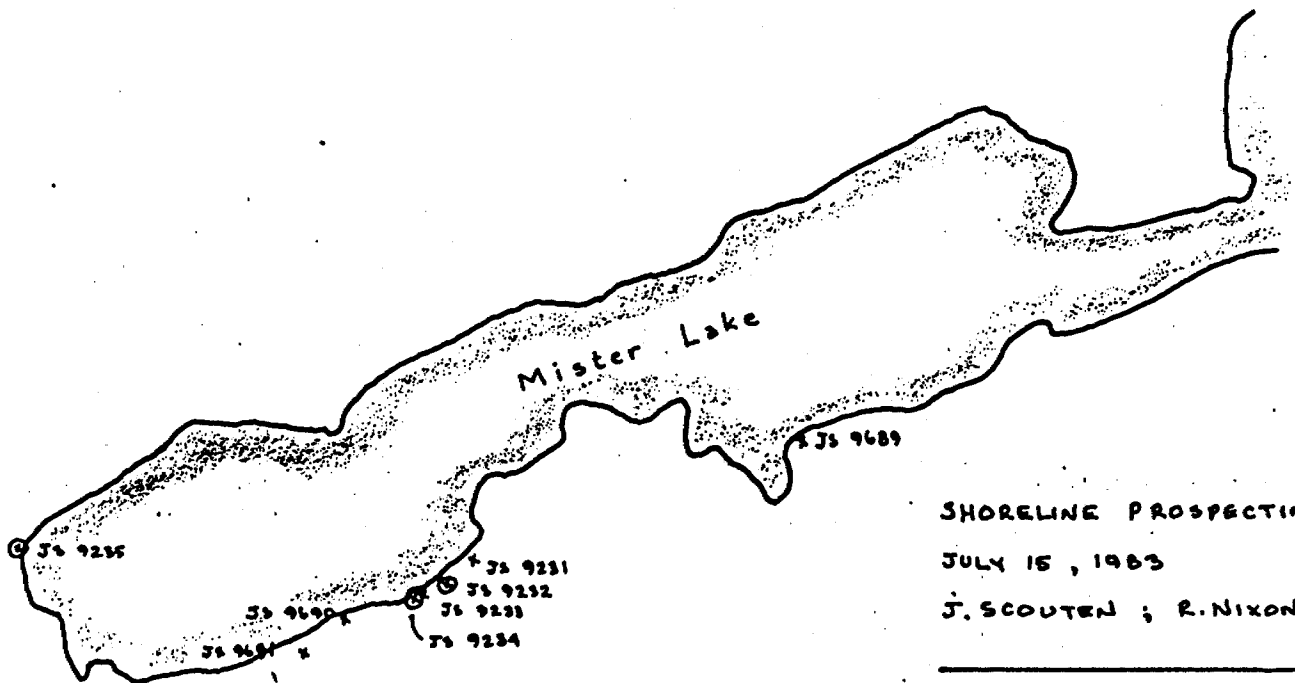
TRAVERSE 42

J. Scouten ; R. Nixon  
July 14, 1983  
1:10,000



Manitou Stretch

- Traverse Route
- x JS 9229 Rock sample location ; number
- ..... Limit of shearing
- Area of shearing
- * Swamp.
- O Float



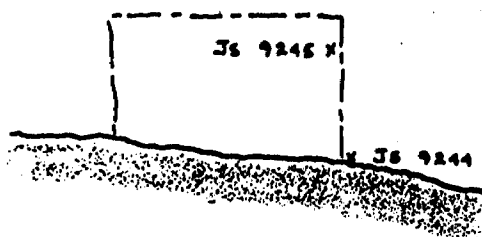
SHORELINE PROSPECTING (MISTER LAKE)

JULY 15, 1963

J. SCOUTEN ; R. NIXON

- 
- x JS 9691      Rock sample location ; number
  - ⊙              Float

SCALE : 1" = 1/4 mi.



Manitou Stretch

TRAVERSE 43

J. Scouten ; R. Nixon  
July 17, 1983  
1:10,000

— — — — — Traverse route  
x JS 9244 Rock sample location; number



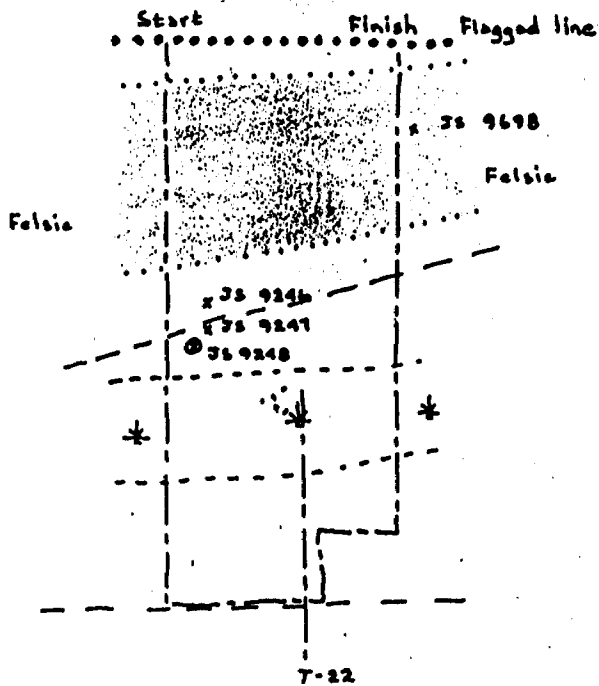


TRAVERSE 14

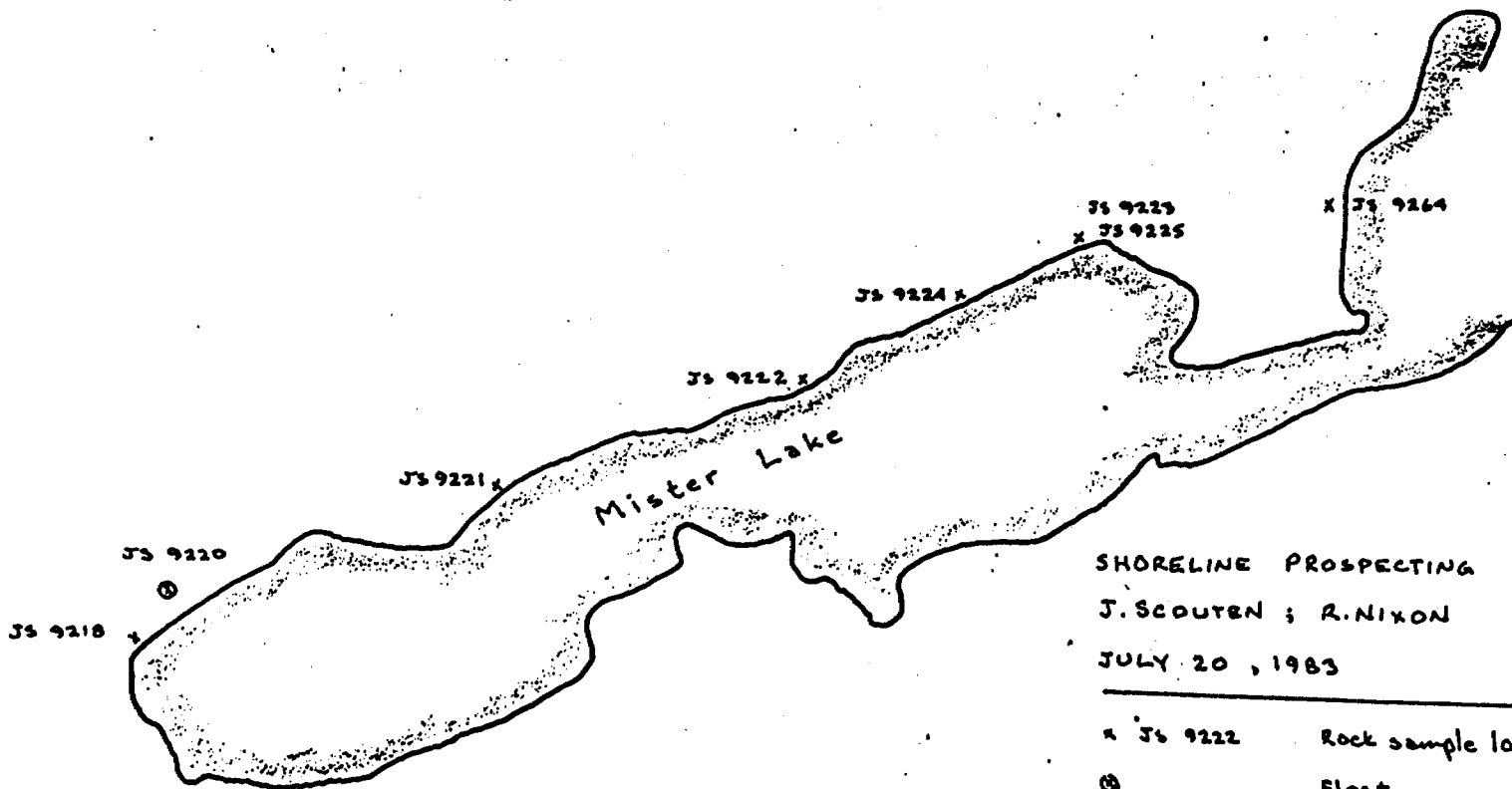
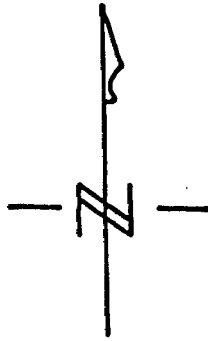
J. Scouten ; R. Nixon

July 18, 1983

1:10,000



- Traverse route
- x JS 9698 Rock sample location; number
- ⊗ Float
- - - - - Claim line
- ..... Limit of shearing
- ..... Area of shearing
- * Swamp



SHORELINE PROSPECTING (MISTER LAKE)

J. SCOUTEN ; R. NIXON

JULY 20, 1983

x JS 9222      Rock sample location; number:  
o                      Float

SCALE : 1" = 1/4 mi.

SPARTON RESOURCES INC.  
STRAW LAKE PROJECT  
SECTION 4  
ELECTROMAGNETIC SURVEY  
and  
MAGNETIC SURVEY  
1983 EXPLORATION PROGRAM

## Introduction

This section details the results of an electromagnetic and magnetic survey completed on the Straw Lake claim group of Sparton Resources Inc. between May 1983 and Dec. 1984. An attempt has been made to classify each anomaly and to arrange a priority of detailed follow-up exploration, where available, other information attained from concurrent prospecting, geological mapping, geochemistry and induced polarization surveys completed by Sparton Resources Inc., and previous exploration by other concerns is utilized in this assessment.

## Electromagnetic Survey

Instrumentation The survey was performed with a Crone Radem V.L.F. Unit. This instrument is a one man E.M. unit utilizing low frequency radio waves from military transmitters. The name "VLF" is a misnomer because it utilizes frequencies up to to 60 times higher than other E.M. units. The Radem is capable of detecting anomalies of low conductivity such as disseminated sulphides. However, because of the high frequencies utilized lithological contacts, shear zones, topographic and bedrock highs and lows, wet swampy ground and other undesirables react similarly to bedrock conductors.

The transmitting station used was Cutler, Maine. The operating frequency changed during the course of the survey; work performed prior to Jan. 1, 1984 was at 17.8 KHz. After Jan. 1, 1984 work was performed at 24.8 KHz. The increase in frequency has not significantly affected the responses.

## Theory of Operation

The Radem is a radio receiver utilizing the radiation from powerful military transmitters as the primary signal. The radiation contains both magnetic and electrical components, however, only the magnetic component is of concern because the subsurface carries the bulk of the signal energy.

The polarized magnetic field is roughly the shape of an ellipsoid around the transmitter. The magnetic vector is approximately parallel to the ground surface.

A station in the same direction as the geological strike is chosen to give a maximum coupling with the conductor. The direction of the magnetic component of the transmitted field is horizontal and perpendicular to the geological strike.

The Radem measures the secondary field, generated by conducting bodies when they are subjected to the transmitted field. The measurement is in terms of dip angles. The point of inflection associated with a reversal in measured dip angles (crossovers) from the direction of traverse to the opposite direction usually occurs directly over the conductor.

## Interpretation

Since the dip angles do not necessarily give an exact location of the conductor, a simple low-pass filter (Fraser filter) is used to improve interpretation.

Because of the ease of interpretation and realization of anomalies after Fraser Filtering all of the following comments refer to Fraser Filter anomalies.

## Discussion of Results

A large number of VLF-EM anomalies have been detected. The majority of these anomalies are caused by conductive overburden, conductive lake sediments, and topography. However, many conductors are bedrock generated and require follow up. Tables 1 to 8 summarize the strength, strike length, trend magnetic association probable cause and recommended follow-up of every conductor.

## Magnetic Survey

Instrumentation The survey was performed using a Scintrex MP-2 portable proton precession magnetometer. A Scintrex MBS-2 magnetic base station was used to record diurnal magnetic variations.

The MP-2 has an accuracy of  $\pm 1$  gamma in a field of 50,000 gammas. However, actual survey accuracy is proportional to the degree of care used in applying diurnal corrections. Accuracy should be kept within 10-15 gammas

## Theory of Operation

Magnetic variations are caused by variations in magnetization of the rock from station to station. This magnetization exists because of the presence of minerals with high magnetic susceptibility. The most common minerals to affect the earth's magnetic field are, magnetite, pyrrhotite and ilmenite. Magnetometers are used to measure this variation.

The MP-2 is a proton precession magnetometer. This magnetometer utilizes the precession of spinning protons in a volume of kerosene to measure the total magnetic intensity.

When the hydrocarbon is subjected to an electric current the spinning protons are temporarily polarized. When the current is removed the spin of the protons cause them to precess about the direction of the ambient magnetic field. The signal generated by the precessing protons is directly proportional to the intensity of the total magnetic field. The magnetic intensity measured is the magnitude of the earth's field vector independent of its direction. A change in the total field intensity is referred to as an anomaly.

## Interpretation

After making diurnal corrections, the value of the magnetic field is plotted at the read station. On the appended maps these values are contoured at 100 gamma intervals to provide easier analysis of variation.

T A B L E 1      RESULTS OF VLF-EM SURVEY

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
1.1	10	≥ 300	NE-SW	No		Intermediate lapilli tuff	Against trend of Geology associated with ridge. Believed Topographic effect.	No
1.2	36	≥ 600	E-N	No		Swamp	Entirely within swamp	No
1.3	13	1000	E-W	No		Sericitized felsic tuffs	Very weak anomaly. Associated with wide zone of disseminated pyrite indicated from drilling	Yes
1.4	2	100	E-W	No		Felsic tuffs with pyrite	May be associated with sulphide zone of 1.3	Yes
1.5 see (2.1)	59	≥ 1900	NW-SE			Felsic volcanic	In swamp from L-26w to L-14w. Flanking felsic tuff o/c from L-14w to L-10w. 2.1 had no I.P. response	No
1.7	46	700	E-W			Mafic-felsic contact	Should be covered by I.P. Survey	Yes
1.8	11	~ 200	E-W			Intermediate tuff	Anomaly is weak and is at base of ridge. Believed to be topographic	No
1.9	39	≥ 1000	E-W			-	Entirely within swamp. Probably conductive overburden	No
1.10	30	400	E-W			Felsic tuff, sericite and carbonate	Should be covered by I.P.	Yes
1.11	30	≤ 200	E-W			Near contact seds/porphyry	Should be covered by I.P.	Yes
1.12	20	1000	E-W	M 1.2		Mafic/felsic volcanic	May in part be conductive overburden (East of access road). Should be prospected west of access road	Yes

TABLE 1 cont.

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
-----------	----------------------------------	--------------------	-------	---------------	--------	---------	----------	-----------

1.13	37	< 600	E-W			No exposure	Associated with Vigor Creek and graphitic shear zone drilled by Freeport Minerals (DDH #6). Represents Manitou-Straw Fault zone. May be equivalent to anomaly 2.2	No
1.14	29	500	E-W			No exposure	Entirely within swamp. Conductive overburden	No
1.15	33	500	E-W			No exposure	Conductive overburden - swamp	No
1.16	60	≥ 1100	E-W			No exposure	Drilled by INCO in 1969 (#42727). Graphitic horizon in mafic volcanics	No
1.17							See anomaly 2.9	
1.18	61		~E-W			Intermediate felsic volcanic	Conductive overburden - Swamp from 19W-14W. L-22W to L-19W. associated with intermediate to felsic volcanic. Cover with I.P. from L-23W to L-20W	Yes

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
2.1	64	≥ 200	E-W	No		No outcrop	Strikes into Centre Lake may join 2.15. Conductive overburden. Same as 1.5	No
2.2	65	> 1700	E-W	Yes		Graphite	Drilled by Freeport Minerals (DDH#8) source graphite. Probably same horizon as 1.13. Manitou-Straw Fault	No
2.3	28	600	~E-W	No		Felsic tuff	Covered by I.P. survey. No response Topographic anomaly	No
2.4	31	300	E-W	No		No outcrop	Conductive overburden - Swamp covered by I.P. No response	No
2.5	20	200	~E-W	No		No outcrop.	Conductive overburden. No response from I.P. survey	No
2.6	14	1000	~E-W	No		No outcrop	No response from I.P. survey	No
2.7	10	300	~E-W	No		No outcrop	No response from I.P. survey	No
2.8	50	700	E-W	No		No outcrop	No response from I.P. survey	No
2.9	36		E-W	Yes		Sericite schist, felsic tuff (sed)	Extends onto sheet #1 (1.20) and onto sheet #3. Drilled at L-4W intersected sulphide zone in intermediate volcanic. An I.P. survey indicates a higher anomalous zone at L 5E to L 10E. Drilling is recommended to further test this anomaly	Yes
2.10	36	250	NE-SW	No		No outcrop	Covered by I.P. Survey. No response. Conductive overburden	No
2.11	55	400	E-W	No		Felsic tuff	Should be covered by I.P. survey	Yes



TABLE 2 cont.

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
2.12	40	≥ 400	E-W			No outcrop	Associated with Vigor Creek and Swamp. Equivalent to 1.14	No
2.13	25	≥ 500	S-E			No outcrop	Associated with mafic to intermediate volcanic. Should be prospected and/or covered by I.P.	Yes
2.14	44	700	E-W			No outcrop	Probably within feldspar porphyry unit. Anomaly entirely in swamp. No response to I.P. survey	No
2.15	20	~ 200	E-W			No outcrop	No response to I.P. survey. Strikes into Centre Lake. May be same as 2.1 Conductive Overburden	No
2.16	14	200	E-W			No outcrop	Probably overburden conductor. Strikes into Rick Lake	No
2.17	60	≤ 100	-			No outcrop	Only one line over conductor. Strikes into Vigor Lake. May be equal to 2.12 and 1.4	No

TABLE 3

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
3.1	27	450	E-W			No outcrop	Strongest section on anomaly in swamp. No exposure on west end	No
3.2	31	800	NE-SW			No outcrop	Follows in creek that is on east end of Floyd Lake. Nature of Lake anomaly indicates lake effect. Conductive lake sed	No
3.3	54	≥ 800	E-W			In Lake	Central to Floyd Lake. Anomaly weakens near shore and island in lake suggesting conductive lake sed	No
3.4	31	≥ 100	-			No outcrop	Covered by only one line-strikes into Lake on its west end. Open to east. May be topographic or lake effect. However, should be prospected.	Yes
3.5	26	≥ 250	E-W			No outcrop	Entirely in swamp - Conductive overburden	No
3.6	21	200	E-W			No outcrop	" " " "	No
3.9							Same as 2.9. The increase in strength and width of the anomaly at the NE end of Rick Lake is probably conductive overburden.	
3.10	28	≥ 1100	North of E-W			Felsic tuff	Requires I.P. from L 20E to L 32E VLEM between L 7E and L 24E would distinguish multiple conductors. The anomaly strength may be exaggerated by conductive overburden. Possibly equivalent to 3.9.	Yes

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
3.11	45	≥ 1000	~ E-W			Felsic tuff	May be equivalent to 3.9. VLEM and/or IP needed to distinguish 3.9-3.10-3.11	Yes
3.12	73	1500	E-W			Felsic Intermediate tuffs	Strikes onto sheet #4 and into Paleo Lake. Partly follows along creek and swamp. Has a direct correlation with I.P. anomaly at L22E Strip area with coincident IP/VLF. Because I.P. may not have penetrated overburden, do VLEM on every line of anomaly to verify conductor. Mod.-strong humus anomaly at L-29E	Yes
3.13	78	≥ 1400	E-W			Int. tuff at L21W + L22W	Strikes into Paleo Lake and Sheet #4. Covered by I.P. survey strong response on L20E and L32E moderate to zero response between. Anomaly flanking on a strong IP to the south from L19E to L26E. Length of cond. in swamp except L21-22E where coincident with intermediate tuff. Equivalent to 2.2; Manitou-Straw fault zone.	Yes
3.14	30	450	E-W			No outcrop	Entirely in swamp. Conductive overburden.	No
3.15	58	≥ 1300	NE-SW & NW-SE				Covered by swamp from L12E to L18E. L18E to L25E associated with mafic volcanic. I.P. coverage from L19E to L25W. Good response only at L25E. Soil anomaly at L24E. Drill/strip.	Yes
3.16	39	350	E-W			No outcrop	Entirely within swamp. Covered by I.P. survey. No response.	No
3.17	27	450	~ E-W			No outcrop	Covered by swamp. I.P. survey shows response at L-20E. Strip/Prospect.	Yes

T A B L E 3 cont.

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
3.18	60	≥ 700	NE-SW			No outcrop	Swamp covered. No response to I.P. survey.	No
3.19	24	≥ 200	NE-SW			No outcrop	Swamp covered. No response to I.P. survey.	No
3.20	79	≥ 900	NW-SE			Int. volc. and seds	Crosses geological trend. Mainly in swamp and low ground. Conductive overburden.	No

ANOMALY #	VLF		TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
	MAXIMUM (FRASER UNITS)	LENGTH (METRES)						
4.4	58	1400	NE-SW			Lake	Lake conductive zone. Extends from L-28E to L-55E. Strongest in the lake weakens at both E-W ends of lake. Anomalies weak towards shores and wrap around islands indicating source is conductive lake sediments.	No
4.2	57	≥ 500	NE-SW			Not mapped	This is the western "on land" continuation of the Missus Lake Conductive Zone. Probably conductive overburden or topographically controlled.	No
4.3	50	≥ 800	NE-SW			Not mapped	Strikes into Missus Lake and continues within the Missus Lake conductive zone. Probably not related to bedrock.	No
4.20	71	1200	E-W			Not mapped	Strongest section of anomaly between L-47E and L-53E should be prospected to determine source.	Yes
4.5	12	600	NE-SW			Not mapped	Very weak anomaly. Probably not bedrock conductor. However, requires a low priority follow up.	Yes
4.10	41	400				Not mapped	See 3.10	
4.11	32	800	E-W			Not mapped	Strikes into Mister Lake may be same as 3.11 should be prospected.	Yes
4.6	17	≥ 600	NE-SW			Not mapped	Very weak set of anomalies. Probably not related to bedrock.	No

ANOMALY #	FRASER UNITS	LENGTH (METRES)	TREND	ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
4.13	80	≥ 1800	E-W			Not mapped	Continuation of 3.13 - Manitou-Straw shear zone. Anomaly strikes into the Manitou Stretch. Prospecting and sampling along trend of anomaly is recommended.	Yes
4.7	40	350	NE-SW			Not mapped	Short strike length should be prospected to determine source.	Yes
4.18	53	900	NE-SW			Not mapped	Same as 3.18. However, should be prospected between L-35E and 40E.	Yes
4.19	53	≥ 1000	NE-SW			Not mapped	Same as 3.19. However, should be verified in field as bedrock.	Yes
4.8	79	≥ 600	NE-SW			Not mapped	Strong conductor may reflect graphitic horizon in seds. Strikes into Manitou Stretch should be prospected.	Yes

T A B L E 7 (West Grid)

ANOMALY #	VLF MAXIMUM (FRASER UNITS)	LENGTH (METRES)	TREND	MAG ASSOC.	GAMMAS	GEOLOGY	COMMENTS	FOLLOW-UP
W-1	36	≥ 250	NE-SW	No	-	No exposure	Check geology	Yes
W-2	71	500	E-W	No	-	No exposure	Check geology	Yes
W-3	16	200	NE-SW	Yes	1000	No exposure	Probably magnetite I.F.	Yes
W-4	24	600	E-W	Yes	500	No exposure	Prospect east end of anomaly	Yes
W-5	12	200	E-W	No	-	No exposure	Conductive overburden	No
W-6	43	≤ 100	-	No	-	Felsic volca- nic	Prospect	Yes
W-7	106	≥ 1900	NE-SW	No	-	No exposure	Graphite horizon	No
W-8	83	≥ 1900	NE-SW	Yes	Low	No exposure	Trace of Manitou-Straw	No
W-9	20	≥ 100	-	No	-	No exposure		
W-10	78	≥ 100	-	No	-	Interim to felsic tuffs	Prospect	Yes
W-11	23	100	-	No	-	No exposure	Conductive overburden	No
W-12	18	100	-	No	-	No exposure	Conductive overburden	No
W-13	20	100	-	No	-	No exposure	Conductive overburden	No
W-14	44	≥ 900	E-W	Yes	500	Mafic and felsic tuffs	Probably graphite + py, Prospect	Yes

## Results of Magnetometer Survey

TABLE 9

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M 1.1	≤ 1000	F 1.15; 1.16	Mafic and intermed tuffs . Pyrite and magnetite in intermediate tuffs.	May represent band of I.F. within the volcanics.
M 1.2	1200	D 1.13	Felsic tuffs-disseminated sulphides.	Probable po rich zone in the felsic tuffs
M 1.3	≤ 900	No	No exposure	May be within felsic volcanic unit
M 1.4	≤ 1400	F 1.7; F 1.5	Mafic tuffs and flow.	Magnetite rich band.
M 1.5	500	No	Felsic Lapilli tuffs	May indicate pod of magnetite I.F.
M 1.6	≤ 500	No	Tuffaceous metaseds with magnetite .	Band of lean I.F.
M 1.7	600	D 1.4	In swamp	-
M 1.8	300	D. 1.18	No exposure	Maybe within sericitic felsic volcanic.



TABLE 10

D = Direct  
F = Flanking

Anomaly	Gamma	VLF-Assoc.	GEOLOGY	Comments
M 2.1	≤ 500	D 2.9	Felsic tuffs, sericite schist visible pyrite mineralization.	Probable po in the py.
M 2.2	300	D 2.8	No exposure	Probably in felsic volcanic
M 2.3	250	F. 2.8	Sericitic felsic tuffs.	poss. = 2.1
M 2.4	200	No	Sericite schist	Maybe same source as 2.3.
M 2.5	≤ 800	No	Mafic-intermediate volcanic py - hematite-sericite	Mag. and/or po associated with py.
M 2.6	900	No	On strike with cherty seds. py-hem.	Possible zone of I.F. in seds.
M 2.7	500	No	No o/c	Possible mafic/felsic content
M 2.8	300	F 2.2	Flanking conductor drilled by Freeport (graphite)	Probably po in graphitic zone.
M 2.9	400	No	No o/c	
M 2.10	150	No	f.g. sediment with hematite.	Hematite may be from magnetite.

TABLE 11

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
3.1	800	No	Granite - Granodiorite Mafic volcanic.	Magnetite concentration near granitic contact.
3.2	900	No	Granite - volcanic contact	Magnetite concentration at granite contact..
3.3	450	No	No exposure	-
3.4	425	No	Sericitized felsic tuff - py	Poss. po. associate with py.
3.5	300	No	Sericite felsic-interm. tuff - hematite.	Probable mag. altering to hematite.
3.6	600	No	Felsic tuff - disseminated sulphides and magnetite.	May delineate zone of lean I.F./Sed.
3.7	500	F weak	Felsic + mafic tuff with disseminated sulphides.	Probably same horizon as M 3.6.
3.8	550	F 3.13	Mafic volcanic	-
3.9	350	F 3.13	Siltstone/Argillite	-
3.10	300	F 3.13	West end - Siltstone / argillite. East end - intermediate to mafic volcanic.	East end geology should be checked.
3.11	500	D 4.18	No exposure - proximal to interim to mafic tuffs,	-
3.12	250	F 3.17; 3.20	Mafic volcanic / Siltstone	-
3.13	300	No	Mafic volcanic - Interme- diate tuff with dissemina- ted sulphide	Possible po in disseminated sulphide zone.

TABLE 12

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M 4.1	850	No	Not mapped	-
M 4.2	400	No	Not mapped	-
M 4.3	400	F 4.10	Not mapped	Defines strat. zone. Probably same as M 4.6.
M 4.4	200	No	Not mapped	-
M 4.5	300	No	Not mapped	-
M 4.6	200	No	Not mapped	-
M 4.7	≤ 700	D 4.5	Not mapped	1400 m length. May be two parallel mag. zones.
M 4.8	≤ 150	No	Not mapped	≤ 1000 m length. Weak stratigraphic mag zone.
M 4.9	150	F 4.11	Not mapped	-
M 4.10	200	No	Not mapped	-
M 4.11	800	No	Not mapped	-
M 4.12	≤ 750	No	Not mapped	900 m length good stratigraphic marker.
M 4.13	800	No	Not mapped	F M 4.12
M 4.14	750	F 4.7	Not mapped	< 1700 m. May represent band of magnetite rich seds or tuffs.
M 4.15	600	F 4.7	Not mapped	-
M 4.16	550	No	Not mapped	-
M 4.17	400	No	Not mapped	-
M 4.18	500	D 4.8	Not mapped	3 mag. highs coincident with 4.8 probably po assoc. with graphite.
M 4.19	950	No	Not mapped	-
M 4.20	600	No	Not mapped	700 m stratigraphic anomaly.
M 4.21	Depression	D 4.13	Not mapped	Series of mag lows along trace of Manitou-Straw Fault Zone

TABLE 12

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M 4.22	200	D 4.11	Not mapped	-
M 4.23	≤ 100	D 4.19	Not mapped	900 m length, weak but coincident along 4.19 for 990 m.

TABLE 13

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M 5.1	350	No	Not mapped	1200 m length. Stratigraphic magnetic anomaly. May be equiva- lent to M5.25.
M 5.2	300	No	Not mapped	600 m. Maybe same horizon as M5.30
M 5.4	250	No	Not mapped	-
M 5.5	≤ 200	No	Not mapped	3 separate anomalies that probably occur along the same horizon.
M 5.6	≤ 750	No	Not mapped	- 1500 m. along south shor of Mister Lake strongly magnetic horizon. May be equivalent to 5.7.
M 5.7	1000	No	Not mapped	-
M 5.8	250	No	Not mapped	-
M 5.9	700	D 5.8; F 5.8	Not mapped	Zone of mag anomalies. May be two closely spaced parallel mag. horizons.
M 5.10	700	No	Not mapped	-
M 5.11	900	No	Not mapped	Narrow stratigraphic mag horizon may be same horizon as M 4.16
M 5.12	400	No	Not mapped	-
M 5.13	950	D 5.9; F 5.8	Not mapped	-
M 5.14	350	No	Not mapped	-
M 5.15	400	No	Not mapped	-
M 5.16	1200	No	Not mapped	-
M 5.17	450	No	Not mapped	-
M 5.18	600	No	Not mapped	May be some horizon as M5.23 and M5.28.
M 5.19	550	F 5.11	Not mapped	-
M 5.20	800	No	Not mapped	-

TABLE 13

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M 5.21	2000	No	Not mapped	-
M 5.22	350	No	Not mapped	May be same horizon as M 5.18
M 5.23	1100	F 5.16	Not mapped	See M 5.18
M 5.24	600	No	Not mapped	-
M 5.25	200	No	Not mapped	-
M 5.26	200	No	Not mapped	-
M 5.27	200	No	Not mapped	-
M 5.28	550	No	Not mapped	See M 5.18
M 5.29	1000	F. 5.10	Not mapped	May be same horizon as M 5.14 and M 5.12.
M 5.30	350	No	Not mapped	-
M 5.31	450	No	Not mapped	See M 5.18

TABLE 14

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
6.1	700	No	Not mapped	-
6.2	200	Weak	Not mapped	-
6.3	400	No	Not mapped	-
6.4	700	No	Not mapped	-
6.5	150	No	Not mapped	Weak 800 m anomaly.
6.6	≤ 300	No	Not mapped	1600 m moderate to strong narrow zone possibly lithologic or lean I.F.
6.7	600	F 6.13	Not mapped	700m strong narrow anomaly may be band if I.F.
6.8	400	No	Not mapped	Strong narrow anomaly may be band of I.F.
6.9	250	No	Not mapped	-
6.10	350	No	Not mapped	-
6.11	350	No	Not mapped	-
6.12	800	F.D. 6.3	Not mapped	-
6.13	≤ 300	D 6.4	Not mapped	-
6.14	≤ 1100	No	Not mapped	Interpreted up to 1800 m length strong anomaly. Appears offset by fault at L-86E - 87E.
6.15	400	F.D. 6.11	Not mapped	-
6.16	350		Not mapped	-
6.17	500	No	Not mapped	Possibly two closely spaced parallel zone
6.18	600	D 6.9	Not mapped	-
6.19	275	D 6.8	Not mapped	-
6.20	400	No	Not mapped	-

TABLE 14

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
6.21	800	No	Not mapped	-
6.22	200	D 5.13	Not mapped	-
6.23	700	No	Not mapped	-
6.24	500	No	Not mapped	-
6.25	300	No	Not mapped	-
6.26	300	D 6.7; 6.6	Not mapped	-
6.27	400	F. 13	Not mapped	-



TABLE 15 (West Grid)

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
M-W1	2000	F Wa	Mafic-intermediate volcanic	Geology should be re-examined
M-W2	1300	F W-3	Mafic volcanic ?	Probable band of I.F. May be some horizon as M-W5
M-W3	550	D W-4	Mafic volcanic ?	
M-W4	600	No	Intermediate volcanic	
M-W5	1350	No	Mafic volcanic	May be fault offset of M-W2
A magnetic low extending from L-8W to L-3W is directly associated with anomaly W-10. Probably represents trace of Manitou-Straw Fault Zone.				

TABLE 16 (East Grid)

D = Direct  
F = Flanking

Anomaly	Gammas	VLF-Assoc.	GEOLOGY	Comments
		NO MAGNETIC ANOMALIES ON THIS SHEET.		

### Discussion of Results

Tables 9 to 16 summarize the strength, VLF-EM association, and geology of each magnetic anomaly. The table also includes general comments on many of the magnetic anomalies.

### Conclusions

Both surveys have been successful in delimiting numerous anomalies that require more detailed follow-up.

### Recommendations

Recommendations for further follow-up work are detailed in Tables 1 to 16.

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SECTION 5  
GEOCHEMICAL SURVEYS  
1983 EXPLORATION PROGRAM

## GEOCHEMICAL SURVEYS

-----

A soil geochemistry survey and an organic (humus) geochemical survey have been completed on the Straw Lake property.

Samples were taken, where possible, at 25m intervals on grid lines spaced at 100m. It was endeavoured to collect soil samples at each station, however, because of abundant low-lying often swampy ground, and an erratically developed soil profile, soil was not always available. At stations with no soil development, organic (humus) samples were collected.

Sampling was attempted at 3631 grid stations. From this 1809 soil samples (49.8%) and 1610 humus samples (44.3%) were collected. A combined sample coverage of 94.1% was realized.

### SOIL SURVEY

-----

Soil samples were collected at stations with a developed soil profile. The B-horizon was the sampled horizon. Samples were collected with a grub hoe and stored in kraft soil bags. Each bag was marked with the line number and station of the sample site.

The soil profile is locally well developed but is generally poorly developed to absent. The B-horizon usually occurs beneath 2"-18" of leached, puggy, grey, A1-horizon soil. The B-horizon is often rocky, probably often being glacial till cover.

All but 89 samples were analyzed at Technical Service Laboratories, Mississauga, Ontario. 89 samples were analyzed at Assayers Limited, Rouyn, Quebec. All samples were analyzed for gold and 1193 of 1809 samples were analyzed for zinc and copper.

Values for each element are plotted on the accompanying maps at a scale of 1:2500. Gold is plotted as ppb, copper and zinc are plotted as ppm.

### GOLD

-----

Values range from <5 to >1000ppb (0.256 oz/ton on check assay). The higher value represents obvious contamination from the Straw Lake Beach Mine tailings.

Gold values as plotted are not amenable to contouring because of the high number of no-soil locations. Instead, a symbol map is presented with the following divisions, 20-30ppb:31-40ppb:41-50ppb:51-60ppb:61-70ppb:71-80ppb:81-90ppb:91-100ppb:100-110ppb:111-120ppb:121-130ppb and >131ppb.

Gold values are erratic, forming many areas with "bullseye" anomalies and only several anomalous "zones". The anomalous "zone" that occurs from L6+00W to L11+00W north of BL00 is a result of contamination at the Straw Lake Beach Mine-Site and tailings area. Weakly anomalous "zones" occur between L23+00E and L26+00E from 9+00S to 13+00S and on L32+00E from 2+50S to 4+50S.

### COPPER-ZINC

-----

No copper or zinc anomalies of significance were found on the property. The raw data is plotted on the accompanying maps at a scale of 1:2500. The

range of values are as follows:

Cu 2 - 156ppm  
Zn 14 - 685ppm

#### ORGANIC SURVEY

-----

Humus samples were taken at stations with poor to no-soil development. Samples of decayed or decaying "forest litter" were collected by "scooping" with a grub hoe or hand. Samples were taken from the A-horizon immediately below actively growing vegetation.

All samples were analyzed for gold by the neutron activation method at Nuclear Activation Services Limited, Hamilton, Ontario.

Data is plotted at a scale of 1:2500 on the accompanying maps. Results are presented as a symbol map in the same manner as for the gold-soil survey with divisions at 5ppb between 10ppb and 64ppb. The range of values is from <1 to 17000ppb at the mine site (contamination).

As with the gold-soil survey results are erratic with many isolated high values. Two anomolous "zones" are the Straw Lake Beach Mine-area and L32+00E from 3+00S to 6+50S

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IP/RESISTIVITY SURVEY  
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I.P. SURVEY

An induced polarization/resistivity survey totaling 33.55 km was completed on the Straw Lake Property by Mertens & MacNeil Geophysical Ground Surveys Ltd.

The survey was performed with a McPhar IP unit. The configuration used was dipole-dipole utilizing frequencies of 0.3Hz and 5.0Hz. Dipole spacing was 25m for N=4.

DATA PRESENTATION

The data is presented in three formats:

- 1) pseudo-sections for each line showing apparent resistivity, metal factor and frequency effect. Scale is 2cm=25m.
- 2) filtered and contoured plan maps of frequency effect at 1:2500
- 3) filtered and contoured plan maps of apparent resistivity at 1:2500

Filtering for 2 and 3 was performed as follows:

PSEUDO-SECTION REPRESENTATION OF FREQUENCY EFFECT

	3+25	3+50	3+75	4+00	4+25	4+50	4+75	
	-----T-----T-----T-----T-----T-----T-----T-----T-----T							
N1	1.1	2.0	3.2	1.1	3.2	2.1	1.1	1.9
N2	2.1	1.1	2.2	1.0	0.9	2.1	2.1	2.9 3.8
N3	1.0	1.2	1.1	2.3	3.4	5.6	4.4	3.0 1.1
N4	1.0	0.8	3.0	0.1	0.9	2.3	3.2	2.3 1.1

	3+75	4+00	4+25	
	T-----T-----T			
N1		3.2		
N2		1.0	0.9	
N3		2.3	3.4	5.6
N4	3.0	0.1	0.9	2.3

FILTERED VALUE =  $[3.2 + [(1.0 + 0.9) / 2] + [(2.3 + 3.4 + 5.6) / 3] + [(3.0 + 0.1 + 0.9 + 2.3) / 4]] / 4$   
 The plotting point is 4+12.5  
 The filtered value is 2.4 . This procedure is then performed for each station.



The filter can be performed on frequency effect, metal factor and apparent resistivity. On the accompanying maps filtered frequency effect is plotted to the right of the station and filtered apparent resistivity is plotted to the left of the station. One set of maps is presented with contoured frequency effect and one set of maps is presented with contoured apparent resistivity

INTERPRETATION

This interpretation is based on the filtered frequency effect plan map. The IP survey delineated nine strongly anomalous zones. Three anomalies are coincident with VLF-EM anomalies the other six have no VLF-EM response.

ANOMOLY LOCATION		VLF-EM	STRENGTH
17+00W	9+00S - 10+50S	NO	10.95
16+00W - 10+00W	NORTH OF BL00	NO	8.5
7+00W - 2+50W	ALONG BL00	YES	8.6
4+00E - 10+00E (OPEN)	ALONG BL00	YES	10.9
4+00E - 9+00E	1+00S	YES	12.1
22+00E - 23+00E	6+50S	FLANKS	8.4
20+00E	8+25S - 9+00S	NO	9.1
19+00E - 20+00E (OPEN)	9+00S - 11+00S	NO	12.0
20+00E	13+00S - 14+00S	NO	10.1

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I.P. SURVEY AREA

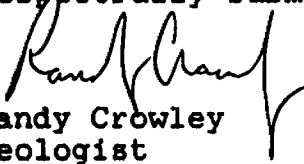
L0+00	4+25S	4+25N	950m
L1+00E	5+25S	4+75N	1000m
L2+00E	5+25S	5+25N	1050m
L3+00E	5+00S	6+25N	1125m
L4+00E	4+75S	5+75N	1050m
L5+00E	4+50S	5+50N	1000m
L6+00E	4+25S	4+75N	900m
L7+00E	1+75S	4+50N	625m
L8+00E	2+25S	2+75N	500m
L9+00E	4+50S	7+75N	1225m
L10+00E	1+75S	4+25N	600m
L19+00E	14+50S	5+00N	950m
L20+00E	15+00S	5+00S	1000m
L21+00E	15+00S	5+00S	1000m
L22+00E	15+00S	5+25S	975m
L23+00E	15+25S	5+00S	1025m
L24+00E	15+25S	5+00S	1025m
L25+00E	15+50S	5+00S	1050m
L26+00E	15+50S	5+00S	1050m
L28+00E	14+50S	0+50S	1400m
L30+00E	13+50S	BL 00	1350m
L32+00E	14+25S	0+25S	1400m

L1+00W	3+75S	4+00N	775m
L2+00W	3+75S	4+00N	775m
L3+00W	3+75S	3+75N	750m
L4+00W	4+25S	3+25N	750m
L5+00W	9+50S	6+50S	300m
	4+50S	3+50N	800m
L6+00W	5+00S	3+25N	825m
L7+00W	5+75S	3+25N	900m
L8+00W	5+75S	3+50N	925m
L8+50W	0+50N	3+25N	275m
L9+00W	0+50N	3+25N	275m
L10+00W	0+50N	3+25N	275m
L10+50W	0+50N	3+25N	275m
L11+00W	0+50N	3+00N	250m
L12+00W	BL 00	3+25N	325m
L13+00W	0+25N	3+50N	325m
L14+00W	0+25N	3+25N	300m
L15+00W	0+25N	3+50N	325m
L16+00W	0+25N	2+75N	250m
	14+50S	9+25S	525m
L17+00W	13+75S	8+75S	500m
L18+00W	13+50S	10+25S	325m
L19+00W	14+00S	11+25S	275m

TOTAL 33.55km

This report was prepared by Randy Crowley for Sparton Resources Inc.

Respectfully submitted



Randy Crowley  
Geologist

June 26/1984.

63.4320

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4 Geology Maps.

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8 ULF-EM

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8 May Maps

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APPENDIX E

3 Filtered Resistivity  
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APPENDIX F

3 Filtered Permeability  
(not continued)



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SUMMARY REPORT  
APPENDIX G

4 Soil Analysis  
GOLD (ppb)  
- 2 west grids

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APPENDIX H

4 Soil Geochem - COPPER (ppm)  
2 west sheets

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APPENDIX I

4 Soil Geochem ZINC (ppm)

2 West Sheets

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4 Hammer Geochem - GOLD (ppb)  
- 2 West Sheets.

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SUMMARY REPORT  
APPENDIX D

SPARTON RESOURCES INC.

STRAW LAKE PROJECT

I.P. SURVEY  
COVERAGE

L0+00	4+25S	4+25N	950m
L1+00E	5+25S	4+75N	1000m
L2+00E	5+25S	5+25N	1050m
L3+00E	5+00S	6+25N	1125m
L4+00E	4+75S	5+75N	1050m
L5+00E	4+50S	5+50N	1000m
L6+00E	4+25S	4+75N	900m
L7+00E	1+75S	4+50N	625m
L8+00E	2+25S	2+75N	500m
L9+00E	4+50S	7+75N	1225m
L10+00E	1+75S	4+25N	600m
L19+00E	14+50S	5+00N	950m
L20+00E	15+00S	5+00S	1000m
L21+00E	15+00S	5+00S	1000m
L22+00E	15+00S	5+25S	975m
L23+00E	15+25S	5+00S	1025m
L24+00E	15+25S	5+00S	1025m
L25+00E	15+50S	5+00S	1050m
L26+00E	15+50S	5+00S	1050m
L28+00E	14+50S	0+50S	1400m
L30+00E	13+50S	BL 00	1350m
L32+00E	14+25S	0+25S	1400m
L1+00W	3+75S	4+00N	775m
L2+00W	3+75S	4+00N	775m
L3+00W	3+75S	3+75N	750m
L4+00W	4+25S	3+25N	750m
L5+00W	9+50S	6+50S	300m
	4+50S	3+50N	800m
L6+00W	5+00S	3+25N	825m
L7+00W	5+75S	3+25N	900m
L8+00W	5+75S	3+50N	925m
L8+50W	0+50N	3+25N	275m
L9+00W	0+50N	3+25N	275m
L10+00W	0+50N	3+25N	275m
L10+50W	0+50N	3+25N	275m
L11+00W	0+50N	3+00N	250m
L12+00W	BL 00	3+25N	325m
L13+00W	0+25N	3+50N	325m
L14+00W	0+25N	3+25N	300m
L15+00W	0+25N	3+50N	325m
L16+00W	0+25N	2+75N	250m
	14+50S	9+25S	525m

L17+00W  
L18+00W  
L19+00W

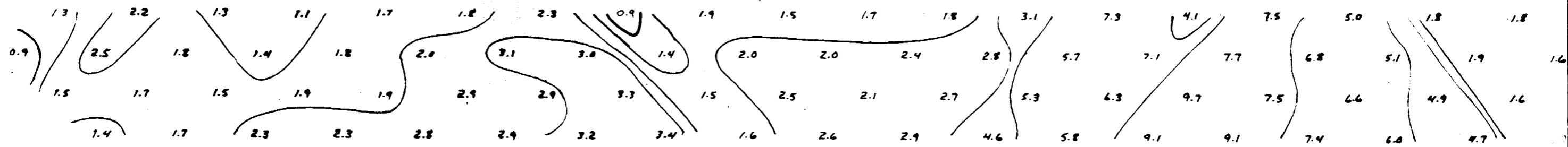
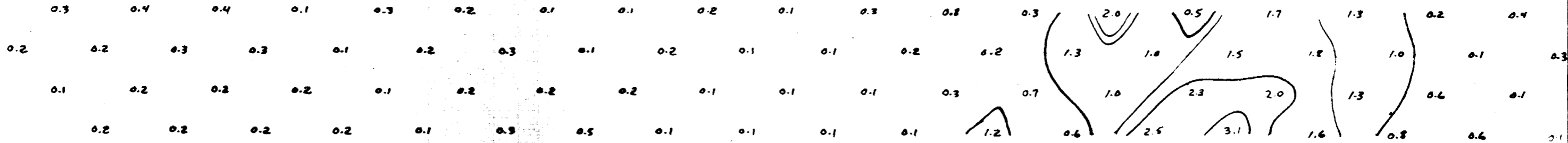
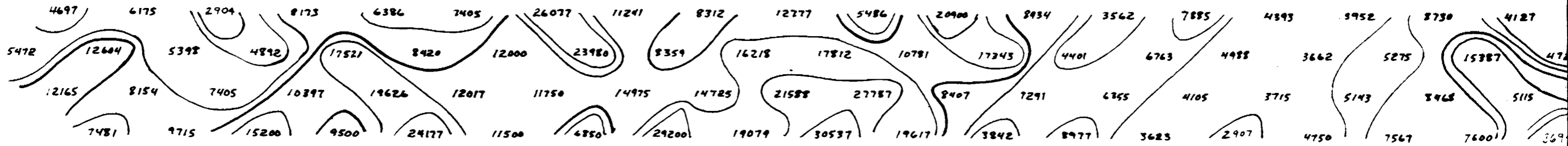
13+75S  
13+50S  
14+00S

8+75S  
10+25S  
11+25S

500m  
325m  
275m

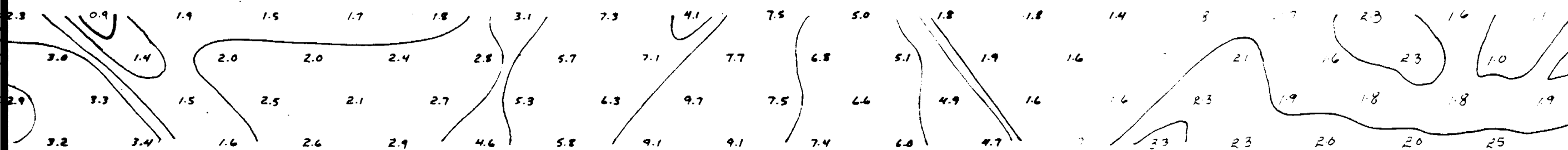
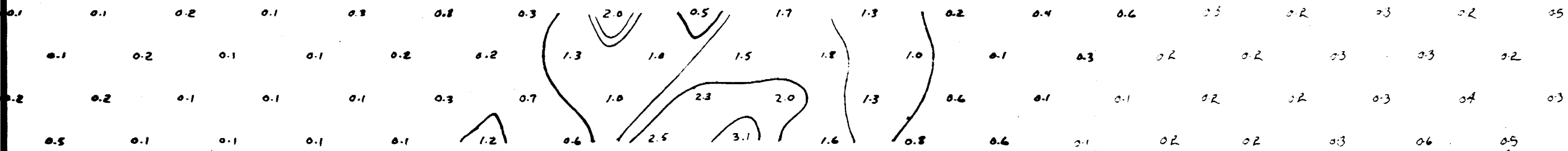
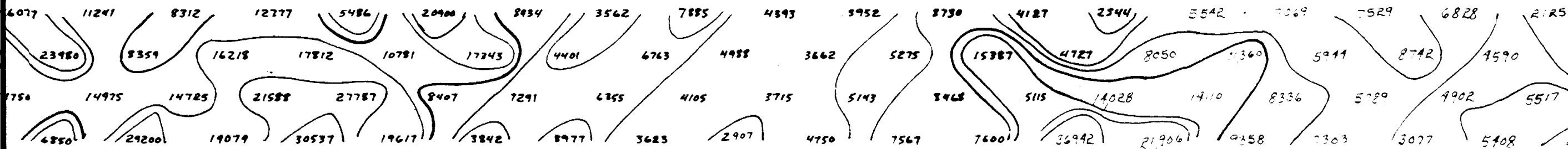
TOTAL 33.55km

4+503 4+253 4+003 3+753 3+503 3+253 3+003 2+753 2+503 2+253 2+003 1+753 1+503 1+253 1+003 0+753 0+503 0+253 0+00 0+25N 0+0

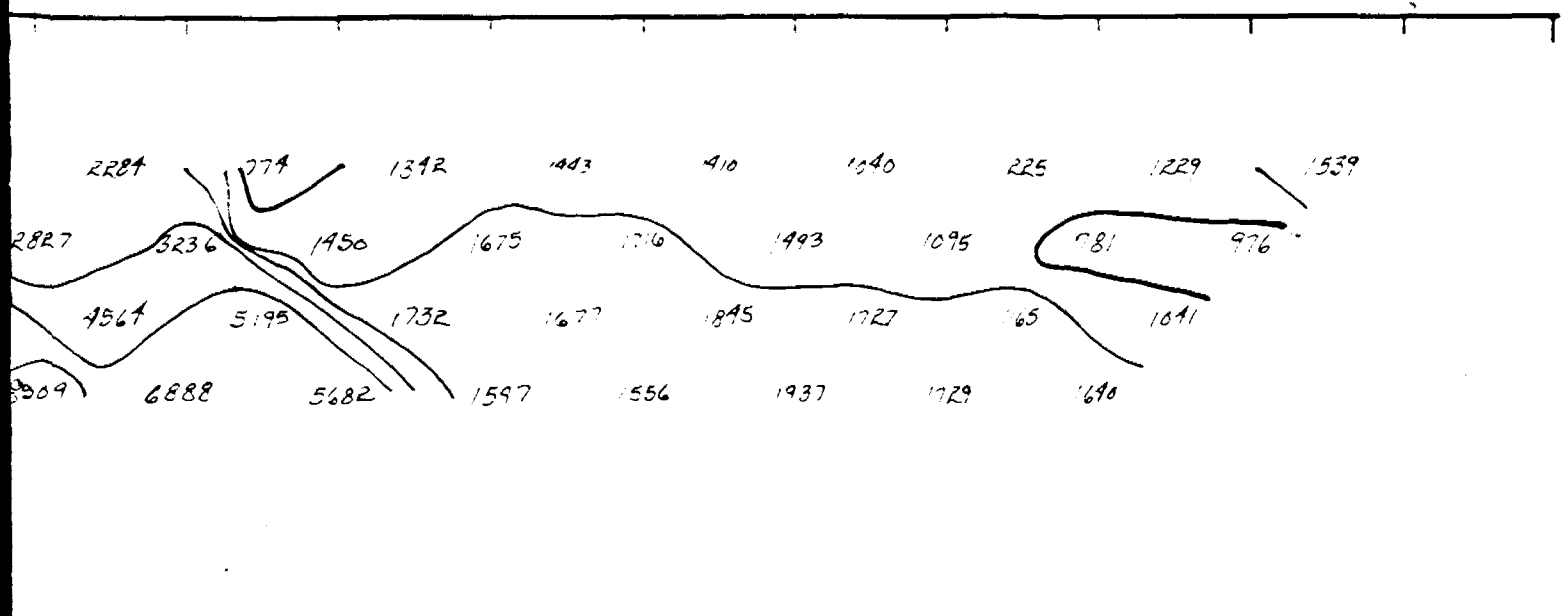




2+50S 2+25S 2+00S 1+75S 1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N



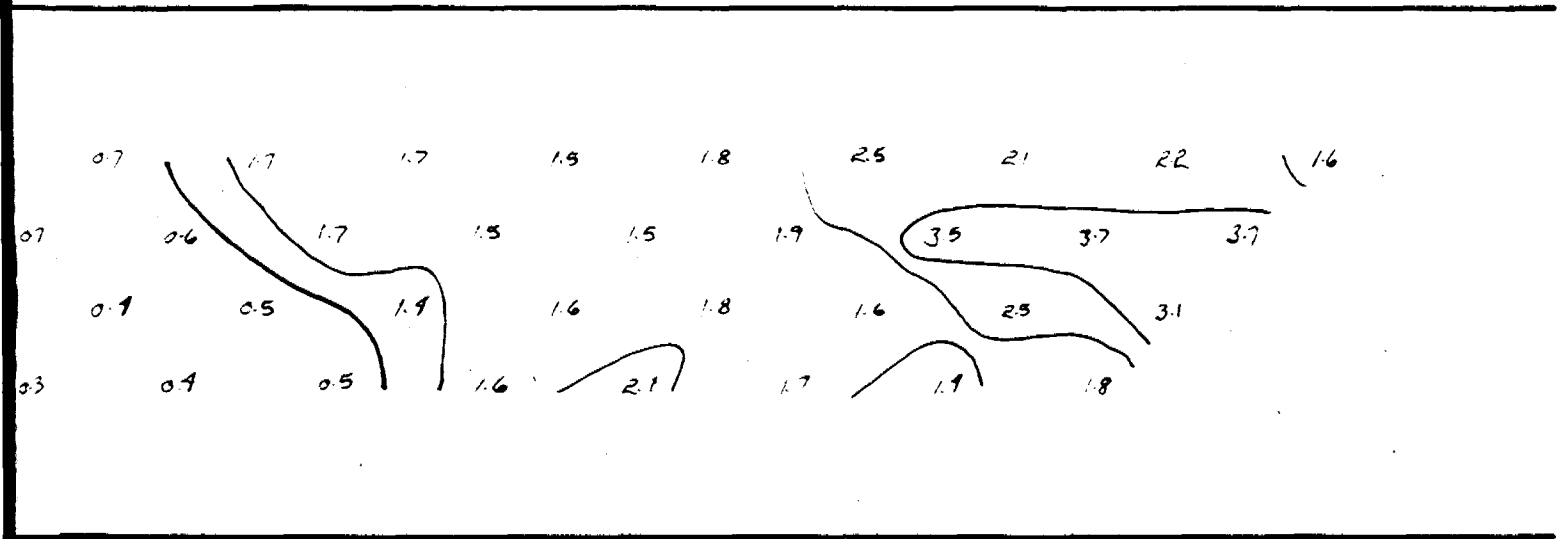
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R₃

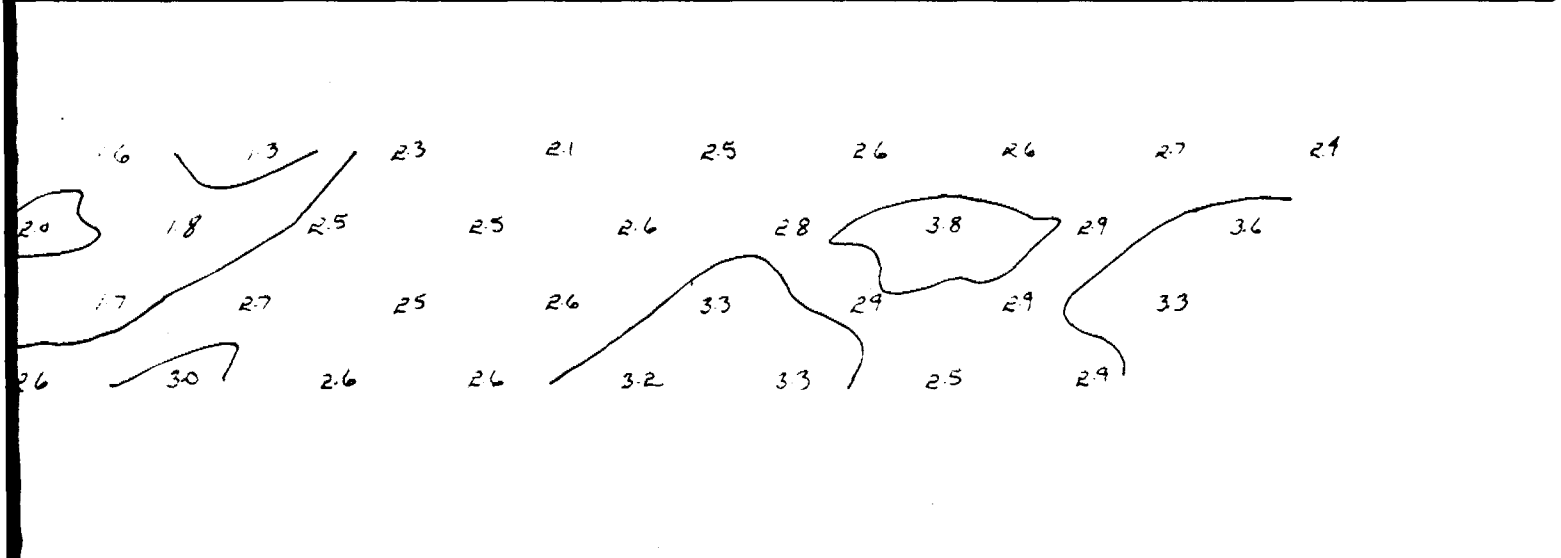
SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)  
 SCALE : 2.0 cm = 25.0m = Electrode Interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE:



M.F.

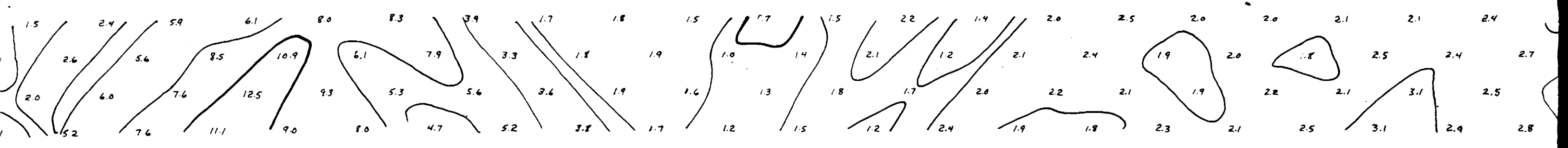
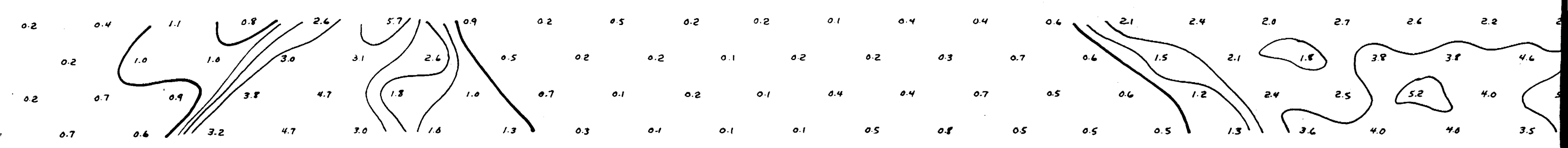
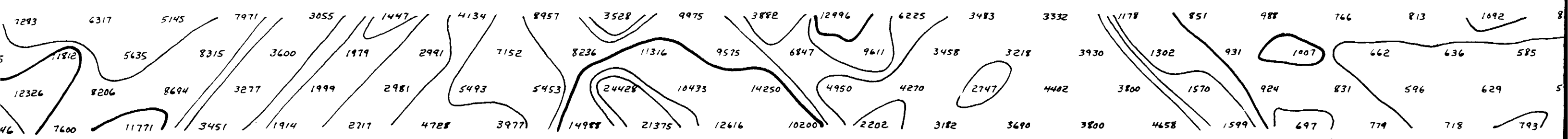
LINE: 0 + 00



F.E.

Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

05 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



3+25N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00N 5+25N 5+50N 5+75N 6+00N

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

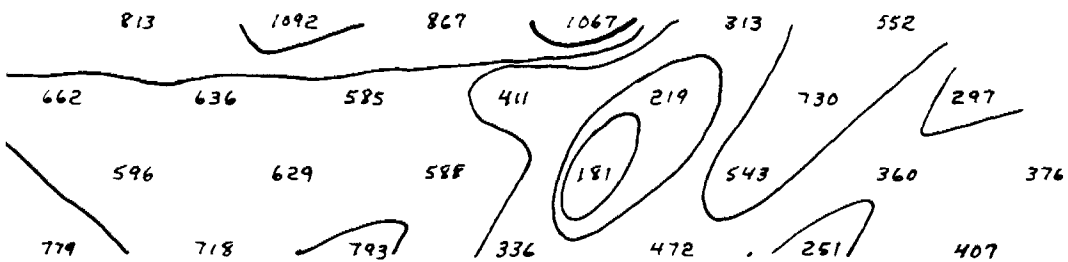
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SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

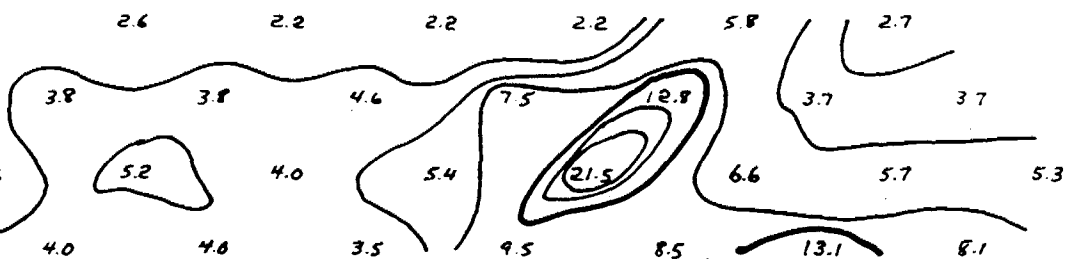
DATE:

e j



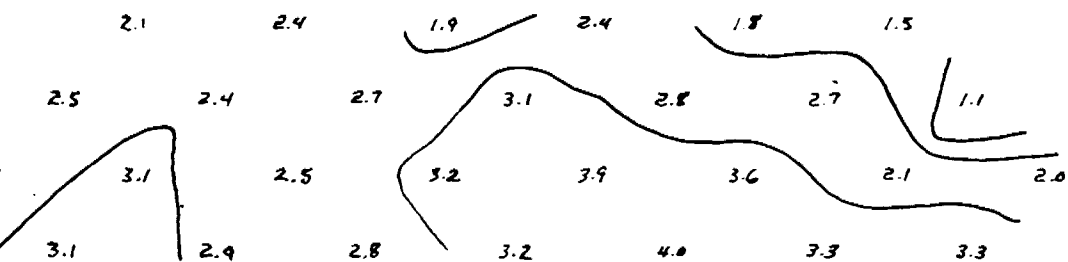
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M.F.

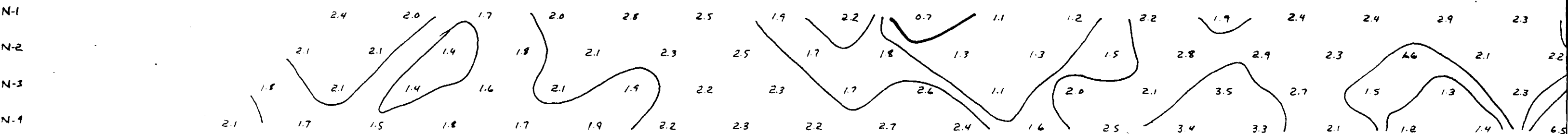
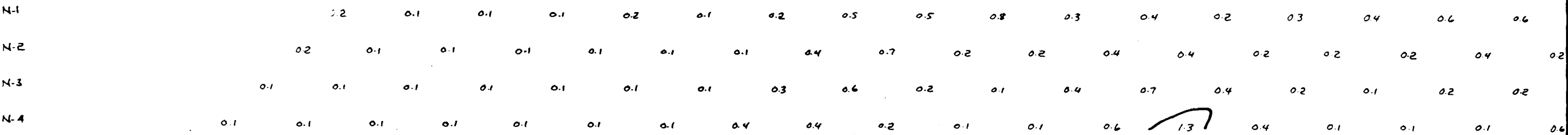
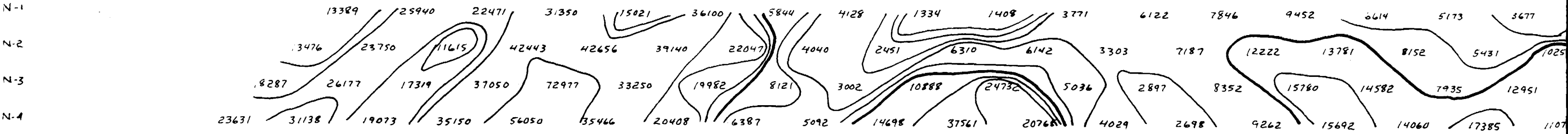


Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

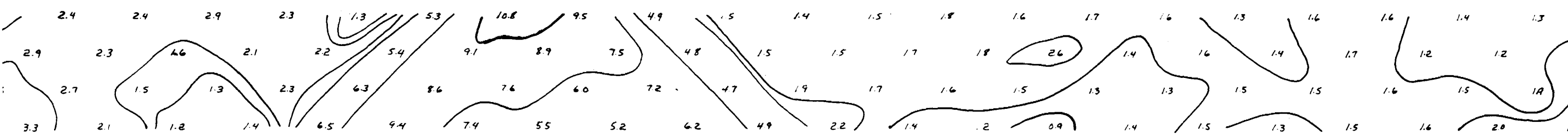
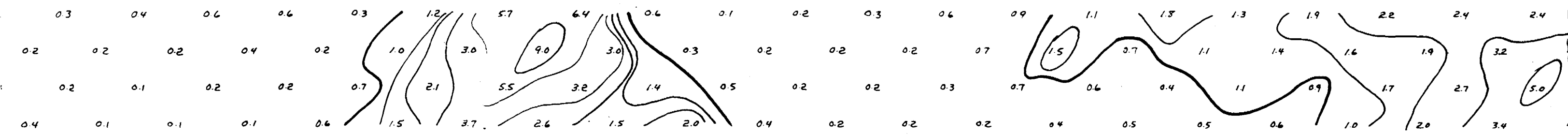
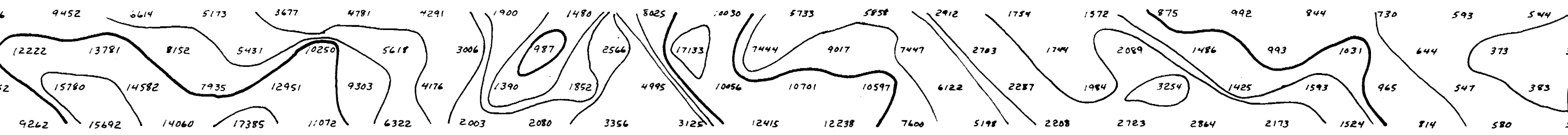
F.E.



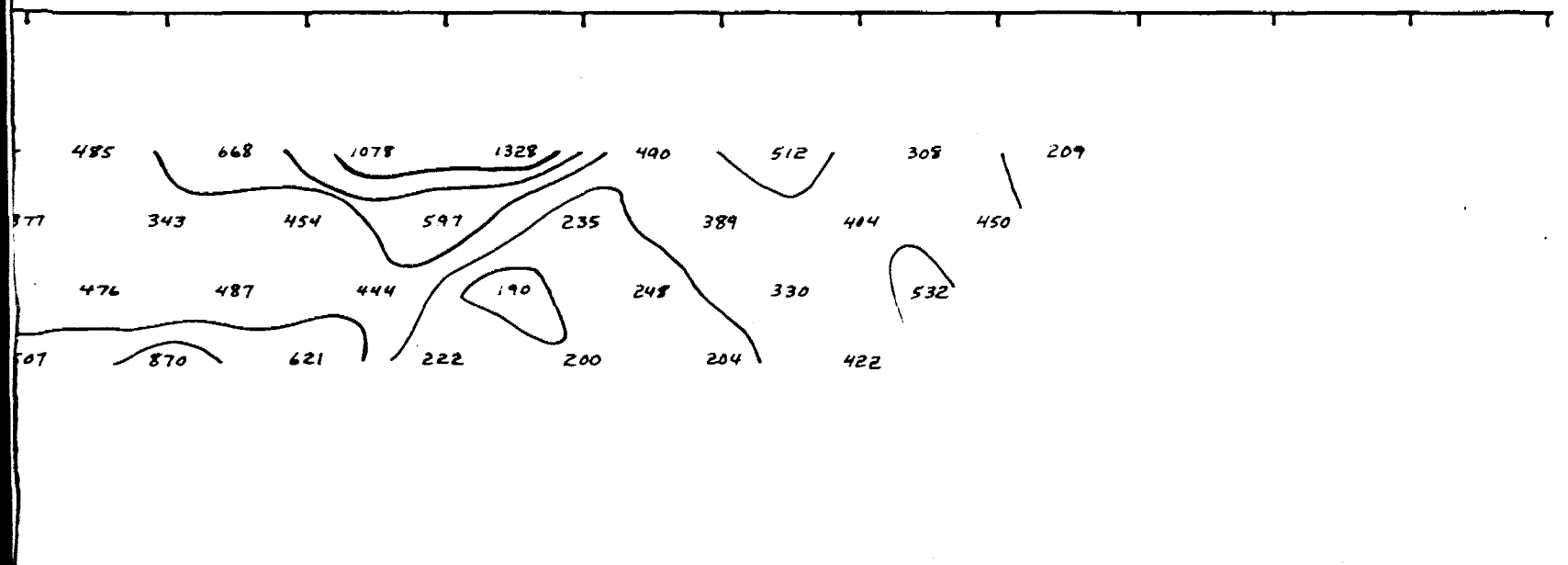
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2+00S 1+75S 1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75S 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N



425N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00N 5+25N 5+50N 5+75N 6+00N



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SPARTON RESOURCES INC

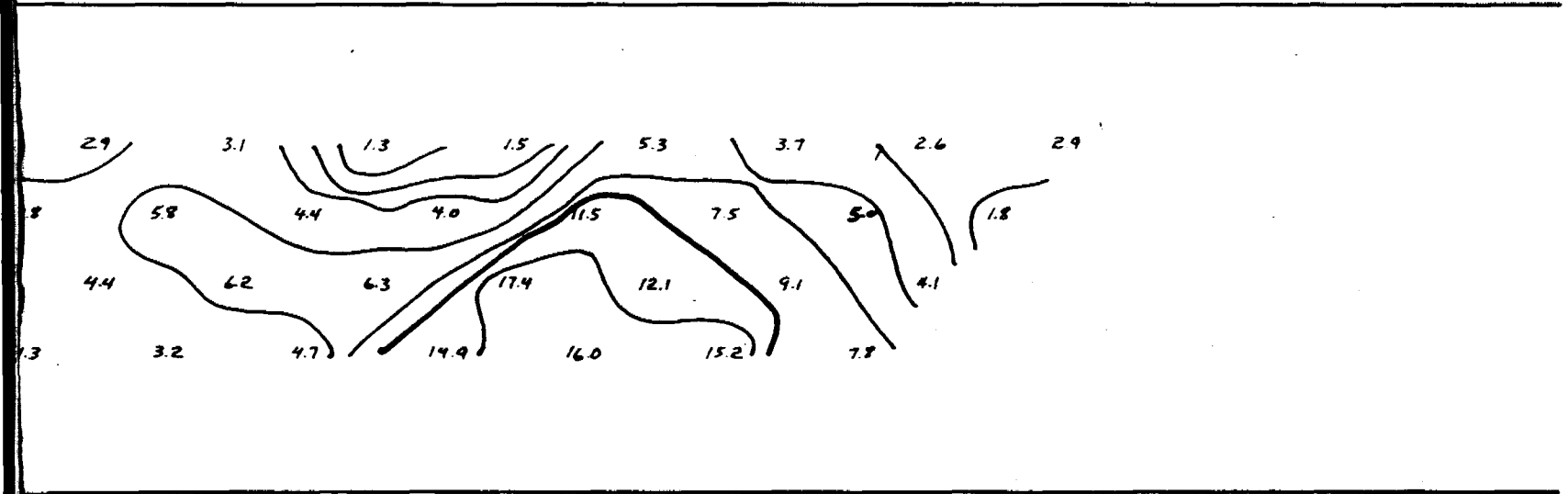
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

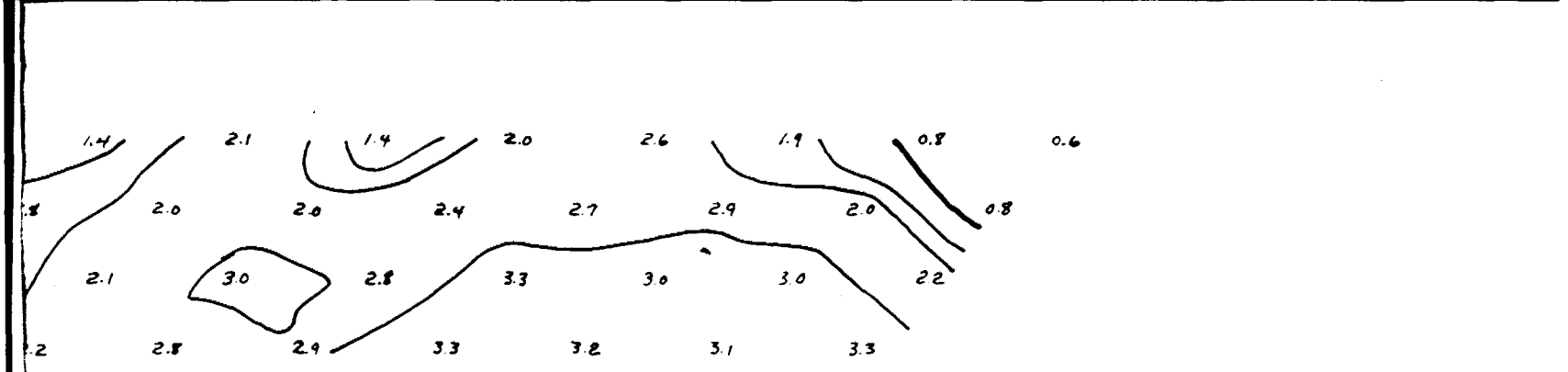
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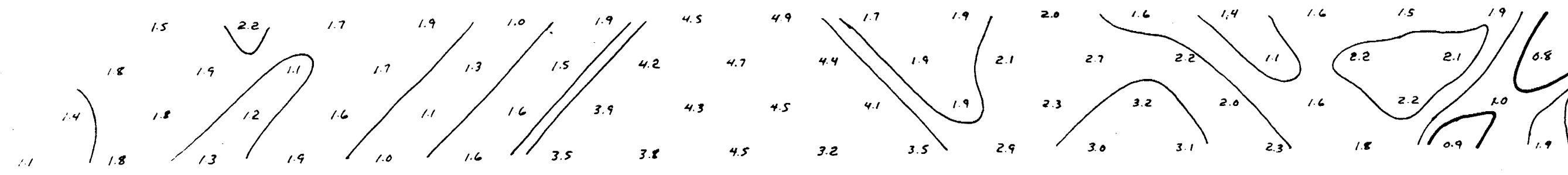
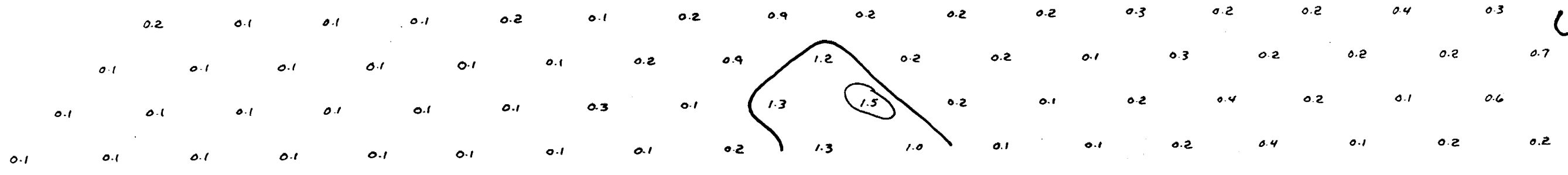
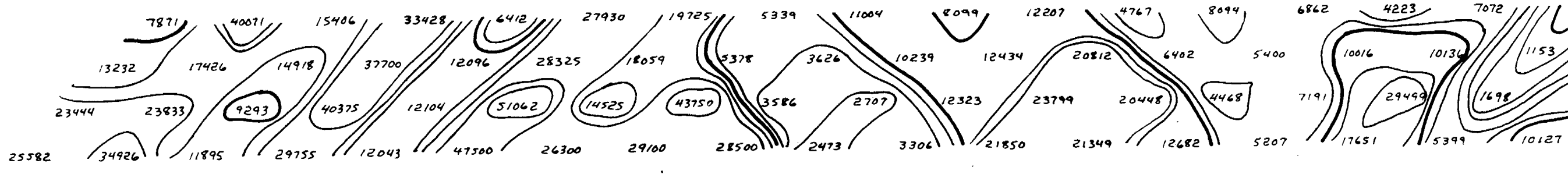
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GEOPHYSICAL GROUND SURVEYS LTD.



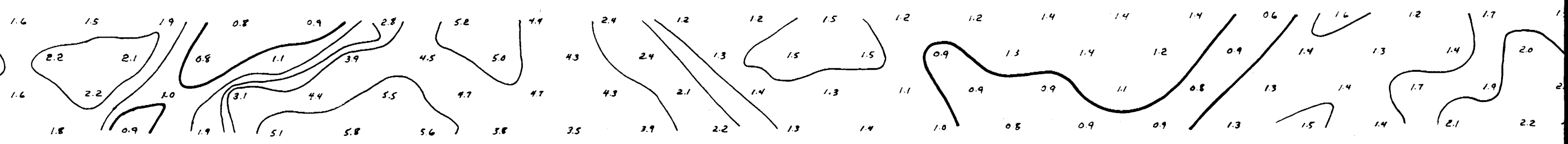
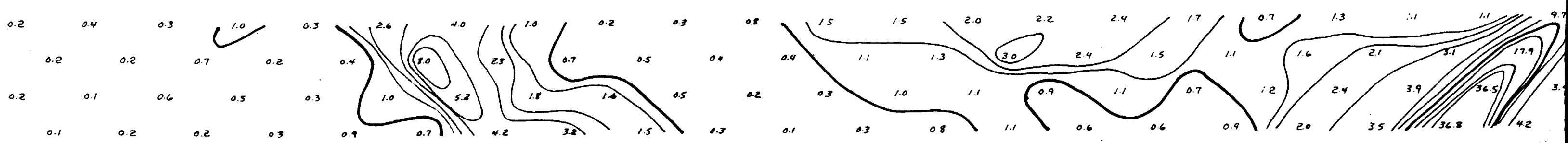
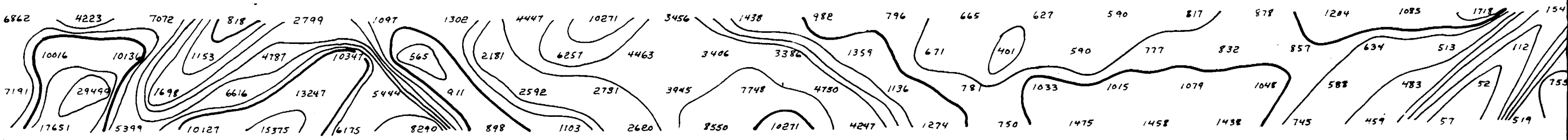
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64005 5475N 54505 54255 54005 44755 44505 44255 44005 34755 34505 34255 34005 24755 24505 24255 24005 14755 14505 14255 14005

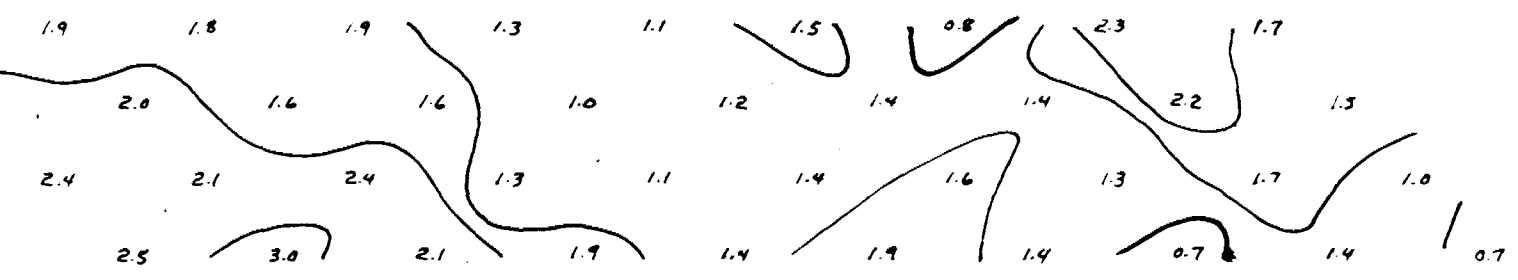
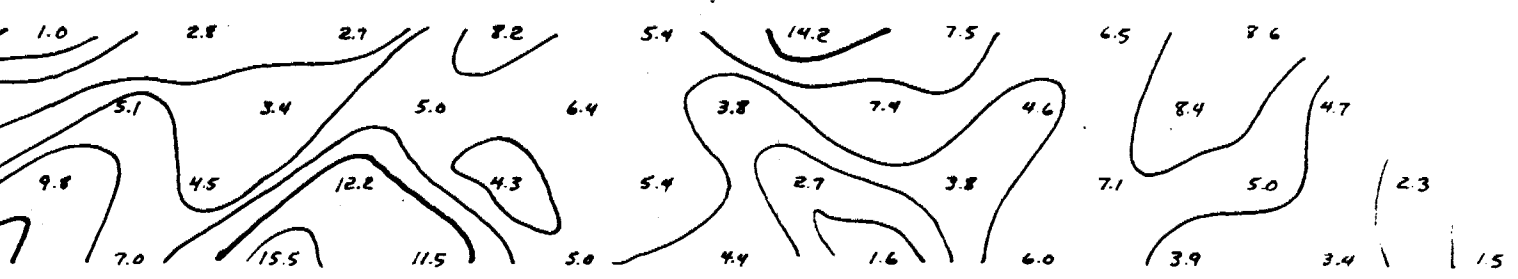
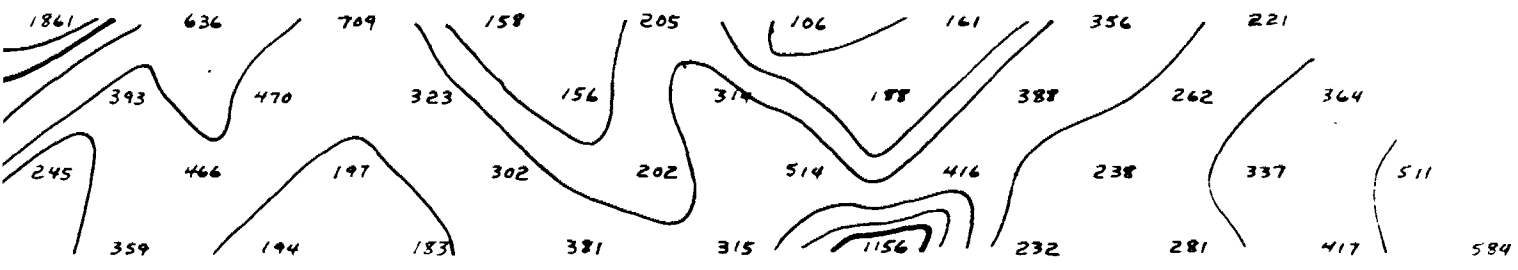




1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N



1N 4+25N 4+50N 4+75N 5+00N 5+25N 5+50N 5+75N 6+00N 6+25N 6+50N 6+75N 7+00N



P 2

SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

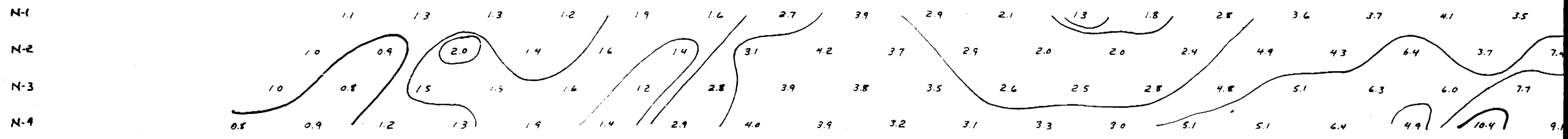
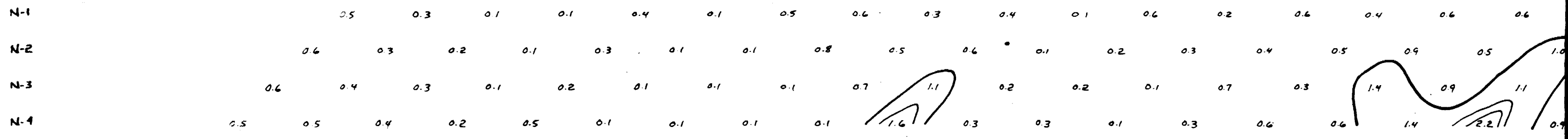
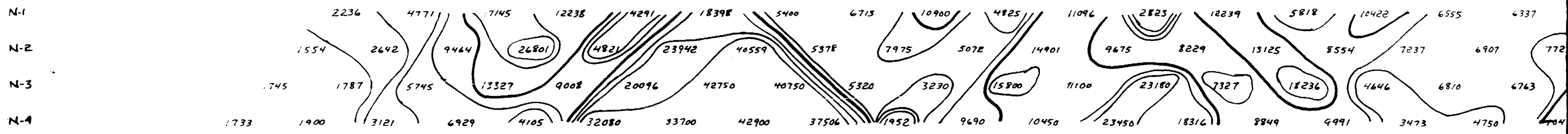
H P I P SURVEY (DIPOLE-DIPOLE)  
SCALE : 2.0 cm = 25.0m = Electrode interval  
FREQUENCIES : 0.3 & 5.0 Hz.  
DATE:

LINE: 3 E  
M.F.

