

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

USER HANDBOOK FOR STATUS TRACKING SYSTEM
FOR RASS SAMPLES

Written in the dBase II Command Language
for Use on a Heath Model 89 Microcomputer

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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Introduction

This handbook is designed for personnel who may not be familiar with a microcomputer. The handbook contains basic instructions for the use of the H89 Heath microcomputer, the handling of floppy disks, and specific instructions for use of the Status Tracking System. The Status Tracking System is designed to allow rapid access to information regarding samples stored in the Rock Analysis Storage System (RASS).

This handbook also describes some of the information that is associated with RASS, such as the job number assigned by the Sample Control Section of the Branch of Exploration Geochemistry (BEG) for a group of samples. Other information stored in RASS includes project names, tag numbers, the number of samples per job, sample type by job, type of coordinates, RASS partition, type of analyses by job, assigned disk number, and RASS file number.

Project names are assigned by the USGS Geologic Division Program Office. Job numbers and tag numbers are assigned by BEG Sample Control Section and are used as an inventory system for tracking samples from receipt at BEG to completion and storage. These job numbers and tag numbers are used in the database, Tab.dbf, which is created through the database control language, dBaseII. If sample types are mixed on a job, the predominant type will be used in the database. Latitude and longitude are preferred for RASS entry, but X-Y coordinates are allowed. The RASS personnel assign the RASS file number and disk number. The RASS partition is assigned geographically by the RASS personnel.

Much of this information is common to the Projects.dbf database on the microcomputer. The information stored in this database includes the RASS file number, RASS partition, assigned disk number, project name, and a total number of samples per RASS project.

The system is designed so that a file may be searched on key fields or combinations of fields. These queries may take from seconds to minutes to complete (approximately 2 seconds are needed to query an indexed file in dBaseII). This rapid access assists RASS personnel in tracking sample data in RASS and sample data needed for RASS retrievals.

The Status Tracking System is designed for reports on a screen or hard copies from a printer.

General Information about Equipment

The vents on top of a microcomputer allow air to circulate through the cooling system. If the equipment is running, nothing should be set on top of it that would block the cooling system. Equipment is very sensitive to dust and other small particles. Therefore, it should be covered while not in use. The contrast filter on the screen is treated with a special coating. It can be cleaned with a soft tissue and liquid glass cleaner, but should never be cleaned with an abrasive.

There are some general rules for handling a floppy disk. The floppy disk used in the microcomputer should be handled with care. It should never be exposed to excessive temperatures, humidity, alcohol (such as cleaning

products), magnets, pencils, paper clips, and rubber bands. The user should not write on the diskette cover, as the pressure of a pen will mar the inside surface of the diskette. Smoke, such as that from a cigarette, will cause a film to form on the diskette which damages the diskette drive heads. The machine must be turned on prior to a floppy disk being installed into a drive. The machine should never be turned off with a disk still in a disk drive.

The original program disk should not be used. A backup disk should be used instead of the original. This protects the program from power surges and/or power outages.

The H89 microcomputer is configured presently to use a multi-outlet surge protector. The protector is located near the machine. The equipment must be plugged into the protector and the power switch on the protector must be in the "on" position prior to starting equipment. The switches for the microcomputer and disk drives are usually toggle switches located on the back of the machines. The machine must be turned on prior to typing any characters.

Prior to typing any characters, and after the machines have been turned on, the disks are inserted into the appropriate drives. (The drive configuration is discussed in the next section.) The system floppy disk and program disks are located in a desktop plastic file located near the machine. Instructions for handling the floppies and the system manuals are available from the RASS personnel.

STATUS Program Procedures

Getting started

All data for STATUS will be stored on the floppy disk labeled "D", which will be placed in the disk drive labeled "D:". All command files and programs will be stored on the floppy disk labeled "E", which will be placed in the disk drive labeled "E:". The operating system floppy disk is labeled "CPM WORKING", and it is placed in the disk drive which is labeled "A:". The microcomputer must be initialized. This process is called "booting". To boot the system, the operator strikes "B" and the return key. Questions regarding time and date will appear on the screen. Time and date may be entered, or the return key may be struck until "A " appears in the upper left section of the screen.

The operator then enters "E:" and the return key. This informs the microcomputer that the programs on drive E: are to be used rather than the programs on drive A:. To enter the STATUS program the operator types "DBASE STATUS" and presses the return key. The operator should make sure that the CAPS LOCK button is down at this point. The prompt enter date (MM/DD/YY): appears. The user enters the date and the main menu appears on the screen.

Main Menu Selections (STATUS.CMD)

The main menu allows the user to select one of several options. The option selected by the user calls other program modules which prompt the user for the information required for each program. The selections on the main menu are:

1. Enter data to the project file
2. Enter a new job on the tab sheets
3. Update analytical information on the tab sheets
4. Add RASS entry date to tab sheets

5. Create a report
6. Return to dBaseII
7. Return to the operating system. Make a selection.

Depending on the activity needed, the user selects an option.

Selection 1--Project File Program (NEWPROJE.CMD)

This program allows the user to add a new project to the Projects.dbf database. The program will prompt the user for information using the following format:

```
FILE NUMBER
PROJECT NAME
STATE CODE
NUMBER OF SAMPLES IN RASS
```

If a project is being entered for the first time, the file number must be assigned by the RASS personnel. If a project has previously been entered in the Status Tracking System, the file number for that project can be found in the RASS update notebook kept by RASS management personnel.

After the information for a file has been entered, the program prompts the user to add additional projects or to return to the main menu with the prompt:
"Enter 1 to continue or 2 to stop."

Selection 2--New Job File Program (NEWJOB.CMD)

This program creates a temporary database in which the information for jobs is entered. When the data for all new jobs are entered, the temporary database is updated to the permanent database, Tab.dbf.

If the user selects the second option of the main menu the screen displays:
Enter Job Number
Enter a Blank to Exit

If the user strikes a return the prompt "waiting" appears on the screen. The user then strikes another return and the '.' prompt appears on the screen and the user is returned to dBaseII. The user may either use dBase commands or type "do Status" and the original menu will re-appear.

If the user enters a job number. The job number is checked against a master list of previously entered numbers. If the job number has been entered, the statement "That entry is already on file" appears on the screen. The user then gets another chance to enter the job number or exit.

If the job number has not been entered previously, the entry format which appears is:

```
File           JobNumber
Beginning Tag Number
Ending Tag Number
Number of Samples      Sample Media      Coordinates
Chem          Spec      Geo          F:A          H2O
Comments
```

Some abbreviations are used in this format, and will be explained in this section. (Information for this format comes from the job folders received by

the RASS personnel from Sample Control when all requested analyses are completed by the laboratories.) File refers to the file number assigned by the RASS personnel. Job number is the number assigned by Sample Control when the samples are received at BEG. Beginning and Ending Tag Numbers are assigned by Sample Control. If the tag numbers are not consecutive, the comments section at the end of this format will be used to note this. The Number of Samples is taken from the first page of the job report. The Sample Type and Coordinates are taken from the second page of the job report. If there are two or more kinds of sample type, use the predominant code. Coordinates are to be coded 11 for latitude and longitude, xy for UTM northing and easting or 1x for both coordinate systems or any other type of coordinate system.

