GEODIAL USERS GUIDE

J.R. MacGillivray

OPEN FILE REPORT 1986 - 21

4 Ni . 1026

# TABLE OF CONTENTS

INTROD	UCTION	1
PRELIM	INARIES	1
	Getting Connected	1
	Signing On	2
	Selecting GEODIAL	4
DATA BA	ASE STRUCTURE	4
	Elements and Indicies	4
	The Browse Command	7
SEARCH	ING GEODIAL	9
	The Find Command	9
	Logical Operators	9
	The Use of Parentheses	10
	Rational Operators and the ALSO Command	11
	The BACKUP Command	12
DISPLAY	ING THE RESULT	13
	The TYPE Command	13
	Print Formats	13
SIGNING	OFF	17
SEARCH	ASSIST FEATURES	17
	Abbreviation and Truncation	17
	Help and Explain Functions	19
	The SEQUENCE Command	19
REFEREN	CES	21

#### INTRODUCTION

GEODIAL, a bibliographic data base of Alberta geoscience reports is operated by the Alberta Geological Survey Department of the Alberta Research Council. It is made publicly available through the Stanford Public Information Retrieval System (SPIRES), a data base management system on the University of Alberta's Amdahl computer. All on-line users must have a valid sign-on with the University's Computing Services Department.

This report is intended to briefly convey how a GEODIAL literature search is conducted. It assumes the reader has basic familiarity with the operation of a computer terminal. For more specific information on any aspect, please contact the Geological Survey Department of the Alberta Research Council. The references listed at the end of this manual are useful for more detailed information on MTS and SPIRES.

GEODIAL shares its data with, and receives data from GEOSCAN, the national geologic data base managed by the Geological Survey of Canada.

#### **PRELIMINARIES**

#### GETTING CONNECTED

Direct connection to the University computer is available through the following dial-ups: 300 baud, 432-4811; 1200 baud, 432-2266. To establish contact at 300 baud hit the return key: RETURN for 1200 baud use either the capital  $\underline{C}$  or ].

Remote access to the computer is also available through Datapac, which provides networking services throughout North America. Datapac phone numbers for Alberta are:

	300 Baud	1200 Baud
EDMONTON	420-0185	423-4463
CALGARY	264-9340	232-0213
RED DEER	343-7200	342-2208
LETHBRIDGE	329-8655	327-2004
GRANDE PRAIRIE	539-5990	-
FORT McMURRAY	791-2884	•

When a high-pitch tone is received either place the phone in the acoustic-coupler or press the data button on the data phone. Operation will be dependent on the type of modem used. To connect with Datapac enter: <a href="RETURN">RETURN</a>. Set either the local echo of the terminal on, or after Datapac replies enter the command: <a href="SET 2:1">SET 2:1</a>. The access code for the University of Alberta is 6010 0010. After entering this the University computer will issue a greeting message.

## SIGNING ON

After having established contact with the University computer it will request that you identify the terminal by entering a terminal I.D. A list of the terminal I.D.s available and their characteristics follows:

Terminal Type	Line Length	Page Size
AED 512	63	39
Anderson Jacobsen 832	132	20
Anderson Jacobsen 510		23
Apple II	•	23
	· ·	23
• •	·	23
		23
	· ·	23
		24
•	_	20
		31
• • • • • • • • • • • • • • • • • • • •		1
• • •		24
• ,		
		24
		20
		-
		20
		23
	79	23
Hewlett Packard 9845	79	20
Lectromedia 100 series	79	23
	AED 512 Anderson Jacobsen 832 Anderson Jacobsen 510 Apple II Apple IIc Cybernex APL 100 Commodore 64 Datamedia 1520 Datapoint Diablo type mechanisms Digital Equipment GT40 Digital Equipment GT44 Hyperion IBM PC IBM Equipment LA36 IBM Equipment LA120 General Electric 300 Hewlett Packard 2641 Hewlett Packard 9845	AED 512 Anderson Jacobsen 832 Anderson Jacobsen 510 Apple II Apple II Apple II Apple II Cybernex APL 100 Commodore 64 Batamedia 1520 Datamedia 1520 Diablo type mechanisms Digital Equipment GT40 Hyperion BM PC IBM Equipment LA36 IBM Equipment