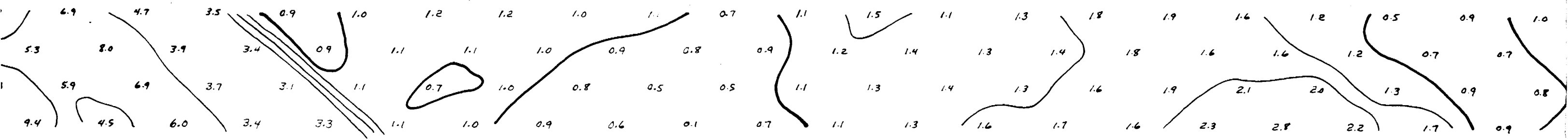
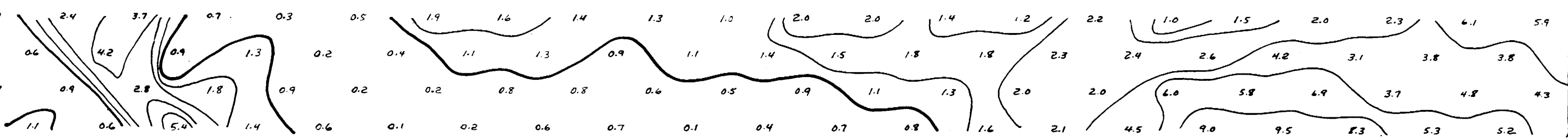
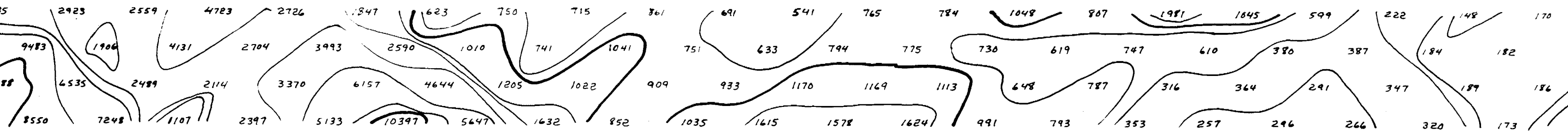
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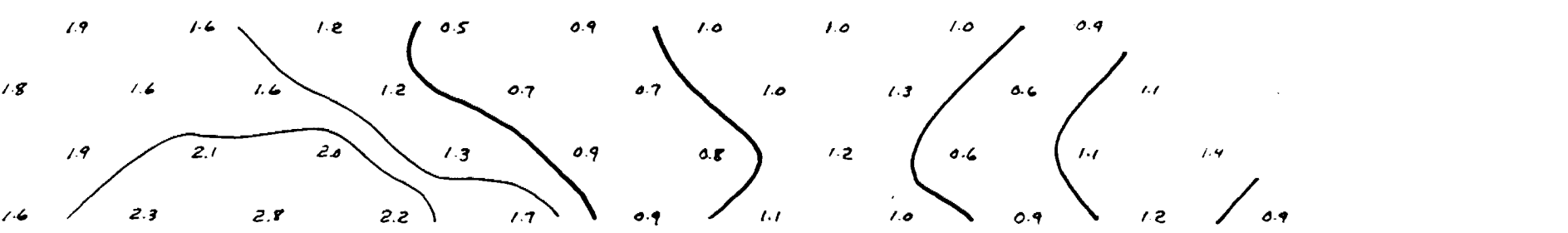
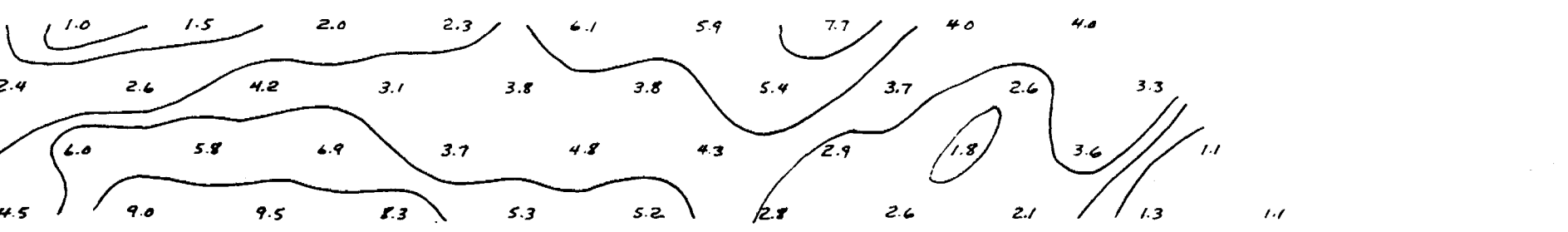
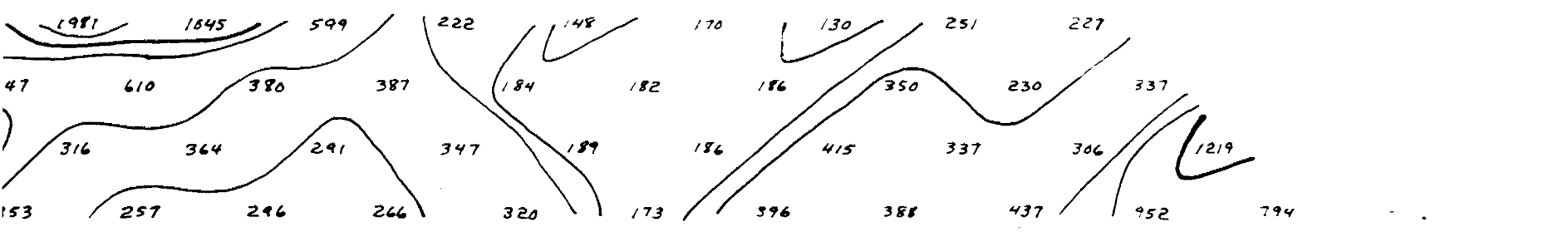
5150S 5125S 5100S 475S 450S 425S 400S 375S 350S 325S 300S 275S 250S 225S 200S 175S 150S 125S 100S 075S 050S



0+55S 0+60 0+85N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5



450N 375N 400N 425N 445N 475N 500N 525N 550N 575N 600N 625N 650N



SPARION RESOURCES INC

STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

Q 3

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

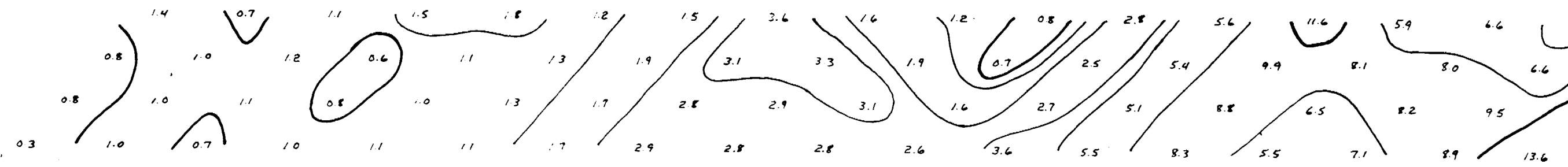
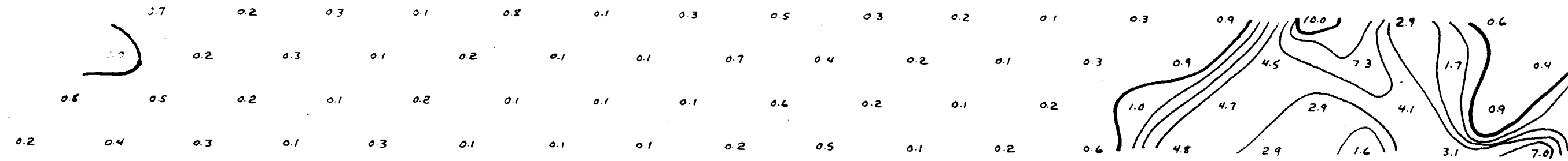
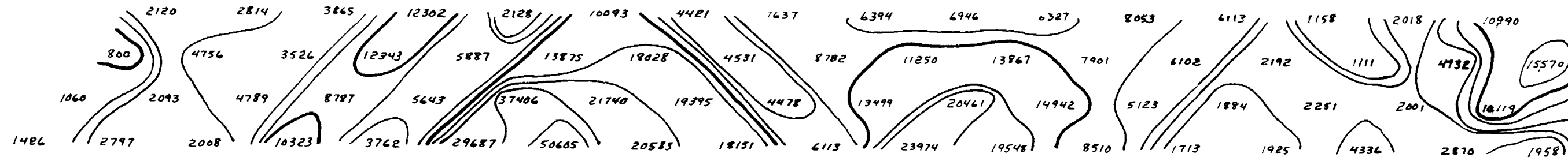
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M.F.

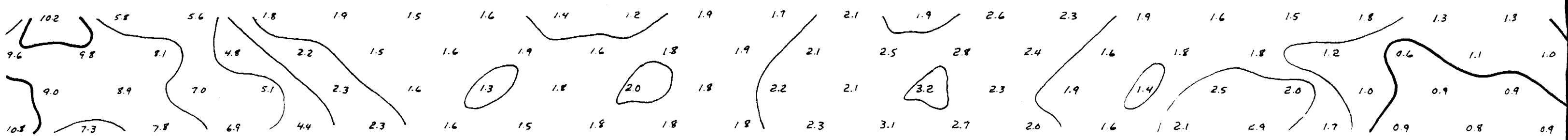
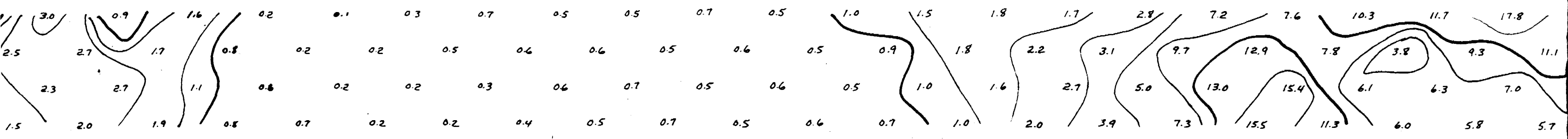
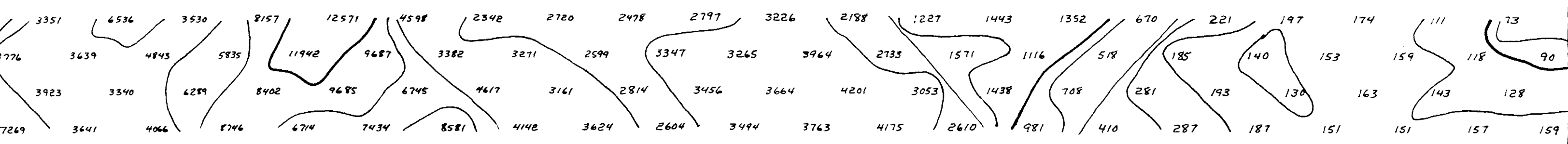
Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

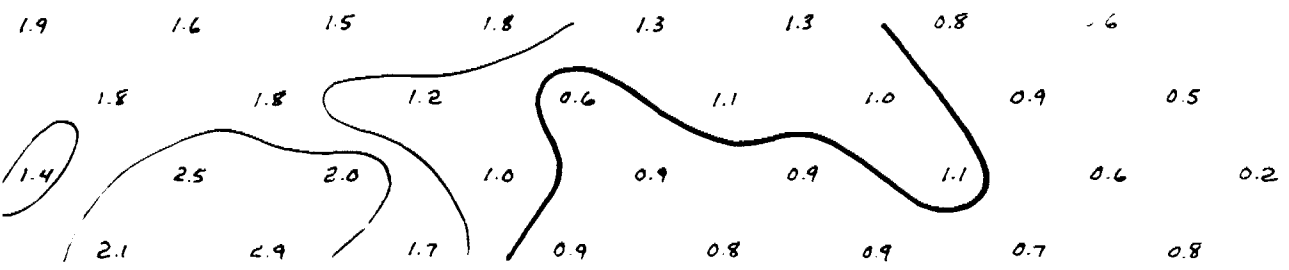
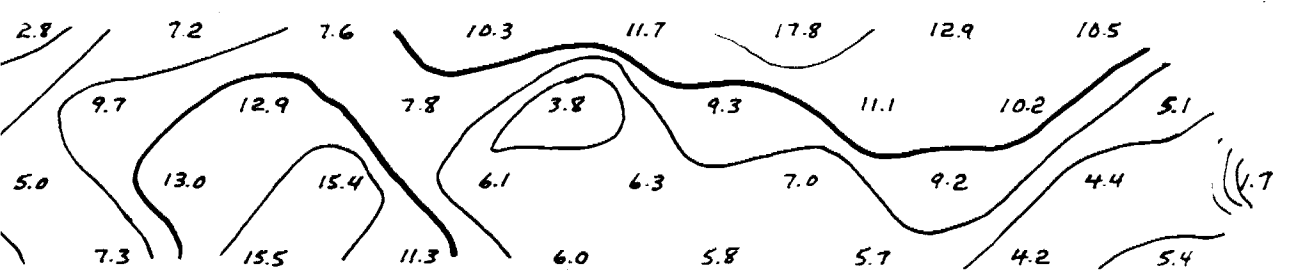
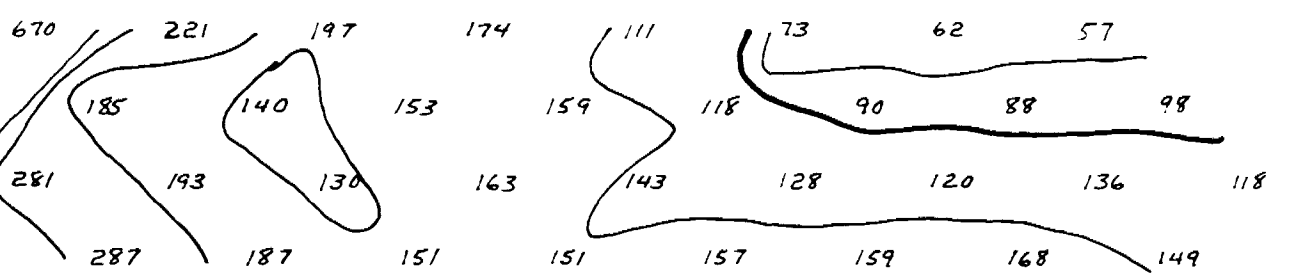
5+505 5+255 5+005 4+755 4+505 4+255 4+005 3+755 3+505 3+255 3+005 2+755 2+505 2+255 2+005 1+755 1+505 1+255 1+005 0+755 0+505



0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00



3+75N 4+00N 4+25N 4+50N 4+75N 5+00N 5+25N 5+50N 5+75N 6+00N 6+25N 6+50N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

Q 3

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

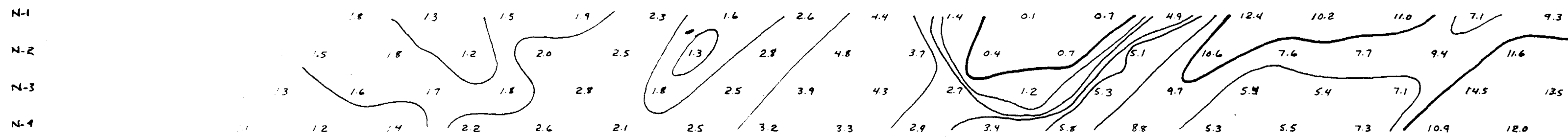
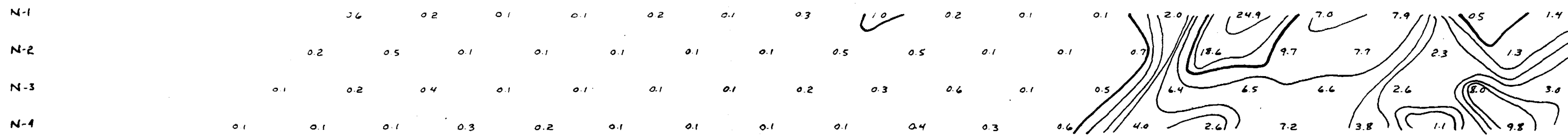
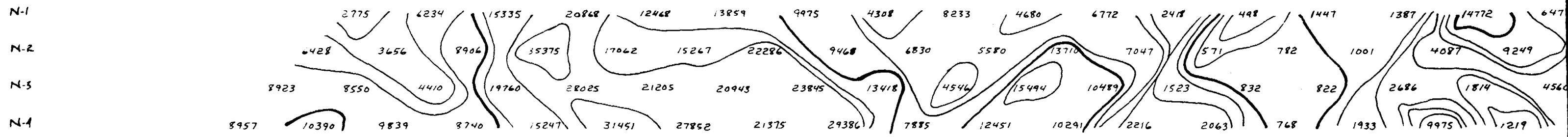
LINE: 5 E

M.F.

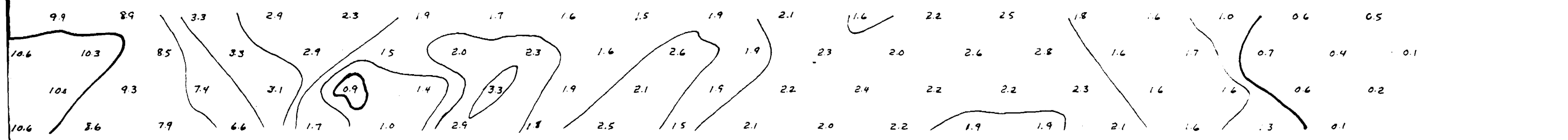
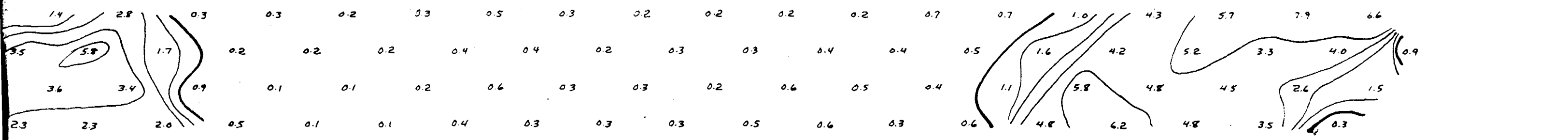
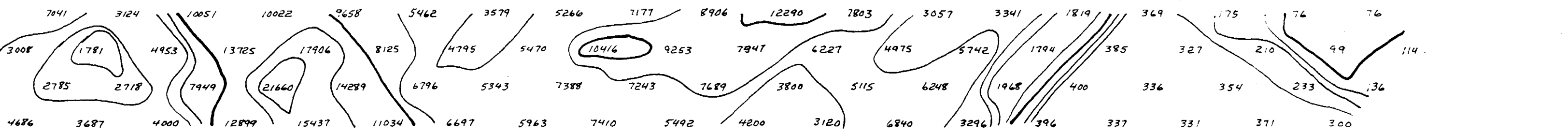
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

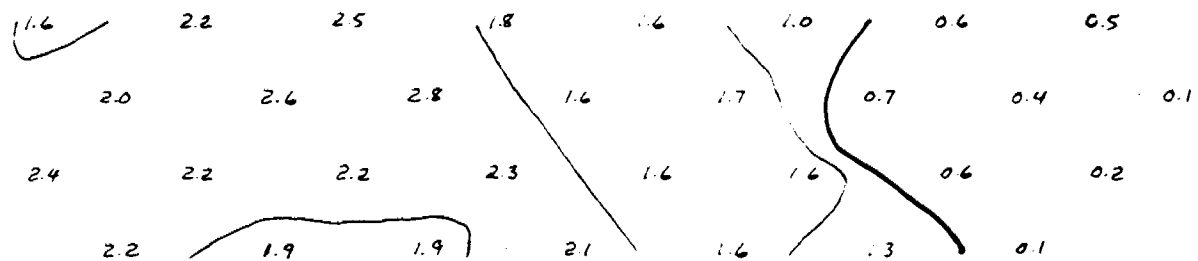
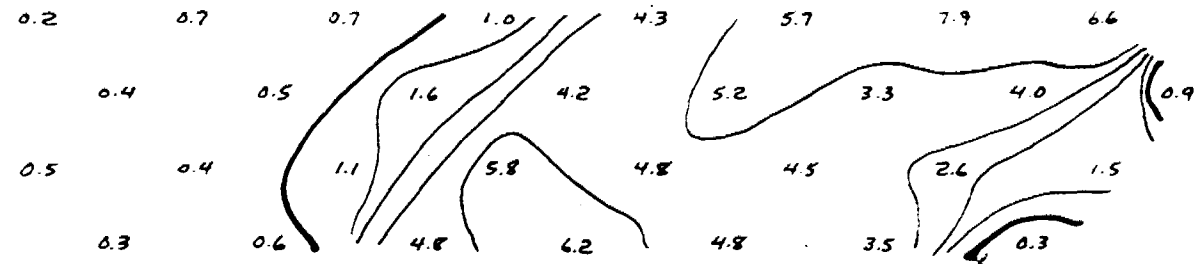
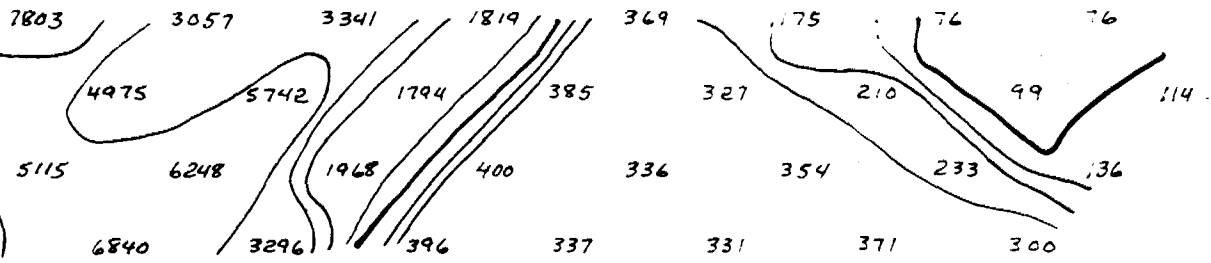




0100 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00N 5+25N



3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00N 5+25N 5+50N 5+75N 6+00N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0 m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

LINE: 6 E

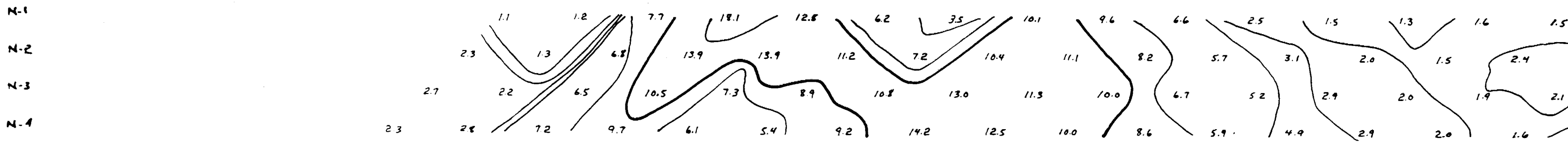
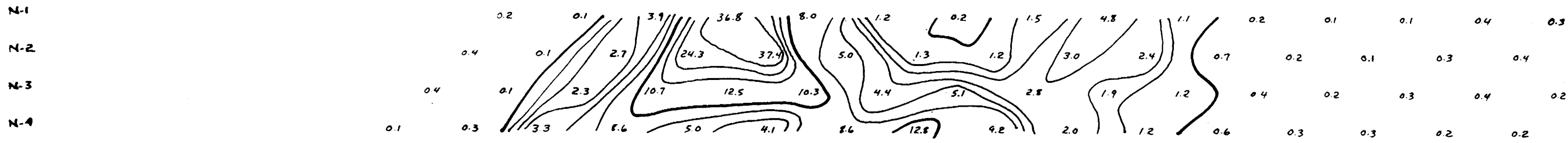
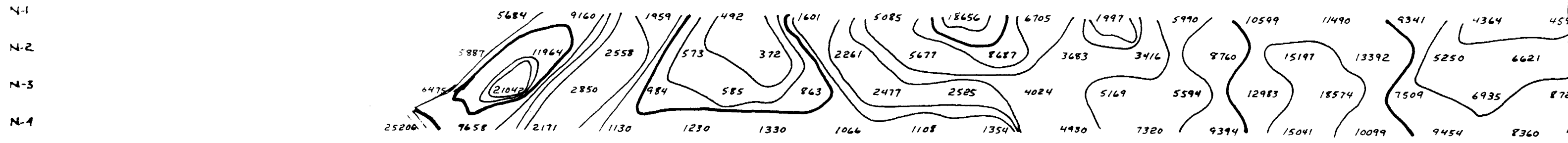
M.F.

Mertens & MacNeil

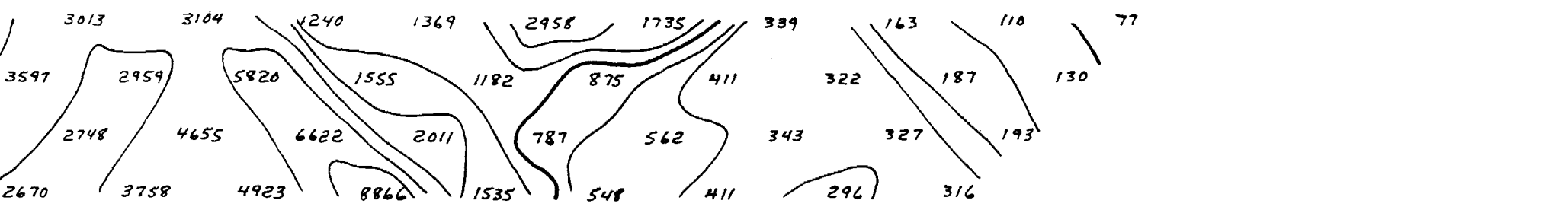
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

3+00S 2+75S 2+50S 2+25S 2+00S 1+75S 1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 NS20 NS40 NS60 NS80 NS100 NS120 NS140 NS160 NS180



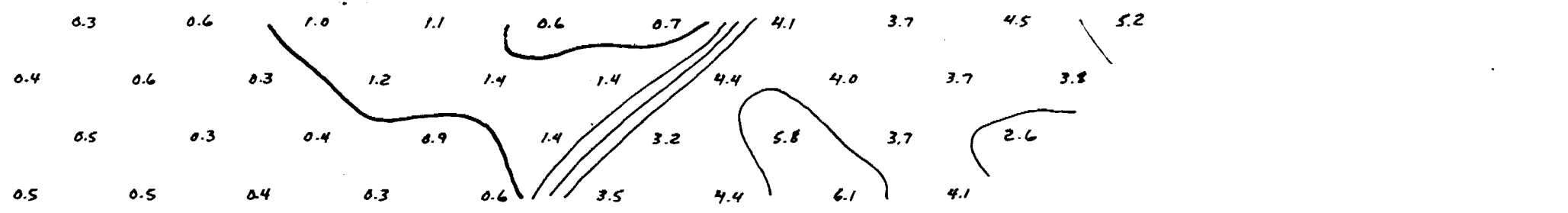
2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50 4+75N 5+00N 5+25 5+50N



e a

SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

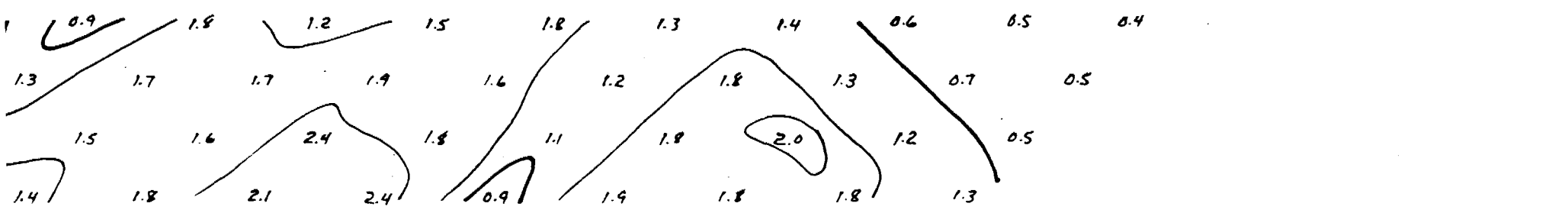
**H P I P SURVEY** (DIPOLE - DIPOLE)  
 SCALE : 2.0 cm = 25.0m = Electrode Interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE:



M.F.

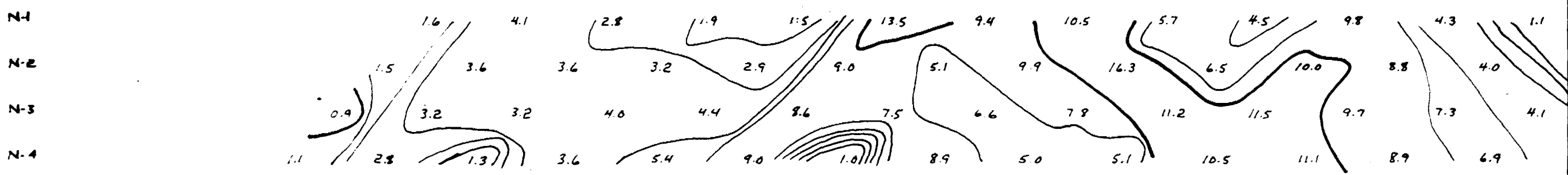
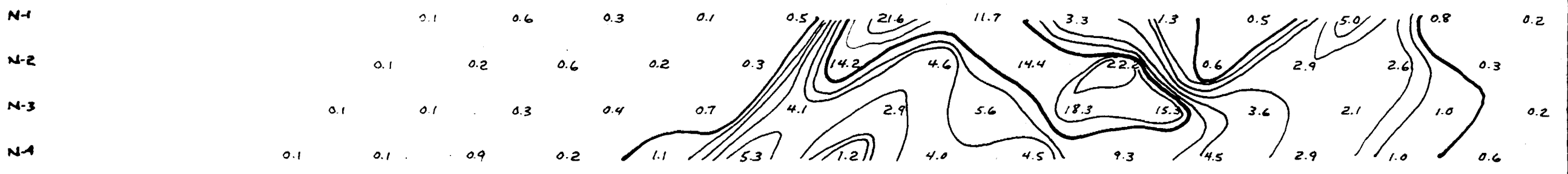
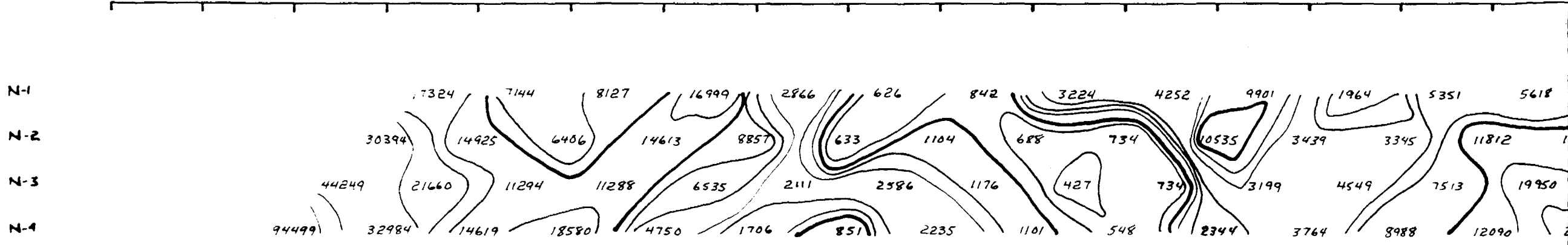
LINE: 7 E

**Mertens & MacNeil**  
 GEOPHYSICAL GROUND SURVEYS LTD.

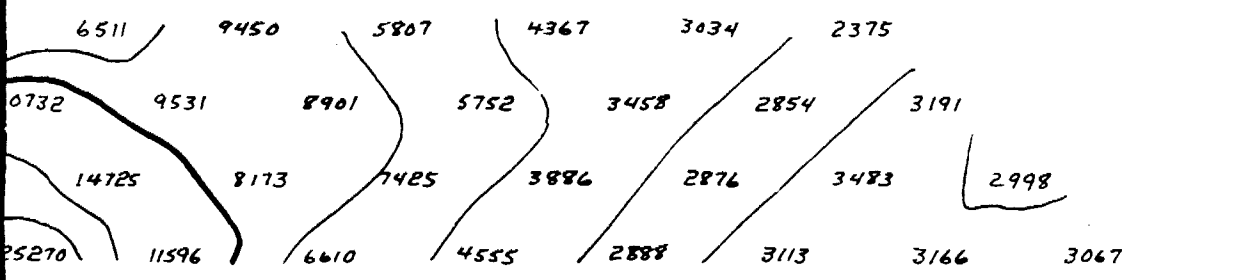


F.E.

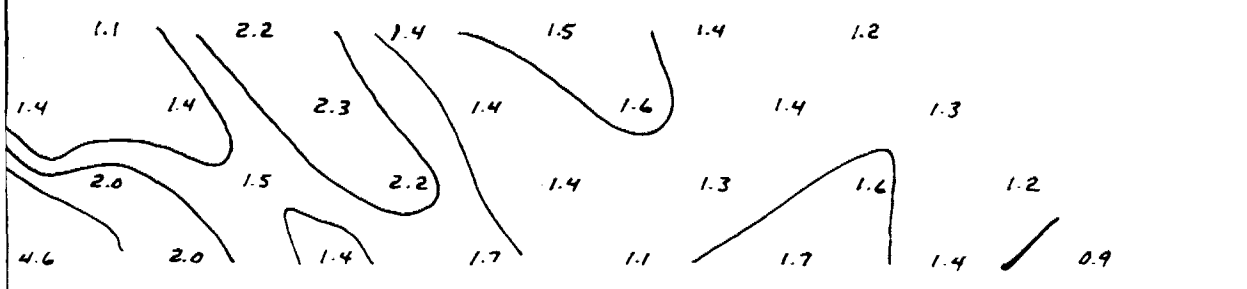
3+00S 2+75S 2+50S 2+25S 2+00S 1+75S 1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N



1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N



0.2	0.2	0.2	0.3	0.5	0.5		
0.1	0.1	0.3	0.2	0.5	0.5	0.4	
0.1	0.2	0.3	0.4	0.5	0.5	0.4	
0.2	0.2	0.2	0.4	0.4	0.5	0.4	0.3



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

LINE: 8 E

M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

3+755

4+005

4+255

4+505

4+755

5+005

5+255

5+505

5+755

6+005

6+255

6+505

6+755

7+005

7+255

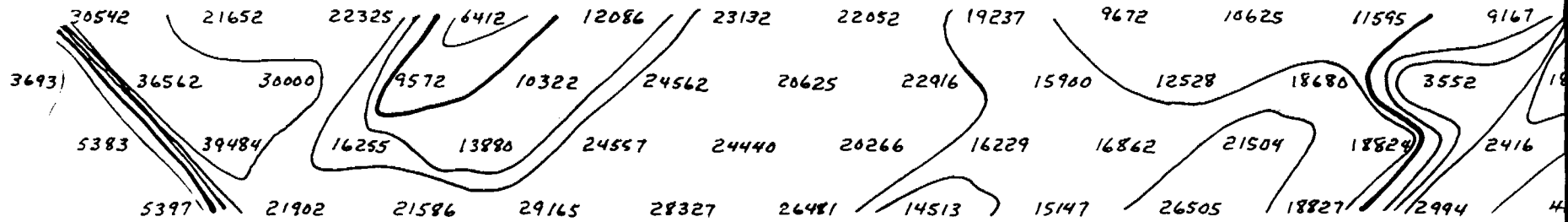
7+505

N-1

N-2

N-3

N-4

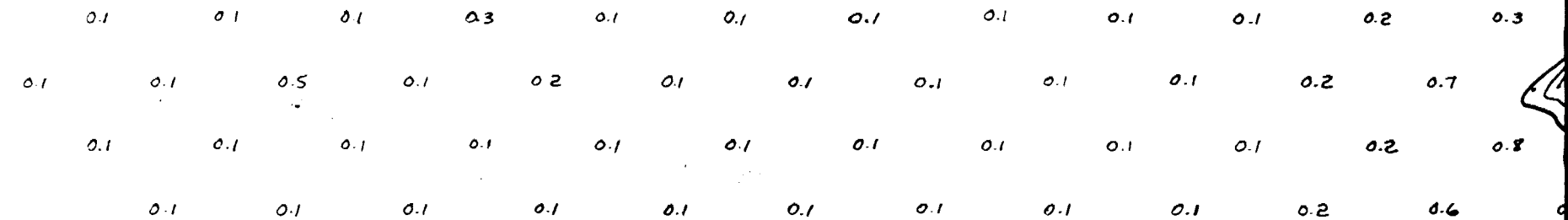


N-1

N-2

N-3

N-4

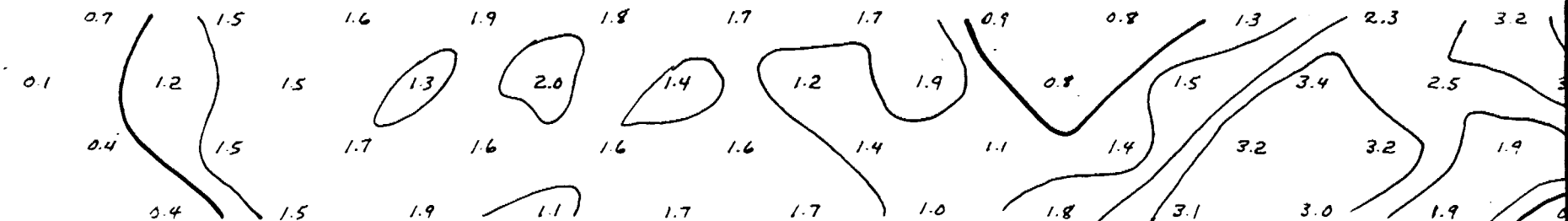


N-1

N-2

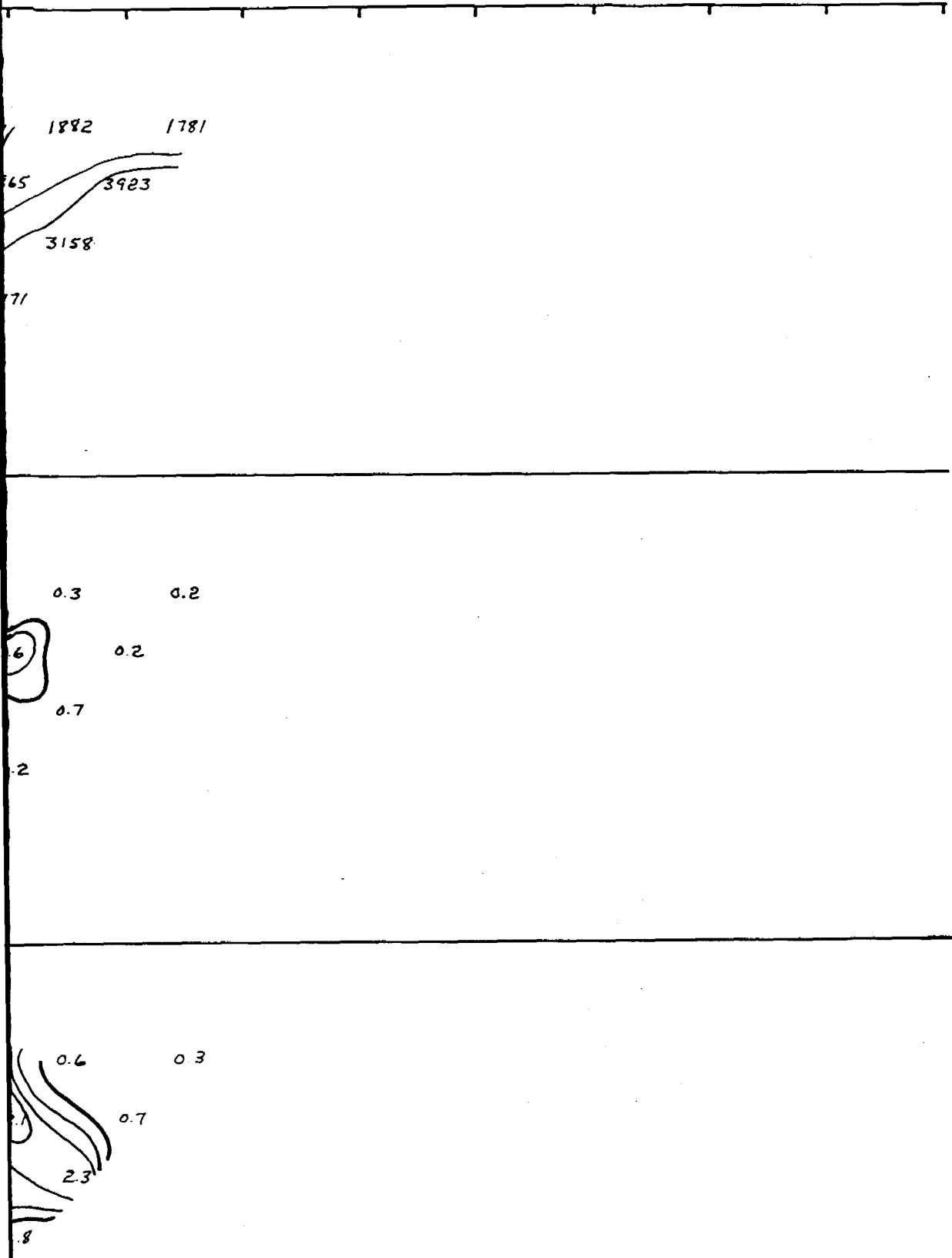
N-3

N-4





7505 7755 8005 8255 8505 8755 9005 9255 9505



93

LYNX CANADA  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

HPIPS SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

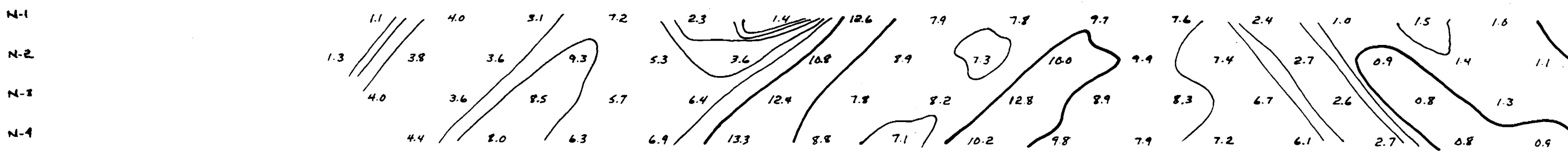
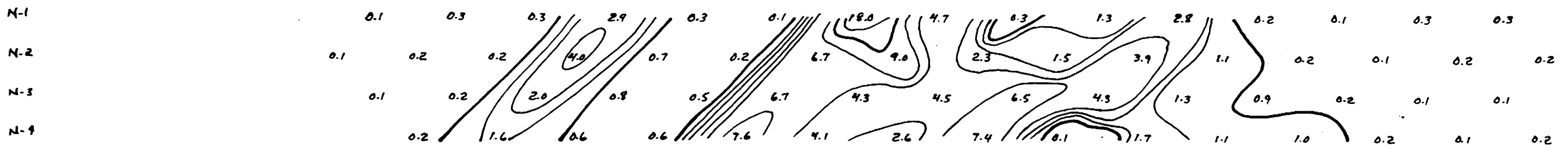
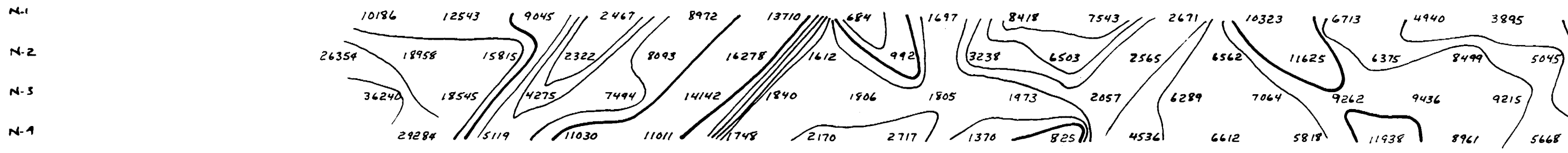
LINE : 9 E

MF

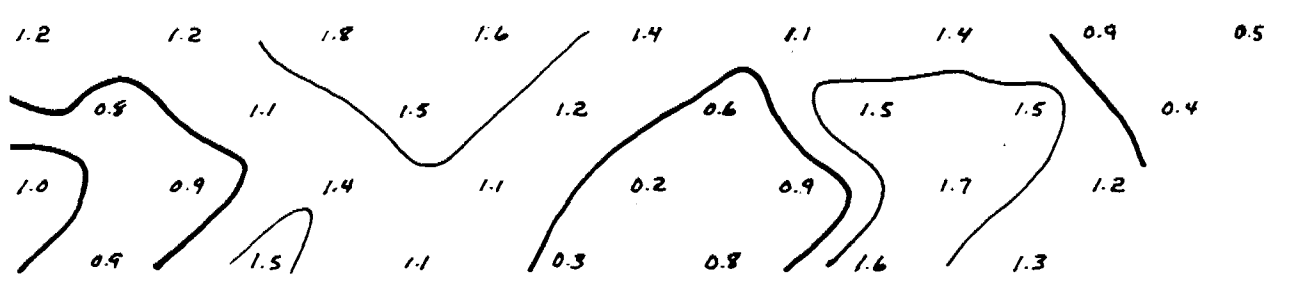
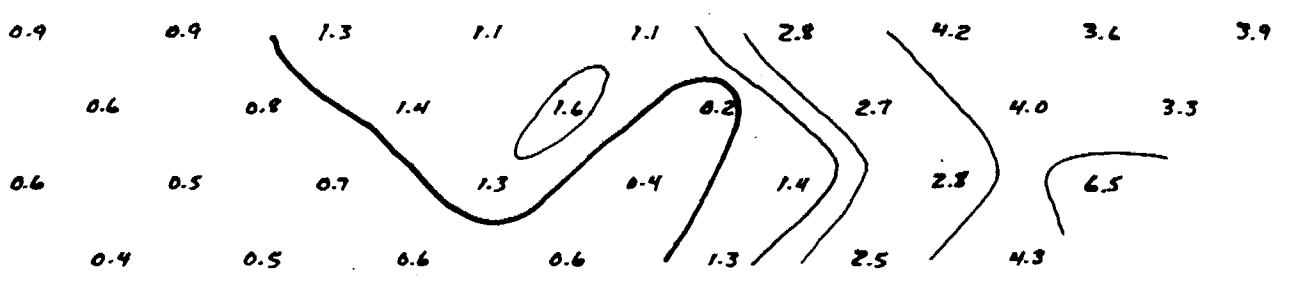
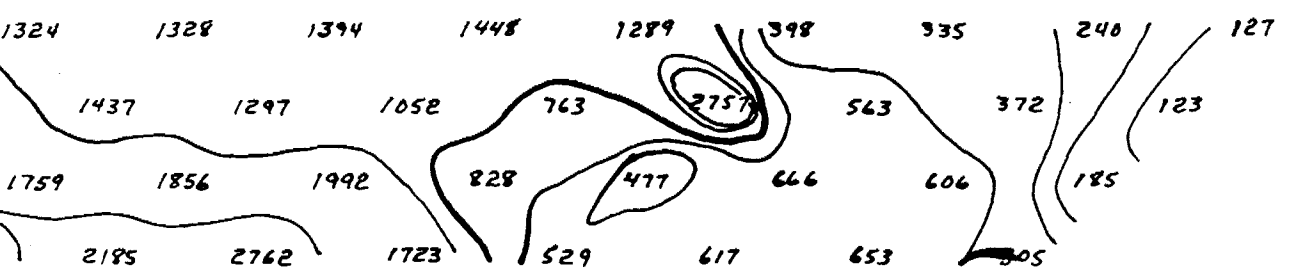
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

21508 21258 21008 11758 11508 11258 11008 01765 01505 01255 01000 0125N 0150N 0175N 1100N 1125N 1150N 1175N 2100N



2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50N 4+75N 5+00N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

93

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

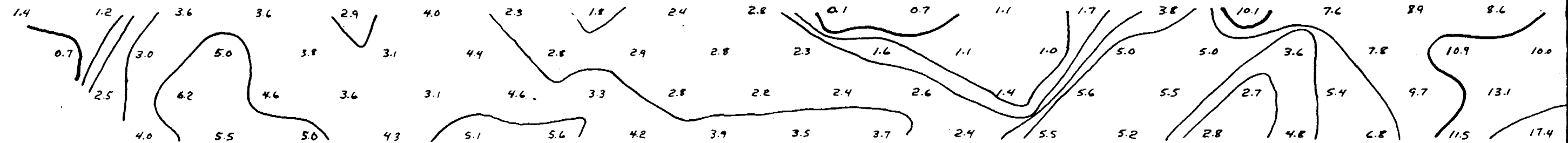
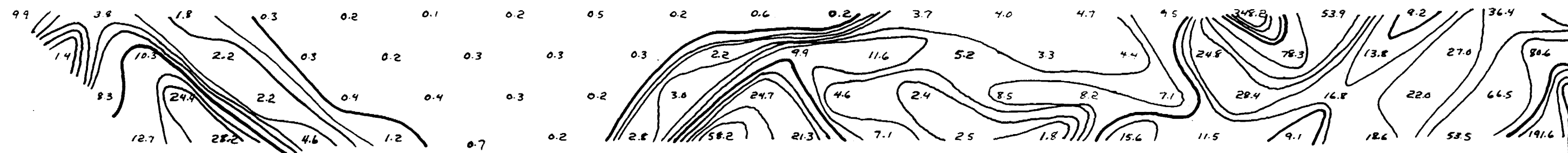
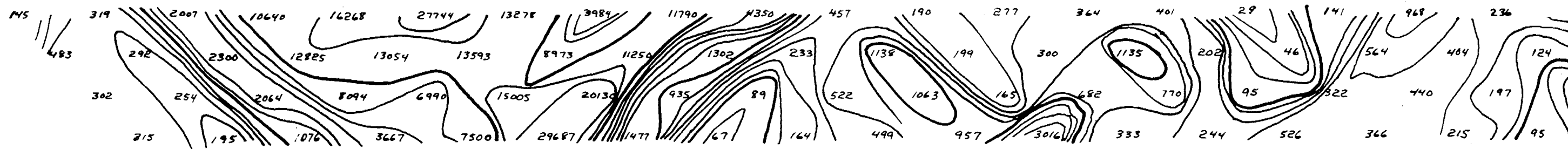
LINE: 10 E

M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

15+005 14+755 14+505 14+255 14+005 13+755 13+505 13+255 13+005 12+755 12+505 12+255 12+005 11+755 11+505 11+255 11+005 10+755 10+505 10+255 10+005



74005 74175 74345 74515 74685 74855 75025 75195 75365 75535 75705 75875 76045 76215 76385 76555 76725 76895 77065 77235 77405 77575 77745 77915 78085 78255 78425 78595 78765 78935 79105 79275 79445 79615 79785 79955 80125 80295 80465 80635 80805 80975 81145 81315 81485 81655 81825 81995 82165 82335 82505 82675 82845 83015 83185 83355 83525 83695 83865 84035 84205 84375 84545 84715 84885 85055 85225 85395 85565 85735 85905 86075 86245 86415 86585 86755 86925 87095 87265 87435 87605 87775 87945 88115 88285 88455 88625 88795 88965 89135 89305 89475 89645 89815 90000

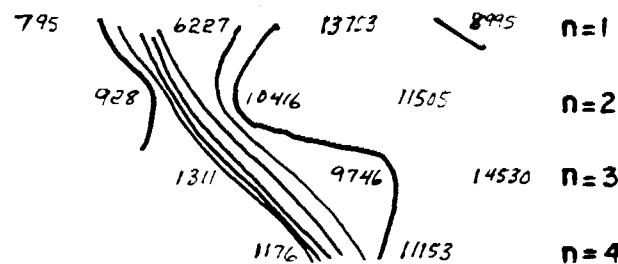


OPEN WATER



7005 6755 6505 6255 6005 5755 5505 5255 5005

Pa



SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

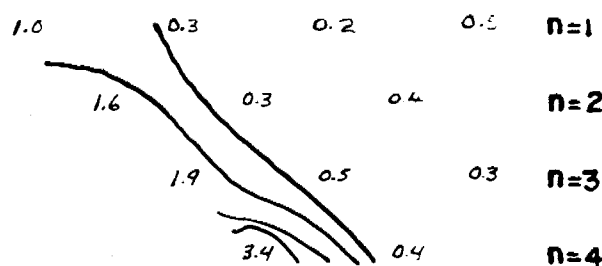
H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE :

MF



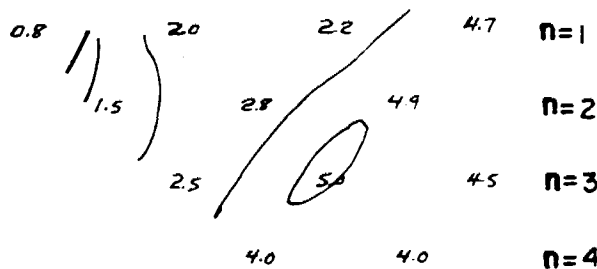
LINE : 19E

LEGEND : T.L. Too Low

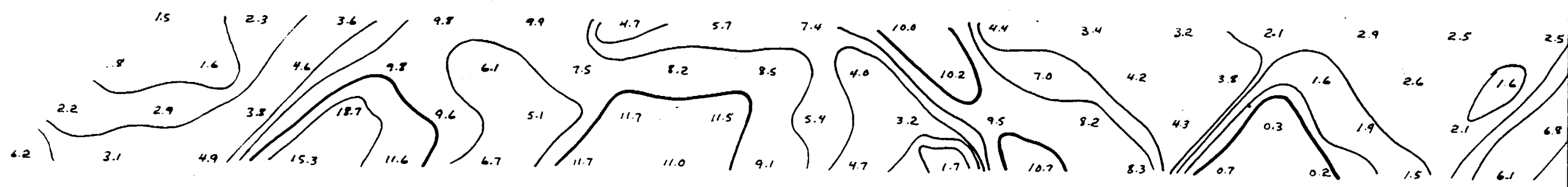
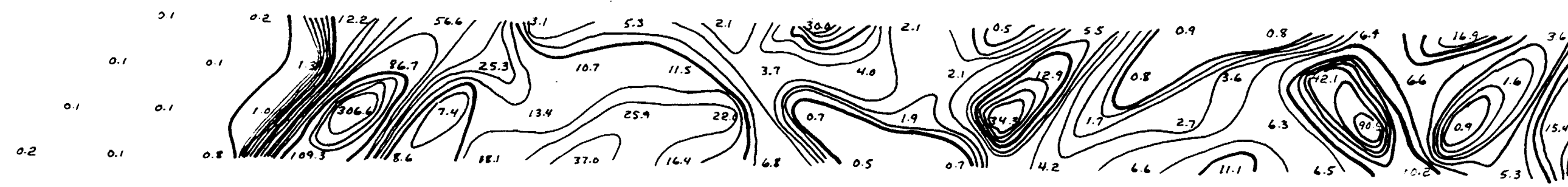
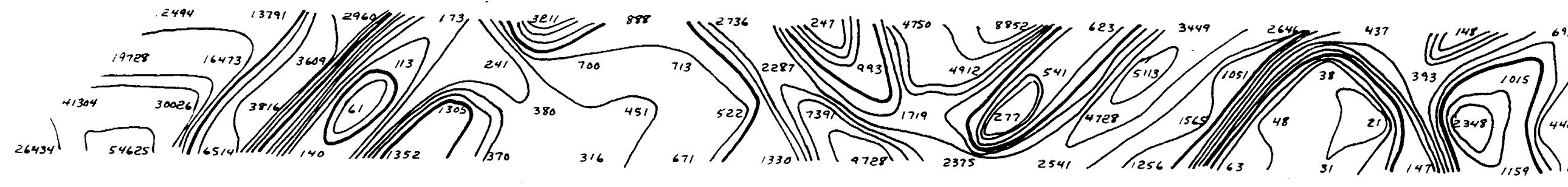
OPEN WATER

Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

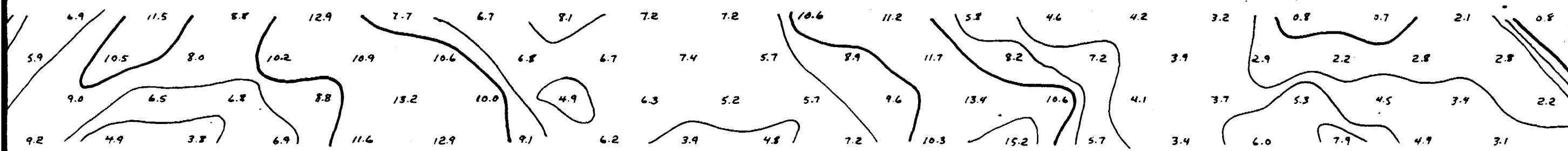
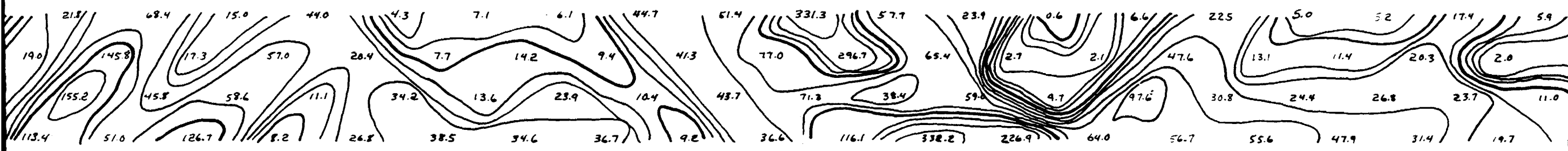
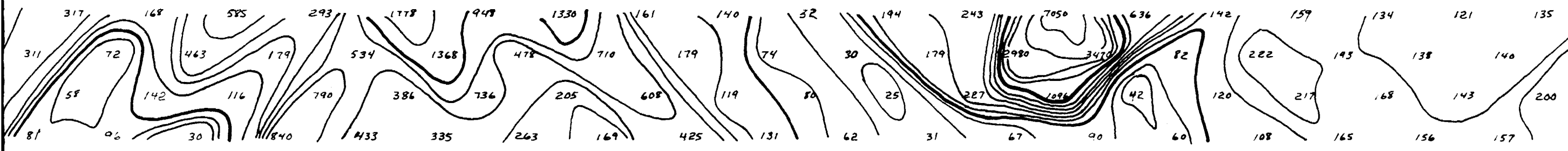
C.F.E.



16+500 16+250 16+000 15+750 15+500 15+250 15+000 14+750 14+500 14+250 14+000 13+750 13+500 13+250 13+000 12+750 12+500 12+250 12+000 11+750 11+500



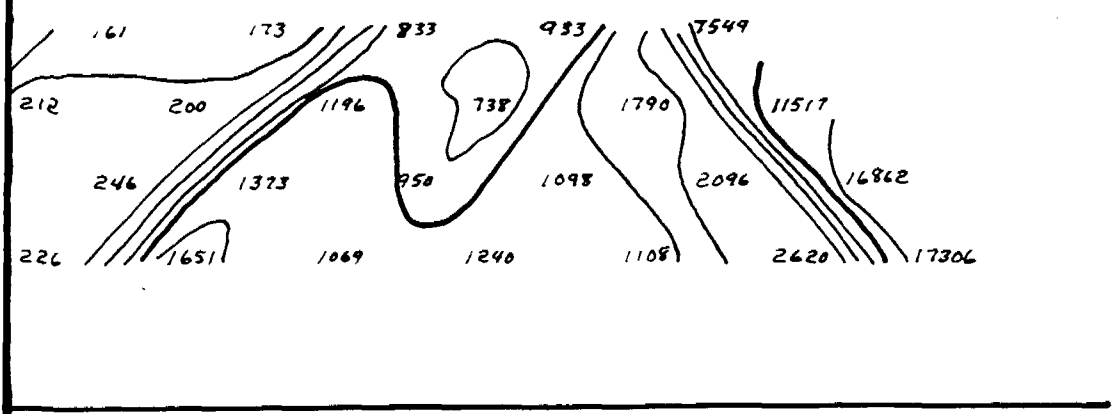
11+25s 11+00s 10+75s 10+50 10+25s 10+00s 9+75s 9+50s 9+25s 9+00s 8+75s 8+50s 8+25s 8+00s 7+75s 7+50s 7+25s 7+00s 6+75s





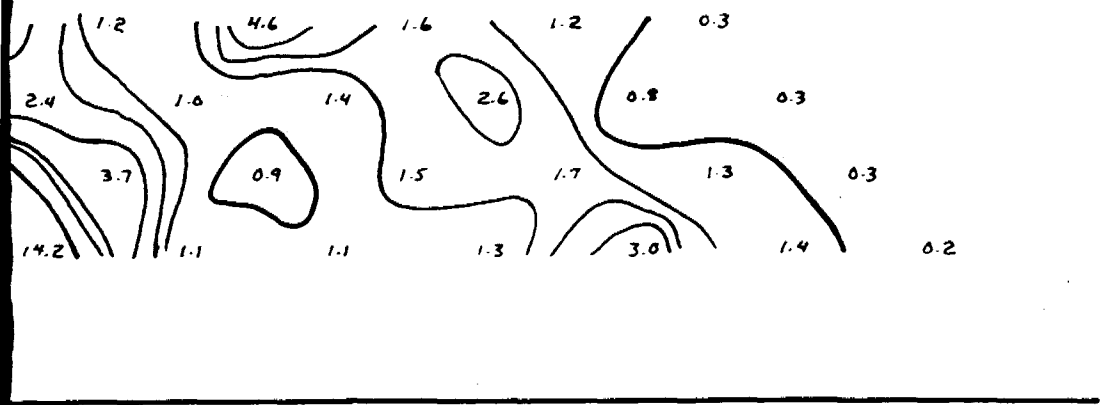
6+50S 6+25S 6+00S 5+75S 5+50S 5+25S 5+00S 4+75S 4+50S 4+25S 4+00S 3+75S

SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.



e

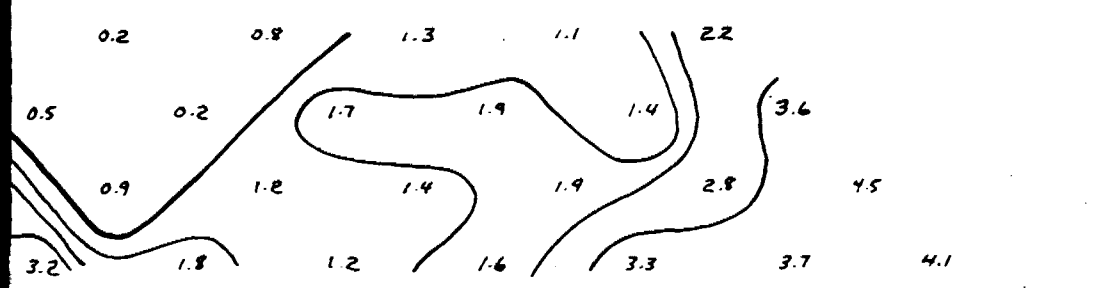
**H P I P SURVEY** (DIPOLE - DIPOLE)  
SCALE : 2.0 cm = 25.0m = Electrode Interval  
FREQUENCIES : 0.3 & 5.0 Hz.  
DATE:



M.F.

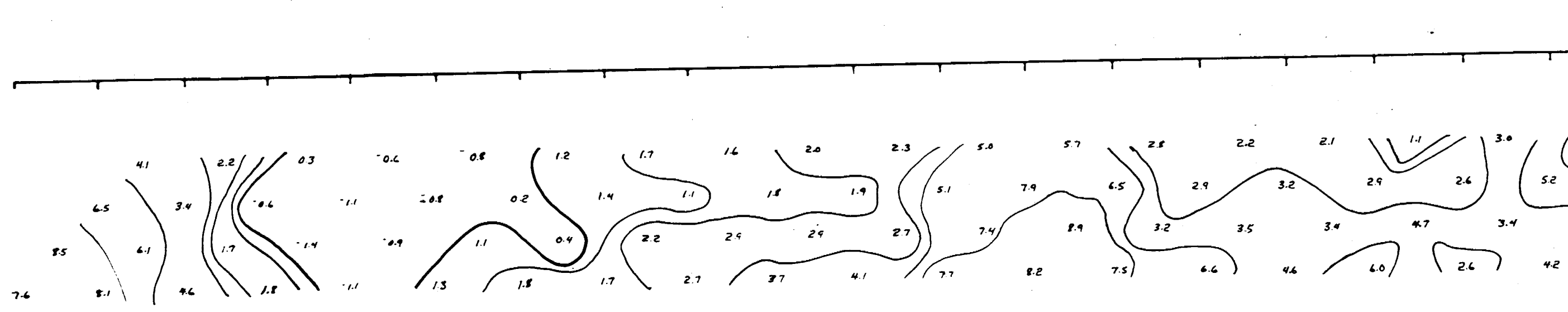
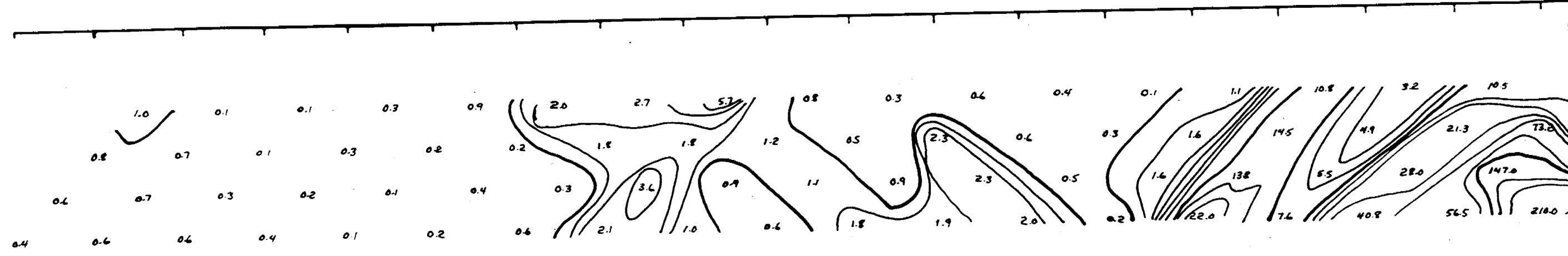
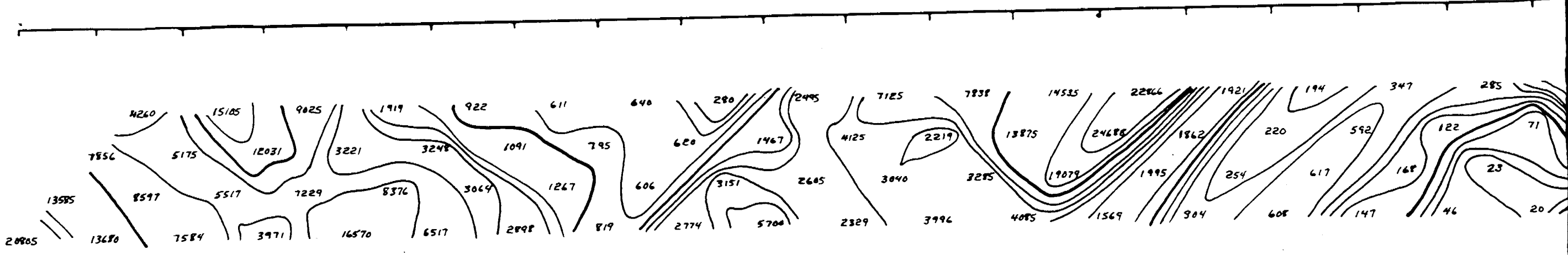
LINE: 20 E

**Mertens & MacNeil**  
GEOPHYSICAL GROUND SURVEYS LTD.

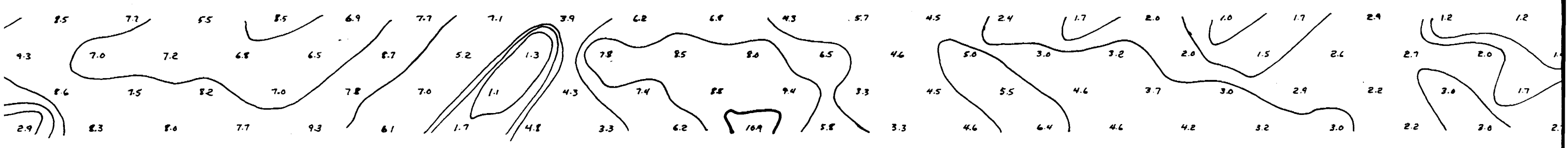
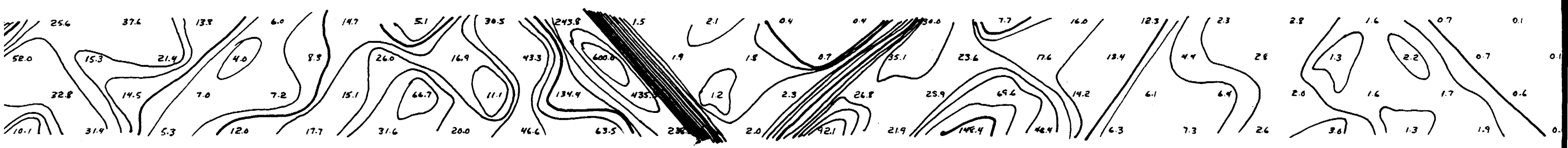
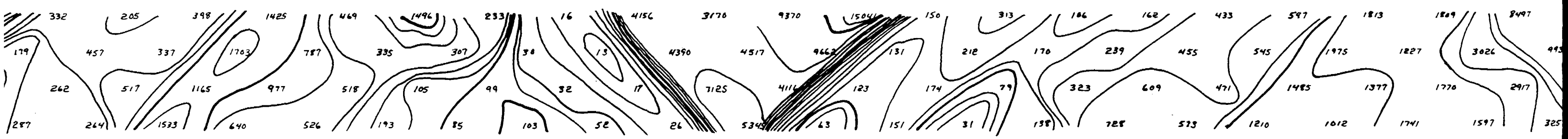


F.E.

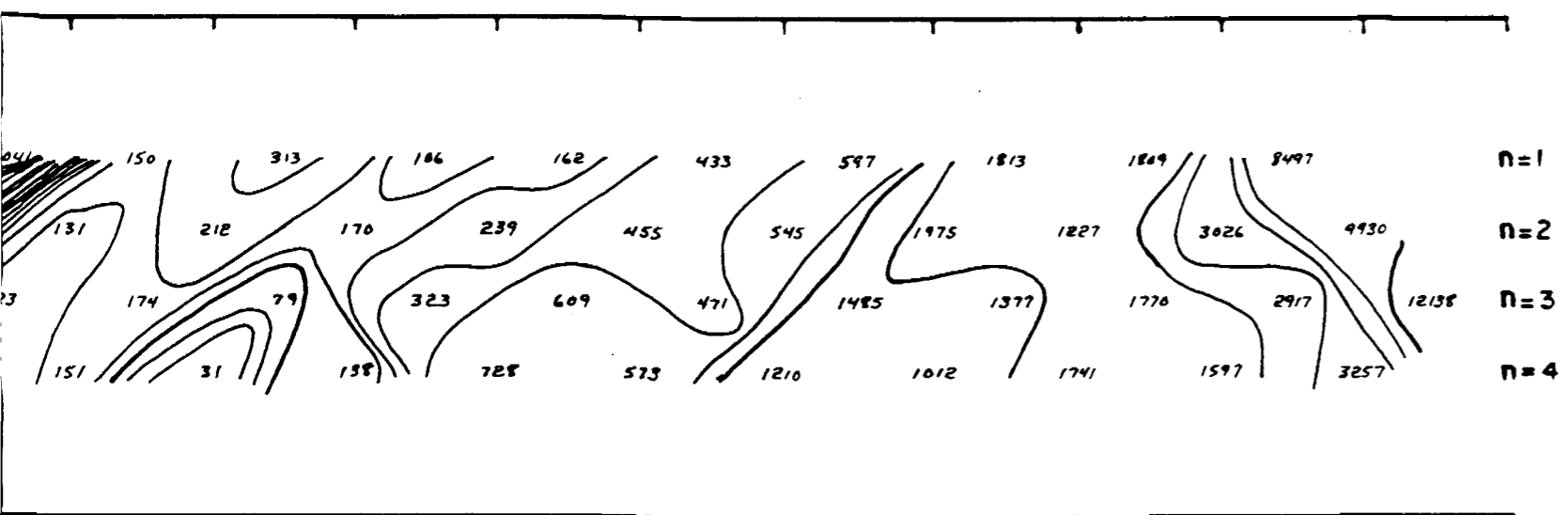
15+005 14+755 14+505 14+255 14+005 13+755 13+505 13+255 13+005 12+755 12+505 12+255 12+005 11+755 11+505 11+255 11+005



104900 104855 104800 94755 94505 94255 94005 84155 84505 84855 84005 74755 74505 74255 74005 64155 64505 64855 64005 54755 54505 54255



71905 71295 71005 64755 64505 64855 64005 54755 54505 54855 54005



P_a

SPARTON RESOURCES INC

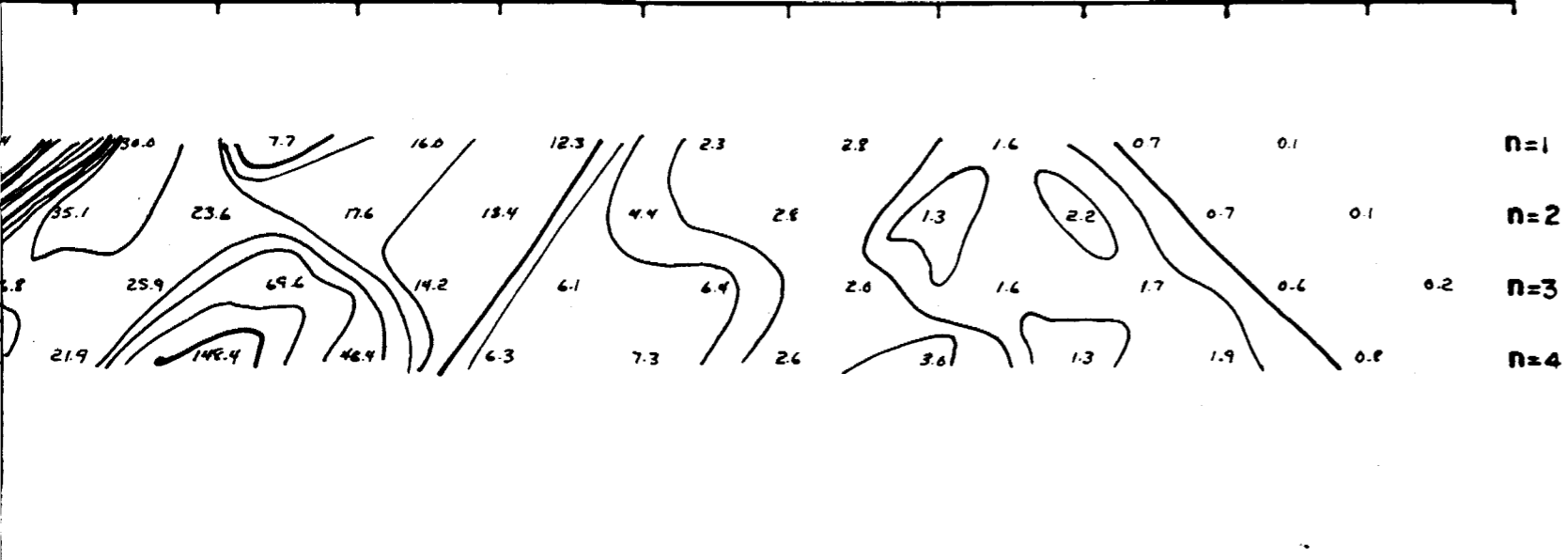
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0 m = Electrode Interval

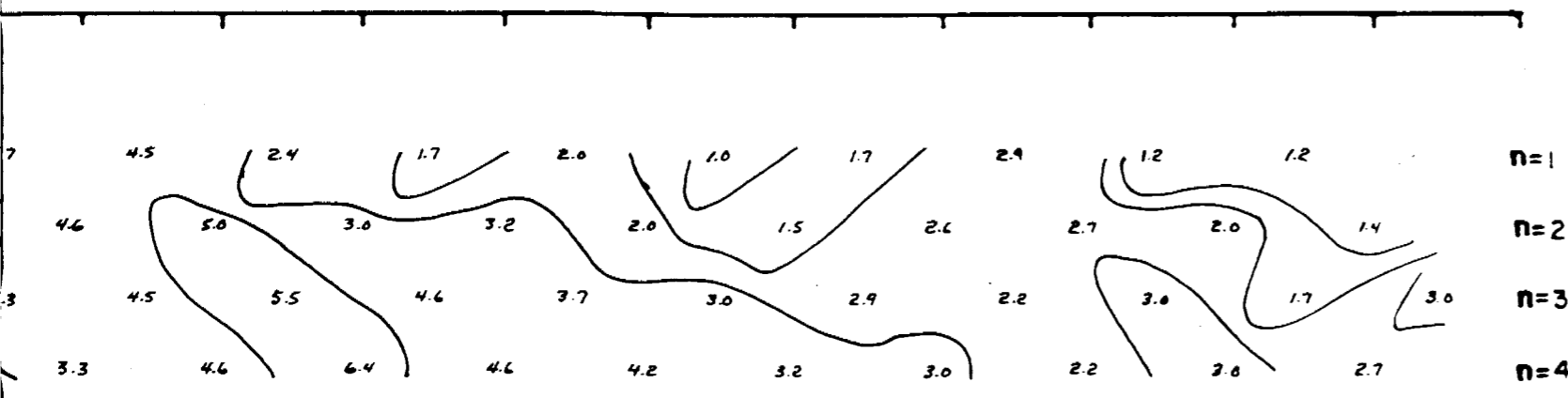
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:



MF

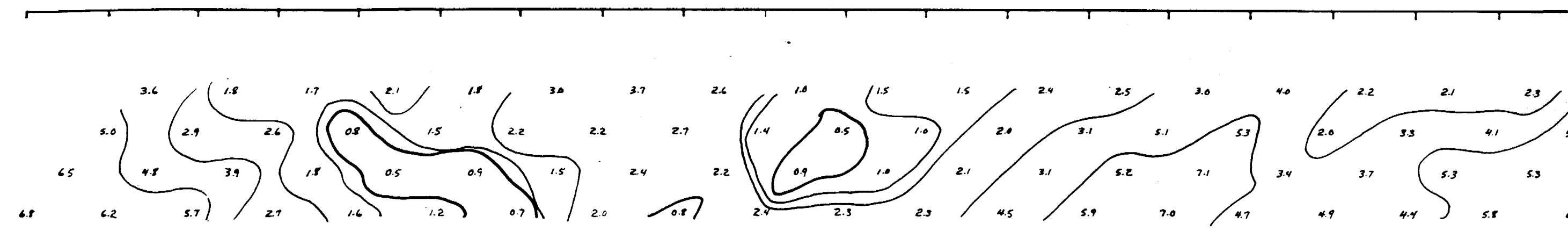
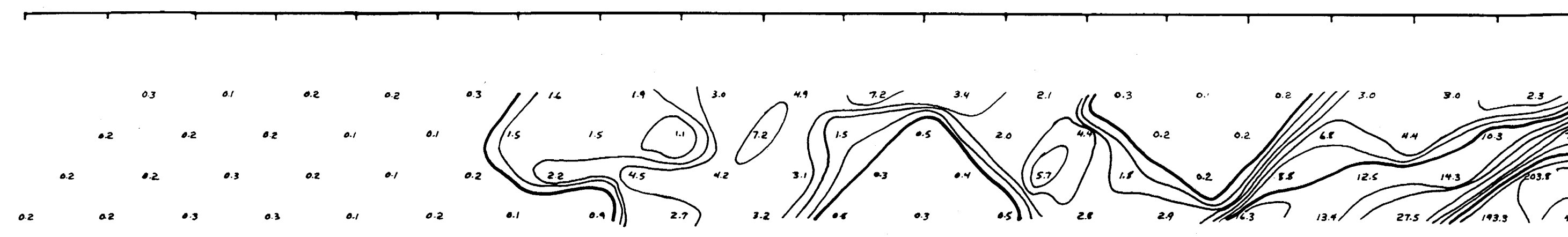
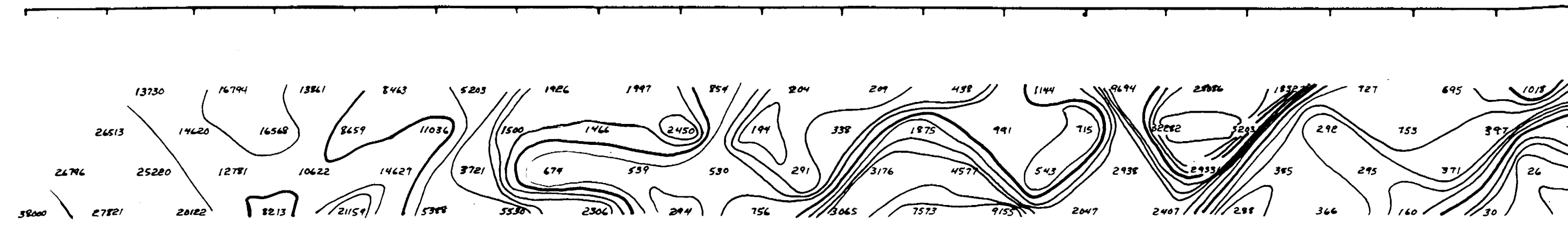
LINE : 21E



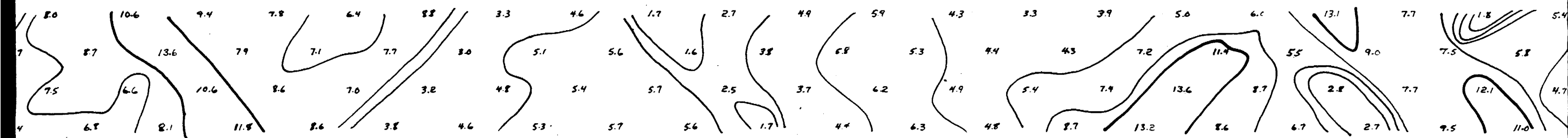
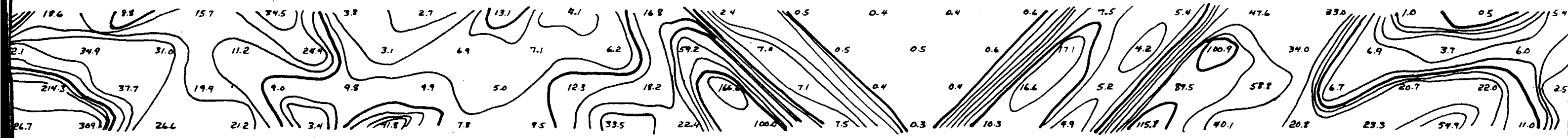
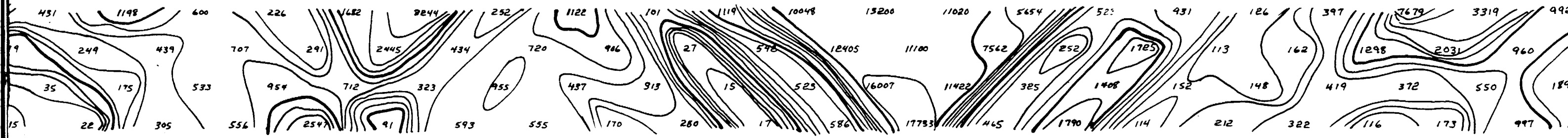
C.F.E

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

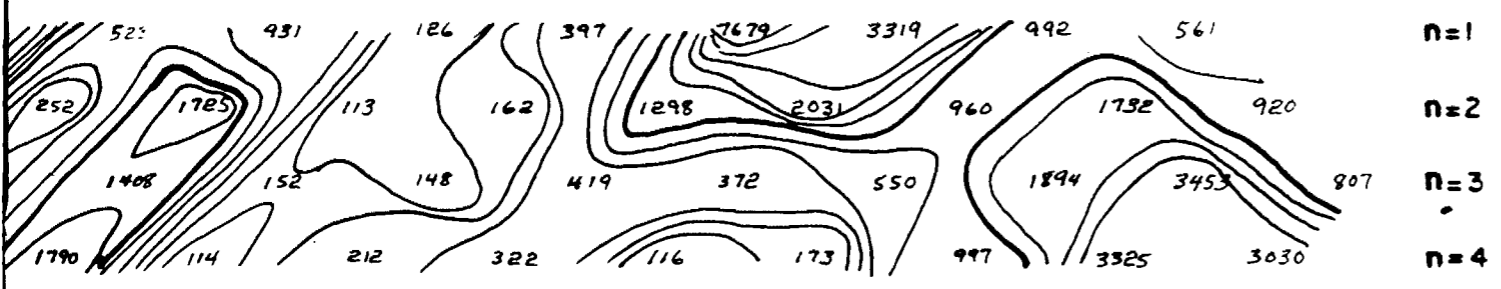
15+565 15+585 15+605 14+753 14+803 14+853 14+903 13+785 13+503 13+065 13+005 12+783 12+603 12+485 12+403 11+753 11+603 11+583 11+403



94755 104805 104885 104905 94755 94505 94255 94005 8475 84505 84255 84005 74755 74505 74255 74005 64755 64505 64255 64005 54755



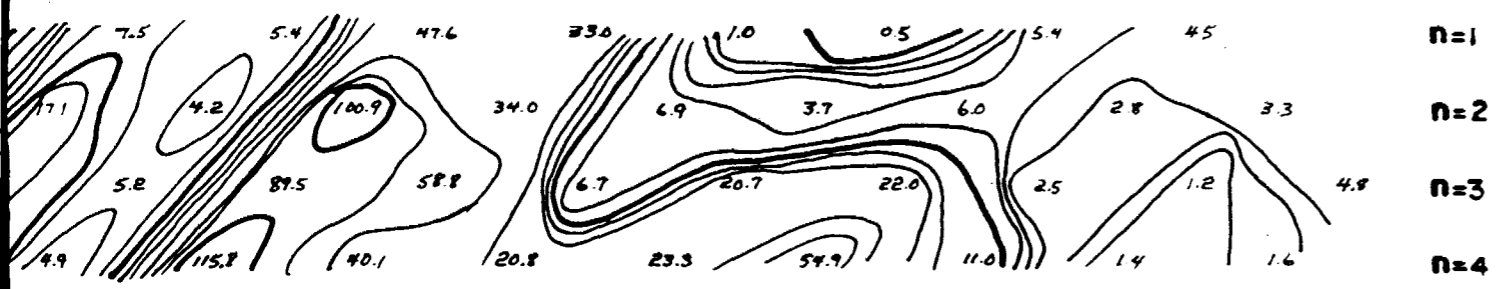
7455 7405 6+785 6+800 6+815 6+830 6+845 6+860 6+875 6+890



Pa

SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

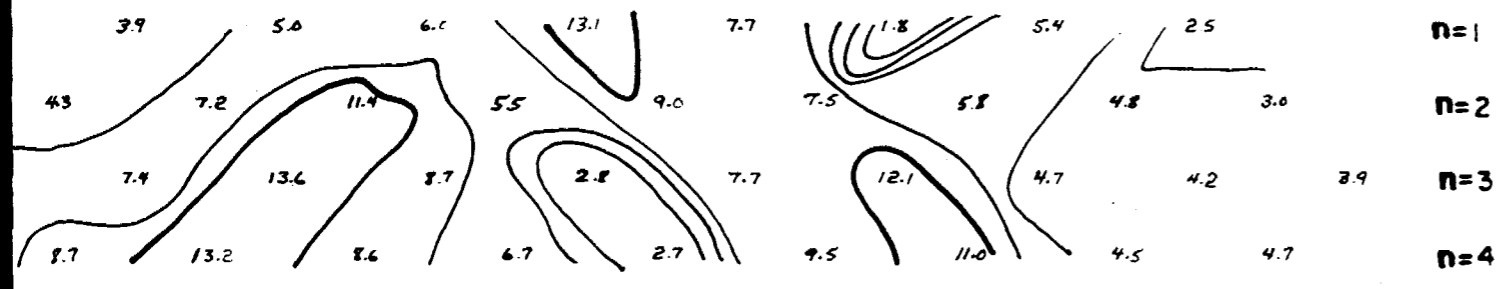
H P I P SURVEY (DIPOLE-DIPOLE)  
 SCALE : 2.0 cm = 25.0m = Electrode Interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE:



MF

LINE: 22E

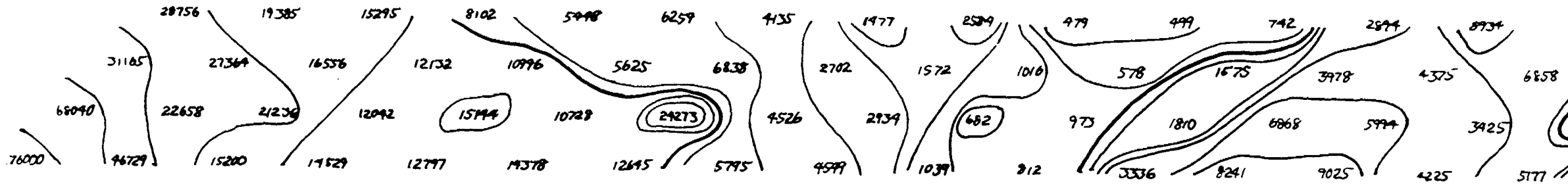
Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.



