Sincorder Companion

Utilities for the
M.C. Miller Sincorder Data Logger

Users Guide

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Overview

SINCORDER COMPANION was written to aid all those who use the M. C. Miller SINCORDER. This program is intended **0NLY** as an aid for the experienced Cathodic Protection practitioner.

SINCORDER COMPANION is designed to help the Corrosion Engineer or Technician with receiving data from the SINCORDER, transferring prompt flies to the SINCORDER, remote operation, formatting data for use with spread sheet programs, and graphing and evaluating close interval survey data. SINCORDER COMPANION is designed using the windows graphical user interface utilizing the mouse pointer, check boxes and speed buttons so that little prior computer knowledge is required. The operation is documented with an on line help system.

System Requirements

The Minimum Requirements are:

100% IBM Compatible 486 or higher PC.
Microsoft Windows 95 or higher.
8MB RAM minimum. 16MB recommended.
Hard Disk drive with 20MB free disk space.
256 color or SVGA video.
Works with any printer supported by Windows 95.

Acknowledgments

Sincorder Companion was developed using Delphi 3 for Windows 95 and NT.

Delphi 3 is Copyright 1997 Borland International Inc.

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SETUP

The program consists of one to four 3.5 " disks depending on how many modules you have licensed.

To install ***Sincorder Companion*** first place disk 1 in your 3.5" drive.

From Windows 95 **select** ***Run*** **from the START menu or** ***Install New Software*** **from the Control Panel.**

Follow the instructions and feed it the disks on request.

This requires about 12 megabytes of disk space to install.

A program group named ***Sincorder Companion*** will be installed in your program manager. You open this group then double click in the appropriate icon to start a program module.

The documentation for the program is on line. Select Help/Contents then click on getting started. At any point in the program pressing F1 will display the appropriate help screen.

Communications

This module has been designed to provide a more effective way to communicate with the SINCORDER through the RS232C Port than with the use of general-purpose communication programs. You may communicate either by modem over the telephone lines or directly by plugging the SINCORDER RS232C cable into the serial port of your personal computer.

The communication module supports receiving data from the SINCORDER, sending data to the SINCORDER and remote operation of the SINCORDER from your PC keyboard.

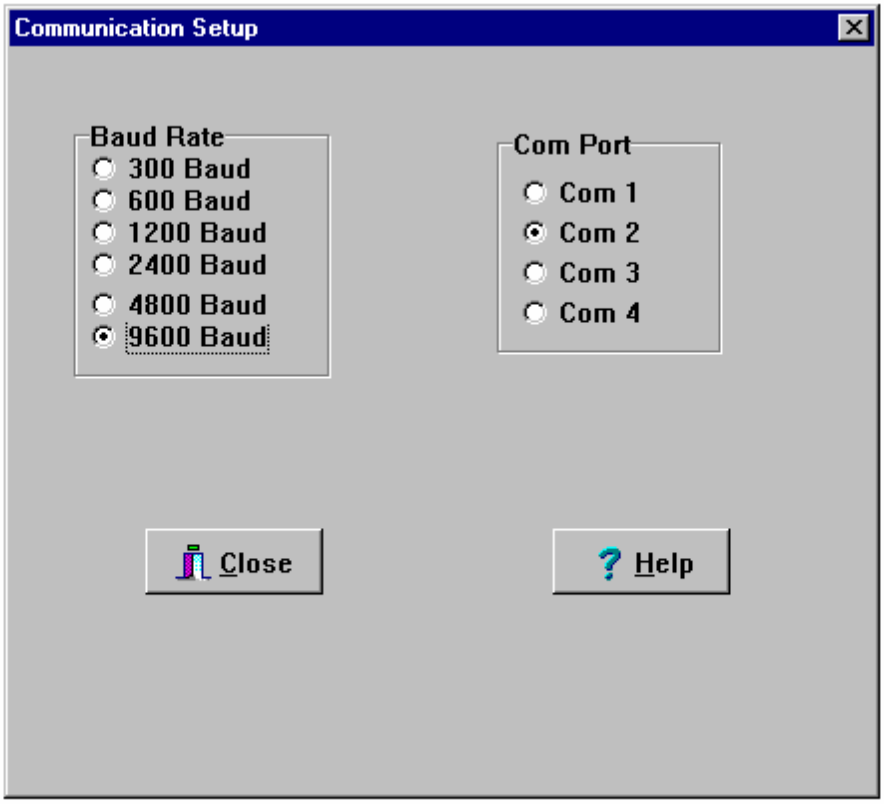
When you select SINCORDER COMMUNICATIONS from the Sincorder Companion program group the COMMUNICATION MODULE FORM with the following screen is displayed:

Click on the appropriate buttons to continue

Communication Setup

Press the

button Main Form and you are presented with this Form:



The **Baud Rate** panel allows you to select from 300, 1200, 2400, 4800, or 9600 BAUD. The default setting is 9600. Click on the radio button for the speed that you want to use. Make sure that the SINCORDER is set at the same Baud Rate. This setting will be saved and will become the new default.

If you have a problem with data dropout try a slower baud rate.

The **Comm. Port** Panel allows you to select COM1, COM2, COM3 or COM4. . Click on the radio button for the port that you want to use. The default setting is COM 2. This setting will be saved and will become the new default.

The following parameters are preset for compatibility with the SINCORDER:

Start bits = 1
Data bits = 8
Stop bits = 1
Parity = None

Press the

button to enter the online Help System

Press the

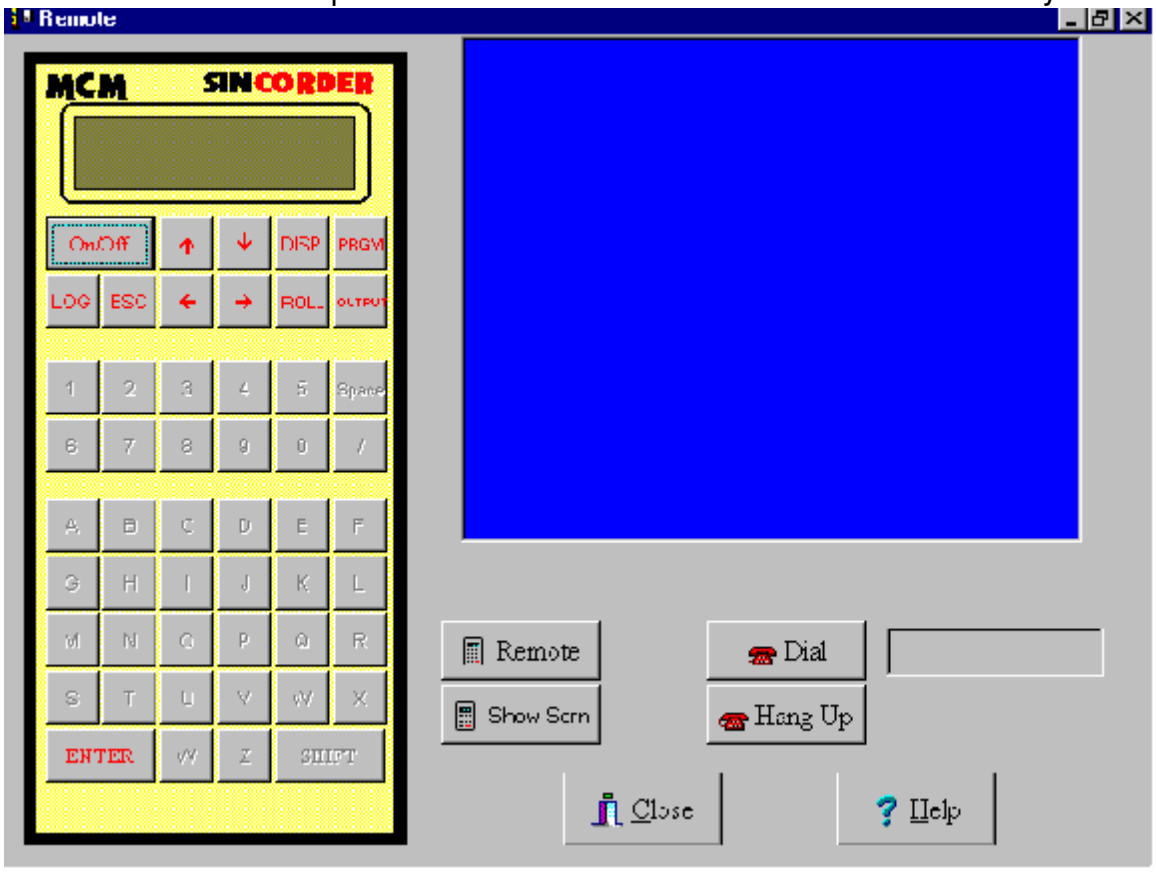
button to return to the Main Form.

Remote Operation

Press the

button on the Main Form and you are presented with the Remote Form.

Press the **Button** to put the SINCORDER in the remote mode. You may now do



Press the

Button to put the SINCORDER in the remote mode. You may now do anything with the remote SINCORDER that you can do from the keyboard.

The Remote Mode takes advantage of the remote capabilities of the SINCORDER. When you enter the Remote Form a representation of the SINCORDER will appear on the screen.