LANP400	Lanparscope 400	78	24
OP1R	Ontel OP1/R	255	
ORION	ORION	62	31
PET	Commodore PET	39/255	23
TTY	Teletype (default type)	72	20
T4010	Tektronix 4010	73	35
T1700	Texas Instruments 700	79	20
T1745	Texas Instruments 745	80	20
TRS80	Radio Shack TRS80	64	15
TVI	TeleVideo	79	23
T4015	Tektronix 4015	73	35
T4013	Tektronix 4013	73	35
VC414	Volker-Craig 414	79	23
VT61	Digital Equipment VT61	79	23
VT100	Digital Equipment VT100	132	32
VUCOM1	Vucom1	80	15
WS78	Digital Equipment WS78	6	
	(Work Station 78)	79	23

If the terminal I.D. is unknown enter a carriage return and the computer will default to the teletype I.D. (TTY). As this list is being updated by the University on an irregular basis a new listing may be generated by issuing the command: <u>LIST \*TERMINALIDS</u>. To reset the terminal I.D. after signon use the command: <u>%TERMINAL=XXXX</u>, where <u>XXXX</u> represents the terminal I.D.

Signon I.D.'s are available from Computing Services at the University of Alberta. Also issued with the I.D. is a password that the user may change at any time. The password provides security for the account and changing it periodically is recommended. The command: <a href="SET PASSWORD">SET PASSWORD</a> will lead the user through a series of prompts that will allow the user to change the password. An example of a signon to the University of Alberta computer follows, XXXX represents the signon I.D. and YYYY the password.

UNIV OF ALBERTA COMPUTING SERVICES (B)
MTS (15496-BF04/OE/CD)
%Enter Terminal ID vt100
%OK.
%OK.
#signon XXXX
#Password?
? YYYY
#Term,Low,External/Educational
#last signon was at 13:24:40, Thu Mar 27/86

#User HAME signed on at 10:21:12, Fri Mar 28/86

The University of Alberta's operating system is known as MTS, the Michigan Terminal System. All MTS commands are prompted by #. When this prompt is returned after signon the SPIRES program may be run.

#### SELECTING GEODIAL

GEODIAL is one of a number of data bases in the University of Alberta's SPIRES (Standard Public Information Retrieval System) data base management system. To run SPIRES enter the command: RUN \*SPIRES. The computer will reply with the version of SPIRES being run, any messages that may be present, and the SPIRES prompt. If at any time the prompt reverts to # it will be necessary to start over again with the RUN \*SPIRES command as you will have lost SPIRES and returned to the command language MTS. To select GEODIAL enter the command: SELECT GEODIAL. When the prompt -> returns the data base has been selected and searching may commence.

An example of running the SPIRES program and selecting the GEODIAL data base follows:

#RUN \*SPIRES #10:23:37 -Welcome to SPIRES 86.02 ->SELECT GEODIAL

#### DATA BASE STRUCTURE

## **ELEMENTS AND INDICIES**

GEODIAL contains bibliographic information on geoscience reports in Alberta. To organize this information the reports are broken down into their component elements. A list of these elements may be obtained by issuing the command: SHOW ELEMENT NAME. Note that both the full term and the abbreviation for each element is given.

-> SHOW ELEMENT NAME Subfile GEODIAL IDENTIFIER, ID DATE-ADDED, DA DATE-UPDATED, DU DATE, D TITLE, T, TI AVAILABILITY, AV AUTHOR, A, AU PERMIT-NO, PERMIT, PN LOCALE, DLS, L, NTS GROUP-CODE, DOCUMENT-TYPE, DT, GC OUTPUT-CONTROLS, OC OBSELETE COMMODITY, C, CO KEYWORDS, K, KE REPORT-NO, REPORT, RN REMARKS, R, REM CORP-AUTHOR, CA JOURNAL, JO

A brief explanation of each of these elements follows.