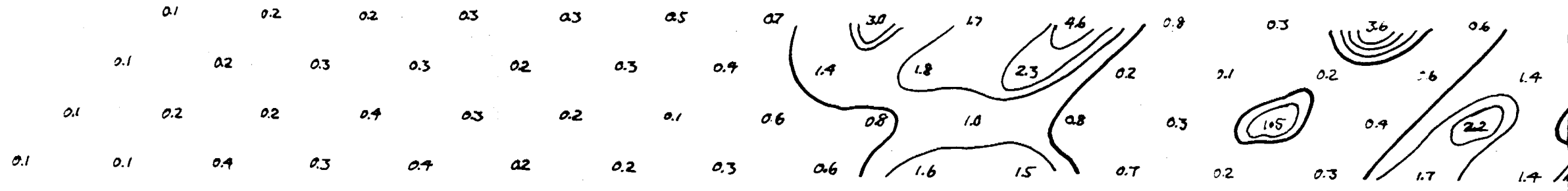
C.F.E

16+50s 16+25s 16+00s 15+75s 15+50s 15+25s 15.00s 14+75s 14+50s 14+25s 14+00s 13+75s 13+50s 13+25s 13+00s 12+75s 12+50s 12+25s 12+00s 11+75s

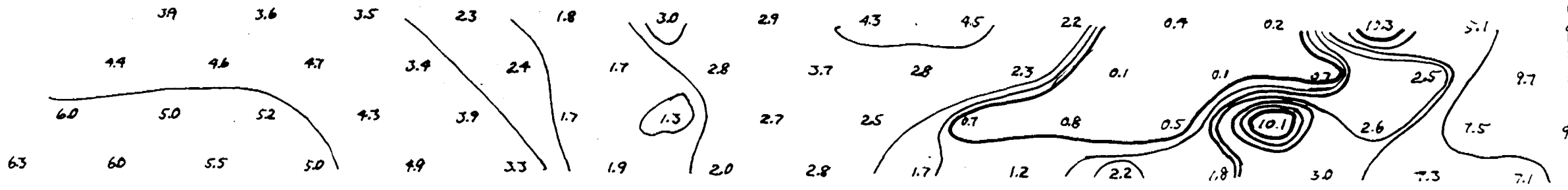
N-1  
N-2  
N-3  
N-4



N-1  
N-2  
N-3  
N-4

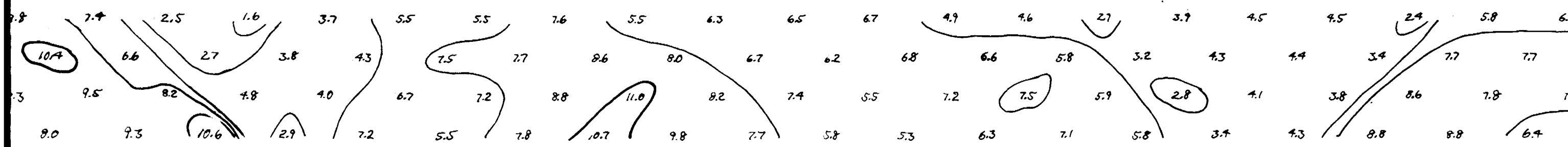
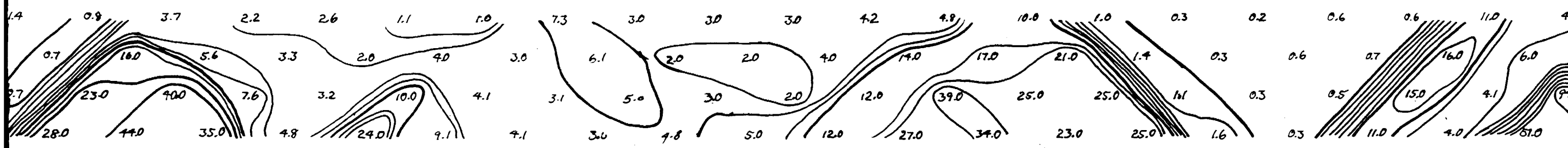
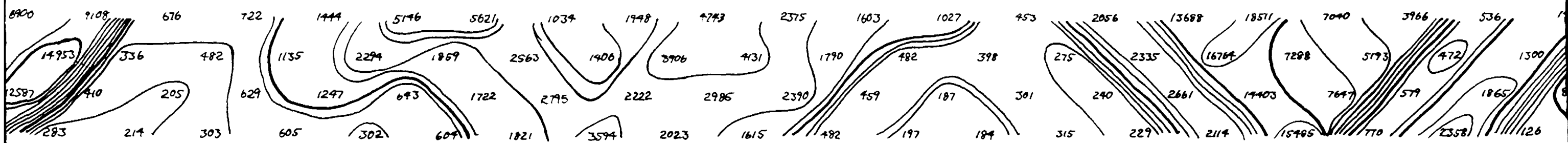


N-1  
N-2  
N-3  
N-4

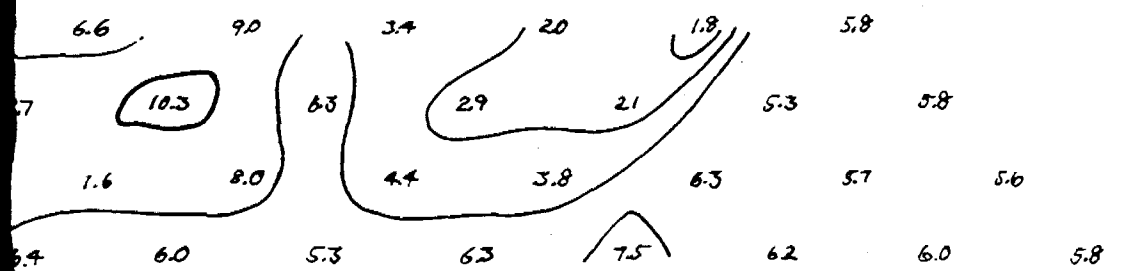
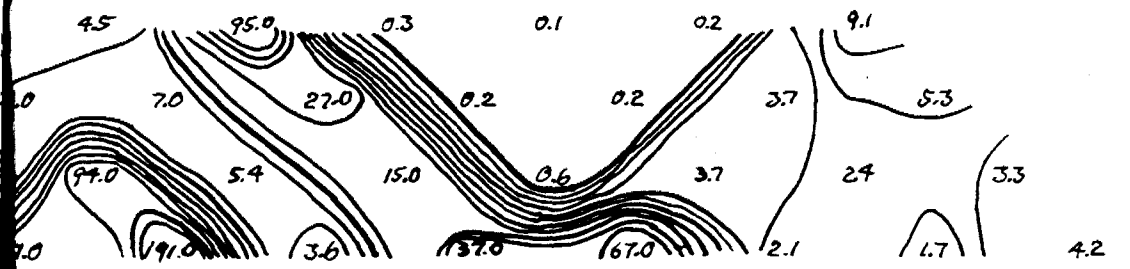
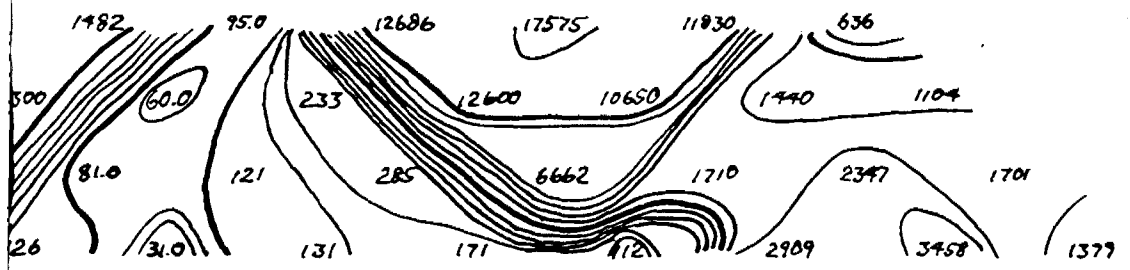




11+50.5 11+25.3 11+00.5 10+75.3 10+50.5 10+25.5 10+00.3 9+75.3 9+50.3 9+25.3 9+00.5 8+75.3 8+50.3 8+25.3 8+00.3 7+75.3 7+50.5 7+25.3 7+00.3 6+75.3



75s 6+50s 6+25s 6+00s 5+75s 5+50s 5+25s 5+00s 4+75s 4+50s 4+25s 4+00s 3+75s



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

HPIP SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

LINE : 23 E

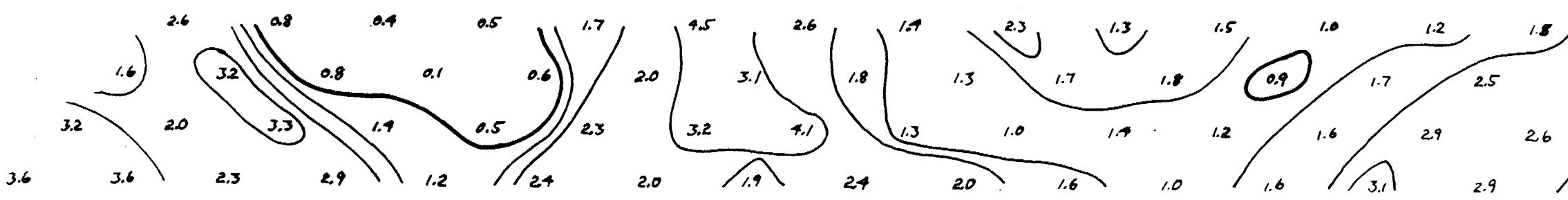
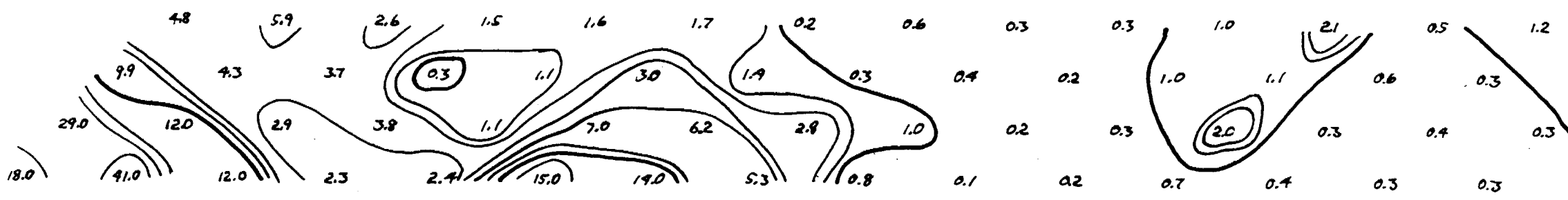
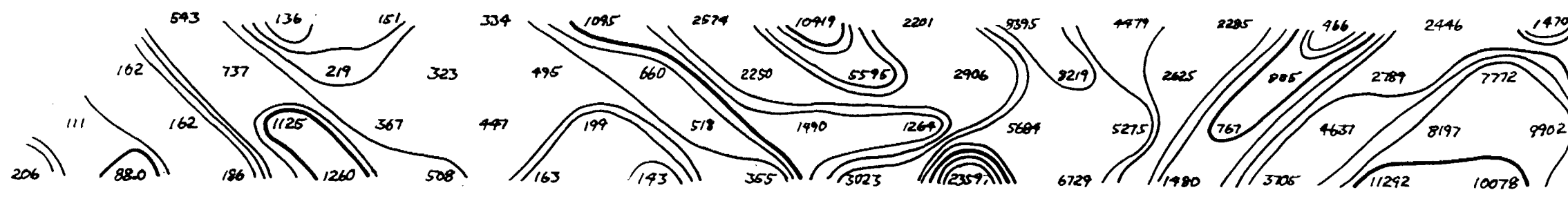
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

Cg

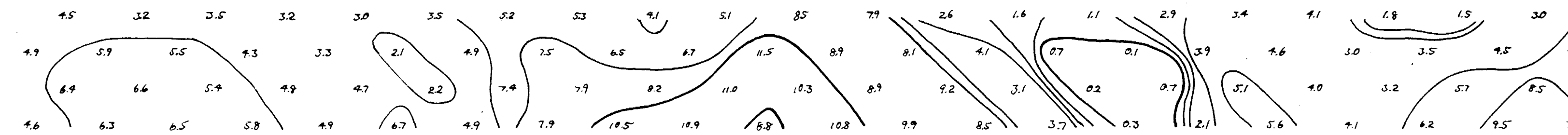
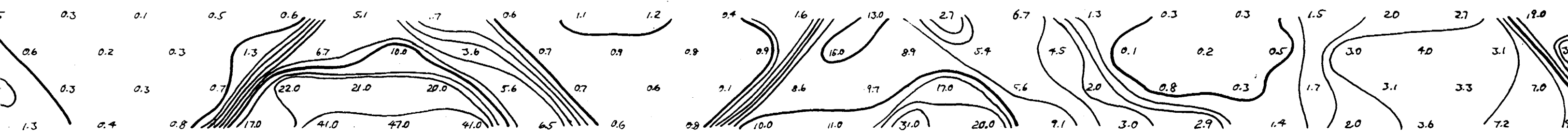
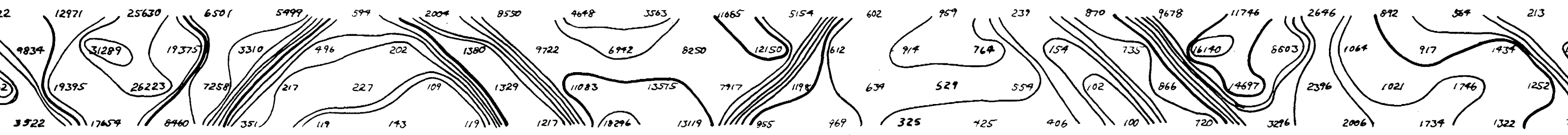
MF

FE

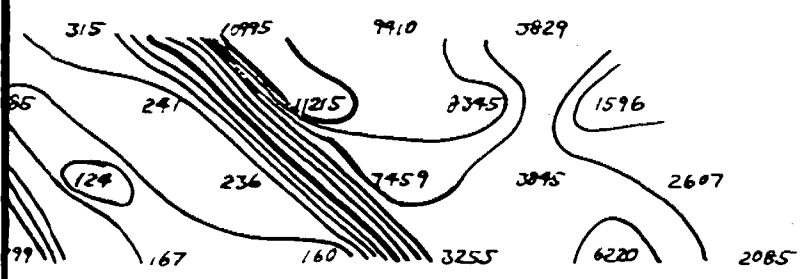
16+50s 16+25s 16+00s 15+75s 15+50s 15+25s 15+00s 14+75s 14+50s 14+25s 14+00s 13+75s 13+50s 13+25s 13+00s 12+75s 12+50s 12+25s 12+00s



11+50s 11+25s 11+00s 10+75s 10+50s 10+25s 10+00s 9+75s 9+50s 9+25s 9+00s 8+75s 8+50s 8+25s 8+00s 7+75s 7+50s 7+25s 7+00s 6+75s 6+50s



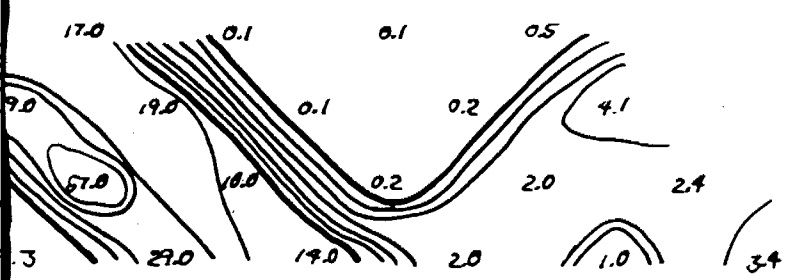
425s 6+00s 5+75s 5+50s 5+25s 5+00s 4+75s 4+50s 4+25s 4+00s 3+75s



C₂

SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

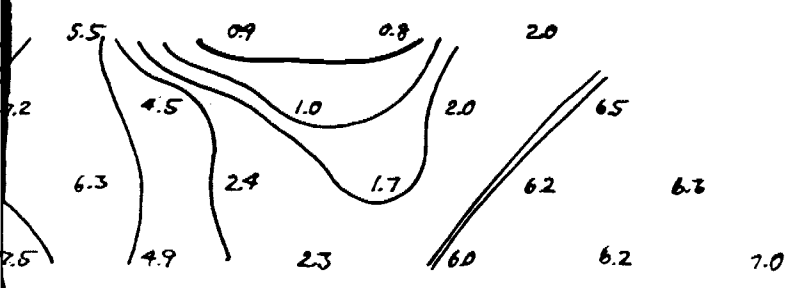
HPIIP SURVEY (DIPOLE-DIPOLE)  
SCALE : 2.0 cm = 25.0 m = Electrode Interval  
FREQUENCIES : 0.3 & 5.0 Hz.  
DATE:



M.F.

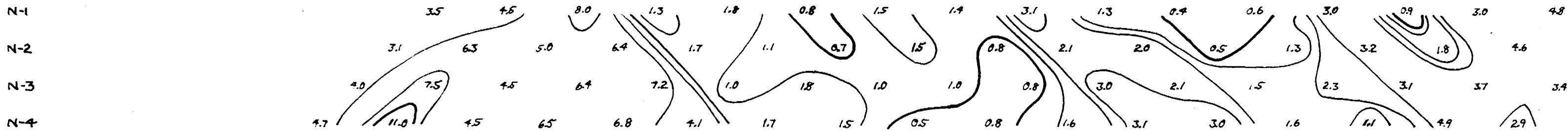
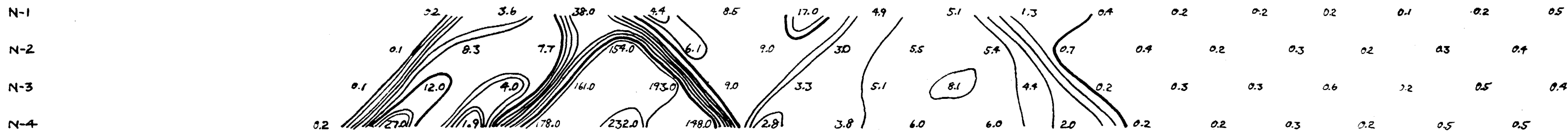
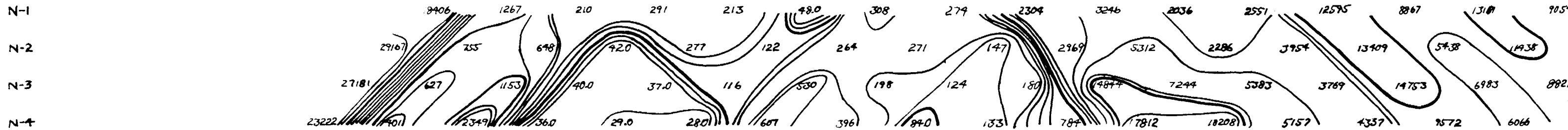
LINE: 24 E

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

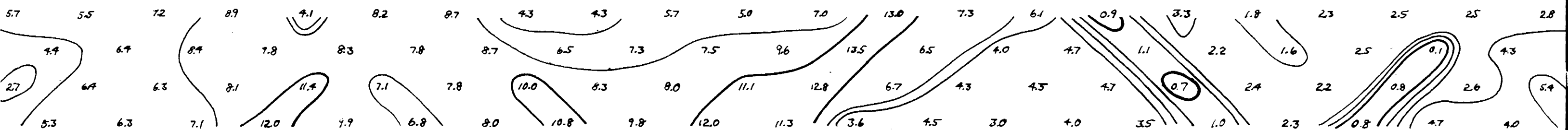
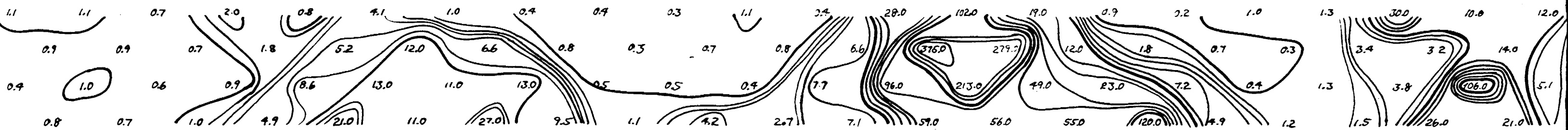
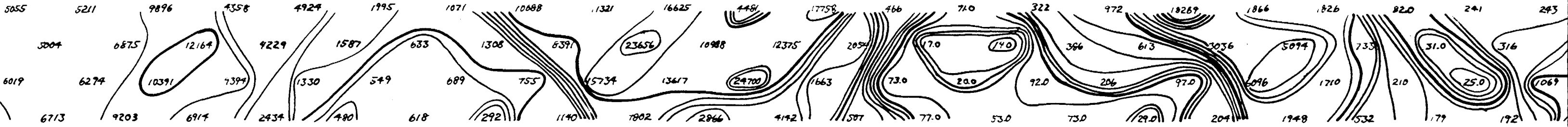


F.E.

16+505 16+255 16+005 15+755 15+505 15+255 15+005 14+755 14+505 14+255 14+005 13+755 13+505 13+255 13+005 12+755 12+505 12+255 12+005 11+755



11+253 11+005 10+755 10+505 10+255 10+005 9+755 9+505 9+255 9+005 8+755 8+505 8+255 8+005 7+755 7+505 7+255 7+005 6+755 6+505 6+255



6+00s 5+75s 5+50s 5+25s 5+00s 4+75s 4+50s 4+25s

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

Cg

HPIIP SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

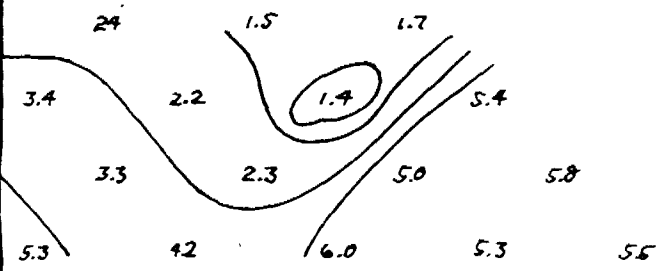
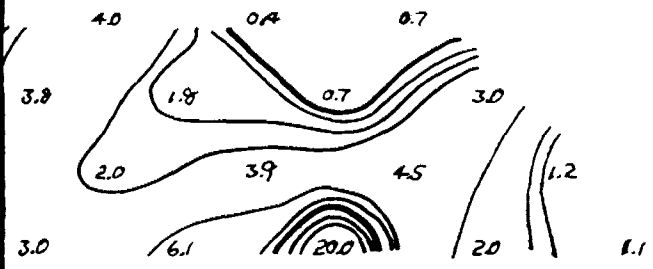
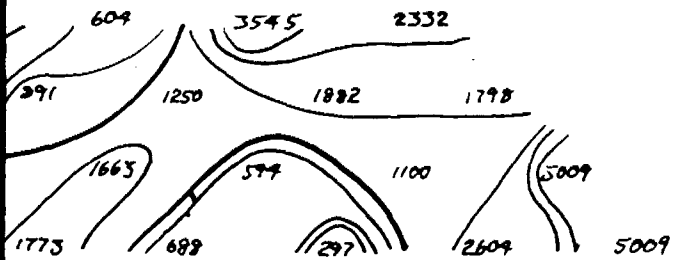
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

LINE : 25 E

MF.

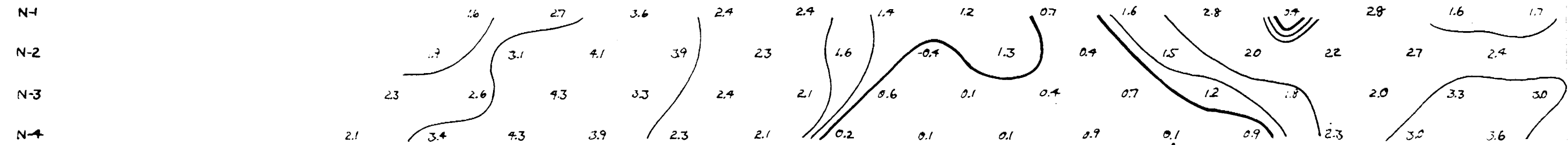
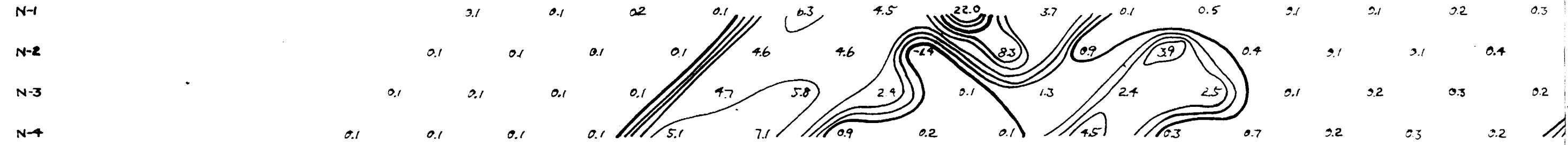
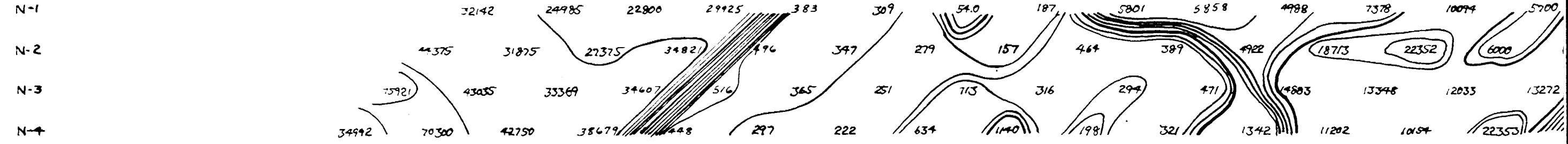
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



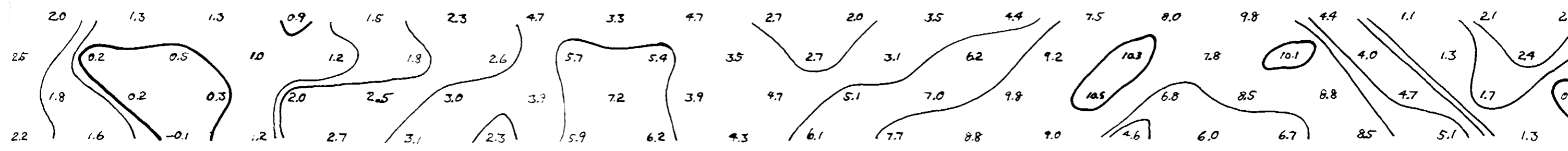
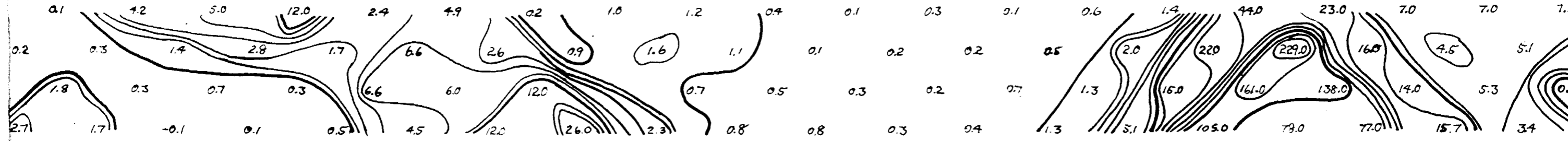
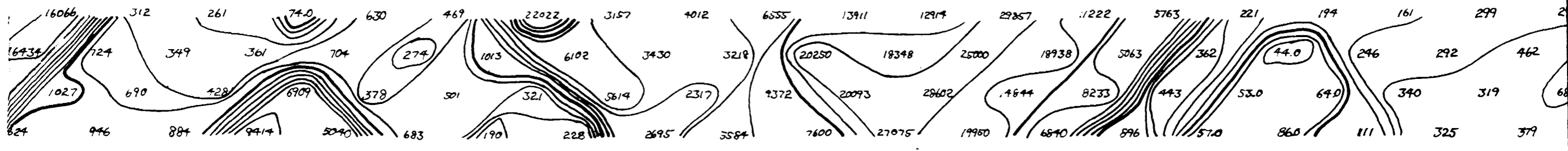
F.E.



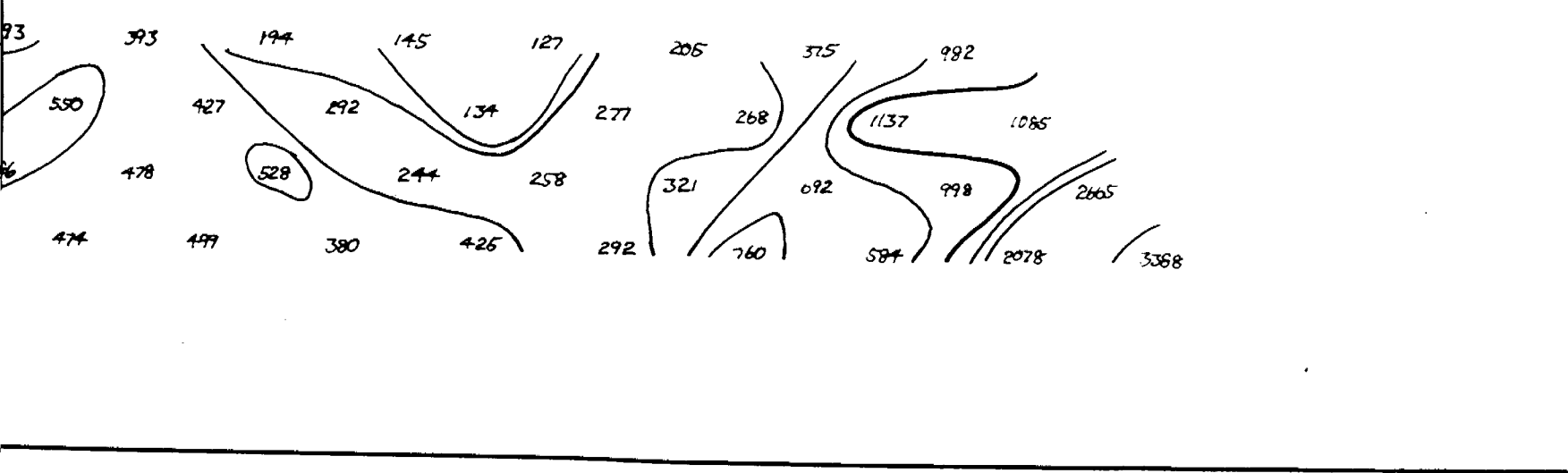
16+50s 16+25s 16+00s 15+75s 15+50s 15+25s 15+00s 14+75s 14+50s 14+25s 14+00s 13+75s 13+50s 13+25s 13+00s 12+75s 12+50s 12+25s



12+00s 11+75s 11+50s 11+25s 11+00s 10+75s 10+50s 10+25s 10+00s 9+75s 9+50s 9+25s 9+00s 8+75s 8+50s 8+25s 8+00s 7+75s 7+50s 7+25s



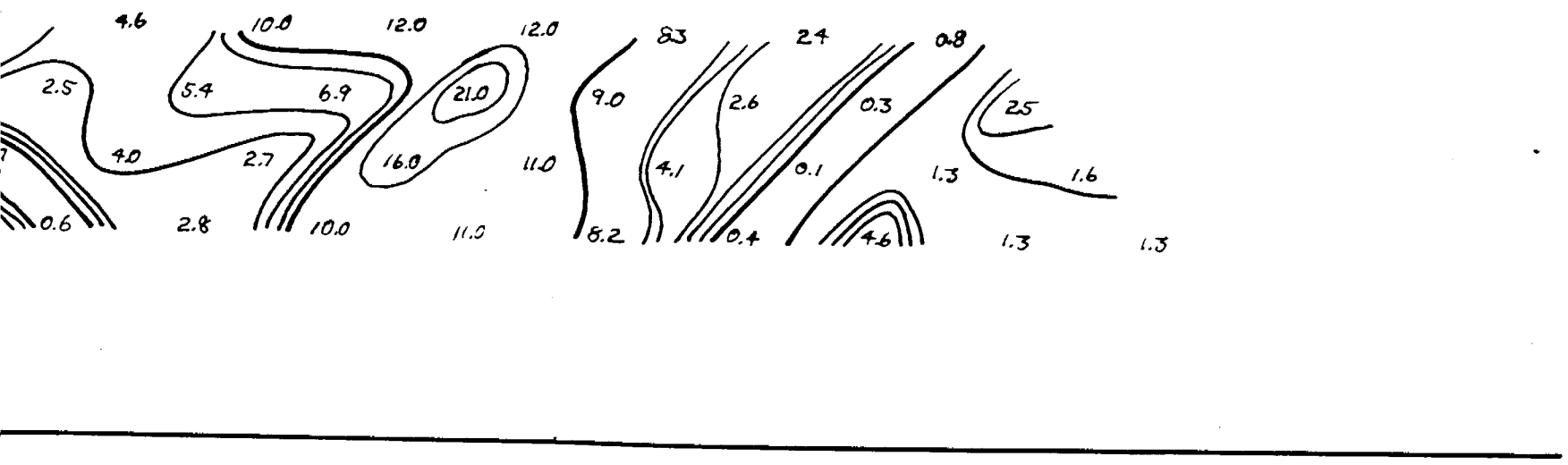
7+00s 6+75s 6+50s 6+25s 6+00s 5+75s 5+50s 5+25s 5+00s 4+75s 4+50s 4+25s



C₉

SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

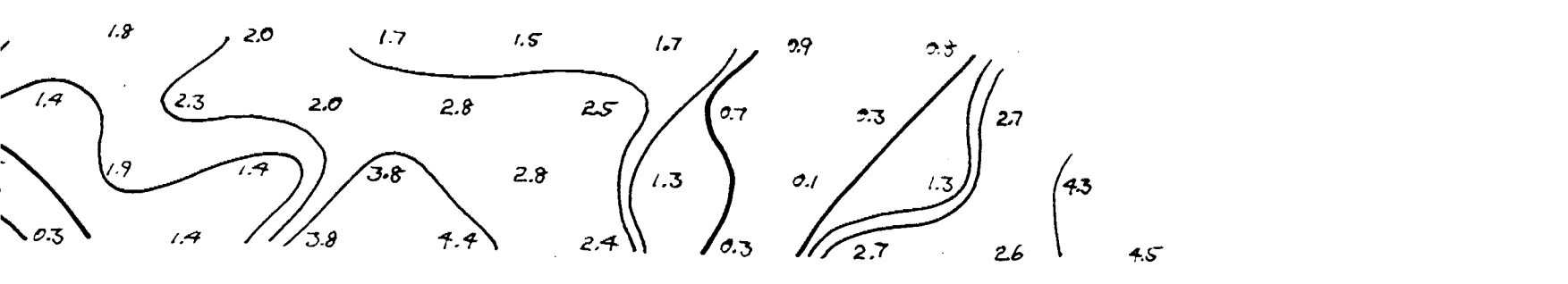
**H P I P SURVEY** (DIPOLE-DIPOLE)  
 SCALE : 2.0 cm = 25.0m = Electrode Interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE :



M.F.

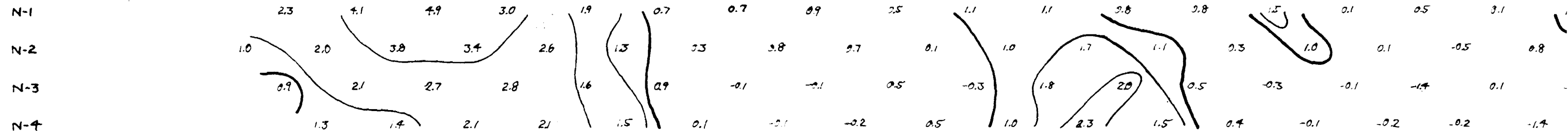
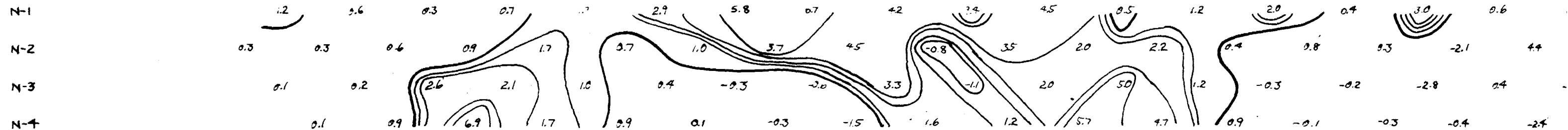
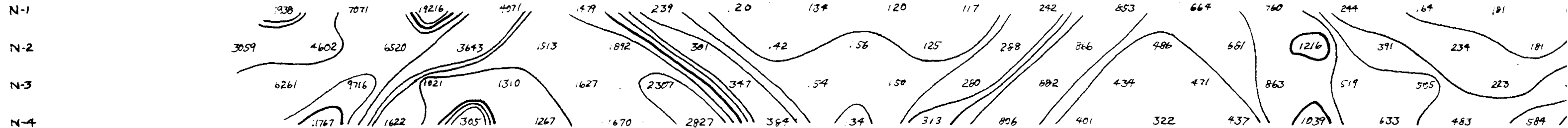
LINE : 26 E

**Mertens & MacNeil**  
 GEOPHYSICAL GROUND SURVEYS LTD.

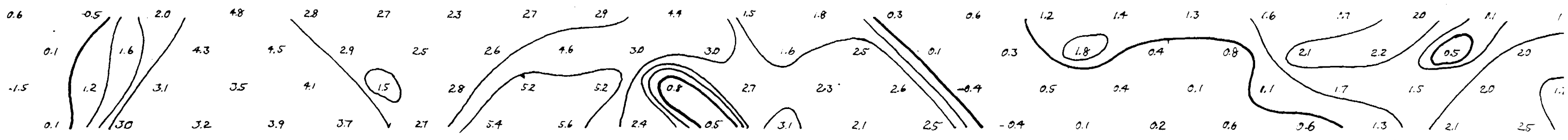
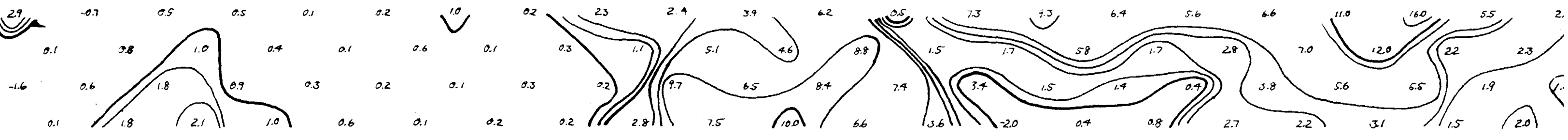
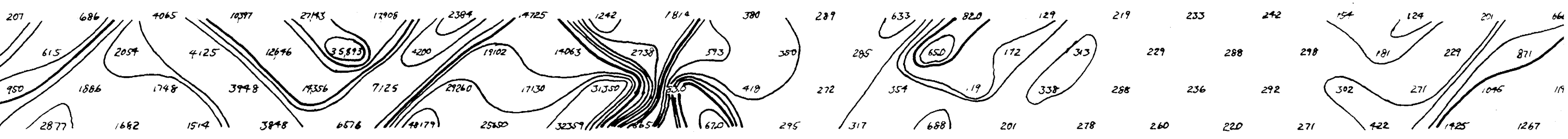


F.E.

15+255 15+005 14+755 14+505 14+255 14+005 13+755 13+505 13+255 13+005 12+755 12+505 12+255 12+005 11+755 11+505 11+255 11+005 10+755 10+505

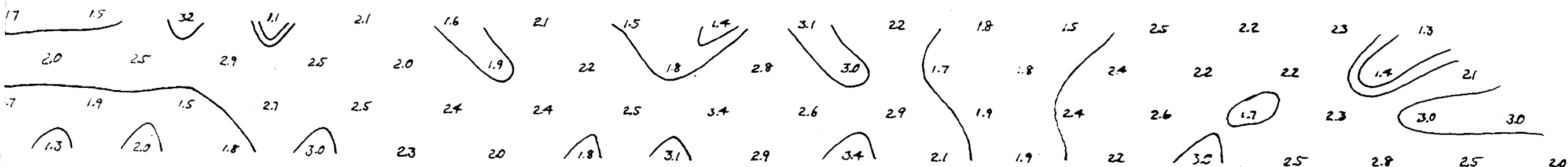
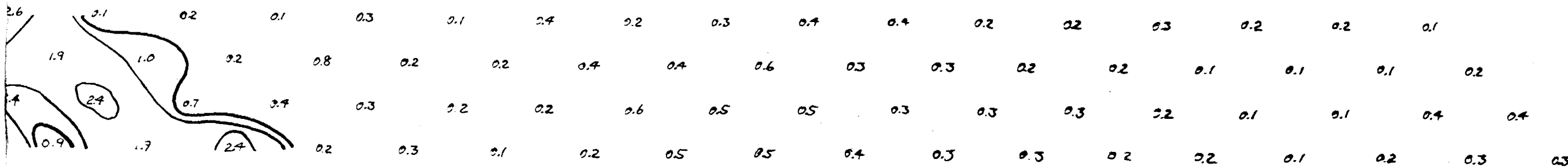
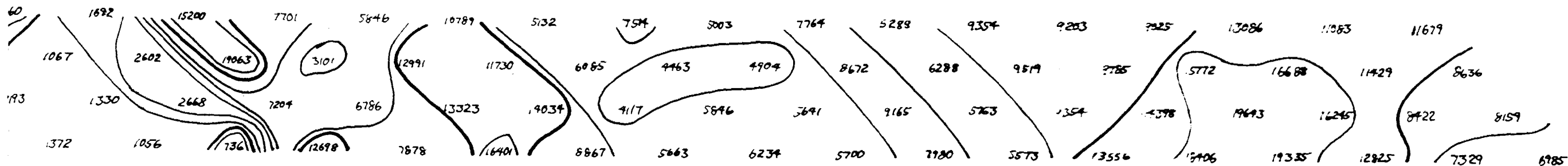


10+00S 9+75S 9+50S 9+25S 9+00S 8+75S 8+50S 8+25S 8+00S 7+75S 7+50S 7+25S 7+00S 6+75S 6+50S 6+25S 6+00S 5+75S 5+50S 5+25S 5+00S

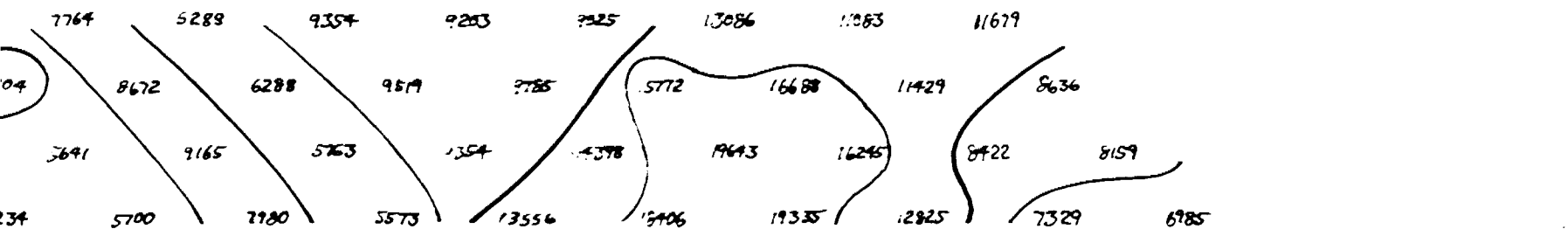


15+00s

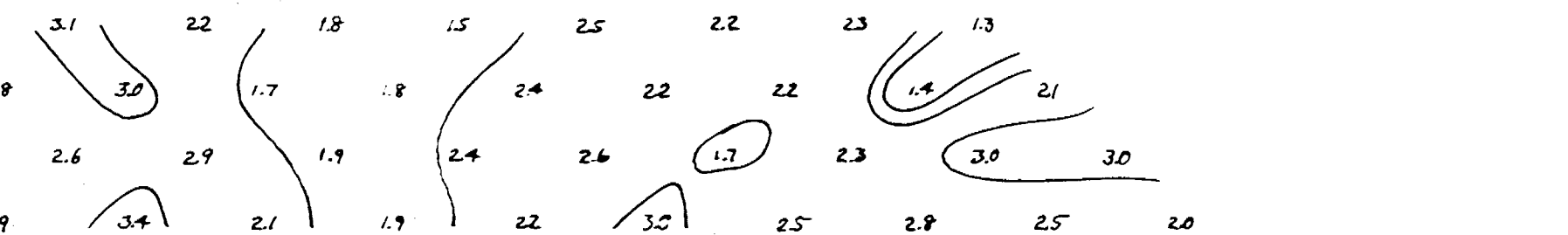
4+75s 4+50s 4+25s 4+00s 3+75s 3+50s 3+25s 3+00s 2+75s 2+50s 2+25s 2+00s 1+75s 1+50s 1+25s 1+00s 0+75s 0+50s 0+25s 0+00



753 2+503 2+255 2+005 1+753 1+503 1+253 1+005 0+753 0+503 0+255 0+00 3-25N



0.4	0.4	0.2	0.2	0.3	0.2	0.2	0.1		
0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2		
0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.4	0.4	
0.4	0.3	0.3	0.2	0.2	0.1	0.2	0.3	0.3	



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2-0 cm = 25-0 m = Electrode Interval

FREQUENCIES : 0-3 & 5-0 Hz.

DATE:

LINE: 28 E

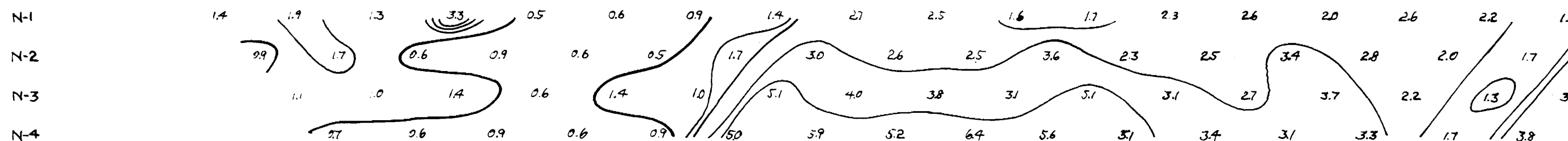
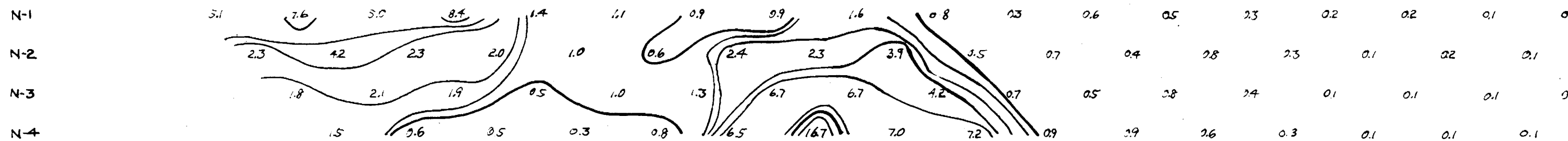
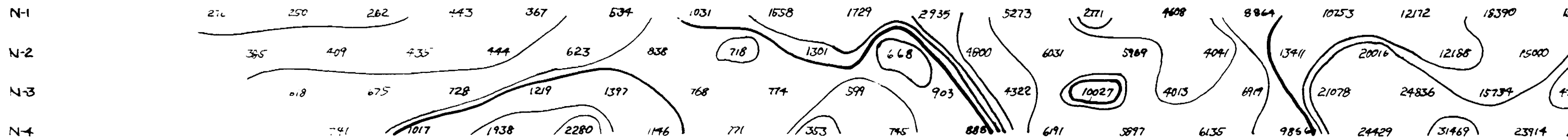
Cg

M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

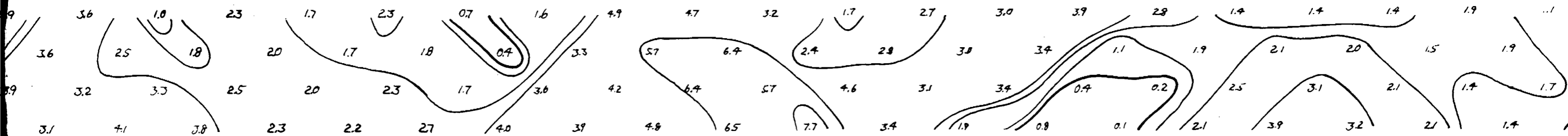
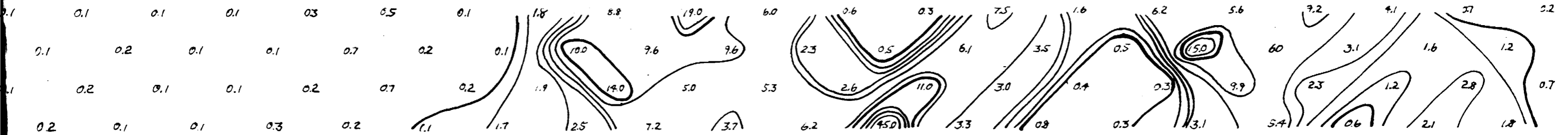
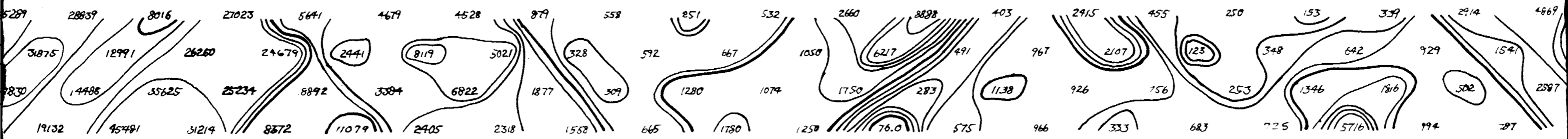
F.E.

13+753 13+503 13+253 13+003 12+753 12+503 12+253 12+003 11+753 11+503 11+253 11+003 10+753 10+503 10+253 10+003 9+753 9+503 9+253

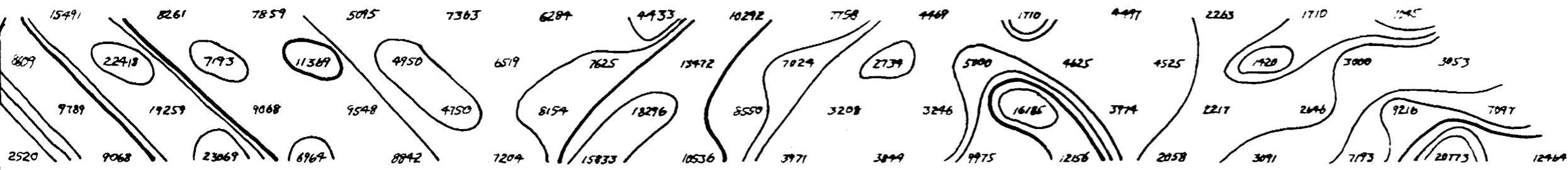




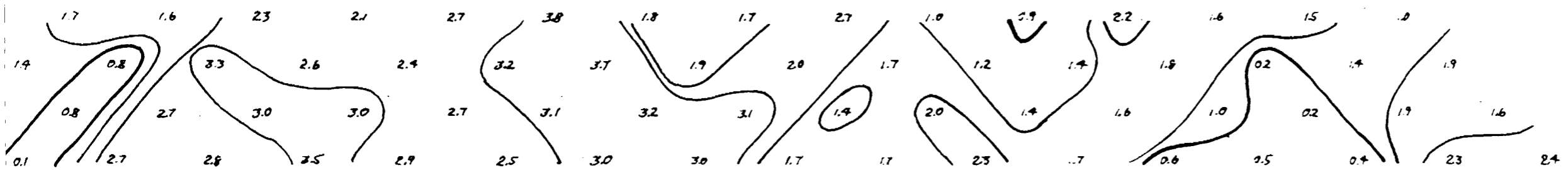
9+003 8+753 8+503 8+253 8+003 7+753 7+503 7+253 7+003 6+753 6+503 6+253 6+003 5+753 5+503 5+253 5+003 4+753 4+503 4+253



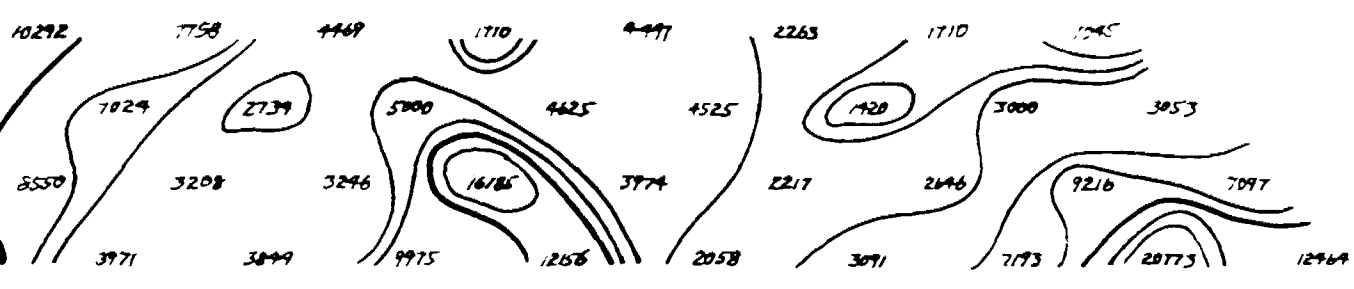
4+005 3+755 3+505 3+255 3+005 2+755 2+505 2+255 2+005 1+755 1+505 1+255 1+005 0+755 0+505 0+255 0+00 0+25N 0+50N 0+75N



0.1	0.2	0.3	0.4	0.4	0.6	0.4	0.2	0.3	0.2	0.5	0.5	0.7	0.9	1.0	
0.2	0.1	0.5	0.2	0.5	0.5	0.5	0.1	0.3	0.6	0.2	0.3	0.4	0.1	0.5	0.6
0.1	0.1	0.3	0.3	0.6	0.4	0.2	0.4	0.4	0.6	0.1	0.4	0.5	0.1	0.2	0.2
0.1	0.3	0.1	0.5	0.3	0.3	0.2	0.3	0.4	0.4	0.2	0.1	0.3	0.2	0.1	0.1



5 2+00S 1+75S 1+50S 1+25S 1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N



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SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

**H P I P SURVEY** (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode interval

FREQUENCIES : 0.3 & 5.0 Hz.

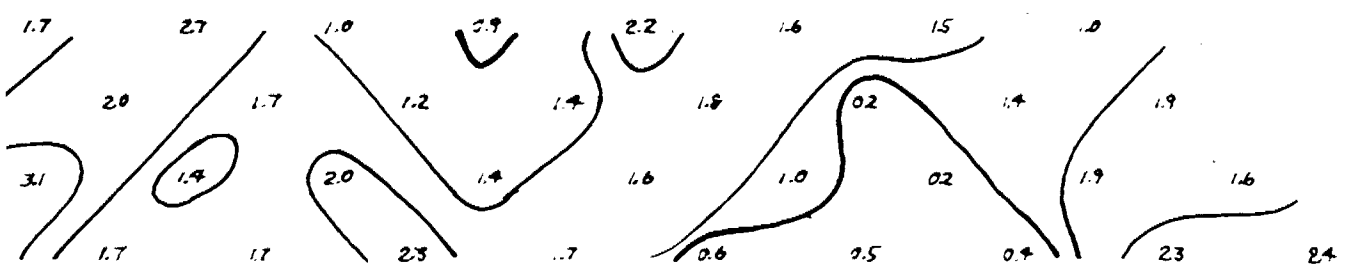
DATE:

0.2	0.3	0.2	0.5	2.5	0.7	0.9	1.0	
0.3	0.6	0.2	0.3	0.4	0.1	0.5	0.6	
0.4	0.4	0.6	0.1	0.4	0.5	0.1	0.2	0.2
0.4	0.4	0.2	0.1	0.3	0.2	0.1	0.1	0.1

MF

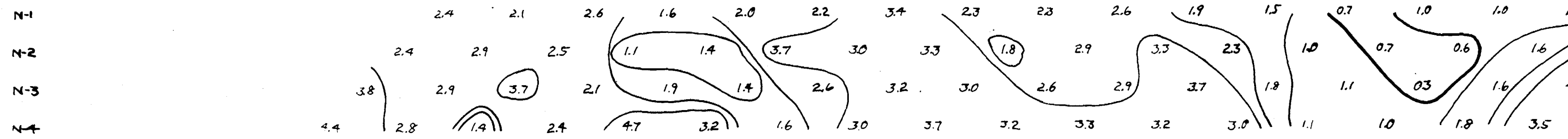
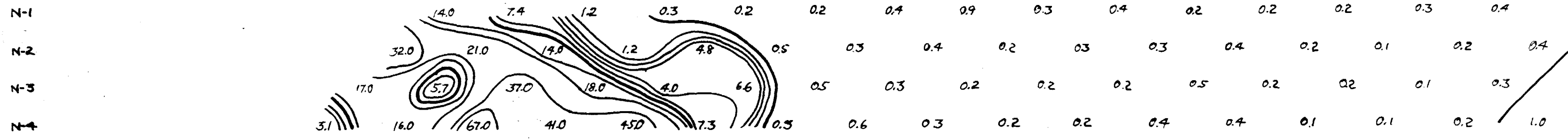
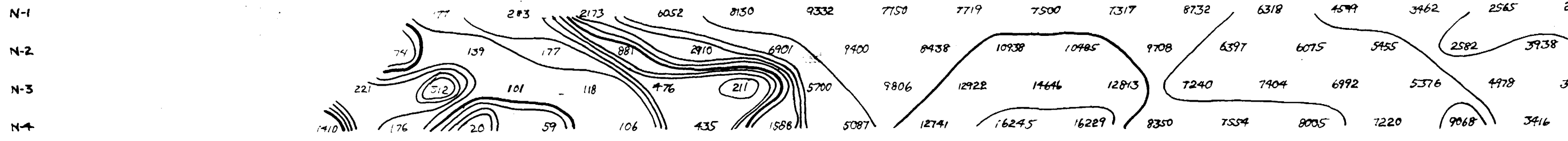
LINE: 30 E

**Mertens & MacNeil**  
 GEOPHYSICAL GROUND SURVEYS LTD.

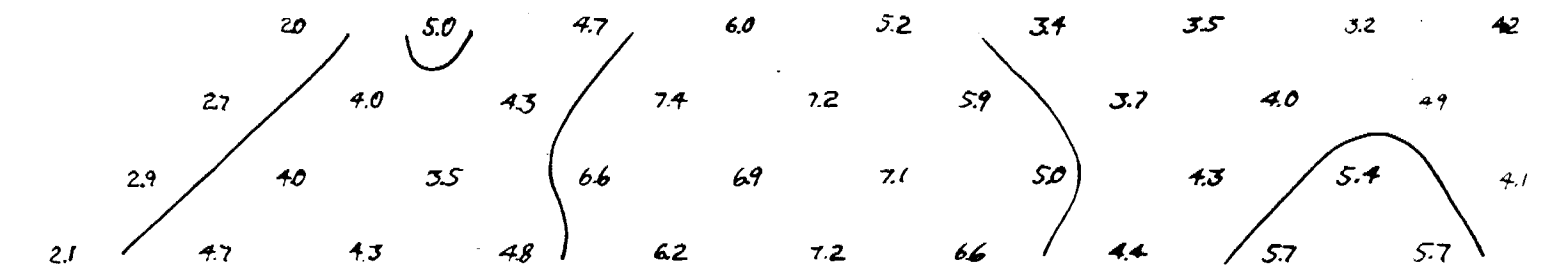
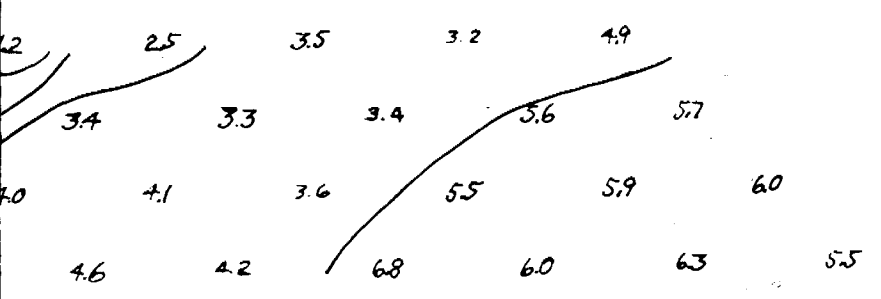
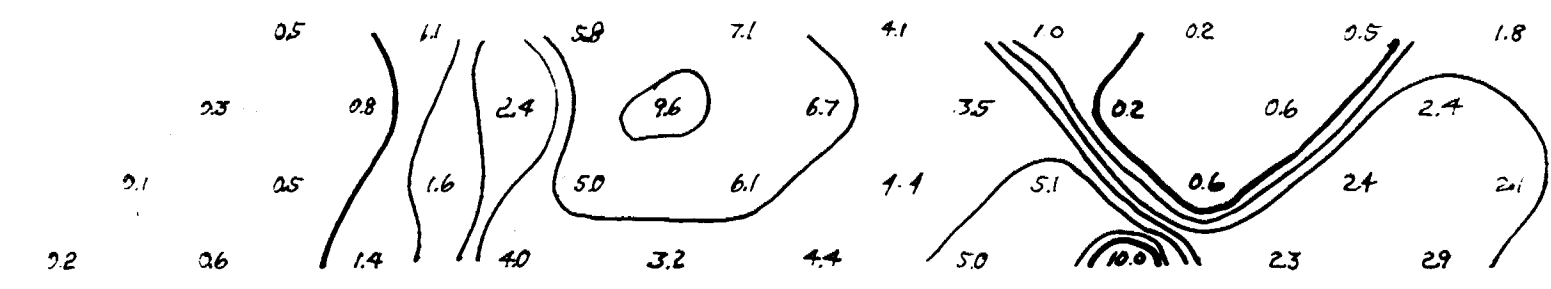
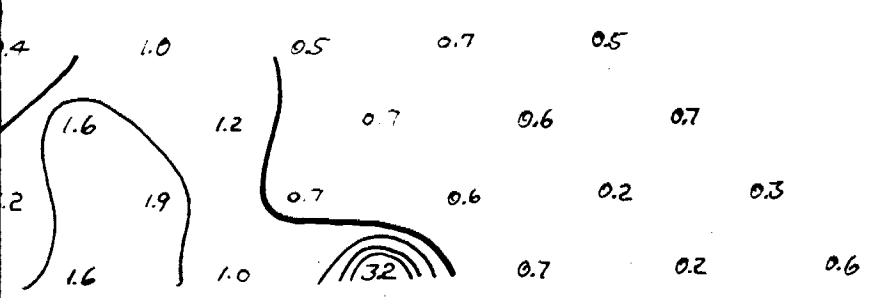
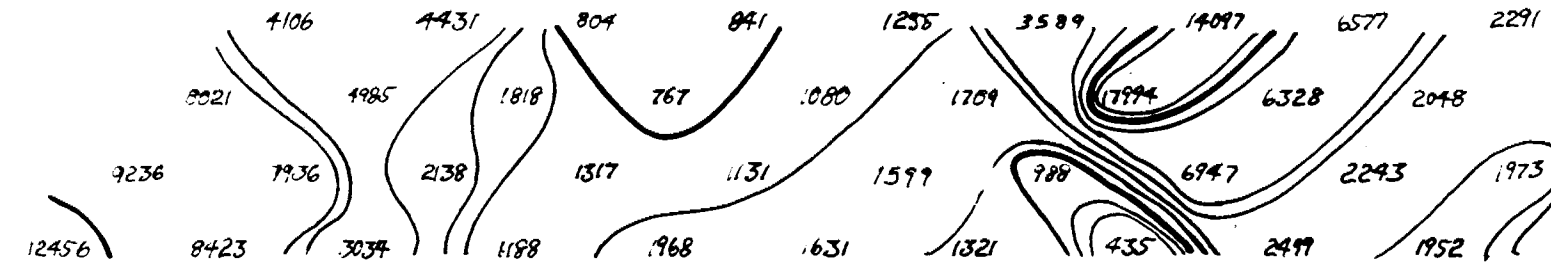
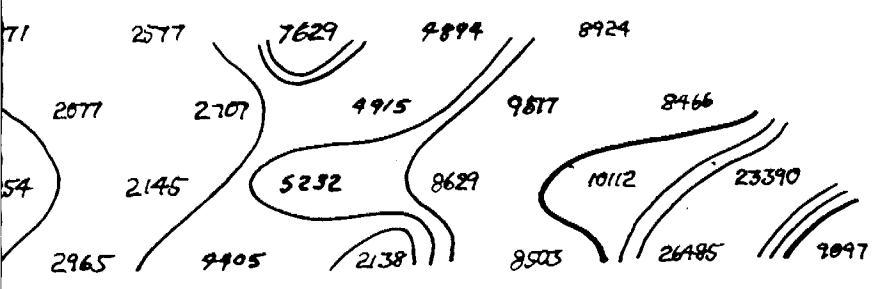


FE

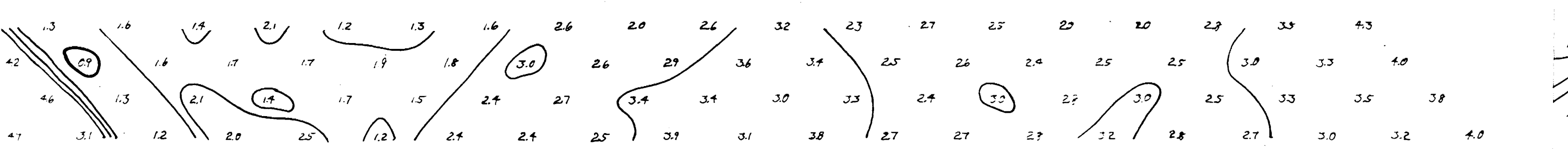
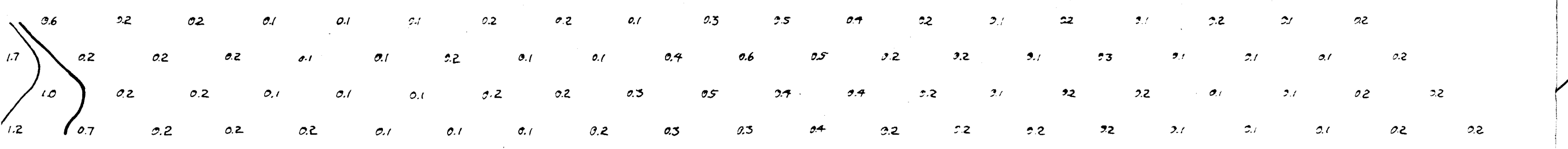
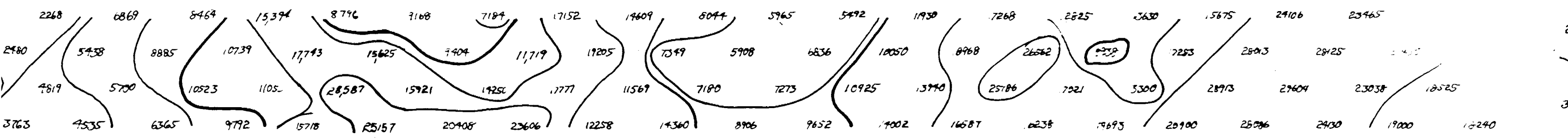
15+253 15+005 14+753 14+505 14+255 14+005 13+753 13+505 13+255 13+005 12+753 12+505 12+255 12+005 11+753 11+505 11+255 11+005 10+753 10+505



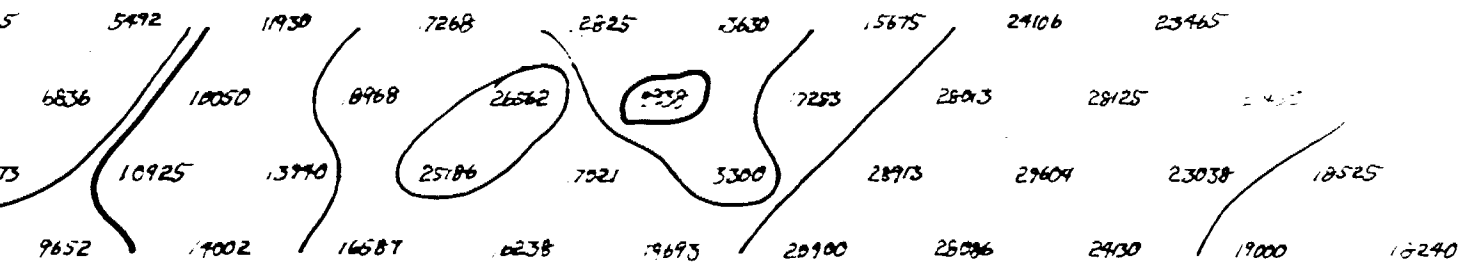
10+255 10+005 9+755 9+505 9+255 9+005 8+755 8+505 8+255 8+005 7+755 7+505 7+255 7+005 6+755 6+505 6+255 6+005 5+755 5+505 5+255



5+00.5 4+75.5 4+50.5 4+25.5 4+00.5 3+75.5 3+50.5 3+25.5 3+00.5 2+75.5 2+50.5 2+25.5 2+00.5 1+75.5 1+50.5 1+25.5 1.00.5 0+75.5 0+50.5 0+25.5 0+00 0+21



2+253 2+003 1+753 1+503 1+253 1.003 0+753 0+503 0+253 0+00 0+25N 0+50N 0+75N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0 m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

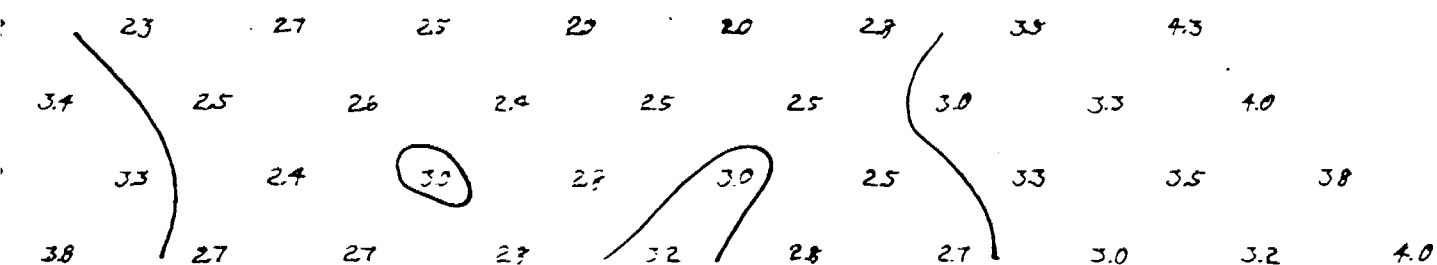
DATE:

LINE : 32 E

0.4	0.2	0.1	0.2	0.1	0.2	0.1	0.2
0.5	0.2	0.2	0.1	0.3	0.1	0.1	0.1
0.4	0.2	0.1	0.2	0.2	0.1	0.1	0.2
0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1

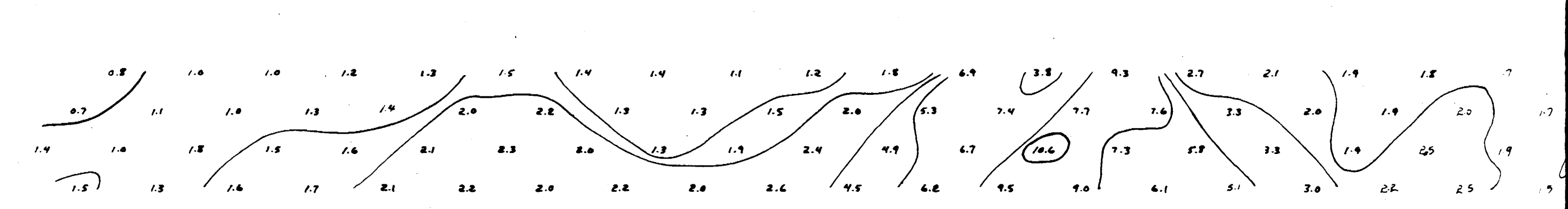
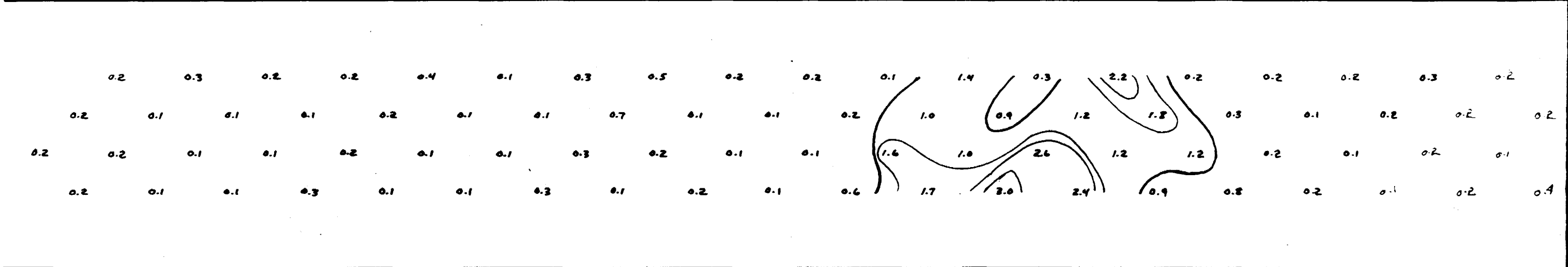
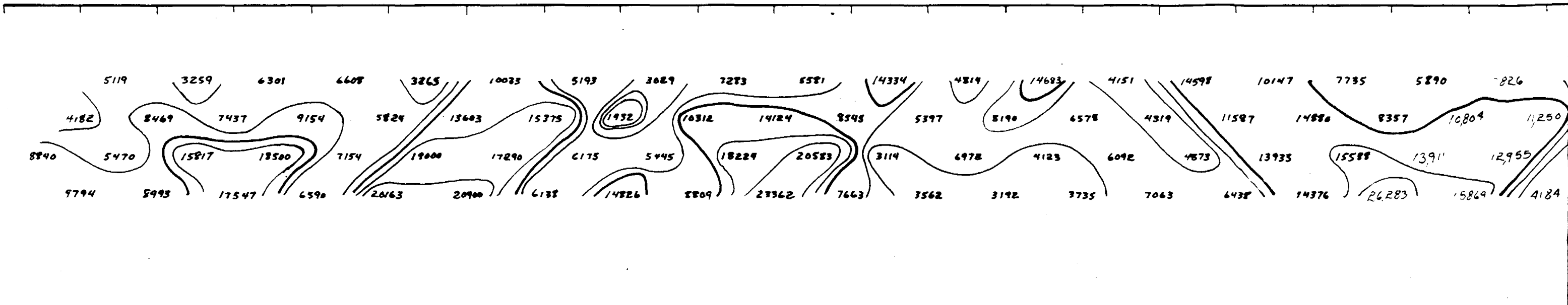
M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



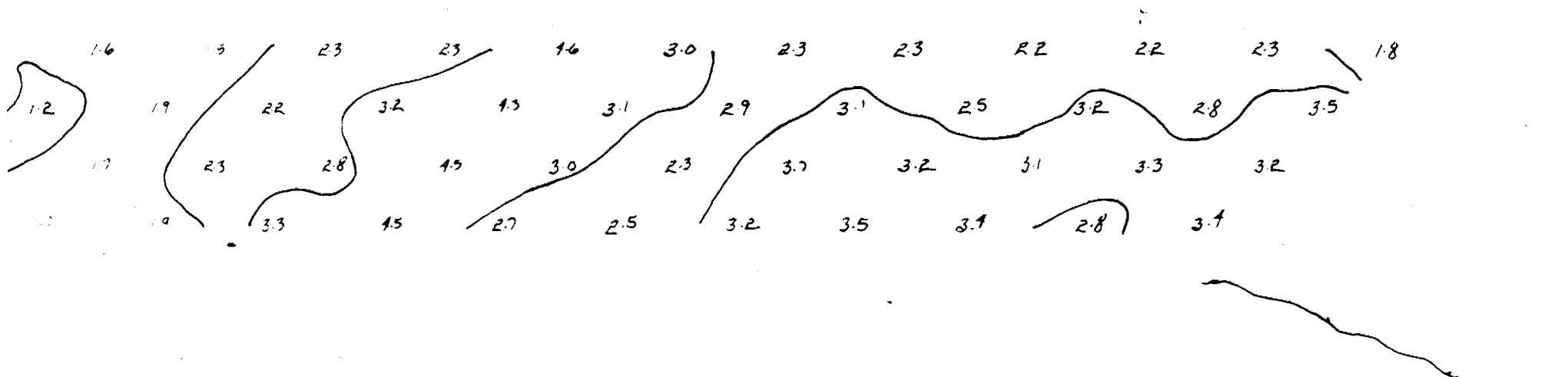
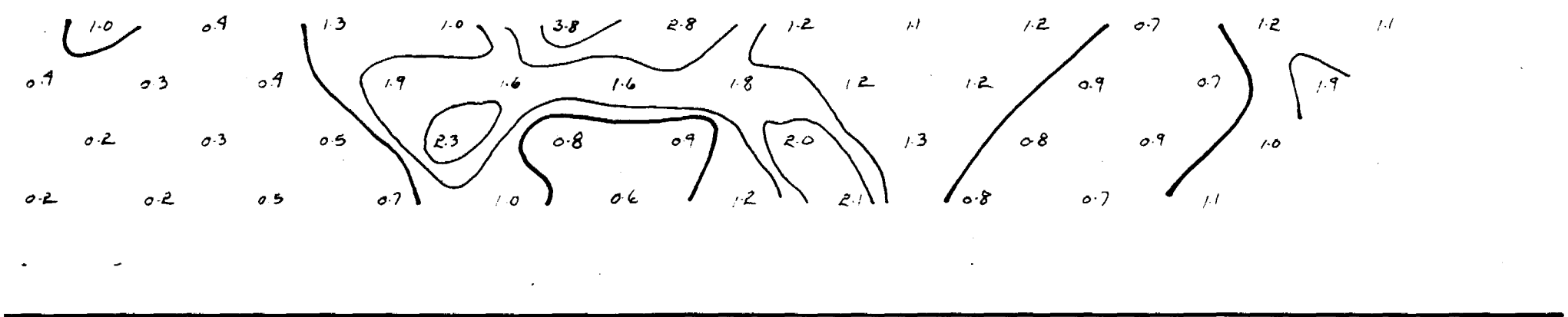
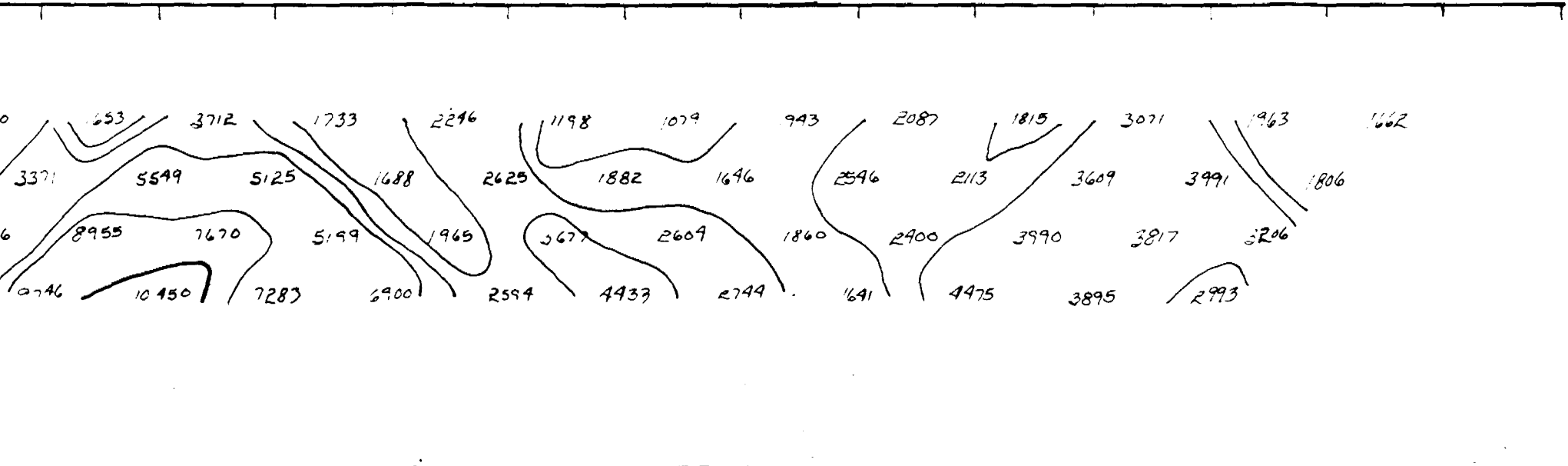
F.E.

4+00 3+75 3+50 3+25 3+00 2+75 2+50 2+25 2+00 1+75 1+50 1+25 1+00 0+75 0+50 0+25 0+00 0+25 0+50 0+75 1+00





1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N 4+50N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

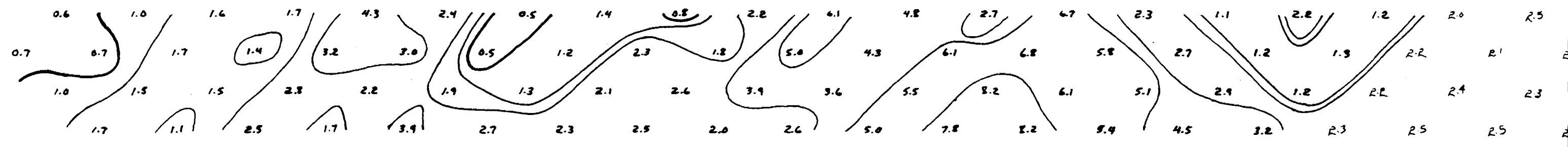
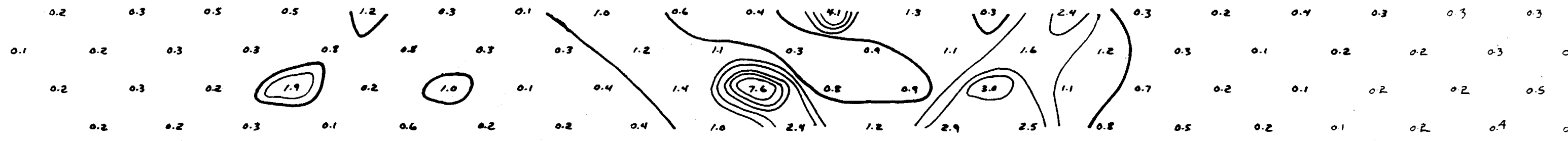
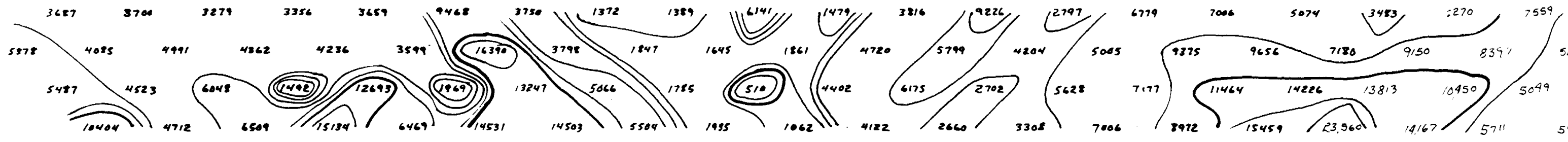
LINE: I W

M.F.

