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MINING LANDS SECTION

REPORT
ON
GEOPHYSICAL SURVEYS
ON PROPERTIES OF
SILVERSIDE RESOURCES INC.
DAVIS TOWNSHIP, ONT.

by

PROSPECTING GEOPHYSICS LTD.

Toronto, Ontario

August 26, 1981.

REPORT
ON
GEOPHYSICAL SURVEYS
ON PROPERTIES OF
SILVERSIDE RESOURCES INC.
DAVIS TOWNSHIP, ONT.

INTRODUCTION

Geophysical surveys consisting of both V.L.F. electromagnetic and magnetic have been completed on two separate properties owned by Silverside Resources Inc. in Davis township, Ontario. These surveys follow the Phase I recommendations in a report by R. B. German, P. Eng. dated April 1, 1981. The object of the surveys is to confirm and delineate anomalous zones that have been described in earlier exploration programs.

The object of the geophysical surveys is twofold:

1. The magnetometer survey should indicate geological contacts and is expected to outline favourable volcanic trends for gold mineralization.

2. The V.L.F. (very low frequency) electromagnetic survey will outline such poor conductors as shear zones, sheared contacts, faults, and alteration zones that could be host for gold mineralization.

The following report and accompanying maps describe the results of the surveys and provide an initial interpretation of the results.

- 2 -

PROPERTIES

The surveys have been carried out on two separate properties just over one mile apart. They are situated in Davis township, Sudbury area, Ontario some 15 miles northeast of Falconbridge Nickel Mines.

The Main Group consists of 37 claims as shown on the accompanying maps. The claims are numbered as follows:

S572211 to S572223 incl.
S572225 to S572229 "
S572231 to S572237 "
S572239 to S572244 "
S572250 to S572255 "

The second group of claims referred to as the East Group consists of 10 claims registered under the following numbers:

S551981 to S551984 incl.
S572536 to S572537 "
S575206 to S575209 "

GEOLOGY

The geology is described in Mr. German's report and only the highlights are mentioned here which may be relevant in interpreting the geophysical results.

The Main Group of claims is underlain by the Gowganda formation which consists of an assemblage of conglomerate, greywacke and quartzite. Outcrops on the property have indicated the presence of quartzite breccias and disseminated pyrite has been found through c: formation.

- 3 -

The geology of the East Group of claims is generally similar to that of the Main Group but the two westerly claims appear to be underlain by the Lorrain formation.

Exploration in the area has indicated numerous gold occurrences some of which have associated copper mineralization. Minor occurrences of chalcopyrite have been observed on the northwest claim of the East Group in an old shaft that was sunk on a quartz vein.

SURVEY METHODS AND INSTRUMENT DATA

The geophysical surveys were carried out over lines at 200 foot intervals as shown on the accompanying maps.

The V.L.F. (very low frequency) survey was carried out using a Geonics EM-16 unit. This method uses the radiation from powerful military radio transmitters at low frequencies as primary signals as opposed to portable transmitters in the conventional E.M. methods. The instrument has two receiving coils and the parameters measured are:

- (1) The vertical in-phase component.
- (2) The vertical out-of-phase component.

(quadrature component)

The interpretation of the results uses the relative measurements of these two parameters and it is possible to outline such poor conductors as sheared contacts, breccia

zones, faults, and alteration zones, as well as the good sulphide conductors. Because V.L.F. anomalies are produced by a wide range of geological effects, profiles sometimes tend to show a complex "cluttered" pattern and additional assistance is required to distinguish trends. By the use of the Fraser method of filtering tilt angle profiles, the readings are converted into contourable data that are plotted on one of the accompanying maps. In addition, the vertical in-phase and out-of-phase components have been plotted as profiles on a separate map to obtain a maximum interpretation of results.

The magnetic survey was carried out over the same network of lines using a MF-1 fluxgate magnetometer. This instrument records the vertical component of the earth's magnetic field in gammas. These are plotted on a separate map after correction for diurnal variation. The results have been contoured and the electrical conductor axes have been superimposed on the magnetic map to aid in the interpretation.

RESULTS OF THE GEOPHYSICAL SURVEYS

The results of the surveys on the Main Group and the East Group are plotted on separate sheets. As mentioned earlier, the electromagnetic results have been plotted both as profiles and contours (Fraser reduction) on separate maps with the magnetic data on a third map.

- 5 -

The following maps are included with this report.

Map 1 - Electromagnetic Survey - East Group (Fraser Reduction)

Map 1A Electromagnetic Survey - East Group (Profiles)

Map 3 - Magnetometer Survey - East Group.

Map 2 - Electromagnetic Survey - Main Group (Fraser Reduction)

Map 2A Electromagnetic Survey - Main Group (Profiles)

Map 2B Magnetometer Survey - Main Group.

The conductor axes have been taken from the Fraser reduction maps (Maps Nos. 1 and 2) and have been superimposed on the other maps. The main conductive zones on each map have been lettered A, B, C etc. for reference purposes. The following is a description of those zones.

EAST GROUP

Maps Nos. 1, 1A and 3

The results have been plotted on maps with a scale of 200 feet to the inch.

"A" ZONE

Map Nos. 1 and 1A shows this as a well defined wide conductive body trending in an east-west direction and dipping to the north. Unfortunately, a portion of this conductor (lines 26 W, 24 W and 22 W) could not be surveyed as the area was flooded. However, it does appear as though the structure continues to the east but much weaker. It is possible that the conductor lettered "B" zone may be the continuation of this zone rather than that shown as "A".

- 6 -

The magnetic map (Map 3) shows a well defined magnetic anomaly in the northwest portion of the map area. The readings range from 1,000 gammas to 1,900 gammas as compared to 800 gammas to the south. This anomaly may represent the Nepissing diabase and "A" is situated along the south contact. "B" zone to the east likewise is situated along the south contact of the same magnetic anomaly which thins out going eastward.

"C" Zone is a weak conductor at the east end of the property with no apparent magnetic association. It does not appear to be particularly significant.

"D" Zone is also a weak conductor but is within the magnetic anomaly and thus may be significant. It continues off the property to the east.

MAIN GROUP

Map Nos. 2, 2A and 2B

The results of the surveys have been plotted on a scale of 400 feet to the inch as shown on the accompanying maps.

The conductors outlined on this map are generally quite weak with the exception of some short zones at the west end of the property. In addition there are some areas of low conductivity that are probably due to conductive overburden rather than a conductor in the underlying rocks.

"A" Zone is a rather weak but fairly continuous conductor trending in an east-west direction across the property. The

- 7 -

strongest section is at the west end but this higher conductivity may be due to wet ground. The conductor may represent a weak shear or geological contact.