From the Remote Form you can operate a remote SINCORDER as if it is in your lap. A Button on the Screen keyboard has been assigned to each of the

SINCORDER special keys. The SINCORDER screen is displayed in the blue window at the top of the Remote Form.

Press the

button to display the current SINCORDER screen.

If you have the SINCORDER connected to a remote modem you can enter the phone number in the edit box on the lower right portion of the form.

Press the

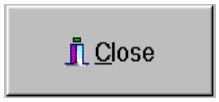
button to dial the number

Press the

button when you are finished

Press the

button to enter the online Help System

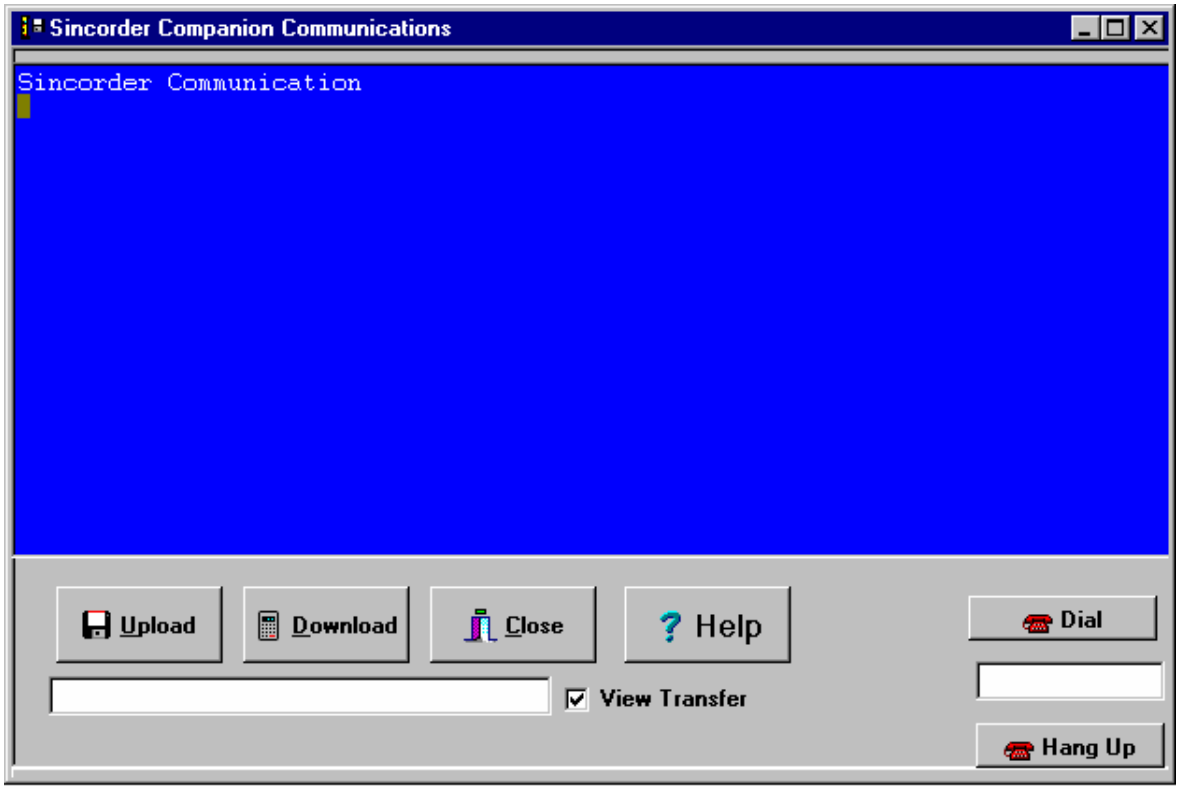
Press the 

button to return to the Main Form.

File Transfer

Press the

File Transfer button on the Main Form and you are presented with the File Transfer Form:



Press the

button and a Save File Dialog will help you choose the file to save the data to. Enter only the primary file name. The program will provide an extension of .SDP This extension is necessary for other modules of SINCORDER COMPANION.

If there is more than one file in the current mode you will be prompted for the file number or All. The file or files in the current mode of the SINCORDER will then be transferred to the disk file that you specified. If there is a mixture in files i.e.: Logger and Single, you will first be prompted to make a selection. Press the RETRY button to select then press OK to continue.

Press the

button and an Open File Dialog will help you choose the file to transfer. The file must be properly formatted (see CHAPTER 4 'DOWNLOADING' in the SINCORDER Manual) and must have the extension SUR. After a couple of questions to make sure this is what you really want to do the program will prompt you to select SINGLE or MULTIPLE Mode. Press the RETRY button to change the setting then press the OK button.
The program will then clear the SINCORDER memory, send the survey data format. NOTE: The Voltage range and scaling must set before the file is sent.

If you have the SINCORDER connected to a remote modem you can enter the phone number in the edit box on the lower right portion of the form.

Press the

button to dial the number

Press the

button when you are finished

Uncheck the **View Transfer** box to speed the file transfer.

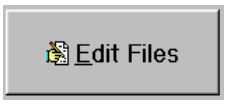
Press the

button to enter the online Help System

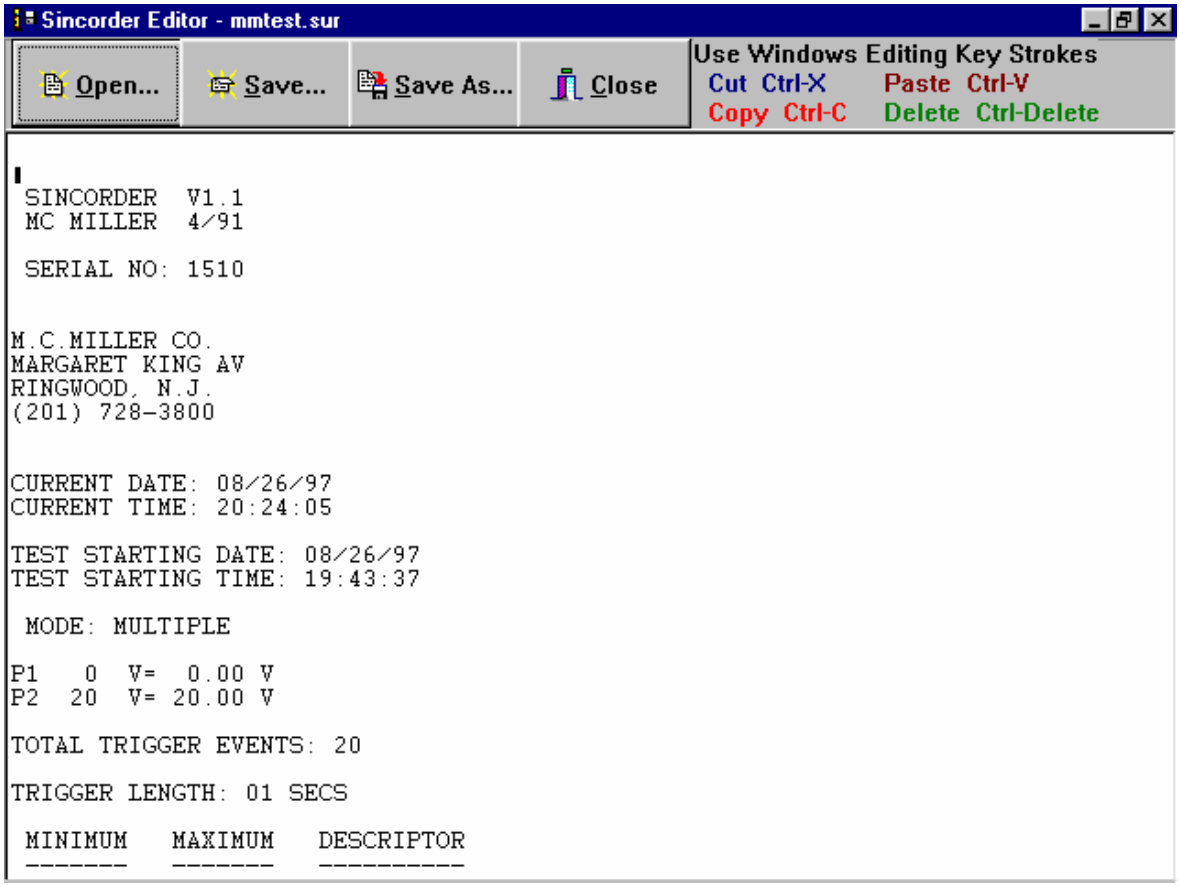
Press the

button to return to the Main Form.

EDIT FILES

Pressing the 

button will take you to a simple text editor that will let you view or edit the SINCORDER Download Files and the Survey Route (upload) Files.