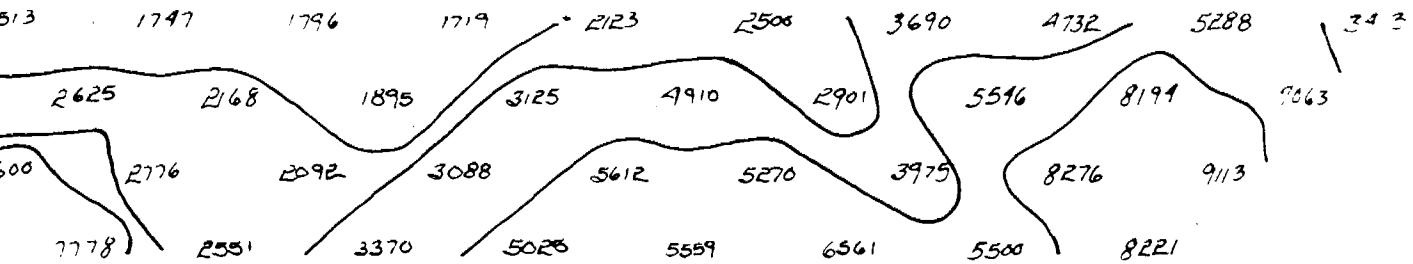
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

4+003 3+753 3+503 3+253 3+003 2+753 2+503 2+253 2+003 1+753 1+503 1+253 1+003 0+753 0+503 0+253 0+00 0+25M 0+50M 0+75M 1+00M 1+



2.00N 2.25N 2.50N 2.75N 3.00N 3.25N 3.50N 3.75N 4.00N 4.25N 4.50N



Q

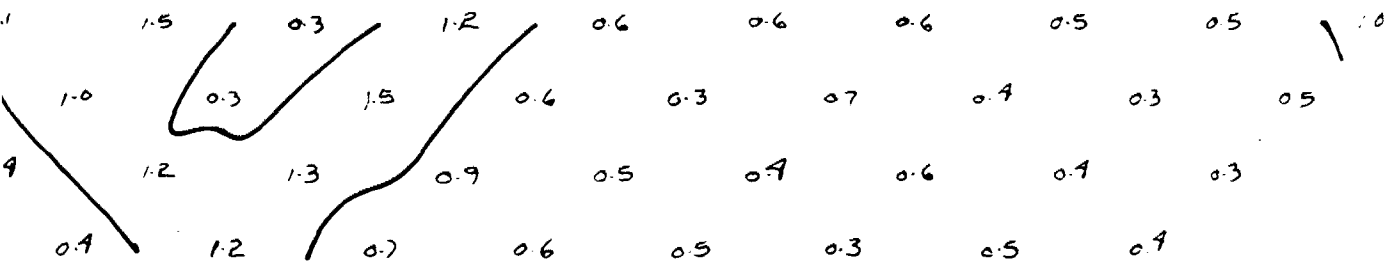
SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

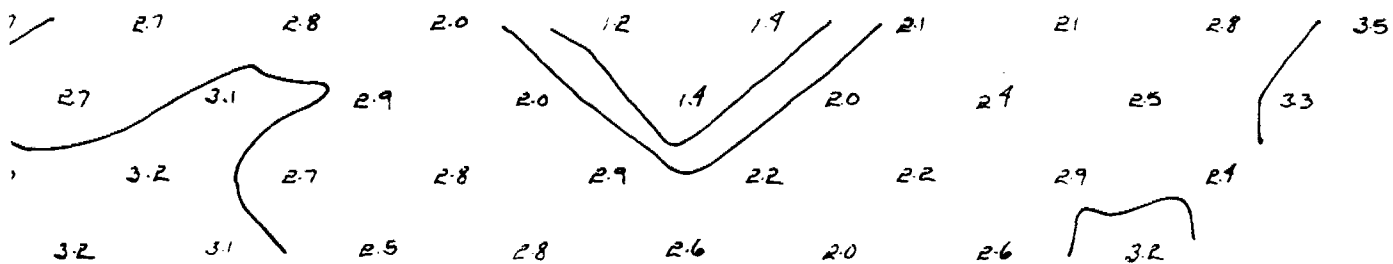
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:



M.F.

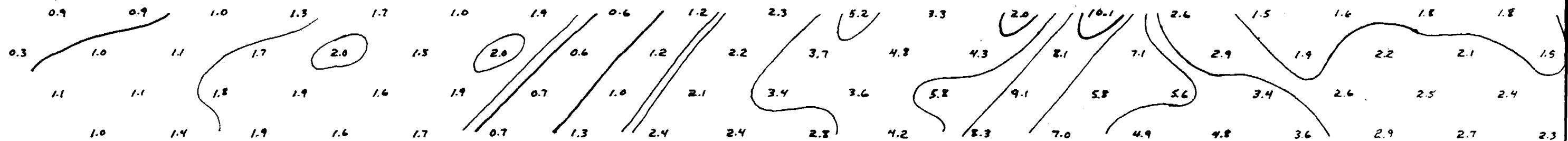
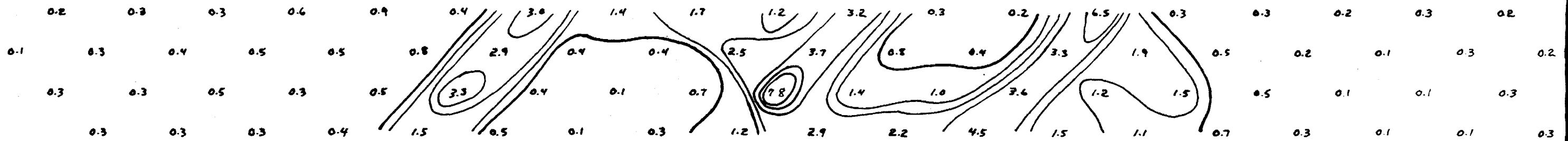
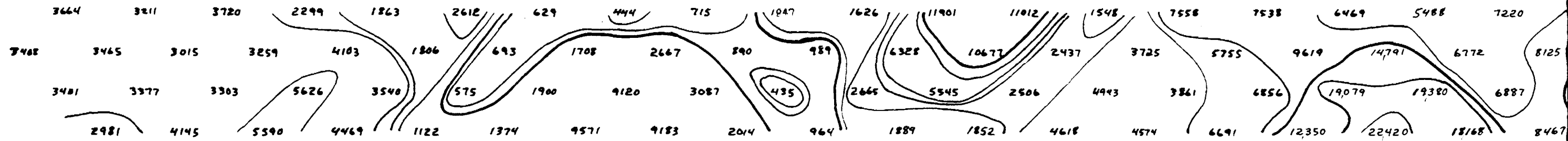
LINE: 2 W



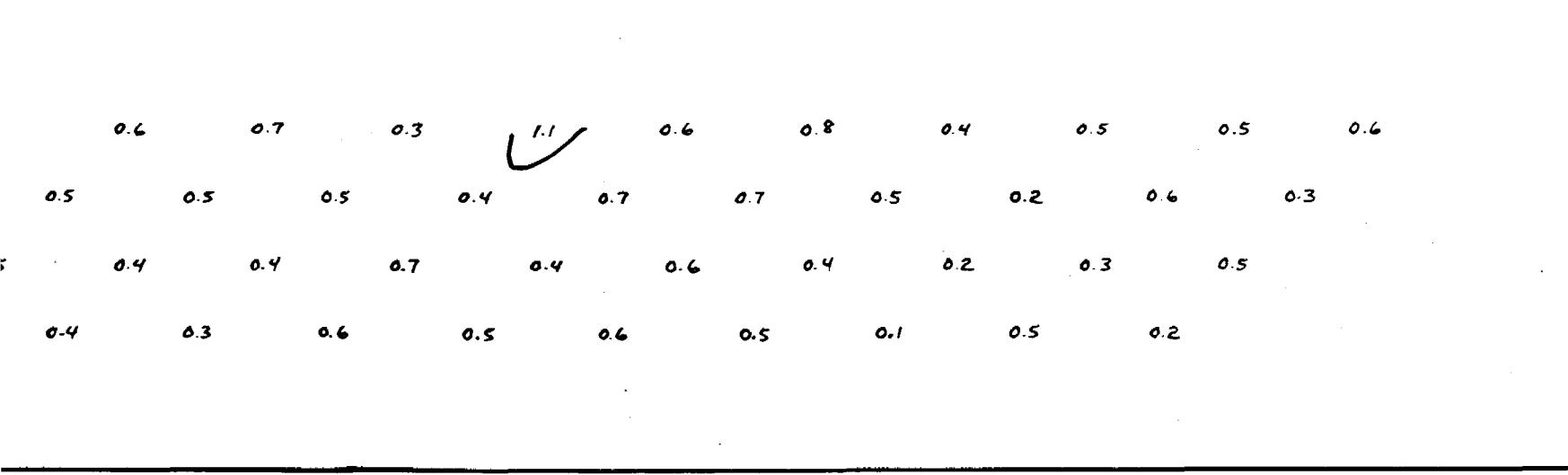
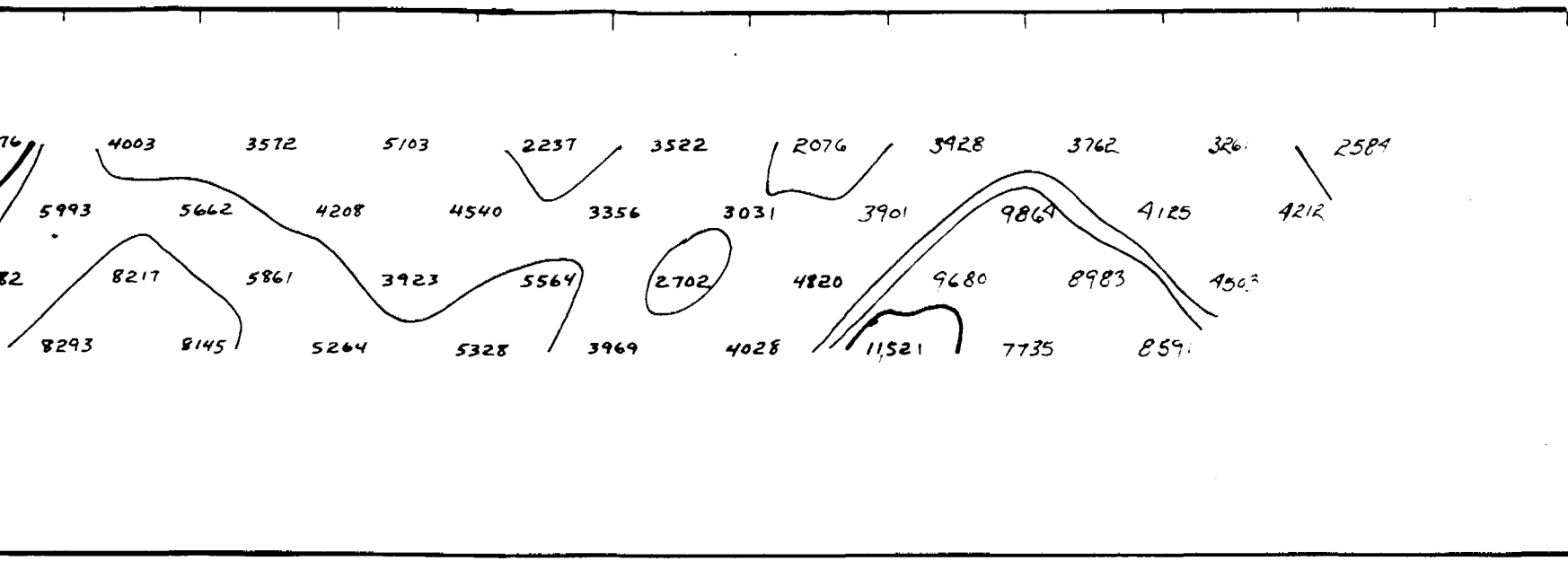
F.E.

Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

4+00 3+75 3+50 3+25 3+00 2+75 2+50 2+25 2+00 1+75 1+50 1+25 1+00 0+75 0+50 0+25 0+00 0+25N 0+50N 0+75N 1+00



1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N 4+25N



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

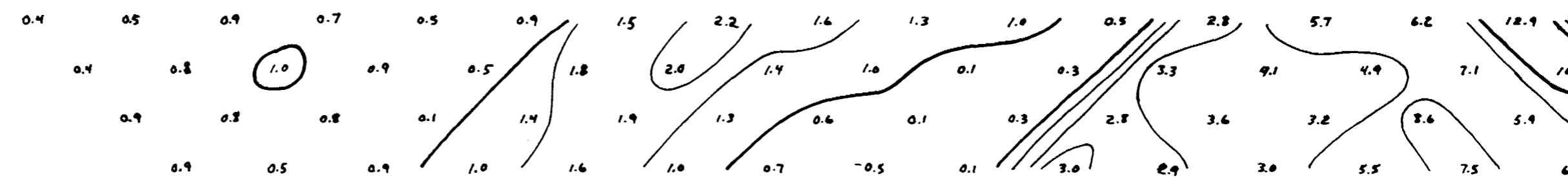
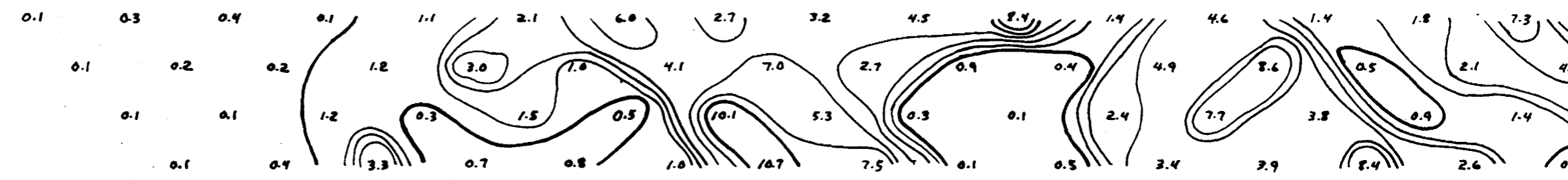
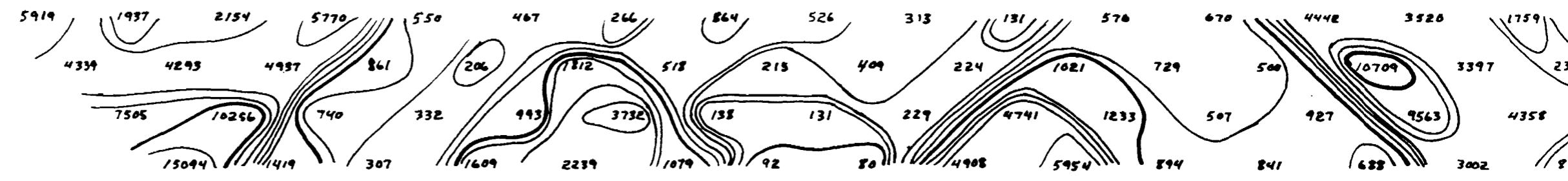
LINE: 3 W

M.F.

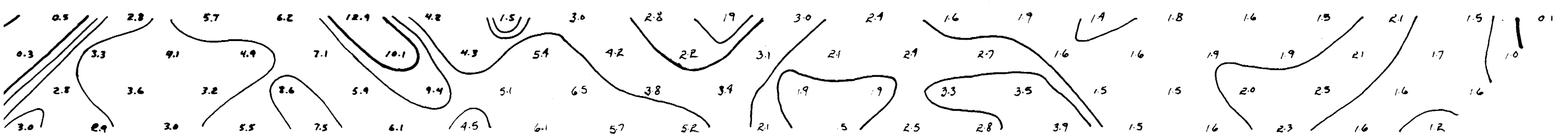
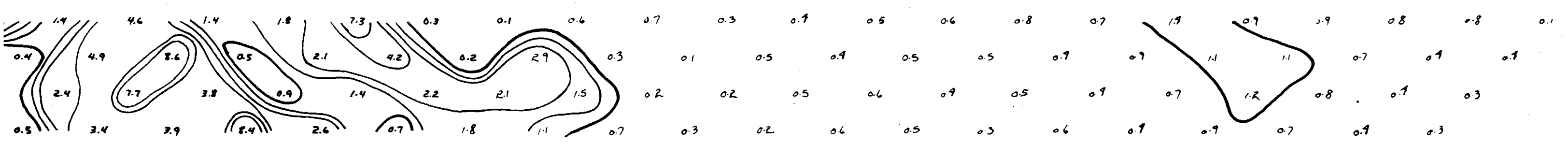
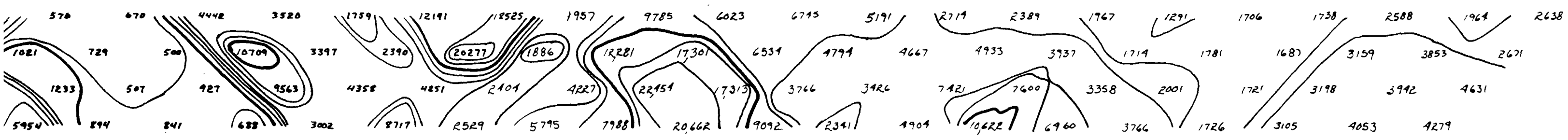
Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

F.E.

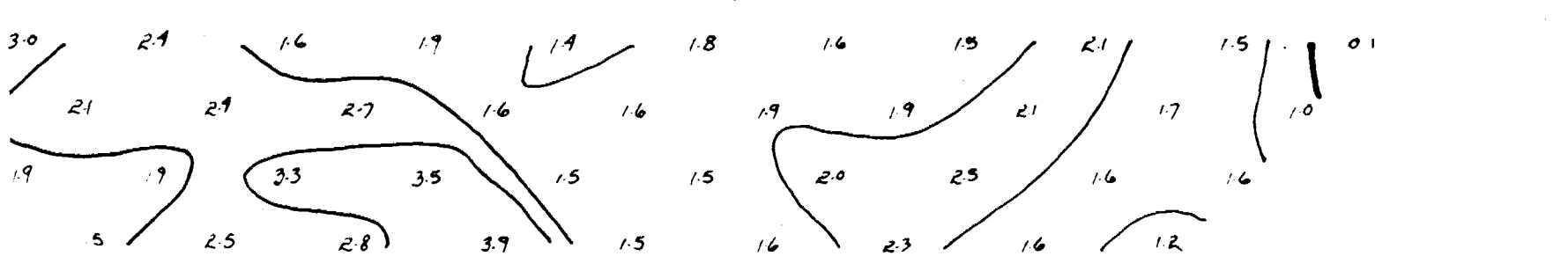
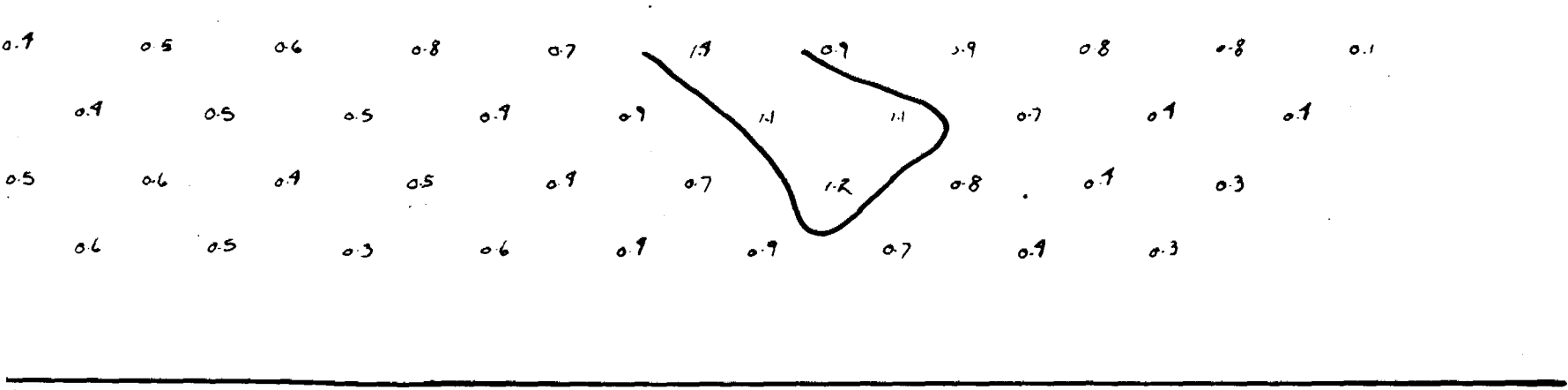
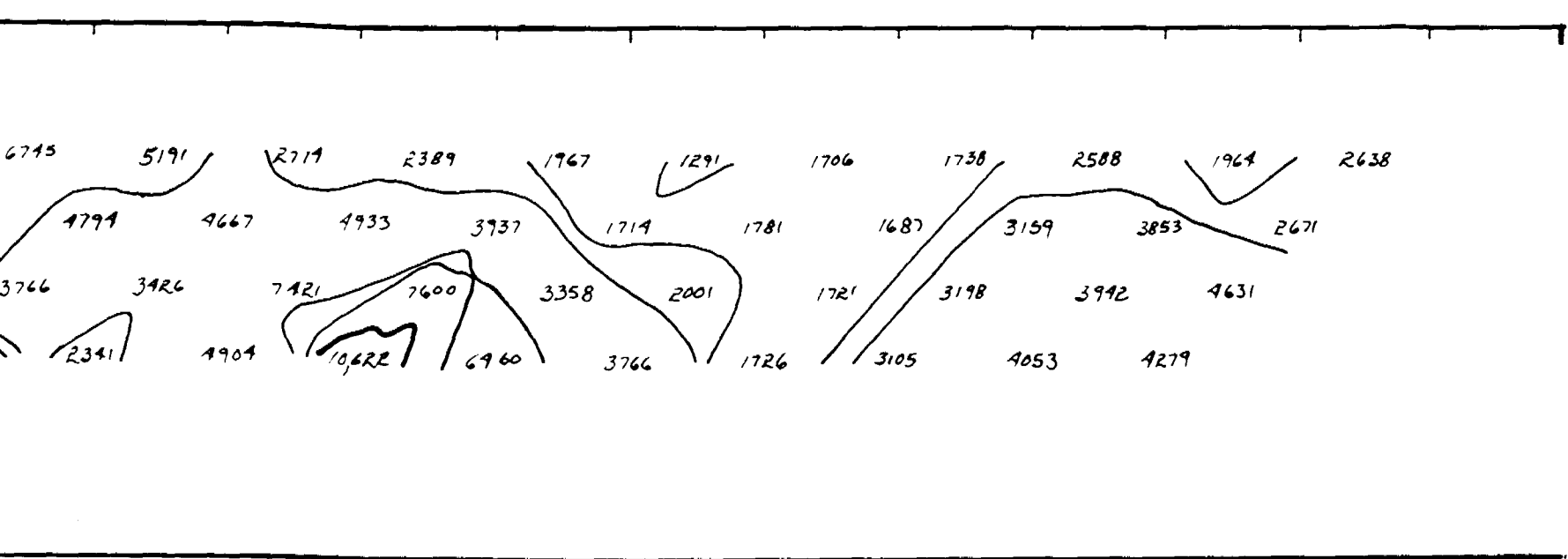
5.503 5.253 5.003 4.753 4.503 4.253 4.003 3.753 3.503 3.253 3.003 2.753 2.503 2.253 2.003 1.753 1.503 1.253 1.003 0.753 0.503



1+753 1+503 1+253 1+003 0+753 0+503 0+253 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N



1.00N 1.25N 1.50N 1.75N 2.00N 2.25N 2.50N 2.75N 3.00N 3.25N 3.50N 3.75N



SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)  
 SCALE : 2.0 cm = 25.0 m = Electrode Interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE :

LINE : 4 W

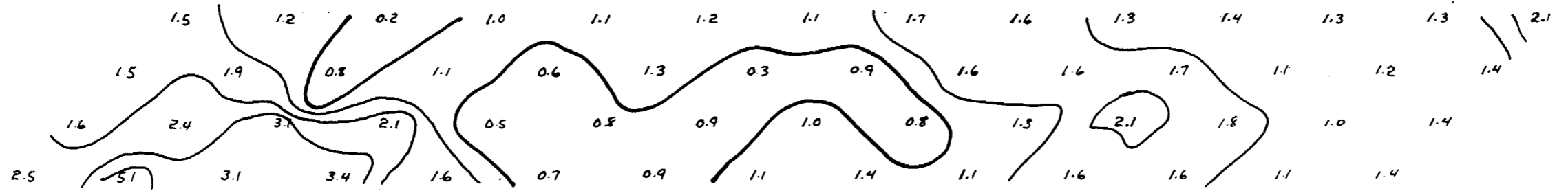
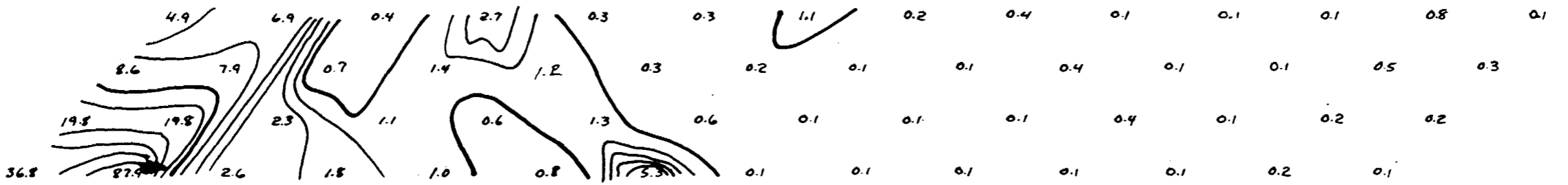
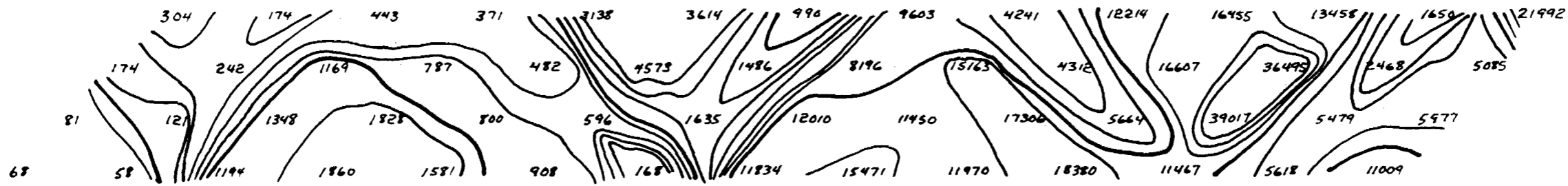
M.F.

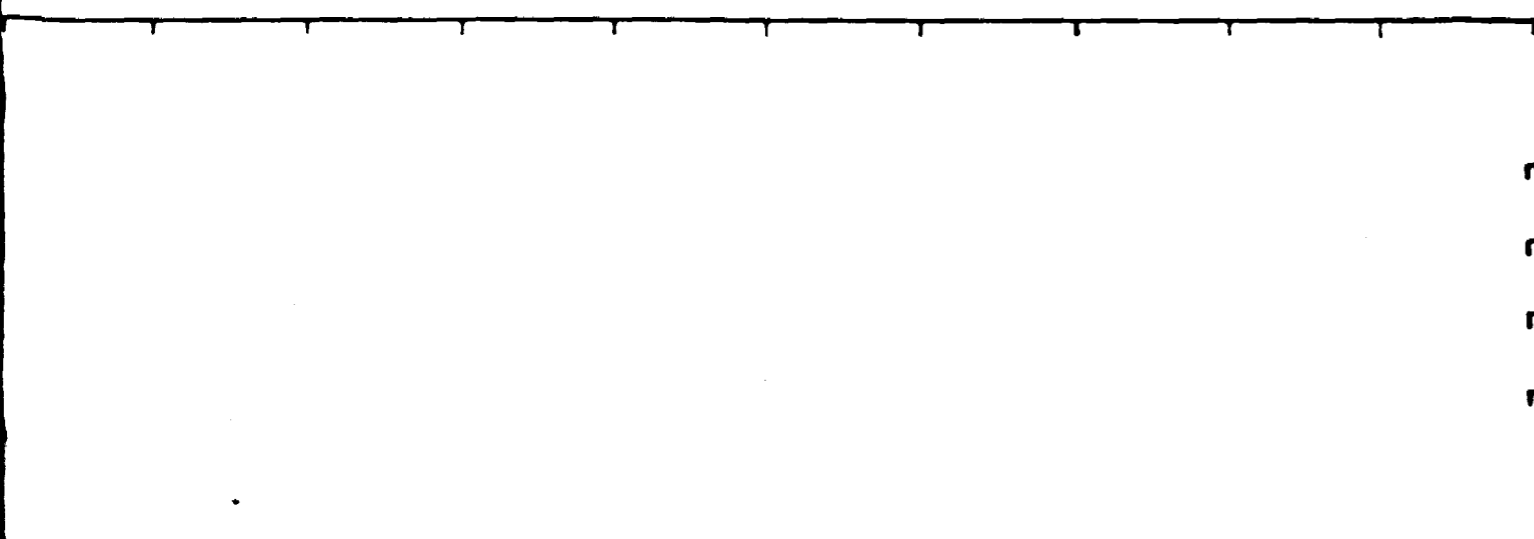
Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

F.E.



10+500 10+250 10+000 9+750 9+500 9+250 9+000 8+750 8+500 8+250 8+000 7+750 7+500 7+250 7+000 6+750 6+500 6+250 6+000





Q_a

- n=1
- n=2
- n=3
- n=4

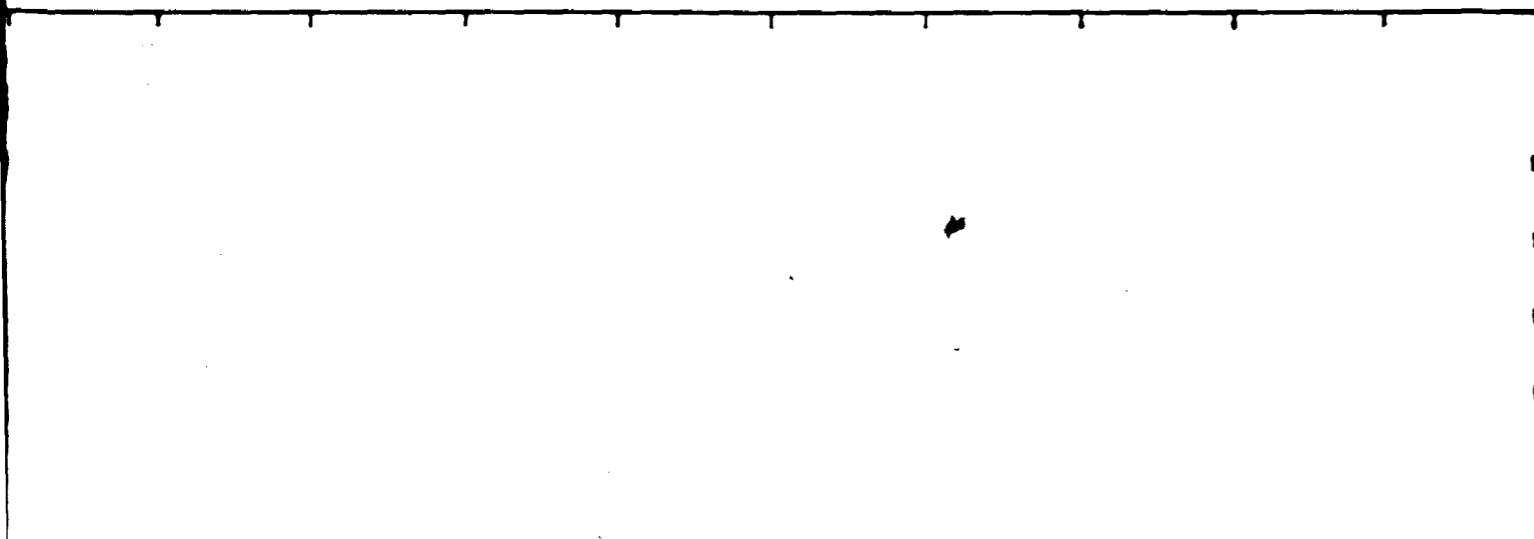
SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

HPIP SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

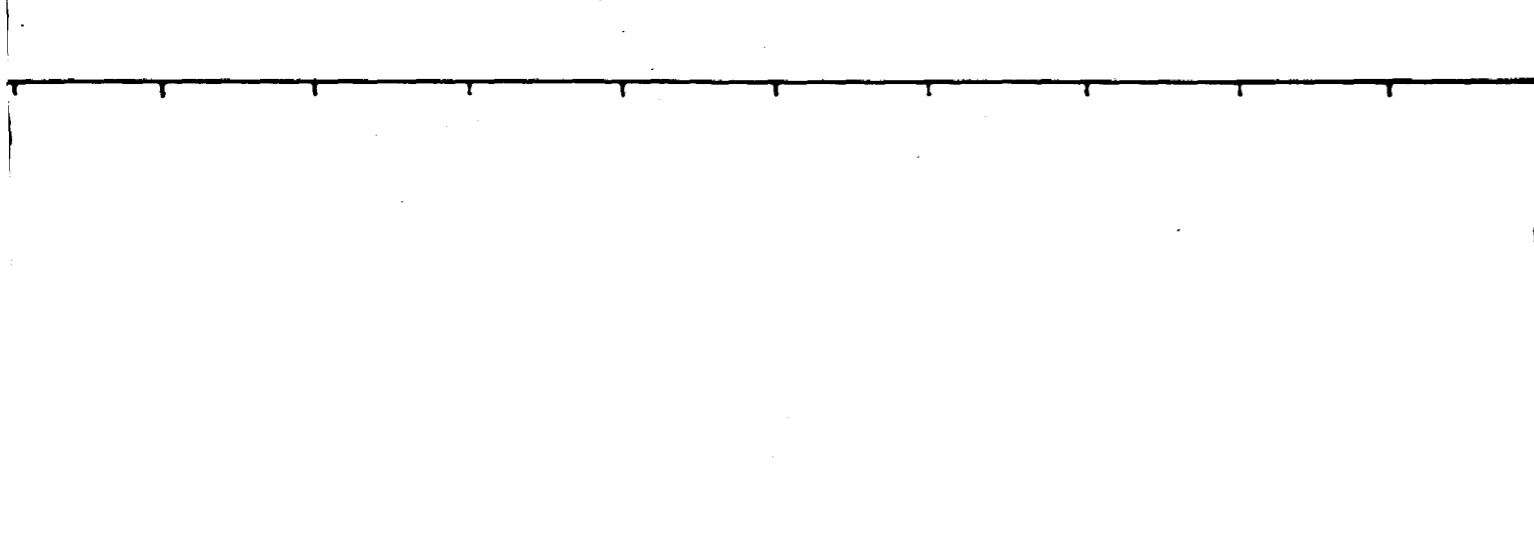


MF

- n=1
- n=2
- n=3
- n=4

LINE : 5w

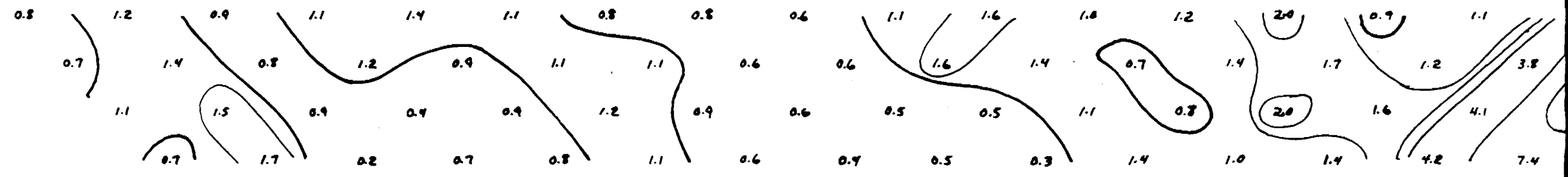
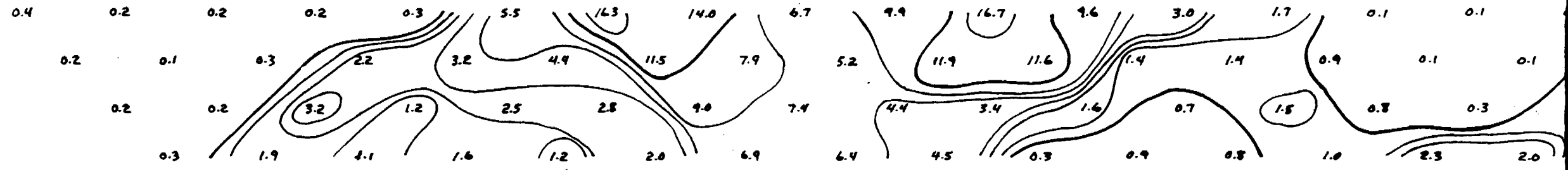
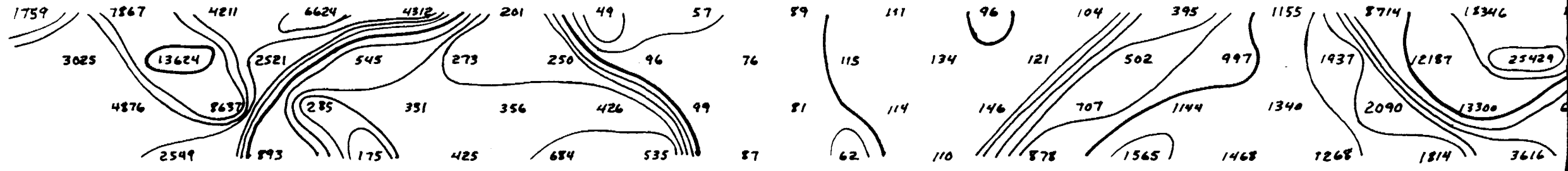
Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.



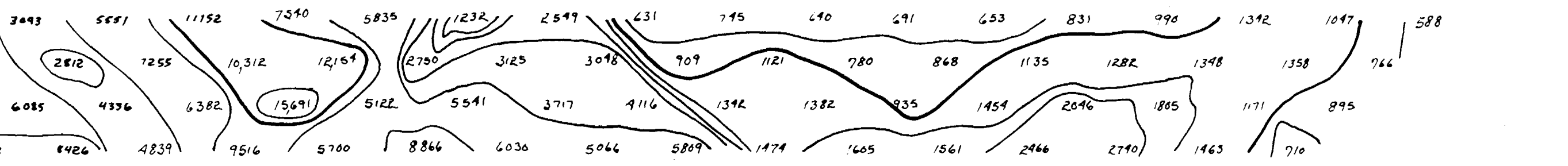
C.F.E

- n=1
- n=2
- n=3
- n=4

5.75 5.50 5.25 5.00 4.75 4.50 4.25 4.00 3.75 3.50 3.25 3.00 2.75 2.50 2.25 2.00 1.75 1.50 1.25 1.00 0.75

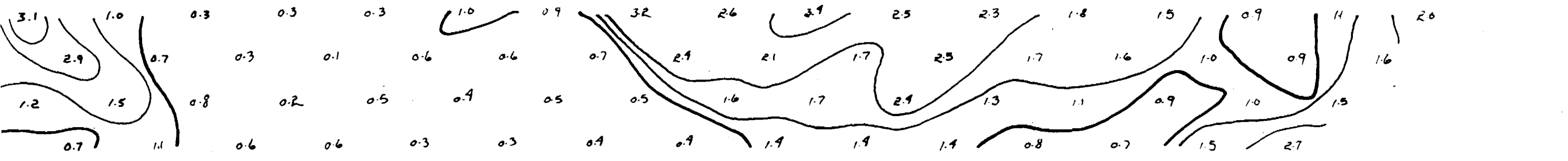


0+255 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N



Ca

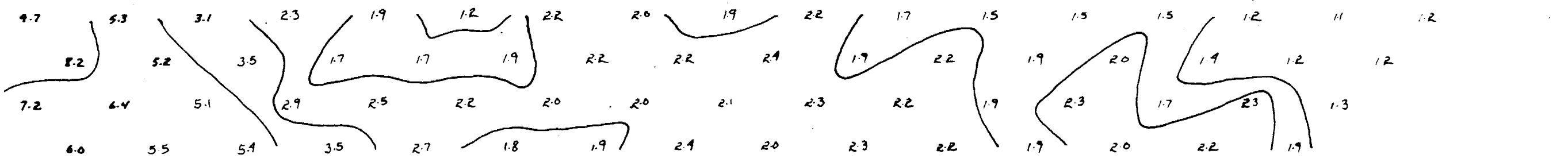
SPARTI  
STRAW  
FORT  
HPI  
SCALE:  
FREQUEN  
DATE:



M.F.

LINE:

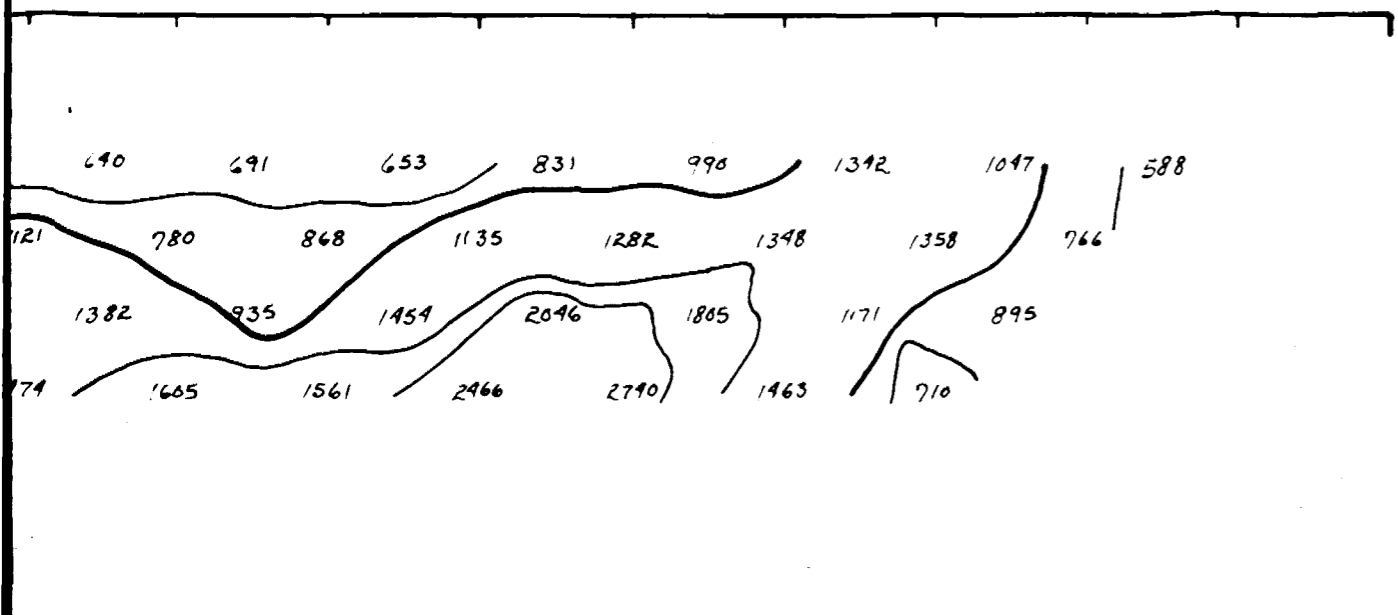
ROAD



F.E.

Mertens  
GEOPHYSIC

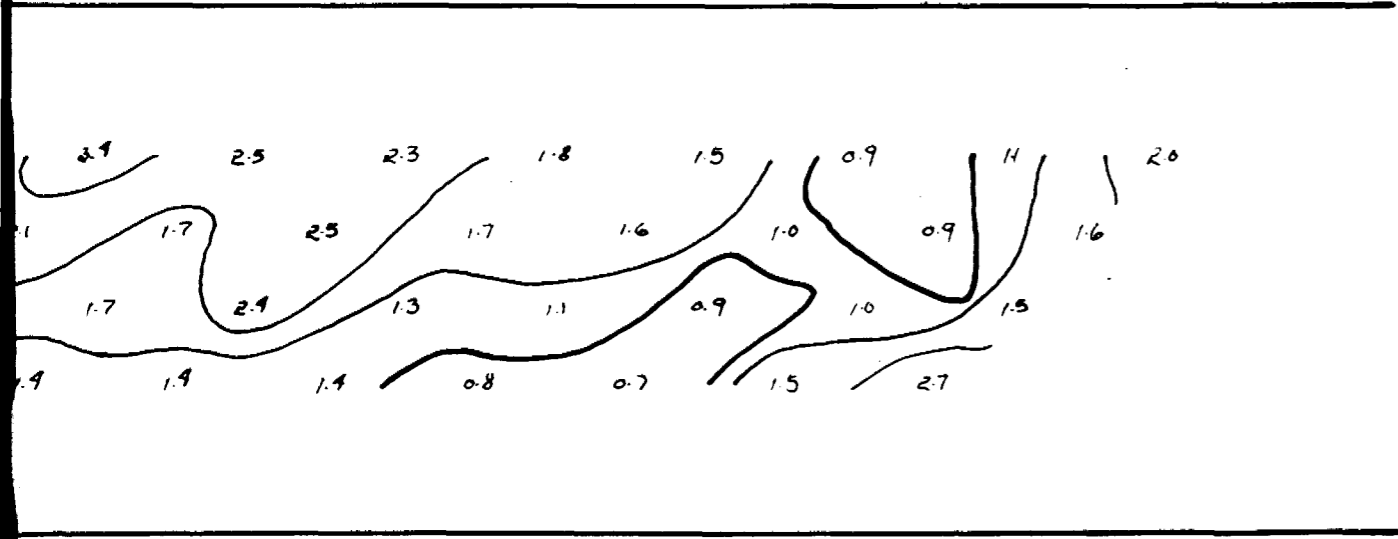
1.75N 2.00N 2.25N 2.50N 2.75N 3.00N 3.25N 3.50N 3.75N 4.00N



Ca

SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

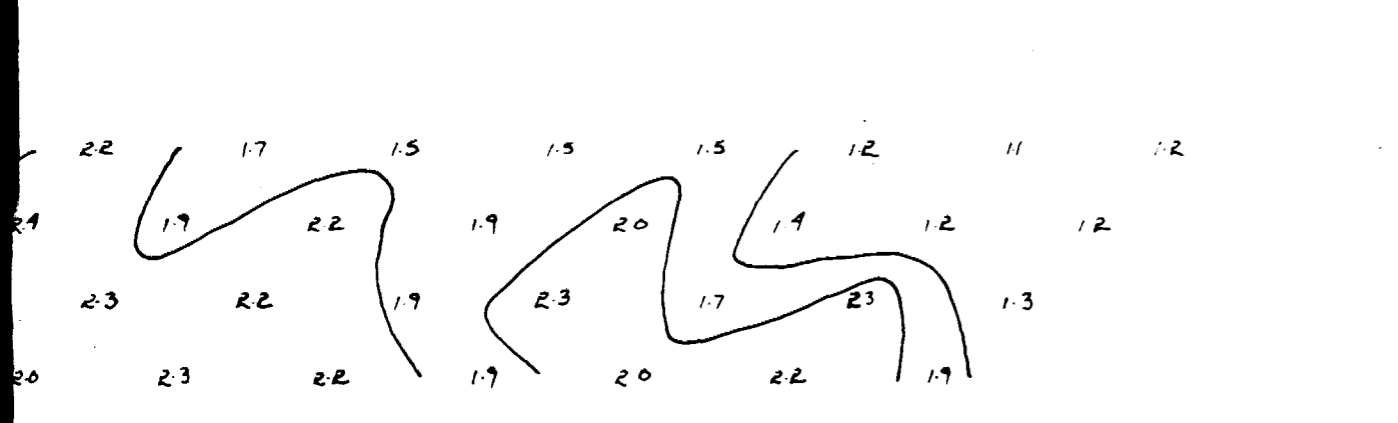
H P I P SURVEY (DIPOLE-DIPOLE)  
 SCALE : 2.0 cm = 25.0m = Electrode interval  
 FREQUENCIES : 0.3 & 5.0 Hz.  
 DATE :



M.F.

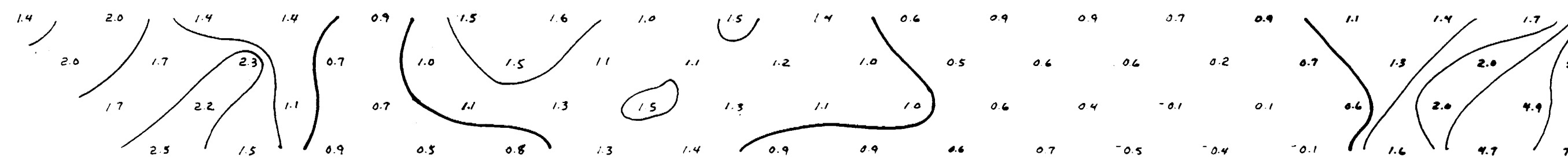
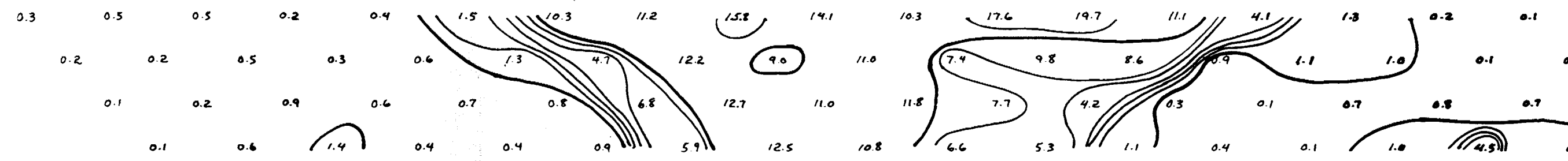
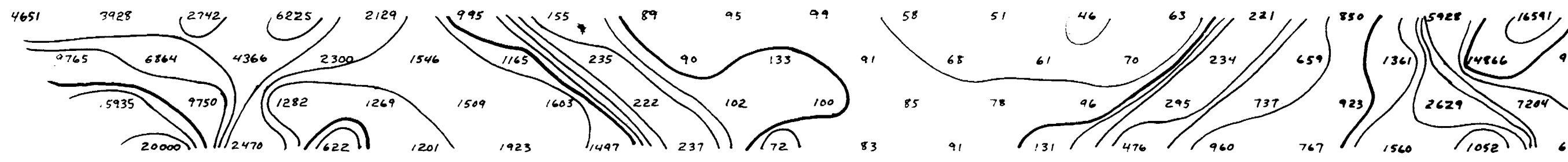
LINE : 5 W

Mertens & MacNeil  
 GEOPHYSICAL GROUND SURVEYS LTD.

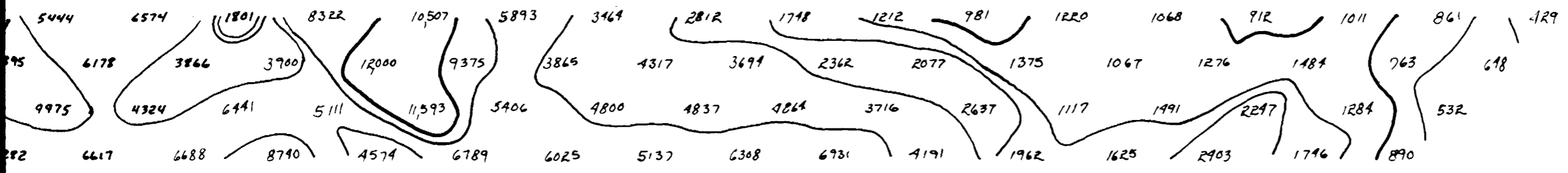


F.E.

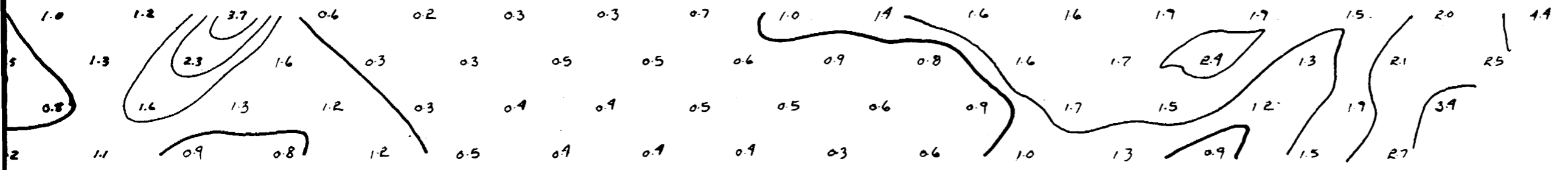
6+00 5+75 5+50 5+25 5+00 4+75 4+50 4+25 4+00 3+75 3+50 3+25 3+00 2+75 2+50 2+25 2+00 1+75 1+50 1+25 1+00 0



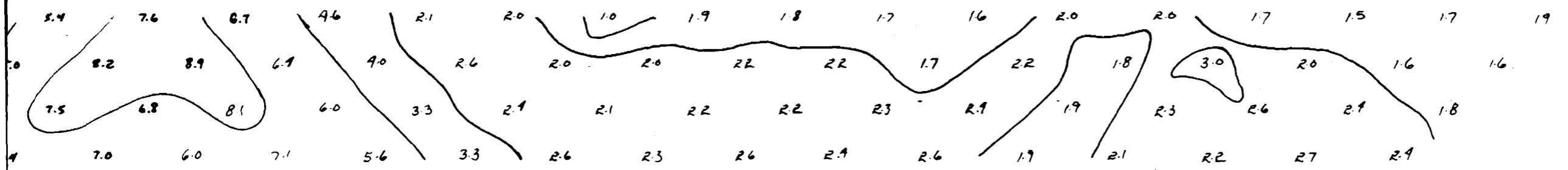
0.75N 0+50N 0+25N 0+00N 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



2a



M.F.



F.E.

2+00M 2+25M 2+50M 2+75M 3+00M 3+25M 3+50M 3+75M

SPARTON RESOURCES INC

# STRAW LAKE PROJECT FORT FRANCIS, ONTARIO.

e_a

## H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

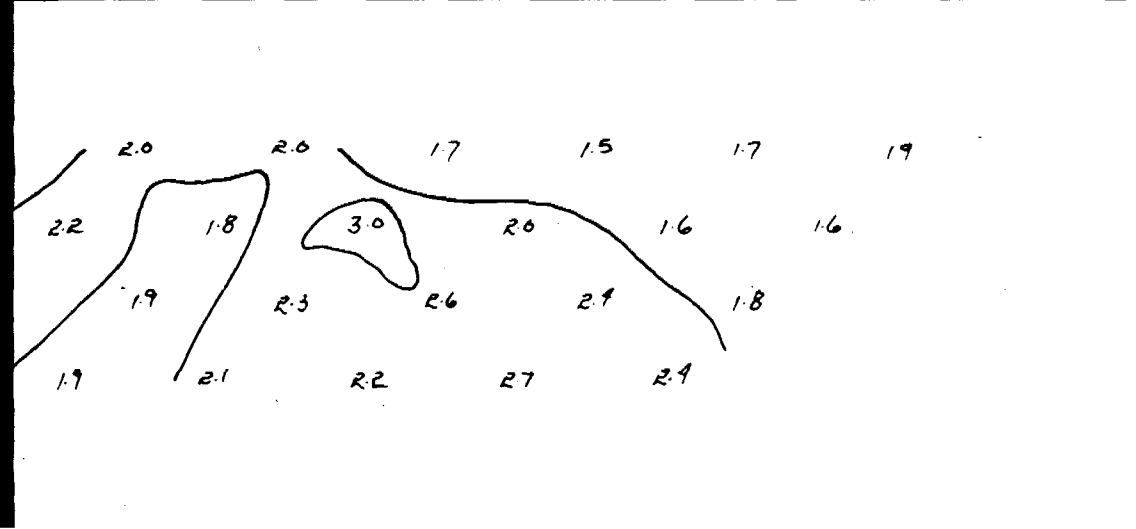
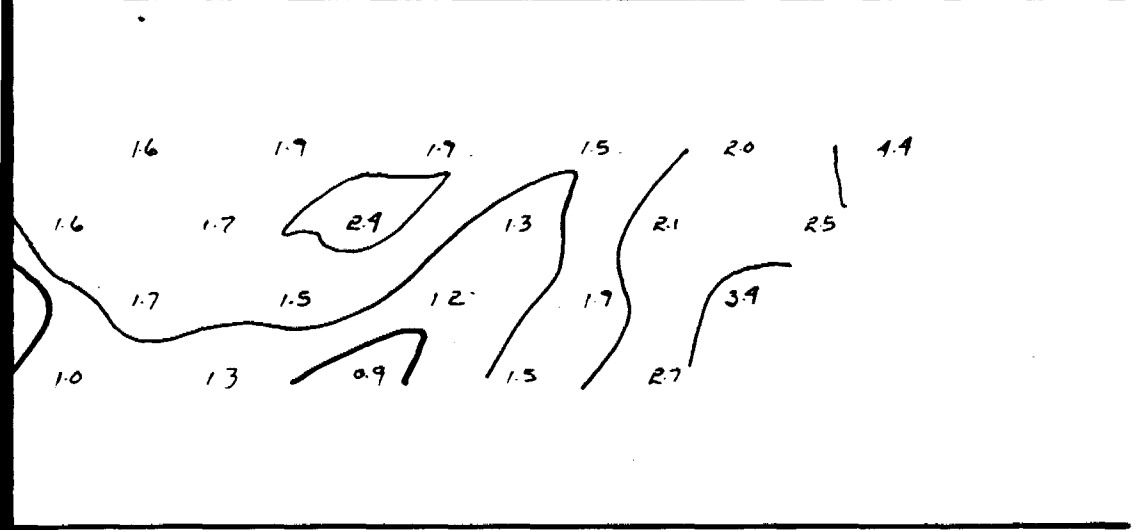
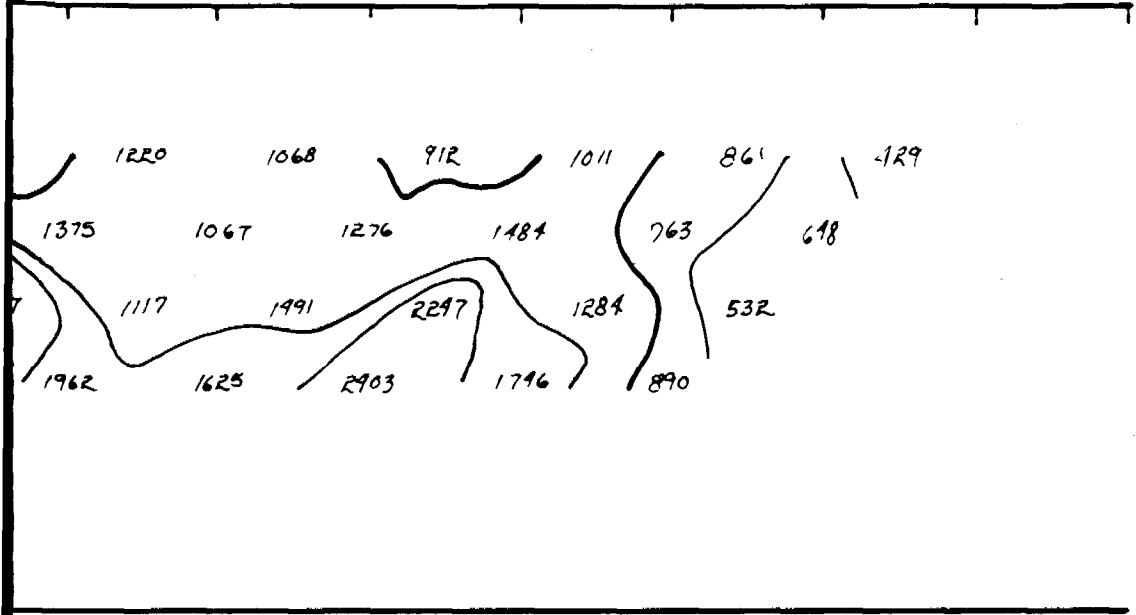
DATE:

### LINE: 6 W

M.F.

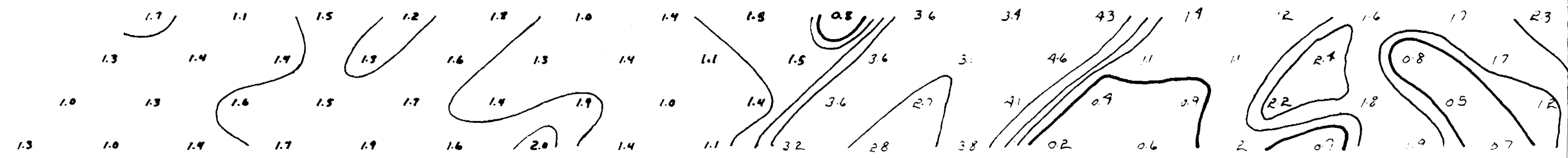
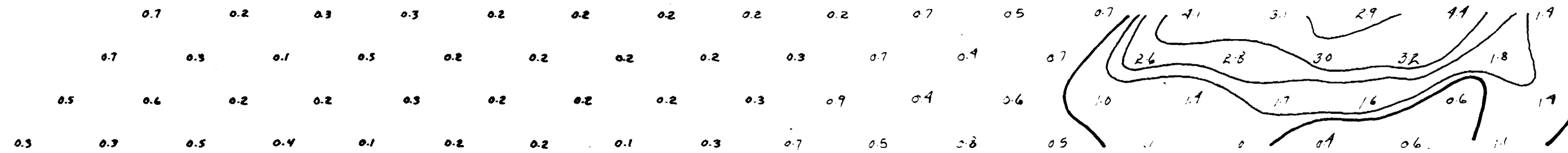
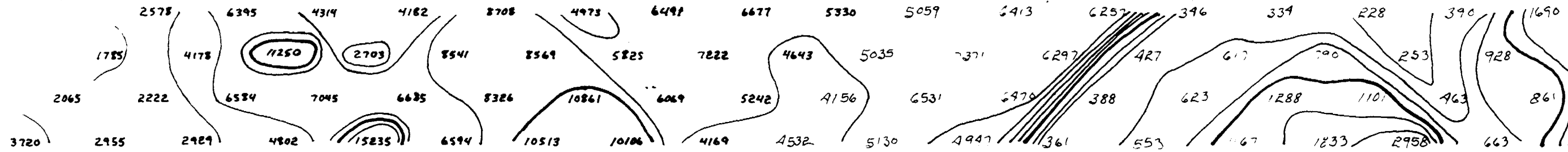
**Mertens & MacNeil**  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E

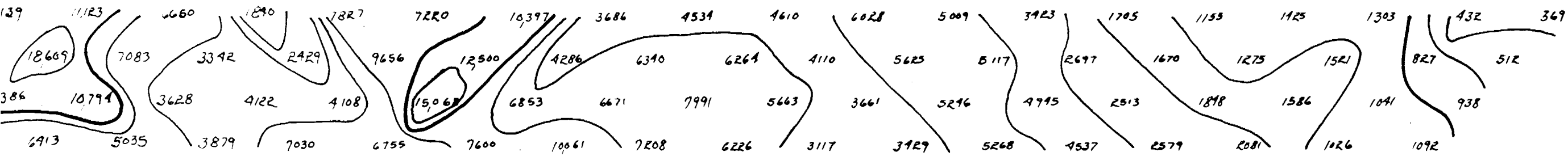




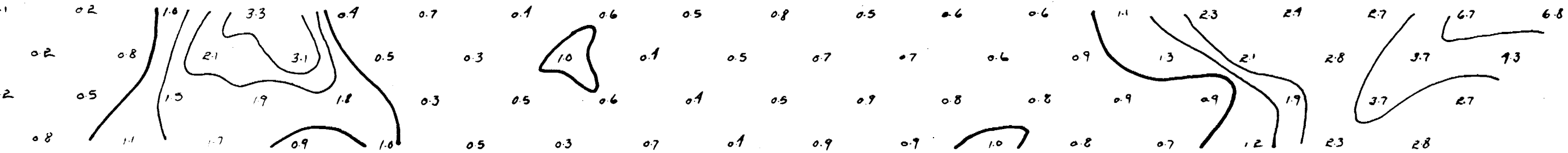
6+783 6+503 6+283 6+063 5+783 5+603 5+283 5+003 4+753 4+503 4+253 4+003 3+753 3+503 3+253 3+003 2+783 2+503 2+253 2+003 1+783



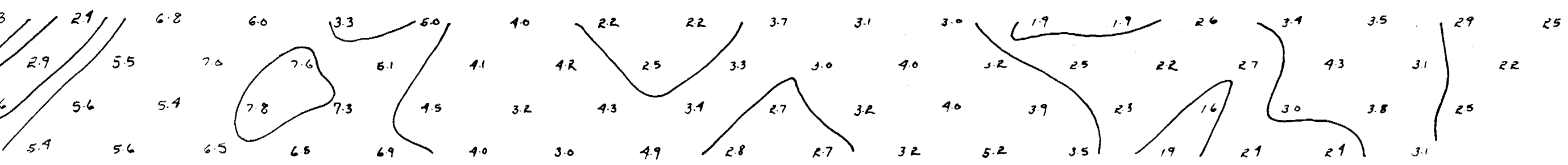
1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



20

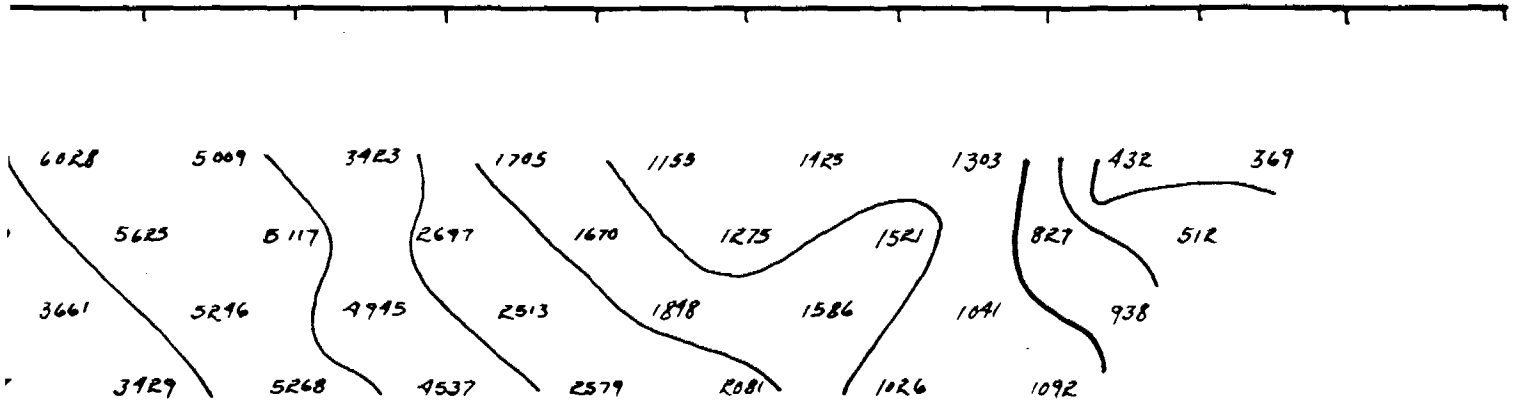


M.F.



F.E.

5M 1+50M 1+75M 2+00M 2+25M 2+50M 2+75M 3+00M 3+25M 3+50M 3+75M



20

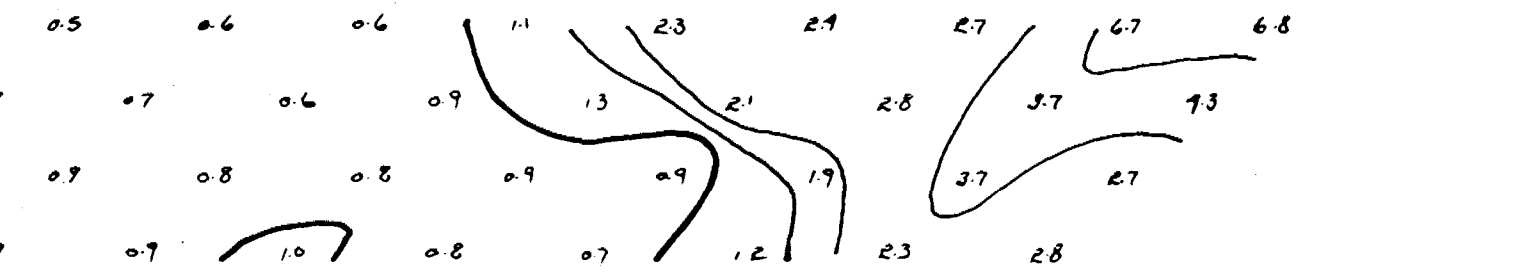
SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

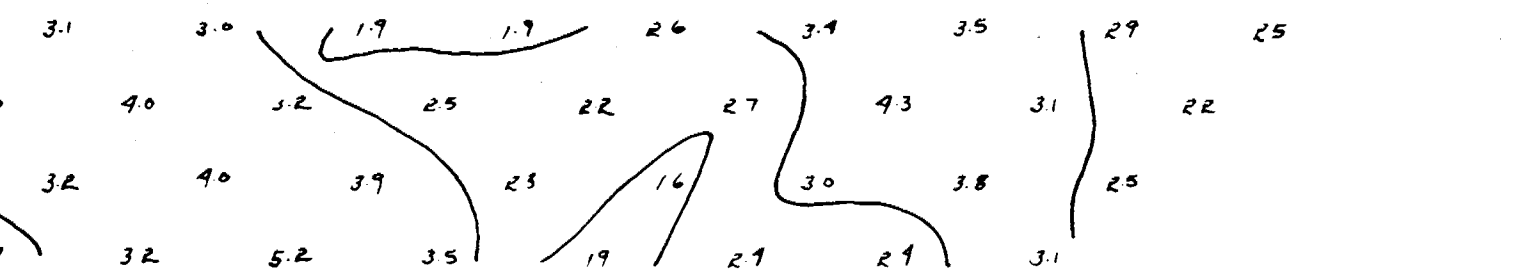
DATE:



M.F.

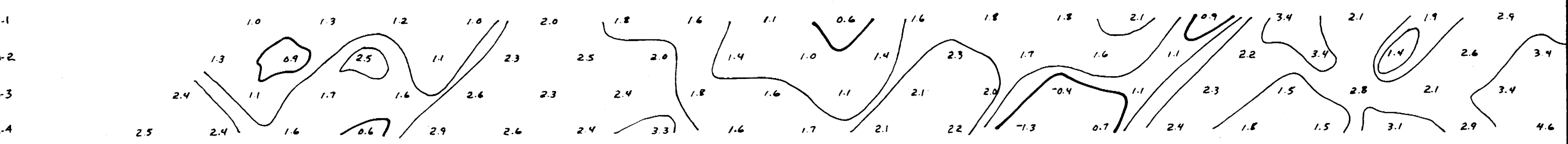
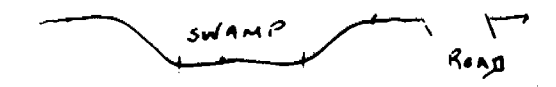
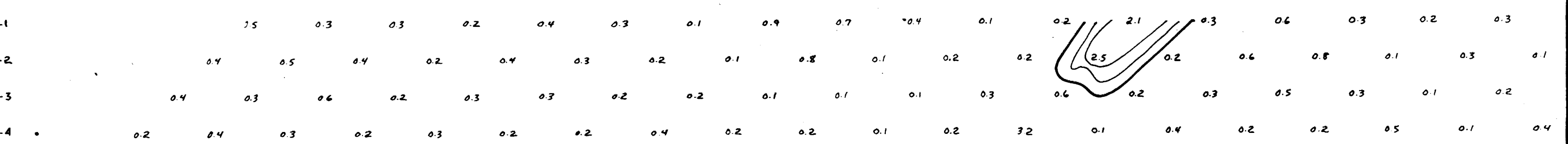
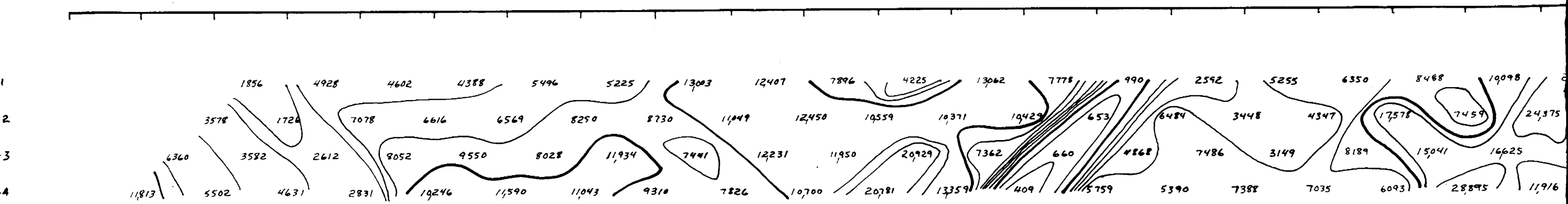
LINE: 7 W

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

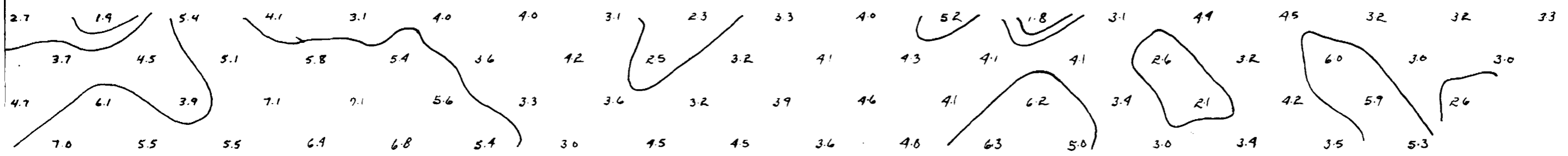
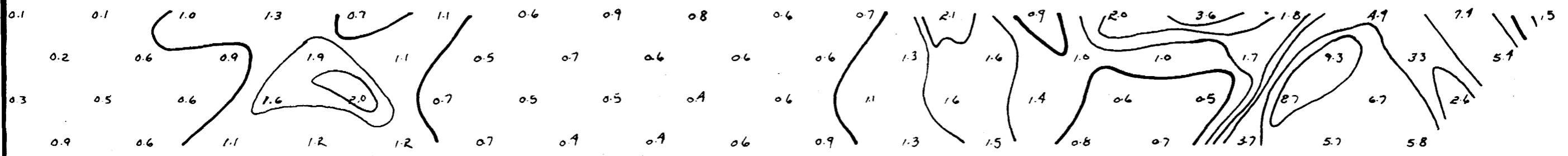
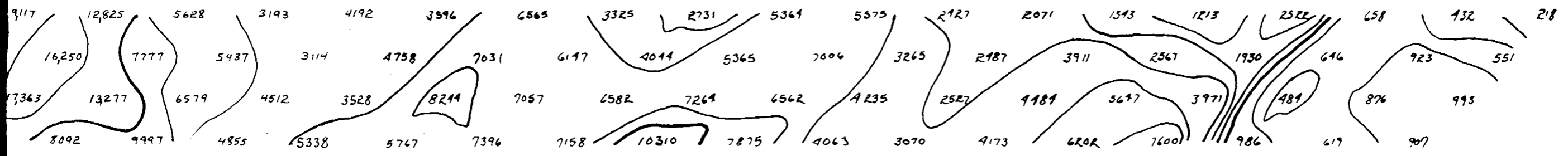


F.E.

6.253 6.003 5.753 5.503 5.253 5.003 4.753 4.503 4.253 4.003 3.753 3.503 3.253 3.003 2.753 2.503 2.253 2.003 1.753 1.503 1.253



1+00N 0+75N 0+50N 0+25N 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



1+75M 2+00M 2+25M 2+50M 2+75M 3+00M 3+25M 3+50M 3+75M

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

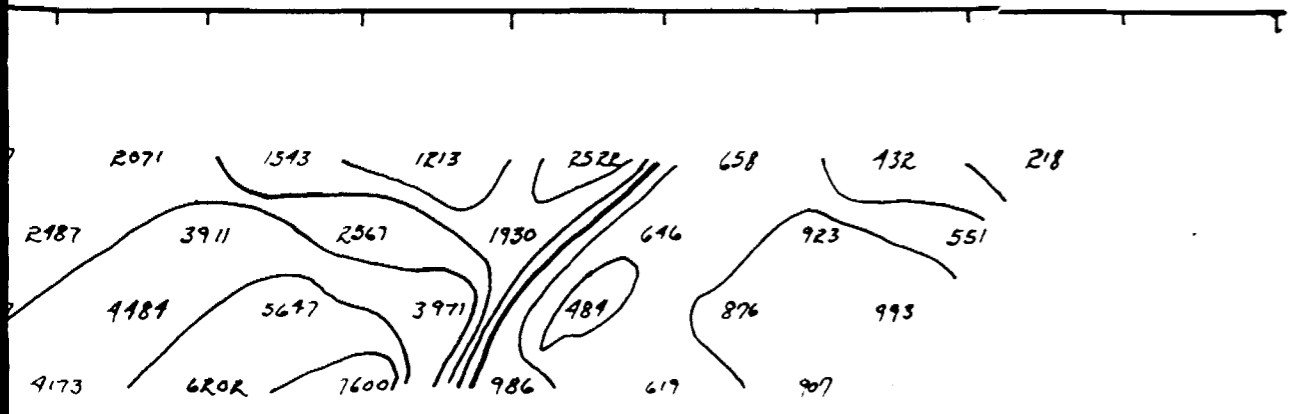
SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

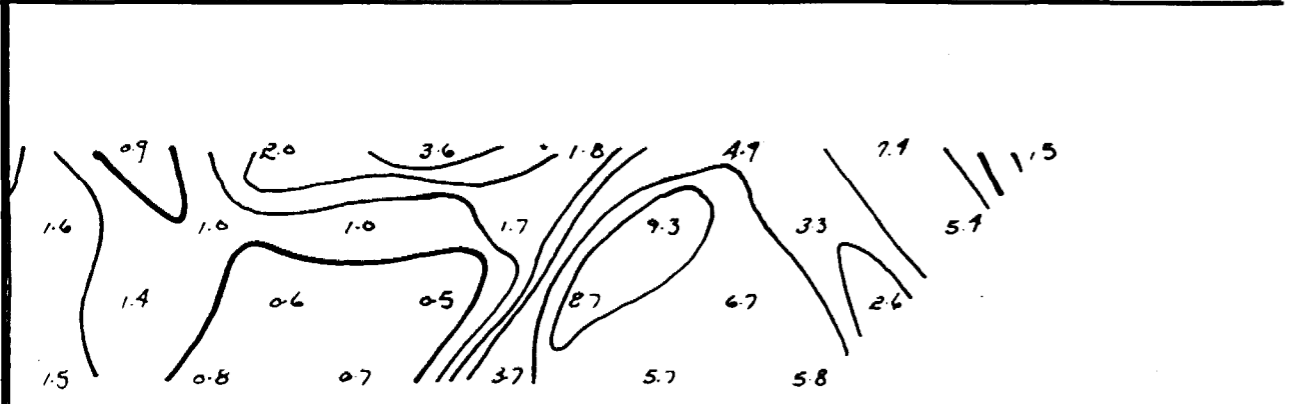
DATE:

LINE : 8 W

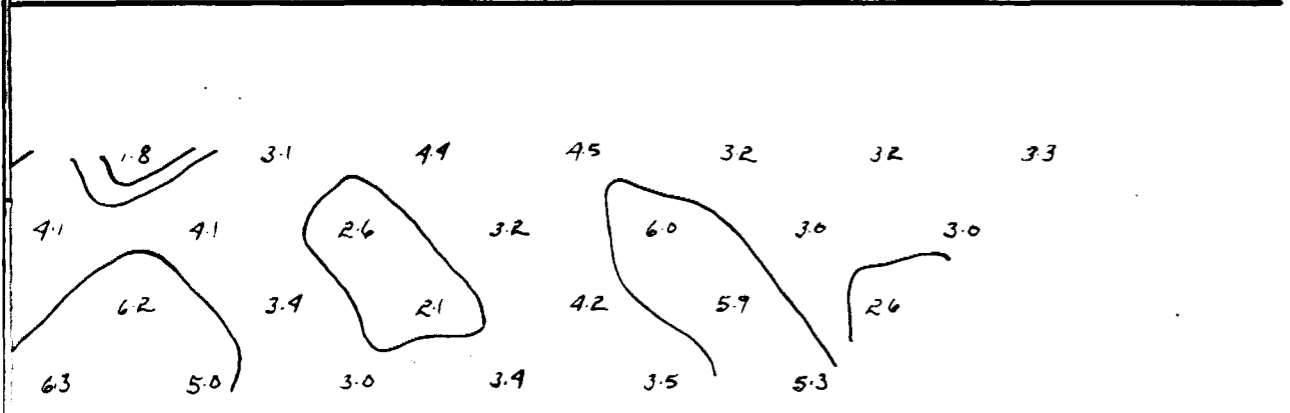
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



E2

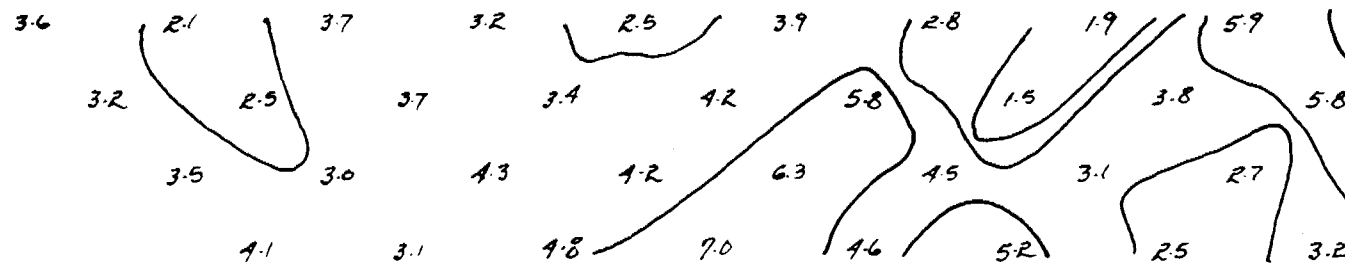
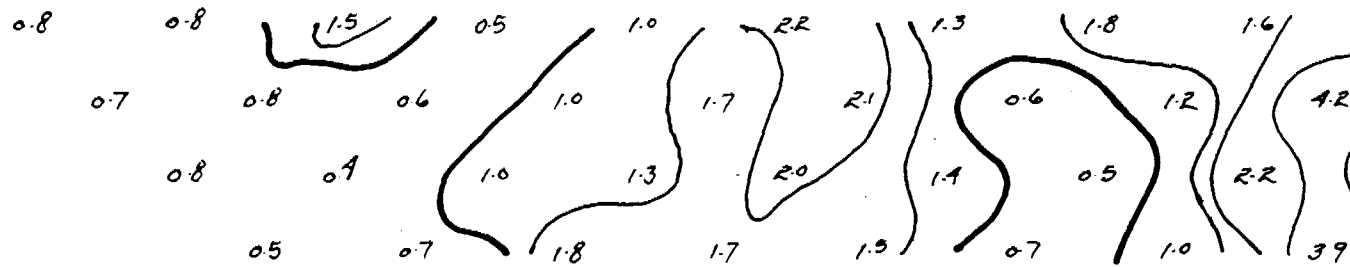
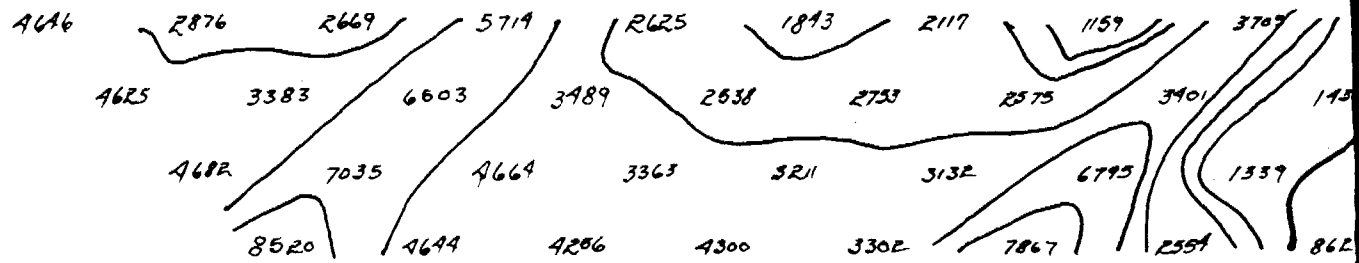


M.F.



F.E.