"B" Zone is a slightly stronger conductor at the west end of the property and has a northwest trend. There is a possible continuation eastwards with the strike changing to east-west. However, the conductivity is quite weak here and may be due to the overburden rather than the underlying rocks. There is an old trench on line 34 W that should be investigated as it might provide some information as to the source of the conductivity.

"C" and "D" Zones are short conductors at the west end of the property, both of which continue westward off the property. They are situated in swampy ground and thus conductive overburden cannot be ruled out. However, "D" zone is situated along the flank of a magnetic anomaly and thus could represent a shear zone along a contact.

"E" Zone is a weak northwest trending conductor that does not appear to be very significant. However, old trenches were noted on either side of the conductor and thus it warrants further investigation.

The magnetic map shows several irregular anomalous zones with readings well above background similar to those encountered on the East group. These probably represent intrusive bodies which may be diabase dykes or sills. The conductive zones discussed above do not appear to be related to

- 8 -

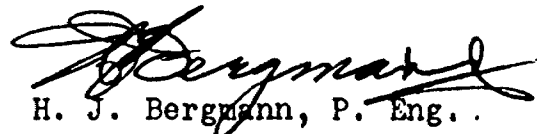
the magnetic anomalies but close correlation with the geology is required to provide a better interpretation. However, there are some short weak conductors in the vicinity of the magnetic anomaly in the southeast portion of the property that may warrant further investigation as the contact zones should be favourable for mineralization.

CONCLUSIONS AND RECOMMENDATIONS

The geophysical surveys outlined a number of conductive zones on both properties with a general east-west trend. Some of these conductors appear to be along the contact of intrusive bodies that could be gabbro or diabase. This is particularly true on the East Group and these contacts could be favourable for mineralization.

Further investigation is warranted and initially should consist of detailed geological examination in the vicinity of the main conductive zones. This could be followed by geochemical testing over the conductive zones to detect potential drill targets. This could be in the form of soil sampling or basal till sampling.

Respectfully submitted,
PROSPECTING GEOPHYSICS LTD.


H. J. Bergmann, P. Eng..

Toronto, Ont.
Aug. 26, 1981.

GEOPHYSICAL TECHNICAL DATA

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



Number of Stations 4160 Number of Readings Electromagnetic 4160
Station interval 100 foot Magnetometer 4404
Profile scale
Contour interval E.M. - Fraser filter values 10
Magnetometer 200 gammas

MAGNETIC

Instrument MF-1 Fluxgate Magnetometer
Accuracy - Scale constant ± 5%
Diurnal correction method Base stations
Base Station check-in interval (hours) 2 hours
Base Station location and value See map

ELECTROMAGNETIC

Instrument Geonics EM-16
Coil configuration
Coil separation
Accuracy ± 1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Approx. 15-25 kHz Cutler, Maine
(specify V.L.F. station)
Parameters measured Vertical in-phase component (tilt angle)
Vertical out-of-phase component (quadrature)

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method Time Domain Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing



A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Subbury Mining Division

I, Silverside Resources Inc. T.1967
 name of Recorded Holder Prospector's Licence

Suite 1101, 10 King St. E. Toronto, Ontario
 Post Office Address

do hereby report the performance of 940 days of Magnetometer Survey
 type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
See Attached List					

SUBBURY
 RECEIVED
 NOV 19 1981
 7,8,9,10,11,12,13,14,15,16

All the work was performed on Mining Claim (s)
 (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
 - For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
 - For Compressed Air or Other Power Driven or Mechanical Equipment
 Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
 - For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
 - For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author: H. J. Bergmann, P. Eng.
 Dates of Survey: June 12 - August 26, 1981
 Instrument: MF-1 Fluxgate Magnetometer
 Total Expenditure: \$12,121.50

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 NOV 23 1981
 RESIDENT GEOLOGIST
 SUBBURY

Date November 16, 1981

H. J. Bergmann
 Signature of Recorded Holder or Agent

The Mining Act
 Certificate Verifying Report of Work

I, H. J. Bergmann
70 Chiswell Crescent, Willowdale, Ontario M2N 6E1
 (Post Office Address)

hereby certify:

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

Dated November 16, 1981

H. J. Bergmann
 H. J. Bergmann

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

LIST OF CLAIMS

MAIN GROUP

DAYS

EAST GROUP

DAYS

S572211 ✓

212 ✓

213 ✓

214 ✓

215 ✓

216 ✓

217 ✓

218 ✓

219 ✓

220 ✓

221 ✓

222 ✓

223 ✓

S572225 ✓

226 ✓

227 ✓

228 ✓

229 ✓

S572231 ✓

232 ✓

233 ✓

234 ✓

235 ✓

236 ✓

237 ✓

S572239 ✓

240 ✓

241 ✓

242 ✓

243 ✓

244 ✓

S572250 ✓

251 ✓

252 ✓

253 ✓

254 ✓

255 ✓

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S551981 ✓

982

983

984

S572536 ✓

537

S575206

207

208

209

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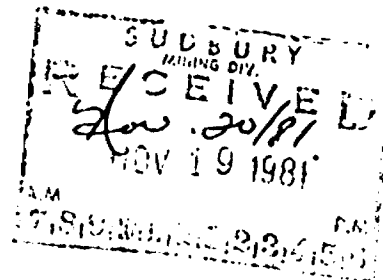
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Ministry of Natural Resources Ontario

DAVIS TWR (M. 748)

File 5551981

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Sudbury Mining Division

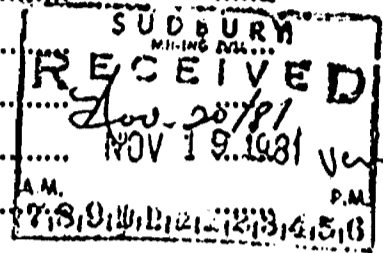
Silverside Resources Inc. T1067 Prospector's Licence

Suite 1101 - 10 King St. E. Toronto, Ontario Post Office Address

do hereby report the performance of 1880 days of Electromagnetic Survey type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Row 1: See attached list.



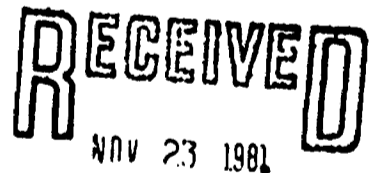
All the work was performed on Mining Claim (s) A11 (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author - H. J. Bergmann, P. Eng.
Dates of Survey - June 12 - August 26, 1981
Instrument- Geonics EM-16
Total Expenditure - \$35,841



RESIDENT GEOLOGIST SUDBURY

Date Nov 16, 1981

Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, H. J. Bergmann

70 Chiswell Crescent, Willowdale, Ontario M2N 6E7 (Post Office Address)

hereby certify:

- 1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed some during and/or after its completion.
2. That the annexed report is true.