Identifier - Each record is assigned a unique number. This is used for data base management and is of little interest for those searching the data base.

Date-added - The date the record was added to the data base.

Date-updated - The date of the most recent modification to the record.

Date - Publication date of the report.

Title - Report title plus additional information on author, type of publication, number of pages and figures.

Availability - Where a copy of the report may be reviewed.

Author - The author or authors of the report.

Permit-no - The exploration permit number assigned to assessment reports.

Locale - The NTS map sheets covered by the report. For reports on smaller areas such as assessment reports, the township and range is also given.

Group-code/document-type - The type of document the report is. Examples include published reports, theses, serial literature.

Output/controls - Broad subject categories, examples include

stratigraphy, surficial geology, geophysics.

Obsolete - This element is a spare element not in current use in the data base.

Commodity - The economic mineral commodity referred to within a report.

Keywords - Concept terms within the report.

Report-no - An internal filing number assigned by the Alberta Geological Survey.

Remarks - Any comments, such as release dates, that may be of importance concerning the record.

Corp-author - The corporate association of the author, or the company responsible for the report when the author is not named. This element is now obselete and should not be used in searching.

Journal - The journal in which the report is published.

Not all of these elements can be applied to any one report. All reports have an identifier, a data-added, date-updated, date and title. The other elements are used where they are applicable.

For efficient searching of GEODIAL some elements are organized as indices. A SPIRES index may be compared directly to an index in the back of a book. Instead of having to examine every page of a book to see if a certain topic is covered, one can look in the index at the back and be referred to specific pages. A bibliographic data base's indices operate in the same fashion. Rather than searching record by record to see if it contains a specific term, an index may be used that refers directly to those records that are relevant. In this way searching can proceed in an orderly manner. A list of the GEODIAL indices may be obtained by the command: SHOW INDEX.

-> SHOW INDEX

Goal Records: REPORT

Simple Index: DOCUMENT-TYPE, DT

Simple Index: A, AUTHOR

Sub-Index: NULL

Simple Index: DLS, L, LOCALE, NTS

Simple Index: K, KEYWORD

Simple Index: C, CO, COMMODITY

Simple Index: CA, CORP-AUTHOR

The first information displayed by the show index command is the goal record. This is the type of record the data base contains. GEODIAL is bibliographic in nature so each record is a report. The document type, author, locale, commodity and corporate author indicies contain the information as explained within the preceding description of elements. The keyword indice combines the output controls and the keyword elements.

## THE BROWSE COMMAND

To examine the contents of any one index the BROWSE command is used. This command may take a number of forms. It is possible to examine a sample of the index, to examine the entire index either forwards or backwards, or to examine the index for any one specific value. Examples and explanations of the various <u>BROWSE</u> commands follow.

BROWSE index name - This command will list eight terms from the index selected. It is a useful command if one is unsure of what an index contains.

->BROWSE LOCALE
TP001 R28W4M
TP043 R17W4M
TP098 R04W4M
TP111 R04W4M
031J/SE
074M/16
084N/SE

BROWSE FIRST index name - A list of the first ten occurrences within the index will be produced and the computer will issue the prompt -MORE? If a reply of YES is given an additional ten occurrences will be listed and the prompt will once again appear. If NO is given, the browse will terminate.

->BROWSE FIRST COMMODITY
ABSORBENTS
ALUM
ALUMINA
BARITE
BENTONITE
CLAY AND SHALE
COAL
COPPER

COQUINA
DIATOMITE
-More?YES
DIMENSION STONE
DOLOMITE
FLY ASH
FORMATION WATER
GENERAL
GOLD
GYPSUM
INDEX
IRON
LEAD-ZINC
-More?NO

BROWSE LAST index name - This command will produce a list of the last ten occurrences of the index. A YES reply to the -MORE? prompt will list the ten preceeding occurrences.