0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50



SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

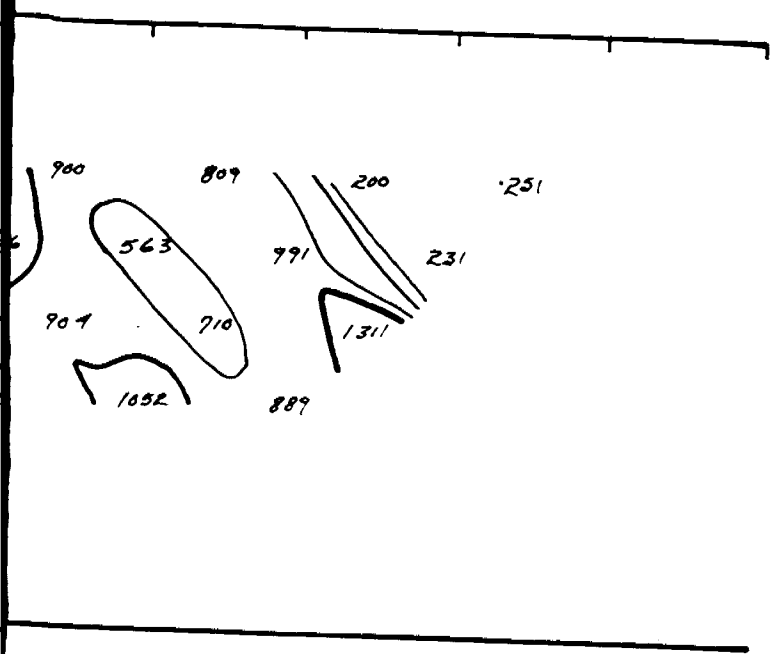
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

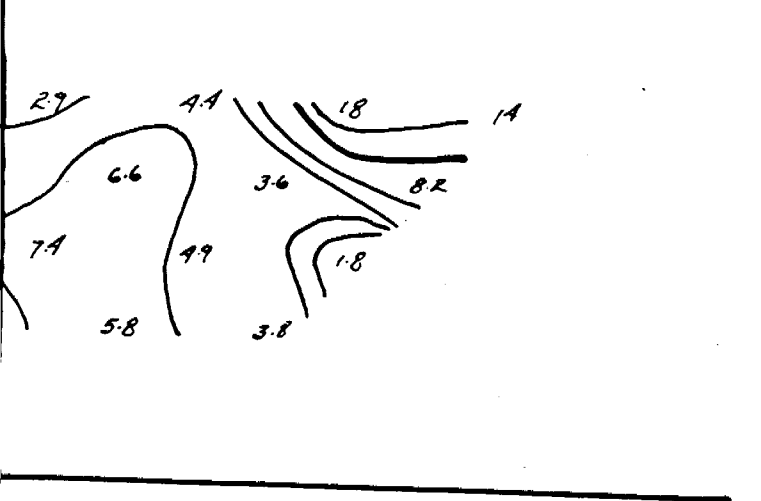
LINE : 8 + 50 W

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

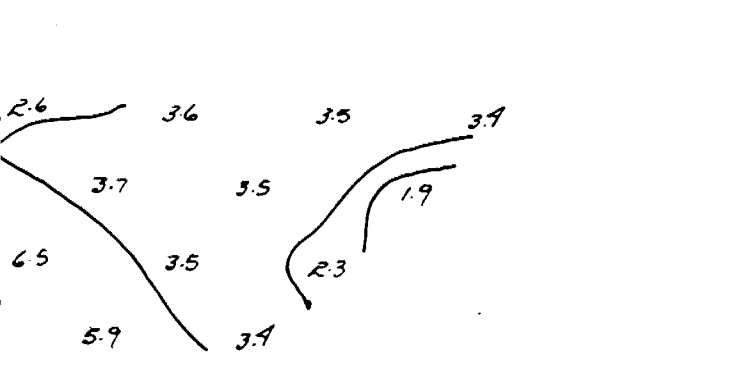
104 2+75N 3+00N 5+25N 5+50N 3+75N



P3



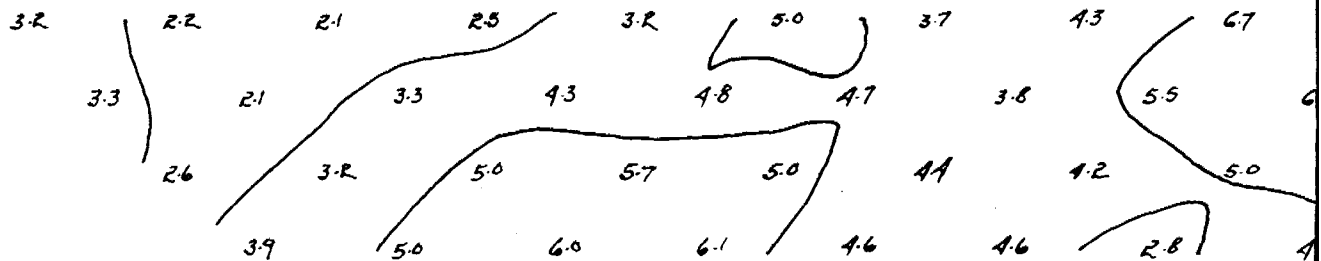
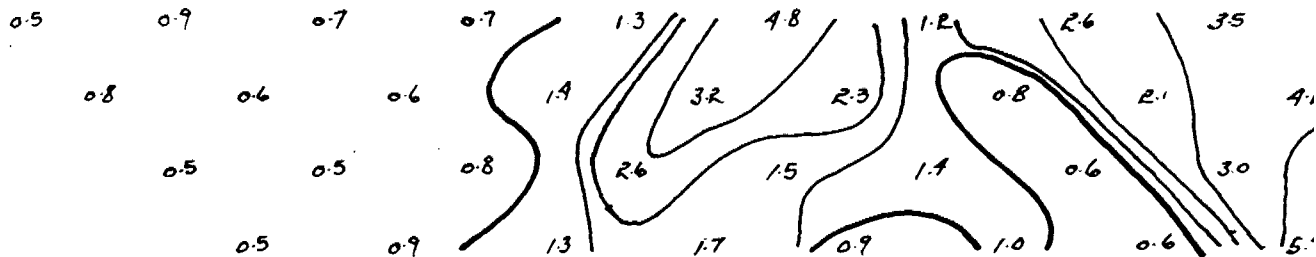
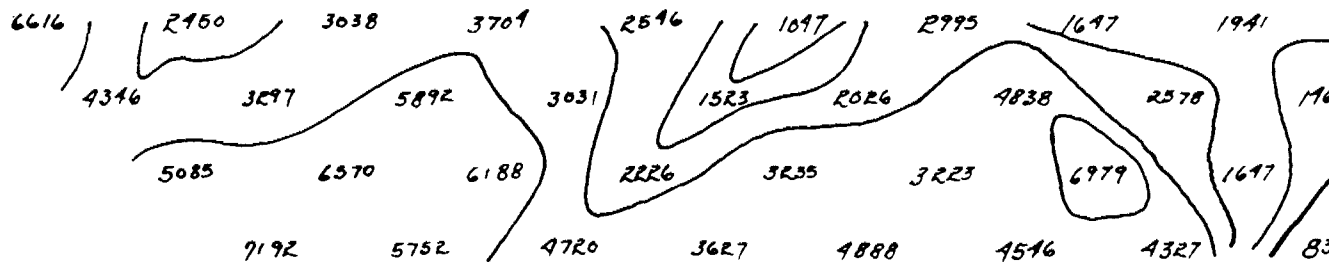
M.F.



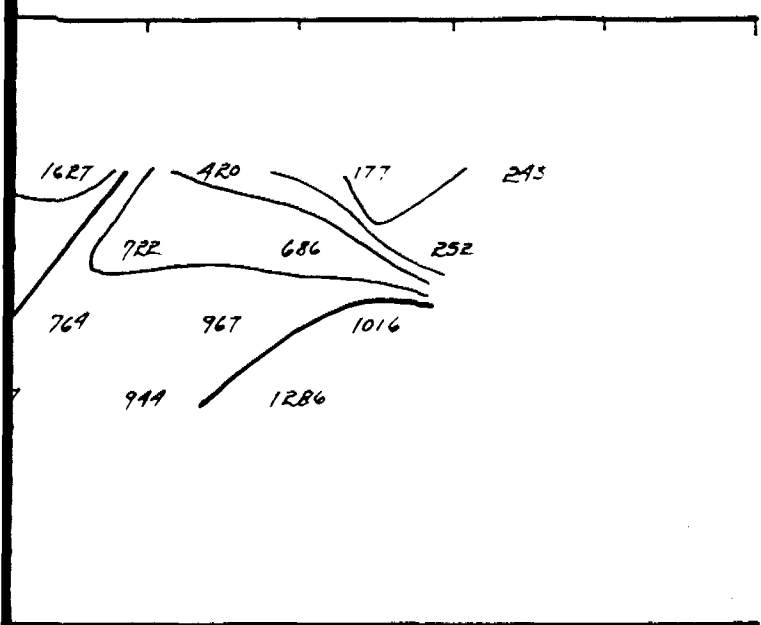
F.E.



0+00      0+25d      0+50d      0+75d      1+00d      1+25d      1+50d      1+75d      2+00d      2+25d      2+



2+75N 3+00N 3+25N 3+50N 3+75N



Q3

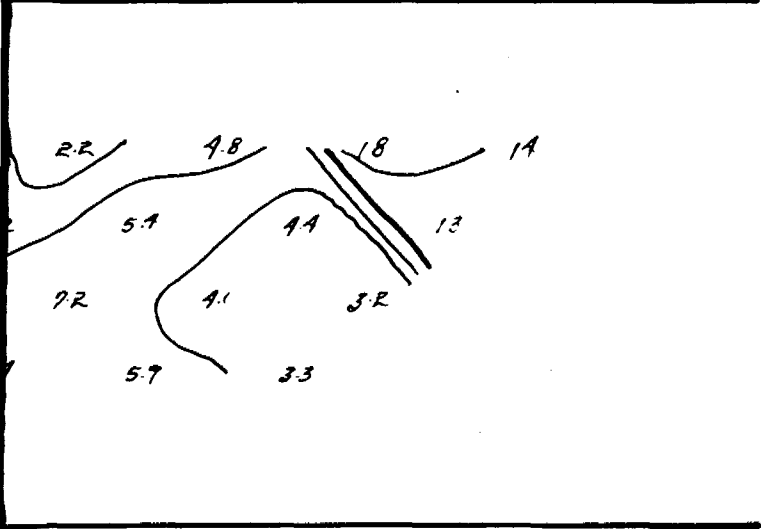
LYNX CANADA  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

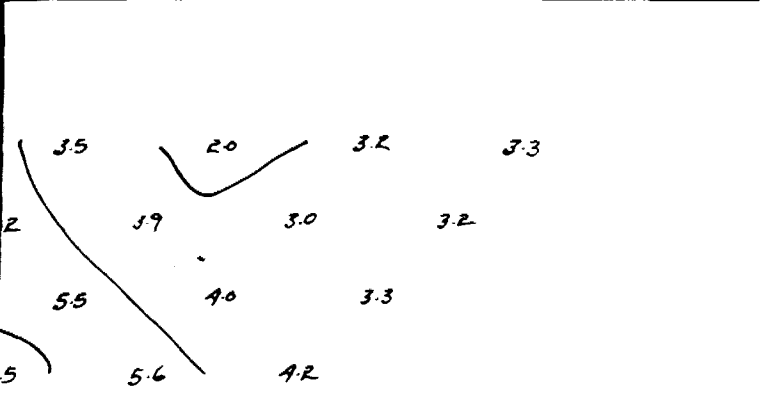
DATE:



M.F.

LINE : 9 W

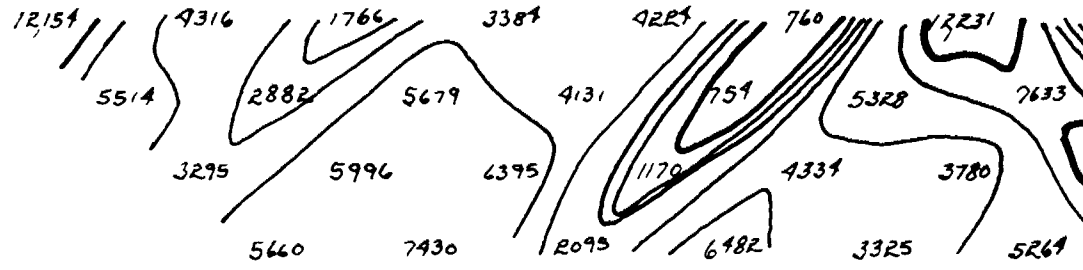
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



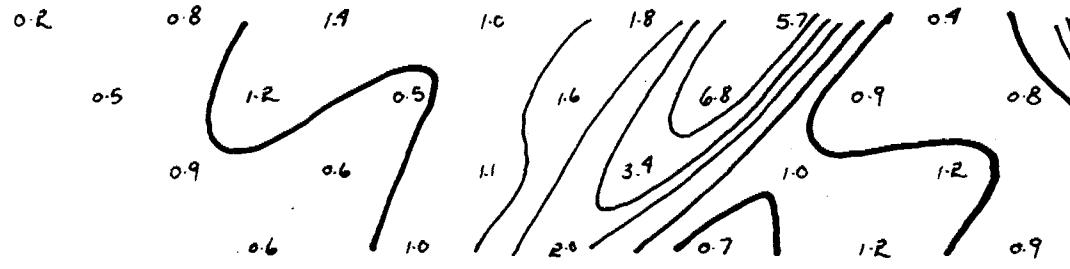
F.E.

0+00    0+25d    0+50d    0+75d    1+00d    1+25d    1+50d    1+75d    2+00d

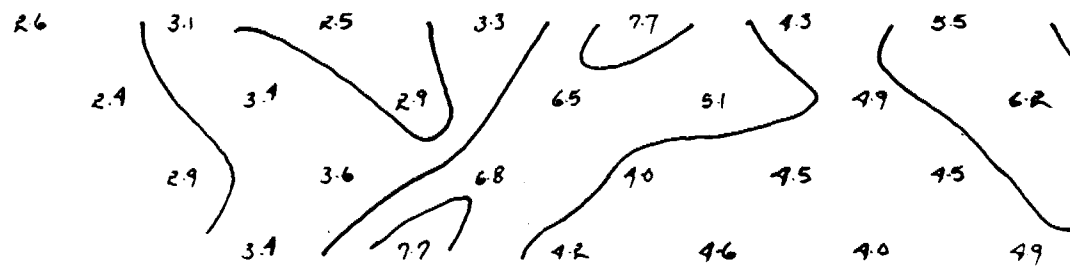
Z-1  
Z-2  
Z-3  
Z-4



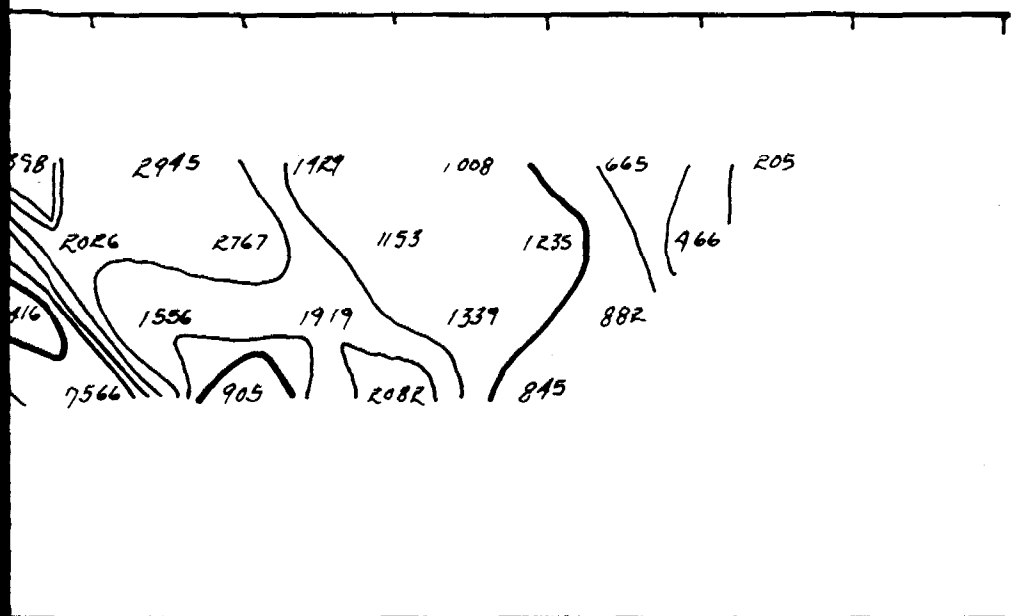
Z-1  
Z-2  
Z-3  
Z-4



Z-1  
Z-2  
Z-3  
Z-4



2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



e_a

SPARTON RESOURCES INC

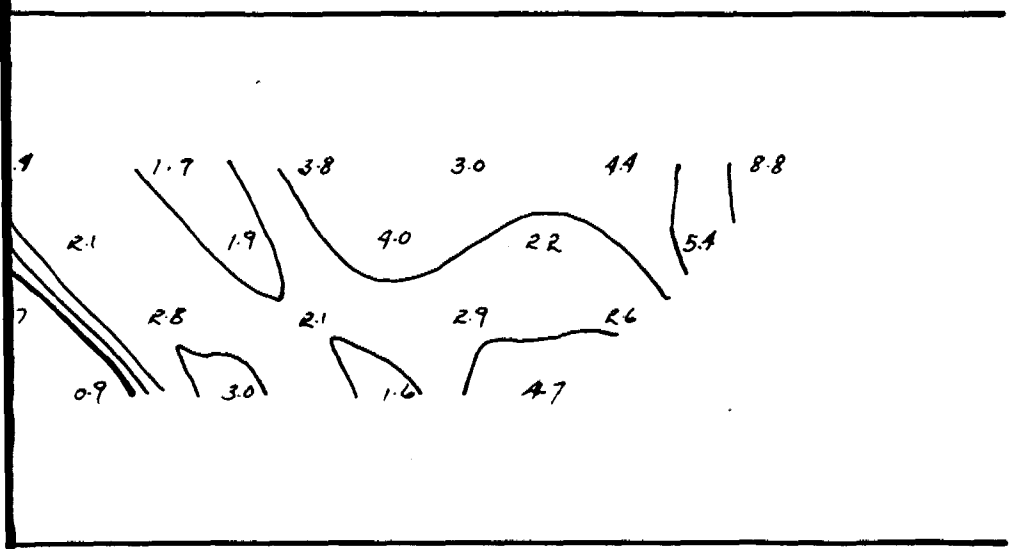
# STRAW LAKE PROJECT FORT FRANCIS, ONTARIO.

## H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

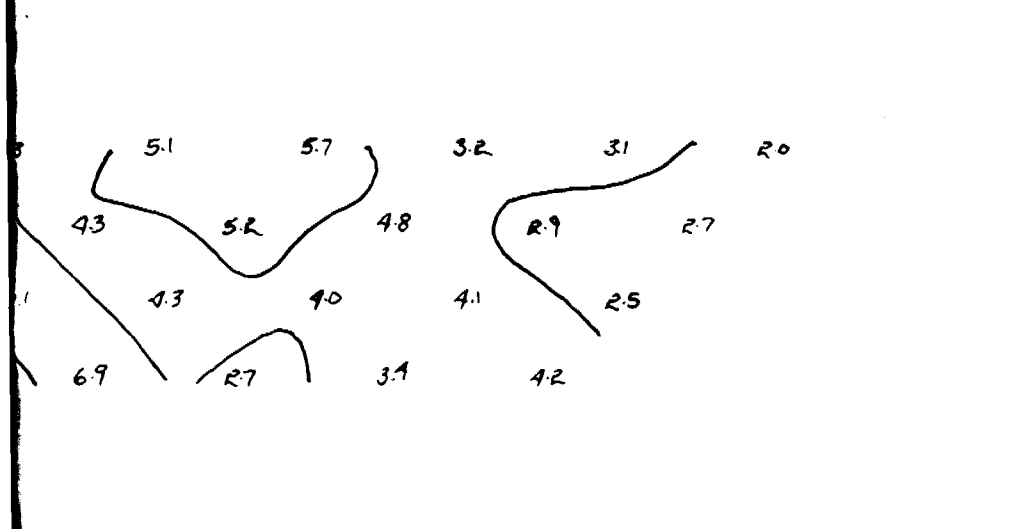
DATE:



M.F.

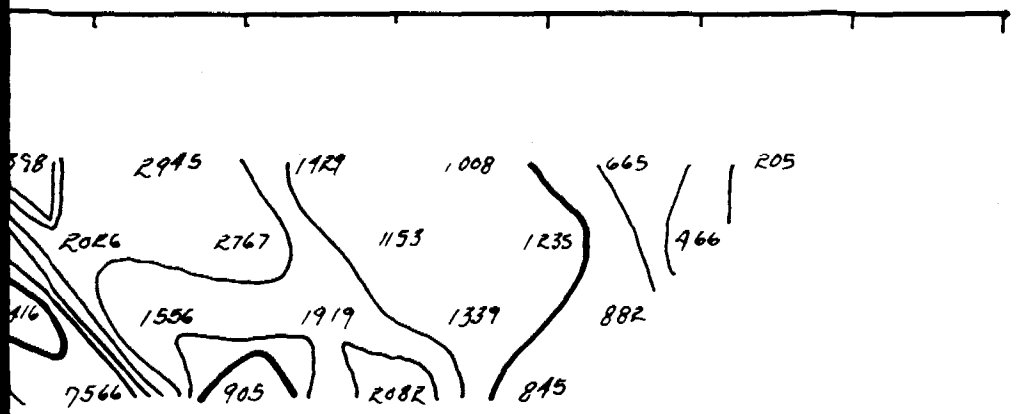
### LINE: 10 W

**Mertens & MacNeil**  
GEOPHYSICAL GROUND SURVEYS LTD.



F.E.

E+25N 2+50N E+75N 3+00N 3+25N 3+50N 3+75N



E_a

SPARTON RESOURCES INC

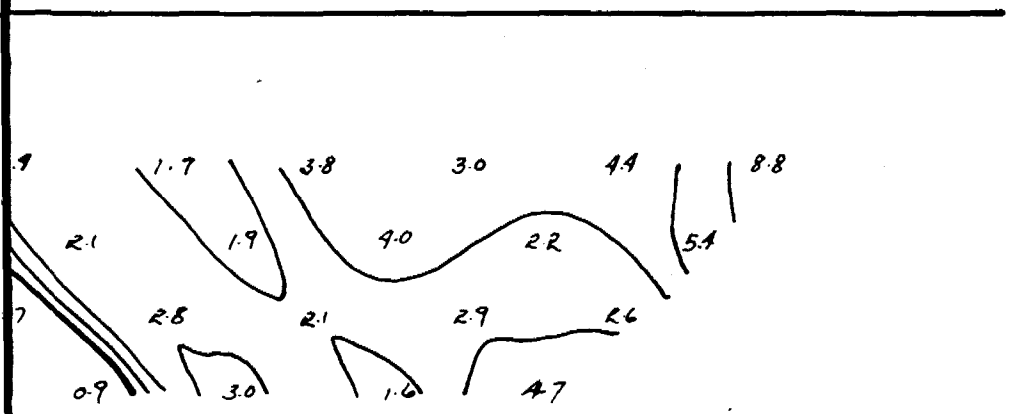
# STRAW LAKE PROJECT FORT FRANCIS, ONTARIO.

## H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

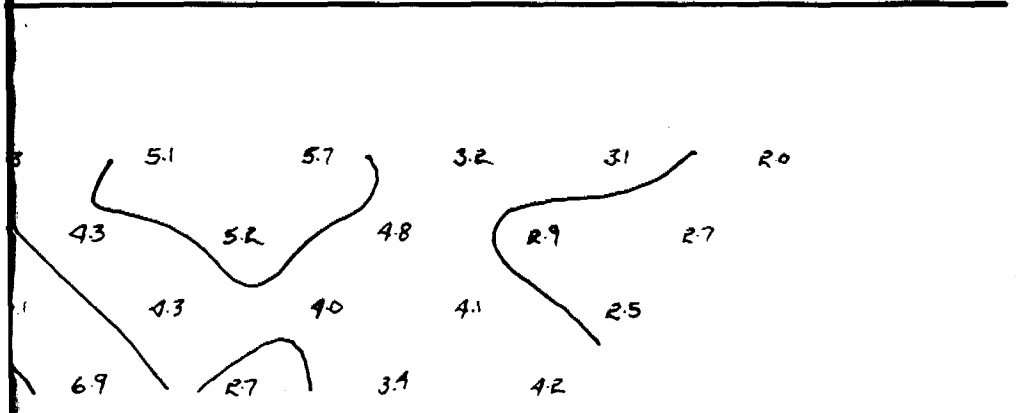


M.F.

LINE: 10 W

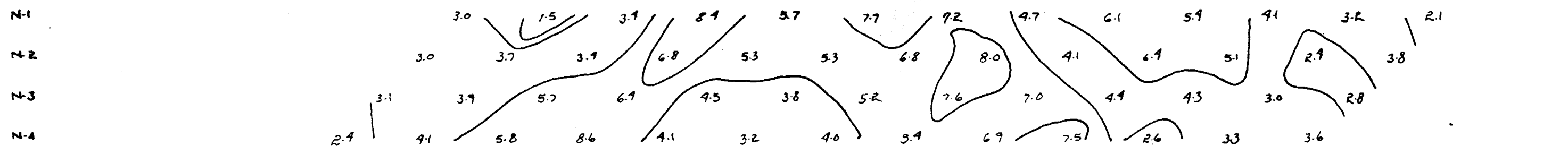
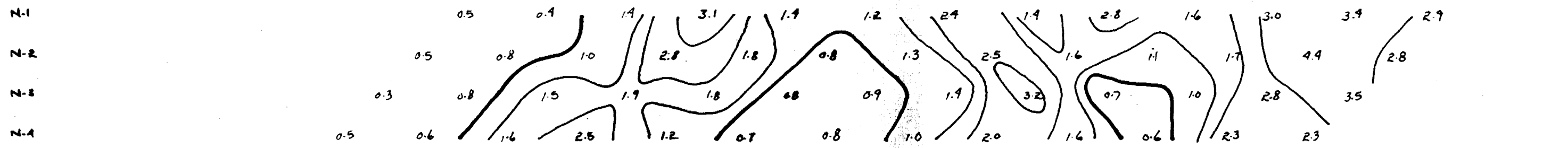
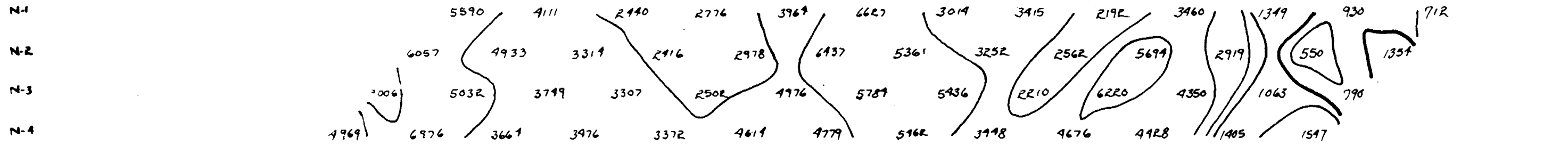
Mertens & MacNeil

GEOPHYSICAL GROUND SURVEYS LTD.

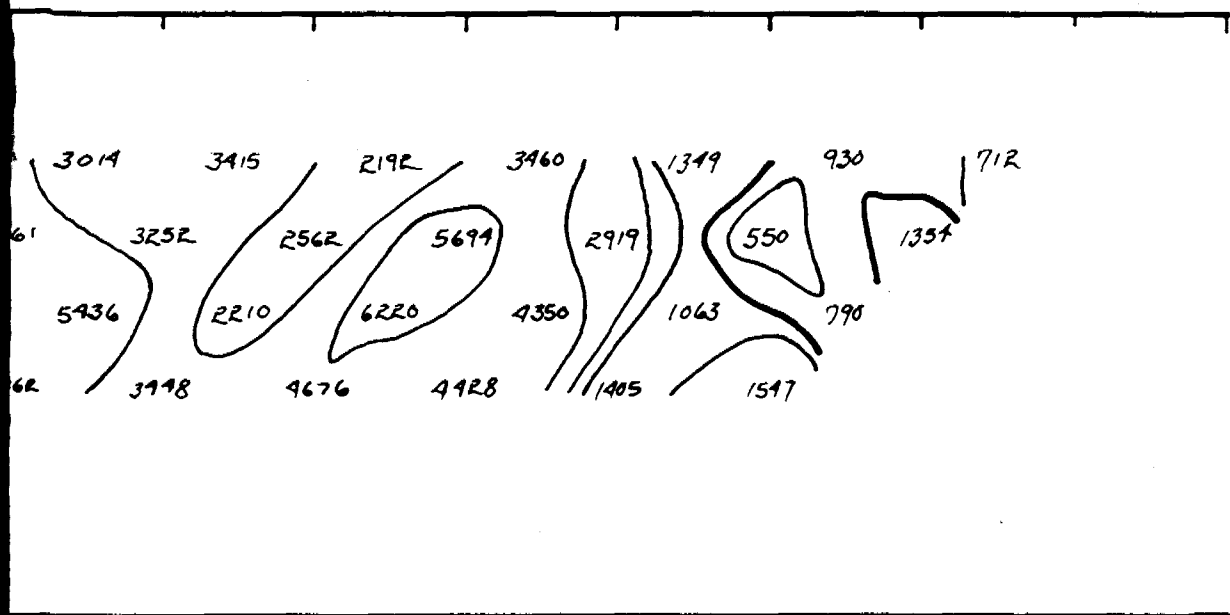


F.E.

0+75M 0+50M 0+25M 0+0M 0+25M 0+50M 0+75M 1+00M 1+25M 1+50M 1+75M 2+00M 2+25M 2+50M 2+75M 3+00M 3+25M 3+50M 3+75M



75M 2+00M 2+25M 2+50M 2+75M 3+00M 3+25M 3+50M 3+75M



0.3

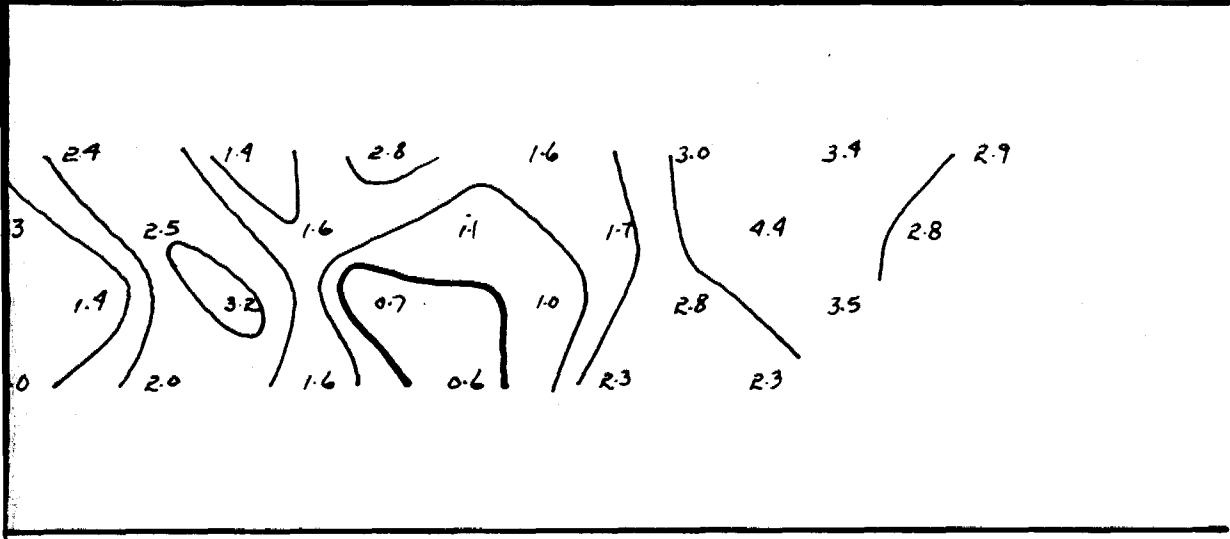
SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

**H P I P SURVEY** (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

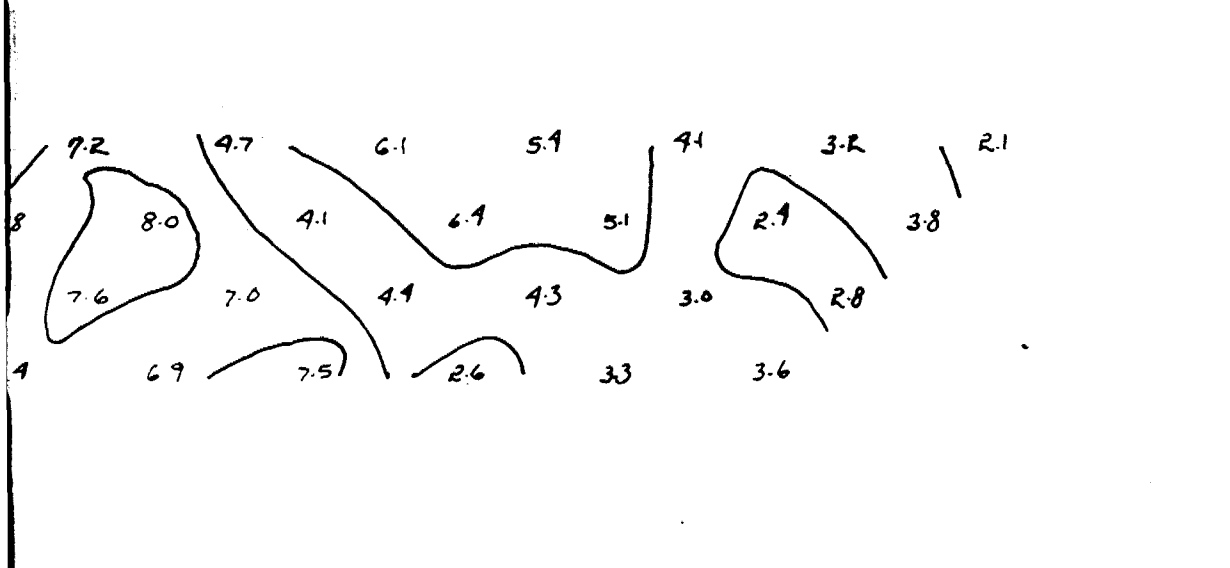
DATE:



5.0

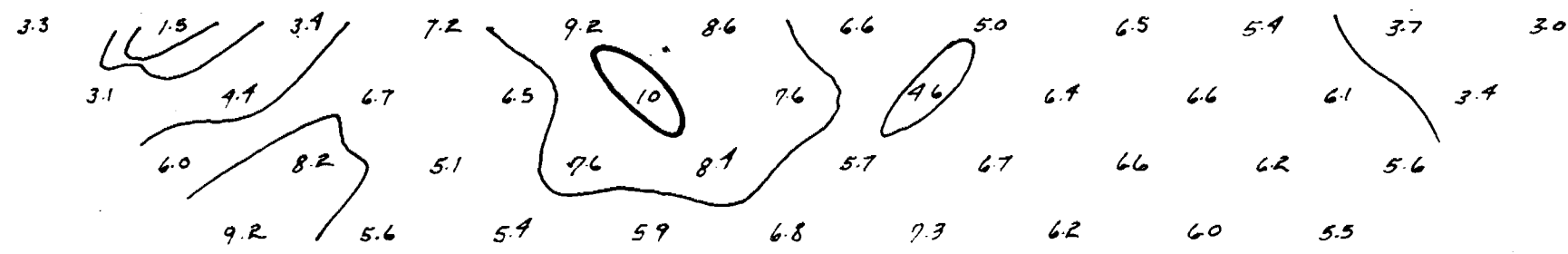
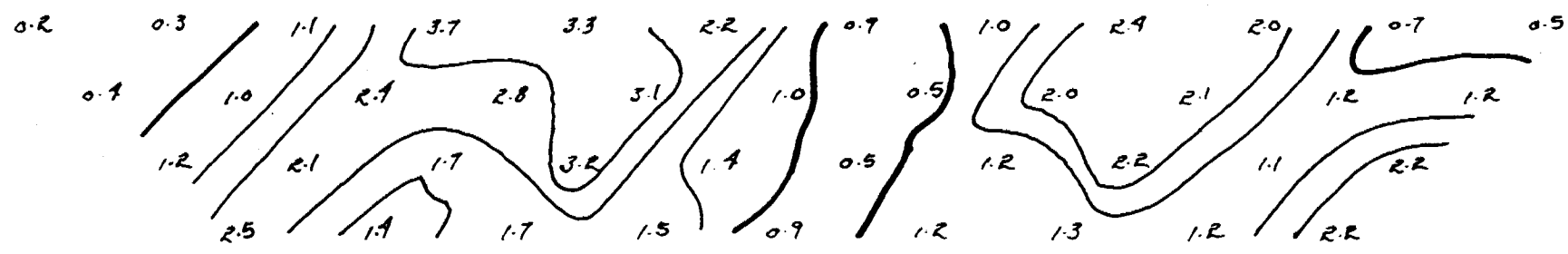
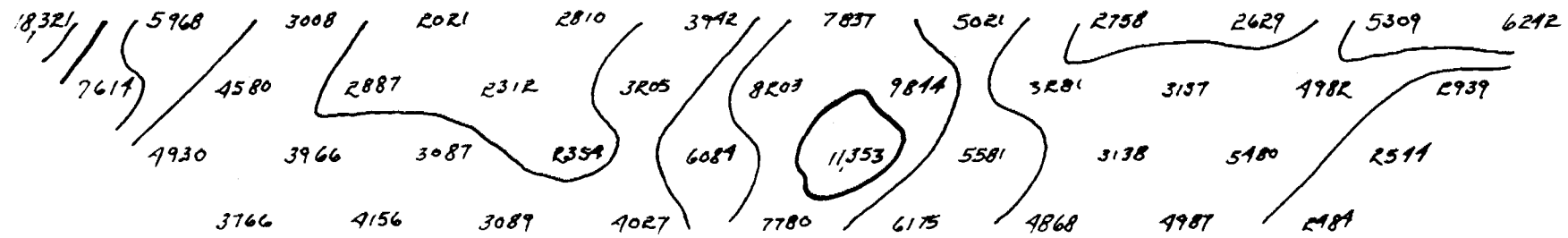
LINE: 10+50 W

**Mertens & MacNeil**  
GEOPHYSICAL GROUND SURVEYS LTD.



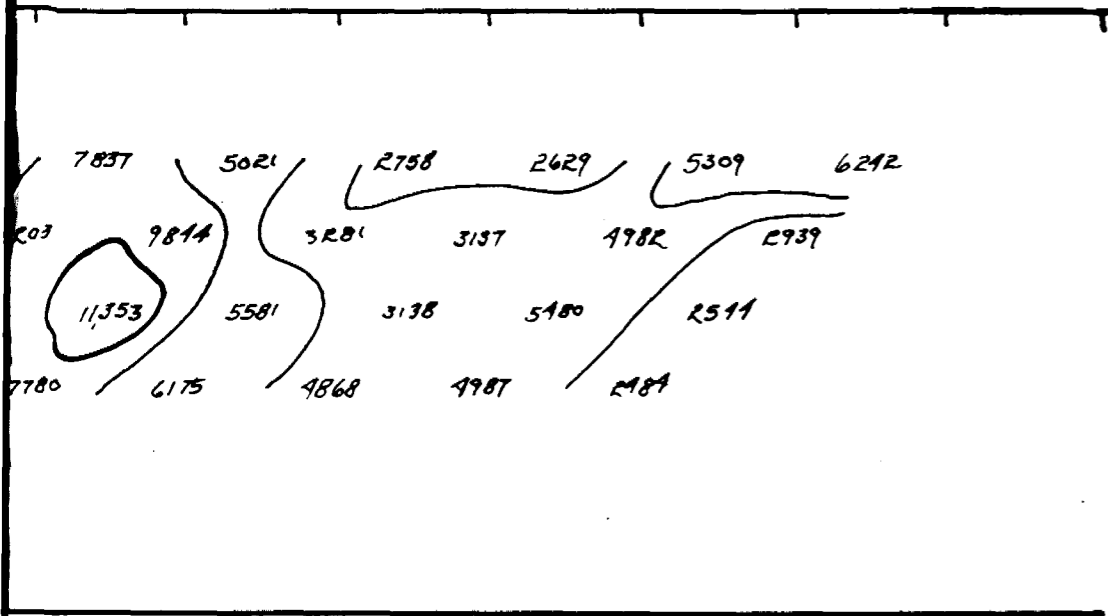
25.0

0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N





178N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N



e₃

SPARTON RESOURCES INC

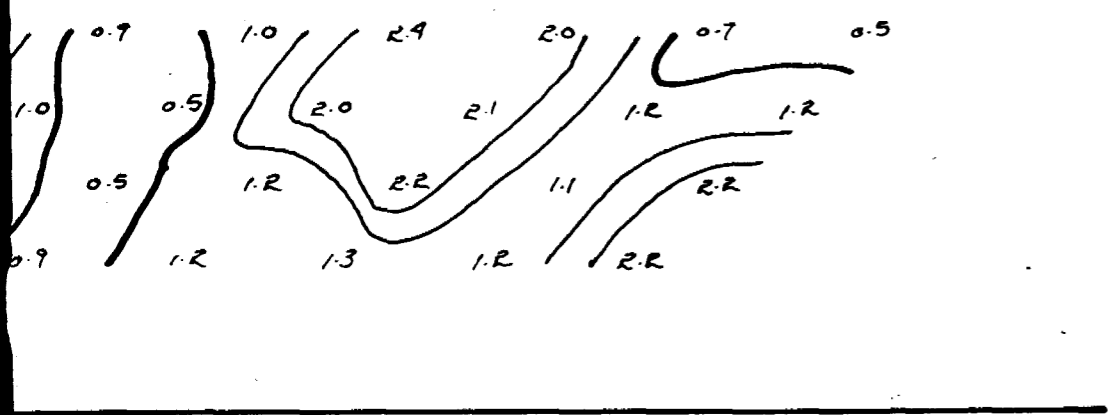
# STRAW LAKE PROJECT FORT FRANCIS, ONTARIO.

## HPIP SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

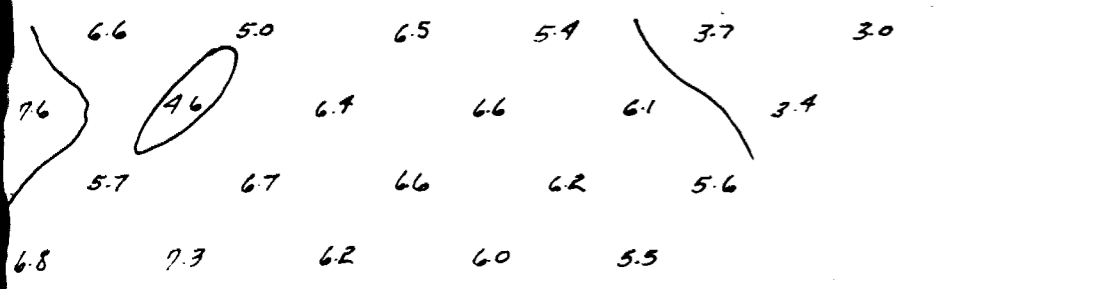
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:



M.F.

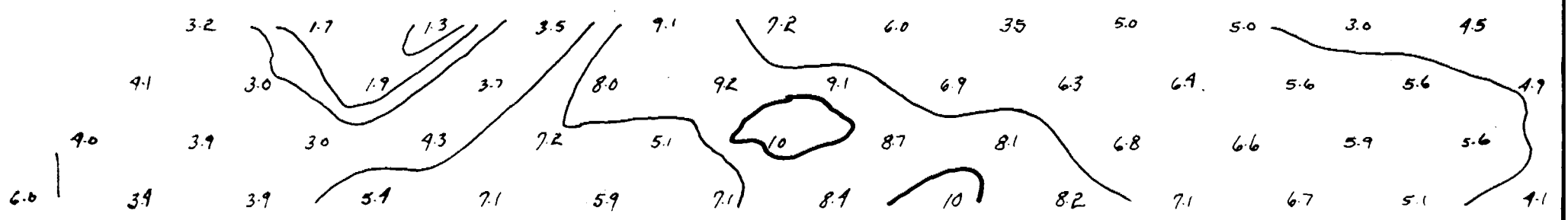
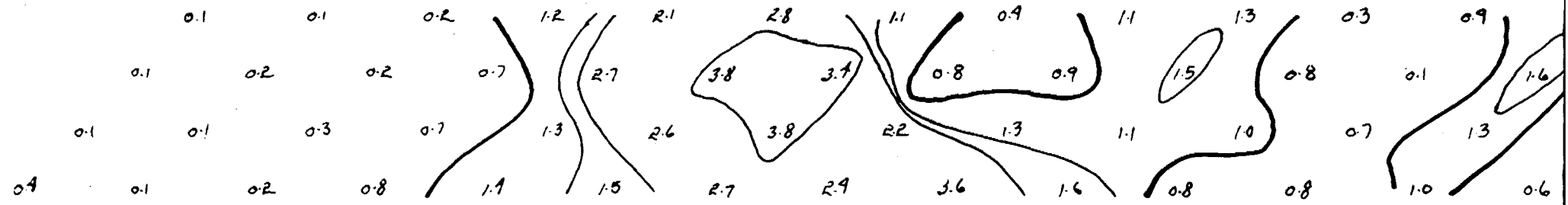
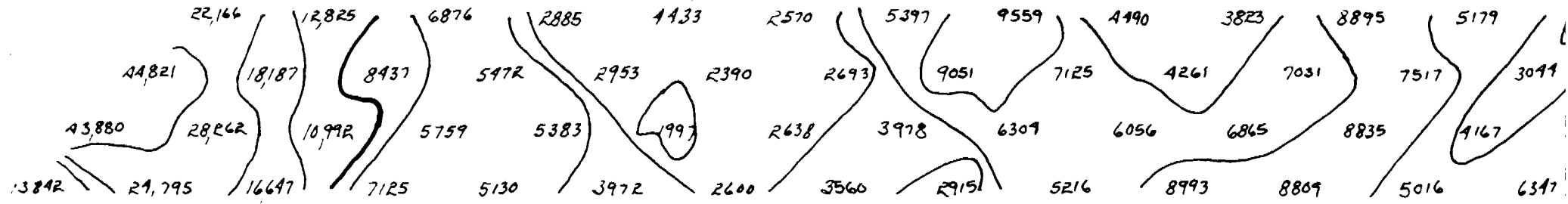
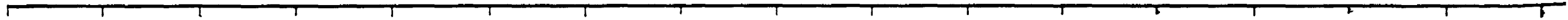
LINE: II W



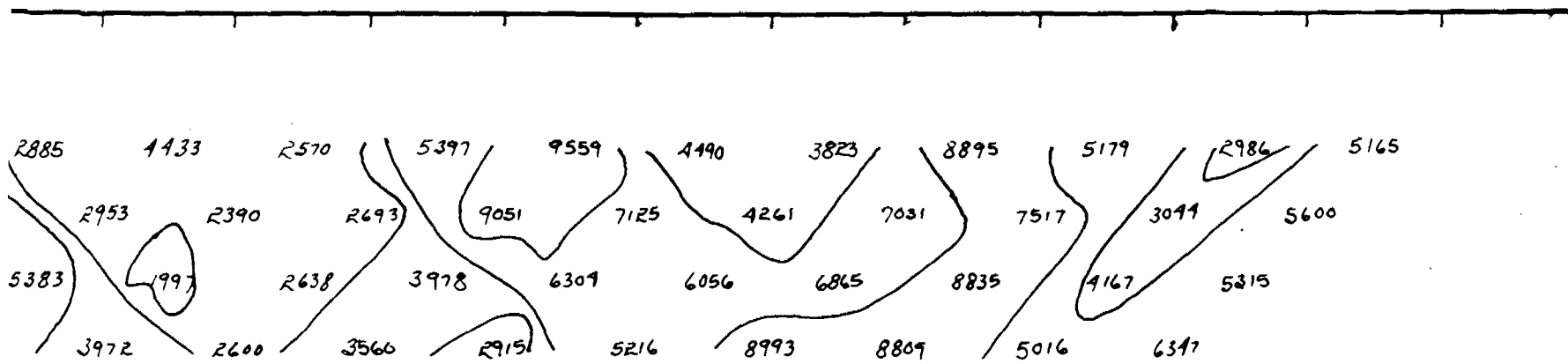
F.E.

**Mertens & MacNeil**  
GEOPHYSICAL GROUND SURVEYS LTD.

1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00



1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



Q₃

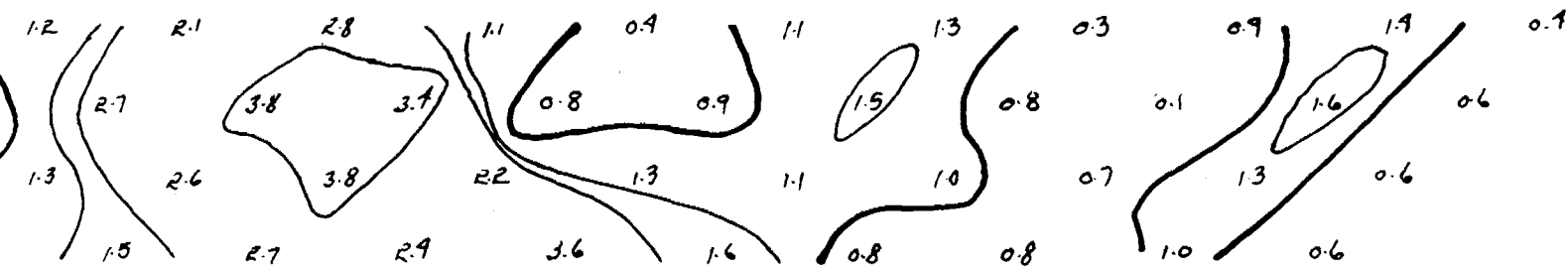
SPARTON RESOURCES INC  
 STRAW LAKE PROJECT  
 FORT FRANCIS, ONTARIO.

**H P I P SURVEY** (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

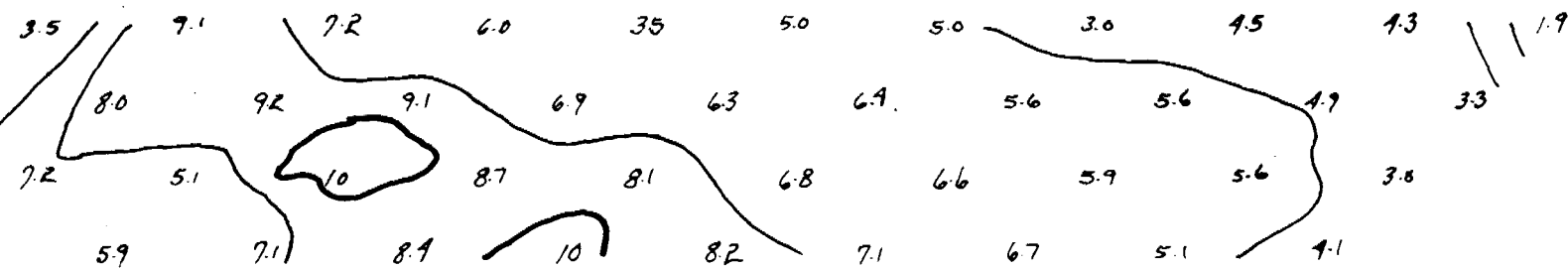
FREQUENCIES : 0.3 & 5.0 Hz.

DATE:



M.F.

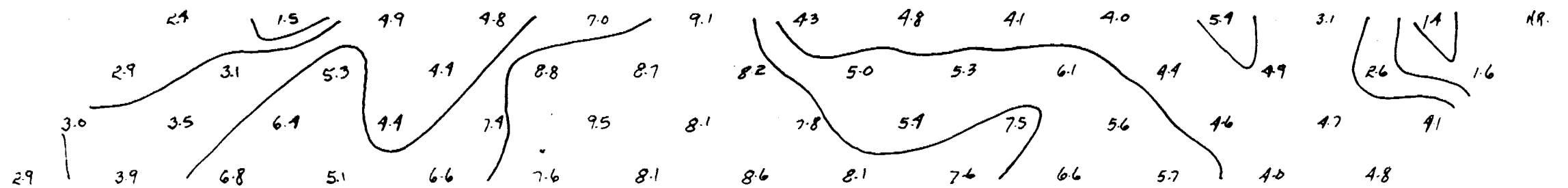
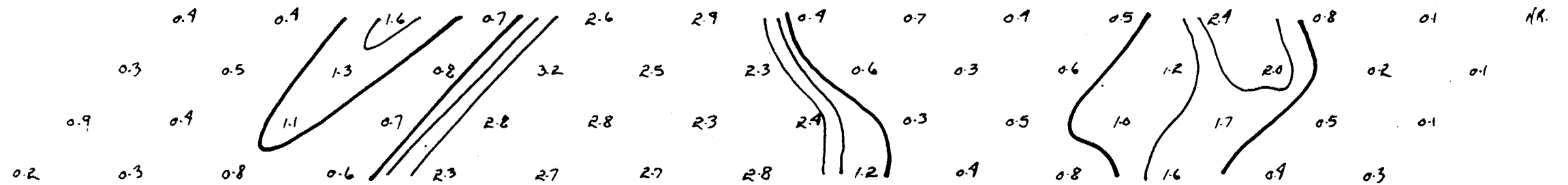
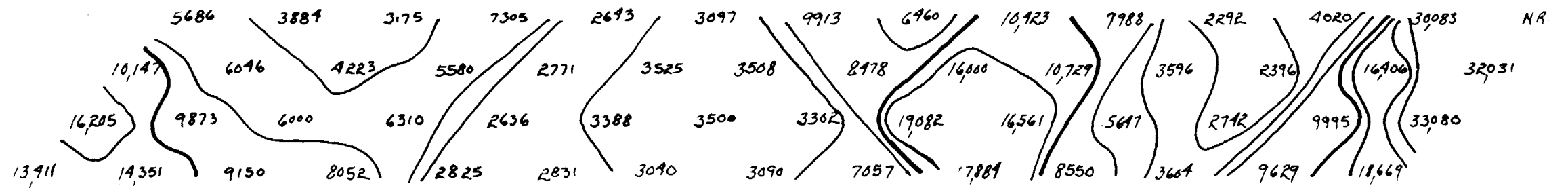
LINE: 12 W



F.E.

**Mertens & MacNeil**  
 GEOPHYSICAL GROUND SURVEYS LTD.

1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N



1+50N 1+75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

20

H P I P SURVEY (DIPOLE-DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

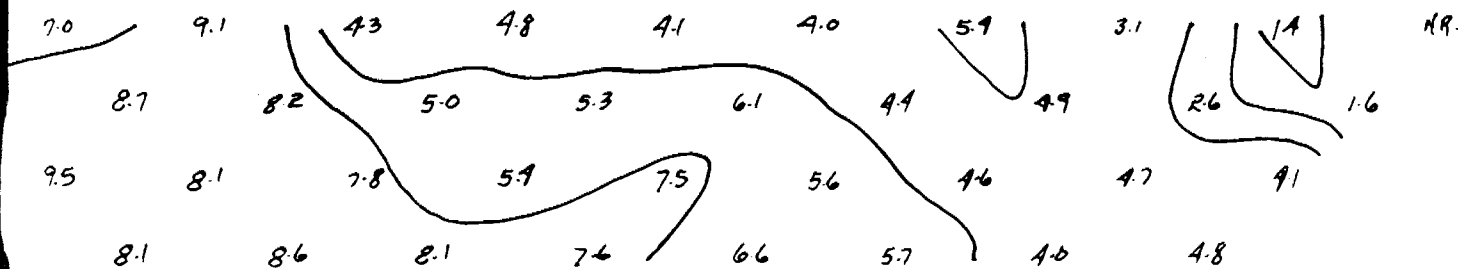
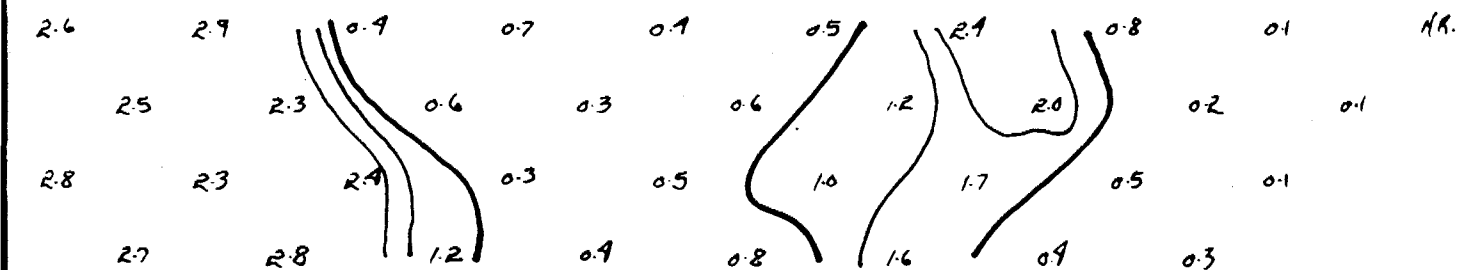
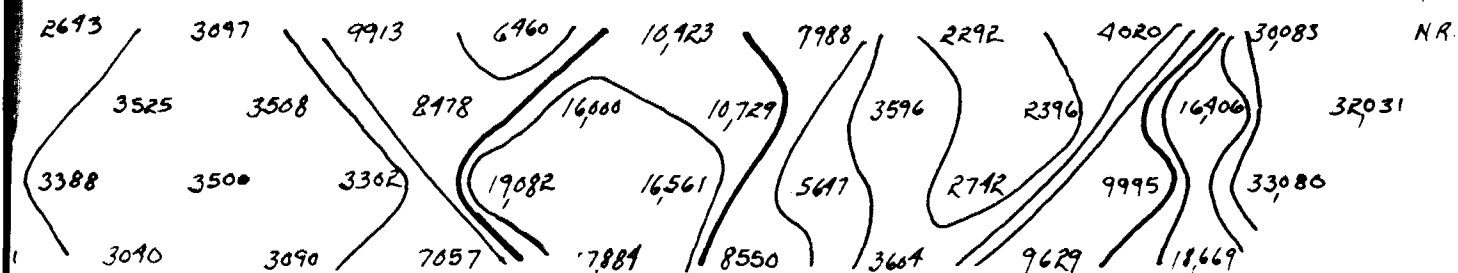
DATE:

LINE: 13 W

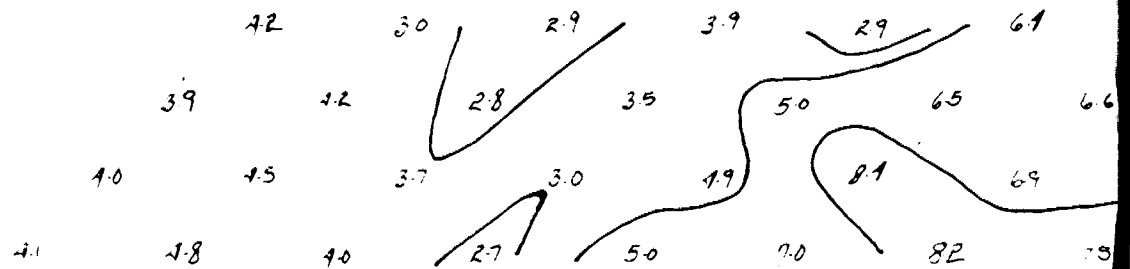
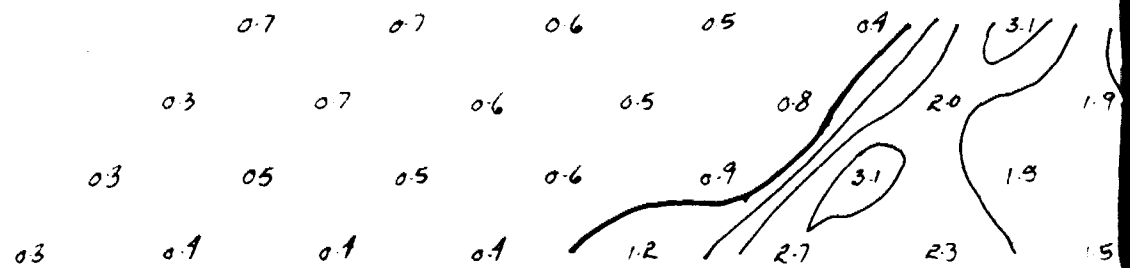
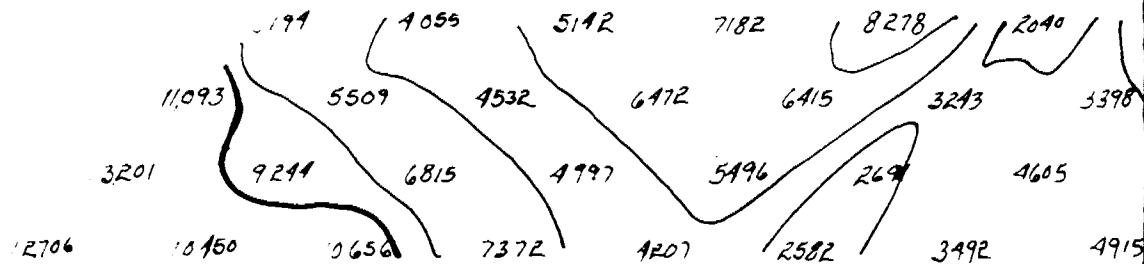
M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.



1+00S 0+75S 0+50S 0+25S 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N



2.00N 2.25N 2.50N 2.75N 3.00N 3.25N 3.50N 3.75N

SPARTON RESOURCES INC

STRAW LAKE PROJECT

FORT FRANCIS, ONTARIO.

Q 3

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

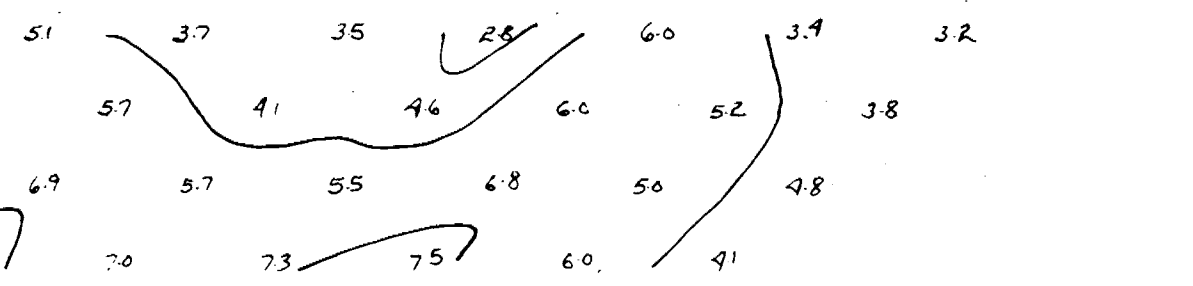
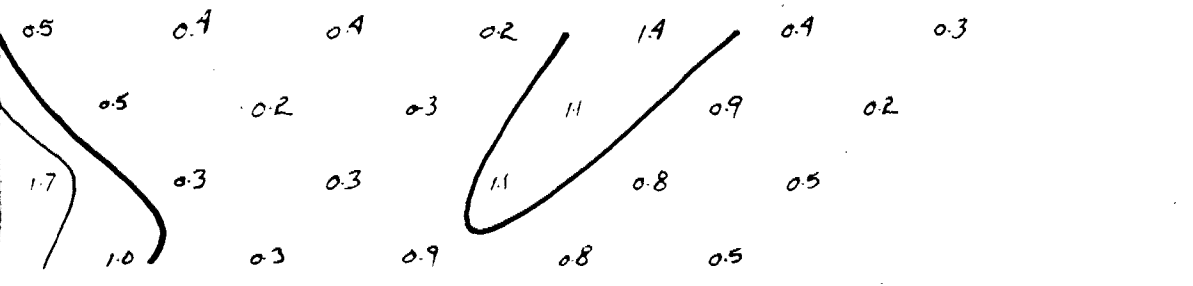
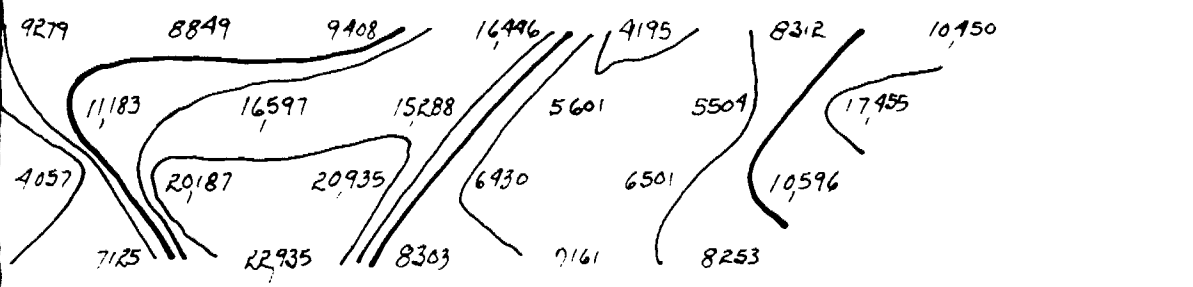
DATE:

LINE : 14 W

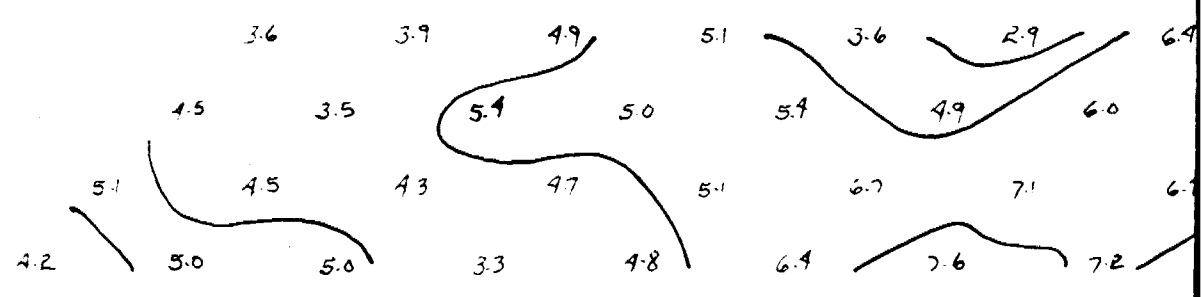
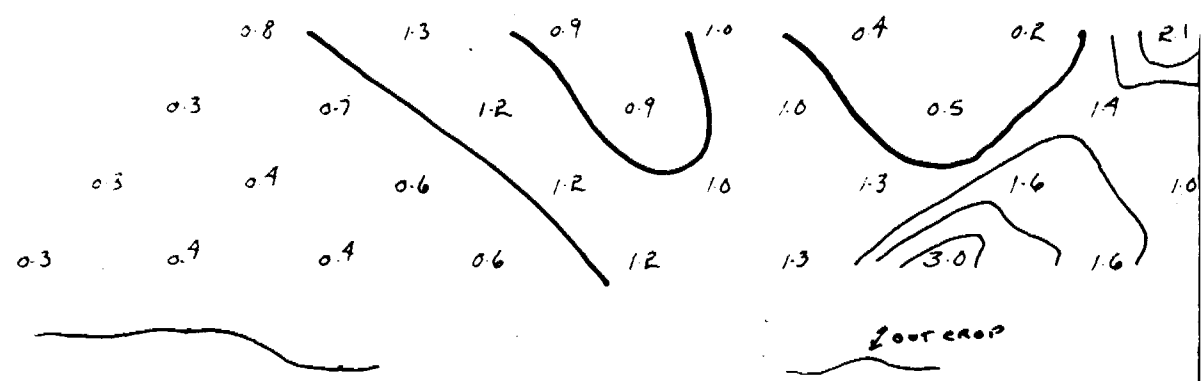
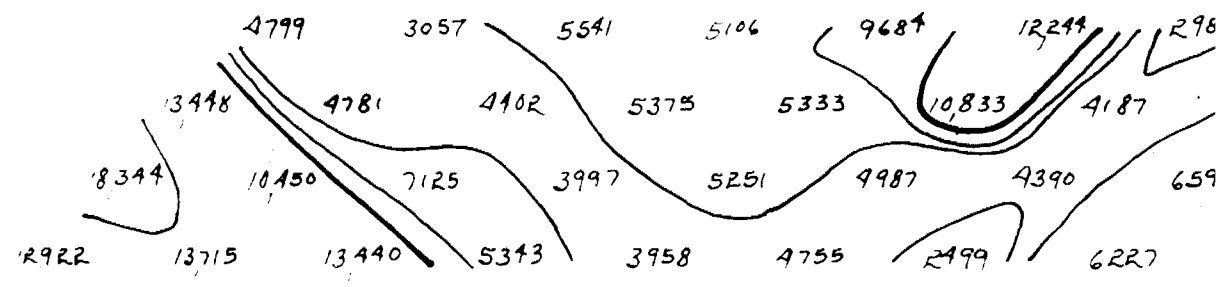
M.F.

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

F.E.



1+000 0+750 0+500 0+250 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N 1+75N





2+00N 2+25N 2+50N 2+75N 3+00N 3+25N 3+50N 3+75N 4+00N

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

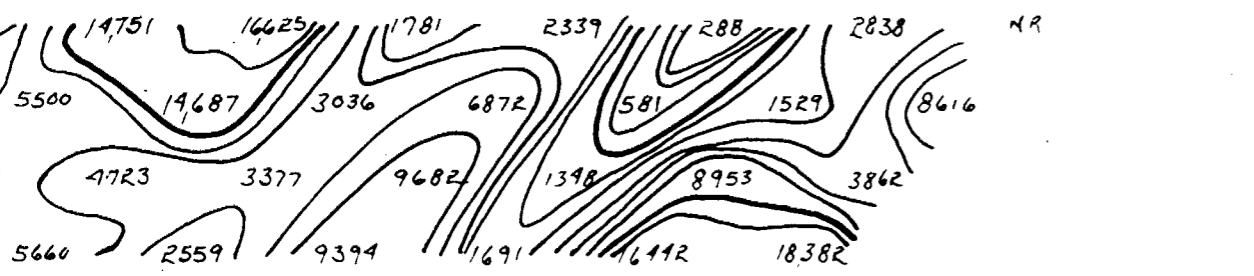
SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

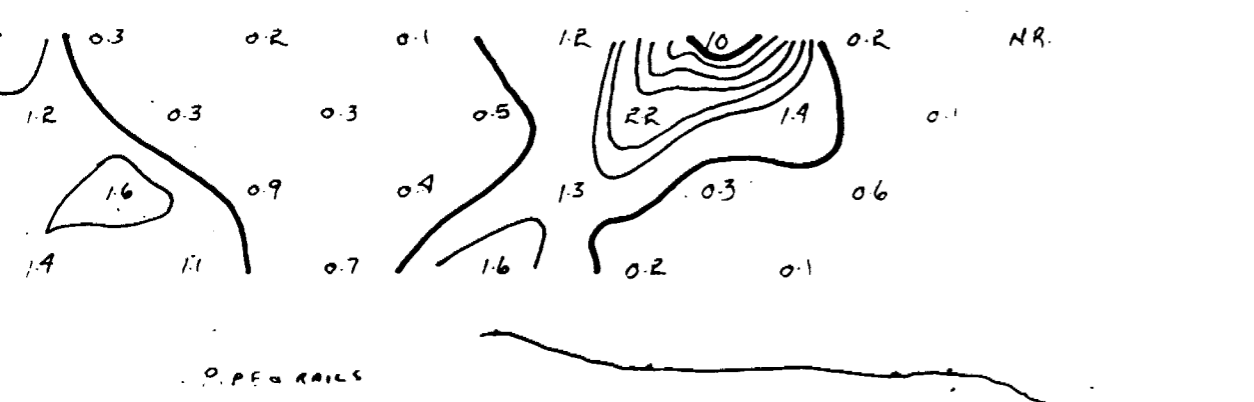
DATE:

LINE: 15 W

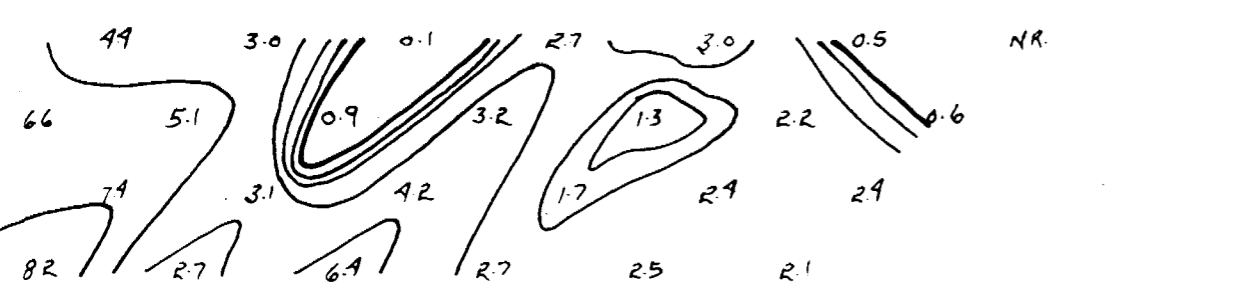
Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



Q a

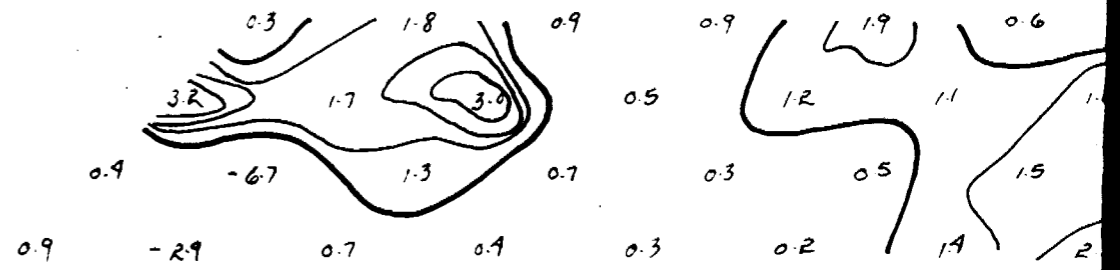
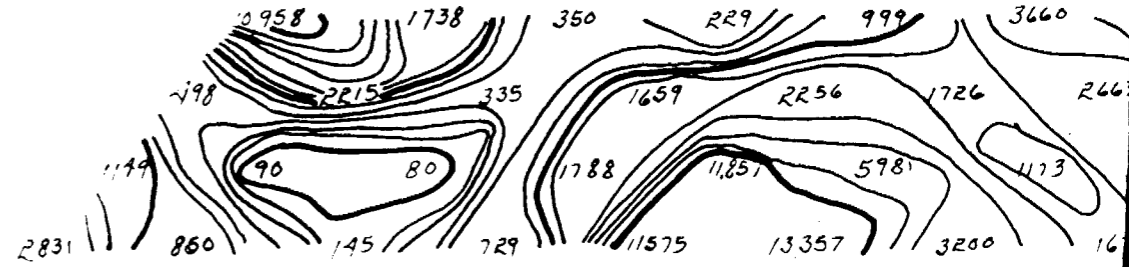


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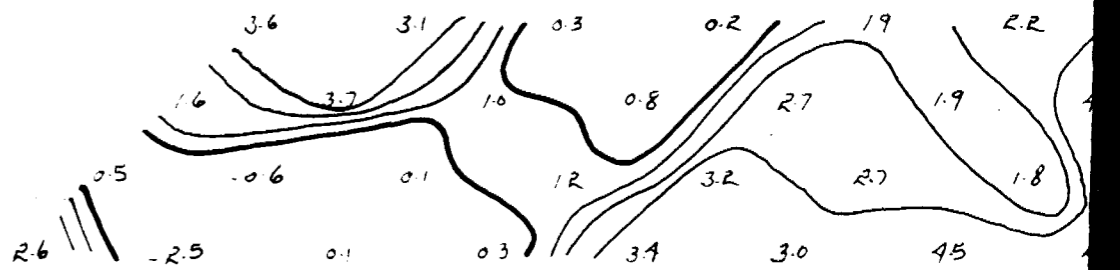


F.E.

1+003 0+753 0+503 0+253 0+00 0+25N 0+50N 0+75N 1+00N 1+25N 1+50N



← SWAMP →



1.75N 2+00N 2+25N 2+50N 2+75N 3+00N 3+25N

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

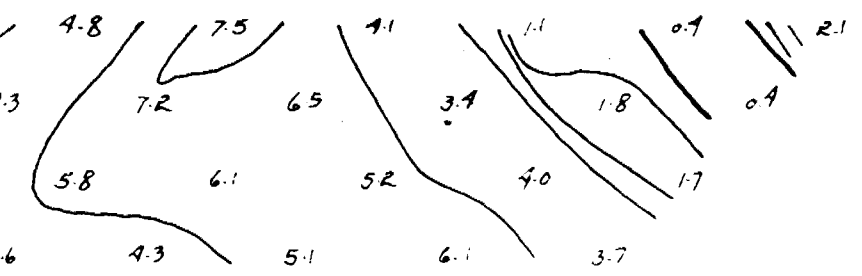
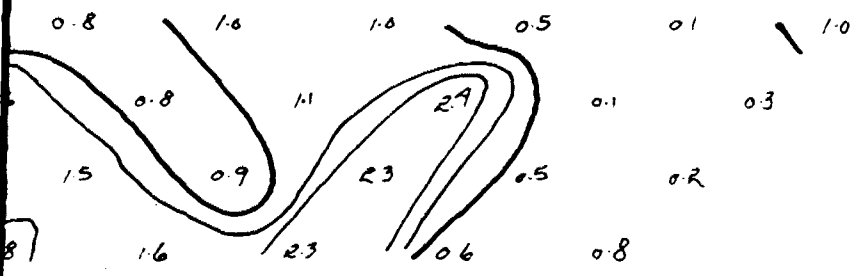
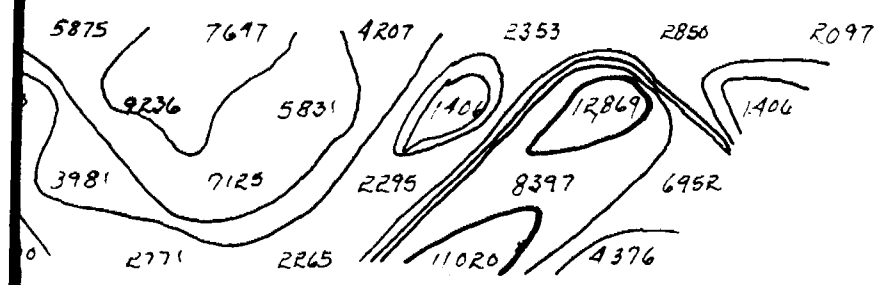
LINE: 16 W

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.

R_a

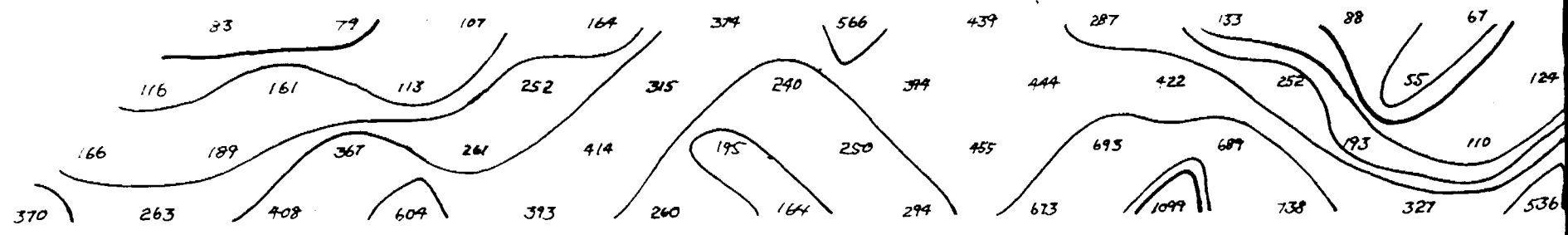
M.F.

F.E.

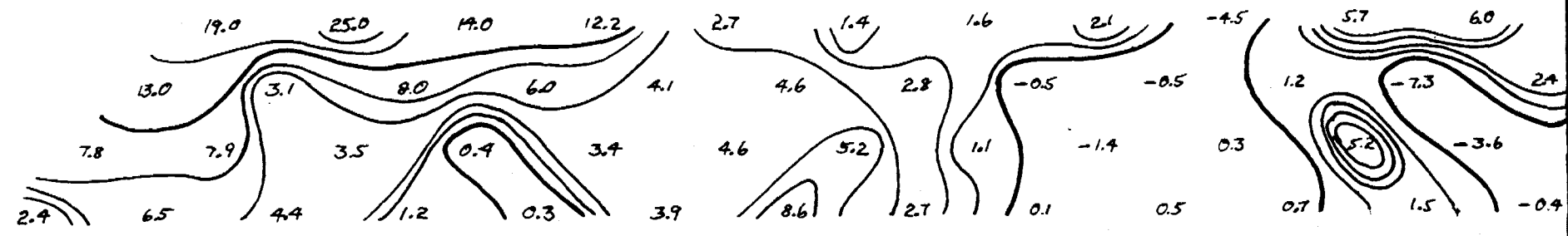


15+50.5    15+25.8    15+00.3    14+75.3    14+50.5    14+25.3    14+00.3    13+75.3    13+50.3    13+25.3    13+00.3    12+75.3    12+50.3    12+25.3    12+00.3    11+75.3

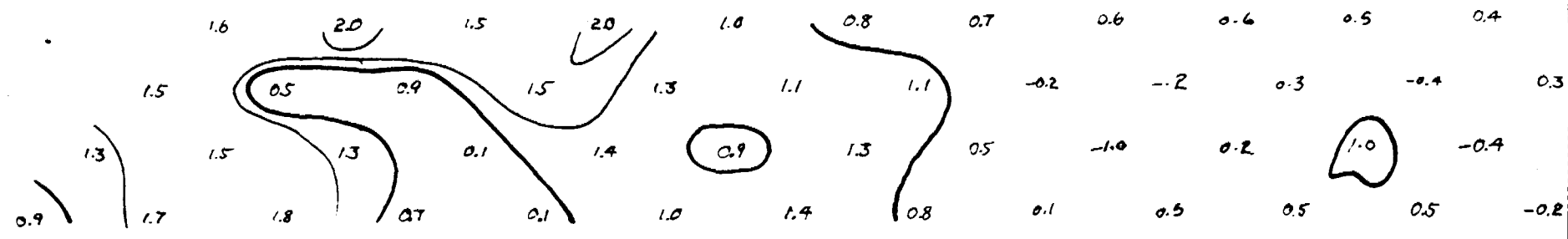
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N-3  
N-4



N-1  
N-2  
N-3  
N-4



N-1  
N-2  
N-3  
N-4



11+50.5 11+25.5 11+00.5 10+75.5 10+50.5 10+25.5 10+00.5 9+75.5 9+50.5 9+25.5 9+00.5 8+75.5 8+50.5

SPARTON RESOURCES INC

STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

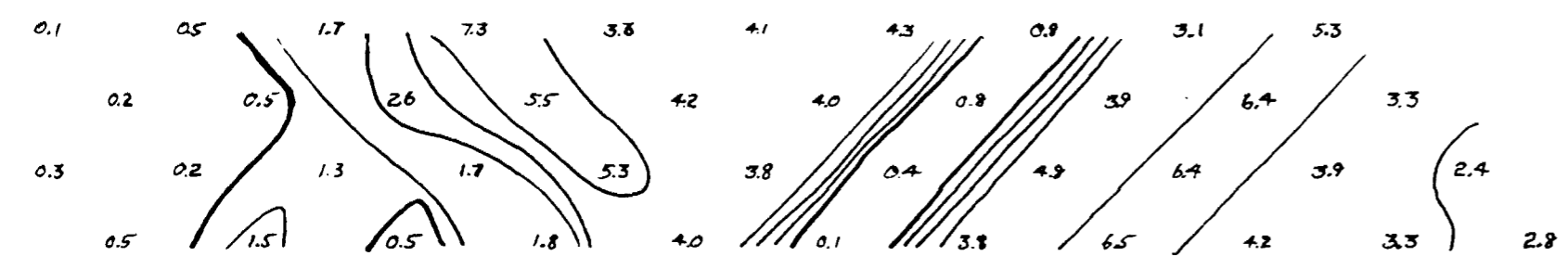
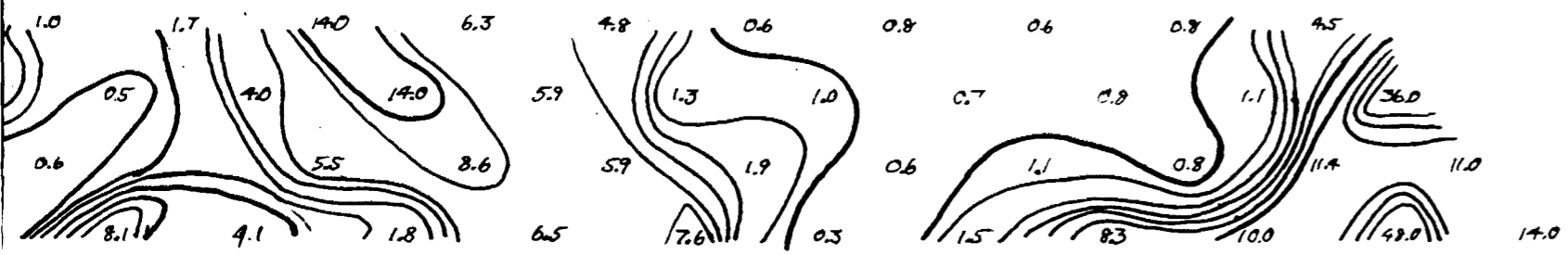
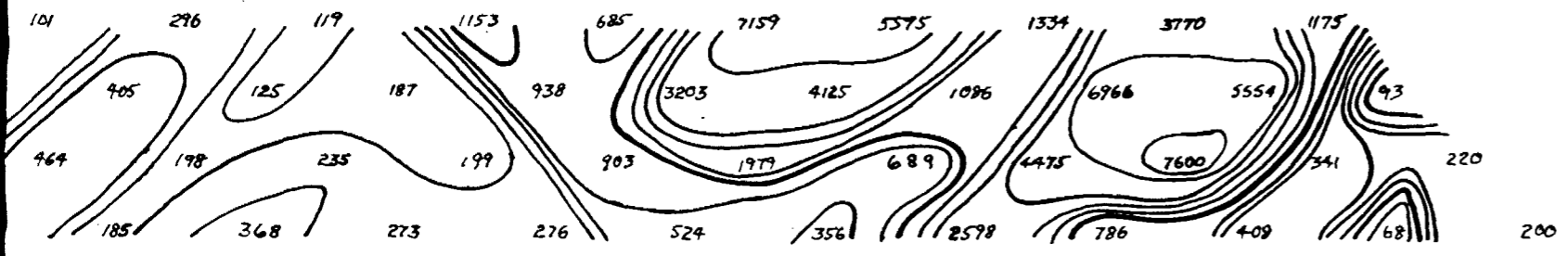
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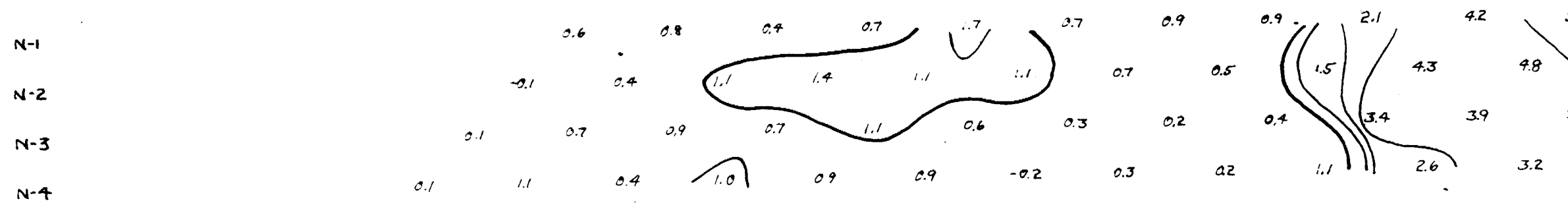
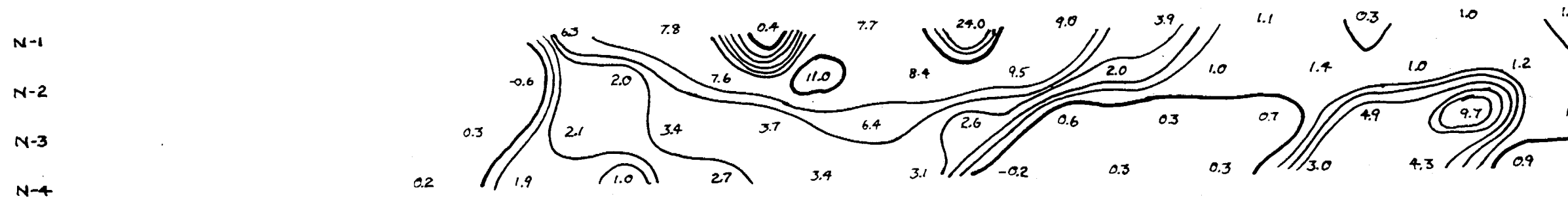
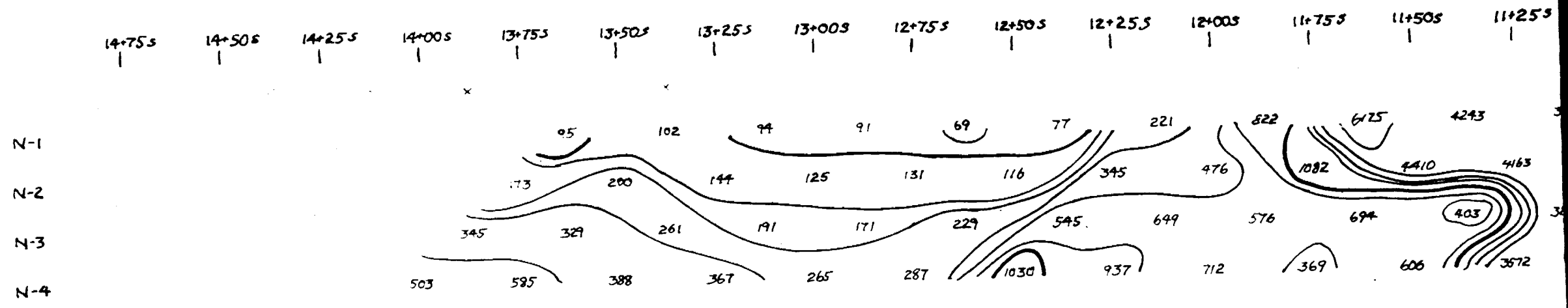
9.3

MF

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F.E.