Dated Nov 16, 1981

Signature of H. J. Bergmann

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

LIST OF CLAIMS

MAIN GROUP

DAYS

EAST GROUP

DAYS

S572211 40
212 40
213 40
214 40
215 40
216 40
217 40
218 40
219 40
220 40
221 40
222 40
223 40
S572225 40
226 40
227 40
228 40
229 40
S572231 40
232 40
233 40
234 40
235 40
236 40
237 40
S572239 40
240 40
241 40
242 40
243 40
244 40
S572250 40
251 40
252 40
253 40
254 40
255 40

S551981 40
982 40
983 40
984 40
S572536 40
537 40
S575206 40
207 40
208 40
209 40



Ministry of
Natural
Resources

Ontario

1982 11 05

Your file:

Our file: 2.4353

Ministry of Natural Resources
RECEIVED

NOV 5 1982

Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

NORTHEASTERN REGION

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer)
Survey on Mining Claims S 572211 et al in the
Township of Davis

The Geophysical (Electromagnetic and Magnetometer)
Survey assessment work credits as listed with my Notice
of Intent dated September 6, 1982 have been approved
as of the above date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours very truly,

E. P. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

John A. Barr:sc

cc: Silverside Resources Inc
Toronto, Ontario

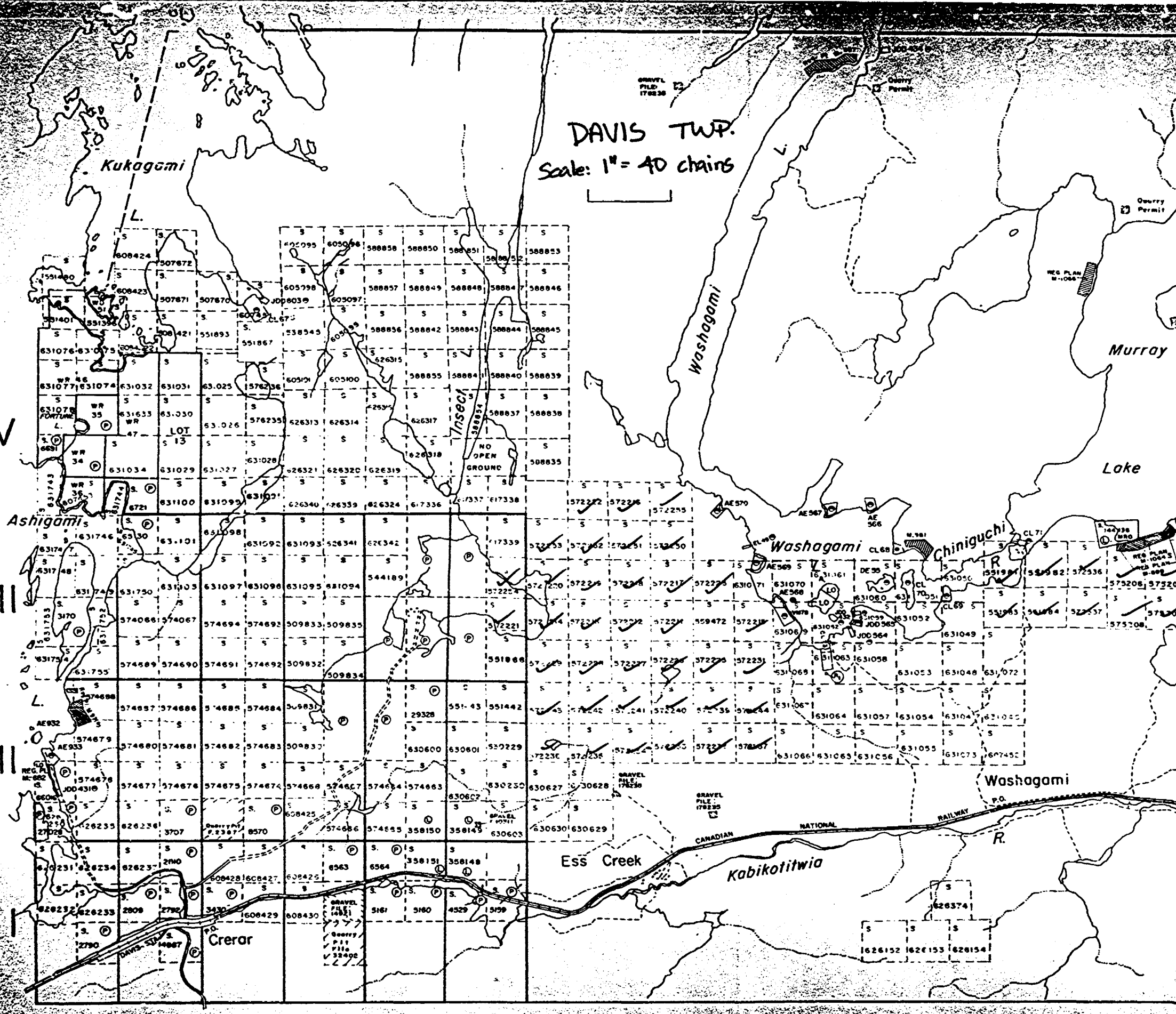
cc: ✓ Resident Geologist
Sudbury, Ontario

DAVIS TWP.
Scale: 1" = 40 chains

IV

III

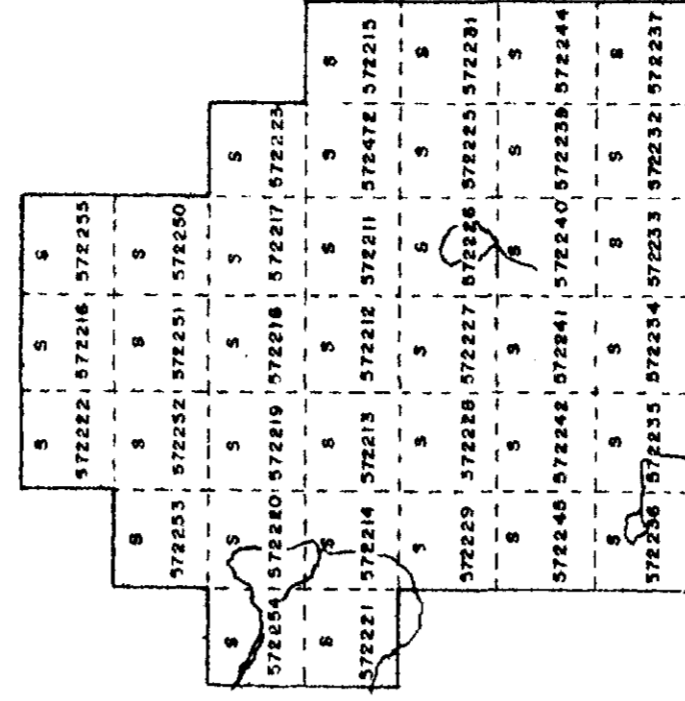
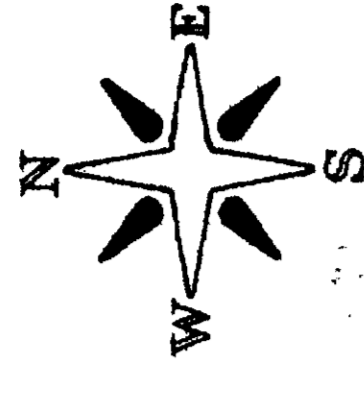
II