The next line of the format is abbreviated. It requires a Y for yes or blank for no. If there are chemical analyses (Chem), then a Y is entered. The types of analyses will then be noted in the comment section of this format. The other abbreviations are:

- spec = analysis by spectroscopy
- geo = geologic coding provided by the submitter
- f:a = analysis by fire assay
- h2o = water analysis

The comments column is used for listing analyses by wet chemistry, non-consecutive tag numbers and any other items of special note.

When all information has been supplied the user is asked "Do you want to add more jobs (y/n)?." If the user responds 'Y' the process will be repeated. If the user responds 'N' the screen displays the statement: "If you entered new jobs and they are ready to update, enter 1." If a 1 is entered the temporary file is updated to the permanent file, Tab.dbf, and the statement "The temporary file is now being added to the Master File." appears on the screen.

Selection 3--Correction/Update Programs (UPDATE.CMD; UPDATEA.CMD; UPTMP.CMD)

Selection three from the main menu allows the user to update either the permanent file, Tab.dbf, or the temporary file, Getnew.dbf. This is accomplished through the use of programs UPDATE.CMD and UPTMP.CMD which are called from the Updatea.cmd program. These programs allow the user to select the permanent or temporary file. The user is then prompted for the job number. The program being used stores the information from that job and displays it on the screen. The user may change this information or add additional information by using the dBaseII editor. Because these programs use the dBaseII editor, it is necessary to use a control (CTRL key) Q to leave this process. These programs, however, do give the user a chance to exit to the main menu prior to invoking the editor.

The screen display for this part of the system begins with the prompt
Enter Job Number
Enter a blank to exit

The user enters the job number on which corrections or updates are to be done. The database is searched and when the first occurrence is found, selected information (job number and tag numbers) is displayed on the screen with the question,

Is this the Correct Entry (y/n)?

If it is not the correct entry the second occurrence of the database is displayed with the same question and so on. When the correct entry is located

and the question is answered "Y", the screen displays a screen similar to the original entry screen with the stored information for the user to correct using the dBase II editor.

In using the dBase II editor, the CTRL key is important. A CTRL X moves the cursor forward one line and the CTRL D moves the cursor to the right one character. A CTRL E reverses the cursor one line and a CTRL S moves the cursor one character to the left. A CTRL V allows the user to insert text and CTRL G allows the user to delete one character at a time.

When the corrections are complete the user follows the direction on the screen and applies a 'CTRL Q'. This causes the question "Do you want to update data on any other job in the file?" This program then allows the user to enter a new job or update a permanent file based on the response.

This basic information applies to all the correcting programs.

Selection 4--RASS Entry Date Program (RASDAT.CMD)

This program is used to enter a RASS entry date in the permanent file, Tab.dbf. The RASS entry date is derived from the system date used when updated information is added. This program searches the file Tab.dbf for a given job number. If the job number is found in the file, the program prompts the user to enter the RASS Entry date. The program will then allow the user to return to the main menu or continue entering dates on other jobs.

Selection 5--Reports (OUTPUT.CMD)

This program allows the user to create several reports from either of the files Tab.dbf or Projects.dbf. The user has the option of writing the output to either a printer or the screen and of selecting an individual project or all projects.

This program displays the message "Enter P, if you want a hardcopy."

If a printer is available a P response directs the output to the external printer.

Then the screen displays the output menu:

1. Creates a report by job number and lists several variables. This report looks similar to a standard tab sheet.
2. Creates a report by file number and lists the job number, tag numbers, RASS entry date, number of samples and the sample media.
3. Creates a report by file number and lists the project name, state and the number of samples in RASS for all projects.
4. Creates a report by project name and lists the file number, state and the number of samples in RASS for all projects.
5. Creates a report by state and lists the file number and project name for all projects.
6. Return to dBaseII.
7. Return to the operating system.

The first option allows the user to obtain output from all jobs entered in the file Tab.dbf, which is similar to the tab sheets traditionally used in the RASS section.

The second option allows the user to obtain a report containing job number, beginning and ending tag numbers, the RASS entry date, the number of samples, and sample type ordered by file number sequence for all samples.

The third option allows the user to create a report in file number sequence, but contains only the disk number, project name, partition, and number of samples in RASS for all jobs entered in the file, Tab.dbf.

The fourth option allows the user to create a report in alphabetical order by project name for all projects in the file, Projects.dbf. It lists the file number, the number of samples in RASS, the partition, and disk number.

The fifth option allows the user to obtain a report from the Projects.dbf in numerical order by partition. It lists the file number, disk number, and project name.

The sixth option creates a report by disk number from the Projects.dbf. It lists the file number and disk number.

The seventh option creates the same report as option 1, but it is created from the Tab.dbf by file number for one file at a time. Not all jobs are listed on this report.

These options all require various amounts of time. The user should allow the necessary amount of time for doing any option. The program will cycle and allow the user to get more than one type of report. When all the necessary reports have been obtained, the user should enter a Q to return to dBaseII.

Additional Information and dBaseII Information

If at any time in using STATUS the user loses the menu process and wants to return to dBaseII, the "esc" key will normally accomplish this task. To re-enter the STATUS program, type "Do STATUS". This returns the user to the main menu.

If the user has left the STATUS program and needs to exit dBaseII, the user must type "quit". This will return the user to monitor level. If the user wishes to attempt other functions within dBaseII, the instruction manual may be obtained from the RASS personnel.

References

- McDougal, C. M., 1984, An overview, with retrieval request information, of the Rock Analysis Storage System (RASS), a database maintained by the Branch of Exploration Geochemistry, U.S. Geological Survey: U.S. Geological Survey Open-File Report 84- .
- Ratcliff, Wayne, , dBaseII, Assembly Language--Relational Database Managements System: Ashton-Tate, 9929 W. Jefferson Blvd., Culver City, California, 90250.
- VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

EXHIBIT 1 - DATABASES AND INDICES

A list of the various databases and indices used with status follows:

PERMANENT DATABASE

TAB.DBF

Indexed on:	JOBS.NDX Job Number	TABFIL.NDX File Number	TABSAM.NDX Sample Media
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PERMANENT DATABASE

PROJECTS.DBF

Indexed on:	PROJIN.NDX File Number	PROJDK.NDX Disk Number	PROJNM.NDX Project Name	PROJPT.NDX Partition
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TEMPORARY DATABASE

GETNEW.DBF

Indexed on:	NEWTMP.NDX Job Number
-------------	--------------------------

EXHIBIT 2 - FILE STRUCTURES

```

. list structure
STRUCTURE FOR FILE:  D:GETNEW.DBF
NUMBER OF RECORDS:  00001
DATE OF LAST UPDATE: 00/00/00
PRIMARY USE DATABASE
FLD      NAME      TYPE  WIDTH  DEC
001      FILENMBR   N      004
002      JOBNMBR    N      005
003      BTAG       C      007
004      ETAG       C      007
005      NMBR:SMPL   N      003
006      SMPL:MEDIA  C      002
007      COORD      C      002
008      CHEM       C      002
009      SPEC       C      002
010      GEO        C      002
011      F:A        C      002
012      H2O        C      002
013      PARTITN    C      015
014      DISKNMBR   N      002
015      PROJ:NAME  C      052
016      COMMENT    C      030
017      IN:RASS    C      008
** TOTAL **                00148