005 10+75.5 10+50.5 10+25.5 10+00.5 9+75.5 9+50.5 9+25.5 9+00.5 8+75.5 8+50.5 8+25.5 8+00.5 7+75.5

SPARTON RESOURCES INC

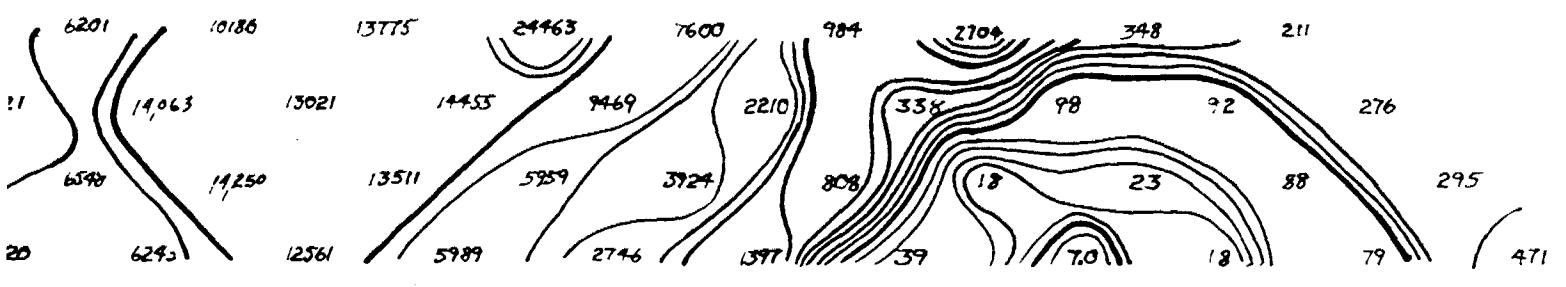
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FORT FRANCIS, ONTARIO.

HPIIP SURVEY (DIPOLE-DIPOLE)

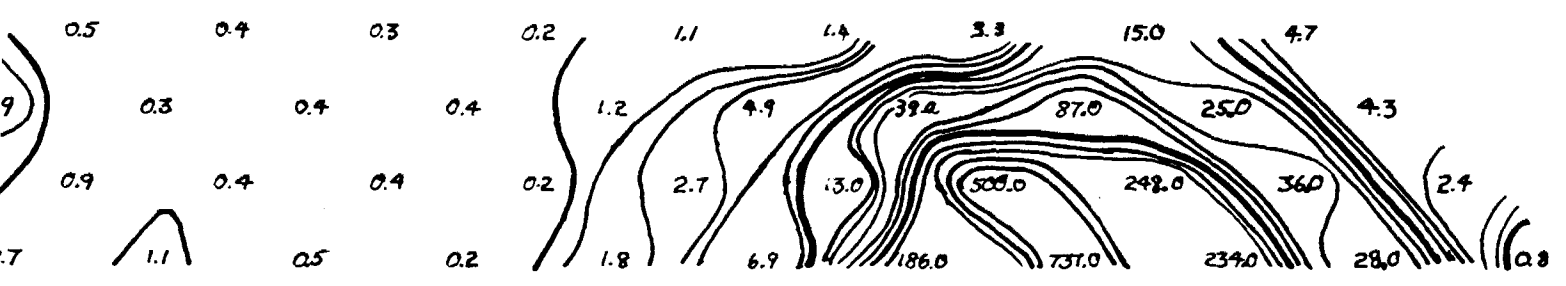
SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:



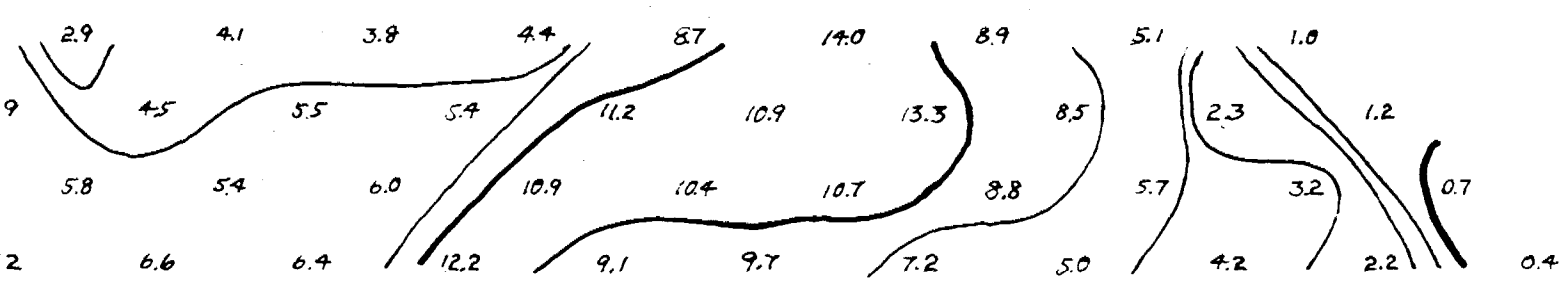
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M.F.

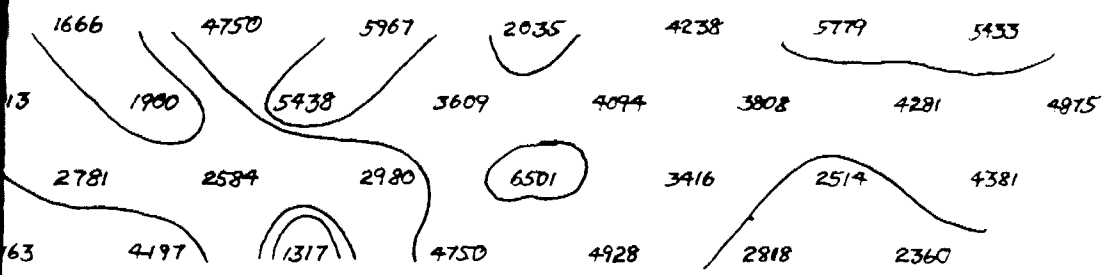
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F.E.

005    11+755    11+505    11+250    11+005    10+755    10+505    10+255    10+005    9+755



Q

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STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

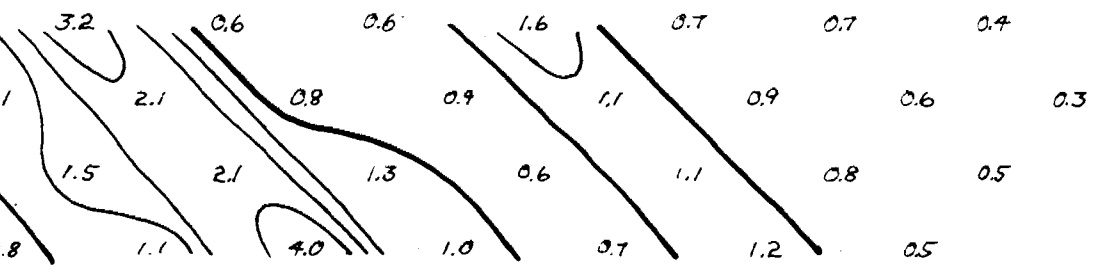
H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

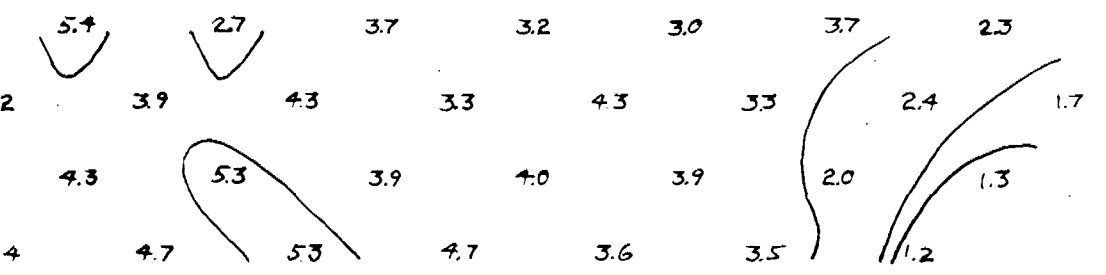
DATE:

LINE: 18 W



M.F.

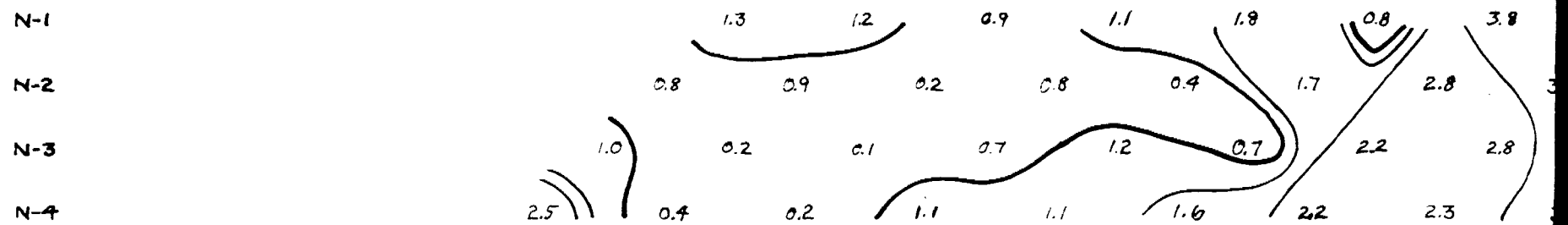
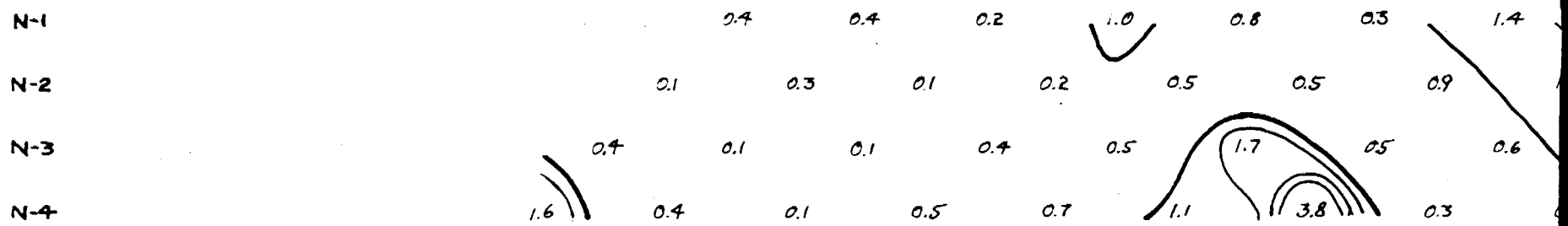
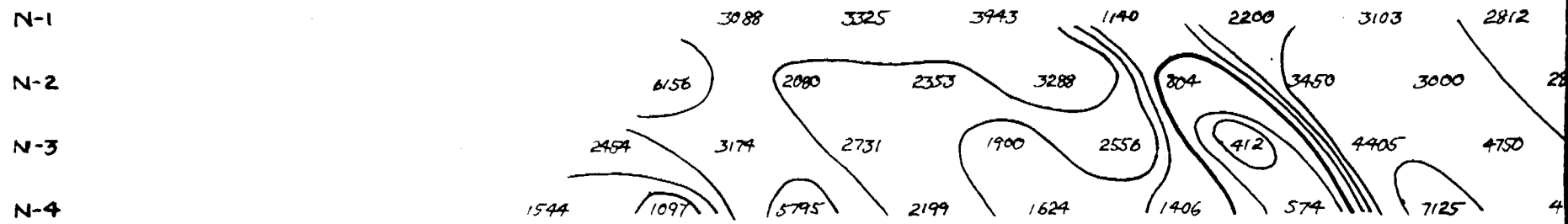
Mertens & MacNeil  
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F.E.

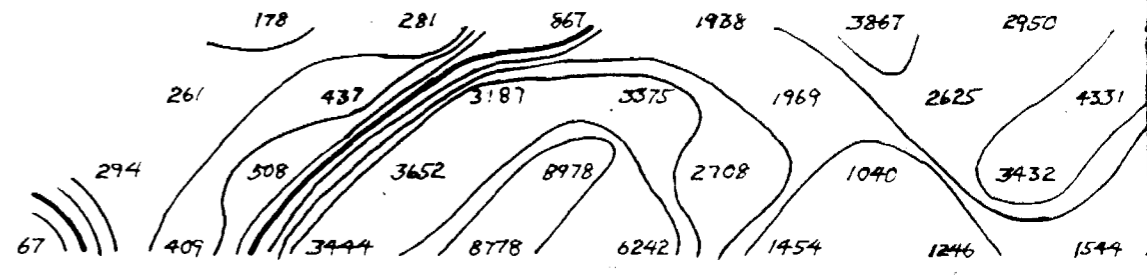


14+753 | 14+503 | 14+253 | 14+003 | 13+753 | 13+503 | 13+253 | 13+003 | 12+753 | 12+503 | 12+253 | 12

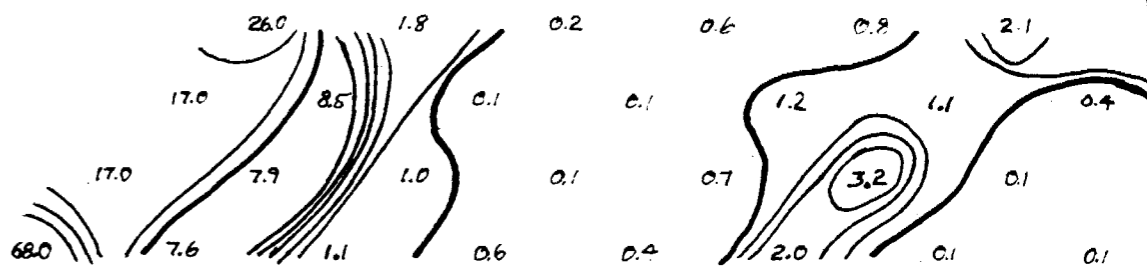


13+00S 14+75S 14+50S 14+25S 14+00S 13+75S 13+50S 13+25S 13+00S 12+75S 12+50S

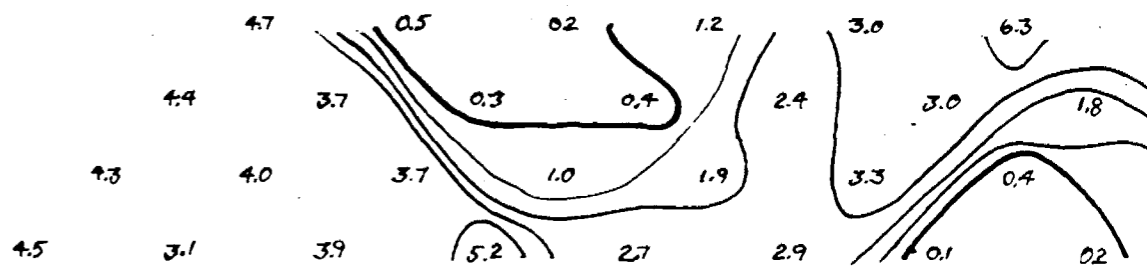
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N-4



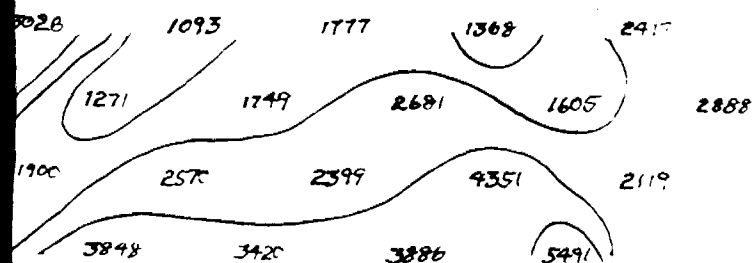
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N-3  
N-4



N-1  
N-2  
N-3  
N-4



12+25.5 12+00.5 11+75.5 11+50.5 11+25.5 11+00.5 10+75.5



C.D.

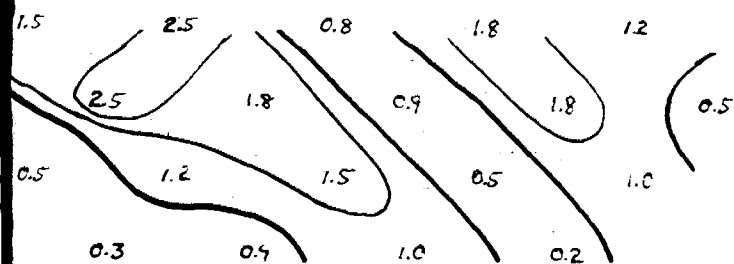
SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

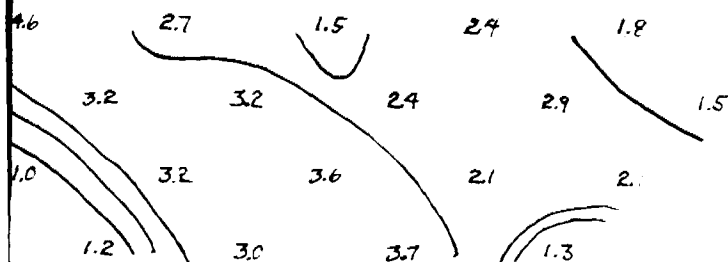
DATE:



M.F.

LINE: 19 W

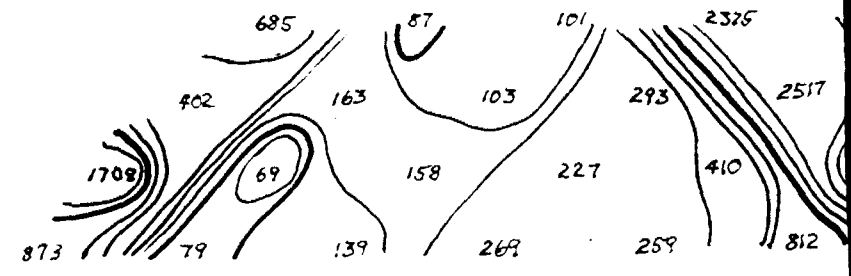
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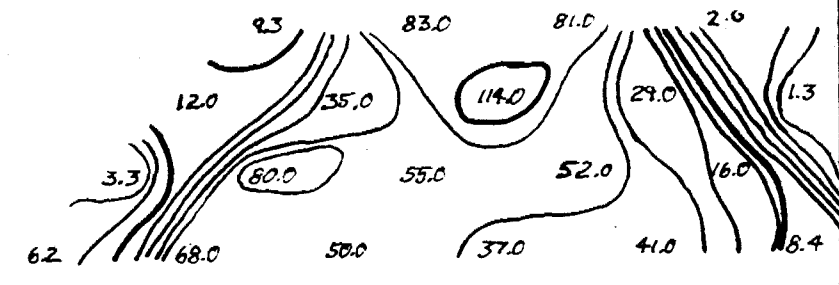
F.E.

15+00.3    14+75.5    14+50.5    14+25.5    14+00.5    13+75.5    13+50.5    13+25.5    13+00.5

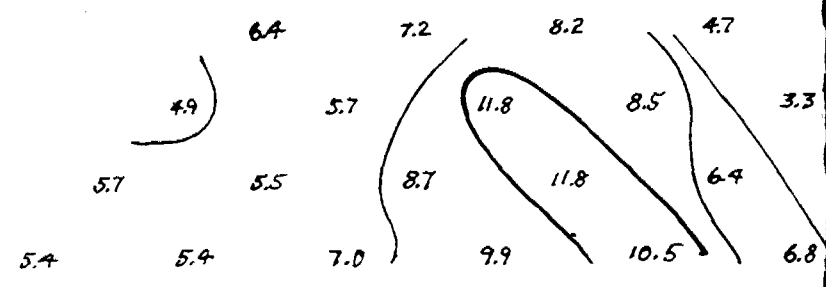
N-1  
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N-1  
N-2  
N-3  
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N-1  
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N-3  
N-4



12+75.5    12+50.5    12+25.5    12+00.5    11+75.5    11+50.5    11+25.5

SPARTON RESOURCES INC  
STRAW LAKE PROJECT  
FORT FRANCIS, ONTARIO.

H P I P SURVEY (DIPOLE - DIPOLE)

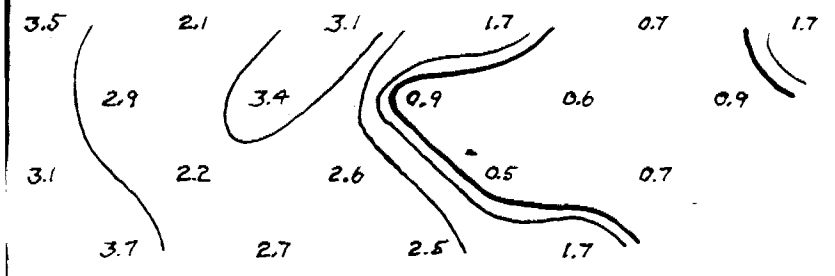
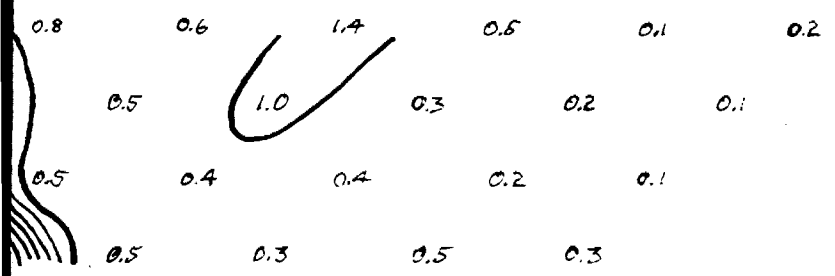
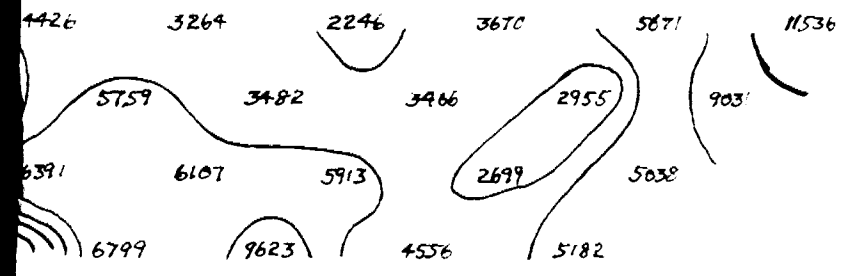
SCALE : 2.0 cm = 25.0m = Electrode Interval

FREQUENCIES : 0.3 & 5.0 Hz.

DATE:

LINE : 22 W

Mertens & MacNeil  
GEOPHYSICAL GROUND SURVEYS LTD.



DM83-3-C-113

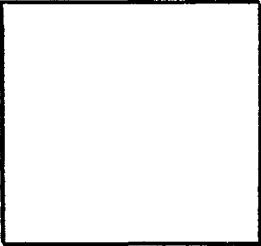

SPARTON RESOURCES INC.

STRAW LAKE PROJECT  
1983 EXPLORATION PROGRAM  
SUMMARY REPORT  
APPENDIX K

SPARTON RESOURCES INC.

DIAMOND DRILL RECORD

Hole No. SL-83-1

Hole No. <u>SL - 83-1</u> Sheet <u>3</u>	Length <u>253'</u>	Commenced <u>Nov.30/1983</u>	Dip: Collar <u>-50°</u>	Location Sketch  North  Claim No. _____ Scale: 1" = 1000'
Property <u>Straw Lake</u>	Bearing <u>North</u>	Completed <u>Dec.02/1983</u>	Etch Test      Depth      Rdg.      True	
Township	Dip <u>-50°</u>	Drilling Co. <u>Norwescon Drilling</u>	<u>No Dip Tests</u>	
Location <u>4 + 00W    0 + 60m S</u>	Objective <u>IP/VLF-EM Anomaly</u>	Core Size <u>BQ</u>		
		Casing Left in Hole <u>No</u>		
Remarks <u>Logged by: Jim Gaunt</u> <u>Core stored at Straw Lake camp</u>				

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb		
From	To									
0	8	Overburden								
8	12	Intermediate volcanic rock - Foliated with 15% quartz in narrow bands parallel to the foliation - Carbonate - quartz bands occur at random through the section - Banding lies $\approx 45^\circ$ to the core axis - Quartz rich section 9.5 - 11.5 with coarse crystalline pyrite and chlorite	10319	8.0	12.0	4.0'	Tr	252		
12	27.5	Intermediate volcanic rock - Very uniformly foliated - foliation $45^\circ$ core axis - Quartz bands coplanar with foliation - Quartz-carbonate bands are coplanar & discordant with foliation and also lie along fractures, with $> .5\%$ pyrite (fine grained)								
27.5	29.5	Intermediate tuff - Uniform foliation - mostly fine grained but shows lapilli structure in some zones. - Fracture @ 28.0 with quartz and pyrite in fractures - Medium to fine grained pyrite throughout this section $\leq 1\%$ though heavier @ 28.0 - Foliation $\approx 45^\circ$ to core axis.	10320	26.0	29.5	3.5'	Tr	49		
29.5	33.5	Intermediate volcanic rock - Fine grained - Roocular foliation $\approx 45^\circ$ to core axis - Quartz - carbonate filled fractures.								
33.5	38.0	Intermediate volcanic rock - Irregular foliation and banding @ $\approx 45^\circ$ /core axis - Quartz - carbonate filled fracture system carrying chlorite and up to 3-4% fine grained pyrite.	10321	33.0	38.0	5.0	Tr	130		



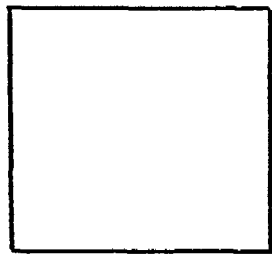





SPARTON RESOURCES INC.

DIAMOND DRILL RECORD

Hole No. SL 83-2

Hole No. <u>SL-83-2</u> Sheet <u>2</u> Property <u>Straw Lake</u> Township _____ Location <u>L-12 + 00W 1 + 50m N</u>	Length <u>333'</u> Bearing <u>South (180°)</u> Dip <u>-50°</u> Objective <u>I/P Anomaly</u>	Commenced <u>December 4, 1983</u> Completed <u>December 6, 1983</u> Drilling Co. <u>Norwescon drilling</u> Core Size <u>BQ</u> Casing Left in Hole <u>Yes</u>	Dip: Collar _____ Etch Test      Depth      Rdg.      True <u>No dip tests</u>	Location Sketch  North  Claim No. _____ Scale: 1" = 1000'
Remarks <u>Logged by Jim Gaunt</u> <u>Core stored at Straw Lake camp</u>				

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb		
From	To									
0	3	Overburden								
3	12	Intermediate volcanic rock	10327	3.0	8.0	5.0'	Tr.	50		
		- Foliated @ $\approx$ 55° to core axis	10328	8.0	12.0	4.0'	Tr.	44		
		- Heavy sericite or talc alteration along the banding - carbonate filled fracture pattern superimposed on banding								
		- Up to 2% pyrite in fine grains throughout the interval -								
		- Broken core								
12	28.5	Intermediate volcanic rock	10329	12.0	17.0	5.0'	0.32	33		
		- Foliation + 35° core axis	10330	17.0	22.0	5.0'	Tr.	58		
		- Sericite and minor talc on foliation planes	10331	22.0	28.5	6.5	Tr.	23		
		- Fine grained pyrite in stringers and disseminations to 1% through section								
28.5	60.5	Intermediate volcanic rock and felsic tuffs (intercalated)	10332	28.5	33.0	4.5	Tr.	24		
		- Foliation $\approx$ 45° to core axis	10333	33.0	38.0	5.0	Tr.	20		
		- $\leq$ 2% pyrite in coarse grained crystal tuffs	10334	38.0	43.0	5.0	Tr.	27		
		- Carbonate filled fracture zones @ 34', 51'-53', 54' and 60'.	10335	43.0	48.0	5.0	Tr.	63		
			10336	48.0	53.0	5.0	Tr.	72		
			10337	53.0	58.0	5.0	Tr.	40		
			10338	58.0	60.5	2.5	Tr.	34		
60.5	117	Felsic tuff - weakly foliated $\approx$ 45° to core axis	10339	60.5	65.0	4.5	Tr.	48		
		- fine grained to coarse grained pyrite between 5-10%	10340	65.0	70.0	5.0	Tr.	46		
		- Sericite developed along banding	10341	70.0	75.0	5.0	Tr.	10		
		- Occasional , random chlorite bands and carbonate blebs	10342	75.0	80.0	5.0	Tr.	<5		
		- Random chlorite lenses throughout	10343	80.0	85.0	5.0	Tr.	120		
			10344	85.0	90.0	5.0	Tr.	23		
			10345	90.0	95.0	5.0	Tr.	7		





## DIAMOND DRILL RECORD

Hole No. SL-83-3  
Sheet No. 2

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb				
From	To											
119.5	126.5	Felsic volcanic rock (tuff) - Rock is light coloured and fine grained containing + 85% quartz - Fine grained pyrite throughout to + 5%	10380 10381	119.5 123	123 126.5	3.5 3.5	0.02 Tr	170 41	✓			
126.5	132.5	Felsic volcanic rock (as in 51.6 to 119.5)										
129	132.5	Felsic volcanic rock (tuff) (as in 119.5 to 126.5)	10382	129	132.5	3.5	Tr	53				
132.5	165	Intermediate volcanic rock - Well developed foliation @ 45° to core axis - Heavy fracture zone with quartz filling from 154 to 157 - Fine to medium grained pyrite occurs @ -153, 155.5, 159, 160 161	10384 10383 10385	132.5 157 162	135 162 165	2.5 5' 3'	Tr Tr Tr	24 65 71				
165	170	Felsic volcanic rock - Fine grained quartz rich rock - foliation weakly developed @ + 55° to core axis - Pyrite to + 2% occurs through the interval - Quartz filled fracture zones occur @ 165-166, 168-170, fracture pattern is irregular.	10386	165	170	5'	0.01	52	✓			
170	176	Intermediate volcanic rock - Quartz filled fractures throughout the interval	10387	170	176	6'	Tr	29				
176	193	Felsic volcanic rock - Weakly developed banding 65° to core axis - Quartz filled fractures at random through the interval - Fine grained pyrite to 2% @ 185 to 186.5	10388	185	187	2'	Tr	55				
193	246.5	Intermediate volcanic rock - Weakly developed banding @ 55° to core axis - Quartz filled fracture zones occur at random through the interval - Narrow pyrite rich zones, parrallel banding with > 3% pyrite occur @ 215, 216, 219.5, 221	10389	215	221	6'	Tr	33				

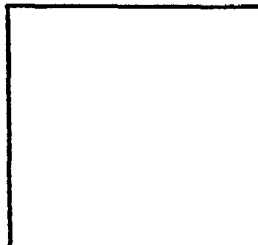


DIAMOND DRILL RECORD

Hole No. SL-83-4

Hole No. SL-83-4	Sheet 2	Length 313'	Commenced December 1983	Dip: Collar -50°
Property Straw Lake		Bearing North	Completed December 1983	
Township L-13 + 50W/1 + 50N		Dip 50°	Drilling Co. Norwescon Drilling	Etch Test Depth Rdg. True
Location		Objective IP Anomaly	Core Size BQ	No tests
			Casing Left in Hole No	

Location Sketch



North ↑

Claim No. _____

Scale: 1" = 1000'

Remarks Drilled by: Mr. Duggan  
 Logged by: Jim Gaunt  
 Core stored at Straw Lake

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb		
From	To									
0	8	Overburden								
8	18	Intermediate volcanic rock	10701	8	13	5	0.01	357	✓	
		- Weakly banded @ 45° to the core axis	10702	13	18	5	Tr.	86		
		- Rock is fractured and weathered to 13'								
		- Quartz - carbonate veins @ 11' - 2"								
		12' - 2"								
		16.5' - 1"								
		- Fine and medium grained disseminated pyrite occurs through the interval								
18	52.5	Felsic volcanic rock	10703	18	23	5	Tr.	140	●	
		- Vaguely banded @ 45° - 60° to the core axis	10704	23	28	5	Tr.	26		
		- Rock is fractured/crushed and shows heavy sericite developemnt along the fracture planes	10705	28	33	5	Tr.	13		
		- Quartz veins occur @ 21' - 2"	10706	33	38	5	Tr.	16		
		22' - 2"	10707	38	43	5	Tr.	150	●	
		- Quartz eyes and blebs occur at random through the interval	10708	43	48	5	Tr.	N.S.		
		- Fine & coarse grained pyrite occurs up to 15% through the section	10709	48	52.5	4.5	Tr.	20		
52.5	124	Intermediate volcanic rock	10710	53	55	2	Tr.	17		
		- Well developed banding @ 45°-55° to the core axis	10711	61.5	62.5	1	Tr.	12		
		- Rock is green/grey in colour and shows occasional lapilli forms and minor quartz eye development	10712	66	68.5	2.5	Tr.	10		
		- Quartz carbonate filled fractures occur @ 67-68, 69.5, 72, 73, 78, 82-83, 95, 96.	10713	84	86	2	Tr.	13		
			10714	102	107	5	Tr.	6		
		- Pyrite occurs in fine grained bands and disseminations through the interval - up to 2%	10715	107	113	6	Tr.	< 5		
			10716	113	118	5	Tr.	6		
			10717	118	124	6	Tr.	12		

## SPARTON RESOURCES INC.

## DIAMOND DRILL RECORD

Hole No. SL-83-4

Sheet No. 2

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb			
From	To										
124	159	Intermediate volcanic rock (Lapilli tuff)	10718	132	134	2	Tr.	6			
		- Weakly banded @ 45° to 50° to the core axis	10719	138	143	5	Tr.	8			
		- Lapilli structures are strong through the section	10720	143	148	5	Tr.	13			
		- Fine grained pyrite concentrations, occurs from 138 to 152	10721	148	152	2	Tr.	16			
159	179	Felsic volcanic rock (tuff)	10722	159	164	5	Tr.	20			
		- Vaguely banded @ 60° to core axis	10723	164	169	5	Tr.	21			
		- Medium grained, grey coloured rock	10724	169	174	5	Tr.	< 5			
		- Coarse to medium grained disseminated pyrite through the section to 5%	10725	174	179	5	Tr.	23			
179	194	Intermediate volcanic rock (tuff)									
		- Strongly banded @ 45-55° to the core axis									
		- Narrow bands of fine grained felsic tuff occurs from 87 to 90 feet									
		- Random quartz filled fractures occur throughout the section									
		- Quartz veins occur @ 185, 192-192.5									
194	232	Intermediate volcanic rock (Lapilli tuff)	10726	197	199.5	2.5	Tr.	60			
		- Well developed banding @ 50°-60° to the core axis	10727	210	213	3	Tr.	20			
		- Lapilli structures are exhibited throughout	10728	216.5	217.5	1	Tr.	23			
		- Quartz eyes are strongly developed between 194-207 and 219-220	10729	228	229	1	Tr.	6			
		- Chlorite is developed along the banding planes through the interval									
		- To 1% disseminated pyrite throughout and concentrations in narrow bands to 30% occur through 198 to 210 and @ 228'									
232	313	Intermediate volcanic rock (tuff)	10730	233.5	238.5	5	Tr.	13			
		- Well developed banding @ 60° to the core axis	10731	241.5	246	4.5	Tr.	17			
		- Sericite and chlorite are developed on the banding planes	10732	246	251.5	5.5	Tr.	17			
		- 2-3% disseminated pyrite throughout and concentrations in	10733	251.5	256	4.5	Tr.	15			
		- concentrated zones to 10% occur in .25-2.0" bands	10734	256	261	5	Tr.	23			
			10735	261	266	5	Tr.	< 5			
			10736	266	271	5	Tr.	< 5			
			10737	271	276	5	Tr.	56			
			10738	276	281	5	Tr.	23			
		END OF HOLE 313	10739	281	286	5	Tr.	50			
			10740	286	291	5	Tr.	20			
			10741	291	296	5	Tr.	27			
		Casing left in hole.	10742	296	301	5	Tr.	322			
		Assay see SL-83-1	10743	301	306	5	Tr.	157			
		Atomic see SL-83-1	10744	306	311	5	Tr.	33			





## DIAMOND DRILL RECORD

Hole No. SL-83-5

Sheet No. 2

Footage		DESCRIPTION	Sample No.	From	To	Length	Au oz/ton	Au ppb			
From	To										
		- Pyrite zones are developed @ 96.5'									
		100-102.5 - 2-3%									
		103.5-104.5 - 5%									
		115.5-116.5 - 5%									
		133-133.5 - 2%									
		138-140 - 2%									
154	234.	Intermediate volcanic rock (fine grained tuff)	10755	154	159	5	Tr	< 5			
		- Banding - poorly developed @ 45° to core axis	10756	159	164	5	Tr	< 5			
		- Rock is grey green coloured with sericite and chlorite developed on the banding planes	10757	164	169	5	Tr	9			
			10758	169	174	5	Tr	< 5			
			10759	174	179	5	Tr	< 5			
		- Occasional quartz filled fractures occur subparallel to the banding	10760	179	182	3	Tr	< 5			
			10761	206	212	6	Tr	< 5			
		- Medium to fine grained pyrite zones occur @ 154-182 - 2-3%	10762	218	218.5	0.5	Tr	50			
		206-212 - 2-3%	10763	220	225	5	Tr	31			
		218-218.5 - 2-3%	10764	229	234	5	Tr	10			
		220-225 - 2-3%									
		229-234 - 2-3%									
234	302	Felsic volcanic rock (tuff)	20765	234	239	5	Tr	13			
		- Banded vaguely @ 50° to core axis	10766	239	244	5	Tr	30			
		- Rock is light grey coloured, fine grained and quartz rich	10767	244	249	5	Tr	< 5			
			10768	249	254	5	Tr	13			
		- Zones of fine to medium grained pyrite up to 3-4% occur throughout this interval	10769	254	259	5	Tr	15			
			10770	259	264	5	Tr	10			
			10771	264	269	5	Tr	7			
			10772	269	274	5	Tr	26			
			10773	274	379	5	0.01	804			✓
			10774	279	284	5	Tr	26			
			10775	284	289	5	Tr	33			
			10776	289	294	5	Tr	38			
			10777	294	299	5	Tr	48			
			10778	299	302	3	Tr	20			
302	354	Felsic to intermediate volcanic rock (tuff)	10779	302	307	5	Tr	13			
		- Inter banded felsic and intermediate lapilli flows - banding @ 45° to core axis	10780	307	312	5	Tr	20			
			10781	312	316	4	Tr	17			





52F03NE0019 63.4320 NAPANEE LAKE

010

SPARTON RESOURCES INC.  
STRAW LAKE PROJECT  
SUMMARY REPORT  
1983 EXPLORATION PROGRAM



52F03NE0019 63.4320 NAPANEE LAKE

010C

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SPARTON RESOURCES INC.  
STRAW LAKE PROJECT  
SECTION 1  
INTRODUCTION  
1983 EXPLORATION PROGRAM

This report is presented to fulfill the requirements of The Ontario Mineral Exploration Program Act, 1980 in Application for Grant or Certificate of Entitlement to Tax Credit for Designated Program OM83-3-C-113.

Application is made in the name of:

SPARTON RESOURCES INC.  
520-67 RICHMOND STREET WEST  
TORONTO, ONTARIO

#### LOCATION and ACCESS

-----

The Straw Lake property is located in Northwest Ontario on N.T.S. 52 F/3. Straw Lake which is central to the property is approximately 65km due North of the Town of Fort Francis and 81km southwest of the Town of Dryden.

The property is accessible year round by car/truck either south from Hiway 17 at Dryden or north from Hiway 11 via Hiway 805 to Cedar Narrows Road. Cedar Narrows Road is a well maintained gravel road which transects the Straw Lake property. The northeast arm of Straw Lake, and the base camp are at km 42 of Cedar Narrows Road

#### PROPERTY

-----

The Straw Lake claim group consists of 239 unpatented mining claims as follows:

K638827 - K638846 inclusive	20
K677701 - K677758 inclusive	58
K677776 - K677828 inclusive	53
K677850 - K677894 inclusive	45
K677910 - K677913 inclusive	4
K677925 - K677983 inclusive	59

All claims are recorded in the Kenora Mining Division on plans M-2469, M-2471, and M-2430.

#### GRID-LINECUTTING

-----

An exploration grid has been established on all land and water claims. Line spacing is 100m with stations established at 25m intervals. The baseline trends east-west on grid sheets 1, 2 and 3 and on the East Grid, and 070 on the West Grid and grid sheets 4, 5 and 6. Cross lines are always perpendicular to the baselines.

#### SUMMARY OF EXPLORATION

-----

This report details the results of a major exploration program undertaken by Sparton Resources Inc. Surveys include complete coverage of all claims with







**LEGEND**

MISTER LAKE PROSPECTING  
CONTRACT 1983

- x Rock sample location
- ⊙ Float
- ..... T-9 Traverse route, number
- Claim boundary

N.T.S.	COMPILED BY: Jeff Scouten David Scouten Stephen Johnston Richard Nixon
DATE: June/July 1983	SCALE: 1" = 1/4 mile

#63.4320



55FR31N019 63.4320 NAPANEE LAKE

10N

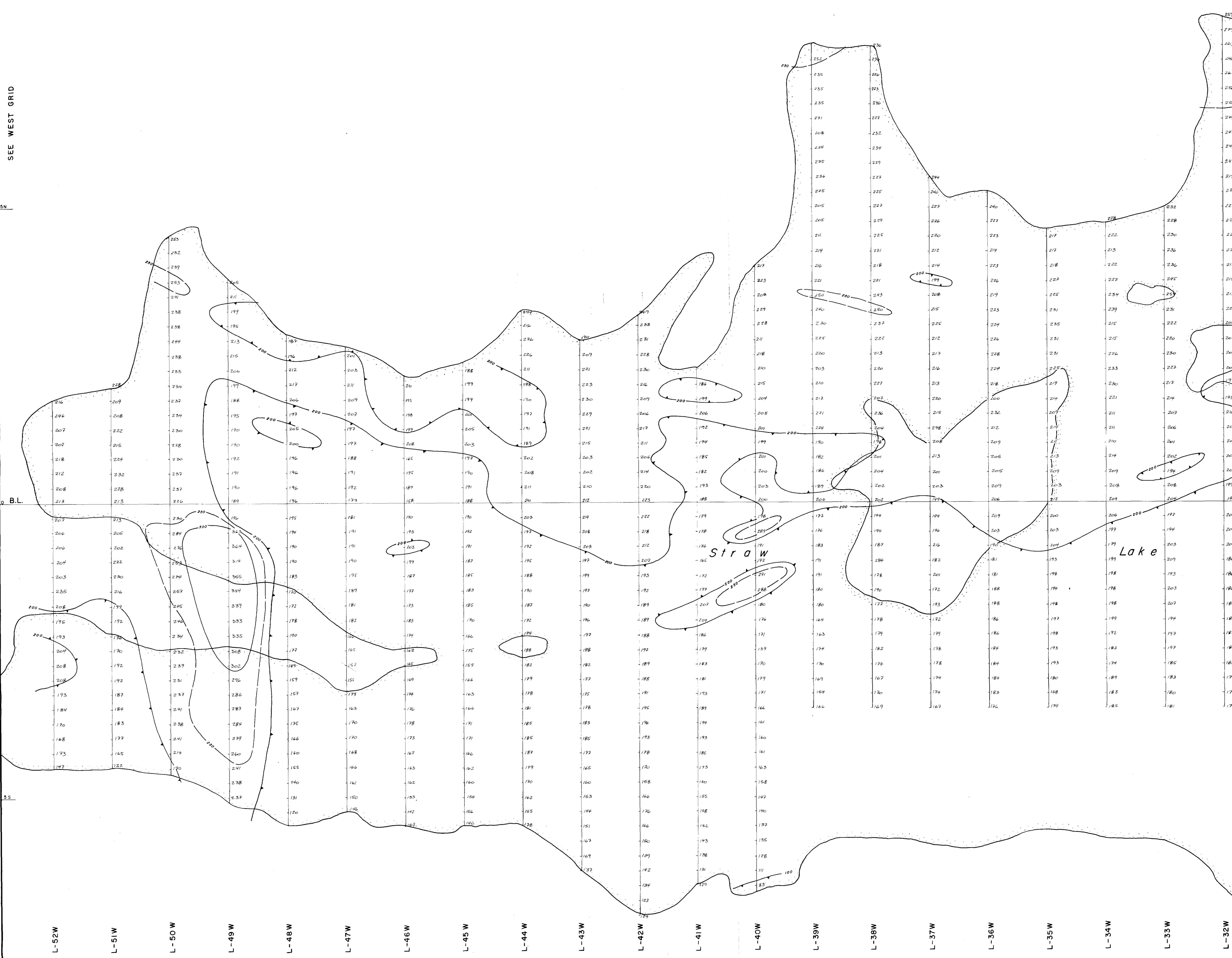
10N

5N

0 B.L.

5S

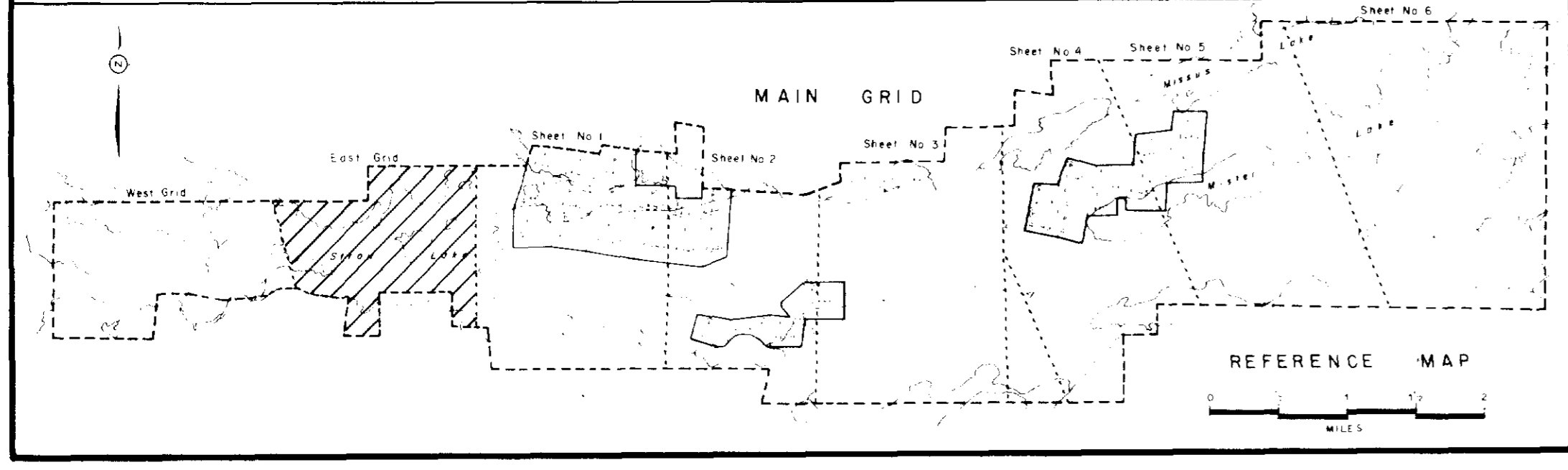
SEE WEST GRID



L-52W L-51W L-50W L-49W L-48W L-47W L-46W L-45W L-44W L-43W L-42W L-41W L-40W L-39W L-38W L-37W L-36W L-35W L-34W L-33W L-32W



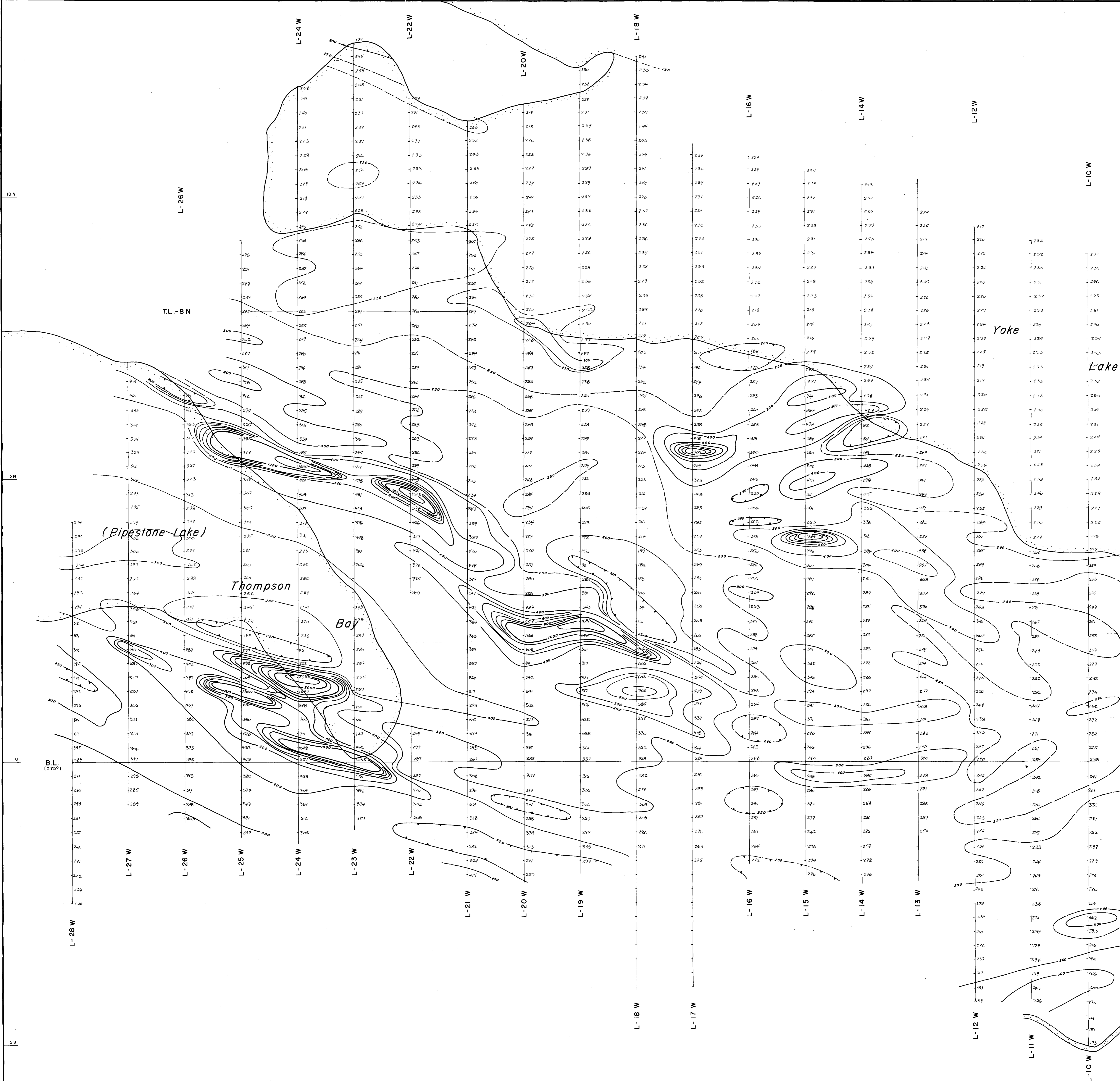
220



LEGEND

- ↑ Magnetic values in gammas
- Datum 99,000 gammas
- 1000 gamma contours
- 100 gamma contours
- Map low
- Contour interval - 100 gammas to 1000,
- 500 gammas to 5000
- Instrument - Scintrex MP-2 Proton mag





(Pipestone Lake)

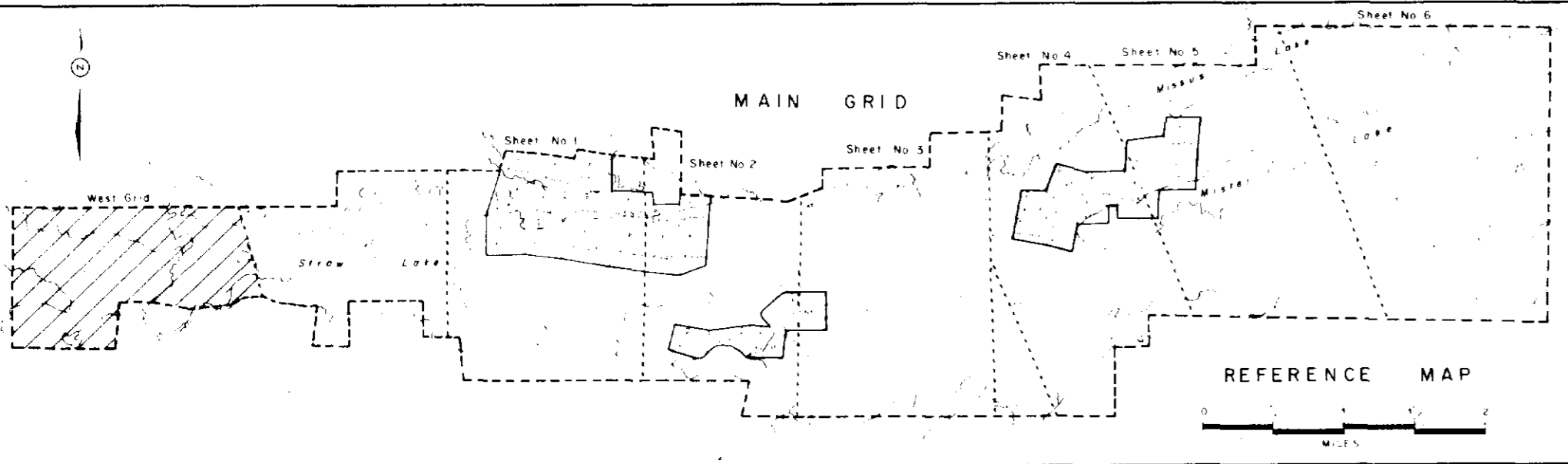
Thompson Bay

Yoke

lake

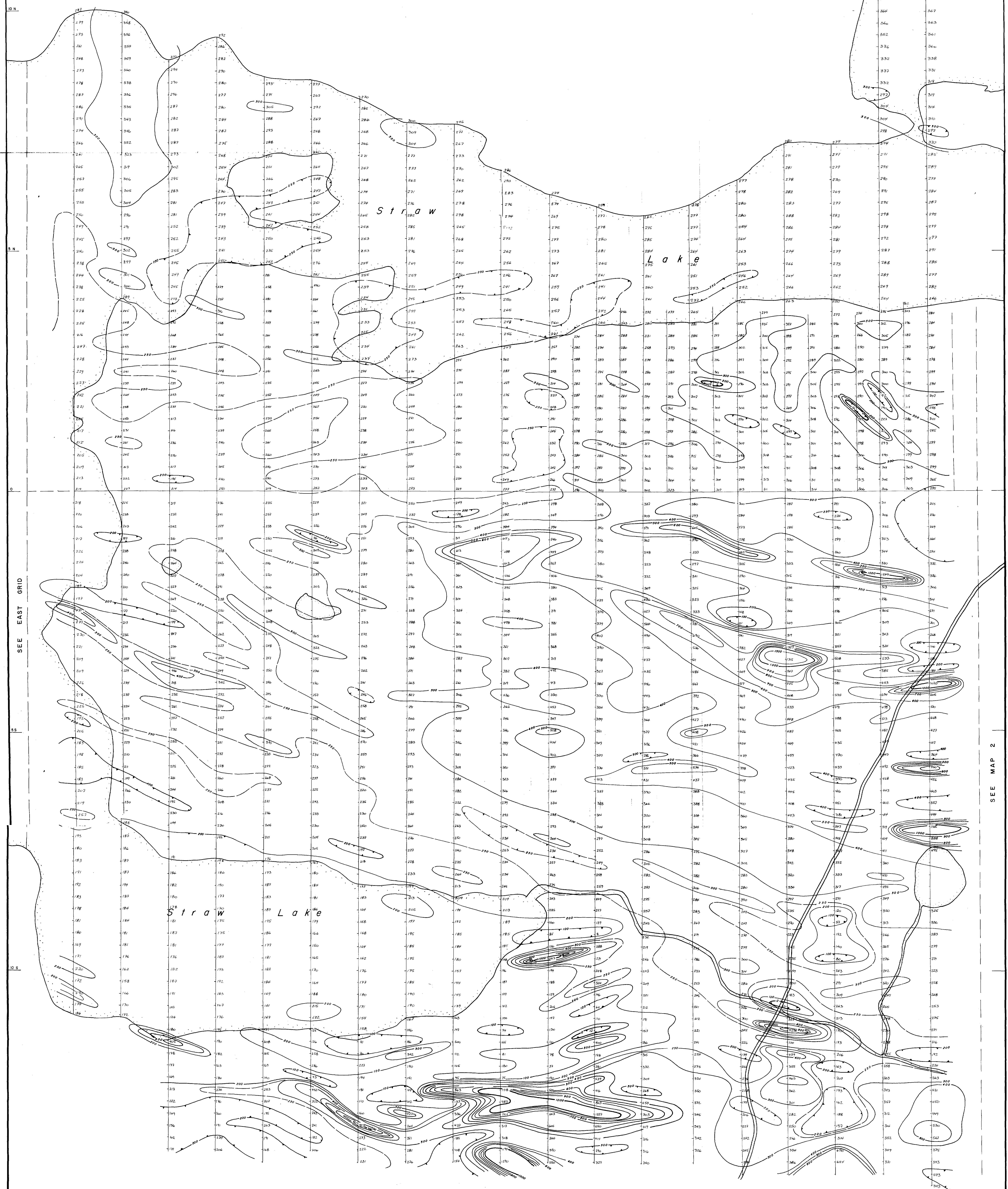


230





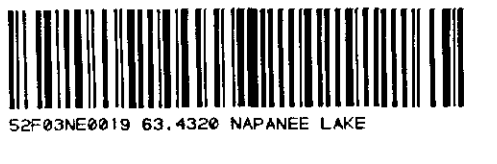
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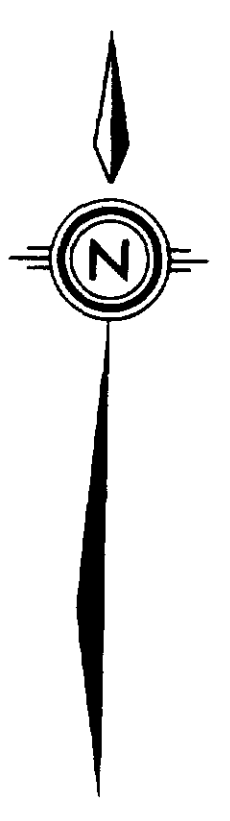
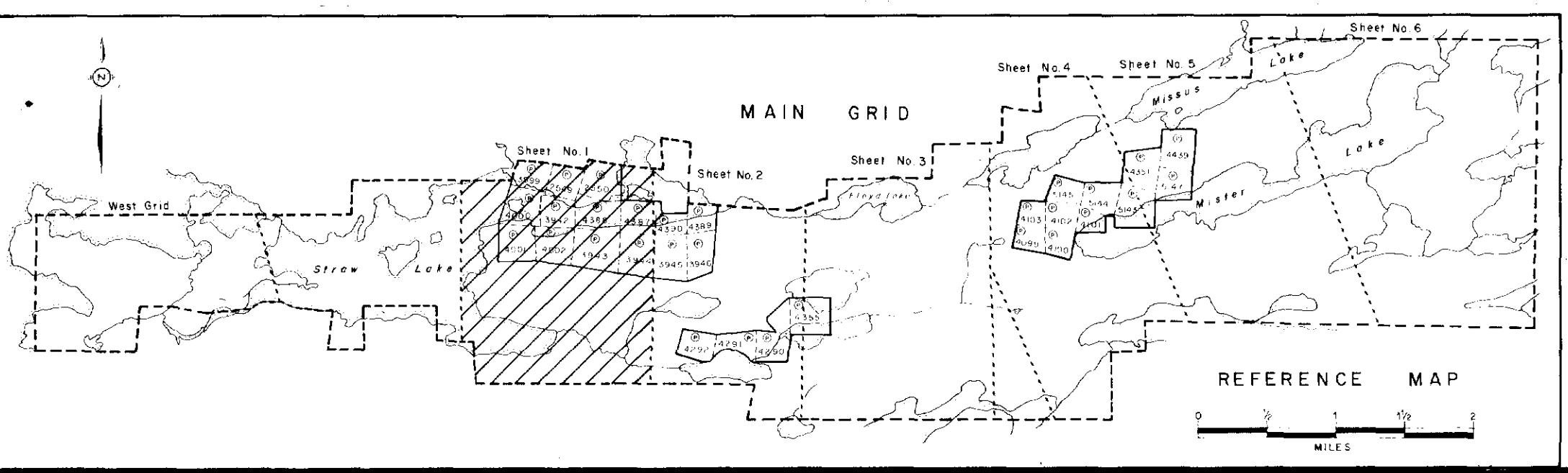
SEE EAST GRID

SEE MAP 2

L-26W L-25W L-24W L-23W L-22W L-21W L-20W L-19W L-18W L-17W L-16W L-15W L-14W L-13W L-12W L-11W L-10W L-9W



240



LEGEND

- 1/2 Magnetic values in gammas
- Datum 59,000 gammas
- 1000 gamma contours
- 500 gamma contours
- 250 gamma contours
- Contour interval - 100 gammas to 1000, 500 gammas to 5000
- Instrument - Sciencex MP-2 Proton mag

#63-4320

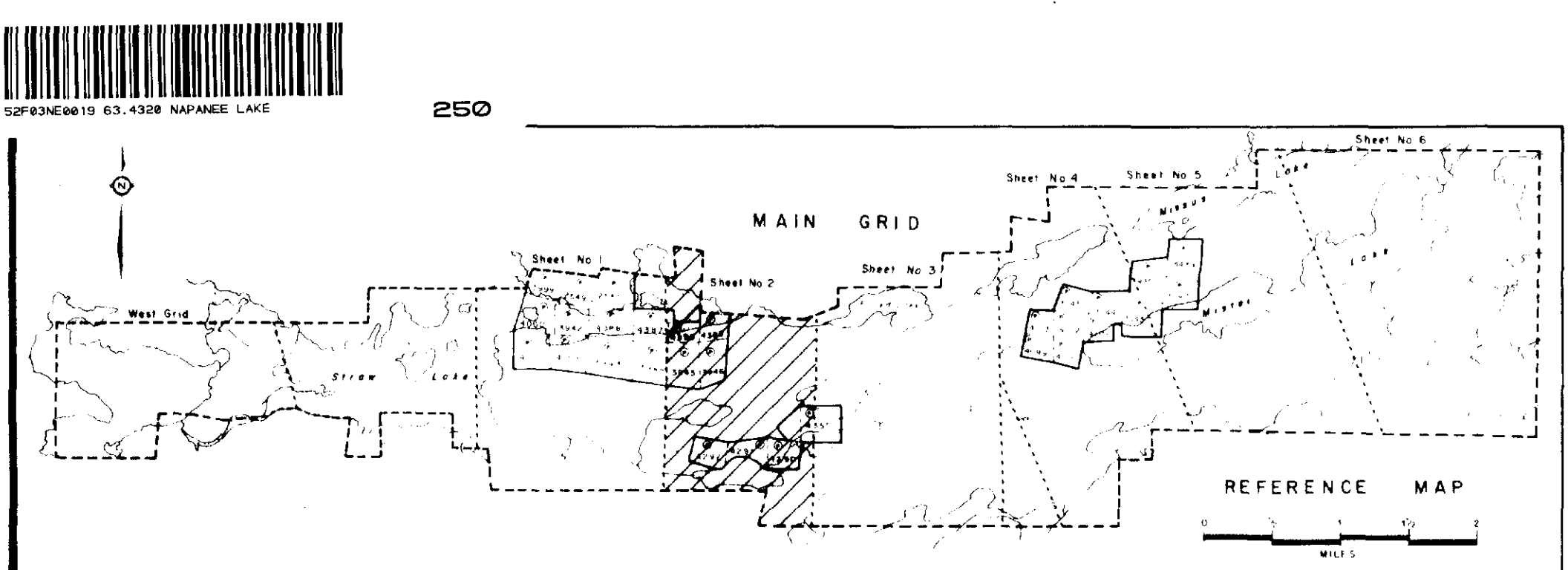
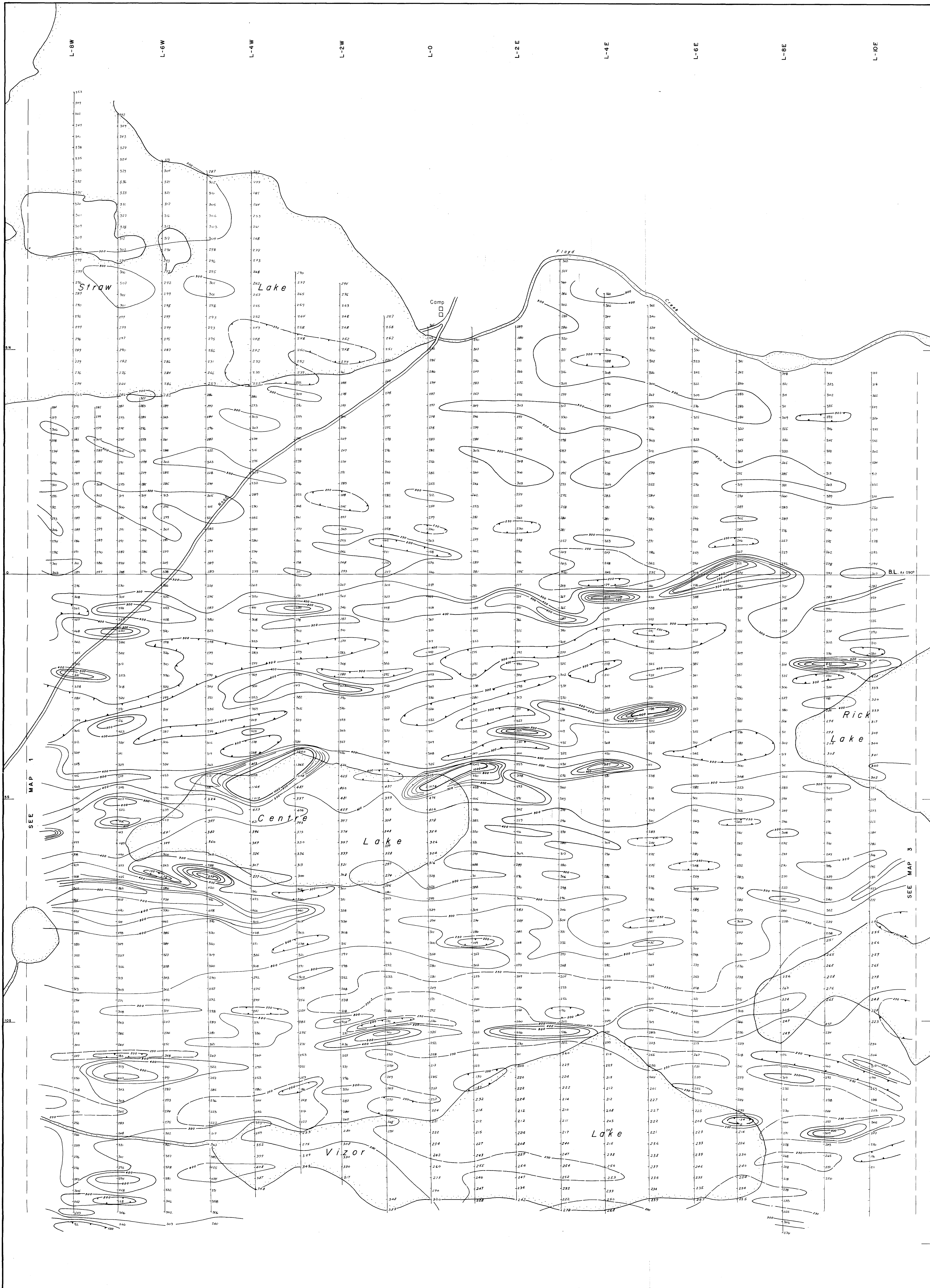
SPARTON RESOURCES INC.

STRAW LAKE PROJECT  
MAIN GRID, SHEET NO. 1

MAGNETOMETER SURVEY

SCALE: 1:2500 N.T.S. DATE: DEC., 1983





**LEGEND**

- Magnetic values in gammas
- Contour 50,000 gammas
- 1000 gamma contours
- 100 gamma contours
- Mag low
- Contour interval - 100 gammas to 1000, 500 gammas to 5000
- Instrument - Sciatrix MP-2 Proton mag

#63-4320

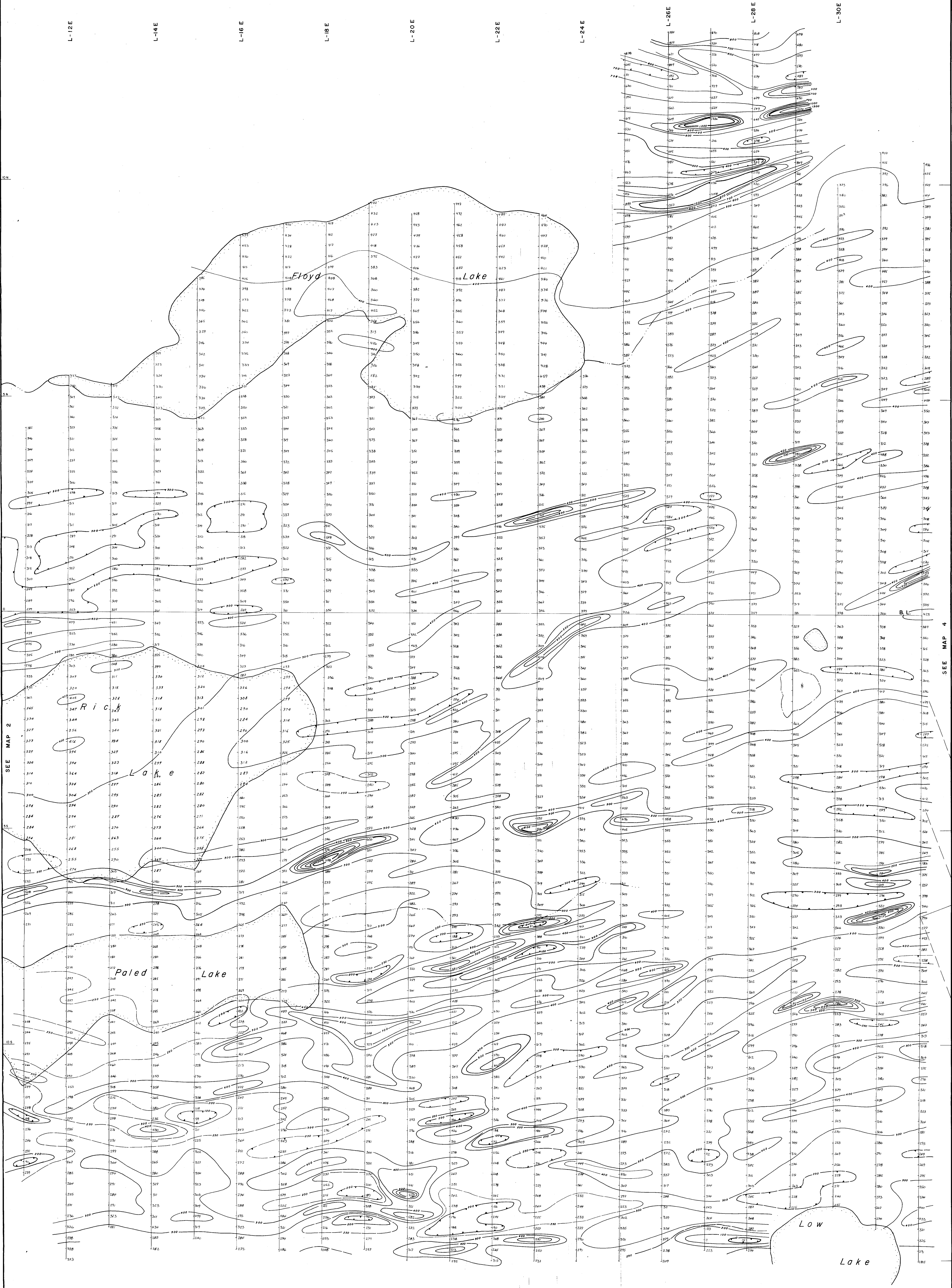
**SPARTON RESOURCES INC.**

STRAW LAKE PROJECT  
MAIN GRID, SHEET NO. 2

MAGNETOMETER SURVEY

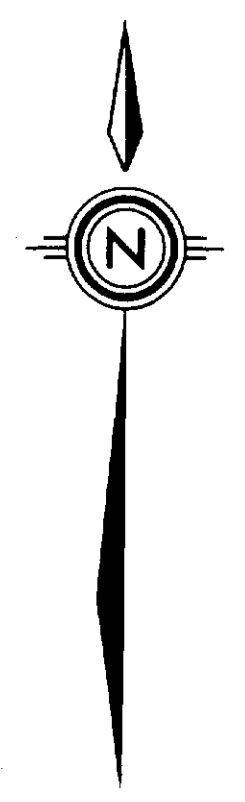
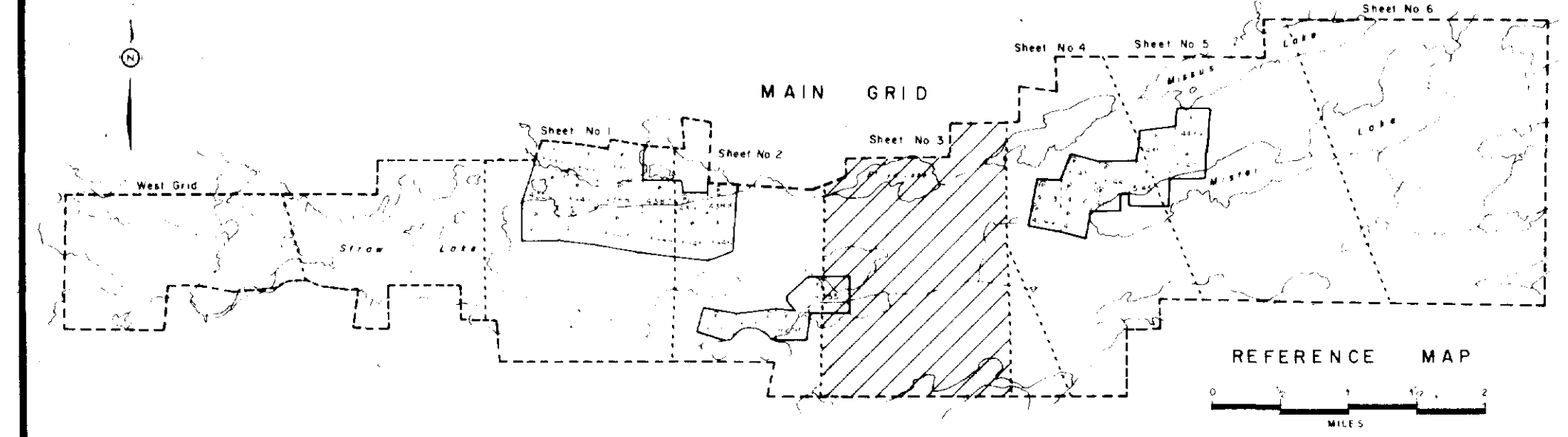
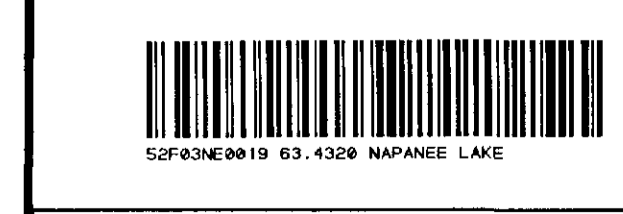
SCALE: 1:2500 N.T.S. DATE: DEC., 1983





L-11E L-12E L-13E L-14E L-15E L-16E L-17E L-18E L-19E L-20E L-21E L-22E L-23E L-24E L-25E L-26E L-27E L-28E L-29E L-30E L-31E

115N 114N 113N 112N 111N 110N 109N 108N 107N 106N 105N



**LEGEND**  
 Magnetic values in gammas  
 Datum: 59,000 gammas  
 1000 gamma contours  
 100 gamma contours  
 Mag. low  
 Contour interval - 100 gammas to 1000,  
 500 gammas to 9000  
 Instrument - Scintrex MP-2 Proton mag.

#63-4320

**SPARTON RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 3**

**MAGNETOMETER SURVEY**

SCALE: 1:2500 N.T.S. 52 F/3 DATE: DEC. 1983

S U E M A P 4



20 N

15 N

10 N

5 N

0

5 S

L-38 E

L-40 E

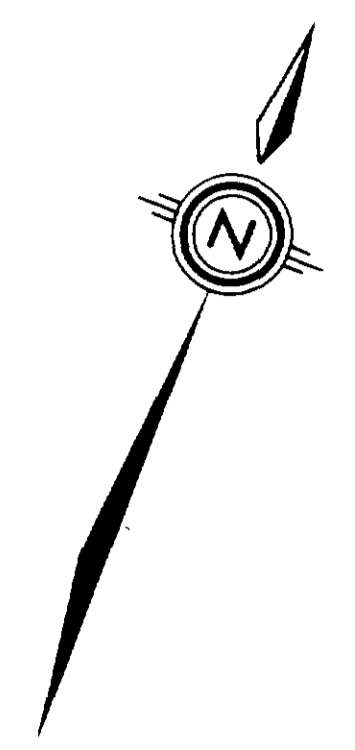
L-42 E

L-44 E

L-46 E

L-48 E

L-50 E



No Name Lake

Lake

Mister

Manitou

Stretch

L-33 E

L-34 E

L-35 E

L-36 E

L-37 E

L-38 E

L-39 E

L-40 E

L-41 E

L-42 E

L-43 E

L-44 E

L-45 E

L-46 E

L-47 E

L-48 E

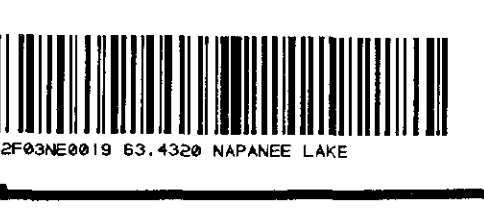
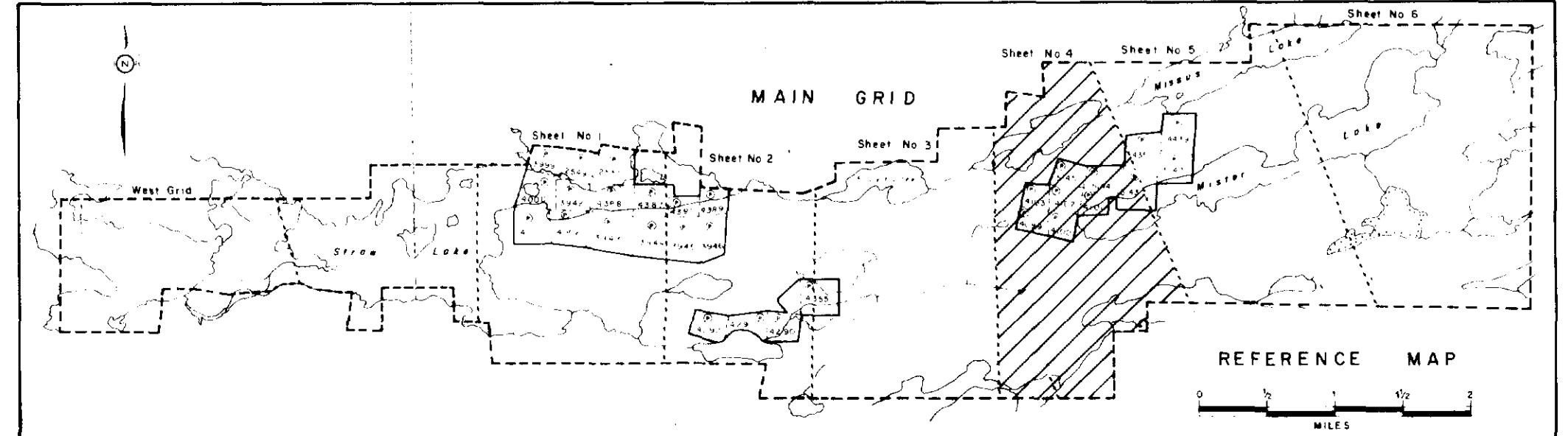
L-49 E

L-50 E

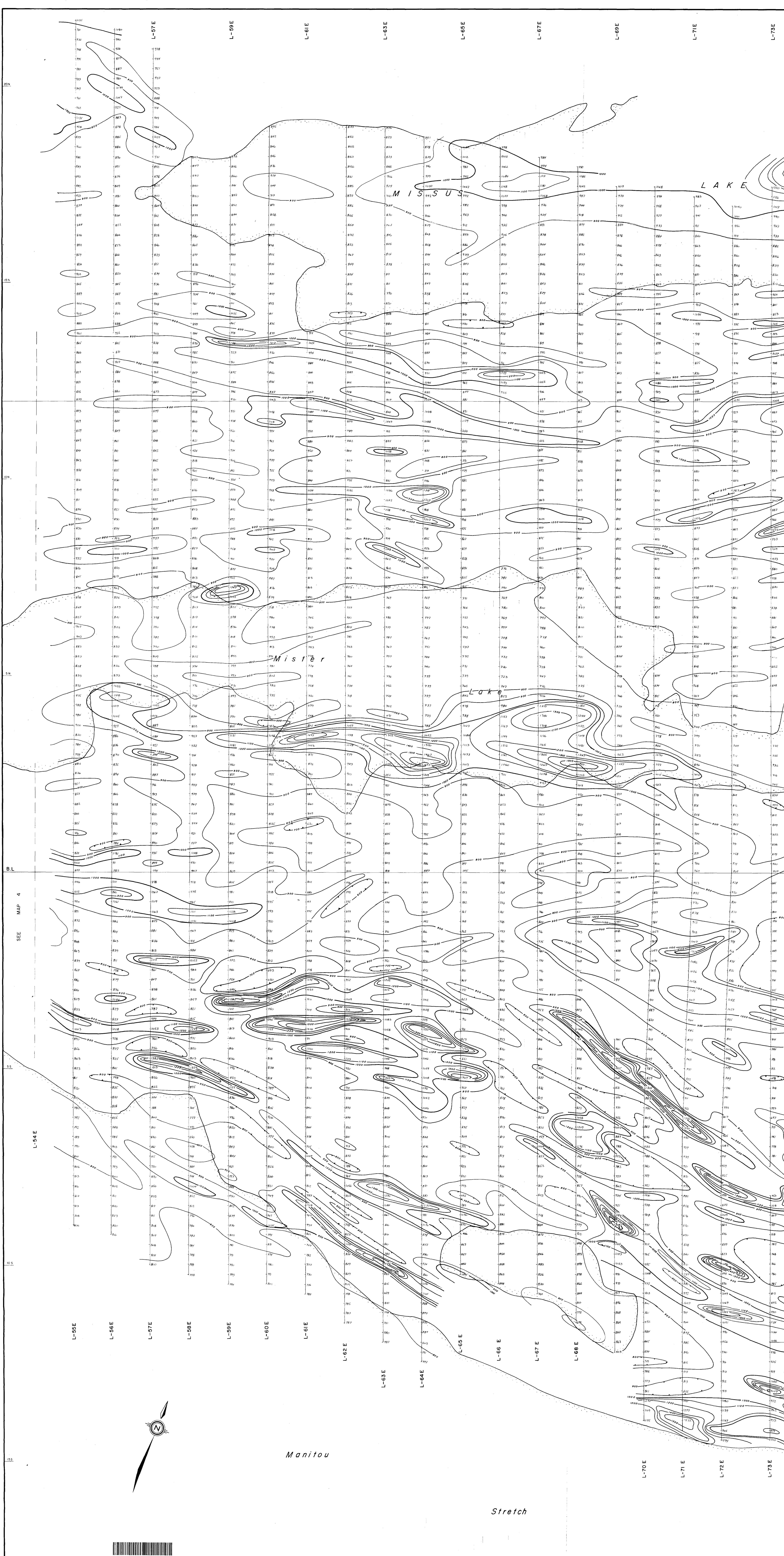
L-51 E

LEGEND

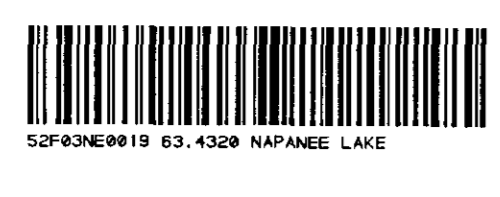
- Magnetic values in gammas
- Datum 58,500 gammas
- 1000 gamma contours
- 100 gamma contours
- Mag low
- Contour interval - 100 gammas to 1000
- 500 gammas to 5000
- Instrument - Scintrex MP-2, Picton, Ont.