FOR ADDITIONAL
INFORMATION

SEE MAPS:

DAVIS-0028-A1 #1-6



CLAIM MAP

LEGEND

MEASUREMENT STATIONS ALONG PICKET LINES
 RELATIVE VALUES OF THE VERTICAL COMPONENT
 FORCE OF THE EARTH'S MAGNETIC FIELD (in Gammas)

MAGNETIC CONTOURS

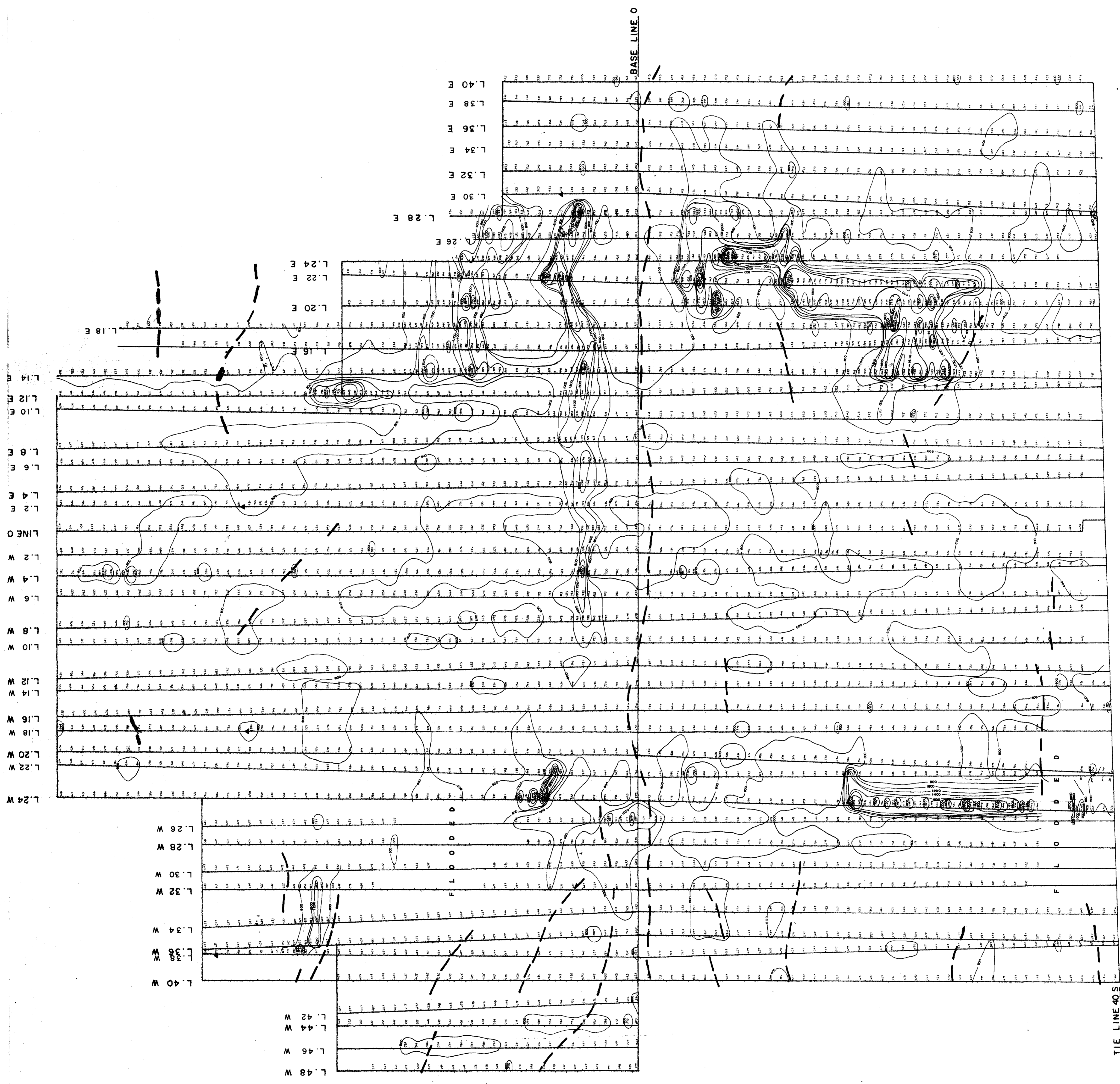
ELECTRICAL CONDUCTOR

BASE STATION

TO GAMMAS

TO GAMMAS

OVER GAMMAS



SIZE OF WORK: MAGNETOMETER SURVEY.

SUBJECT: SILVERSIDE RESOURCES INC

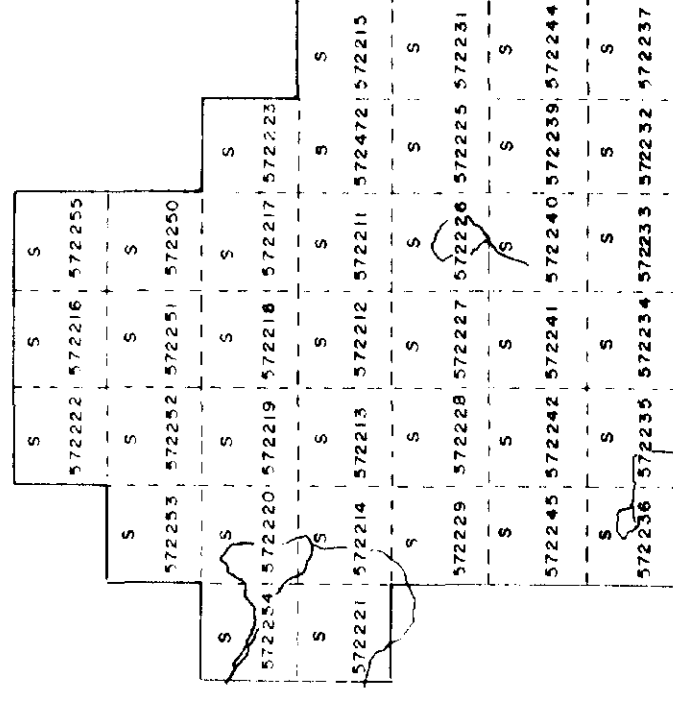
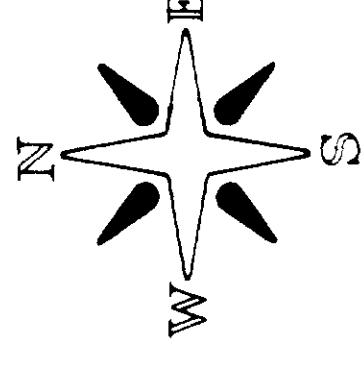
PROJECT: AREA: DAVIS TWP ONT.