```

```

. use d:tab
. list structure
STRUCTURE FOR FILE:  D:TAB.DBF
NUMBER OF RECORDS:  03140
DATE OF LAST UPDATE: 12/27/84
PRIMARY USE DATABASE
FLD      NAME      TYPE  WIDTH  DEC
001      FILENMBR   N      004
002      JOBNMBR    N      005
003      BTAG       C      007
004      ETAG       C      007
005      NMBR:SMPL   N      003
006      SMPL:MEDIA  C      002
007      COORD      C      002
008      CHEM       C      002
009      SPEC       C      002
010      GEO        C      002
011      F:A        C      002
012      H2O        C      002
013      PARTITN    C      015
014      DISKNMBR   N      002
015      PROJ:NAME  C      052
016      COMMENT    C      030
017      IN:RASS    C      008
** TOTAL **                00148

```

```

. use d:projects
. list structure
STRUCTURE FOR FILE:  D:PROJECTS.DBF
NUMBER OF RECORDS:  00293
DATE OF LAST UPDATE: 00/00/00
PRIMARY USE DATABASE
FLD      NAME      TYPE  WIDTH  DEC
001      FILENMBR   N      004
002      DISKNMBR   N      002
003      PROJ:NAME  C      052
004      PARTITN    C      015
005      NO:IN:RASS N      007
** TOTAL **              00081

```

EXHIBIT 3 - PROGRAMS

1: RYPTYPWWEUPDATEA.CMD
TYPEUPDATEA.CMD?

A>TYPE A:E:UPDATEA.CMD

```
*****UPDATEA*****
* THIS IS A MENU TO ALLOW THE USER TO UPDATE THE MASTER TAB FILE OR *
* THE TEMPORARY FILE. THIS ALLOWS FOR A SELECTION OF EITHER FILE FOR *
* PURPOSES OF CORRECTING OR ADDING INFORMATION BY JOB NUMBER. *
* THIS PROGRAM IS CALLED FROM THE MAIN MENU AND CALLS OTHER PROGRAMS FOR *
* COMPLETING THE PROCESS. *
* WRITTEN BY:CHRISTINE MCDUGAL, JAN. 15, 1985, U. S. G. S. *
*****
```

SET TALK OFF
CLEAR
ERASE
SET PRINT OFF
STORE T TO TEMP
DO WHILE TEMP
STORE ' ' TO ans

@ 1,1 SAY ' 1> CORRECT OR UPDATE THE MASTER FILE.'
@ 3,1 SAY ' 2> CORRECT OR UPDATE THE TEMPORARY FILE.'
@ 5,1 SAY ' 3> RETURN TO MAIN MENU OF STATUS SYSTEM.'
@ 7,1 SAY ' 4> RETURN TO THE OPERATING SYSTEM. '
@ 10,T SAY ' MAKE A SELECTION

DO WHILE .NOT. ans\$'1234'
@ 10,35 GET ans PICT '!'
READ
ENDDO

DO CASE

CASE ans = '1'
DO UPDATE

CASE ans = '2'
DO UPTMP

CASE ans = '3'
USE
ERASE
RETURN

CASE ans = '4'
USE
RELEASE
QUIT

ENDCASE

STORE T TO TEMP
ENDDO TEMP
ERASE
RELEASE
RETURN

4. TYPE E:UPDATE.CMD

```
*****UPDATE*****
* THIS IS A PROGRAM TO UPDATE THE TABULATION SHEETS USED IN TRACKING SAMPLES *
* THROUGH THE RASS MANAGEMENT SECTION. IT IS USED WHEN ADDITIONAL DATA HAS *
* BEEN ADDED TO A JOB. IT IS CALLED FROM A MAIN MENU OPTION AND UPDATES *
* ONLY THE MASTER TAB FILE. *
* Written by Christine McDougal, Computer Programmer, U. S. Geological Survey*
* BOES, Sept. 1984 *
* UPDATED JAN. 15, 1985 *
*****
```

SET COLON OFF

CLEAR / /

SET 'EXACT' ON

SET PRINT OFF

ERASE

SELECT PRIMARY

USE D:TAB INDEX E:JOBS

GO TOP

STORE ' ' TO ACTION

STORE T TO Flag

DO WHILE T

STORE 'Y' TO changing

DO WHILE !(changing)='Y'

STORE ' ' TO ans

* ENTER JOB NUMBER

STORE ' ' TO mjobnbr

ERASE

@ 5,6 SAY "ENTER JOB NUMBER" GET mjobnbr PICTURE '99999'

@ 9,6 SAY "ENTER A BLANK TO EXIT"

READ

ERASE

IF mjobnbr=' '

ERASE

RETURN

ENDIF mjobnbr=' '

FIND &mjobnbr

*IF NO MATCH IS FOUND # IS EQUAL TO 0

IF # = 0

@ 5,5 SAY 'THAT JOB NUMBER CANNOT BE FOUND.'

STORE 1 TO XX

DO WHILE XX<35

STORE XX+1 TO XX

ENDDO WHILE XX<70

LOOP

ENDIF #=0

IF # > 0

ERASE

DISPLAY TRIM(BTAG),ETAG,MJOBNMBR

* VERIFY THAT THIS IS THE CORRECT ENTRY.

STORE ' ' TO ans

@ 5,19 SAY 'IS THIS THE CORRECT ENTRY (Y/N)?' GET ans

READ

ERASE

IF !(ans)='N'

SKIP

FIND &MJOBNMBR

LOOP

ENDIF

IF !(ans)='Y'

ERASE

```

STORE FILENMBR TO MFILENMBR
STORE JOBNMBR TO MJOBNMBR
STORE BTAG TO MBTAG
STORE ETAG TO METAG
STORE NMBR:SMPL TO MNMBR
STORE SMPL:MEDIA TO MSMPL
STORE COORD TO MCOORD
STORE CHEM TO MCHEM
STORE SPEC TO MSPEC
STORE GEO TO MGEO
STORE F:A TO MF:A
STORE H2O TO MH2O
STORE COMMENT TO MCOMMENT
ERASE
* DISPLAY ENTIRE ENTRY ON THE SCREEN
@ 1,1 SAY "FILE JOB NUMBER
@ 1,6 GET mfilenbr
@ 1,30 GET mjobnbr
@ 3,1 SAY "BEGINNING TAG NUMBER"
@ 3,23 GET mbtag
@ 5,1 SAY "ENDING TAG NUMBER"
@ 5,23 GET metag
@ 7,1 SAY "NUMBER OF SAMPLES SAMPLE MEDIA COORDINATES"
@ 7,18 GET MNMBR
@ 7,44 GET MSMPL PICTURE "X"
@ 7,61 GET MCOORD
@ 9,1 SAY "CHEM SPEC GEO F:A H2O"
@ 9,7 GET MCHEM PICTURE "X"
@ 9,15 GET MSPEC PICTURE "X"
@ 9,23 GET MGEO PICTURE "X"
@ 9,32 GET MF:A PICTURE "X"
@ 9,40 GET MH2O PICTURE "X"
@ 11,1 SAY "COMMENTS"
@ 11,10 GET mcomment
@ 18,1 SAY "WHEN CORRECTIONS ARE MADE DO A CTRL Q."
READ
REPLACE FILENMBR WITH MFILENMBR,JOBNMBR WITH MJOBNMBR,geo WITH mgeo,
BTAG WITH MBTAG,ETAG WITH METAG,NMBR:SMPL WITH MNMBR,;
SMPL:MEDIA WITH MSMPL,COORD WITH MCOORD,chem WITH mchem
REPLACE spec WITH mspec,f:a WITH mf:a,h2o WITH mh2o,comment WITH mcomment
CLEAR GETS
ERASE
RELEASE mjobnbr
ENDIF !(ans)
ERASE

@ 15,1 SAY "Do you want to update data on any other job in the master"
@ 16,1 SAY "file(Y/N)?"

WAIT TO changing

IF !(changing) = "Y"
LOOP
ELSE
ERASE
STORE 'N' TO changing
ENDIF !(changing)
ENDDO WHILE CHANGING
RETURN
ERASE
ENDDO WHILE T
RELEASE ALL
ERASE
RETURN