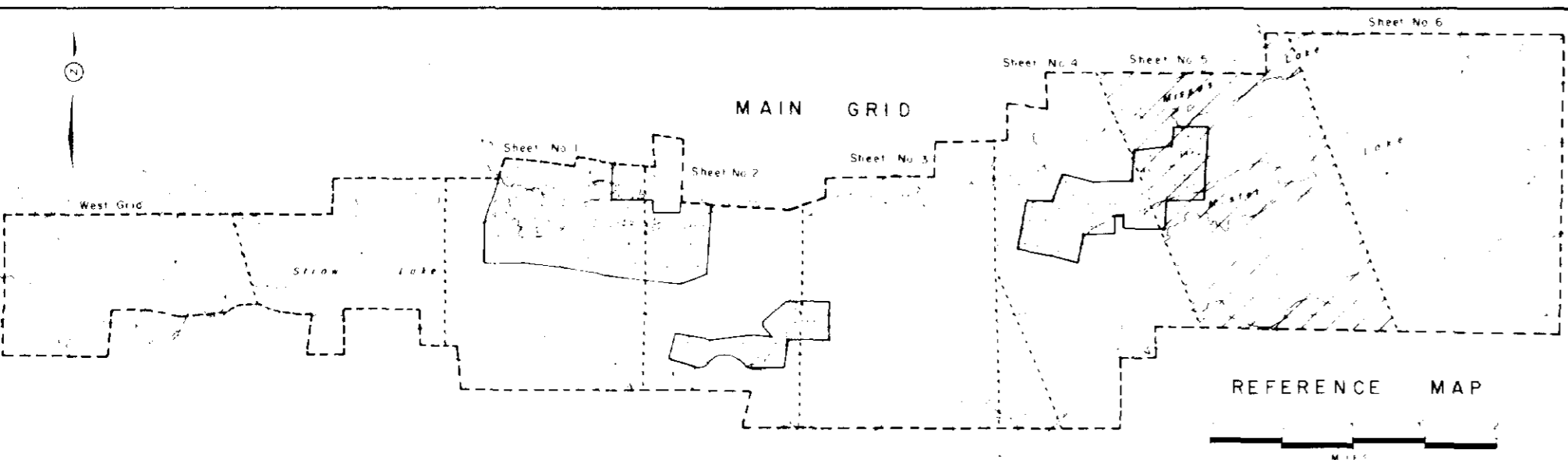




SEE MAP 4



260



Manitou

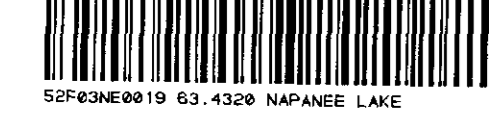
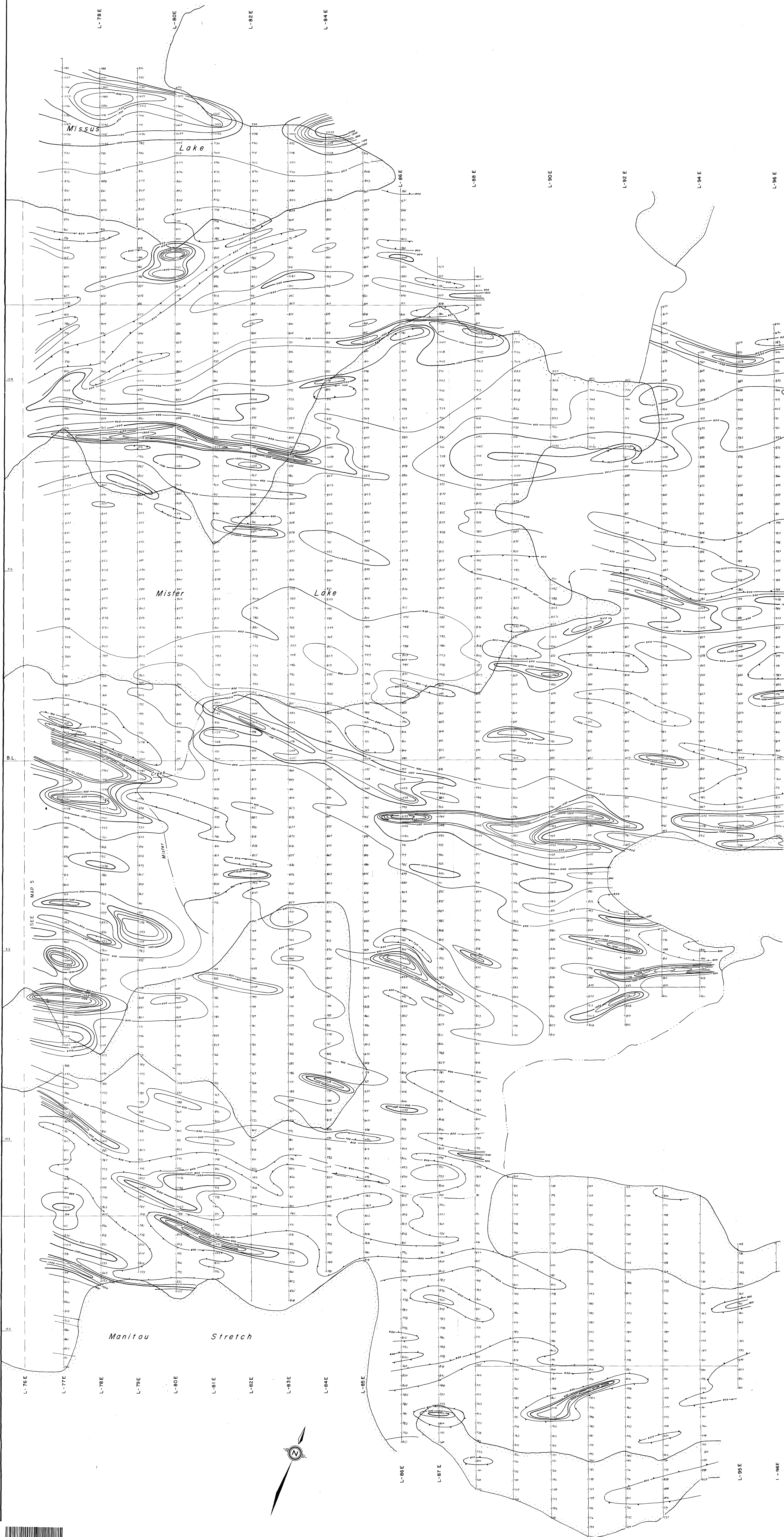
Stretch

**LEGEND**

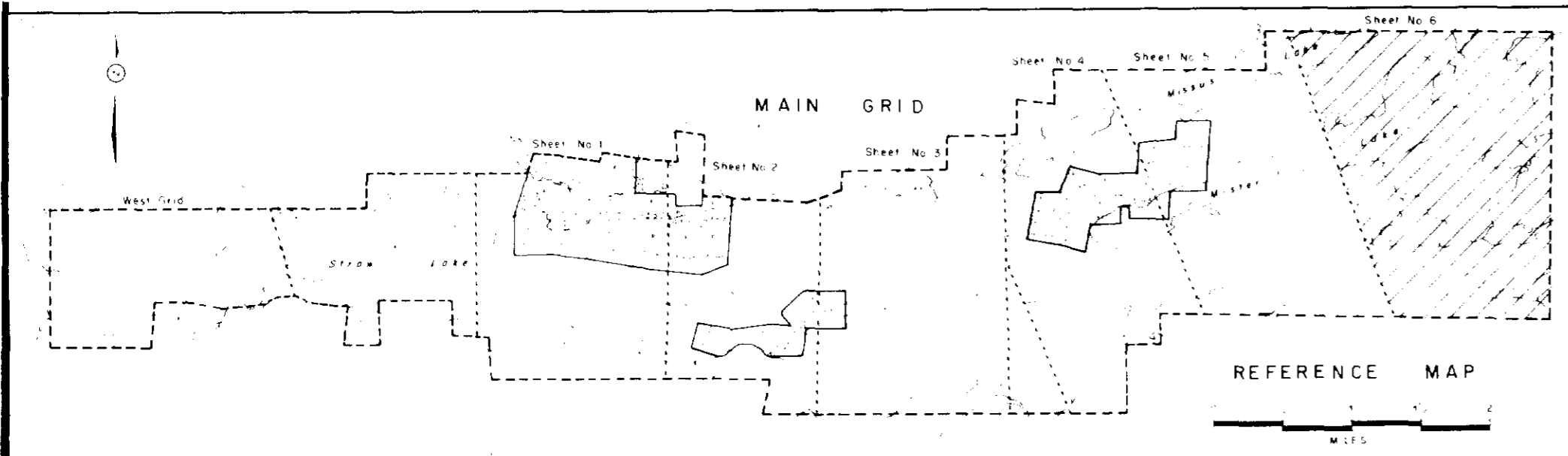
- 7.5 Magnetic values in gammas
- Datum 582000 gammas
- 1000 gamma contours
- 100 gamma contours
- Mag low
- Contour interval - 100 gammas to 1500,
- 500 gammas to 3000

Instrument - Scripps MP-2 Proton mag





290

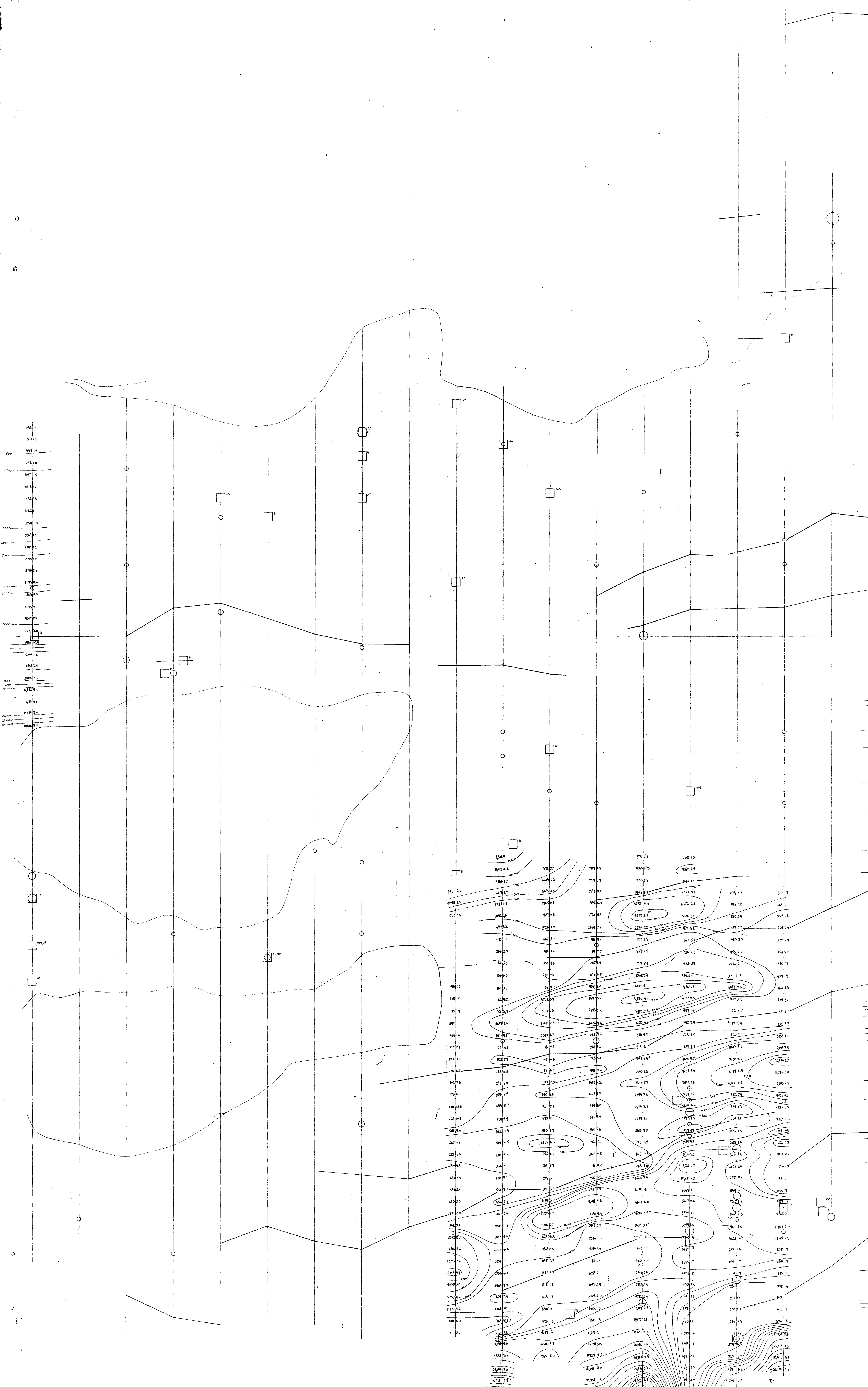


**LEGEND**

- 1/2" Magnetic contours in green
- Datum 1985 datum
- 1000 gamma contours
- 100 gamma contours
- Mag line
- Contour interval - 100 gamma to 1500, 500 gamma to 5000
- Instrument - Scintex MP-2 Proton mag.

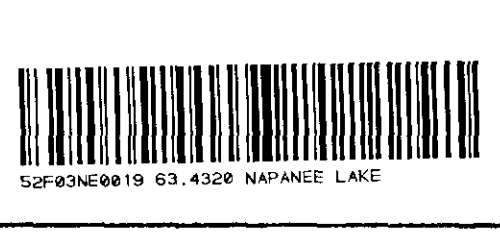


10E 11E 12E 13E 14E 15E 16E 17E 18E 19E 20E 21E 22E 23E 24E 25E 26E 27E



HUMUS (Gold) ppb	SOIL (Gold) ppb
65+	131-200
61-64	121-130
56-60	111-120
51-55	101-110
46-50	91-100
41-45	81-90
36-40	71-80
31-35	61-70
26-30	51-60
21-25	41-50
16-20	31-40
10-15	20-30

V.L.F.  
 Conductor Axis (assumed)





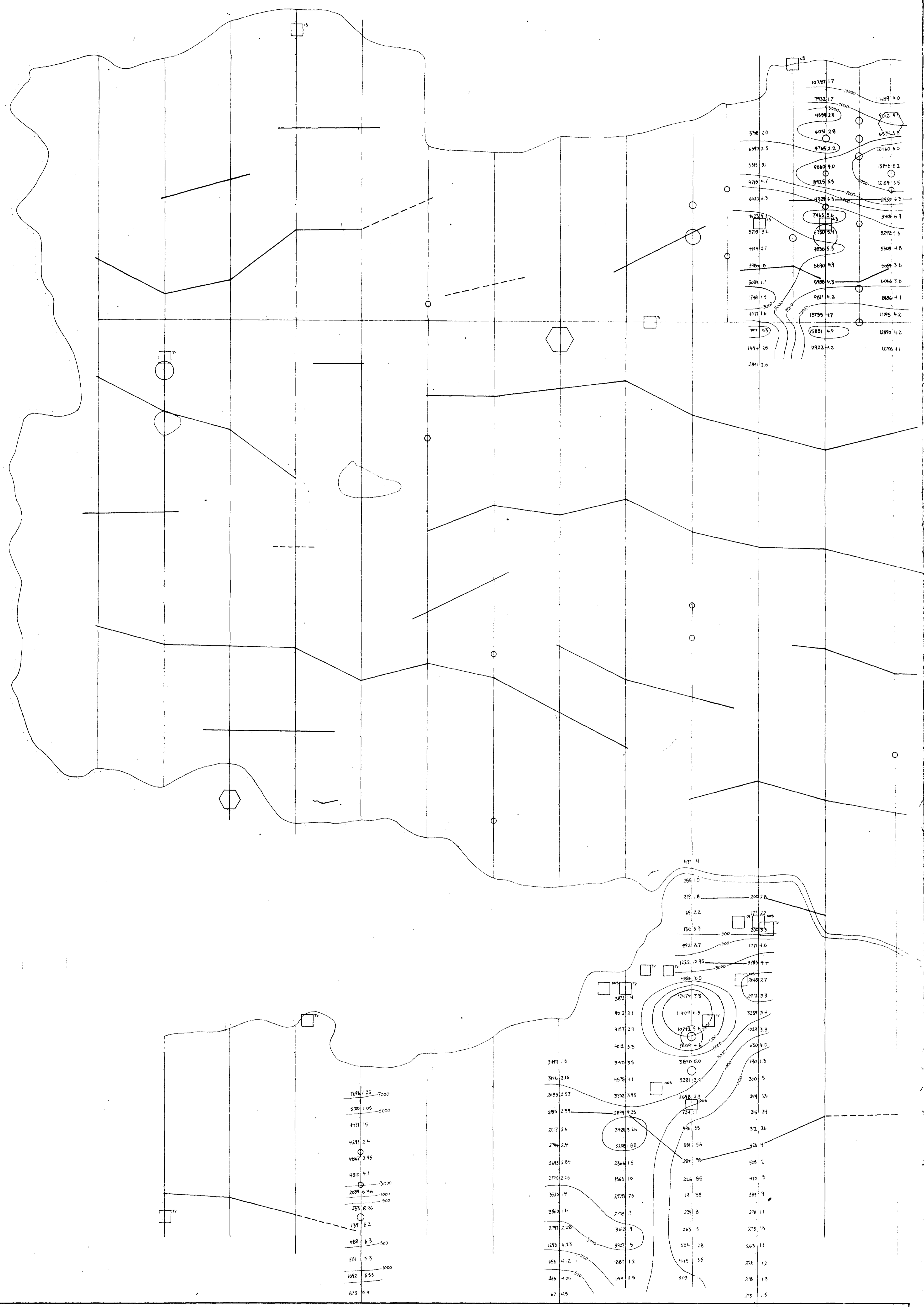
Humus (Gold) ppb	Soil (Gold) ppb
65+	131-200
61-64	121-130
56-60	111-120
51-55	101-110
46-50	91-100
41-45	81-90
36-40	71-80
31-35	61-70
26-30	51-60
21-25	41-50
16-20	31-40
10-15	20-30

VLF  
  
 Conductor Axis (assumed)



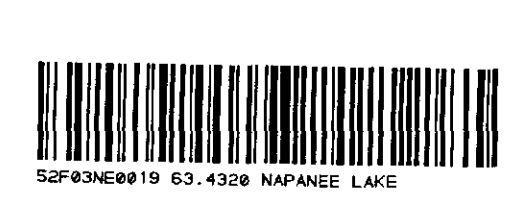


26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W



Humus (Gold) ppb	Soil (Gold) ppb
65+	131-200
61-64	121-130
56-60	111-120
51-55	101-110
46-50	91-100
41-45	81-90
36-40	71-80
31-35	61-70
26-30	51-60
21-25	41-50
16-20	31-40
10-15	20-30

VLF  
Conductor Axis (assumed)

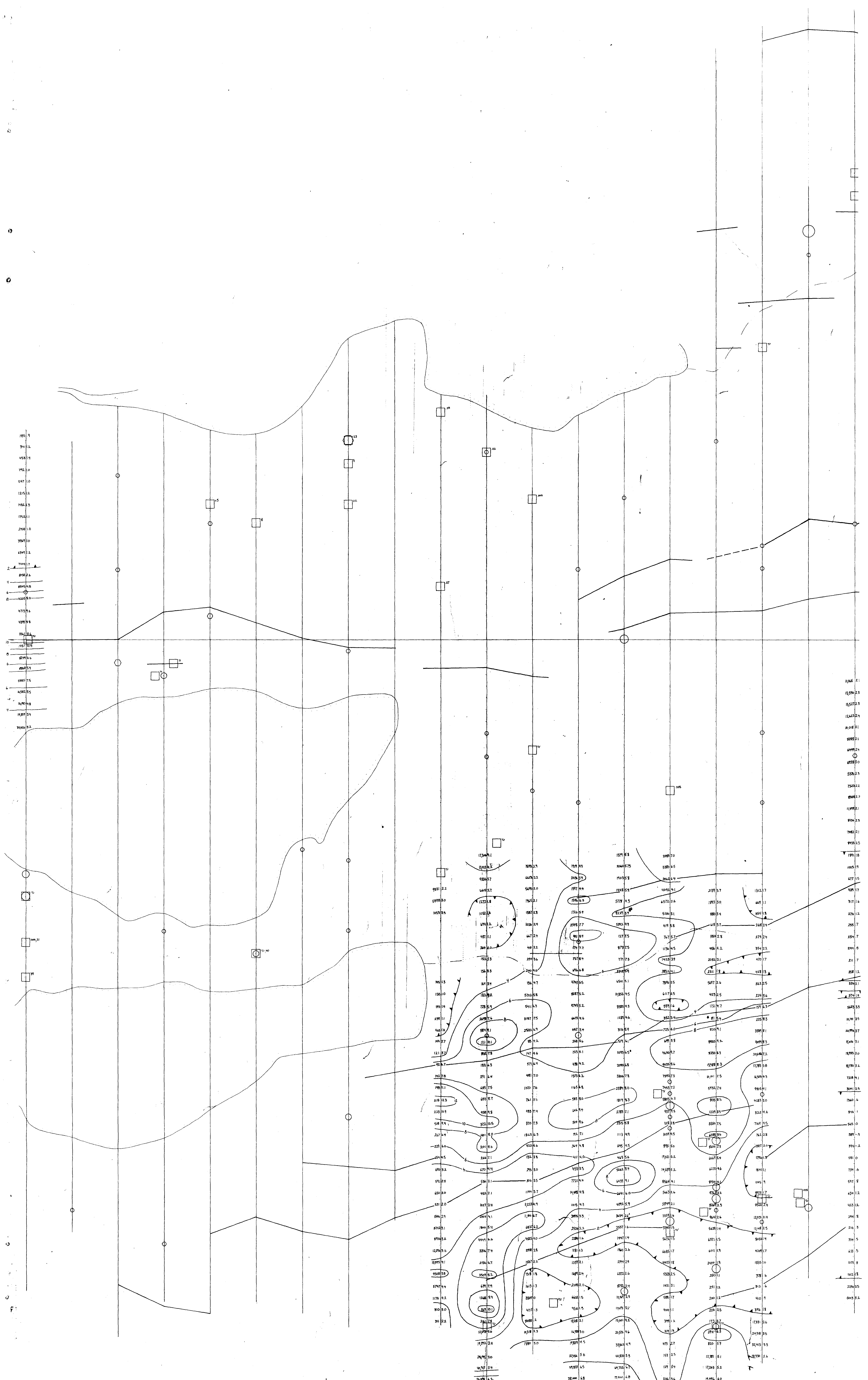


320

N

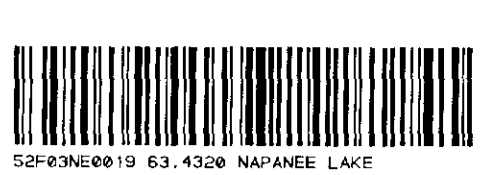
SPARTON RESOURCES INC.	
Filtered Resistivity / Frequency Effect Plan	
WEST SHEET	
Scale 1: 2500	#63.4320

10E 11E 12E 13E 14E 15E 16E 17E 18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E



HUMUS (Gold) ppb	SOIL (Gold) ppb
65+	131-200
61-64	121-130
56-60	111-120
51-55	101-110
46-50	91-100
41-45	81-90
36-40	71-80
31-35	61-70
26-30	51-60
21-25	41-50
16-20	31-40
10-15	20-30

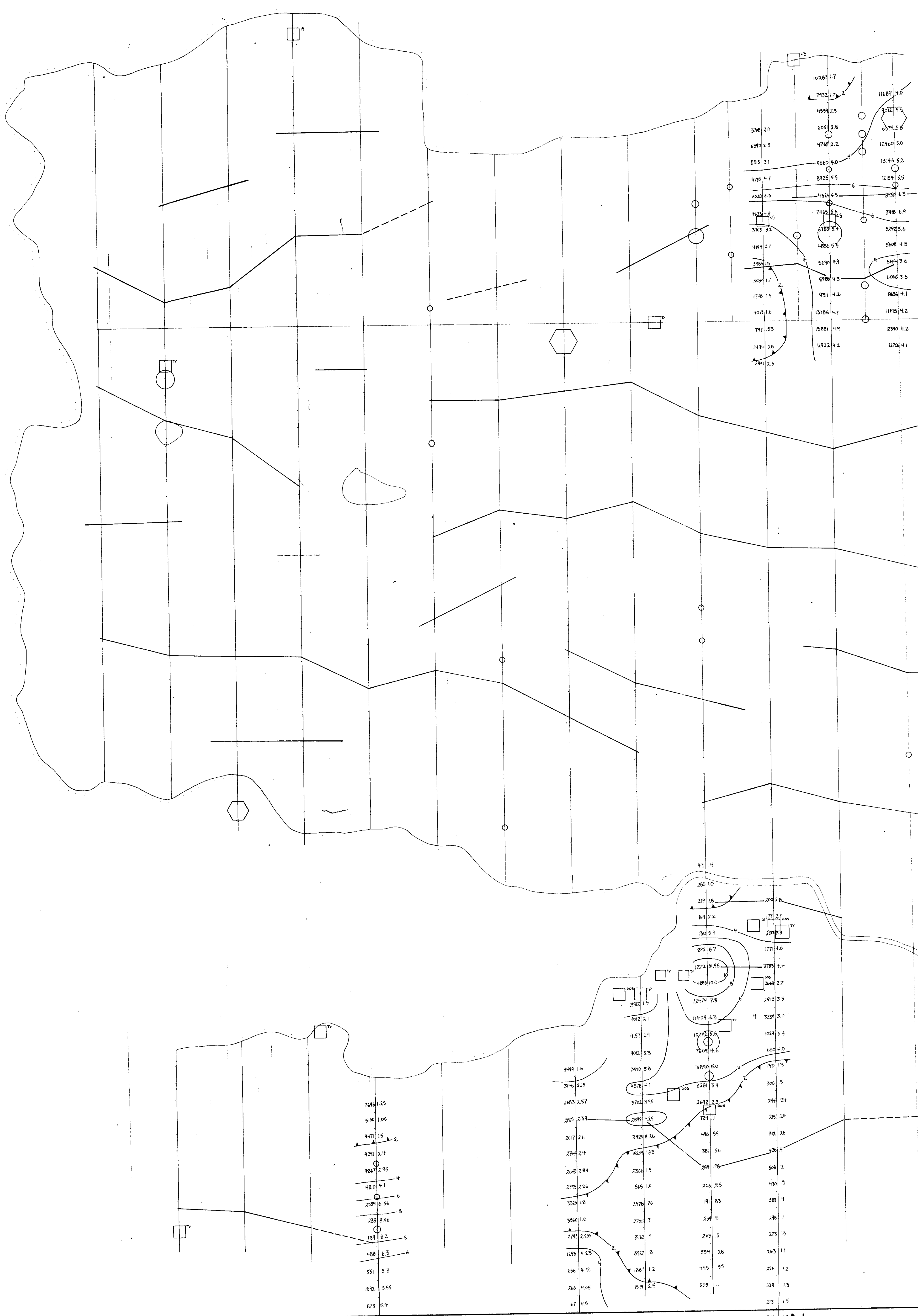
V.L.F.  
 Conductor Axis (assumed)





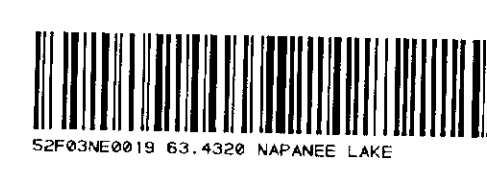


26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W



Humus (Gold) ppb	Soil (Gold) ppb
65+	131-200
61-64	121-130
56-60	111-120
51-55	101-110
46-50	91-100
41-45	81-90
36-40	71-80
31-35	61-70
26-30	51-60
21-25	41-50
16-20	31-40
10-15	20-30

VLF  
Conductor Axis (assumed)



350

SPARTON RESOURCES INC.  
Filtered Resistivity / Frequency Effect Plan  
WEST SHEET  
Scale 1:2500 #63.4320



L-26W L-24W L-22W L-20W L-18W L-16W L-14W L-12W L-10W

L-26W L-25W L-24W L-23W L-22W L-21W L-20W L-19W L-18W L-17W L-16W L-15W L-14W L-13W L-12W L-11W L-10W L-9W



**LEGEND**

- 6 GRANITES  
A) Granite, B) Rhyolite, C) Gneiss/diorite
- 5 FELDSPAR PORPHYRY  
A) Massive, B) Porphyritic, C) Quartz
- 4 METASEDIMENTS  
A) Volcanic (Tuffaceous), B) Arkosic, C) Siltstone/Argillite, D) Chert
- 3 FELSIC VOLCANICS  
A) Crystal Tuff, B) Tuff, C) Lapilli Tuff, D) Agglomerate, E) Stratic Substrata
- 2 INTERMEDIATE VOLCANICS  
A) Crystal Tuff, B) Tuff, C) Lapilli Tuff
- 1 MAFIC VOLCANICS  
A) Tuff, B) Lapilli Tuff, C) Flow

**SYMBOLS**

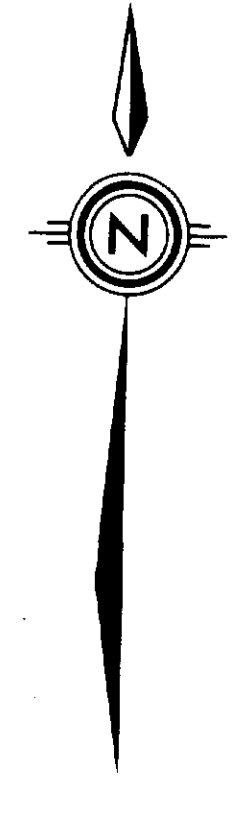
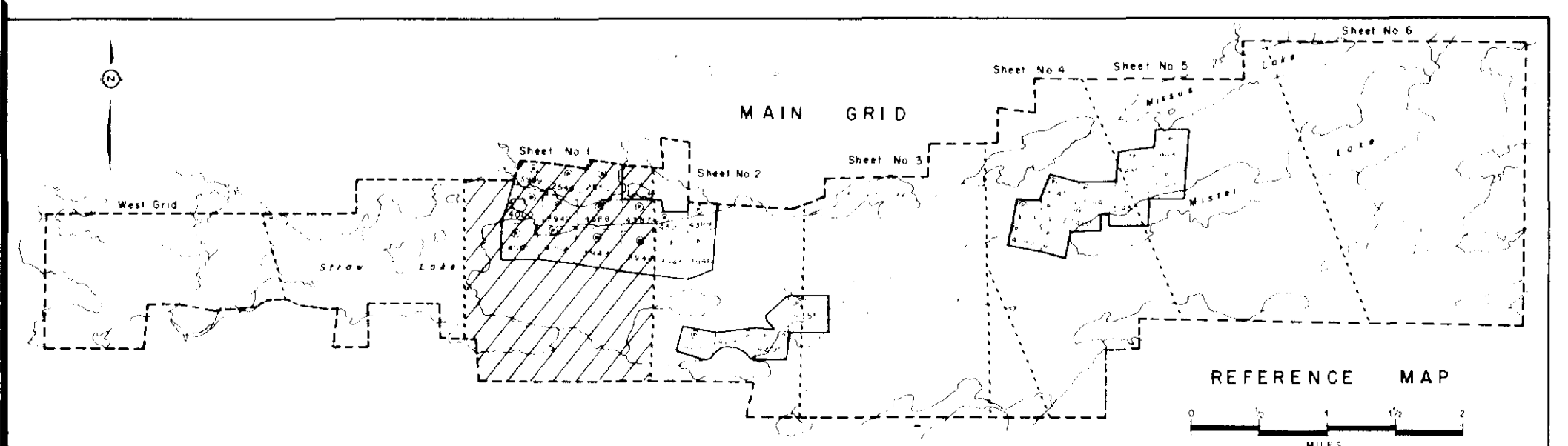
- Geological Contact - defined, assumed
- Outcrop
- Strike and Dip
- Trench or Pit
- Slip
- Buildings
- Claim Posts
- Swamp
- D. Drill Hole (Year, Number)

**STRUCTURE AND ALTERATION**

- a) Foliated
- b) Massive
- c) Siliceous
- d) Quartz Eye
- e) Quartz Stringers/Veining
- f) Sericite
- g) Chlorite
- h) Carbonate
- i) Carbonate Stringers/Veining
- j) Disseminated Sulfides
- k) Sulfide Stringers
- l) Hematite
- m) Magnetite
- n) Fuchsite
- o) Limonite (intercalated)
- p) Crossbedding
- q) Lithological Taps
- r) Interbedded/interbedded
- s) Lapilli-size Fragments
- t) Bonded
- u) Brecciated
- v) Schist



360

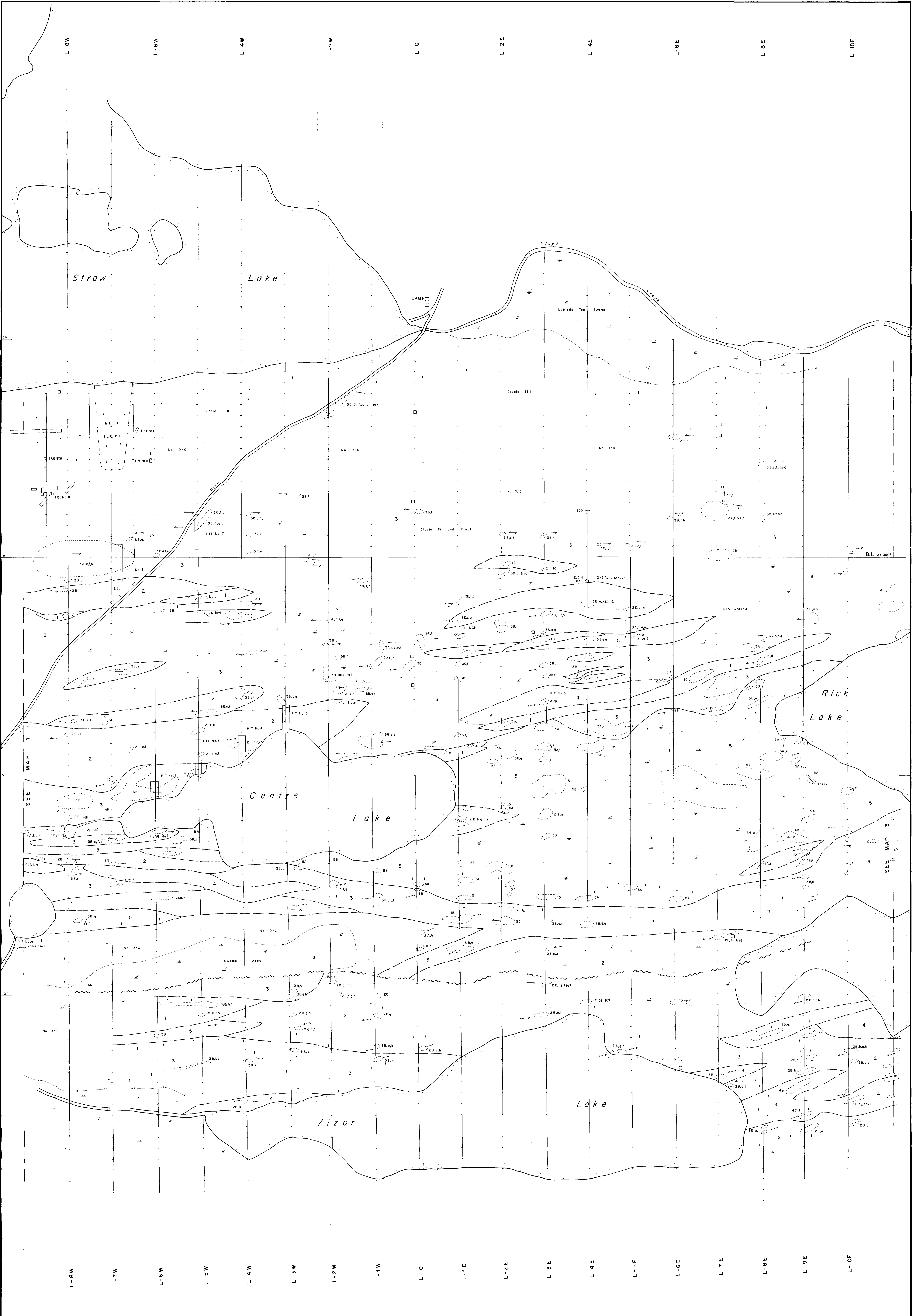


#63 4320

**SPARTON RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 1**

**GEOLOGICAL MAP**

SCALE: 1:2500 N.T.S.: 52 F/3 DATE: DEC, 1983

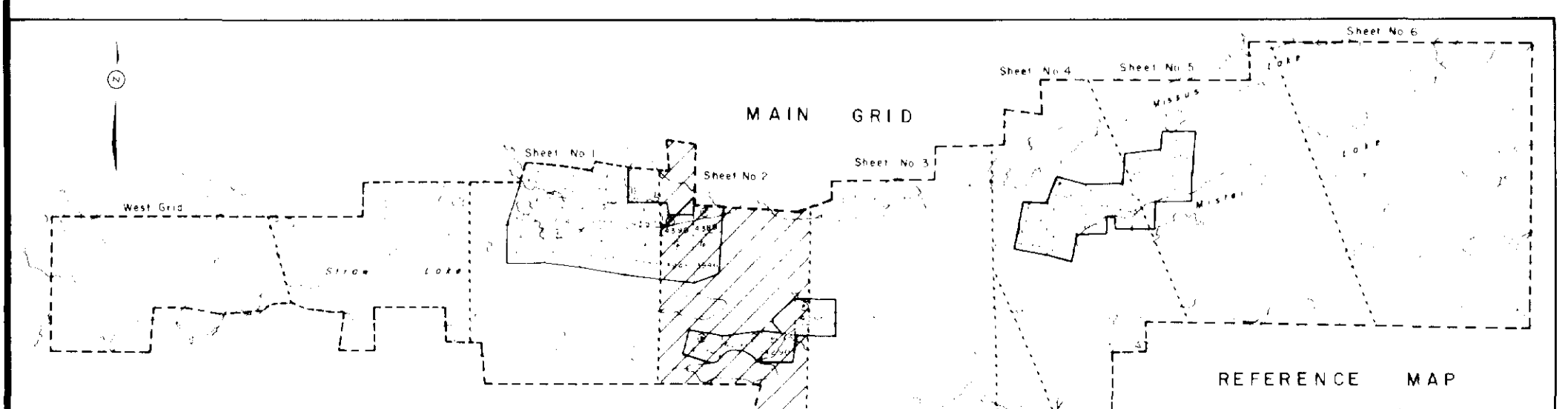


**LEGEND**

- 6 GRANITES: A) Diorite, B) Rhyolite, C) Gneiss/diorite
  - 5 FELDSPAR PORPHYRY: A) Massive, B) Porphyritic, C) Quartz
  - 4 METASEDIMENTS: A) Siliceous (Tuffaceous), B) Arkosic, C) Siltstone/Argillite, D) Chert
  - 3 FELSIC VOLCANICS: A) Crystal Tuff, B) Tuff, C) Lapilli Tuff, D) Agglomerate, E) Sericite Schists
  - 2 INTERMEDIATE VOLCANICS: A) Crystal Tuff, B) Tuff, C) Lapilli Tuff
  - 1 MAFIC VOLCANICS: A) Tuff, B) Lapilli Tuff, C) Flow
- SYMBOLS**
- Geological Contact - defined, assumed
  - Outcrop
  - Strike and Dip
  - Trench or Pit
  - Slope
  - Building
  - Claim Posts
  - Swamp
  - D. Drill Hole (Year, Number)

**STRUCTURE AND ALTERATION**

- a) Foliated
- b) Massive
- c) Siliceous
- d) Quartz Stringers/Veining
- e) Sericite
- f) Chlorite
- h) Carbonate
- i) Carbonate - Stringers/Veining
- j) Disseminated Sulfides
- k) Sulfide Stringers
- l) Magnetite
- m) Magnetite
- n) Fuchsite
- o) Limonite (intercalated)
- p) Lithological Tuff
- q) Interbedded / interbedded
- r) Lapilli-size Fragments
- s) Banded
- t) Brecciated
- v) Schist



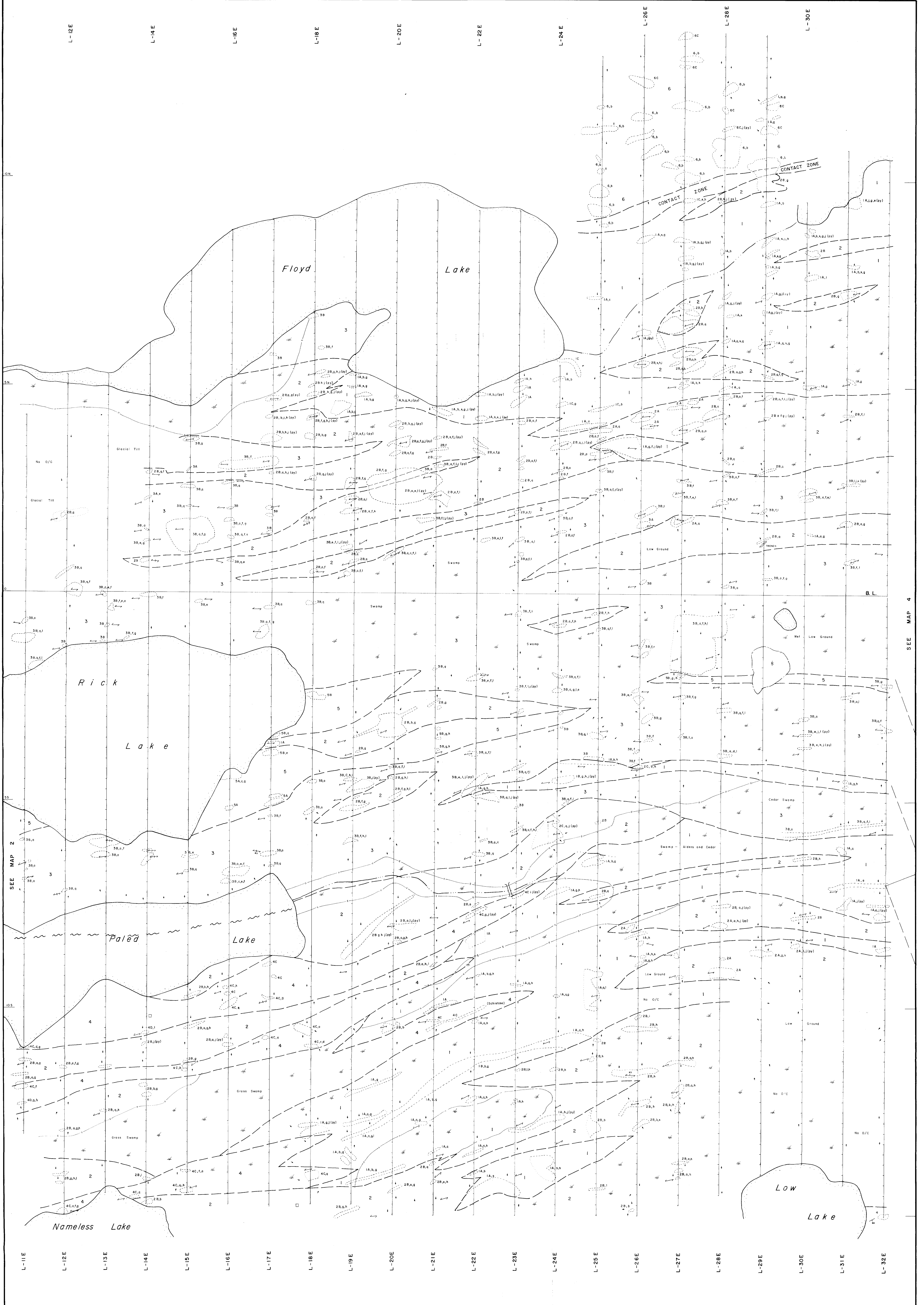
#63 4320

**SPARTON RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 2**

**GEOLOGICAL MAP**

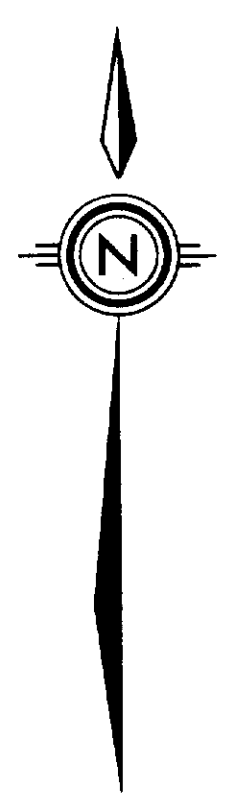
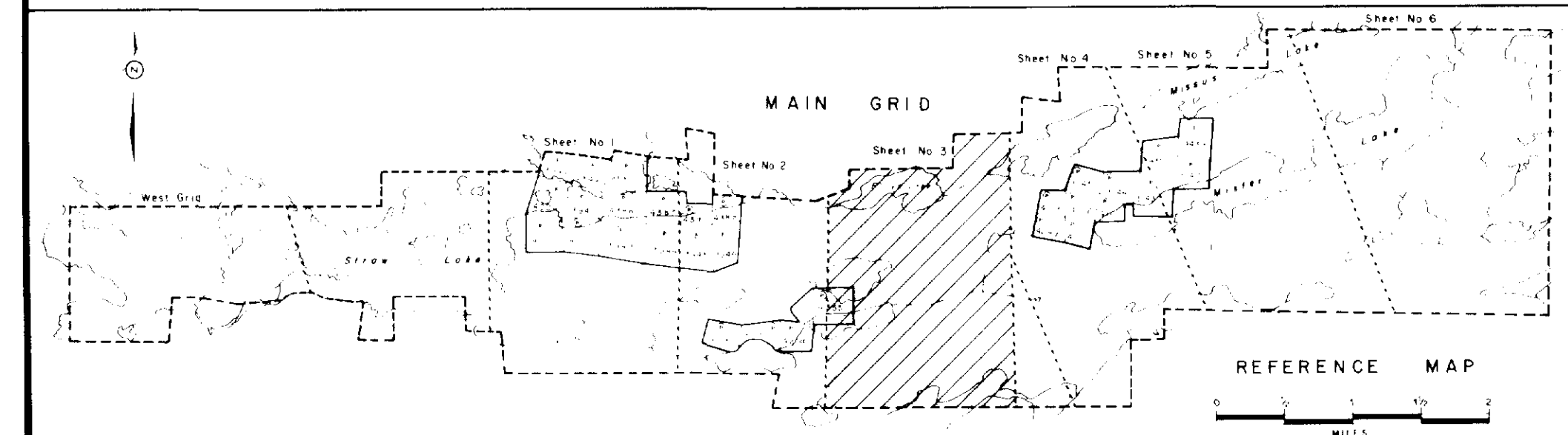
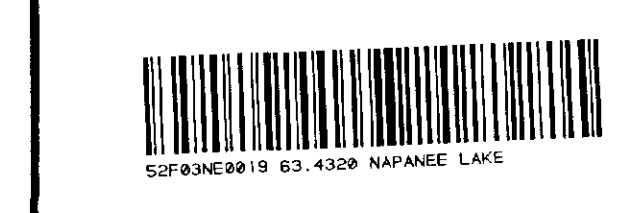
SCALE: 1:2500 N.T.S.: 52/F/3 DATE: DEC., 1993





SEE MAP 2

SEE MAP 4



**LEGEND**

6	GRANITES: A) Diorite, B) Rhyolite, C) Gneiss/diorite		BIOLOGICAL CONTACT - defined, assumed
5	FELSIC PORPHYRY: A) Massive, B) Porphyritic, C) Quartz		Strike and Dip
4	METASEDIMENTS: A) Volcanic (Tuffaceous), B) Arkosic, C) Siltstone/Argillite, D) Chert		Trench or Pit
3	FELSIC VOLCANICS: A) Crystal Tuff, B) Tuff, C) Lapilli Tuff, D) Agglomerate, E) Granite Schists		Slope
2	INTERMEDIATE VOLCANICS: A) Crystal Tuff, B) Tuff, C) Lapilli Tuff		Building
1	MAFIC VOLCANICS: A) Tuff, B) Lapilli Tuff, C) Flow		Clim Post
			Swamp
			Drill Hole (Year, Number)

**STRUCTURE AND ALTERATION**

	Faulted		Hematite
	Massive		Magnetite
	Siliceous		Fuchsite
	Quartz Eye		Limonite (intercalated)
	Quartz Stringers/Veinings		Lithological Top
	Sericite		Interbedded/Interbanded
	Chlorite		Lopolite-size Fragment
	Carbonate		Banded
	Disseminated Sulfides		Brecciated
	Sulfide Stringers		Schist

#63-4320

**SPARTON RESOURCES INC.**

**STRAW LAKE PROJECT**

**MAIN GRID, SHEET NO. 3**

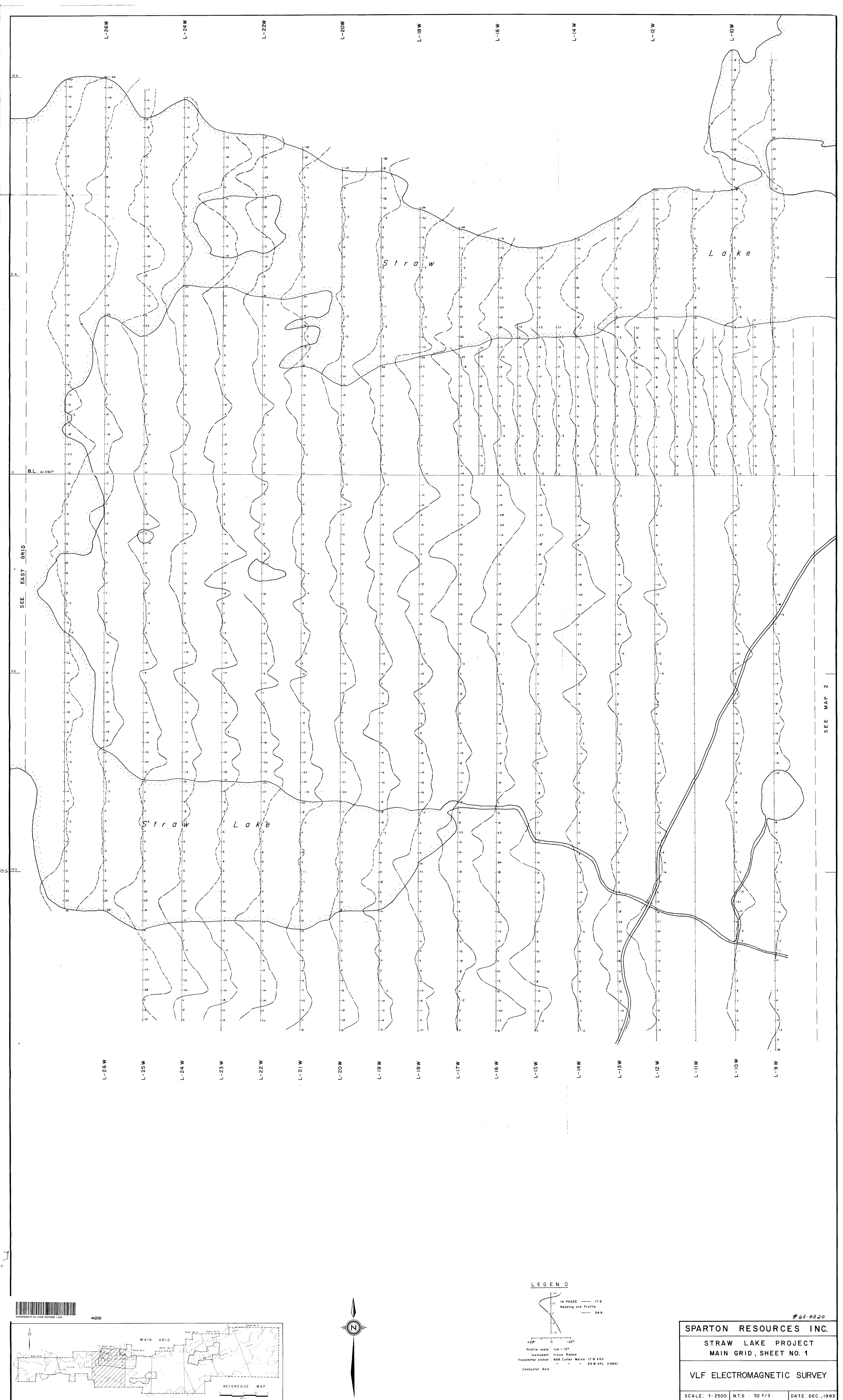
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**GEOLOGICAL MAP**

SCALE: 1:2500    N.T.S.: 52 F/3    DATE: DEC., 1983

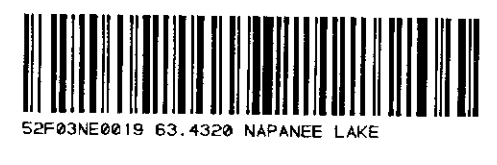




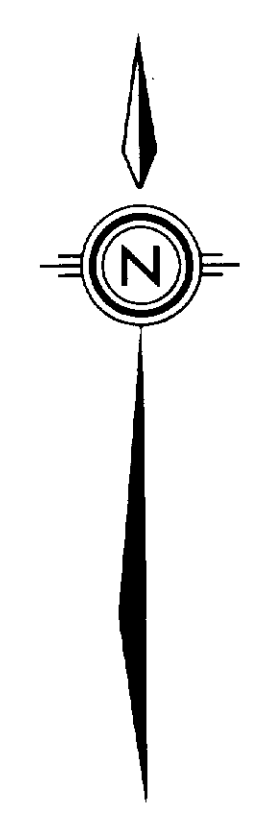
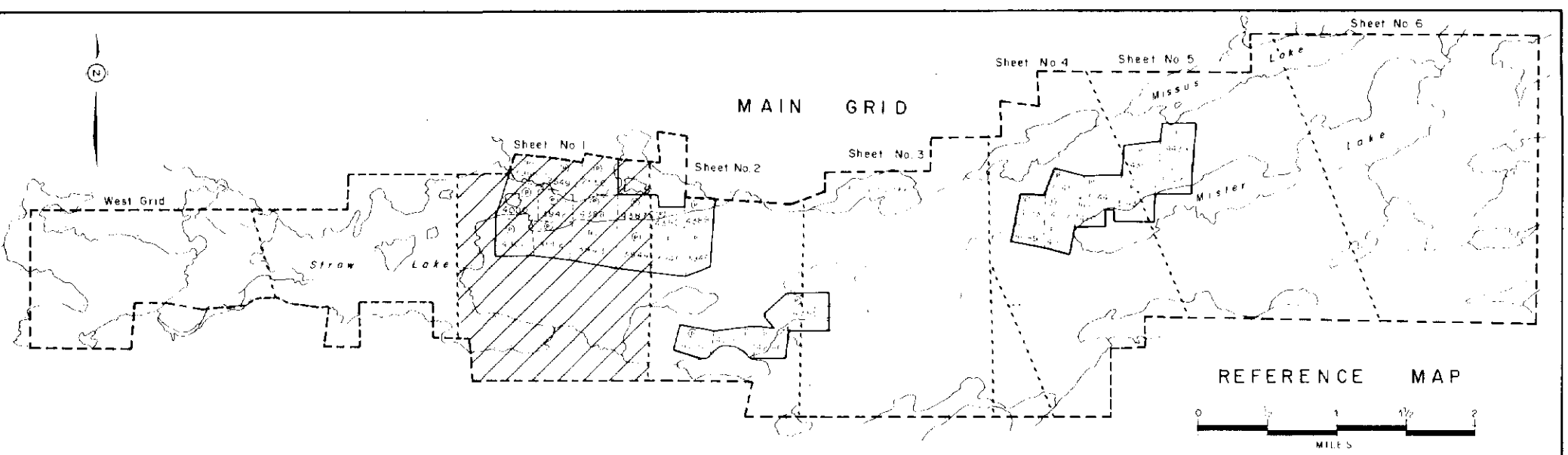


SEE EAST GRID

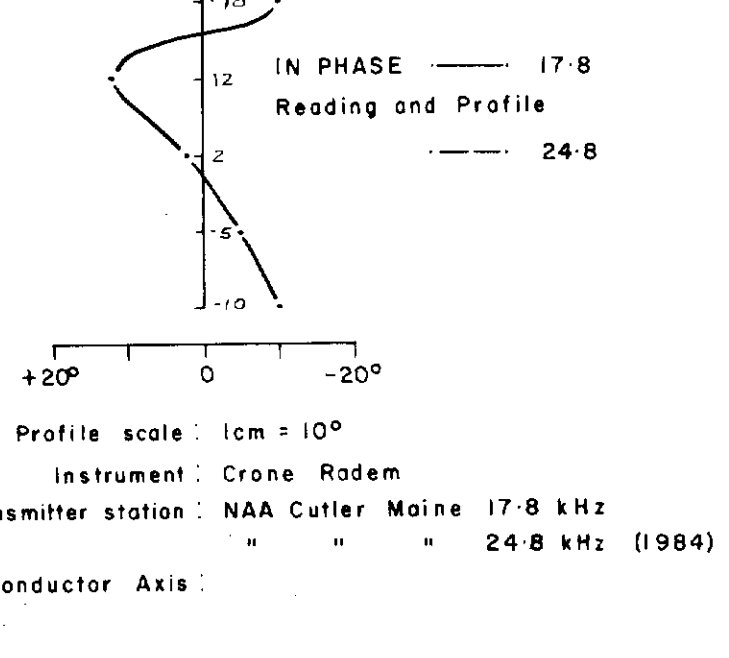
10S



400



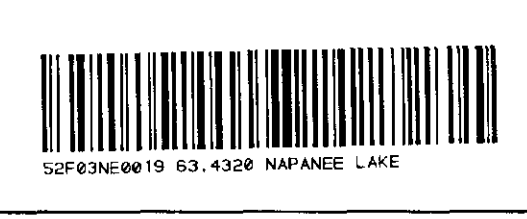
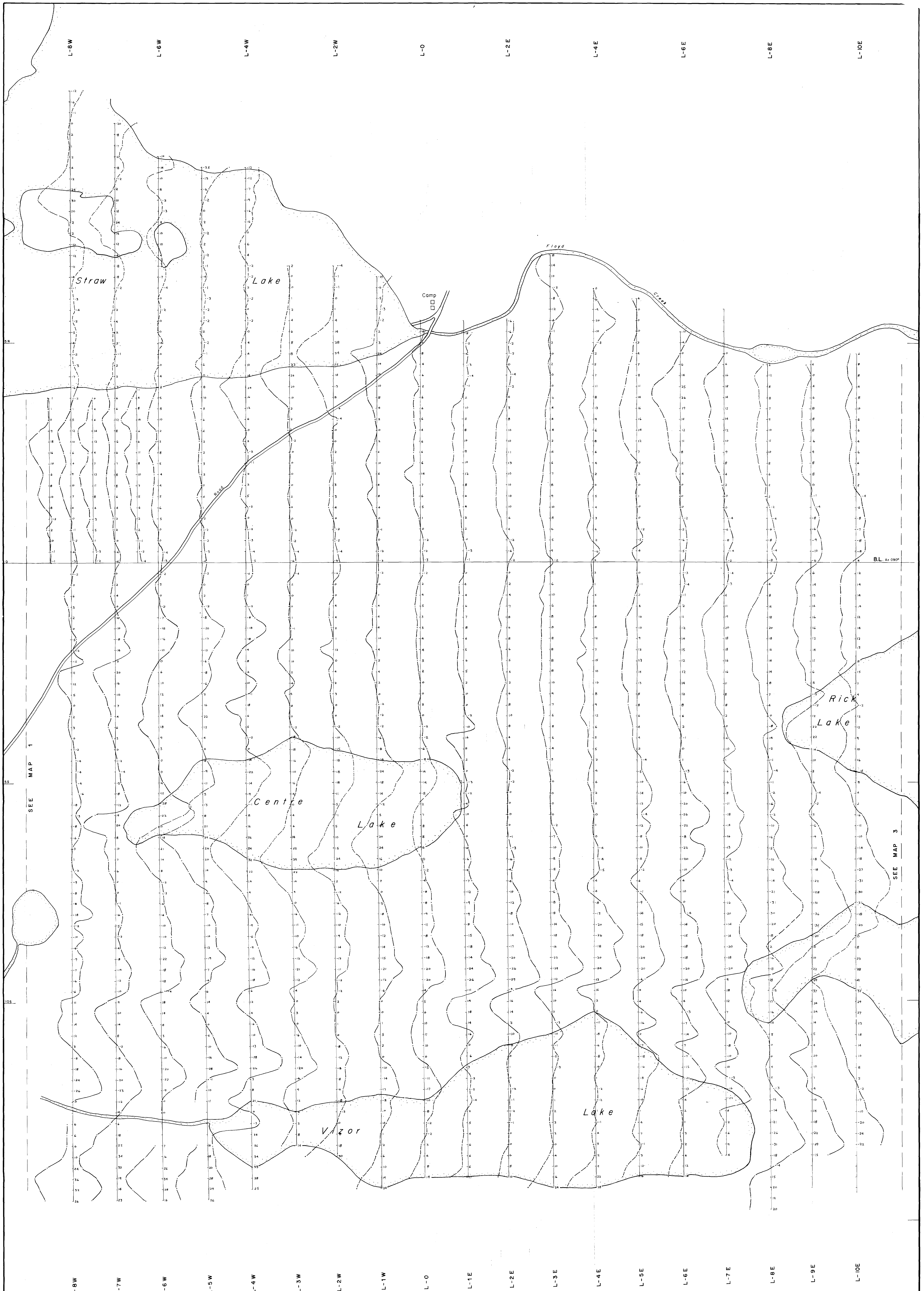
LEGEND



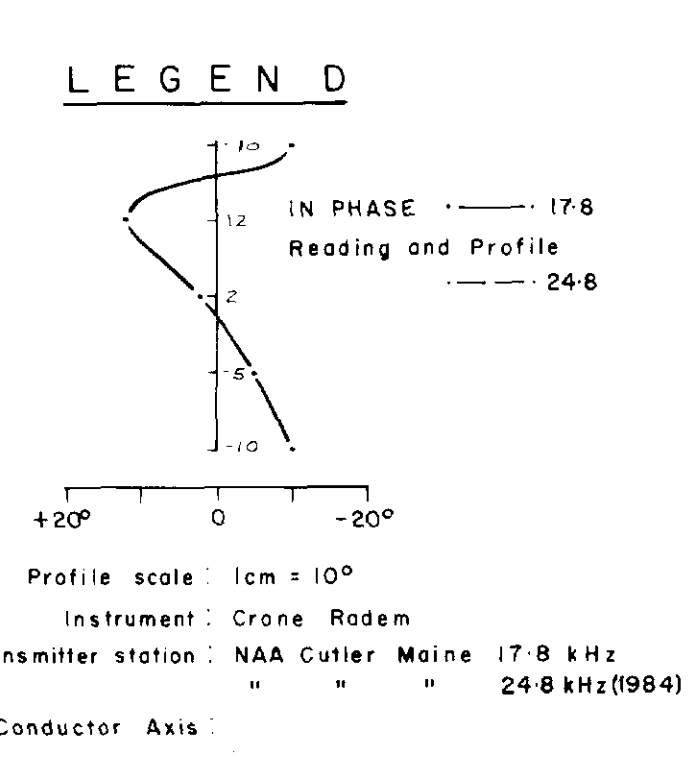
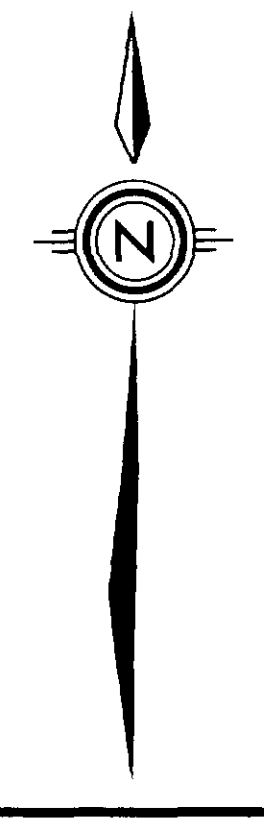
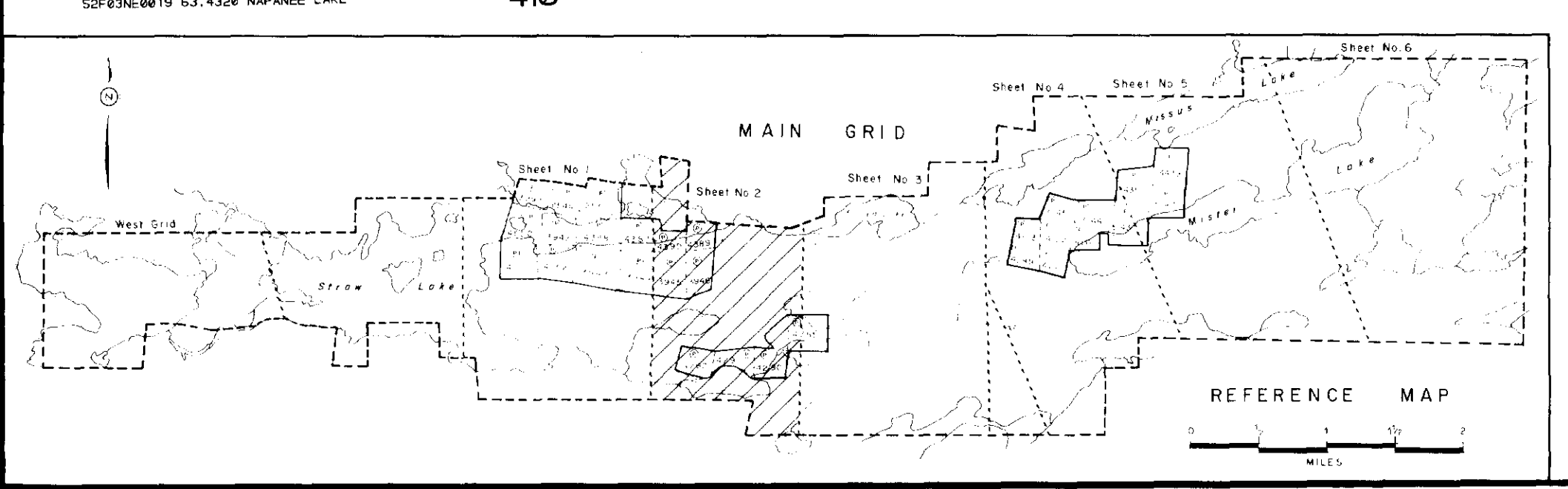
#68-4320  
**SPARTON RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 1**  
**VLF ELECTROMAGNETIC SURVEY**

SCALE: 1:2500 N.T.S.: 52 F/3 DATE: DEC., 1983

SEE MAP 2



410



#63-4320

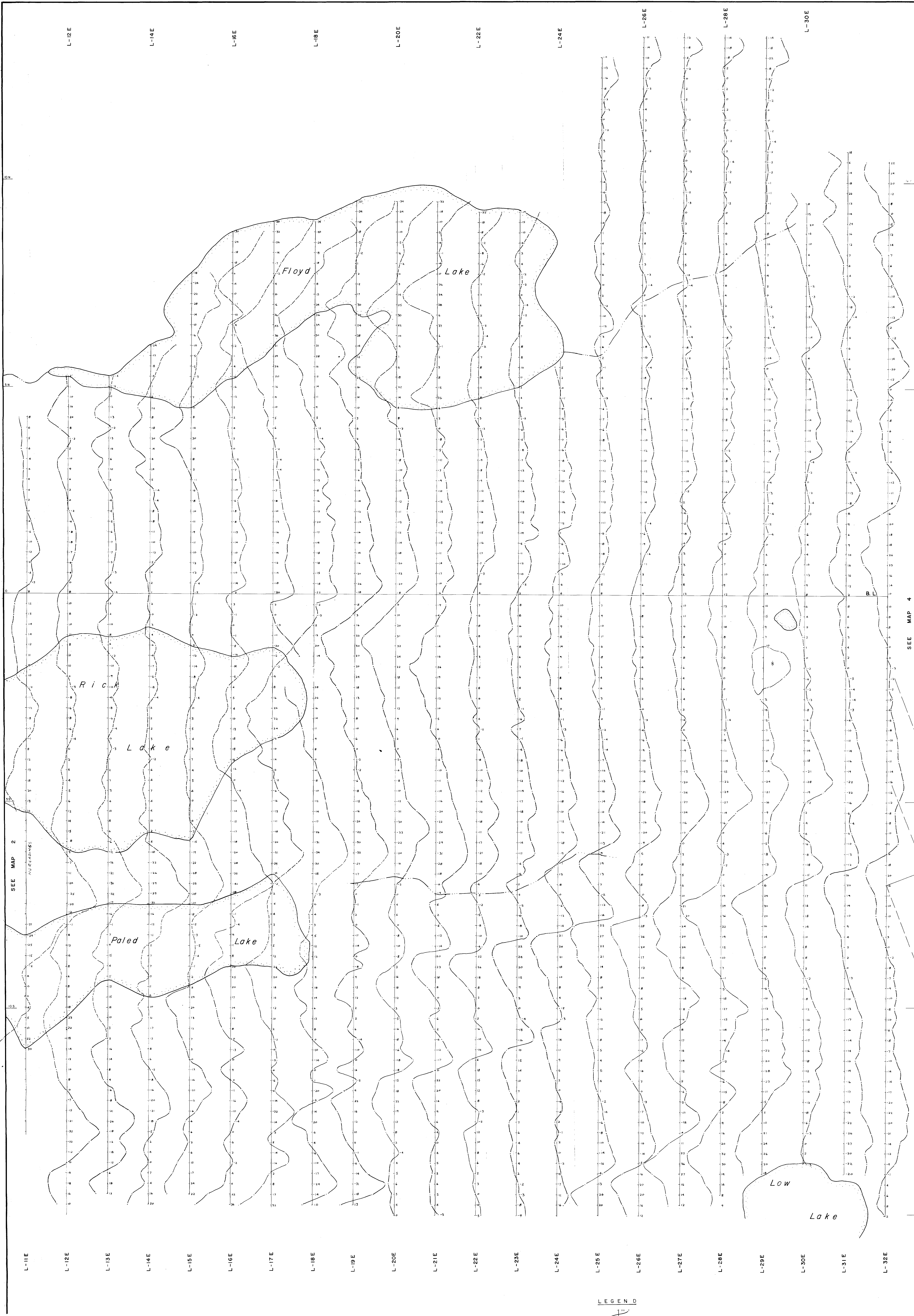
**SPARTON RESOURCES INC.**

**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 2**

**VLF ELECTROMAGNETIC SURVEY**

SCALE: 1:2500 N.T.S. DATE: DEC., 1983



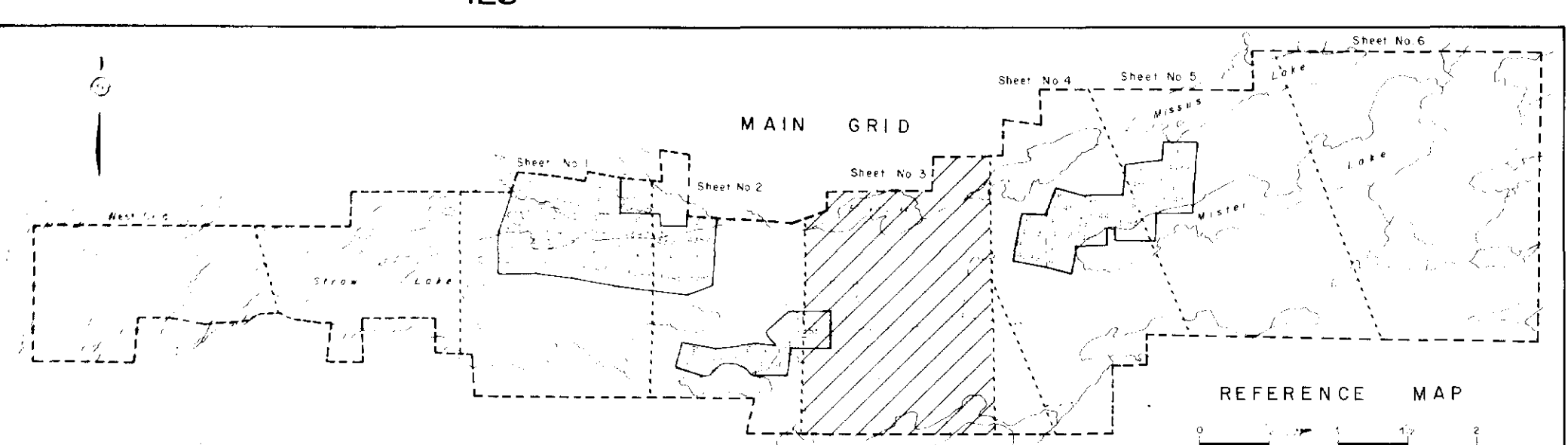


SEE MAP 2

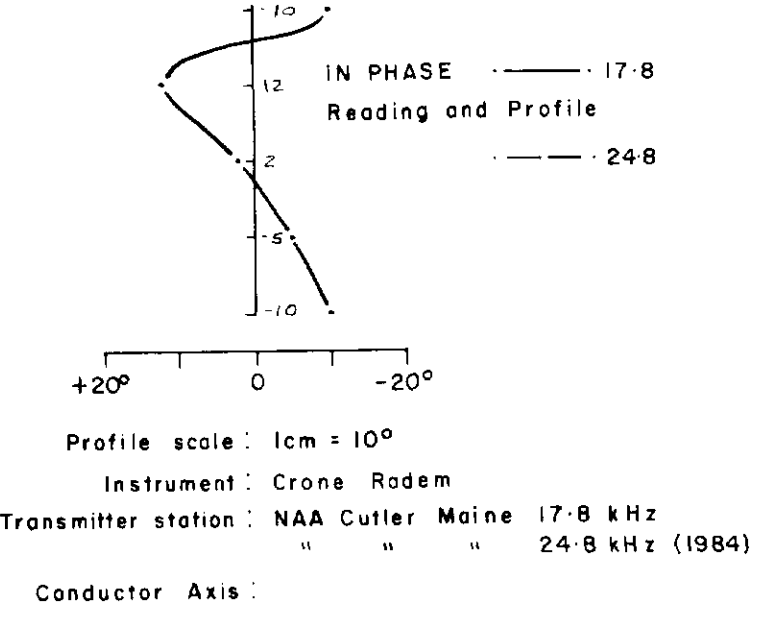
SEE MAP 4



420



**LEGEND**



#63-4320

**SPARTON RESOURCES INC.**

**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 3**

**VLF ELECTROMAGNETIC SURVEY**

SCALE: 1:2500 N.T.S.: 52 F/3 DATE: DEC., 1983

20 N

15 N

10 N

5 N

0

5 S

L-32E

L-38E

L-40E

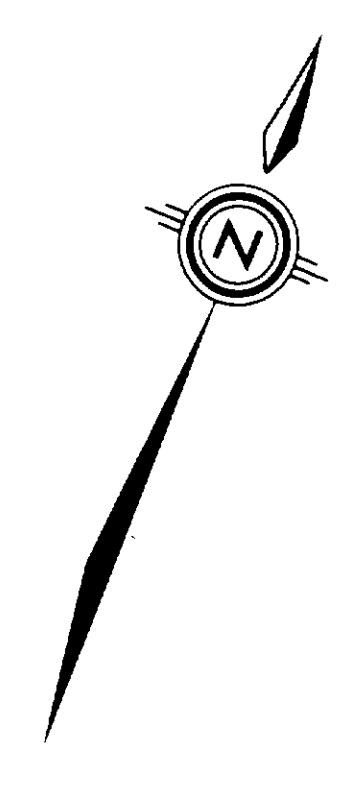
L-42E

L-44E

L-46E

L-48E

L-50E



Lake

No Name Lake

Mistier

Manitou

Stretch

L-33E

L-34E

L-35E

L-36E

L-37E

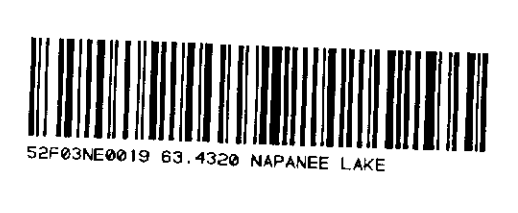
L-38E

L-39E

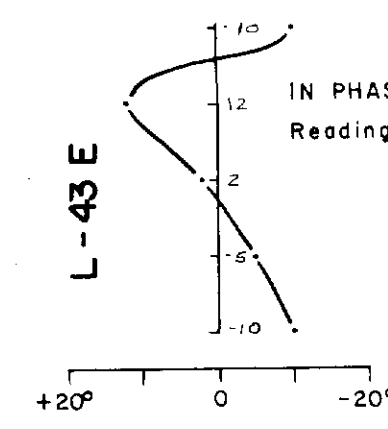
L-40E

L-41E

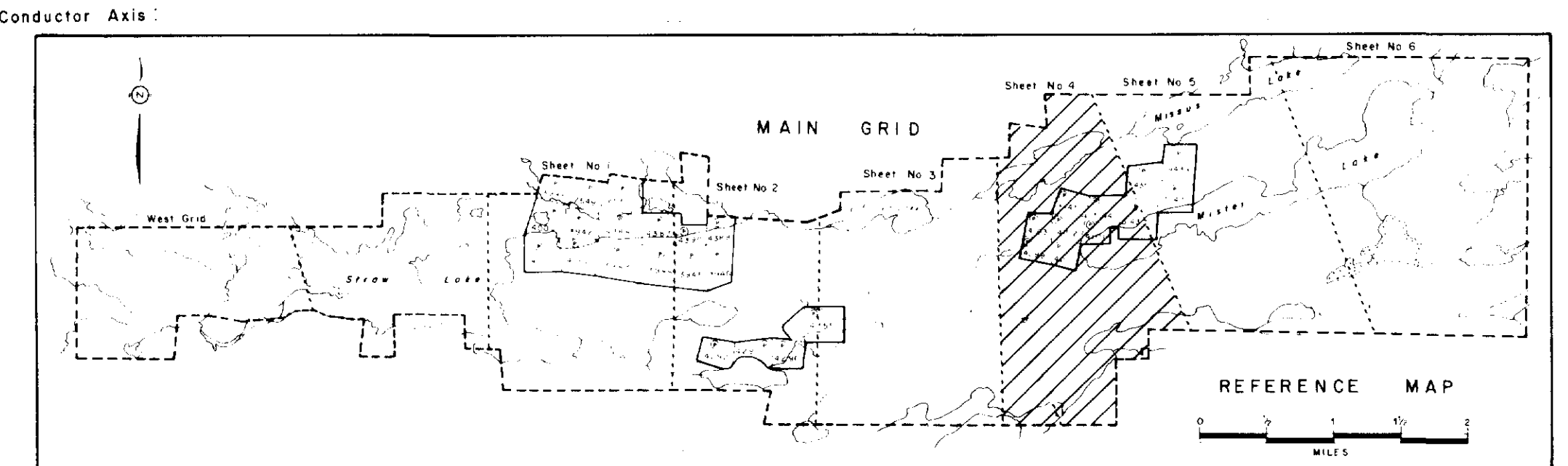
L-42E



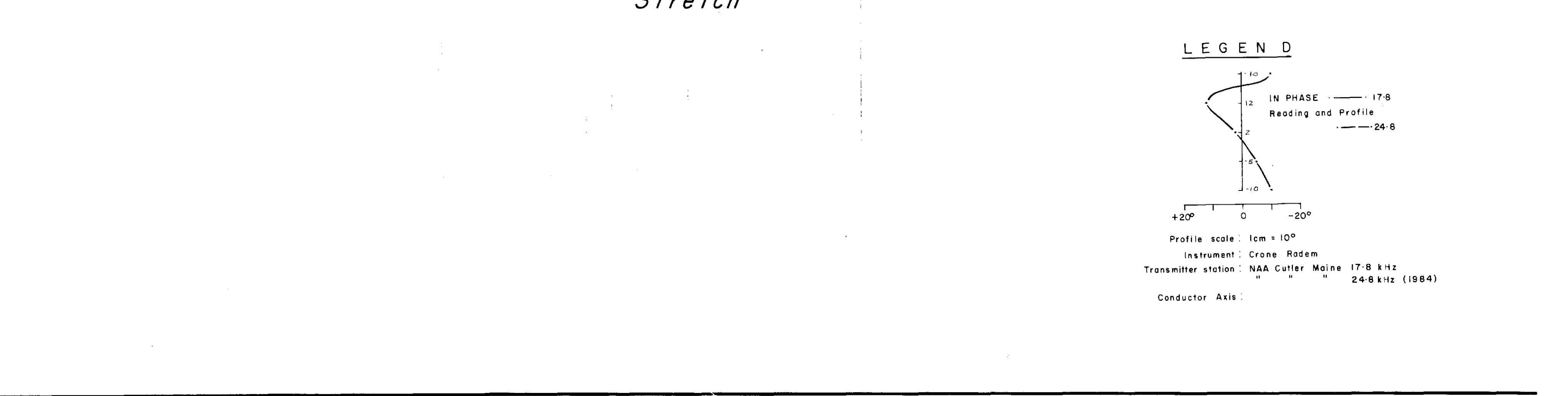
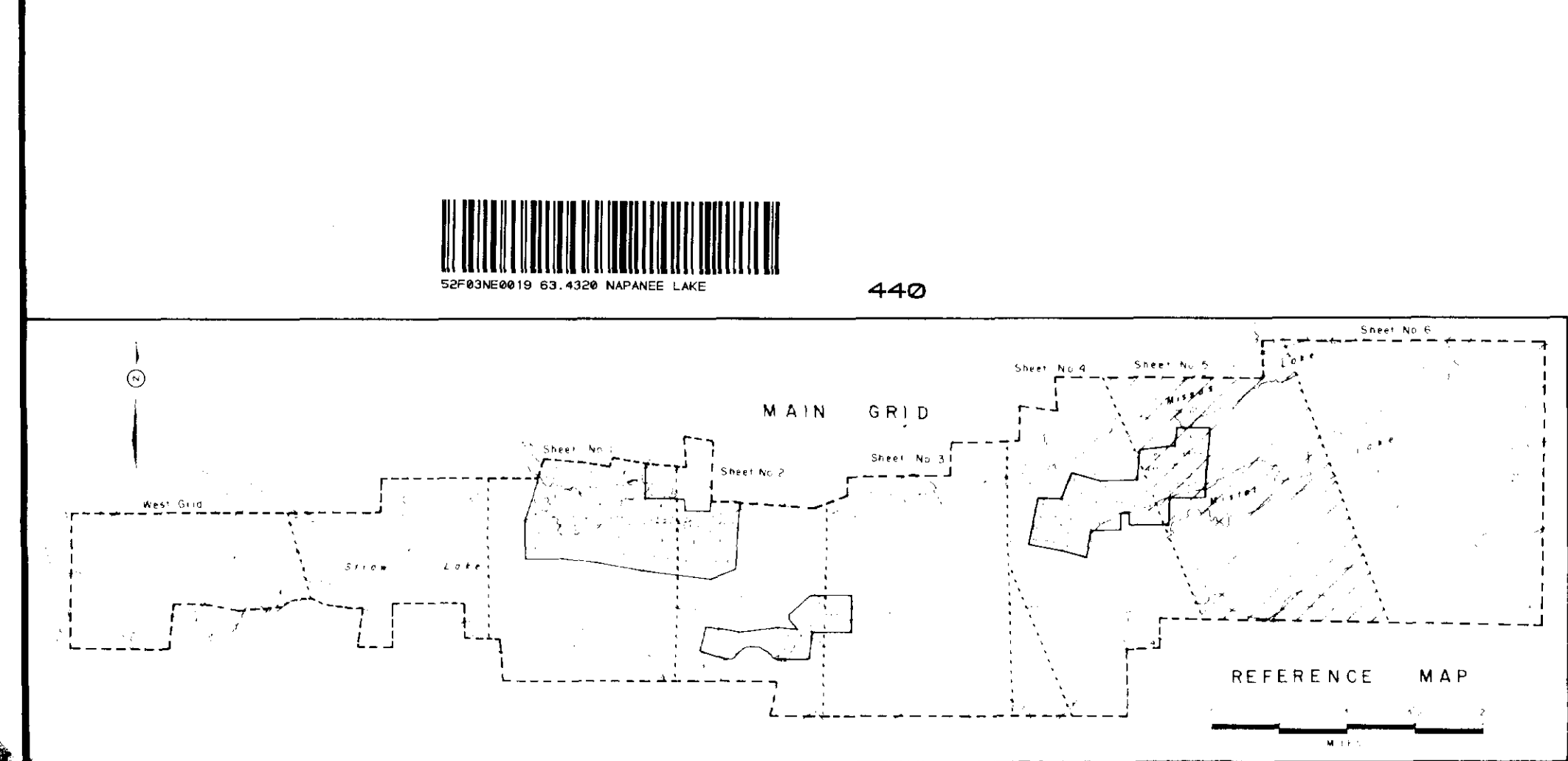
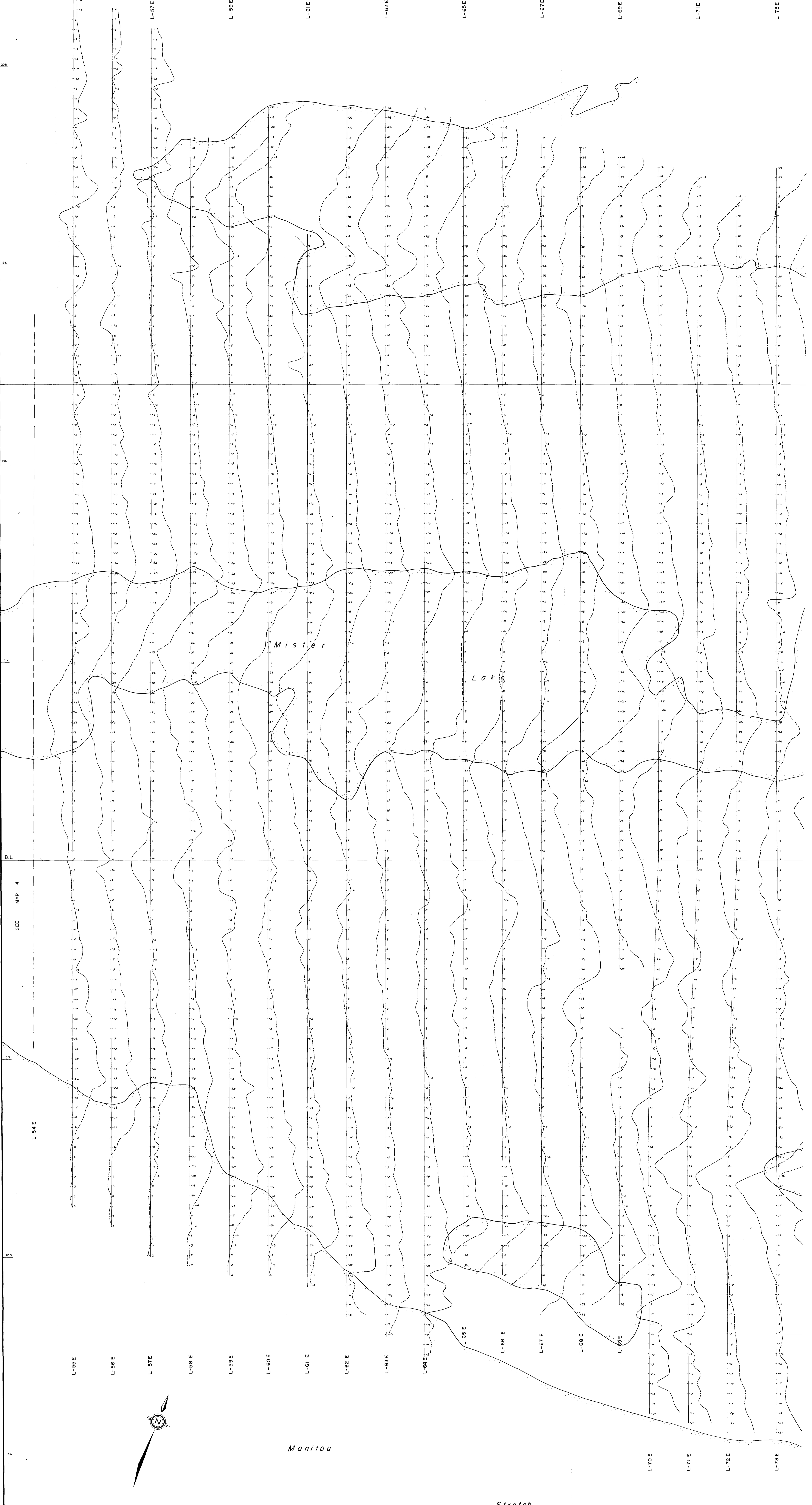
LEGEND



Profile scale: 1cm = 10' Instrument: Crane Road Transmitter station: NAB Coler Maine 17.8 kHz 24.6 kHz (1984) Conductor Axis



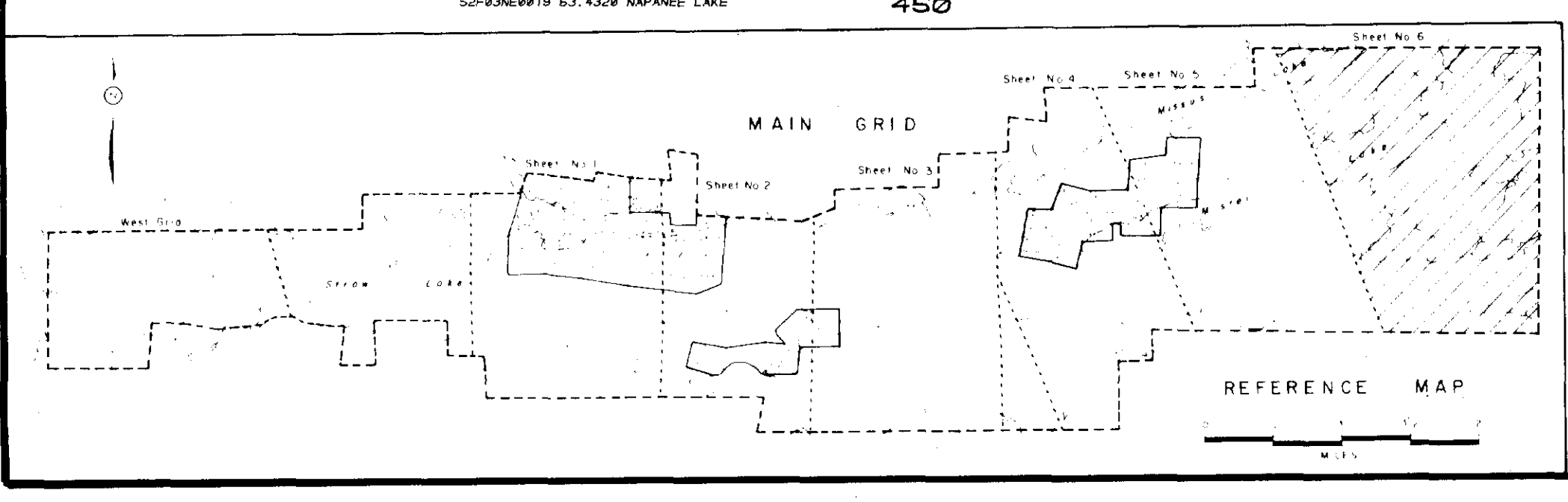








450



LEGEND

IN PHASE 17.8  
 Reading and Profile 24.8  
 Conductor Axis

Profile scale: 1 cm = 100'  
 Instrument: Crown Rodem  
 Transmitter station: NAR Culler Mike 17.8 kHz  
 Conductor Axis: 24.8 kHz (1984)

15N

10N

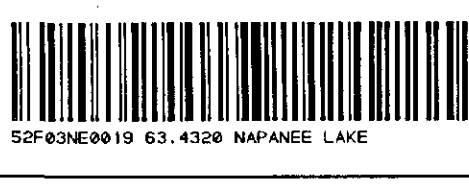
SEE WEST GRID

5N

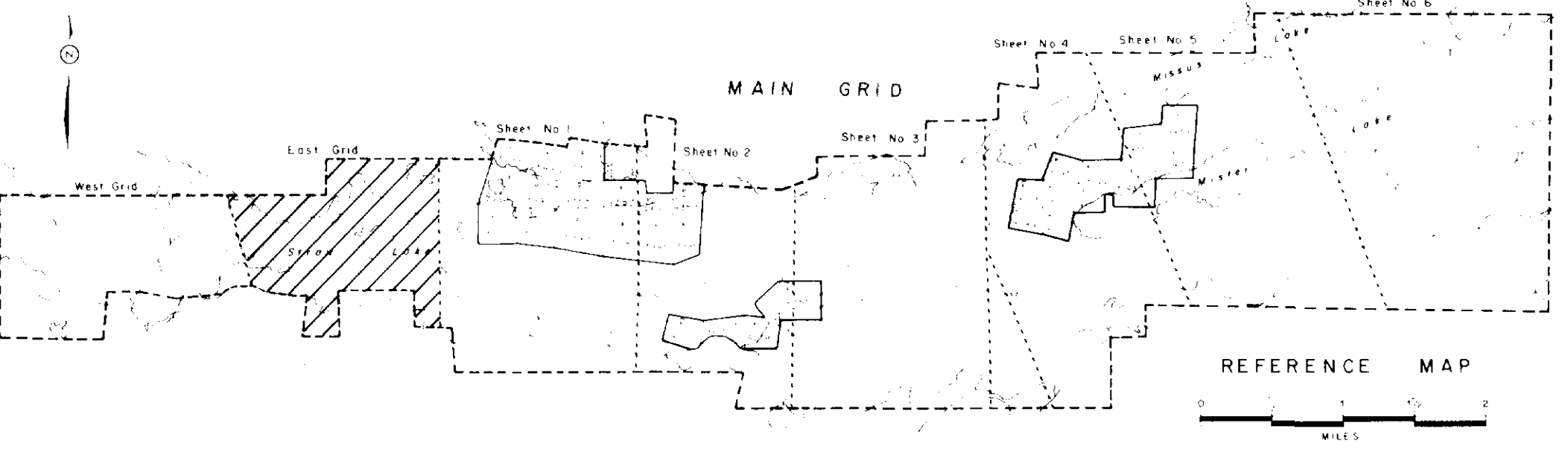
B.L.