About

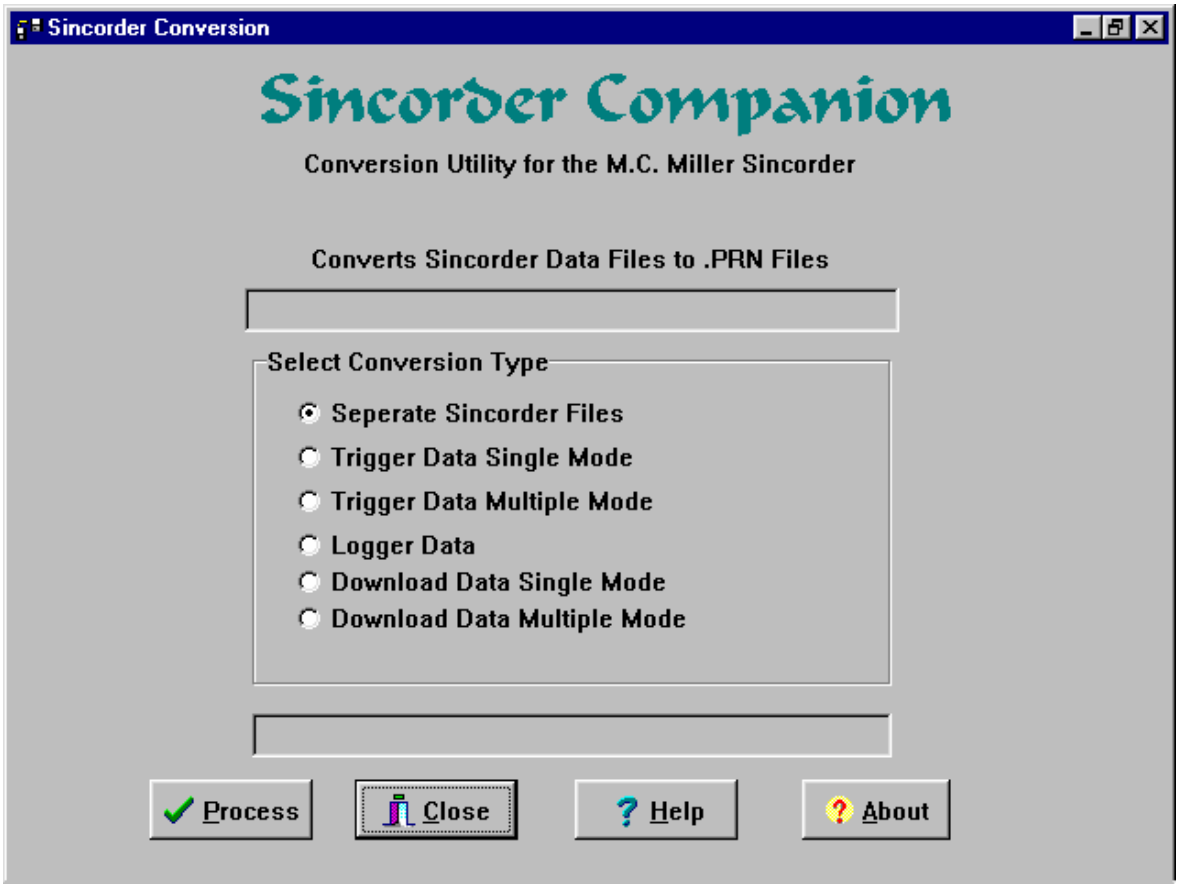
Pushing the

button displays the About Box that contains the version and copyright information

Sincorder File Conversion

This module is designed to convert the SINCORDER ASCII output to a format that can be loaded directly into a spreadsheet program such as LOTUS 123, Symphony and others that will accept the standard comma delineated ASCII file input. This module places the header, text, and DESCRIPTORS in quotes" " and moves the DESCRIPTORS to the right of the data. You can then import the SINCORDER DATA into the spreadsheet. In Lotus 123 you would use the following commands. / File Import Numbers Filename.PRT. Please refer to your application program documentation for details on importing ASCII Files.

When you enter the Conversion Module you will be presented with the following screen:



Click on the type of conversion you desire from the selection panel.

SEPARATE SINCORDER FILES

If you had more than one file in the SINCORDER you can use this option to separate them into individual files. Select this option and the program will prompt you to enter the name of the source file. The file must have the extension .SDR. The SINCORDER COMPANION Communication Receive function writes all files with the .SDP extension.
You are then prompted for the output file name. This file will also have an extension of .SDR. The output prompt will be repeated until all files have been separated. The original file will remain intact for further processing if necessary.

NOTE: DO NOT name an output file the same as the input file or an Exception will occur arid you may LOSE your data (FOREVER). If the filename is less than eight characters long a number 0-9 will be appended to help prevent this from happening.

Logger Files
If the Separate utility is used on a LOGGER tile a different result is obtained. . A minimum of two files will be created. The first will be the Header Data, i.e.

MC MILLER SINCORDER
VERSION 1.0 11/86

SERIAL NUMBER: 1199

Etc.

Each additional file will be the data between page breaks.

You can then use the Logger Data Conversion on each file and then import them into a spreadsheet where you want them. You can also use the DOS Command

COPY filel.prn + file2.prn + file3.prn + file4.prn filename.prn to recombine the files.

TRIGGER DATA SINGLE MODE

This option converts a single mode SINCORDER file to be imported into a spreadsheet as a standard ASCII file. The program prompts for the input file name and then writes an output file with the .PRN extension.

TRIGGER DATA MULTIPLE MODE

This option converts a multiple mode SINCORDER file to be imported into a spreadsheet as a standard ASCII file. The program prompts for the input file name and then writes an output file with the .PRN extension.

LOGGER DATA

This option converts a logger mode SINCORDER file to be imported into a spreadsheet as a standard ASCII file. The program prompts for the input file name and then writes an output file with the .PRN extension.

It may be useful to separate the file before it is converted.

DOWNLOAD DATA SINGLE MODE

This option converts a Single Mode SINCORDER Download Data file to be imported into a spreadsheet as a standard ASCII file. The program prompts for the input file name and then writes an output file with the .PRN extension.

DOWNLOAD DATA MULT MODE

This option converts a Multiple Mode SINCORDER Download Data file to be imported into a spreadsheet as a standard ASCII file. The program prompts for the input file name and then writes an output file with the .PRN extension.

Press the

button and an Open File Dialog will help you choose the file to process.

Pushing the

button displays the About Box that contains the version and copyright information

Press the

button to enter the online Help System

Press the

button to return to the Main Form.

Interrupted Close Interval Survey

This module was designed to process Interrupted Close Interval Survey data that has been recorded with the SINCORDER. The data can then be presented as a printed graph or a video graph. A data list with on potentials, off potentials, survey stations, and remarks can be generated. An exception table can be printed to show off readings that fall above or below a specified value. The following conventions must be followed in order for this module to function properly.
MODE: MULTIPLE

INTERVAL SPACING MUST BE ONE OF THE FOLLOWING:
2 1/2, 5, 10, 20, 50, OR 100 FOOT (1,2,3,5,10 METRES)

ENTER a flag as a DESCRIPTOR every 100 FT, (30,50,60,75 or 100 METRES) using symbols /, /f or /F to indicate a flag.

ENTER a station update as a DESCRIPTOR using the symbol /M followed by the new station number. ie. /M 105+21. When the program encounters this, it will start renumbering the output at this (105+21) new station number.

ENTER a jump update as a DESCRIPTOR using the symbol /J followed by the number of feet to be jumped. ie. /J 100. When the program encounters this, it will add this amount (100 feet) to the previous station number.

NOTE: Do not use these symbols and letters for any other purpose.

When you select **MMCIS** from the Sincorder Companion program group the Interrupted Close Interval Survey Module with the following screen is displayed:

Click on the appropriate buttons to continue

SINCORDER System Settings

Press the

button and you will be presented with the following screen. Any changes made on this form are saved and become the default.

Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

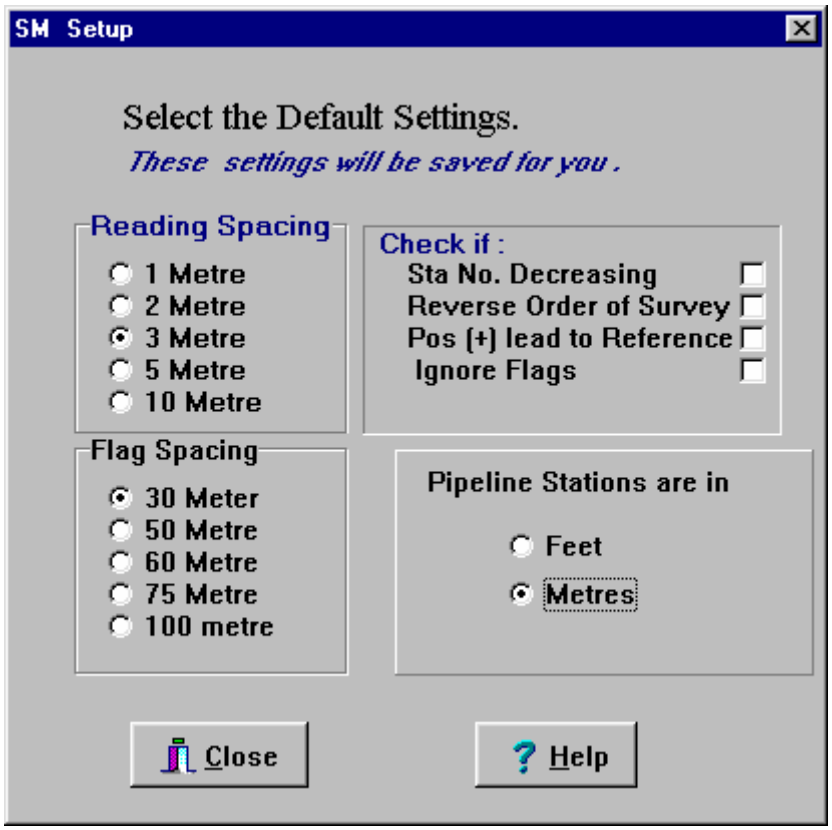
Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough, or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