->BROWSE LAST AUTHOR
ZEMGALS
ZHELTONOGOVA
ZIEBARTH
ZIEGLAR
ZIEGLER
ZIEHLKE
ZIKMUNDOVA
ZINCHENKO
ZINKAN
ZUBTSOV
-More?NO

BROWSE index name term - By issuing this command the browse will commence five occurrences before the term specified. The prompt -MORE? will be issued and the browse may continue.

->BROWSE KEYWORD STRATIGRAPHY
STRATIGRAPHIC CORRELATIONS
STRATIGRAPHIC NOMENCLATURE
STRATIGRAPHIC SECTIONS
STRATIGRAPHIC TRAP
STRATIGRAPHIC TRAPS
STRATIGRAPHY
STREAM CHANNELS
STREAM FLOW
STREAM SEDIMENT GEOCHEMISTRY
STREAMFLOW
-More?NO

SEARCHING GEODIAL

#### THE FIND COMMAND

In SPIRES the search statement asks the computer to locate all occurrences of a specified search term in an index. It takes the form  $\overline{\text{FIND}}$  index name search term.

Example: To find all reports on the Bearpaw Formation:

-> FIND KEYWORD BEARPAW FM

- Result: 176 REPORTS

This search locates all references in GEODIAL that are on the Bearpaw Formation. To carry it a step further, it could be required to add all the references that are on the Horseshoe Canyon Formation. A second search command can be issued that will add to the original result.

->OR KEYWORD HORSESHOE CANYON FM -Result: 188 REPORTS

A search completed in steps such as this is known as an iterative search. This search could be combined on a single line.

->FIND KEYWORD BEARPAW FM OR KEYWORD HORSESHOE CANYON FM -Result: 188 REPORTS

This search can be further simplified. As both search terms are from the same index, it is not necessary to specify the index both times.

->FIND KEYWORD BEARPAW FM OR HORSESHOE CANYON FM -Result: 188 REPORTS

## LOGICAL OPERATORS

The previous searches all make use of the logical operator "or". Within SPIRES, search statements may be combined by use of the logical operations and, or, and and not. A brief explanation of each of these follows.

AND The AND operation requires that both conditions specified be present.

Example:

->FIND KEYWORD BEARPAW FM AND HORSESHOE CANYON FM

-Result: 11 REPORTS

This search will find all the records in GEODIAL that are on both the Bearpaw Fm and the Horseshoe Canyon Fm.

OR

The OR operation requires that only one of the conditions specified be present. This is an inclusive or, so it will also find those records where both conditions are present.

# Example:

FIND KEYWORD BEARPAW FM OR HORSESHOE CANYON FM -Result: 188 REPORTS

All reports that contain either the Bearpaw Formation or the Horseshoe Canyon Formation or both are retrieved.

AND NOT

The AND NOT operation requires the first condition specified must be present and the next condition must be absent.

### Example:

->FIND KEYWORD BEARPAW FM AND NOT HORSESHOE CANYON FM -Result: 165 REPORTS

All reports on the Bearpaw Formation are located and then those with information on the Horseshoe Canyon Formation are excluded.

## THE USE OF PARENTHESES

It was mentioned earlier that in searching GEODIAL, individual commands may be given or the search combined into a single line.

## Example:

->FIND KEYWORD BEARPAW FM

-Result: 176 REPORTS

->OR HORSESHOE CANYON FM

-Result: 188 REPORTS

->FIND KEYWORD BEARPAW FM OR HORSESHOE CANYON FM

-Result: 188 REPORTS

If more than two conditions are specified for a search, special care must

be taken to avoid any logical errors. In single line searches parentheses are used to group logical expressions in much the same way as they are used in mathematics. A search statement without parentheses will be evaluated in a left to right order.

For example, a search is required of NTS map sheet 83H for all reports on the Bearpaw and Edmonton Formation. If the search statement is structured exactly as written without the use of parentheses we will get an erroneous result.

-->FIND LOCALE 083H# AND KEYWORD BEARPAW FM OR EDMONTON FM -Result: 194 REPORTS

As this statement is written, the data base is searched for all reports on Locale 83H that also contain the keyword Bearpaw Fm. Next all the reports in GEODIAL on the Edmonton Formation are added to the result. This is clearly not the original intent of the search. By using the parentheses to group the search concepts we can correct the problem.