55

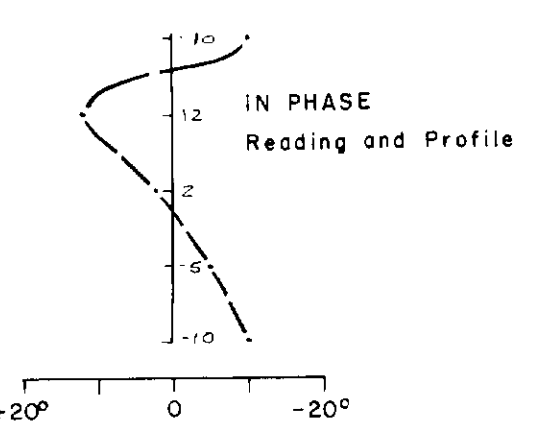
L-52W L-51W L-50W L-49W L-48W L-47W L-46W L-45W L-44W L-43W L-42W L-41W L-40W L-39W L-38W L-37W L-36W L-35W L-34W L-33W L-32W



460

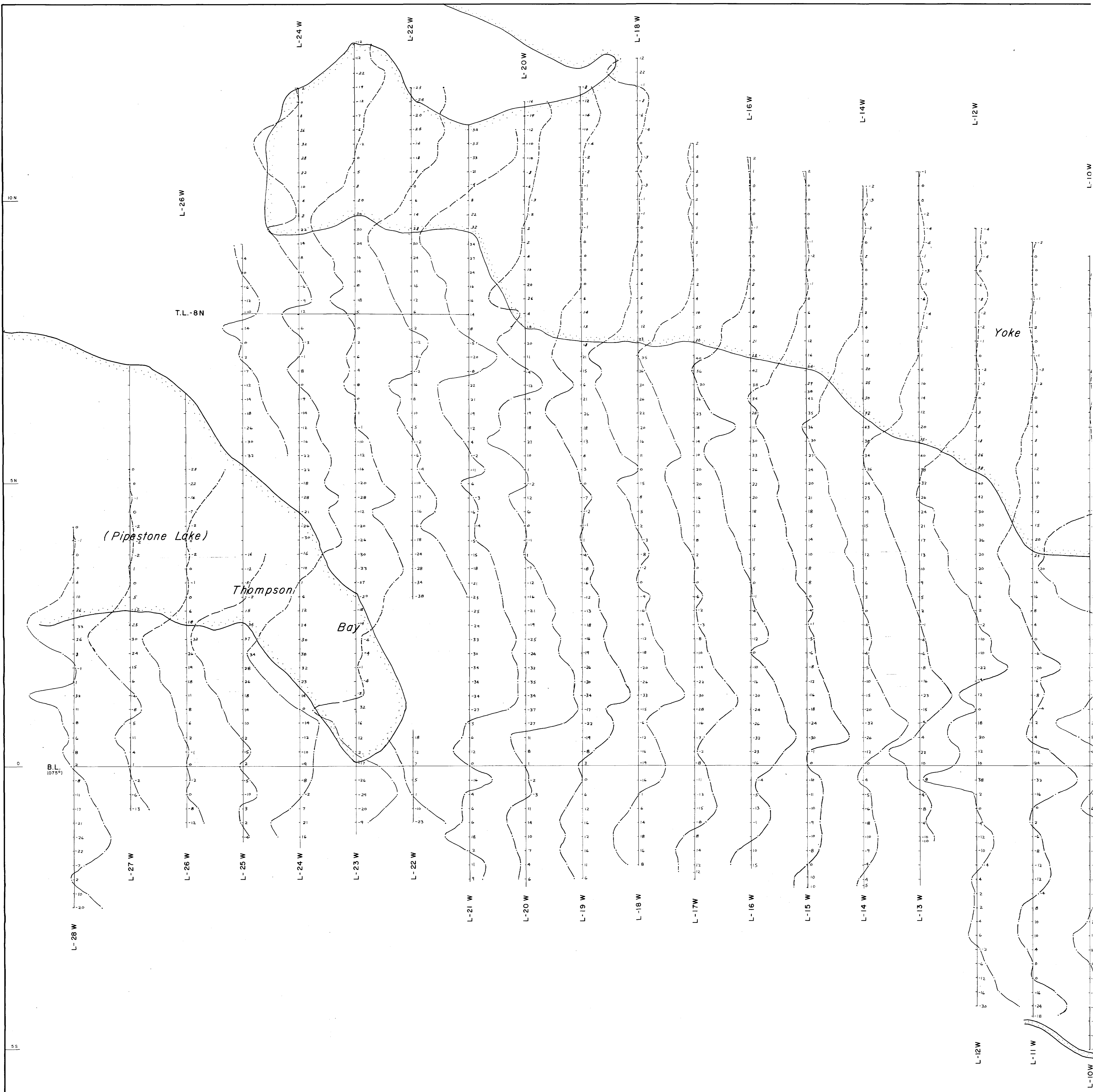


LEGEND



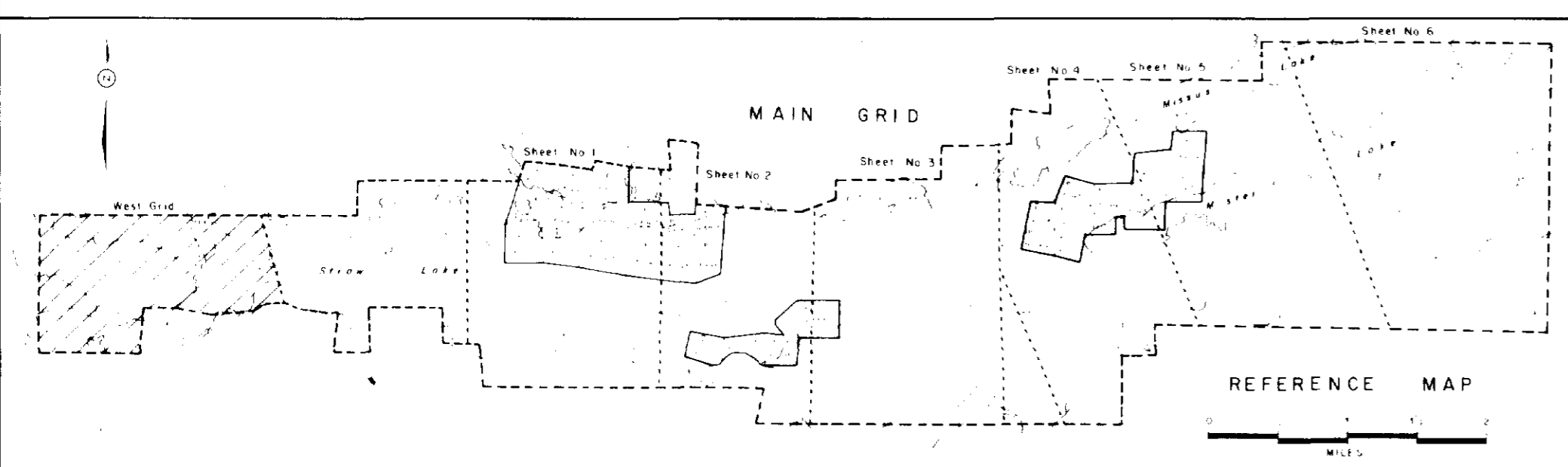
Profile scale: 1cm = 100'  
 Instrument: Crane Rodem  
 Transmitter station: NAA Cutler Maine 24.9 kHz (1984)  
 Conductor Axis:

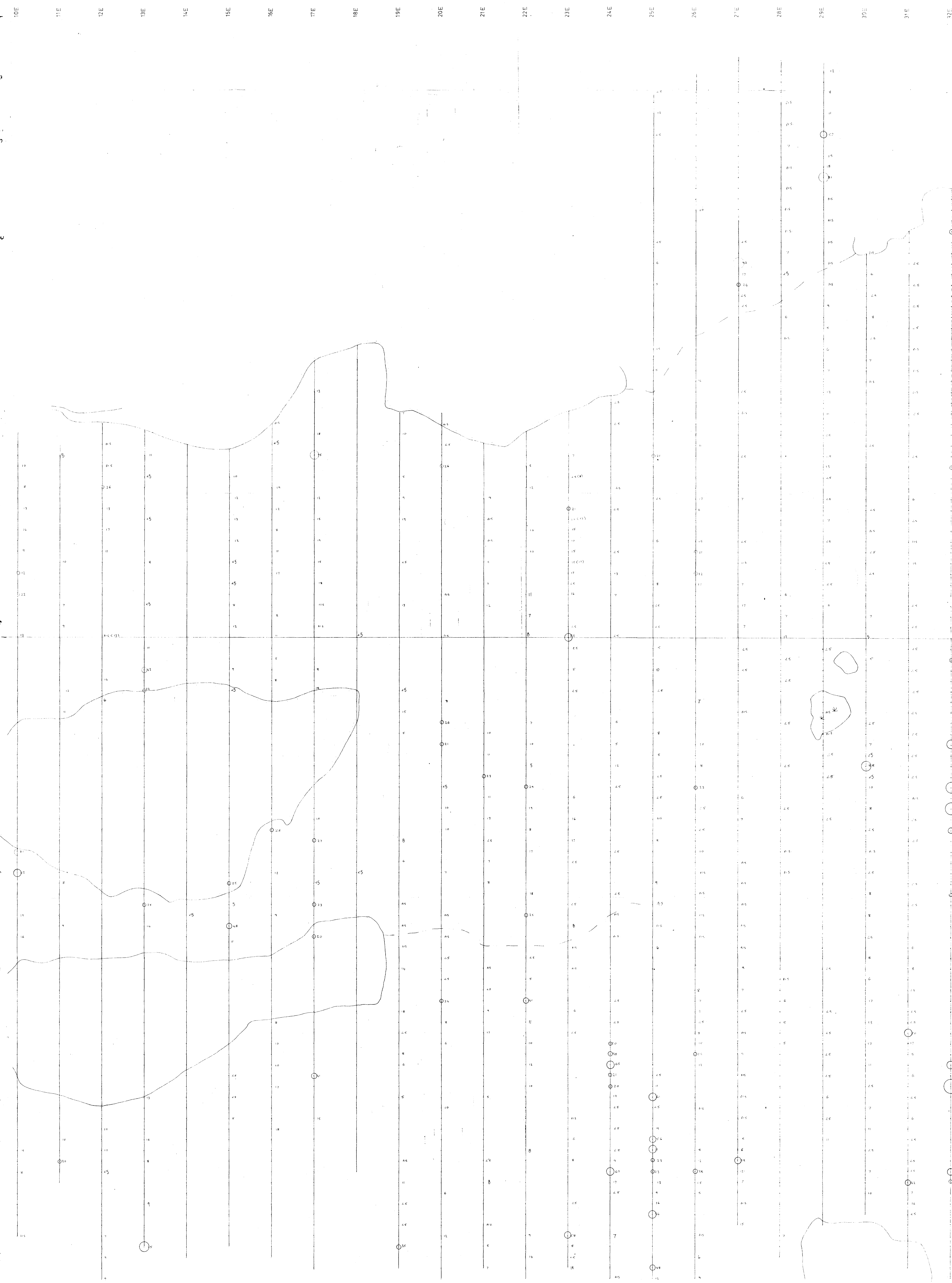




SPRINGER 63-438 NAPLES LAKE

470

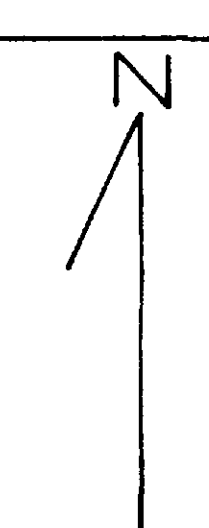




- 131-200
- 121-130
- 111-120
- 101-110
- 91-100
- 81-90
- 71-80
- 61-70
- 51-60
- 41-50
- 31-40
- 20-30



480



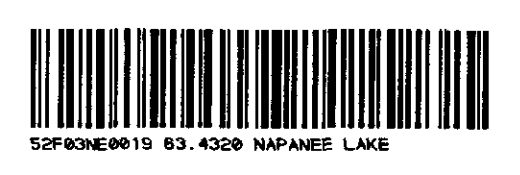
SPARION RESOURCES INC. STRAW LAKE PROJECT
SOIL SURVEY GOLD (ppb)
EAST SHEET
Scale: 1 2500

#63-4320

13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 00 1E 2E 3E 4E 5E 6E 7E 8E 9E



- 131 - 200
- 121 - 130
- 111 - 120
- 101 - 110
- 91 - 100
- 81 - 90
- 71 - 80
- 61 - 70
- 51 - 60
- 41 - 50
- 31 - 40
- 20 - 30



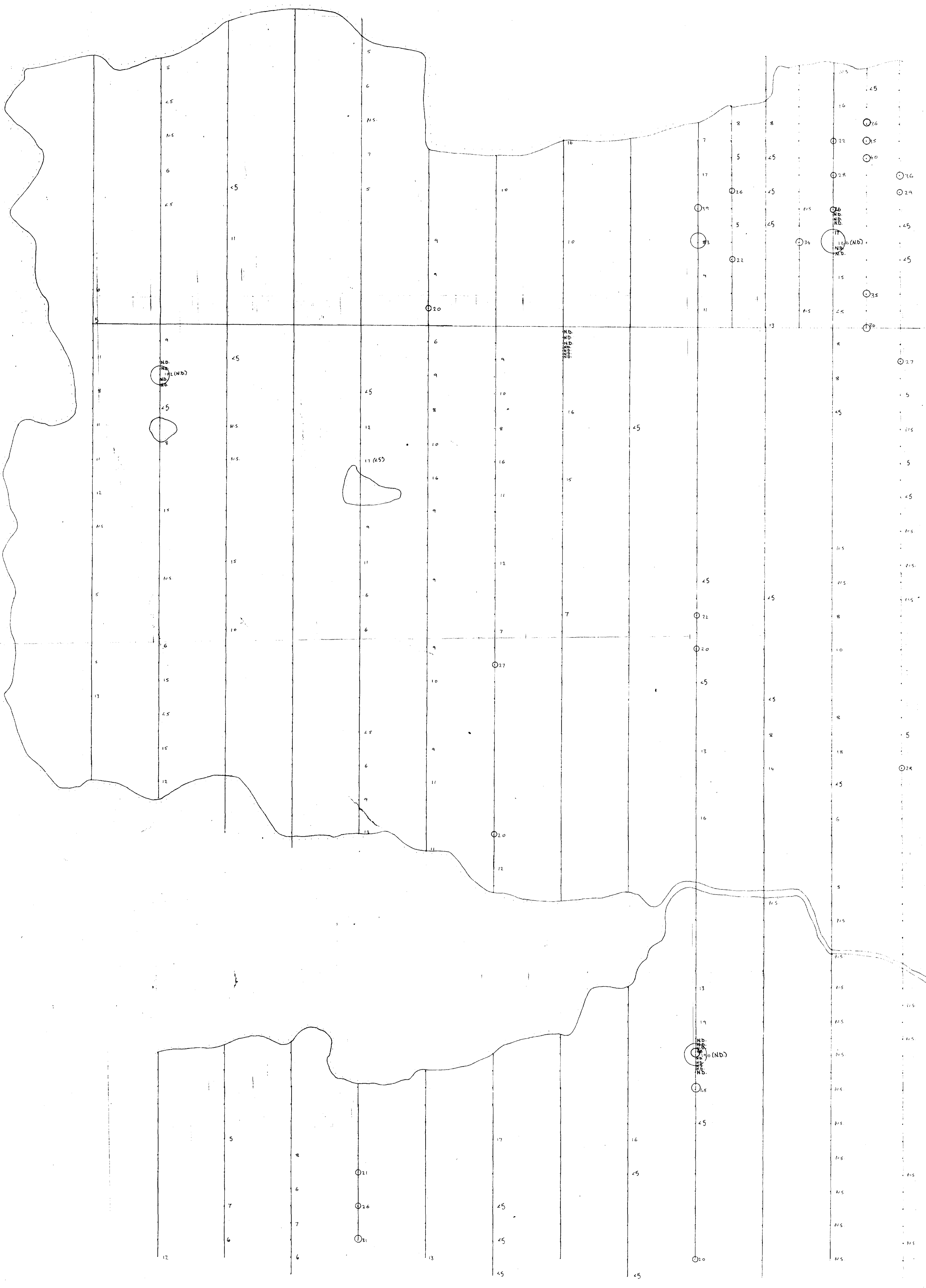
490



SPARTON RESOURCES INC. STRAW LAKE PROJECT	
SOIL SURVEY GOLD (ppb)	
CENTRAL SHEET	
Scale 1:2500	#63-4320

Sept 28/85 J.H.  
Oct 24/85 J.H.

26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W

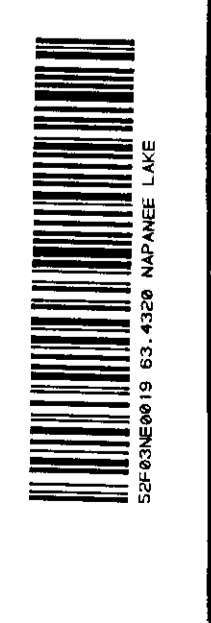
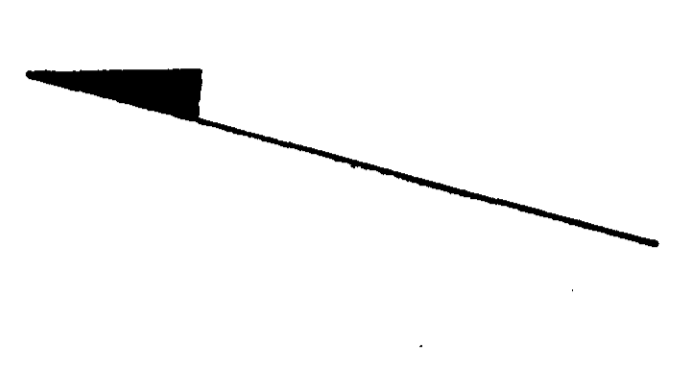


- 131 - 200
- 121 - 130
- 111 - 120
- 101 - 110
- 91 - 100
- 81 - 90
- 71 - 80
- 61 - 70
- 51 - 60
- 41 - 50
- 31 - 40
- 20 - 30



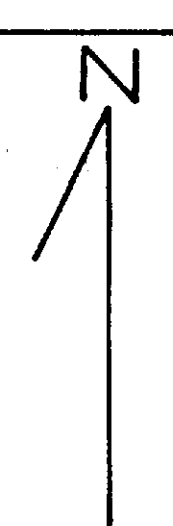
SPARTON RESOURCES INC. STRAW LAKE PROJECT	
SOIL SURVEY GOLD (ppb)	
WEST SHEET	
Scale 1: 2500	#48-4320



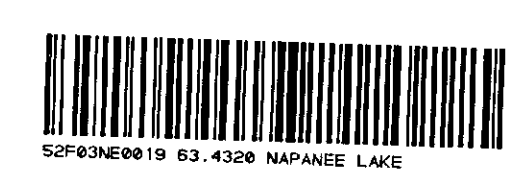




10E 11E 12E 13E 14E 15E 16E 17E 18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E 29E 30E 31E 32E



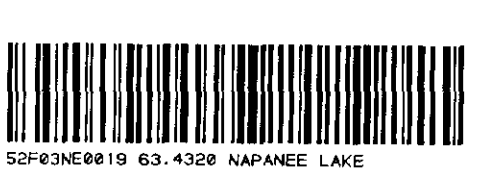
SPARTON RESOURCES INC.  
STRAW LAKE PROJECT  
SOILS-COPPER (ppm)  
EAST SHEET  
Scale: 1:2500 #63-4320



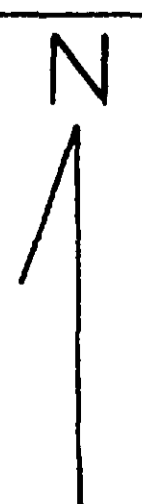
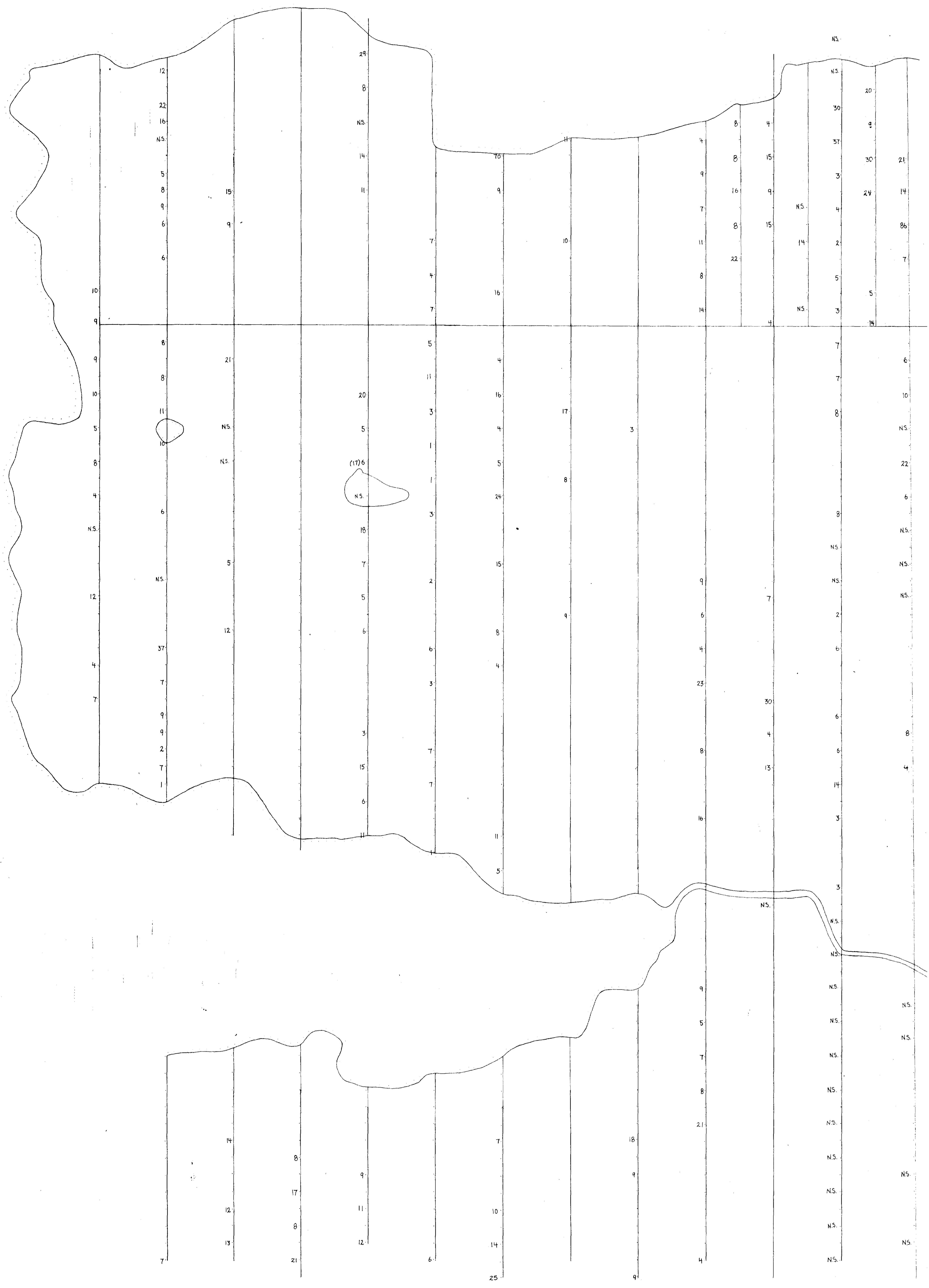
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 00 1E 2E 3E 4E 5E 6E 7E 8E 9E



SPARTON RESOURCES INC. STRAW LAKE PROJECT	
SOILS-COPPER (ppm)	
CENTRAL SHEET	
Scale 1:2500	#63-4320



26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W 14W



SPARTON RESOURCES INC.  
 STRAW LAKE PROJECT

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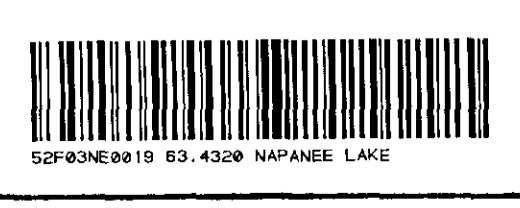
SOILS-COPPER (ppm)

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WEST SHEET

---

Scale 1: 2500



SPARKTON RESOURCES INC.

STRAW LAKE PROJECT

SOILS-COPPER (ppm)

WEST GRID

Scale 1:2500


# 03-W320

Printed On: 2/28/94 J.H.





560

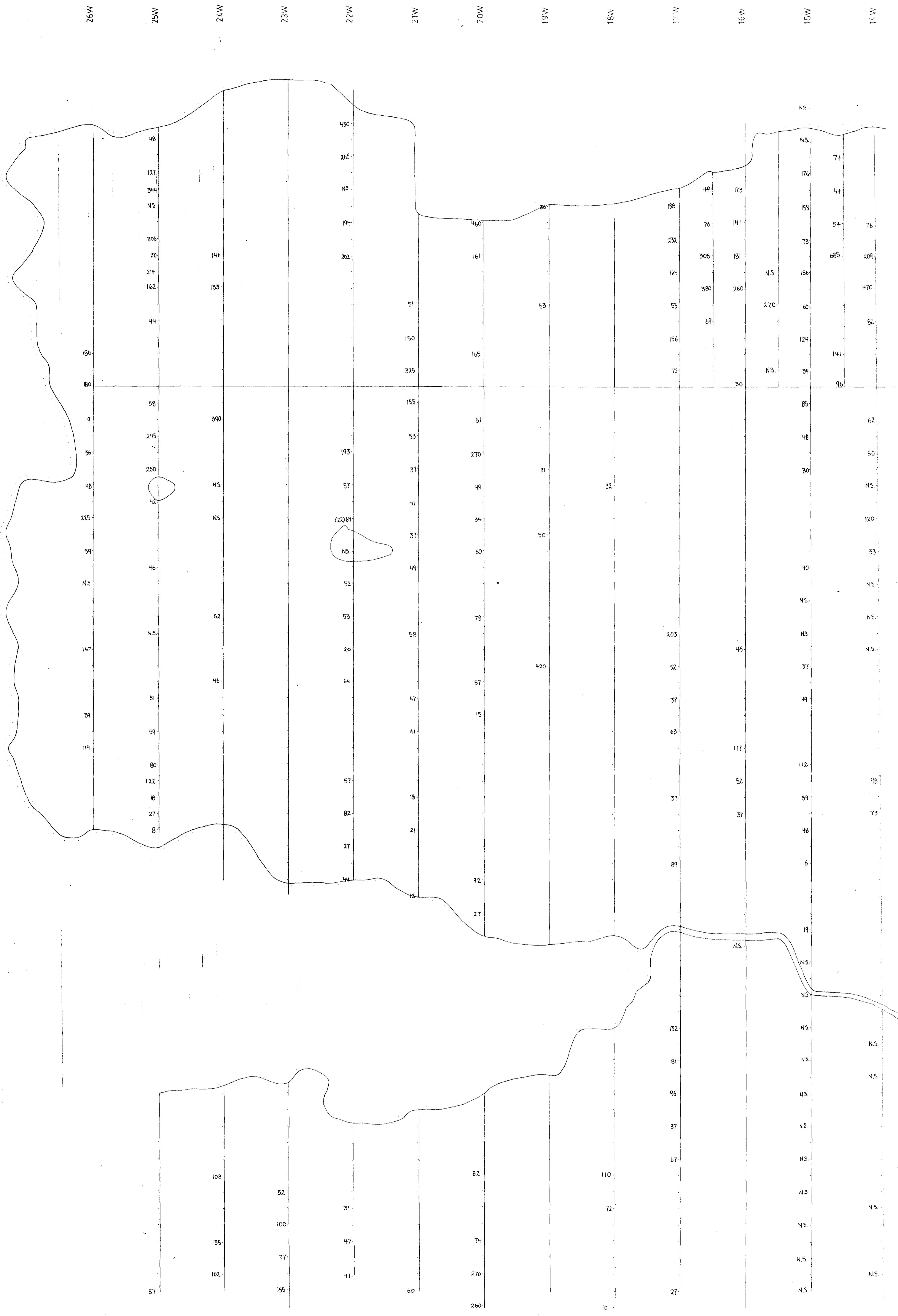
  
**SPARTON RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**SOILS-ZINC (ppm)**  
**EAST SHEET**  
 Scale 1:2500 #63-#320





SPARTON RESOURCES INC. STRAW LAKE PROJECT	
SOILS-ZINC (ppm)	
CENTRAL SHEET	
Scale 1 : 2500	#63-4320





SPARTON RESOURCES INC.  
 STRAW LAKE PROJECT

SOILS-ZINC (ppm)

WEST SHEET

Scale 1:2500 #63-4320

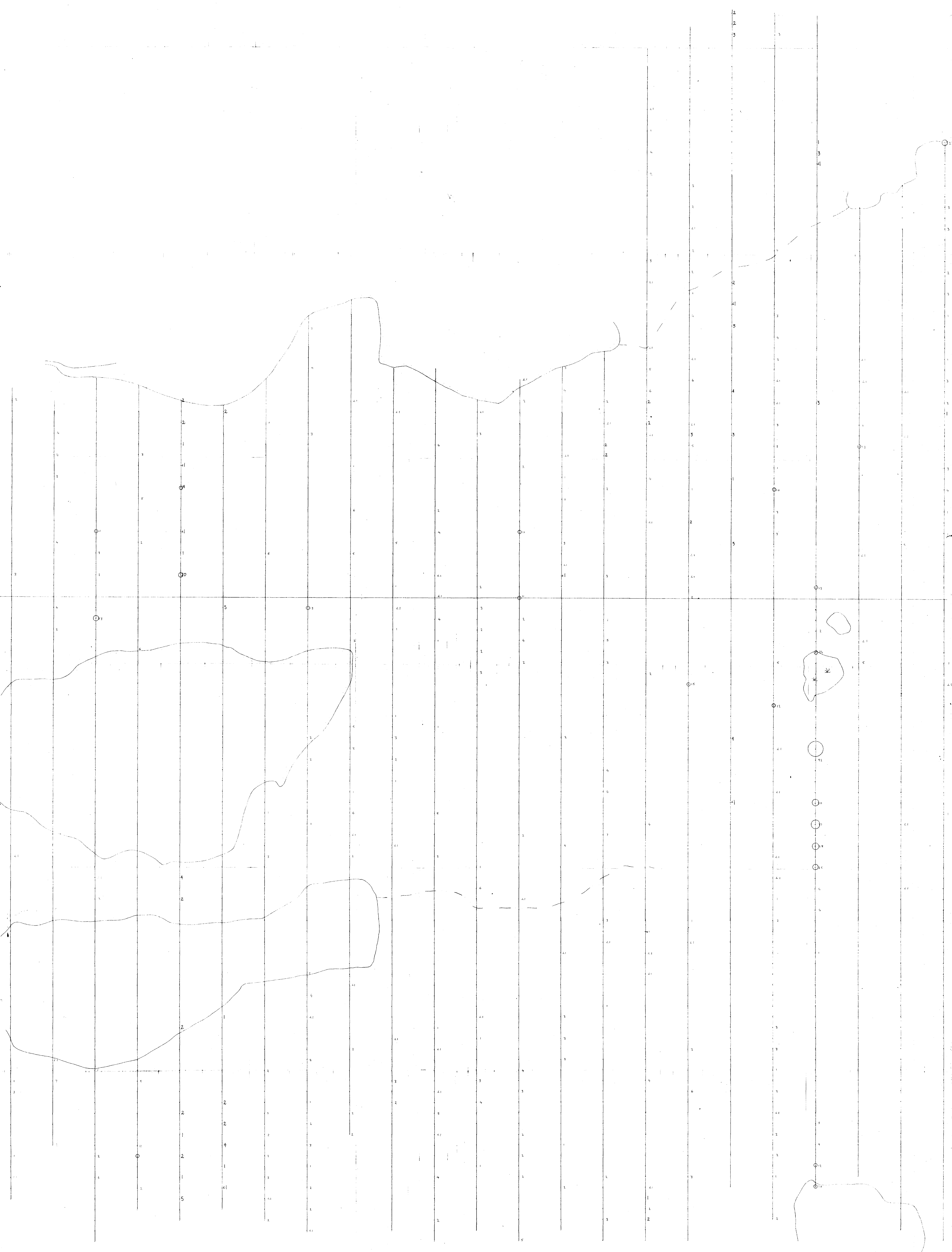


580





10E 11E 12E 13E 14E 15E 16E 17E 18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E 29E 30E 31E 32E



○	> 65
○	61 - 64
○	56 - 60
○	51 - 55
○	46 - 50
○	41 - 45
○	36 - 40
○	31 - 35
○	26 - 30
○	21 - 25
○	16 - 20
○	10 - 15

SPARTON RESOURCES INC.  
STRAW LAKE PROJECT

HUMUS SURVEY  
GOLD (ppb)

EAST SHEET

Scale: 1:2500 #03-4320

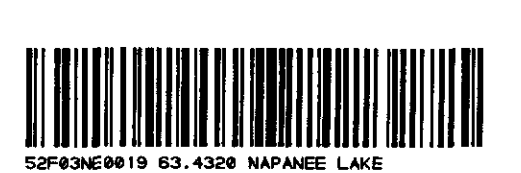
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 3W 2W 1W 00 1E 2E 3E 4E 5E 6E 7E 8E 9E



- > 65
- 61 - 64
- 56 - 60
- 51 - 55
- 46 - 50
- 41 - 45
- 36 - 40
- 31 - 35
- 26 - 30
- 21 - 25
- 16 - 20
- 10 - 15



SPARION RESOURCES INC. STRAW LAKE PROJECT	
HUMUS SURVEY GOLD (ppb)	
CENTRAL SHEET	
Scale 1:2500	#03-4320



26W 25W 24W 23W 22W 21W 20W 19W 18W 17W 16W 15W

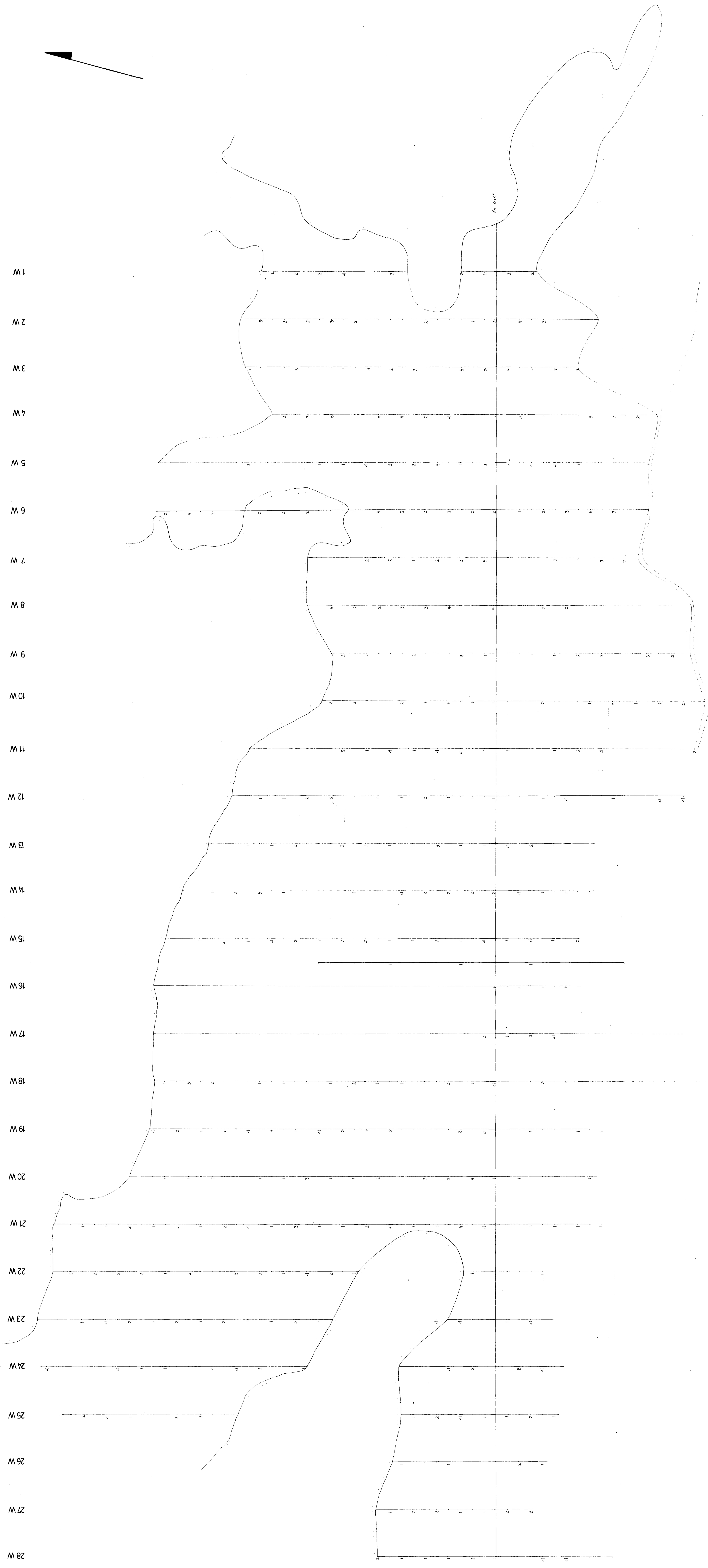


- 65
- 61 - 64
- 56 - 60
- 51 - 55
- 46 - 50
- 41 - 45
- 36 - 40
- 31 - 35
- 26 - 30
- 21 - 25
- 16 - 20
- 10 - 15



SPARTON RESOURCES INC. STRAW LAKE PROJECT	
HUMUS SURVEY GOLD (ppb)	
WEST SHEET	
Scale 1:2500	#63-4320

Sept 28/85 JH  
Nov 3/85





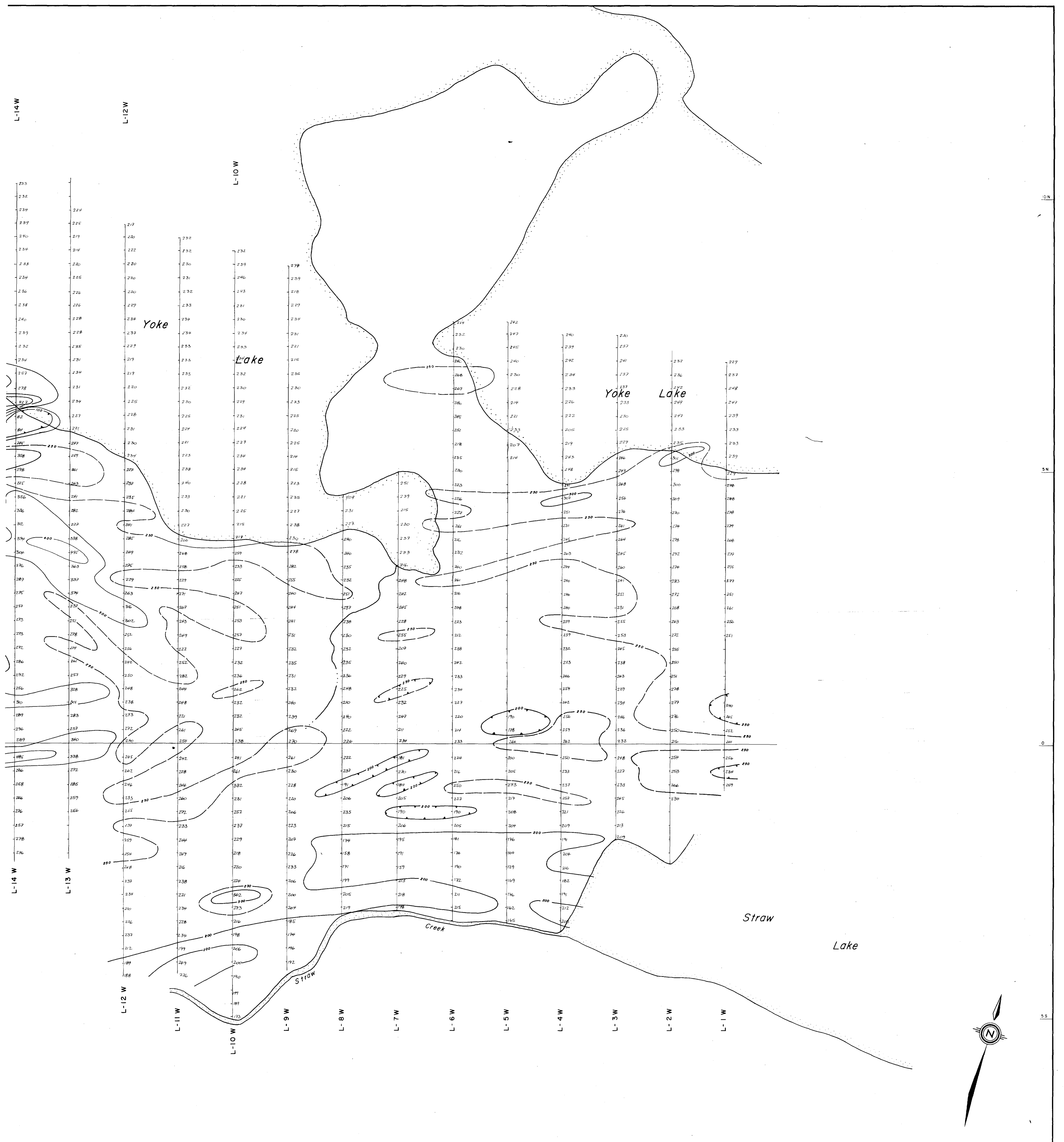
**IND**  
 lines in gammas  
 30 gammas  
 contours  
 contours

1 gammas to 1000,  
 3 gammas to 5000  
 MP-2 Proton mag

#63-4320

<b>SPARTON RESOURCES INC.</b>		
<b>STRAW LAKE PROJECT</b>		
<b>EAST GRID</b>		
<b>MAGNETOMETER SURVEY</b>		
SCALE: 1:2500	NTS: 52 F/3	DATE: FEB, 1984



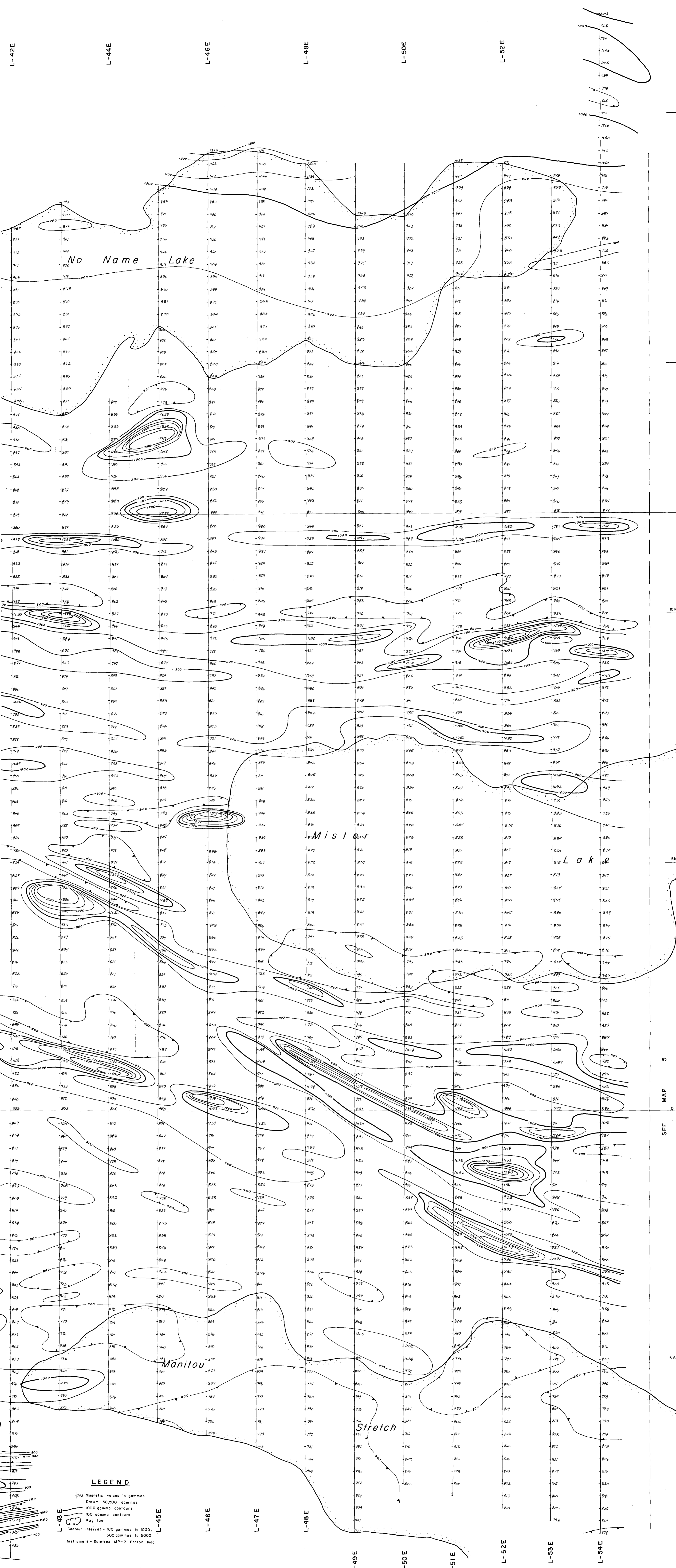


**LEGEND**

- ↑ Magnetic values in gammas
- Datum 59,000 gammas
- 1000 gamma contours
- 100 gamma contours
- Mag low
- Contour interval - 100 gammas to 1000,  
500 gammas to 5000
- Instrument - Scintrex MP-2 Proton mag

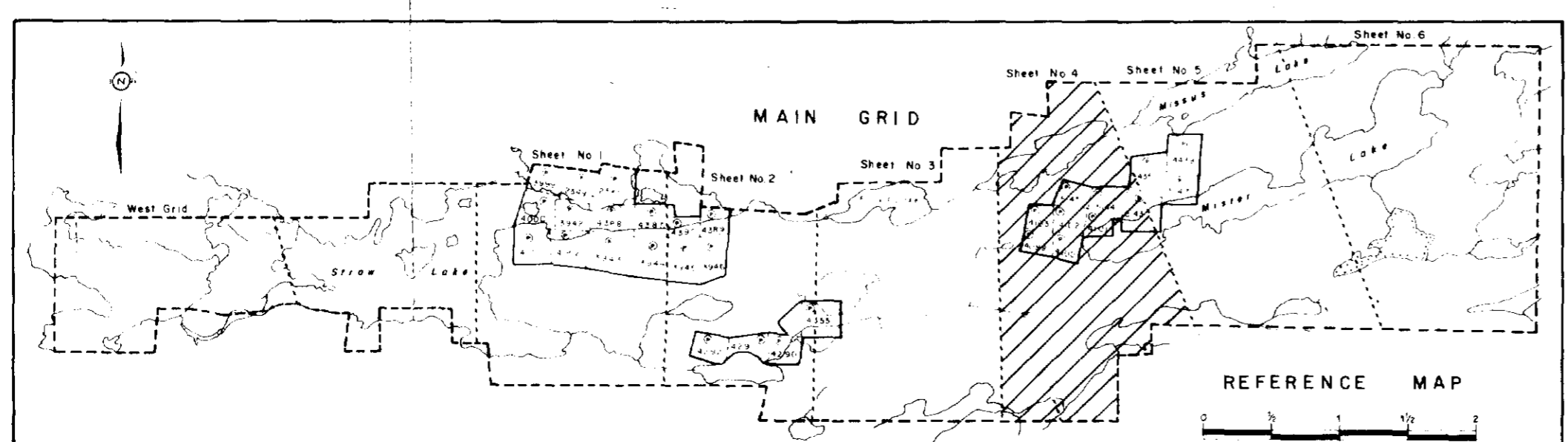
#63-4320

<b>SPARTON RESOURCES INC.</b>		
STRAW LAKE PROJECT WEST GRID		
<b>MAGNETOMETER SURVEY</b>		
SCALE: 1:2500	N.T.S.: 52 F/3	DATE: DEC., 1983



**LEGEND**

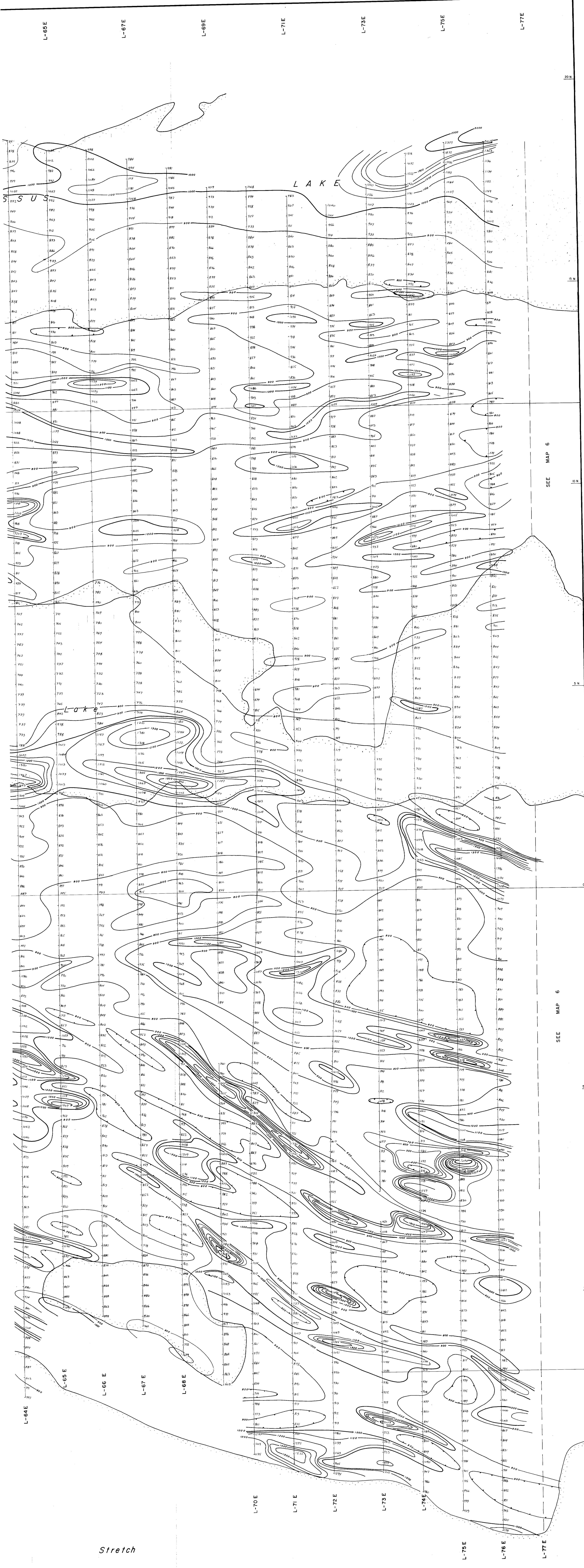
- 772 Magnetic values in gammas
- Datum 58,500 gammas
- 1000 gamma contours
- 100 gamma contours
- Mag low
- Contour interval - 100 gammas to 1000, 500 gammas to 5000
- Instrument - Sciencex MP-2 Proton mag



#63.4320

<b>SPARTON RESOURCES INC.</b>		
STRAW LAKE PROJECT MAIN GRID, SHEET NO. 4		
MAGNETOMETER SURVEY		
SCALE: 1:2500	N.T.S.: 52/F/3	DATE: DEC. 1983





Stretch

**LEGEND**

- 1722 Magnetic values in gammas
- Datum 58,500 gammas
- 1000 gamma contours
- 100 gamma contours
- Map 1:500
- Contour interval - 100 gammas to 1500,
- 500 gammas to 5000.
- Instrument - Sciencex MP-2 Proton mag.

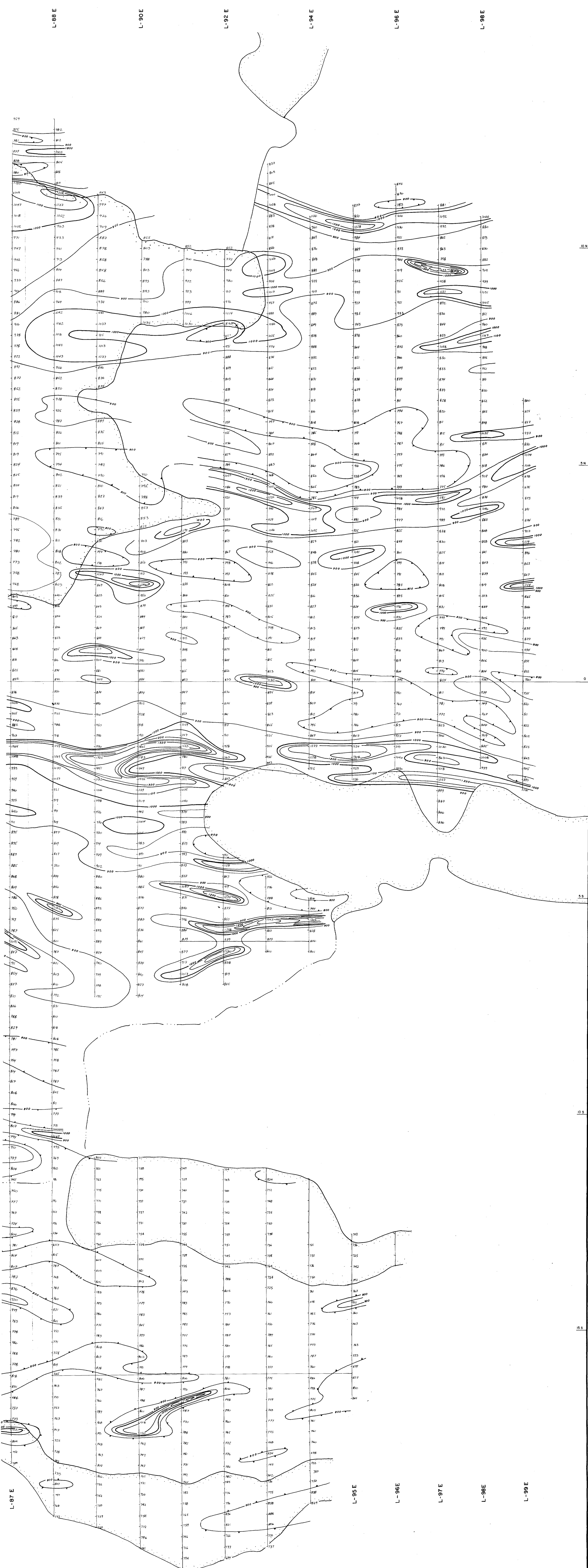
#63-4320

**SPARTAN RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 5**

**MAGNETOMETER SURVEY**

SCALE: 1:2500 N.T.S. 52 F/3 DATE: DEC. 1988





**LEGEND**

- 1172 Magnetic values in gammas
- Datum 58,500 gammas
- 1000 gamma contours
- 100 gamma contours
- 50 gamma contours
- Contour interval = 100 gammas to 1500,
- 500 gammas to 5000
- Instrument - Scintrex MP-2 Proton mag.

#63-4320

**SPARTAN RESOURCES INC.**  
**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 6**

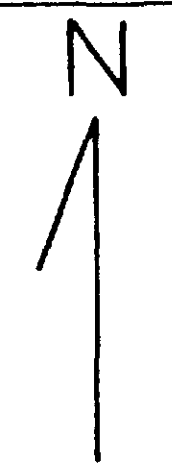
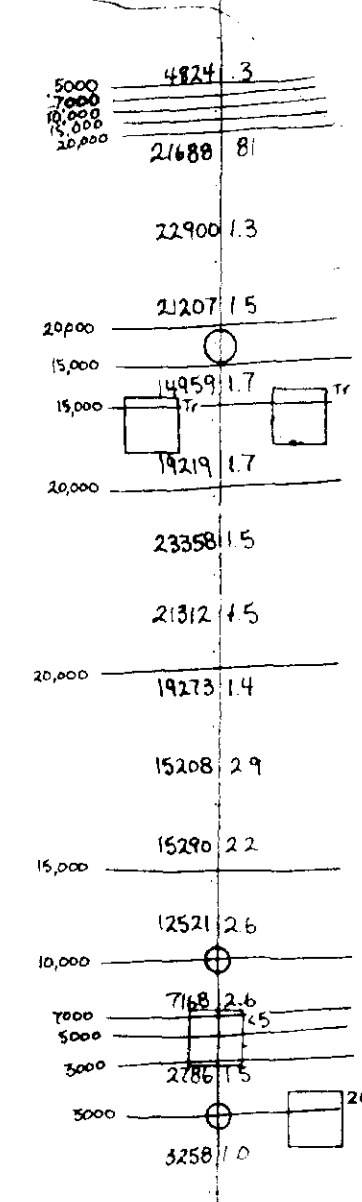
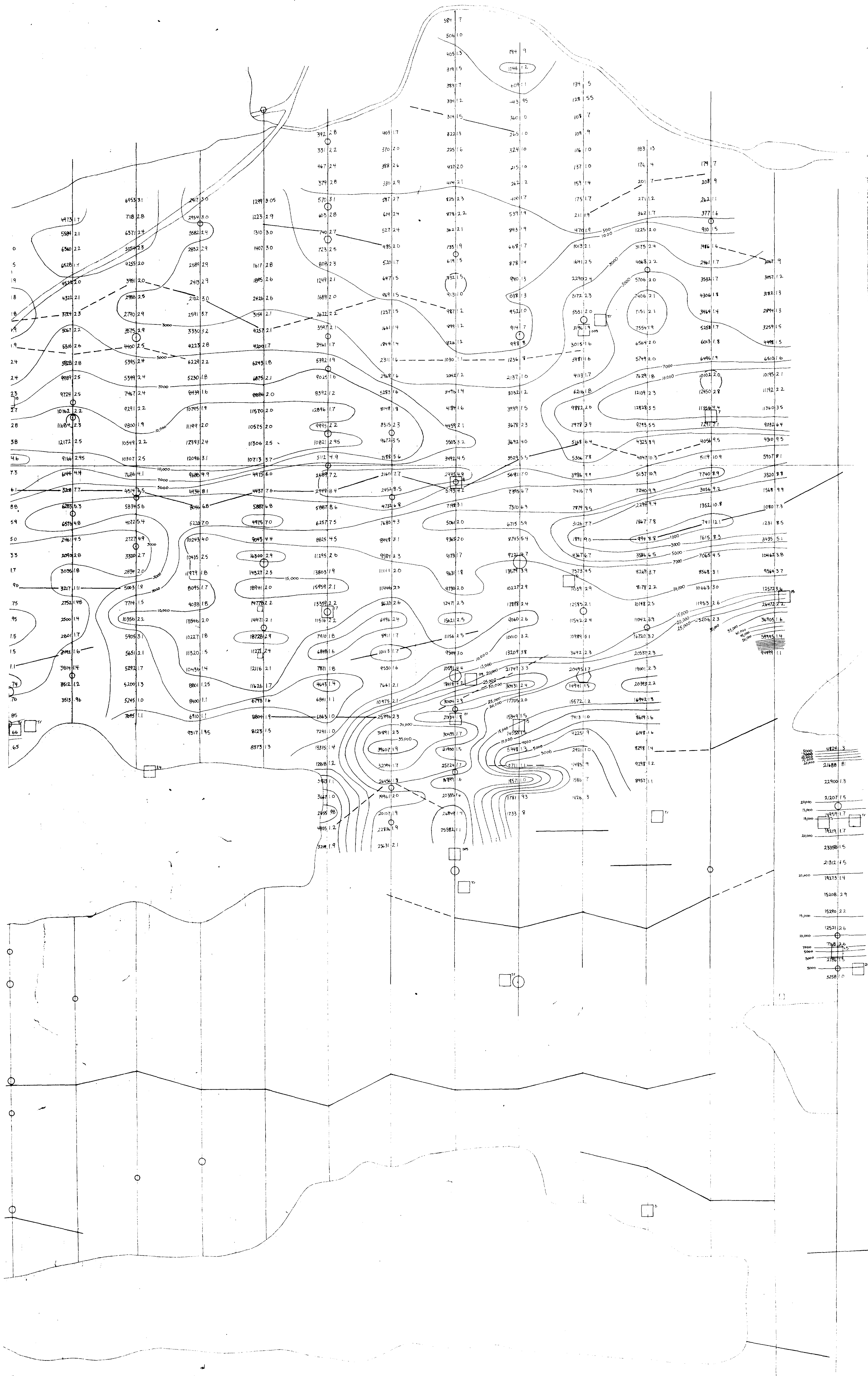
**MAGNETOMETER SURVEY**

SCALE: 1:2500	N.T.S.: 52.F/3	DATE: DEC. 1983
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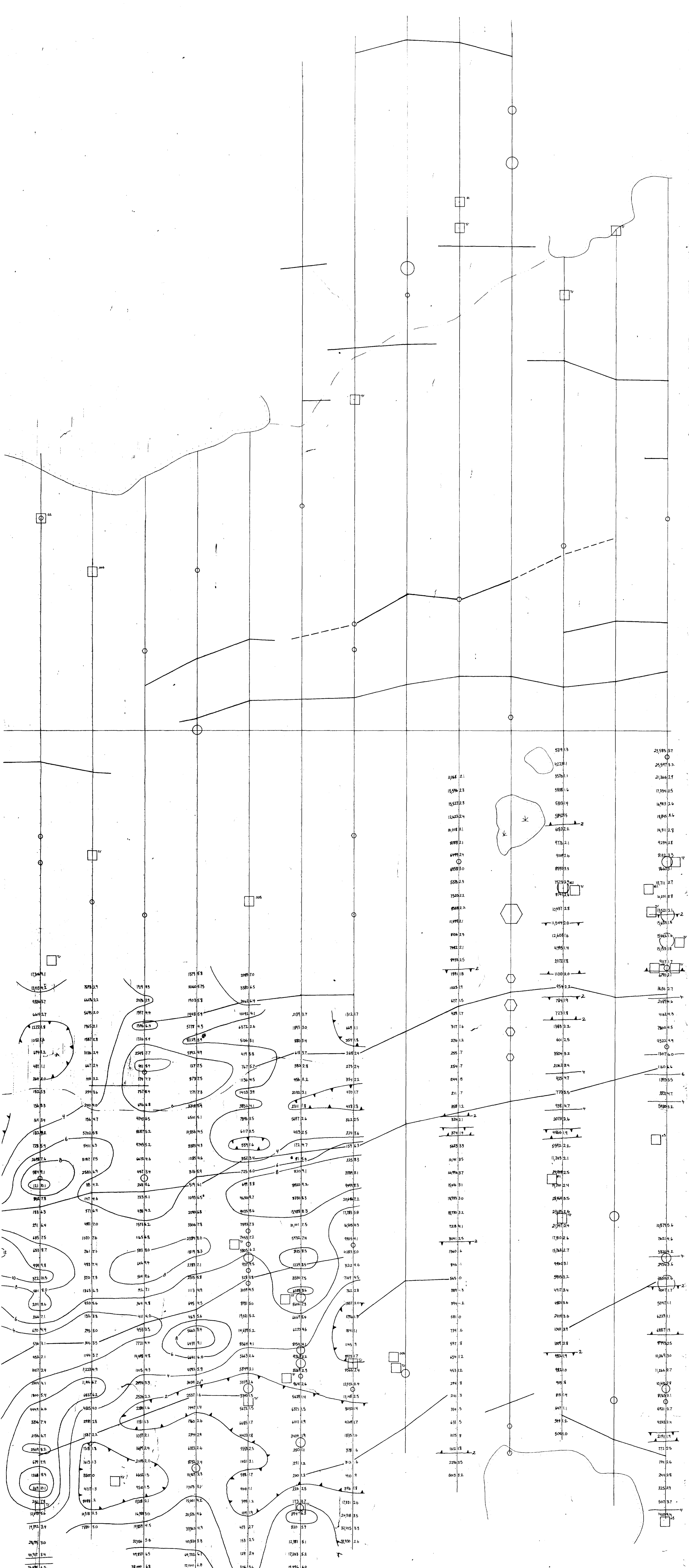


3W 2W 1W 00 1E 2E 3E 4E 5E 6E 7E 8E 9



SPARTON RESOURCES INC.	
Filtered Resistivity/Frequency Effect Plan	
CENTRAL SHEET	
Scale 1:2500	#63.4320

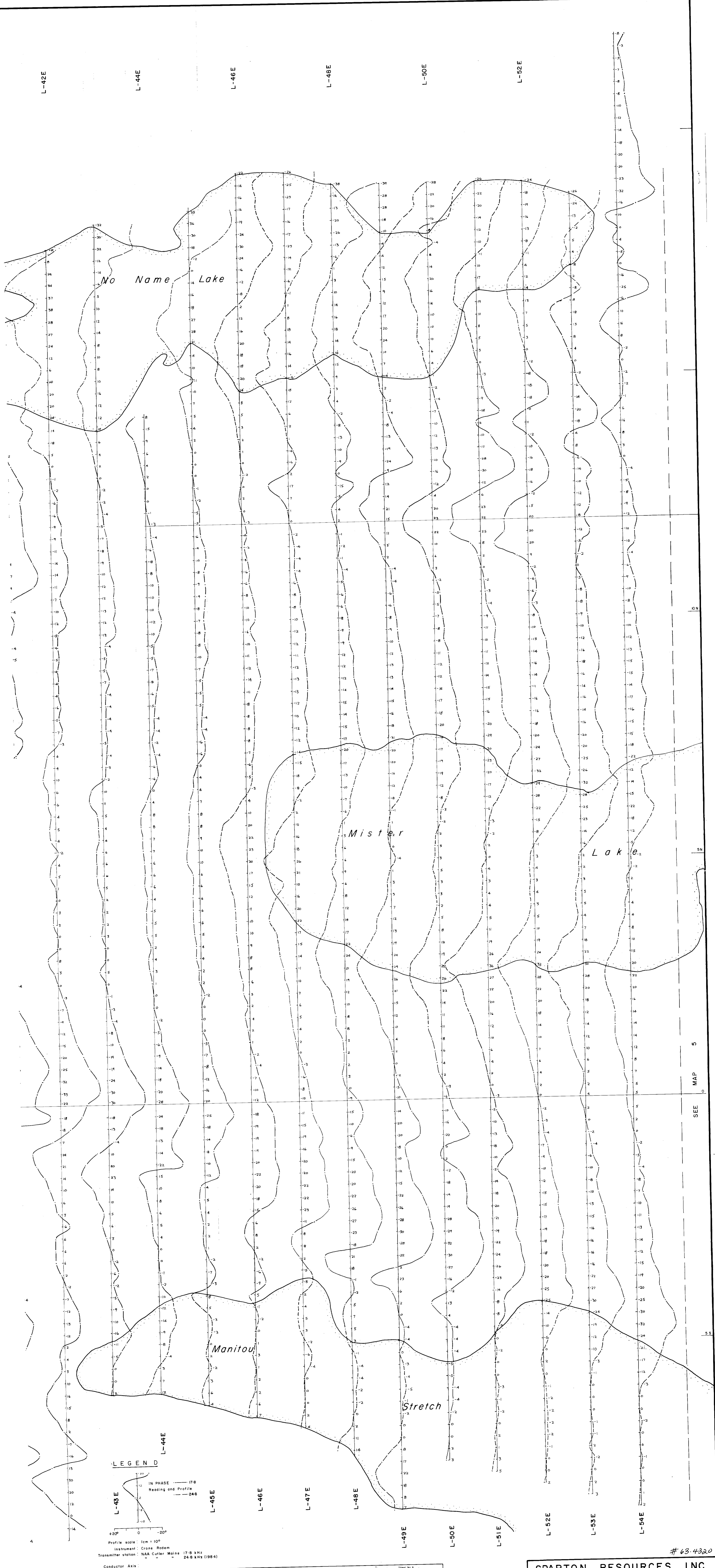
20E 21E 22E 23E 24E 25E 26E 27E 28E 29E 30E 31E 32E



232000.0



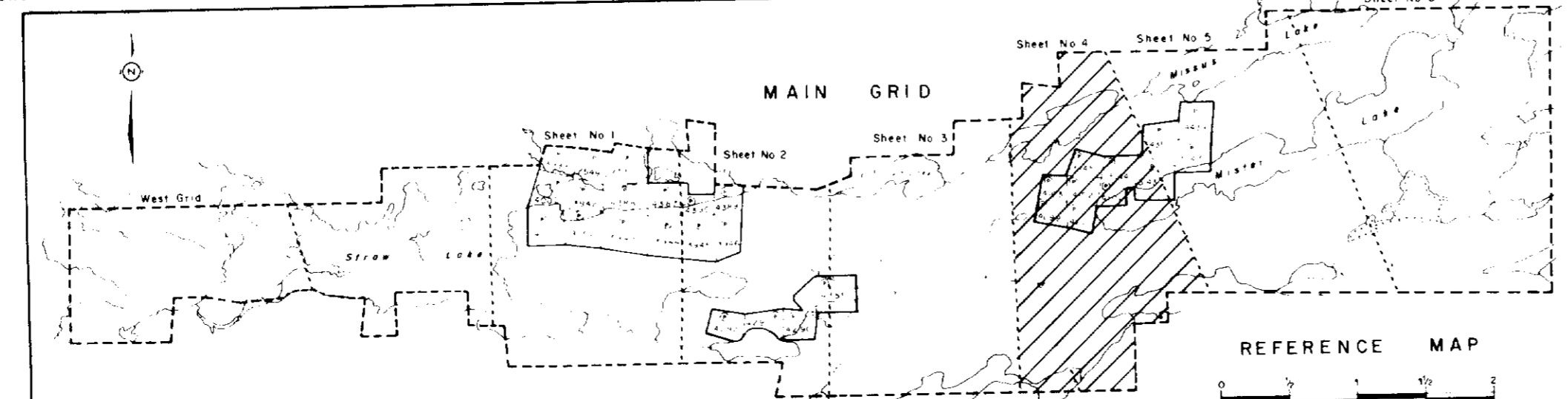
SPARTON RESOURCES INC.	
Filtered Resistivity/Frequency Effect Plan	
EAST SHEET	
Scale: 1:2500	#634320



**LEGEND**

IN PHASE  
 Reading and Profile  
 17.8  
 24.8

Profile scale: 1cm = 10⁵  
 Instrument: Crane Rodem  
 Transmitter station: NAA Cutler Maine 17.8 kHz  
 24.8 kHz (1984)  
 Conductor Axis:



# 63.4320

**SPARTON RESOURCES INC.**

**STRAW LAKE PROJECT**  
**MAIN GRID, SHEET NO. 4**

**VLF ELECTROMAGNETIC SURVEY**

SCALE: 1:2500    N.T.S.: 52F/3    DATE: DEC. 1983

SEE MAP 5



L-65E

L-67E

L-69E

L-71E

L-73E

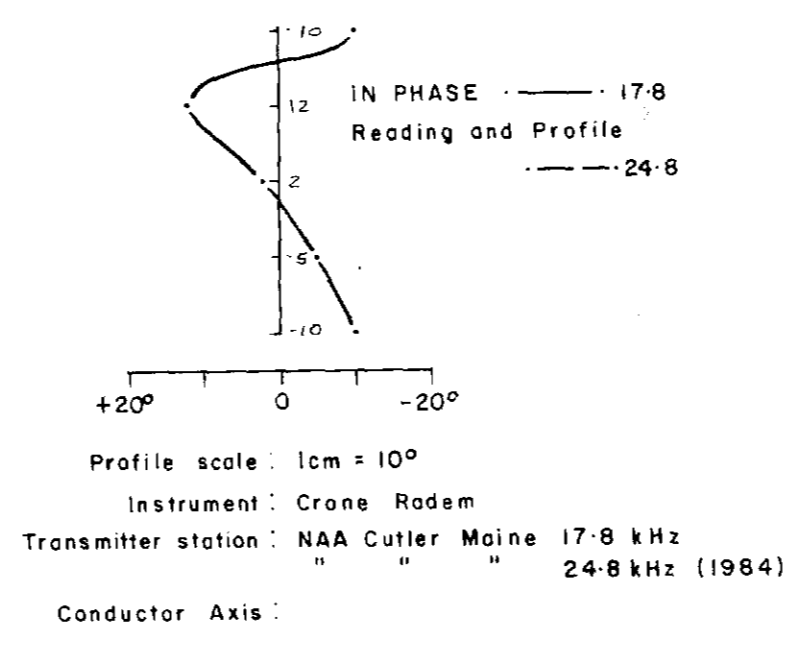
L-75E

L-77E

L a k e

Stretch

LEGEND



SEE MAP 6

SEE MAP 6

5N

5S

10S

15S

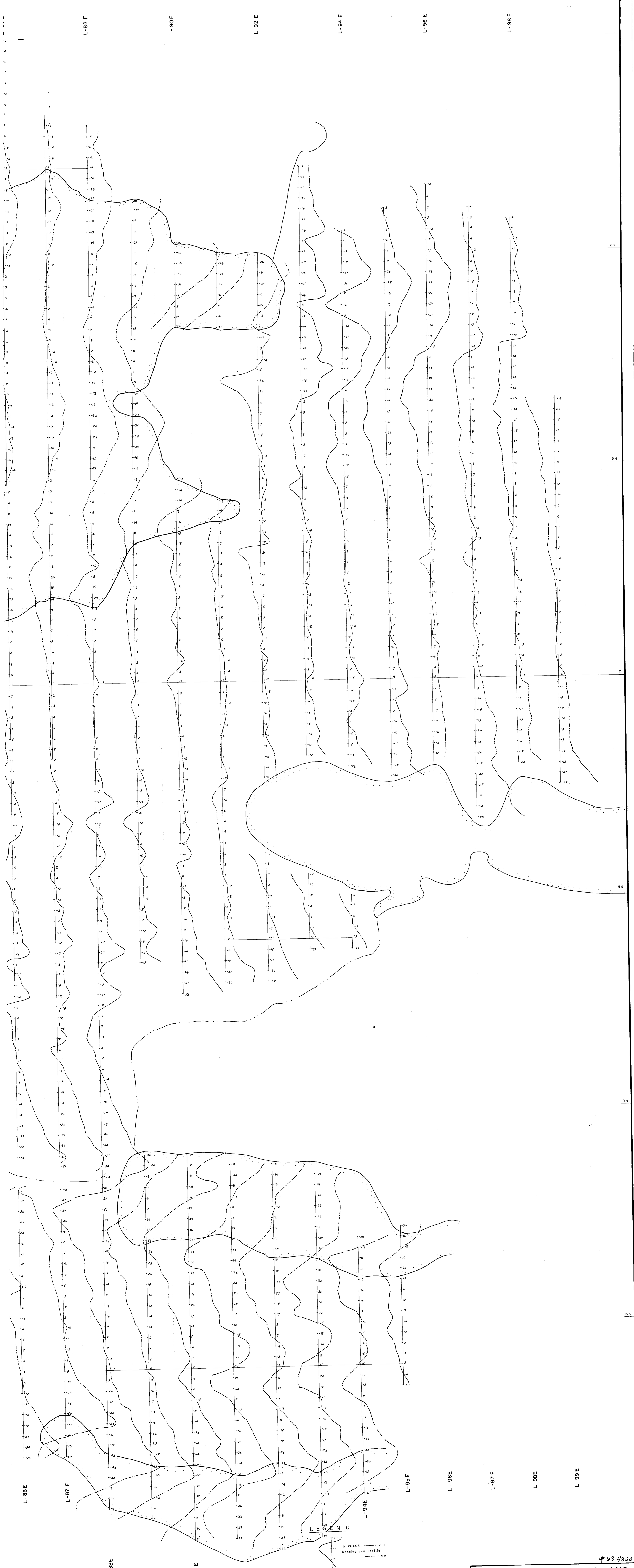
SPARTAN RESOURCES INC.

STRAW LAKE PROJECT  
MAIN GRID, SHEET NO. 5

VLF ELECTROMAGNETIC SURVEY

SCALE: 1:2500 N.T.S.: 52.F/3 DATE: DEC., 1983

#63-4320



Profile scale: 1cm = 100'  
 Instrument: Crone Rosen  
 Transmitter station: NAA Cutler Maine 17.8 kHz  
 24.8 kHz (1984)  
 Conductor Axis

# 63-4320

<b>SPARTON RESOURCES INC.</b>		
STRAW LAKE PROJECT		
MAIN GRID, SHEET NO. 6		
VLF ELECTROMAGNETIC SURVEY		
SCALE: 1:2500	N.T.S.: 52 F/3	DATE: DEC., 1983



**G E N D**

IN PHASE  
Reading and Profile

0 -20°

Scale: 1cm = 10°

rent: Crane Rodem

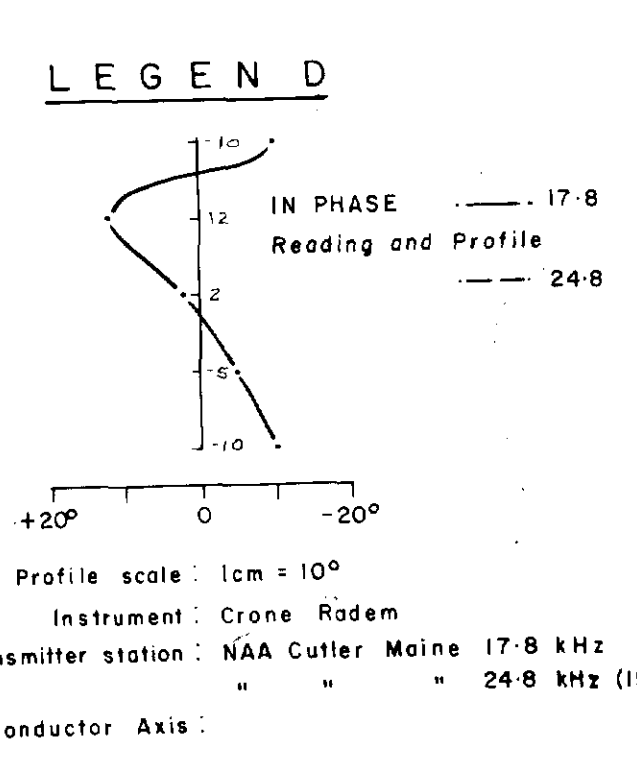
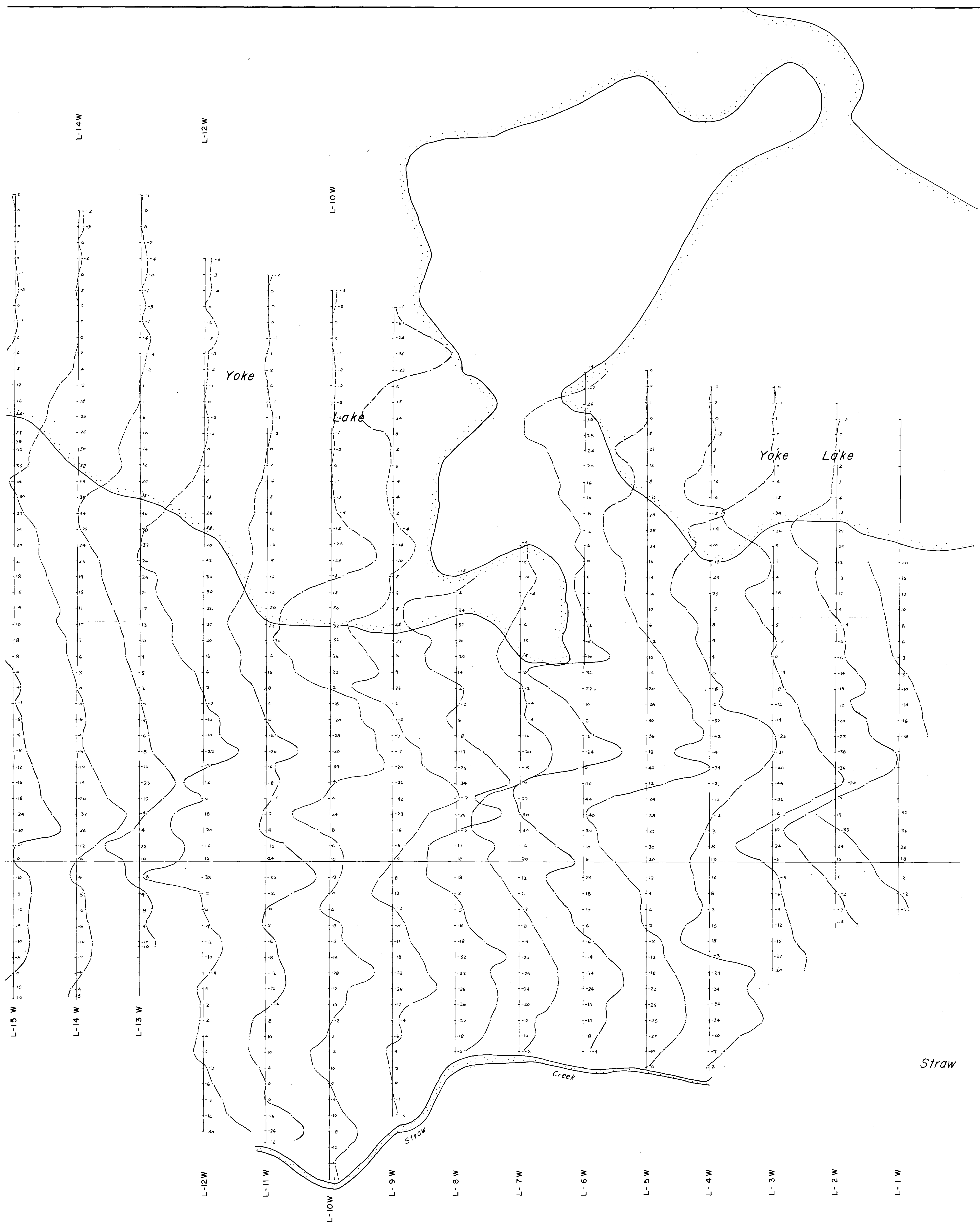
Non: NAA Colter Maine 24.6 kHz (1984)

Axis

SPARTON RESOURCES INC.		
STRAW LAKE PROJECT		
EAST GRID		#634320
VLF ELECTROMAGNETIC SURVEY		
SCALE: 1:2500	NTS: 52 F/3	DATE: FEB, 1984

SEE MAP 1





#63.4320

<b>SPARTON RESOURCES INC.</b>		
STRAW LAKE PROJECT WEST GRID		
VLF ELECTROMAGNETIC SURVEY		
SCALE: 1:2500	N.T.S.: 52 F/3	DATE: DEC., 1987