If you select **Pipeline Stations are in Metres** the form will change to the following:



Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the box in the **Flag Spacing** panel that corresponds to the spacing at which the flags were entered.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough, or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

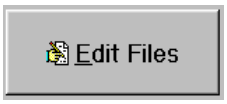
Press the

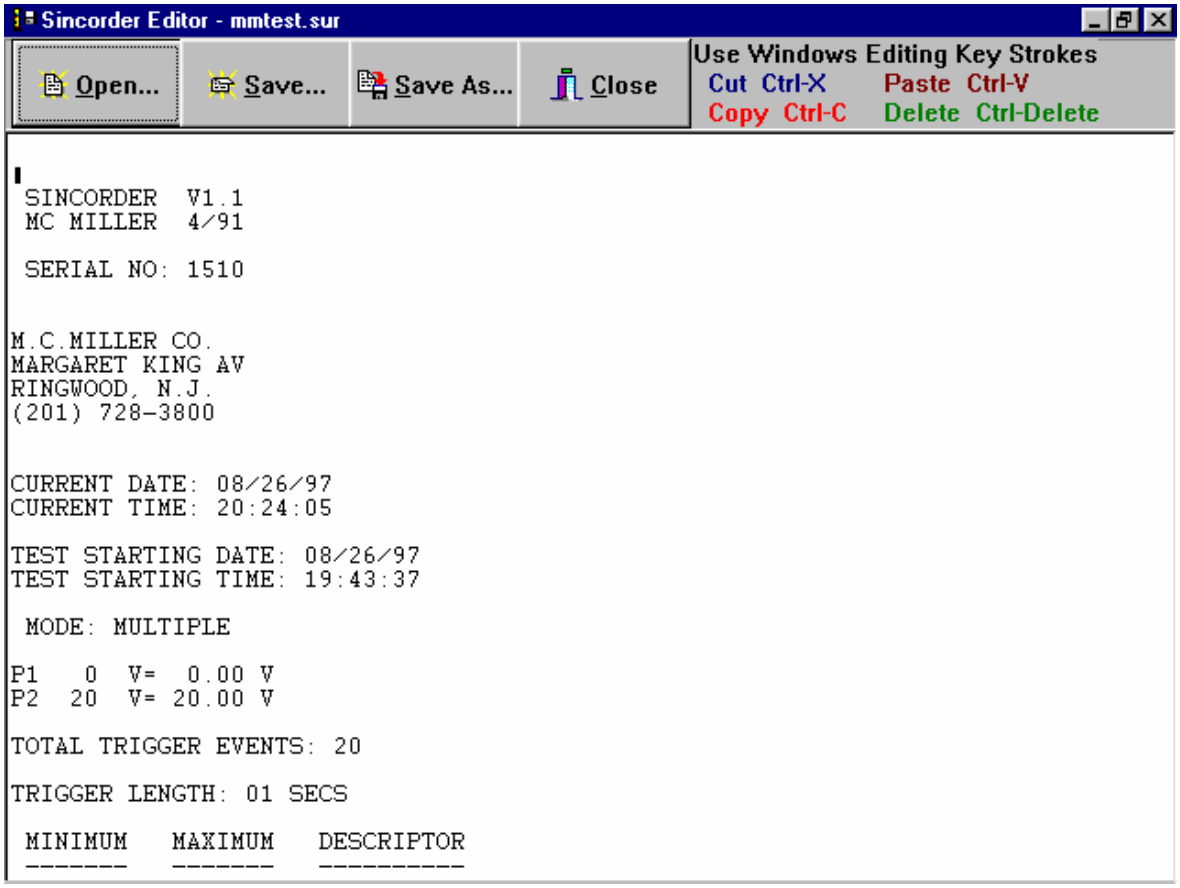
button to enter the online Help System

Press the

button to return to the Main Form.

EDIT FILES

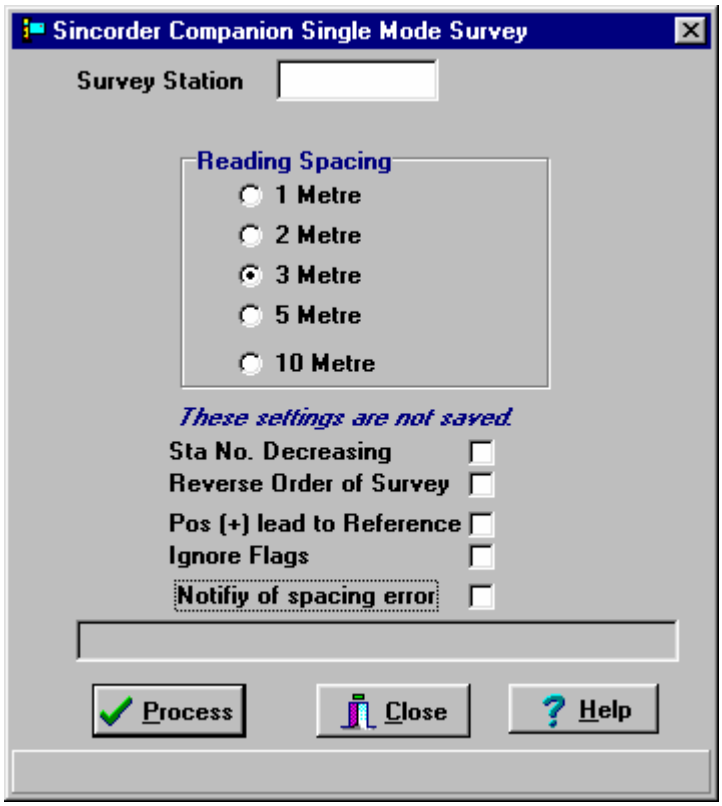
Pressing the  button will take you to a simple text editor that will let you view or edit the SINCORDER Download Files and the Survey Route (upload) Files.



Process SINCORDER Data

Press the

button on the Main Form and you are presented with the Process Form:



Enter the starting **Survey Station** of the survey in the edit box at the top of the form..

Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough, or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

If the **Notify of Spacing Error** box is checked processing will pause and an error message will be displayed each time a spacing error is encountered.

The Status of the operation is displayed in the text box at the bottom of the form.

Press the

button and an Open File Dialog will help you choose the file to process.

Press the

button to enter the online Help System

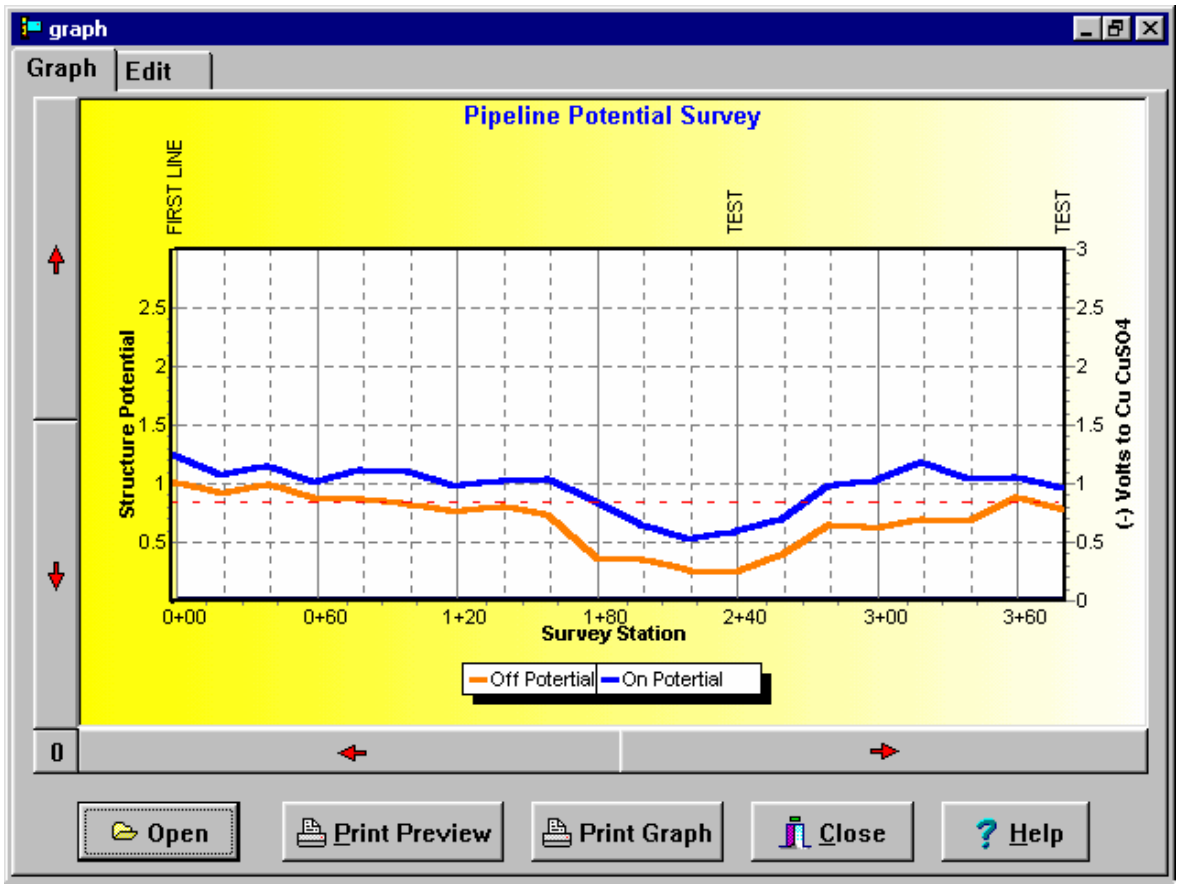
Press the

button to return to the Main Form.