->FIND LOCALE 083H# AND (KEYWORD BEARPAW FM OR EDMONTON FM)
-Result: 24 REPORTS

The computer will evaluate inside the parentheses first. This search will locate all the reports in GEODIAL on either the Bearpaw Formation, the Edmonton Formation or both and then retain only those that fall in 83H.

RATIONAL OPERATORS AND THE ALSO COMMAND

In addition to the logical operators AND, OR and AND NOT, search strategies may also employ the rational operators =,> , < and  $\neq$ . While the other operators have keys,  $\neq$  may be entered as either = or = depending on the terminal used. If no rational operator is specified SPIRES will always default to =.

## Example:

->FIND KEYWORD BEARPAW FM -Result: 176 REPORTS ->FIND KEYWORD=BEARPAW FM -Result: 176 REPORTS

The most common use in GEODIAL of the rational operators is when a search result is being narrowed by the use of its publication date. For example, a search is required to find all information on the Bearpaw Formation since 1975. In order to do this a new command, the <u>ALSO</u> command, must be used. The <u>ALSO</u> command is used for searching a non-indexed element, as date is in GEODIAL. It can be applied only to an already existing search result. It is further restricted in its usage in that it must appear at the beginning of a new line and may not be clustered within parentheses.

# Example:

->FIND KEYWORD BEARPAW FM -Result: 176 REPORTS ->ALSO DATE>1975 -Result: 13 REPORTS

In this search, all reports on the Bearpaw Formation are found. The result being 176 reports. The  $\underline{ALSO}$  command then searches only this result to find all those reports with a date greater than 1975.

#### THE BACKUP COMMAND

If uncertain about the search strategy being employed an iterative search may be conducted with one or more search terms per line. Should an error occur in such a search, the  $\underline{BACKUP}$  command can be used to return to the previous result. If a search has a number of lines  $\underline{BACKUP}$  may be used to return all the way to the original result.

For example, suppose we wish to perform a search that will find all reports on either the Bearpaw Formation or the Horseshoe Canyon Formation, and by mistake we use  $\underline{\mathsf{AND}}$  in the search instead of OR.

->FIND KEYWORD BEARPAW FM

-Result: 176 REPORTS

->AND KEYWORD HORSESHOE CANYON FM

-Result: 11 REPORTS

->BACKUP

-Result: 176 REPORTS

->OR KEYWORD HORSESHOE CANYON FM

-Result: 188 REPORTS

## DISPLAYING THE RESULT

## THE TYPE COMMAND

Having obtained a search result the next step is to display it. The  $\underline{\mathsf{TYPE}}$  command will display at the terminal all the records in a result.

# Example:

->FIND KEYWORD HORSESHOE CANYON FM

-Result: 23 REPORTS

->TYPE

THE STRUCTURE AND RELATIONSHIPS OF THE HORNED DINOSAUR ARRHINOCERATOPS PARKS (ORNOTHISCIA: CERATOPSIDAE). H. TYSON, CAN. J. EARCH SCI. VOL 18(8) PAGES 1241-1247 (1981), 17 REF. ISSN. 0008-4077. (702784)

SPOIL HYDROLOGY AND HYDROCHEMISTRY AT THE BATTLE RIVER SITE IN THE PLAINS OF ALBERTA, BY S.R. MORAN AND M.R. TRUDELL, ALBERTA RESEARCH COUNCIL CONTRIBUTION SERIES 1188, FROM 1982 SYMPOSIUM ON SURFACE MINING HYDROLOGY, SEDIMENTOLOGY AND RECLAMATION, UNIVERSITY OF KENTUCKY, DECEMBER 5-10, 1982, 1983. (702627)

FACIES RELATIONSHIPS AND PALEOENVIRONMENTS OF A LATE CRETACEOUS TIDE-DOMINATED DELTA, DRUMHELLER, ALBERTA. A FIELD GUIDE, BY R.A. RAHMANI, EDMONTON GEOL SOC FIELD CONFERENCE GUIDE BOOK, OCTOBER 1981, 43 PAGES (801690)

# PRINT FORMATS

This display format, which includes the title, author, document

name, number of pages and figures, I.D. and remarks, is called the TITLE format and is the GEODIAL default print format. Other useful display formats are the EXPD-TITLE (expanded title) and the REPORT formats.