SCALE: 1" = 400 FT. DATE: MAY 1981

DRAWN BY: MAP ON SHEET: 2B

PROJECT NO: DAVIS-0028-A1 #1





CLAIM MAP

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- FRASER REDUCTION METHOD USED
- CONTOUR INTERVAL
- ELECTRICAL CONDUCTOR
- INSTRUMENT USED : GEONICS EM - 16
- CLAIM POST
- SWAMP
- ROAD

TYPE OF WORK: ELECTROMAGNETIC SURVEY.

CLIENT: SILVERSIDE RESOURCES INC

PROJECT: DAVIS TWP ONT.

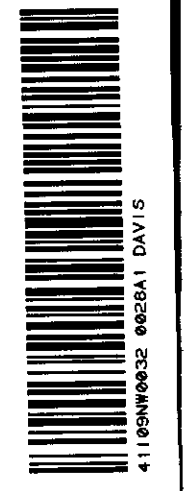
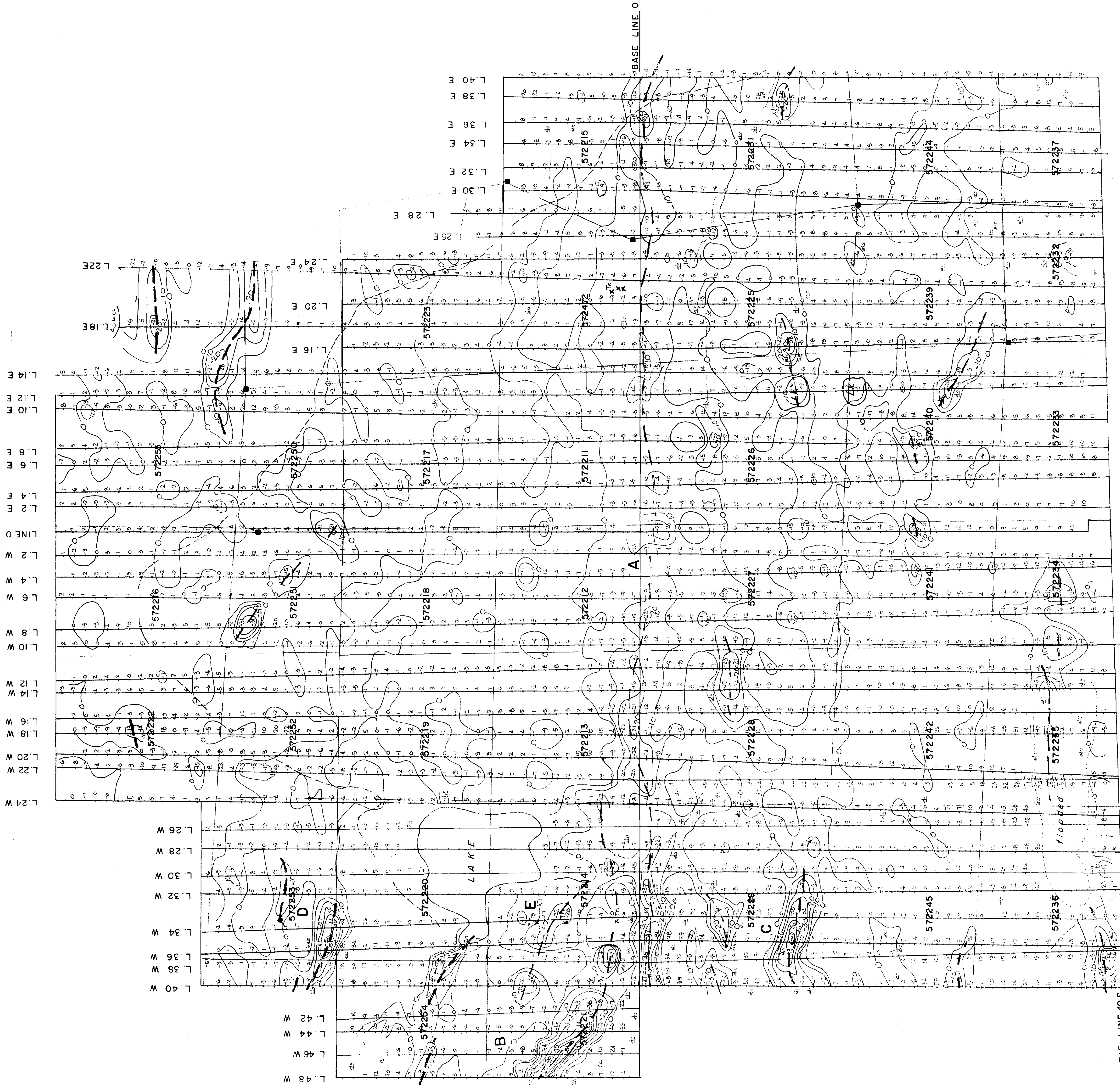
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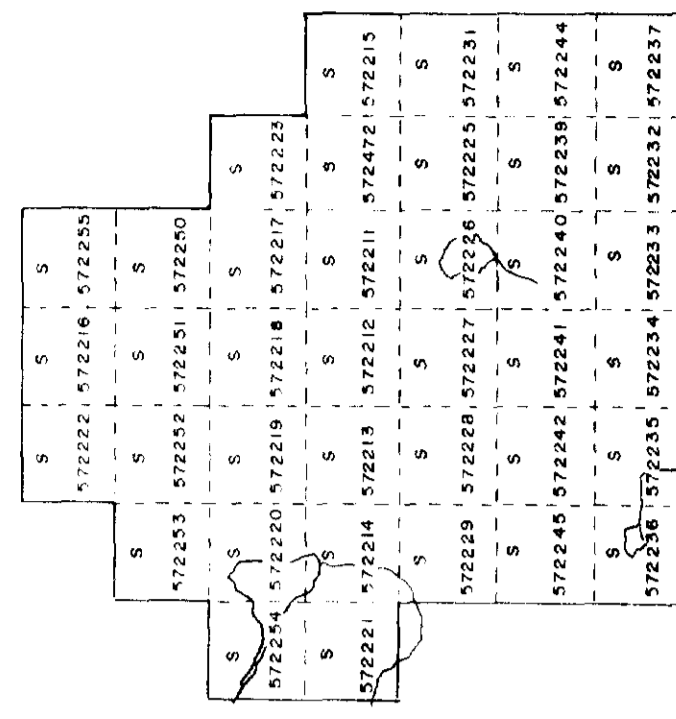
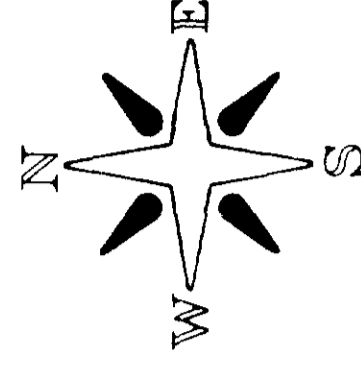
DATE: MAY 1981