Graphs

Press the

button and the following form will be presented.

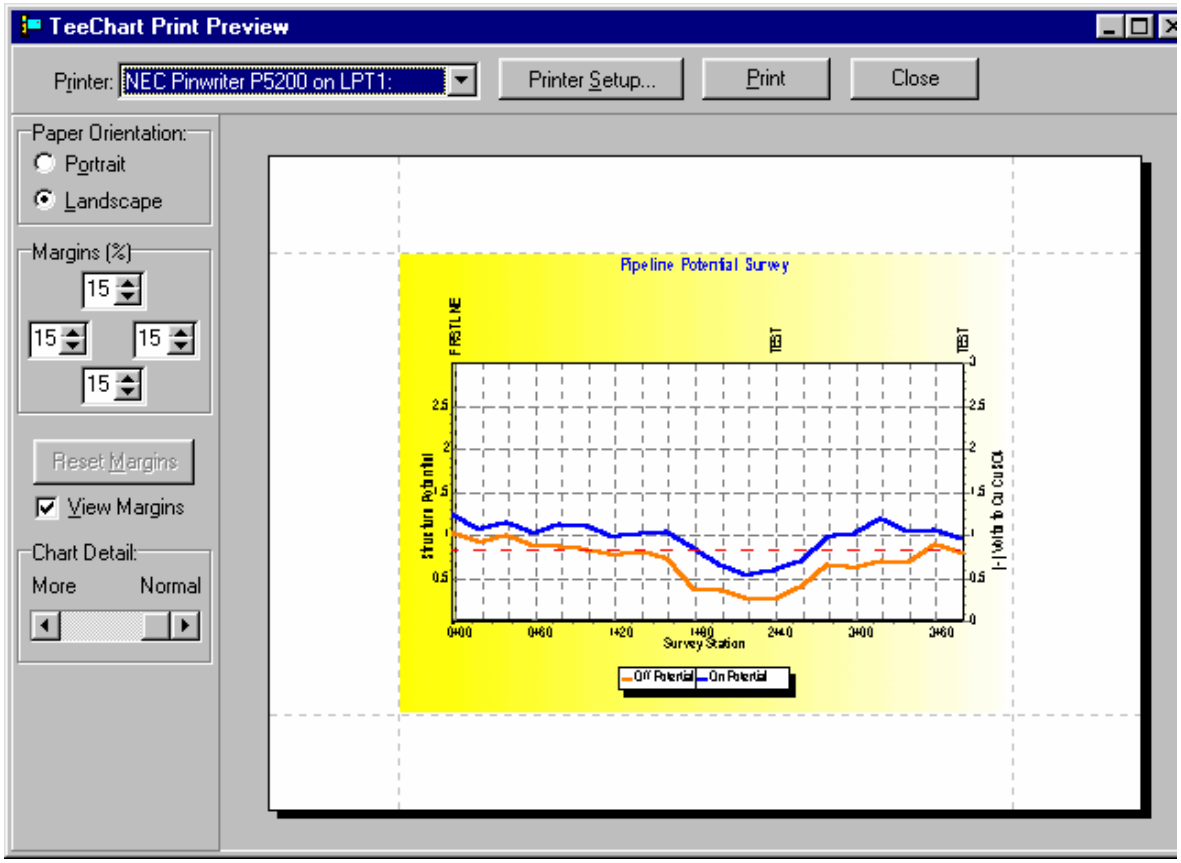


Press the

button and an Open File Dialog will help you choose the file to view.

Press the

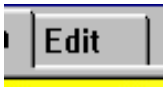
button and the Print Preview Form will appear.



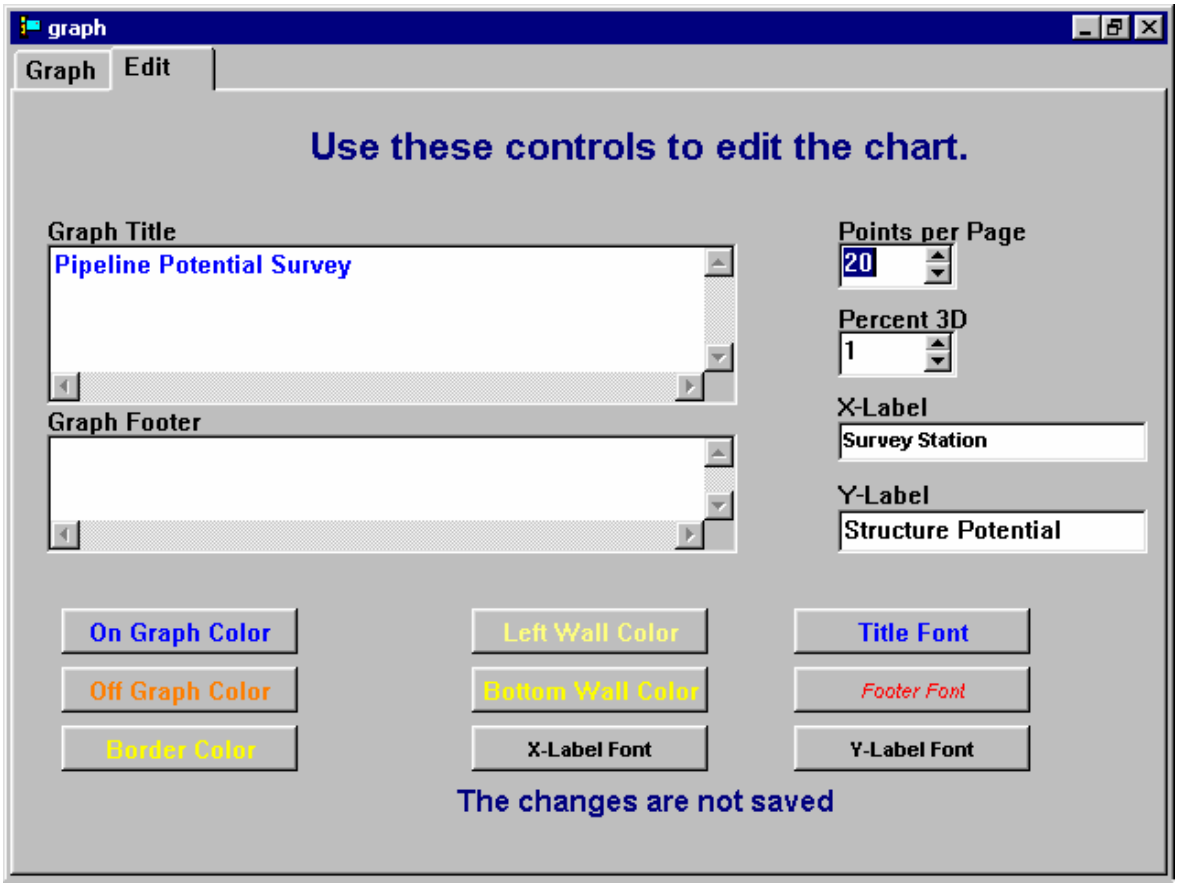
This form is used to alter the way the graph will be printed. You can change the margins, printer setup and paper orientation. Press the **Print** button to print the current page.

Press the

button to print the entire graph.

Click on the 

tab to switch to the graph setup up form.

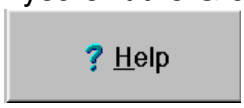


This form allows you to edit the Graph Title, add a Graph Footer, Edit the X-Label and the Y-Label.

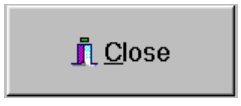
You can also change the Number of points per page and the percent of 3D display.

Fonts and colors can also be changed for your taste.

These changes apply to the current session only. The chart will return to the default when you exit the Graph Form.