EXPD-TITLE This format displays the title, author, document name, number of pages and figures, I.D. and remarks in a block as did the title format. It also lists the output control, keywords and localities.

REPORT The REPORT format will list I.D., document type, title block, availability, report number, author, corporate author, localities, output controls and keywords.

To change the format enter the <u>SET FORMAT format name</u> command. In the following example, we will perform a search to find a reference for a report written by the author Don Macdonald and containing x-ray diffraction analyses of marl samples. The result will be displayed initially in the default title format and then the EXPD-TITLE and REPORT formats.

->FIND AUTHOR MACDONALD AND (KEYWORD MARL AND X-RAY DIFFRACTION ANALYSES)
-Result: 1 REPORT
->TYPE

MARL RESOURCES OF ALBERTA, D.E. MACDONALD, ALBERTA RES COUN EARTH SCI REPT 82-1, 1982. 94PP, 38 FIG. (703000)

->SET FORMAT EXPD-TITLE ->TYPE

MARL RESOURCES OF ALBERTA, D.E. MACDONALD, ALBERTA RES COUN EARTH SCI REPT 82-1, 1982, 94PP, 38 FIG. (703000)

ALBERTA
ALBERTA RESEARCH COUNCIL
ECONOMIC GEOLOGY
INDUSTRIAL MINERALS

CALCITE
CROSS SECTIONS
MICRITES
SCANNING ELECTRON MICROGRAPHS
TUFA
X-RAY FLUORENSCENCE ANALYSES

CHEMICAL ANALYSES
MARL
MINERAL DEPOSITS
SURFICIAL GEOLOGY
X-RAY DIFFRACTION ANALYSES

073D 073E 073L 0820 082P 083A 083B 083C 083E 083F 083G 083H 083I 083J 083K 083L 083M 083N 084C 084D

->SET FORMAT REPORT

->TYPE

IDENTIFIER:

70300

COMMODITY(S):

MARL

DOCUMENT-TYPE:

PUBLISHED REPORT

TITLE:

MARL RESOURCES OF ALBERTA, D.E. MACDONALD, ALBERTA RES COUN EARTH SCI REPT 82-1, 1982. 94PP, 38 FIG.

AVAILABLE:

ALBERTA RESEARCH COUNCIL, ALBERTA GEOLOGICAL SURVEY

438-0555

REPORT-NO:

ALBERTA RES COUN EARTH SCI REPT 82-1

AUTHOR(S):

MACDONALD, D.E.

CORP-AUTHOR(S):

LOCALE(S):

073D

073L 082P

083B

083E

083G

083I

083K

083M

084C

073E

0820 083A

UOSA

083C

083F

083H 083J

083L

083N

084D

OUTPUT-CONTROL(S): ALBERTA

ALBERTA RESEARCH COUNCIL

ECONOMIC GEOLOGY
INDUSTRIAL MINERALS

KEYWORD(S): CALCITE

CROSS SECTIONS
CHEMICAL ANALYSES

MARL

MINERAL DEPOSITS

**MICRITES** 

SCANNING ELECTRON MICROGRAPHS

SURFICIAL GEOLOGY

TUFA

X-RAY DIFFRACTION ANALYSES X-RAY FLUORESCENCE ANALYSES

If a listing of the entire contents of a record is desired, all GEODIAL formats may be cleared and the default SPIRES format used. To clear the formats the CLEAR FORMATS command is used.