DRAWN BY: [Signature]

MAP NO. SHEET: 2

24553

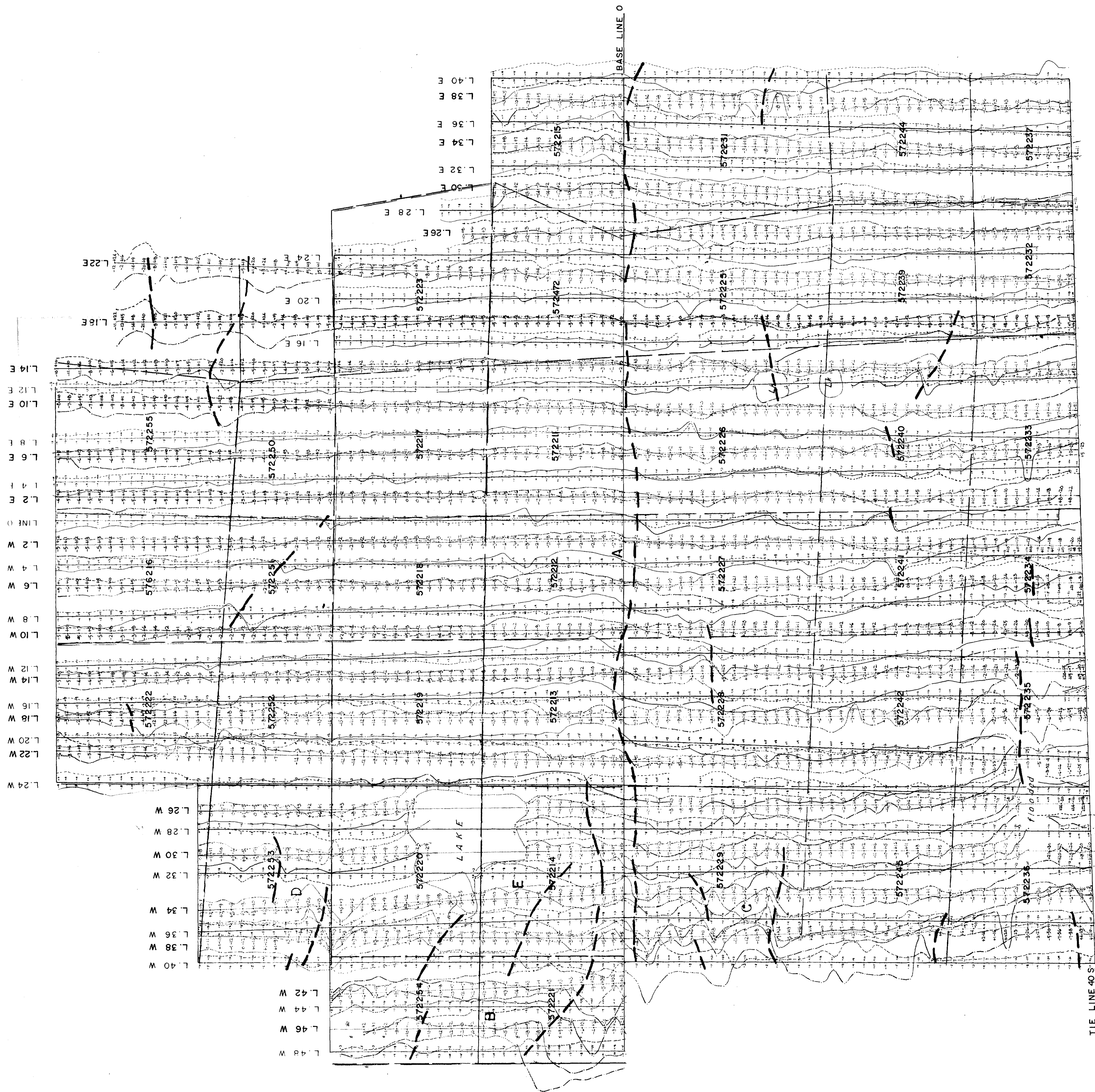




CLAIM MAP

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- ELECTROMAGNETIC READINGS - In Phase Component (%)
- ELECTROMAGNETIC READINGS - Out of Phase Component (%)
- PROFILE - In Phase Component (Scale 1" = 100')
- PROFILE - Out of Phase Component (Scale 1" = 100')
- COIL SEPARATION - Feet
- INSTRUMENT
- ELECTRICAL CONDUCTOR



TYPE OF WORK

SHEET

ELECTROMAGNETIC SURVEY.

SILVERSIDE RESOURCES INC

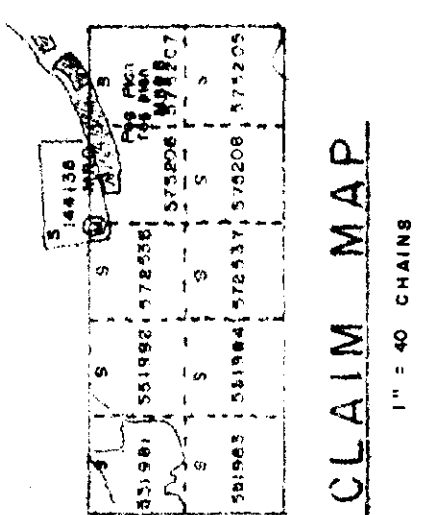
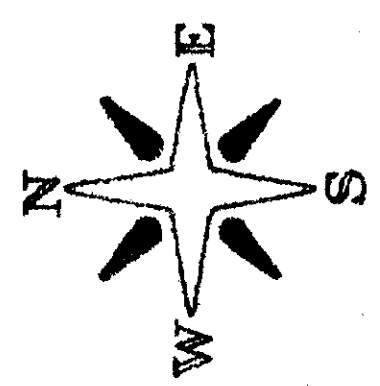
PROJECT: DAVIS TWP ONT.