Press the 

button to enter the online Help System

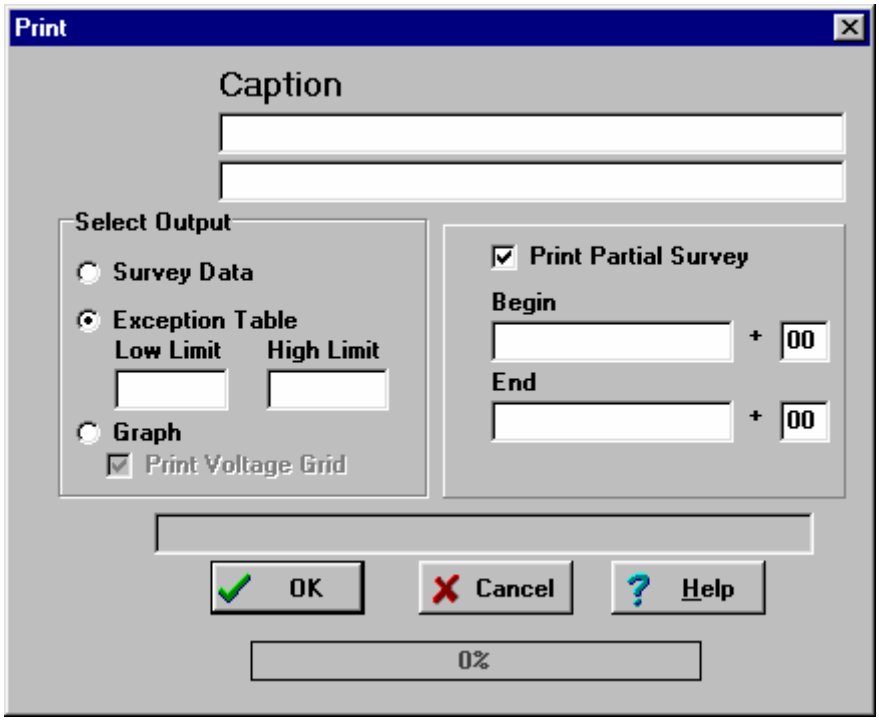
Press the 

button to return to the Main Form.

Reports

Press the

button and the following form will be presented.



Caption
Enter the Report Caption in these Edit Boxes. This might be the Line name and the Date Surveyed. Any information entered here will be printed on each page of the output.

Select Output
Survey Data-This option prints a formatted listing of the survey data. The header data from the SINCORDER will be printed on the first page of this report.

Exception Table- This option will print an Exception Table from the data. When you enter this section you will be prompted for the maximum acceptable off potential, and minimum acceptable off potential. A formatted listing will then be printed.

The header data from the SINCORDER will be printed on the first page of this report.

Print Partial Survey- This section prints only a portion of the selected report. You must enter the beginning and ending survey station numbers.

Press the

button and an Open File Dialog will help you choose the file to process.

Press the

button to enter the online Help System

Press the

button to return to the main form.

From the Main Form

Pushing the

button displays the About Box that contains the version and copyright information

Press the

button to enter the online Help System

Press the

button to return to Exit to the Desktop.

Close Interval Survey

This module was designed to process Close Interval Survey data that has been recorded with the SINCORDER. The data can then be presented as a printed graph or a video graph. A data list with potentials, survey stations, and remarks can be generated. An exception table can be printed to show readings that fall above or below a specified value. The following conventions must be followed in order for this module to function properly.
MODE : SINGLE

INTERVAL SPACING MUST BE ONE OF THE FOLLOWING:
2 1/2, 5, 10, 20, 50, OR 100 FOOT (1,2,3,5,10 METRES)

ENTER a flag as a DESCRIPTOR every 100 FT, (30,50,60,75 or 100 METRES) using symbols /, /f or /F to indicate a flag.

ENTER a station update as a DESCRIPTOR using the symbol /M followed by the new station number. ie. /M 105+21. When the program encounters this, it will start renumbering the output at this (105+21) new station number.

ENTER a jump update as a DESCRIPTOR using the symbol /J followed by the number of feet to be jumped. ie. /J 100. When the program encounters this, it will add this amount (100 feet) to the previous station number.

NOTE: Do not use these symbols and letters for any other purpose.

When you select **SMCIS** from the Sincorder Companion program group the Close Interval Survey Module with the following screen is displayed:

Click on the appropriate buttons to continue

SINCORDER System Settings

Press the

button and you will be presented with the following screen. Any changes made on this form are saved and become the default.

Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

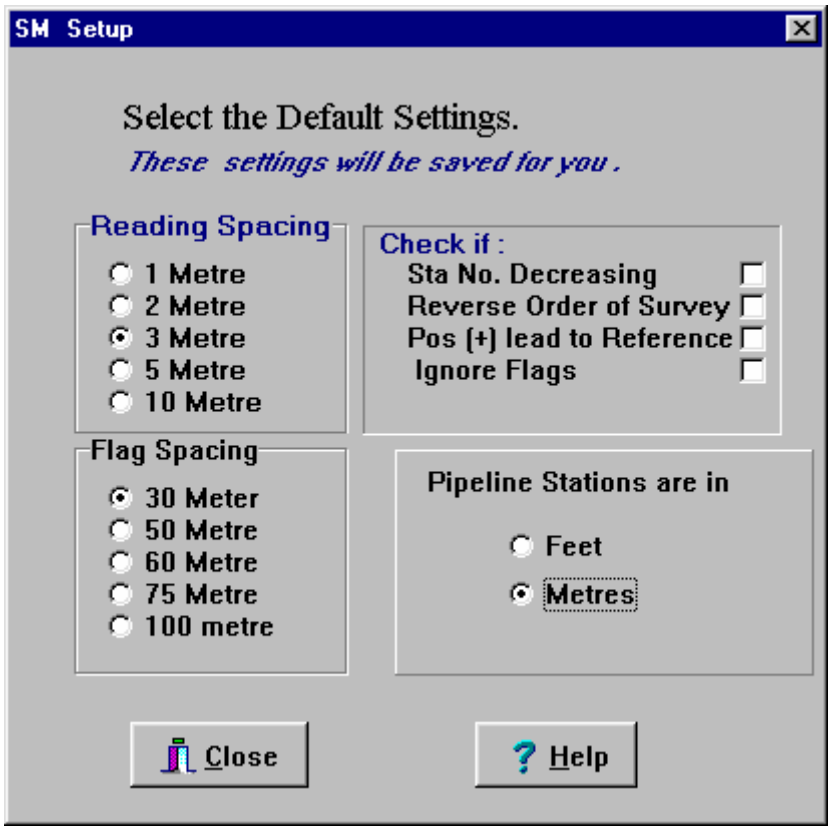
Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough, or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

If you select **Pipeline Stations are in Metres** the form will change to the following:



Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the box in the **Flag Spacing** panel that corresponds to the spacing at which the flags were entered.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

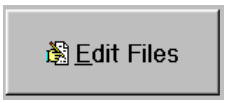
Press the

button to enter the online Help System

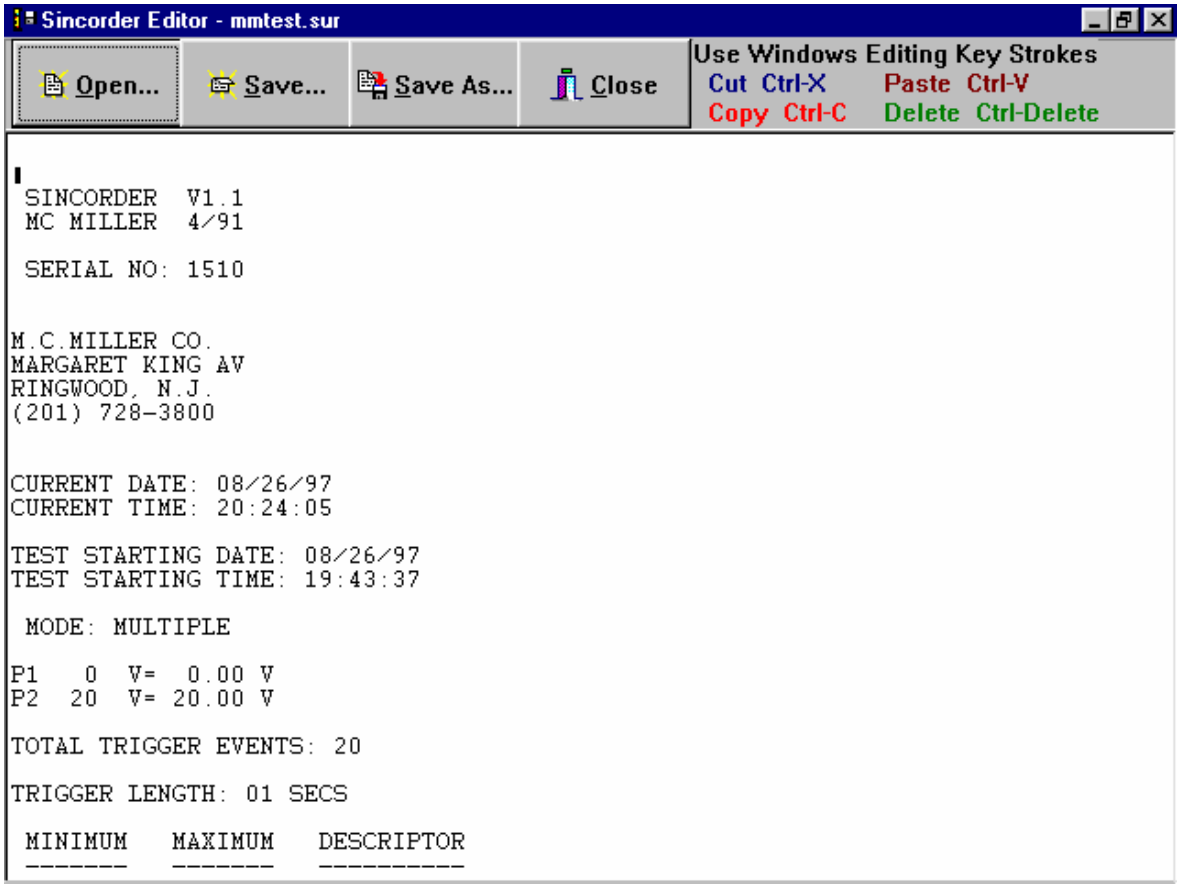
Press the

button to return to the Main Form.