## Example:

->CLEAR FORMATS

->TYPE

IDENTIFIER = 703000; DATE-ADDED = 03/28/86; DATE-UPDATED = 03/28/86;

DATE = 1982;

TITLE = MARL RESOURCES OF ALBERTA, D E MACDONALD, ALBERTA RES COUN EARTH SCI REPT 82-1, 1982, 94PP, 38 FIG.;

AVAILABILITY = ALBERTA RESEARCH COUNCIL, ALBERTA GEOLOGICAL SURVEY 438-0555;

AUTHOR = MACDONALD, D E;

LOCALE = 073D

LOCALE = 073L;

LOCALE = 082P;

LOCALE = 083B;

LOCALE = 083E;

LOCALE = 083G;LOCALE = 083I;

LOCALE = 083K;

LOCALE = 083M;

LOCALE = 084C;

LOCALE = 073E;

LOCALE = 0820;

LOCALE = 083A;

LOCALE = 083C;LOCALE = 083F;

LOCALE = 083H;

LOCALE = 083J;

LOCALE = 083L;

LOCALE = 083N: LOCALE = 084D; GROUP-CODE = PUBLISHED REPORT; OUTPUT-CONTROLS = ALBERTA; OUTPUT-CONTROLS = ALBERTA RESEARCH COUNCIL; OUTPUT-CONTROLS - ECONOMIC GEOLOGY; OUTPUT-CONTROLS - INDUSTRIAL MINERALS; COMMODITY = MARL; KEYWORDS = CALCITE; KEYWORDS = CROSS SECTIONS: KEYWORDS = CHEMICAL ANALYSES: KEYWORDS = MARL;KEYWORDS = MINERAL DEPOSITS: KEYWORDS = MICRITES; KEYWORDS = SCANNING ELECTRON MICROGRAPHS: KEYWORDS = SURFICIAL GEOLOGY: KEYWORDS = TUFA: KEYWORDS = X-RAY DIFFRACTION ANALYSES; KEYWORDS = X-RAY FLUORESCENCE ANALYSES;

To return to one of the GEODIAL formats the <u>SET FORMAT format name</u> command reviewed earlier is used.

## SIGNING OFF

REPORT-NO = ALBERTA RES COUN EARTH SCI REPT 82-1;

Having completed the search, the sign off procedure consists of first exiting SPIRES and then signing off and disconnecting from the University computer. To exit SPIRES, issue the command: STOP. This will end the SPIRES program and return you to MTS. To sign off from MTS enter SIGNOFF and the computer will display the user statistics for that session and disconnect.

#### SEARCH ASSIST FEATURES

#### ABBREVIATION AND TRUNCATION

All common SPIRES searching commands may be abbreviated to the first three letters. For example,  $\underline{FIND}$  may be  $\underline{FIN}$ ,  $\underline{TYPE}$  becomes  $\underline{TYP}$  and  $\underline{FORMATS}$  is  $\underline{FOR}$ . In addition to the commands the elements and indexes may

be shortened to the terms specified by the <u>SHOW ELEMENT NAMES</u> (<u>SHO ELE NAM</u>) command. <u>ID</u> may be used for <u>IDENTIFIER</u>, <u>K</u> for <u>KEYWORDS</u>, or <u>C</u> for <u>COMMODITY</u>.

Within GEODIAL, search terms may also be shortened by use of a truncation symbol #. This symbol will cause SPIRES to search for all search terms with the root that has been specified.

Example:

STRATI# includes STRATIFIED ORE DEPOSITS
STRATIGRAPHIC CHARTS
STRATIGRAPHIC CORRELATIONS
STRATIGRAPHIC NOMENCLATURE
STRATIGRAPHIC SECTIONS
STRATIGRAPHY

Care must obviously be taken when using the truncation sign to avoid the inclusion of irrelevent search terms. The following example is a search for all surficial geology reports in map sheet 83H. It makes use of both abbreviation and truncation.