SCALE: 1" = 400 ft. DATE: MAY 1981

MAP OR SHEET: 2 A

24553





- LEGEND**
- MEASUREMENT STATIONS ALONG PICKET LINES
 - RELATIVE VALUES OF THE VERTICAL COMPONENT FORCE OF THE EARTH'S MAGNETIC FIELD (In Gammas)
 - MAGNETIC CONTOURS
 - BASE STATION
 - ELECTRICAL CONDUCTOR
 - CLAIM POST
 - SWAMP
 - ROAD

TYPE OF WORK: **MAGNETOMETER SURVEY**

CLIENT: **SILVERSIDE RESOURCES INC**

PROJECT: **DAVIS TWP ONT**

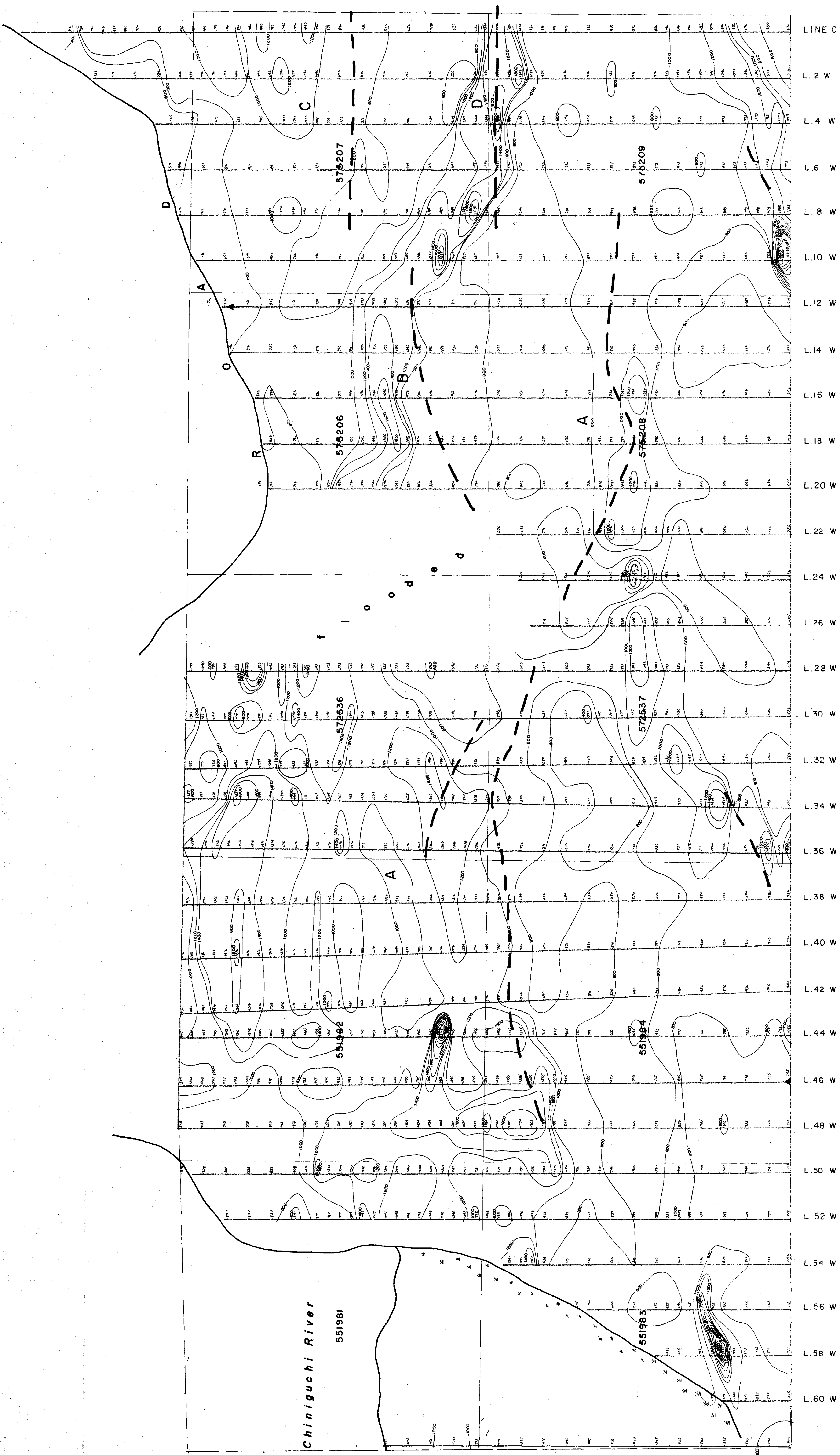
SCALE: 1" = 200 FT.

DATE: **MAY 1981**

BY: *[Signature]*

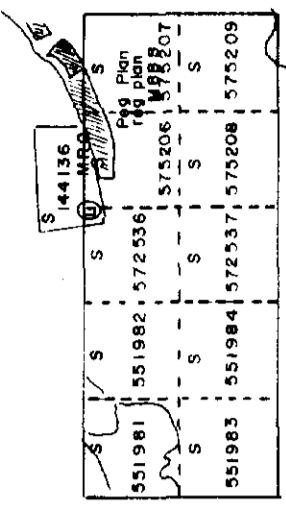
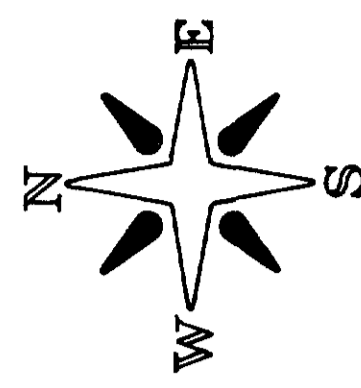
24353

230



LINE O
L. 2 W
L. 4 W
L. 6 W
L. 8 W
L. 10 W
L. 12 W
L. 14 W
L. 16 W
L. 18 W
L. 20 W
L. 22 W
L. 24 W
L. 26 W
L. 28 W
L. 30 W
L. 32 W
L. 34 W
L. 36 W
L. 38 W
L. 40 W
L. 42 W
L. 44 W
L. 46 W
L. 48 W
L. 50 W
L. 52 W
L. 54 W
L. 56 W
L. 58 W
L. 60 W