```

```

A>TYPE E:STATUS.CMD
*****STATUS PROGRAM*****
* THIS IS THE MAIN MENU FOR ENTERING TAB SHEETS ON THE H89. *
* Written by Christine McDougal *
* Computer Programmer U. S. Geological Survey *
* Written for use in RASS Management, Branch of Exploration Geochemistry *
*,6 August 1984 *
*****
ERASE
CLEAR
RELEASE ALL
SET TALK OFF
STORE ' ' TO mdate
@ 2,1 SAY "ENTER DATE (MM/DD/YY)" GET mdate PICTURE '99/99/99'
READ
STORE VAL(%mdate,1,2) TO tmonth
STORE VAL(%mdate,4,2) TO tday
STORE VAL(%mdate,7,2) TO tyear
DO WHILE (mdate>[ / / ]) .AND.;
(tmonth<1 .OR. tmonth>12 .OR. tday<1 .OR.;
tday>VAL("3129313031303130313031" , ;
(tmonth-INT((tmonth-1)/12)*12) *2-1,2)) .OR. ;
(tmonth=2 .AND. tday>28 .AND. tyear/4.0>INT(tyear/4.0)))
@ 3,1 SAY "NOT A VALID DATE, PLEASE RE_ENTER" GET mdate PICTURE '99/99/99'
READ
STORE VAL(%mdate,1,2) TO tmonth
STORE VAL(%mdate,4,2) TO tday
STORE VAL(%mdate,7,2) TO tyear
ENDDO
IF " %mdate .AND. (.NOT. mdate >[ / / ])"
*right justify variables
STORE STR(tmonth,2)+'/'+STR(tday,2)+'/'+STR(tyear,2) TO mdate
*use date function to add lead zero
STORE DATE() TO tdate
SET DATE TO %mdate
STORE DATE() TO mdate
SET DATE TO %tdate
@ 3,21 GET mdate PICTURE '99/99/99'
ENDIF
SET PRINT OFF

USE D:TAB
ERASE
STORE T TO starting
DO WHILE T

```

STORE ' ' TO ans

```
@ 1,1 say ' *****MENU FOR JOBS MARKED FOR RASS*****'
@ 2,1 say ' THIS IS THE CONTROL MODULE FOR ENTERING THE JOBS WHICH ARE MARKED'
@ 3,1 say ' FOR ENTRY TO THE RASS DATA BASE (MENU DRIVEN). The operator is '
@ 4,1 say ' given a choice of major functions. The menu selection calls up '
@ 5,1 say ' sub-functions necessary in maintaining tab sheets and '
@ 6,1 say ' project files. '
@ 7,1 say ' *****'
@ 9,1 say '      1> ENTER DATA TO THE PROJECT FILE'
@ 11,1 say '      2> ENTER A NEW JOB ON THE TAB SHEETS'
@ 13,1 say '      3> UPDATE ANALYTICAL INFORMATION ON THE TAB SHEETS'
@ 15,1 say '      4> ADD RASS ENTRY DATE TO TAB SHEETS'
@ 17,1 say '      5> CREATE A REPORT'
@ 19,1 say '      6> RETURN TO dBASE II'
@ 21,1 say '      7> RETURN TO THE OPERATING SYSTEM'
@ 22,1 say '          MAKE A SELECTION
```

DO WHILE .NOT. ans \$'1234567'

 @ 22,40 GET ans PICT '!'

 READ

ENDDO

DO CASE

 CASE ans = '1'

 DO NEWPROJECT

 CASE ans = '2'

 DO NEWJOB

 CASE ans = '3'

 DO UPDATEA

 CASE ans = '4'

 SAVE TO fixedata ALL LIKE mdate

 DO RASDAT

 CASE ans = '5'

 DO OUTPUT

 CASE ans = '6'

 USE

 ERASE

 RETURN

 CASE ans = '7'

 USE

 RELEASE ALL

 ERASE

 QUIT

ENDCASE

ENDDO ans

WAIT

STORE F TO starting

ENDDO starting

A TYPE E:OUTPUT.CMD

```
*****OUTPUT MENU*****
* THIS IS A SUBPROGRAM WHICH ALLOWS THE USER TO VIEW SEVERAL LISTINGS IN
* REPORT FORM. THESE ARE PRODUCED FROM THE TAB.DBF AND PROJECTS.DBF FILES.
* THESE REPORTS MAY BE VIEWED ON THE SCREEN OR A HARDCOPY MAY BE PRODUCED.
* THIS OUTPUT PROGRAM IS CALLED FROM THE MAIN CONTROL MENU.
* Written by Christine McDougal, U. S. G. S., BOEG, Nov. 1984
* MODIFIED MARCH 24, 1986
*****
```

```
CLEAR
RELEASE ALL
ERASE
USE
RESTORE FROM fixedata
STORE T TO reports
DO WHILE T
  * SELECT PRINTER OPTION
  STORE ' ' TO hard
  ERASE
  @ 10,20 SAY "Enter P, if you want a hardcopy." GET hard
  READ
  IF !(hard) = "P"
    STORE 'TO PRINT' TO hard
    SET EJECT ON
    SET PRINT ON
  ELSE
    STORE CHR(0) TO hard
  ENDIF Hard
  SAVE TO fixedata ALL LIKE hard
  SET PRINT OFF
  STORE ' ' TO ans
  ERASE
  * LIST VARIOUS OPTIONS FOR REPORTS
  @ 1,10 SAY "1. Create a report by job number and lists several variables."
  @ 2,10 SAY " This report looks similar to a standard tab sheet."
  @ 4,10 SAY "2. Creates a report by file number and lists the job number. "
  @ 5,10 SAY " tag numbers, the rass entry date, the number of samples and"
  @ 6,10 SAY " the sample media."
  @ 8,10 SAY "3. Creates a report by file number and lists the project name."
  @ 9,10 SAY " state, and number of samples in RASS for all projects."
  @ 11,10 SAY "4. Creates a report by project name and lists the file number."
  @ 12,10 SAY " state, and the number of samples in RASS for all projects."
  @ 14,10 SAY "5. Creates a report by state and lists the file number and"
  @ 15,10 SAY " project name for all projects."
  @ 17,10 SAY "6. Return to dBase II."
  @ 19,10 SAY "7. Return to the operating system."
  @ 21,10 SAY " Whichever option is selected may take a lot of time to run. "
  @ 22,10 SAY " Make sure you have allowed for it."

  DO WHILE .NOT. ans$'1234567'
    @ 19,60 GET ans PICTURE "!"
    READ
  ENDDO

  DO CASE

    CASE ans = "1"
      DO OUTONE

    CASE ans = "2"
```

```

DO OUTTWO

CASE ans = "3"
  USE E:projects INDEX E:projin
  GOTO TOP
  RESTORE FROM fixedata
  REPORT FORM E:projout &hard
  RELEASE ALL
  CLEAR
  RETURN
  / / /
CASE ans = "4"
  USE E:projects INDEX E:projin
  GOTO TOP
  RESTORE FROM fixedata
  REPORT FORM E:nameout &hard
  RELEASE ALL
  CLEAR
  RETURN

CASE ans = "5"
  USE E:projects INDEX E:projt
  GOTO TOP
  RESTORE FROM fixedata
  REPORT FORM E:projpot &hard

CASE ans = "6"
  USE
  ERASE
  RETURN

CASE ans = "7"
  USE
  ERASE
  RELEASE ALL
  QUIT

ENDCASE
ENDDO ans
STORE F TO starting

ENDDO WHILE T
STORE F TO reports
ENDDO
RETURN
RELEASE ALL