EDIT FILES

Pressing the 

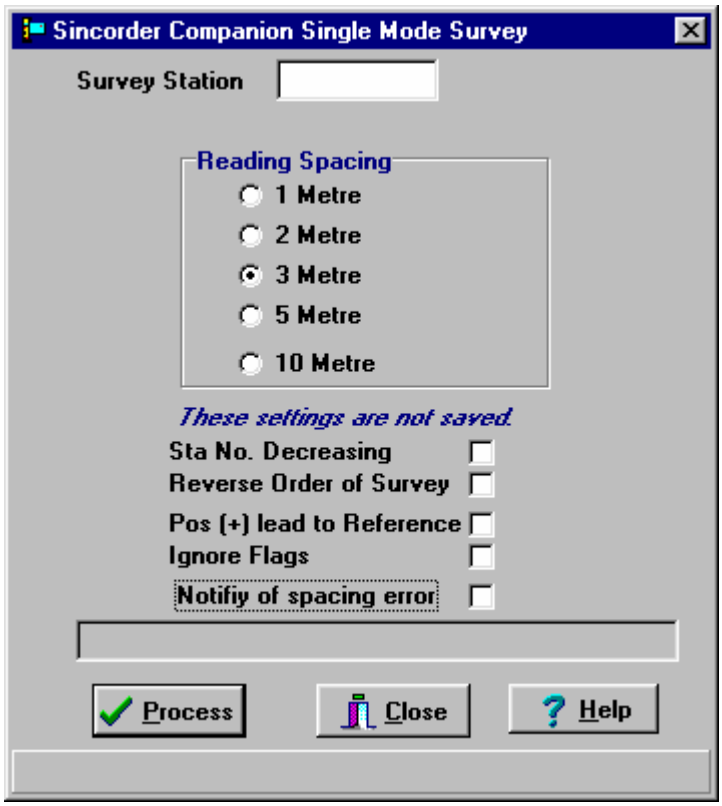
button will take you to a simple text editor that will let you view or edit the SINCORDER Download Files and the Survey Route (upload) Files.



Process SINCORDER Data

Press the

button on the Main Form and you are presented with the Process Form:



Enter the starting **Survey Station** of the survey in the edit box at the top of the form..

Check the box in the **Reading Spacing** panel that corresponds to the spacing at which the readings were taken.

Check the **Sta No. Decreasing** box if the survey was run with decreasing survey stations.

Check the **Reverse Order of Survey** box to reverse the order of the survey.

Check the **Pos Lead to Reference** box if the positive lead was connected to the reference electrode and the negative lead was connected to the structure.

If you select the **Ignore Flags** option the data will be processed as is and any errors in spacing will carry over to the output.

If you do NOT check this box the flag spacing will be compared against the number of readings between flags and readings will be deleted if there are too many. An average of the previous few readings will be inserted if there are not enough, or a flag inserted if one was left out. Every effort should be made in the field to enter the flag symbol at the proper place as such editing DECREASES the validity of the survey.

If the **Notify of Spacing Error** box is checked processing will pause and an error message will be displayed each time a spacing error is encountered.

The Status of the operation is displayed in the text box at the bottom of the form.

Press the

button and an Open File Dialog will help you choose the file to process.

Press the

button to enter the online Help System

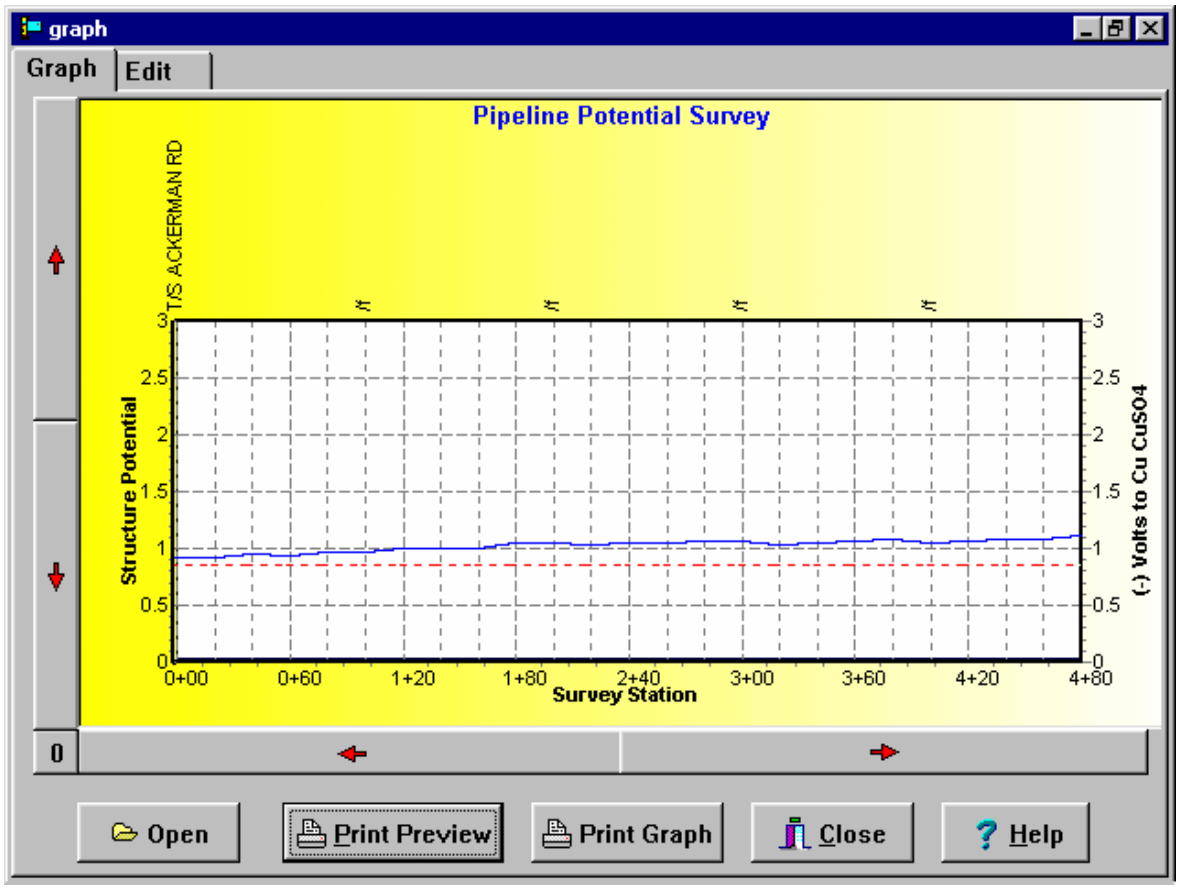
Press the

button to return to the Main Form.

Graphs

Press the

button and the following form will be presented.

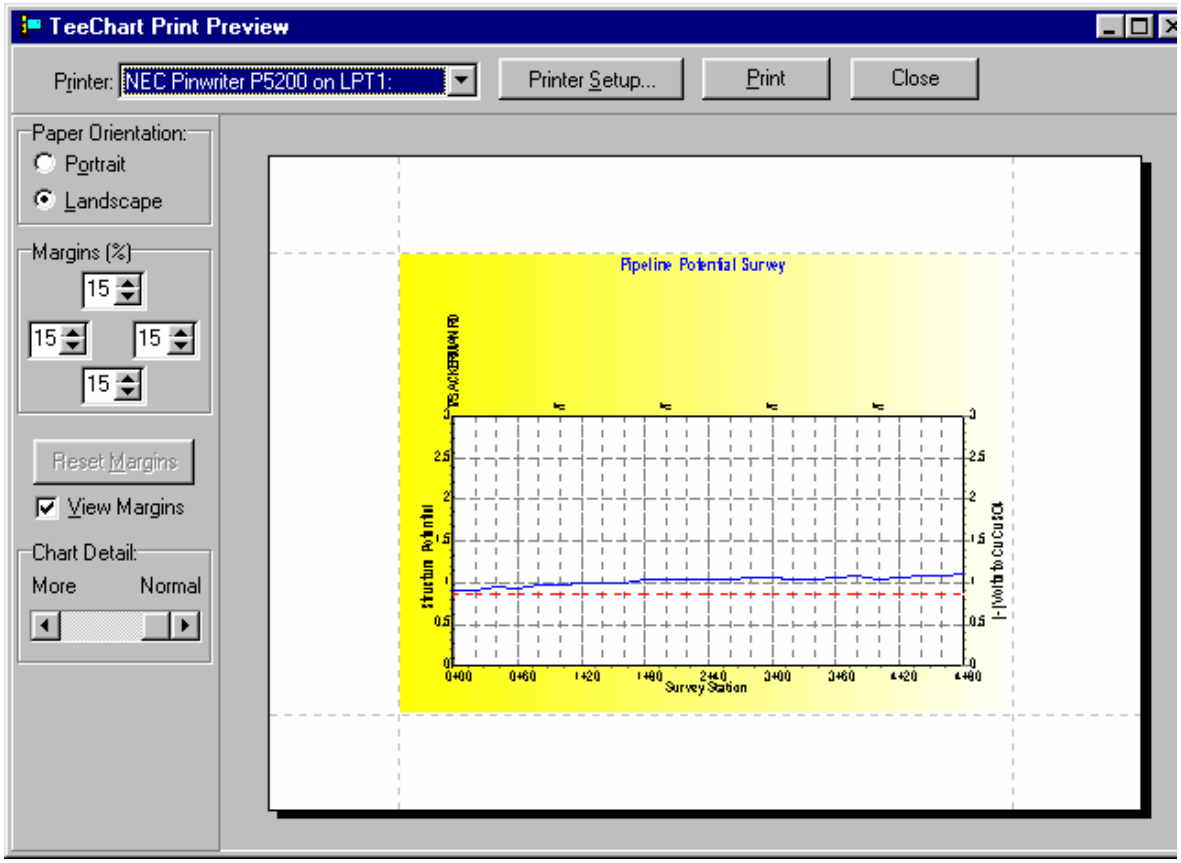


Press the

button and an Open File Dialog will help you choose the file to view.