Chiniguchi River
551981



CLAIM MAP
Scale 1" = 40 Feet

LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
- FRASER REDUCTION METHOD USED
- CONTOUR INTERVAL: 20
- ELECTRICAL CONDUCTOR
- CLAIM POST
- SWAMP
- ROAD

TYPE OF WORK: ELECTROMAGNETIC SURVEY
CLIENT: SILVERSIDE RESOURCES INC
PROJECT: DAVIS TWP ONT
SCALE: 1" = 200 ft.
DATE: MAY 1981
DRAWN BY: [Signature]
MAP SHEET: 1
24553

ELECTROMAGNETIC SURVEY

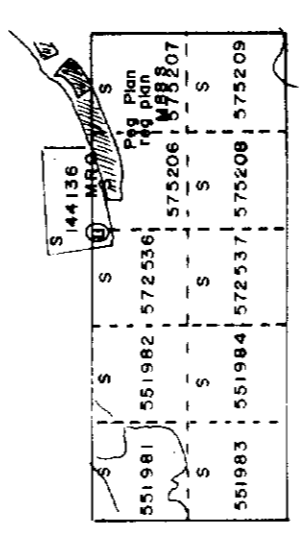
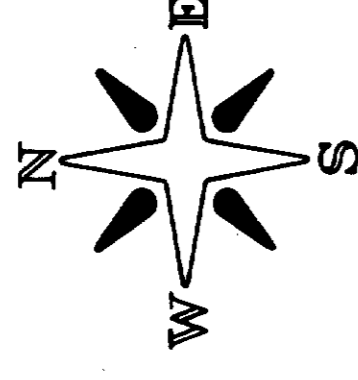
SILVERSIDE RESOURCES INC

DAVIS TWP ONT

24553
[Signature]
DAVIS-0028-A1 #5

Chiniquich River
551981





L E G E N D

- MEASUREMENT STATIONS ALONG PICKET LINES
- ELECTROMAGNETIC READING IN PHASE COMPONENT (%)
- ELECTROMAGNETIC READING OUT OF PHASE COMPONENT (%)
- ELECTRICAL CONDUCTOR
- INSTRUMENT USED : GEONICS EM - 16
- CLAIM POST
- SWAMP
- ROAD
- PROFILE IN PHASE COMPONENT (Scale 1" = 20%)
- PROFILE OUT OF PHASE COMPONENT (Scale 1" = 20%)

ELECTROMAGNETIC SURVEY.

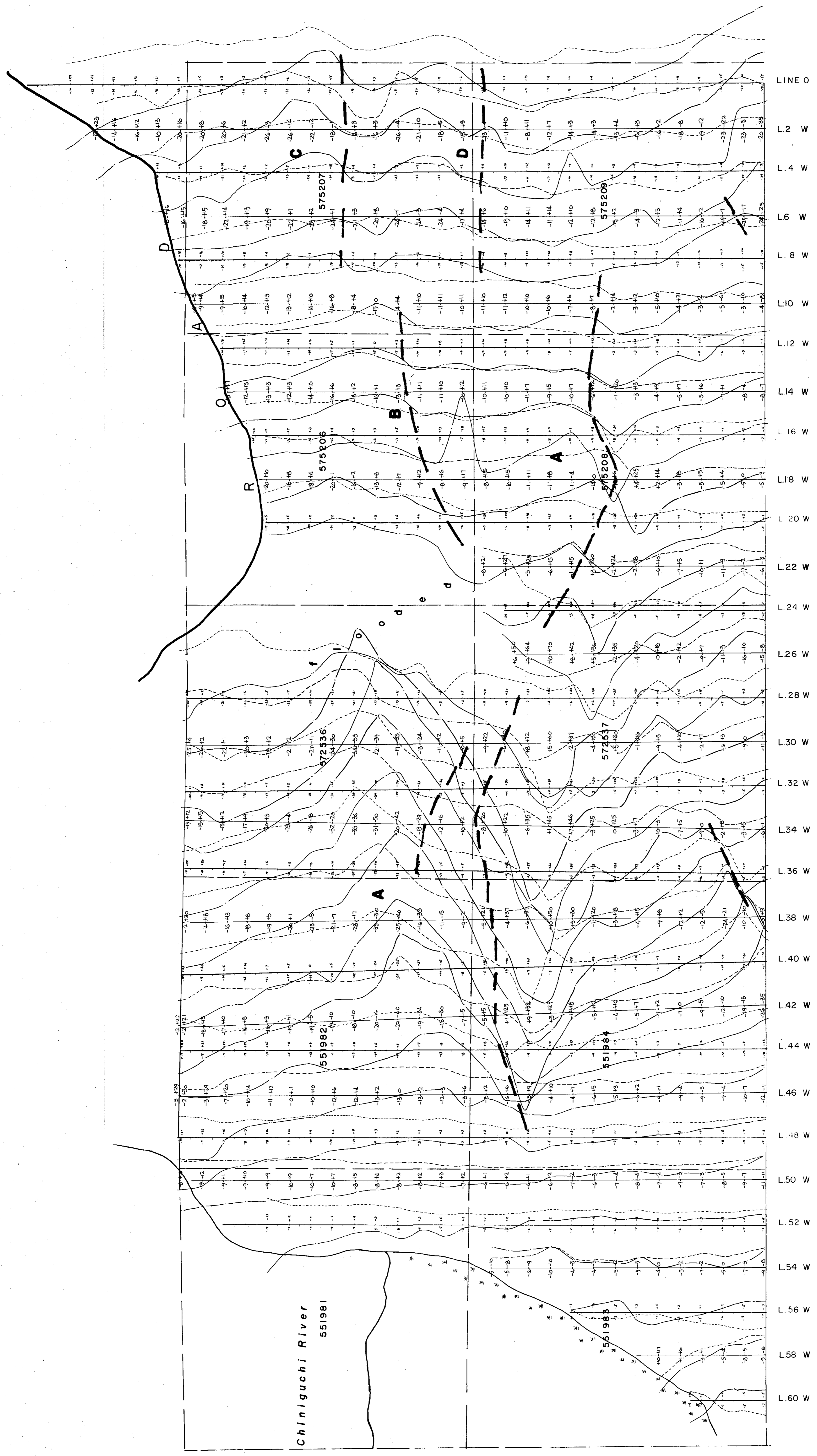
SILVERSIDE RESOURCES INC

DAVIS TWP ONT

DATE: MAY 1981
SCALE: 1" = 200 ft.
SHEET NO. 1A

PROJECT: DAVIS-0018-A1 #6

24353



Chiniguchi River
551981