```

THIS IS A SUBPROGRAM FOR ENTERING THE DATE OF RASS ENTRY TO THE E-LOG
 ENTRY ON THE TAB SHEETS. IT IS CALLED FROM THE MAIN CONTROL MENU.
 *written by Christine McDougal, U. S. Geological Survey, BOES, Oct. 1984

```

CLEAR
SET PRINT OFF
SET EXACT ON
SELECT PRIMARY
USE D:TAB INDEX JOBS
GO TOP
STORE T TO flag
DO WHILE T
  STORE "Y" TO changing
  DO WHILE !(changing)="Y"
    ENTER JOB NUMBER
    STORE " " TO mjobnbr
    ERASE
    @ 5,6 SAY "ENTER JOB NUMBER" GET mjobnbr PICTURE '99999'
    @ 9,6 SAY "ENTER BLANK TO EXIT"
    READ
    IF mjobnbr =" "
      RETURN
    ENDIF mjobnbr=" "
    FIND &mjobnbr
    IF #=0
      @ 23,1 SAY CHR(7)
      @ 23,40 SAY "THAT ENTRY IS NOT ON FILE."
      STORE 1 TO XX
      DO WHILE XX<35
        STORE XX+1 TO XX
      ENDDO WHILE XX<70
      LOOP
    ENDIF #=0
    IF #>0
      SET TALK ON
      RESTORE FROM fixedata
      REPLACE IN:RASS WITH mdate
    ENDIF #>0
    ERASE
    RELEASE ALL

    @ 15,1 SAY "DO YOU WANT TO ADD A RASS ENTRY DATE TO ANY OTHER JOBS(Y/N)?"

    WAIT TO changing

    IF !(changing) = "Y"
      *LOOP BACK TO DO WHILE CHANGING
      LOOP
    ELSE
      STORE "N" TO CHANGING
      ERASE
      RETURN
    ENDIF !(changing)
  ENDDO WHILE changing
  ERASE
  STORE F TO flag
ENDDO WHILE T
ERASE
RELEASE
RETURN

```

THIS IS A SUBPROGRAM FOR ENTERING THE DATE OF RASS ENTRY TO THE ORIGINAL JOB
 *ENTRY ON THE TAB SHEETS. IT IS CALLED FROM THE MAIN CONTROL MENU. *
 *written by Christine McDougal, U. S. Geological Survey, BOEG, Oct. 1984 *

```

CLEAR
SET PRINT OFF
SET EXACT ON
SELECT PRIMARY
USE D:TAB INDEX JOBS
GO TOP
STORE T TO flag
DO WHILE T
  STORE "Y" TO changing
  DO WHILE !(changing)="Y"
    *ENTER JOB NUMBER
    STORE " " TO mjobnbr
    ERASE
    @ 5,6 SAY "ENTER JOB NUMBER" GET mjobnbr PICTURE '99999'
    @ 9,6 SAY "ENTER BLANK TO EXIT"
    READ
    IF mjobnbr =" "
      RETURN
    ENDIF mjobnbr=" "
    FIND &mjobnbr
    IF #=0
      @ 23,1 SAY CHR(7)
      @ 23,40 SAY "THAT ENTRY IS NOT ON FILE."
      STORE 1 TO XX
      DO WHILE XX<35
        STORE XX+1 TO XX
      ENDDO WHILE XX<70
      LOOP
    ENDIF #=0
    IF #>0
      SET TALK ON
      RESTORE FROM fixedata
      REPLACE IN:RASS WITH mdate
    ENDIF #>0
    ERASE
    RELEASE ALL

    @ 15,1 SAY "DO YOU WANT TO ADD A RASS ENTRY DATE TO ANY OTHER JOBS(Y/N)?"

    WAIT TO changing

    IF !(changing) = "Y"
      *LOOP BACK TO DO WHILE CHANGING
      LOOP
    ELSE
      STORE "N" TO CHANGING
      ERASE
      RETURN
    ENDIF !(changing)
  ENDDO WHILE changing
  ERASE
  STORE F TO flag
ENDDO WHILE T
ERASE
RELEASE
RETURN

```

A>TYPE EDPROJ.CMD
EDPROJ.CMD?

A>TYPE E:EDPROJ.CMD

```
*****PROJECT EDIT*****
* THIS IS A MODULE TO EDIT THE PROJECT FILE. IT IS CALLED FROM THE MAIN *
* MENU AND WILL BE USED TO CORRECT OR CHANGE ANY AND ALL PARTS OF THE *
* PROJECT DATABASE. IT IS NOT TO BE USED IN ADDING NEW PROJECTS. *
*****
```

CLEAR.

SET EXACT ON

SELECT PRIMARY

ERASE

USE D:PROJECTS INDEX D:PROJIN

STORE T TO FLAG

DO WHILE T

STORE "Y" TO CHANGING

DO WHILE !(CHANGING) = "Y"

* ENTER FILE NUMBER FOR SEARCH PURPOSES

STORE " " TO MFILE

ERASE

@ 5,8 SAY "ENTER FILE NUMBER." GET MFILE PICTURE "999"

@ 9,8 SAY "ENTER A BLANK TO EXIT."

READ

IF VAL(MFILE) = " "

RETURN

ENDIF MFILE

FIND &MFILE

ERASE

?

? "1. CORRECT PROJECT INFORMATION."

? "2. RETURN TO MAIN MENU."

?

WAIT TO ACTION

IF ACTION = "1"

@ 2,6 SAY " PLEASE ENTER A SPACE IN FIRST CHARACTER OF PROJECT NAME AND"

@ 3,6 SAY " STATE CODE. IN ORDER TO RETURN USE CONTROL Q."