Press the

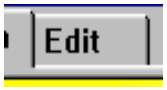
button and the Print Preview Form will appear.



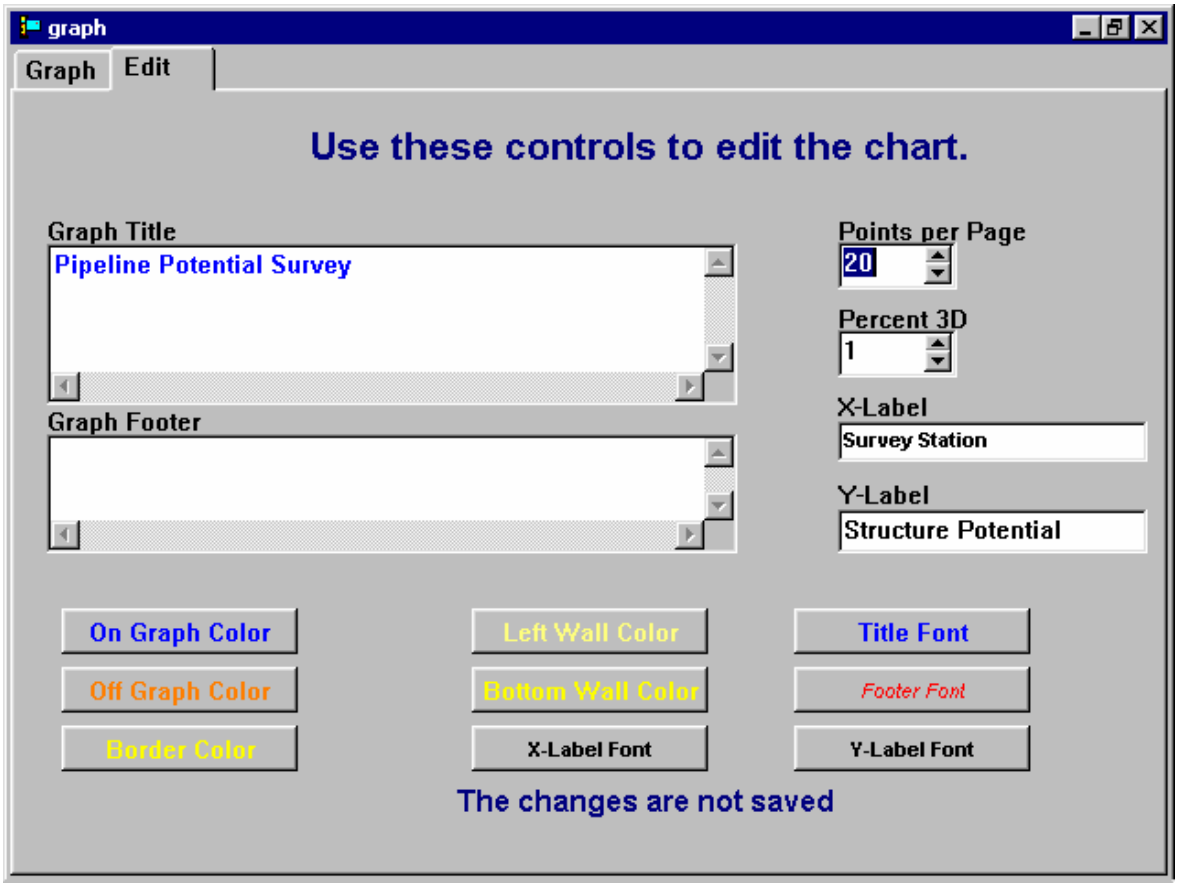
This form is used to alter the way the graph will be printed. You can change the margins, printer setup and paper orientation. Press the **Print** button to print the current page.

Press the

button to print the entire graph.

Click on the 

tab to switch to the graph setup up form.



This form allows you to edit the Graph Title, add a Graph Footer, Edit the X-Label and the Y-Label.

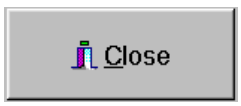
You can also change the Number of points per page and the percent of 3D display.

Fonts and colors can also be changed for your taste.

These changes apply to the current session only. The chart will return to the default when you exit the Graph Form.

Press the

button to enter the online Help System

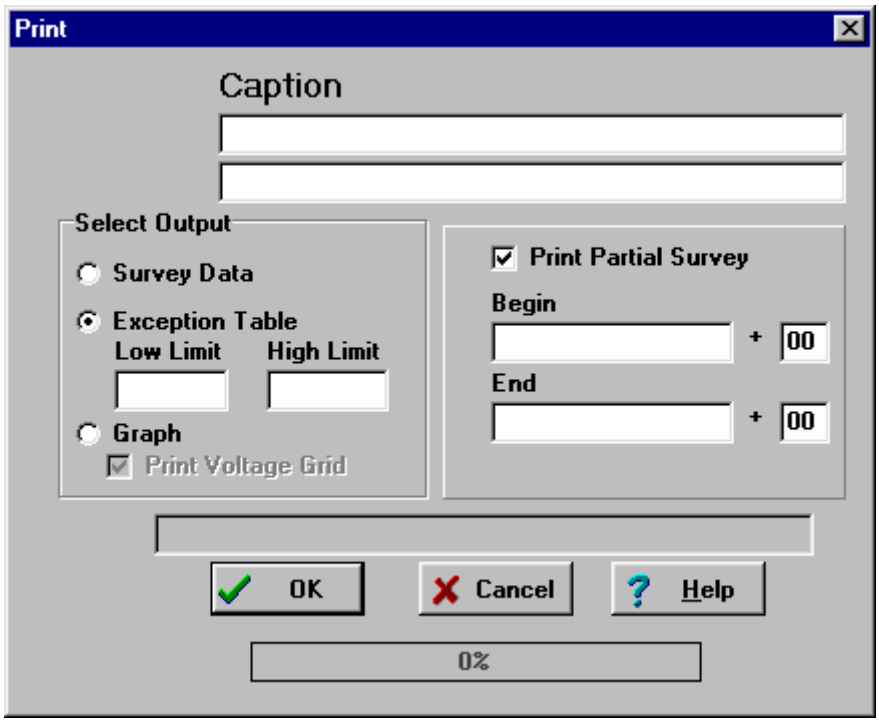
Press the 

button to return to the Main Form.

Reports

Press the

button and the following form will be presented.



Caption

Enter the Report Caption in these Edit Boxes. This might be the Line name and the Date Surveyed. Any information entered here will be printed on each page of the output.

Select Output

Survey Data-This option prints a formatted listing of the survey data. The header data from the SINCORDER will be printed on the first page of this report.

Exception Table- This option will print an Exception Table from the data. When you enter this section you will be prompted for the maximum acceptable potential, and minimum acceptable potential. A formatted listing will then be printed.

The header data from the SINCORDER will be printed on the first page of this report.

Print Partial Survey- This section prints only a portion of the selected report. You must enter the beginning and ending survey station numbers.

Press the

button and an Open File Dialog will help you choose the file to process.

Press the

button to enter the online Help System

Press the

button to return to the main form.

From the Main Form

Pushing the

button displays the About Box that contains the version and copyright information

Press the

button to enter the online Help System

Press the

button to return to Exit to the Desktop.

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Date:_____ ,19

SERIAL #:_____

Return this Signed Original to: M.C. Miller Co., INC.. 341 Margaret King Ave. Ringwood, New Jersey 07456

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M. C. MILLER CO.
341 Margaret King Ave.
Ringwood, New Jersey 07456

PROBLEM REPORT

Use this form to report software problems, documentation errors, or suggested enhancements. Mail the form to:

M.C. Miller Co.
341 Margaret King Ave.
Ringwood, New Jersey 07456

Name_____

Address_____

City _____State _____Zip_____

Phone (_____)-_____-_____

Date_____

Serial No. _____Version_____

PLEASE CHECK ONE OF THE FOLLOWING:

_____ Software Problem
_____ Software Suggestion
_____ Documentation Error
_____ Other

SYSTEM DESCRIPTION

Manufacturer_____

Model_____

Memory_____

Video Board_____

PROBLEM DESCRIPTION

Describe the problem, how to reproduce it, and any error codes reported. If you have any suggestions for correction or upgrades please include them.

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