#RUN \*SPIRES #11:05:12

- -Welcome to SPIRES 86.02
- ->SEL GEODIAL
- ->FIN K SURFIC# AND L 083H#
- -Result: 72 REPORTS
- ->TYP

MARL RESOURCES OF ALBERTA, D E MACDONALD, ALBERTA RES COUN EARTH SCI REPT 82-1, 1982, 94PP, 38 FIG. (703000)

DETAILED SOIL SURVEY OF THE CALMAR, THORSBY, WARBURG, BRETON, AND DRAYTON VALLEY AREAS, M. SCHEELAR, ALBERTA RES. COUN. OPEN FILE 1983-025. 1983, 88 PAGES, 3 FIG., 24 REF. (702747)

THE WISCONSINAN DEGLACIATION OF SOUTHERN SASKATCHEWAN AND ADJACENT AREAS: DISCUSSION, D A ST-ONGE, CAN. J. EARTH SCI. VOL. 17(2) P287-288, 1980. 2 REF. ISSN 0008-4077 (702236)

LATE PLEISTOCENE MAMMALS FROM CENTRAL ALBERTA, CANADA, BY W A FULLER AND L A BAYROCK, ALBERTA RESEARCH COUNCIL CONTRIBUTION SERIES 296, FROM VERTEBRATE PALEONTOLOGY IN ALBERTA - REPORT, CONFERENCE HELD AT THE UNIVERSITY OF ALBERTA, AUG-SEPT 1965, P 53-63, 1965 (702528)

->STO #11:06:09 T=0.264 RC=0 #SIG

#### HELP AND EXPLAIN FUNCTIONS

If, in conducting a SPIRES search, confusion arises as to what has been done or should be done next, the  $\underline{\text{HELP}}$  command may be used. Upon entering  $\underline{\text{HELP}}$  a list of the search steps to that point will be generated and a suggestion of what action to take next will be given.

```
-> FIND K SURFICIAL GEOLOGY
-Result: 567 REPORTS
->AND L 083H#
-Result: 72 REPORTS
->OR L 083I#
-Result: 156 REPORTS
->HELP
* You have subfile "GEODIAL' selected.
* The 'TITLE' format is set.
-No stack exists
-Result: 156 REPORTS
* Your search result was obtained as follows:
FIND K SURFICIAL GEOLOGY
AND L 083H#
OR L 083I#
* To find out how to display your results, issue the commands:
* EXPLAIN TYPE COMMAND
```

In addition to the <u>HELP</u> function, SPIRES also will explain a number of terms. The <u>EXPLAIN</u> function operates by asking SPIRES to <u>EXPLAIN</u> term. It will list a number of terms if they share a similar root or will immediately explain the term asked for.

#### THE SEQUENCE COMMAND

It is possible to order a search result alphabetically or numerically in ascending or descending order by any element or combination of elements. This is accomplished with the SEQUENCE command. The SEQUENCE command has the form: SEQUENCE element name, element name. SPIRES will sequence in ascending order by default. To sequence in descending order a (D) is appended to the term being ordered, SEQUENCE element name (D). If more than one element is specified the first one will be sequenced and where it has more than one occurrence the second element will be used.

Example: A search is to be conducted for information on the Leduc Fm. The result is to be arranged alphabetically by author, and where there is more than one paper by any author the date is to be sequenced in descending order.

-->FIND K LEDUC FM

-Result: 50 REPORTS

->SEQUENCE AUTHOR DATE(D)

-Stack: 50 reports

A point to remember about the sequence command is that it operates only on the first occurrence of multiple occurring elements. If a report has more than one author, only the first author will be used in the sequencing.

# REFERENCES

University of Alberta (1979): A Guide to Searching - A SPIRES Primer;
Computing Service Department T17.1279, December 1979, 42 pp.
(1980): MTS Introduction; Computing Service
Department 001.1180, November 1980, 52 pp.
(1982): SPIRES Searching and Updating; Computing
Services Department T14.0782, July 1982, 180 pp.
(1985): SPIRES Supplement to MTS Reference;
Computing Service Department R474.0585, May 1985, 34 pp.
(1986): SPIRES Searching Primer; Computing Service
Department TO 17.0886, August, 1986.
(1986): SPIRES Searching Intro. Class Notes;
Computing Service Department T 131.0586, May, 1986.