EDIT A &MFILE

REPLACE VAL(FILENMBR) WITH VAL(FILENMBR).VAL(DISKNMBR) WITH VAL(DISKNMBR)

REPLACE PROJ:NAME WITH PROJ:NAME.PARTITN WITH PARTITN.

REPLACE VAL(NO:IN:RASS) WITH VAL(NO:IN:RASS)

CONTINUE

?

?

? "DO YOU WANT TO CHANGE ANY OTHER PROJECTS?"

?

?

WAIT TO CHANGING

LOOP

ENDIF 1

ELSE

IF ACTION = "2"

RETURN

ENDIF 2

STORE "N" TO CHANGING

ENDDO WHILE CHANGING

STORE F TO FLAG

ENDDO WHILE T

RELEASE ALL

RETURN

RELEASE

RETURN

A>TYPE E:OUTTWO.CMD

```
*****OUTTWO.PRQ*****
*THIS PROGRAM CREATES A REPORT BY JOB NUMBER AND LIST SEVERAL VARIABLES. IT *
*LOOKS SIMILAR TO THE TAB SHEETS WHICH HAVE BEEN USED TRADITIONALLY BY THE *
*RASS PERSONNEL. *
*WRITTEN BY CHRISTINE MCDUGAL NOV.1984. MODIFIED MARCH 1986. *
*****
```

```
CLEAR
RELEASE ALL
RESTORE FROM fixedata
SET TALK ON
ERASE
SET COLON ON
SELECT PRIMARY
USE D:tab INDEX E:tabfil
GO TOP
ERASE
STORE T TO reports
DO WHILE T
STORE ' ' TO ans
```

```
@ 6.1 SAY "1. REPORT ON ALL JOBS IN RASS."
@ 8.1 SAY "2. REPORT ON AN INDIVIDUAL RASS PROJECT."
@ 10.1 SAY "3. RETURN TO MAIN MENU."
@ 11.1 SAY " MAKE A SELECTION."
```

```
DO WHILE .NOT. ans# '123'
@ 11.30 GET ans PICT '!'
READ
ENDDO
```

DO CASE

```
CASE ans = '1'
RESTORE FROM fixedata
GO TOP
USE D:tab INDEX E:tabfil
REPORT FORM E:tabout &hard
SELECT PRIMARY
USE
SELECT SECONDARY
USE
ERASE
RETURN
```

```
CASE ans = '2'
SELECT PRIMARY
USE D:tab INDEX E:tabfil
STORE 'Y' TO continuing
DO WHILE !(continuing)='Y'
GOTO TOP
STORE T TO flag
DO WHILE T
```

```

STORE ' ' TO #file
ERASE
@ 10.1 SAY "ENTER FILE NUMBER" GET #file PICTURE "999"
@ 12.1 SAY "ENTER A BLANK TO EXIT."
READ
ERASE
IF #file = ' '
RETURN
ENDIF #FILE
FIND #file
* IF NO MATCH. RECORD NUMBER IS = 0.
IF #=0
@ 5.5 SAY CHR(7)
@ 5.6 SAY "FILE IS NOT FOUND"
STORE 1 TO XX
DO WHILE XX<35
STORE XX+1 TO XX
ENDDO WHILE XX<70
LOOP
ENDIF
IF #<>0
DO WHILE .NOT. EOF .AND. filen#br = #file .AND. flag
USE D:writes
APPEND FROM D:TAB FOR filen#br = #file
ERASE
ENDDO WHILE #file
ENDIF #<>0
SELECT PRIMARY
USE D:WRITES
REPORT FORM E:tabout #hard
ERASE
USE D:writes
GO TOP
DELETE ALL
PACK
STORE F TO flag
CLEAR
ENDIF
IF #=0
STORE F TO flag
ERASE
RETURN
USE D:writes
DELETE ALL
PACK
ENDIF
ENDDO
STORE 'N' TO continuing
ENDDO WHILE continuing
CASE ans = '3'
USE
RELEASE ALL
ERASE
RETURN
ENDCASE

STORE F TO flag
ENDDO WHILE
CLEAR
ERASE
RELEASE ALL
STORE T TO reports
RETURN

```

```
A>TYPE UPTMP.CMD
UPTMP.CMD?
```

```
A>TYPE E:UPTMP.ECMD
```

```
*****UPDATE*****
* THIS IS A PROGRAM TO UPDATE THE TABULATION SHEETS USED IN TRACKING SAMPLES *
* THROUGH THE RASS MANAGEMENT SECTION. IT IS USED WHEN ADDITIONAL DATA HAS *
* BEEN ADDED TO A JOB. IT IS CALLED FROM A MAIN MENU OPTION AND UPDATES *
* ONLY THE MASTER TAB FILE. *
* Written by Christine McDougal, Computer Programmer, U. S. Geological Survey*
* BOEG, Sept. 1984 *
* UPDATED JAN. 15, 1985 *
*****
```

```
SET COLON OFF
CLEAR
SET EXACT ON
SET PRINT OFF
ERASE
SELECT PRIMARY
USE D:getnew INDEX D:newmap
GO TOP
- STORE ' ' TO ACTION
STORE T TO flag
- DO WHILE T
  STORE 'Y' TO changing
  DO WHILE !(changing)='Y'
    STORE ' ' TO ans
    * ENTER JOB NUMBER
    STORE ' ' TO mjobnbr
    ERASE
    @ 5.6 SAY "ENTER JOB NUMBER" GET mjobnbr PICTURE '99999'
    @ 9.6 SAY "ENTER A BLANK TO EXIT"
    READ
    ERASE
    IF mjobnbr=' '
      ERASE
      RETURN
    ENDIF mjobnbr=' '
    FIND &mjobnbr
    *IF NO MATCH IS FOUND # IS EQUAL TO 0
    IF # = 0
      @ 5.5 SAY "THAT JOB NUMBER CANNOT BE FOUND."
      STORE 1 TO XX
      DO WHILE XX<35
        STORE XX+1 TO XX
      ENDDO WHILE XX<70
      LOOP
    ENDIF #=0
    IF # > 0
      ERASE
      DISPLAY TRIM(BTAG).ETAG.MJOBNMBR
      * VERIFY THAT THIS IS THE CORRECT ENTRY.
      STORE ' ' TO ans
      @ 5.15 SAY "IS THIS THE CORRECT ENTRY (Y/N)?" GET ans
      READ
```

```

ERASE
IF !(ans) = 'N'
  SKIP
  FIND &MJOBNNBR
  LOOP
ENDIF
IF !(ans) = 'Y'
  ERASE
  STORE FILENNBR TO MFILENNBR
  STORE JOBNBR TO MJOBNNBR
  STORE BTAG TO MBTAG
  STORE ETAG TO METAG
  STORE NMBR:SMPL TO MNMBR
  STORE SMPL:MEDIA TO MSMPL
  STORE COORD TO MCOORD
  STORE CHEM TO MCHEM
  STORE SPEC TO MSPEC
  STORE GEO TO MGEO
  STORE F:A TO MF:A
  STORE H2O TO MH2O
  STORE COMMENT TO MCOMM
  ERASE
* DISPLAY ENTIRE ENTRY ON THE SCREEN
  @ 1,1 SAY "FILE                JOB NUMBER"
  @ 1,6 GET mfilennbr
  @ 1,30 GET mjobnnbr
  @ 3,1 SAY "BEGINNING TAG NUMBER"
  @ 3,23 GET mbtag
  @ 5,1 SAY "ENDING TAG NUMBER"
  @ 5,23 GET metag
  @ 7,1 SAY "NUMBER OF SAMPLES          SAMPLE MEDIA      COORDINATES"
  @ 7,18 GET MNMBR
  @ 7,44 GET MSMPL PICTURE "X"
  @ 7,61 GET MCOORD
  @ 9,1 SAY "CHEM      SPEC      GEO      F:A      H2O"
  @ 9,7 GET MCHEM PICTURE "X"
  @ 9,15 GET MSPEC PICTURE "X"
  @ 9,23 GET MGEO PICTURE "X"
  @ 9,32 GET MF:A PICTURE "X"
  @ 9,40 GET MH2O PICTURE "X"
  @ 11,1 SAY "COMMENTS"
  @ 11,10 GET mcomm
  @ 18,1 SAY "WHEN CORRECTIONS ARE MADE DO A CTRL Q."
  READ

```

```

REPLACE FILENMBR WITH MFILENMBR,JOBNMBR WITH MJOBNMBR,geo WITH mgeo,i
      BTAG WITH MBTAG,ETAG WITH METAG,NM6R:SNPL WITH MNMBR,;
      SNPL:MEDIA WITH MSNPL,COORD WITH MCOORD,chem WITH mchem
REPLACE spec WITH Mspec,f:a WITH mf:a.h20 WITH mh20,comment WITH mcomm
CLEAR GETS
ERASE
RELEASE mjobnbr
ENDIF !(ans)
ERASE

@ 15,1 SAY 'Do you want to change information on any other jobs in the'
@ 16,1 SAY 'temporary file(Y/N)?'

WAIT TO changing

IF !(changing) = 'Y'
  LOOP
ELSE
  ERASE
  STORE 'N' TO changing
ENDIF !(changing)
ENDDO WHILE CHANGING
RETURN
ERASE
ENDDO WHILE T
RELEASE ALL
ERASE
RETURN

```

```

A TYPE E:NEWPROJE.CMD
*****NEW PROJECTS*****
*THIS IS A SUBPROGRAM FOR ADDING INFORMATION TO THE PROJECTS FILE. IT IS*
*CALLED FROM THE MENU IN THE MAIN COMMAND FILE. Written by Christine *
*McDougal, Computer Programmer, U. S. G. S., BOEG, Sept. 1984 *
*****

ERASE
SET PRINT OFF
SELECT PRIMARY
USE E:PROJECTS INDEX E:PROJIN
SET INDEX TO E:PROJNM,E:PROJPT
STORE T TO FLAG
DO WHILE T
  STORE " " TO FILENMBR
  STORE " " TO PROJ:NAME
  STORE " " TO PARTITN
  STORE " " TO NO:IN:RASS
ERASE
GOTO BOTTOM
APPEND BLANK
@ 4,4 SAY "FILE NUMBER"
@ 4,18 GET FILENMBR PICTURE '999'
@ 6,4 SAY "PROJECT NAME"
@ 6,18 GET PROJ:NAME PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXX'
@ 8,4 SAY "STATE CODE"
@ 8,18 GET PARTITN PICTURE 'XXX'
@ 10,4 SAY "NUMBER OF SAMPLES IN RASS"
@ 10,30 GET NO:IN:RASS PICTURE '99999'
READ

REPLACE FILENMBR WITH FILENMBR,PROJ:NAME WITH PROJ:NAME,PARTITN WITH PARTITN,:
NO:IN:RASS WITH NO:IN:RASS

? "ENTER 1 TO CONTINUE OR 2 TO STOP"
WAIT TO ACTION
IF ACTION = '1'
  ERASE
  LOOP
ENDIF ACTION = '1'

IF ACTION = "2"
  ERASE
  RETURN
ENDIF ACTION

STORE F TO FLAG
ENDDO WHILE T
RELEASE
RETURN

```

```

A>TYPE E:OUTONE.CMD
*****OUTONE.PRG*****
*THIS PROGRAM CREATES A REPORT BY JOB NUMBER AND LIST SEVERAL VARIABLES. IT *
*LOOKS SIMILAR TO THE TAB SHEETS WHICH HAVE BEEN USED TRADITIONALLY BY THE *
*RASS PERSONNEL. *
*WRITTEN BY CHRISTINE MCDUGAL NOV.1984. MODIFIED MARCH 1986. *
*****

```

```

CLEAR
RELEASE ALL
RESTORE FROM fixedata
SET TALK ON
ERASE
SET COLON ON
SELECT PRIMARY
USE D:tab INDEX E:tabfil
SELECT SECONDARY
USE E:projects INDEX E:projin
GO TOP
ERASE
STORE T TO reports
DO WHILE T
STORE ' ' TO ans

```

```

@ 6,1 SAY "1. REPORT ON ALL JOBS IN RASS."
@ 8,1 SAY "2. REPORT ON AN INDIVIDUAL RASS PROJECT."
@ 10,1 SAY "3. RETURN TO MAIN MENU."
@ 11,1 SAY "      MAKE A SELECTION."

```

```

DO WHILE .NOT. ans$'123'
@ 11,30 GET ans PICT '!'
READ
ENDDO

```

```

DO CASE

```

```

CASE ans = '1'
RESTORE FROM fixedata
GO TOP
USE D:tab INDEX E:tabfil
REPORT FORM E:joball &hard
SELECT PRIMARY
USE
SELECT SECONDARY
USE
ERASE
RETURN

```

```

CASE ans = '2'
SELECT PRIMARY
USE D:tab INDEX E:tabfil
STORE 'Y' TO continuing
DO WHILE '(continuing)='Y'
GOTO TOP
STORE T TO flag
DO WHILE T
STORE ' ' TO mfile
ERASE
@ 10,1 SAY "ENTER FILE NUMBER" GET mfile PICTURE '999'
@ 12,1 SAY "ENTER A BLANK TO EXIT."
READ
ERASE

```

```

IF #file = 
    RETURN
ENDIF #file
FIND #file
* IF NO MATCH. RECORD NUMBER IS = 0.
IF #=0
    @ 5,5 SAY CHR(7)
    @ 5,6 SAY "FILE IS NOT FOUND"
    STORE 1 TO XX
    DO WHILE XX<35
        STORE XX+1 TO XX
    ENDDO WHILE XX<70
    LOOP
ENDIF ;
IF #<>0
    DO WHILE .NOT. EOF .AND. filenabr = #file .AND. flag
        USE D:WRITES
        APPEND FROM D:TAB FOR filenabr = #file
        ERASE
    ENDDO WHILE #file
ENDIF #<>0
SELECT PRIMARY
USE D:WRITES
SELECT SECONDARY
FIND #file
IF #=0
    @ 5,5 SAY CHR (7)
    @ 5,6 SAY 'THAT PROJECT CANNOT BE FOUND'
    STORE 1 TO XX
    DO WHILE XX<35
        STORE XX+1 TO XX
    ENDDO WHILE XX<70
    LOOP
    ERASE
ENDIF
IF #<>0
    STORE proj:name TO #proj
    STORE partitn TO #partitn
    SELECT PRIMARY
    USE D:writes
    REPLACE ALL proj:name WITH #proj
    REPLACE ALL partitn WITH #partitn
    RESTORE FROM fixedata
    SORT ON jobnabr TO d:temp
    USE D:temp
    COPY TO D:writes
    USE D:writes
    DELETE FILE D:temp
    REPORT FORM E:jobout &hard
    ERASE
    USE D:writes
    GO TOP
    DELETE ALL
    PACK
    STORE F TO flag
    CLEAR
ENDIF

```

```

IF I=0
  STORE F TO flag
  ERASE
  RETURN
  USE D:writes
  DELETE ALL
  PACK
ENDIF
ENDDO
STORE 'N' TO continuing
ENDDO WHILE continuing

CASE ans = '3'
  USE
  RELEASE ALL
  ERASE
  RETURN

ENDCASE

STORE F TO flag
ENDDO WHILE
STORE T TO reports
CLEAR
ERASE
RELEASE ALL
RETURN

```

```

A>TYPE A:E:NEWJOB.CMD
***** NEW JOB *****
* THIS IS A COMMAND MODULE FOR ADDING A NEW JOB TO THE TAB SHEET. THIS IS A *
* SUBROUTINE ENACTED FROM THE MAIN COMMAND MODULE. IF A JOB NUMBER IS *
* ENTERED AND IT ALREADY EXISTS IN THE DATABASE, A BRIEF MESSAGE WILL FLASH *
* ON THE SCREEN AND THE MODULE WILL ALLOW FOR A NEW JOB NUMBER ENTRY. *
* Written by Christine McDougal, Computer Programmer, U. S. Geological *
* Survey, BOEG, Sept. 1984 *
*****

CLEAR
SET PRINT OFF
SET BELL OFF
SET EXACT ON
,ERASE
SELECT PRIMARY
USE D:GETNEW INDEX E:NEWTMP
STORE "Y" TO CONTINUING
DO WHILE !(CONTINUING)="Y"
STORE T TO FLAG
DO WHILE T
* ENTER JOB NUMBER
STORE ' ' TO MJOBNMBR
ERASE
@ 5,6 SAY 'ENTER JOB NUMBER ' GET MJOBNMBR PICTURE '99999'
@ 9,6 SAY 'ENTER A BLANK TO EXIT '
READ
IF MJOBNMBR=' '
RETURN
ENDIF MJOBNMBR=' '

* SEARCH IN TEMPORARY FILE FOR JOBNUMBER
SELECT PRIMARY
FIND &MJOBNMBR
IF # <> 0
@ 23,1 SAY "THAT ENTRY IS ALREADY ON FILE."
@ 23,60 SAY CHR(7)
STORE 1 TO XX
DO WHILE XX<35
STORE XX+1 TO XX
ENDDO WHILE XX<70
LOOP
ENDIF #<>0

*SEARCH IN MASTER FILE FOR JOBNUMBER
SELECT SECONDARY
USE D:JOBLST INDEX E:JOBNOS
FIND &MJOBNMBR
IF # <> 0
@ 23,1 SAY "THAT ENTRY IS ALREADY ON FILE."
@ 23,60 SAY CHR(7)
STORE 1 TO XX
DO WHILE XX<35
STORE XX+1 TO XX
ENDDO WHILE XX<70
LOOP
ENDIF #<>0 IN MAIN FILE

*RETURN TO TEMP. FILE TO BLANK OUT THE FIELDS AND THEN DO APPENDING.
SELECT PRIMARY
USE D:GETNEW INDEX E:NEWTMP
STORE " " TO FILENMBR

```

```

STORE " " TO JOBNMBR
STORE " " TO BTAG,ETAG
STORE " " TO NMBR:SMPL
STORE " " TO SMPL:MEDIA,COORD,CHEM,SPEC,GEO,F:A,H2O
STORE " " TO PROJ:NAME
STORE " " TO COMMENT
ERASE

```

```

GOTO BOTTOM
APPEND BLANK
@ 1,1 SAY "FILE"NUMBER
@ 1,7 GET FILENMBR PICTURE "999"
@ 1,20 SAY "JOB NUMBER"
@ 1,32 GET MJOBNMBR PICTURE "99999"
@ 3,1 SAY "BEGINNING TAG NUMBER"
@ 3,23 GET BTAG PICTURE "XXX999"
@ 5,1 SAY "ENDING TAG NUMBER"
@ 5,23 GET ETAG PICTURE "XXX999"
@ 7,1 SAY "NUMBER OF SAMPLES" SAMPLE MEDIA COORDINATES"
@ 7,19 GET NMBR:SMPL
@ 7,38 GET SMPL:MEDIA PICTURE "X"
@ 7,54 GET COORD
@ 9,1 SAY "CHEM SPEC GEO F:A H2O"
@ 9,6 GET CHEM PICTURE "X"
@ 9,15 GET SPEC PICTURE "X"
@ 9,23 GET GEO PICTURE "X"
@ 9,32 GET F:A PICTURE "X"
@ 9,40 GET H2O PICTURE "X"
@ 11,1 SAY "COMMENTS"
@ 11,10 GET COMMENT
READ

```

```

* ADD NEW JOB TO GETNEW FILE WHICH IS TEMP FILE WHICH WILL BE ADDED TO TAB

REPLACE FILENMBR WITH FILENMBR,JOBNMBR WITH VAL(MJOBNMBR),BTAG WITH BTAG,;
      ETAG WITH ETAG,NMBR:SMPL WITH NMBR:SMPL,SMPL:MEDIA WITH SMPL:MEDIA,;
      COORD WITH COORD,CHEM WITH CHEM,SPEC WITH SPEC,GEO WITH GEO
REPLACE F:A WITH F:A,H2O WITH H2O,COMMENT WITH COMMENT
?
? "DO YOU WANT TO ADD MORE JOBS?(Y/N)"
?
WAIT TO ACTION CONTINUING
IF !(ACTION) ="Y"
  LOOP
ELSE
  STORE "N" TO CONTINUING
  ?
  ? "1. UPDATE TO THE MASTER FILE."
  ?
  ? "2. QUIT"
  ?
  WAIT TO ACTION
  IF ACTION ="1"

```

```

*UPDATE GETNEW TO TAB FILE

? 'THE TEMPORARY FILE IS NOW BEING ADDED TO THE MASTER FILE.'
USE D:TAB INDEX E:JOBS,E:TABFIL
APPEND FROM D:GETNEW
USE D:JOBLST INDEX E:JOBNO$
APPEND FROM D:GETNEW
USE D:GETNEW
SKIP
DELETE NEXT 800
PACK
USE D:GETNEW
INDEX ON JOBNHR TO E:NEWTMP
ERASE
RETURN
ENDIF ACTION = '1'

IF ACTION = '2'
ERASE
RETURN
ENDIF ACTION APPENDING
STORE F TO AGAIN
ENDDO WHILE CONTINUING
ENDIF
RETURN
STORE F TO AGAIN
ENDDO WHILE T
RELEASE ALL
ERASE
RETURN

```