MRD Open File Report 78/3

MANITOBA
DEPARTMENT OF MINES, RESOURCES
& ENVIRONMENTAL MANAGEMENT
MINERAL RESOURCES DIVISION

INTRODUCTION TO THE "INDEX TO CLAIMS ASSESSMENT REPORTS"

By
H. Ambach

1978

INTRODUCTION

TO THE

"INDEX TO CLAIMS ASSESSMENT REPORTS"

MRD OPEN FILE REPORT 78/3

Manitoba Department of Mines, Resources and Environmental Management

TABLE OF CONTENTS

FIGURES

INTRODUCTION

The objective of this report is to describe the format, contents and use of the computerized "Index to Claims Assessment Reports". The Index consists of 3 cross-indexes and a general index to more than 2100 open file claims assessment reports, and is designed to simplify access to these reports by users in industry and government.

Background

The assembling of information contained in more than 3200 open and confidential claims assessment reports into a computer-based information system was started in 1975 under the Federal-Provincial Non-Renewable Resource Evaluation Program (NREP) (Ambach, 1976, 1977). The information thus obtained, is stored within the CLASS (Claims Assessment) computer file. Definition of this file is presented in Appendix A.

The assessment reports are contained in a file maintained by the Manitoba Mineral Resources Division, as the repository for all reports of exploration activity submitted to the Department. This file has grown steadily over the years (Fig. 1) with most of the work concentrated in certain parts of the Province (Fig. 2). At present these reports are classified as either "open" or "confidential", depending upon whether the mineral dispositions on which the work was done have lapsed or are in good standing, respectively.

The "Index to Claims Assessment Reports" lists only the 2100 "open" claims assessment reports. The content of the index has been modelled after the previous, manually compiled lists of (cancelled) claims assessment reports, published by the Department up to December, 1977.

Acknowledgements

Thanks are extended to the following people; Carole Iverson and Cynthia Nahnybida, who spent months initially organizing the Claims Assessment File into a logical sequence, and who summarized and coded seventy-five percent of the reports in the File; Andrea Waywanko, Jeff McLean, Steve Mailath and Sheila Keast for summarizing and coding a significant number of the reports; Sheila Ennis who completed the coding of the backlog of reports; Ted Nelson for assisting with the writing of computer programs that make up the Claims Assessment File computer system; Jim Bamburak, who provided encouragement during the development of the computer file and who has edited this report; and Debbie Navitka and Judy Elston for typing the report.

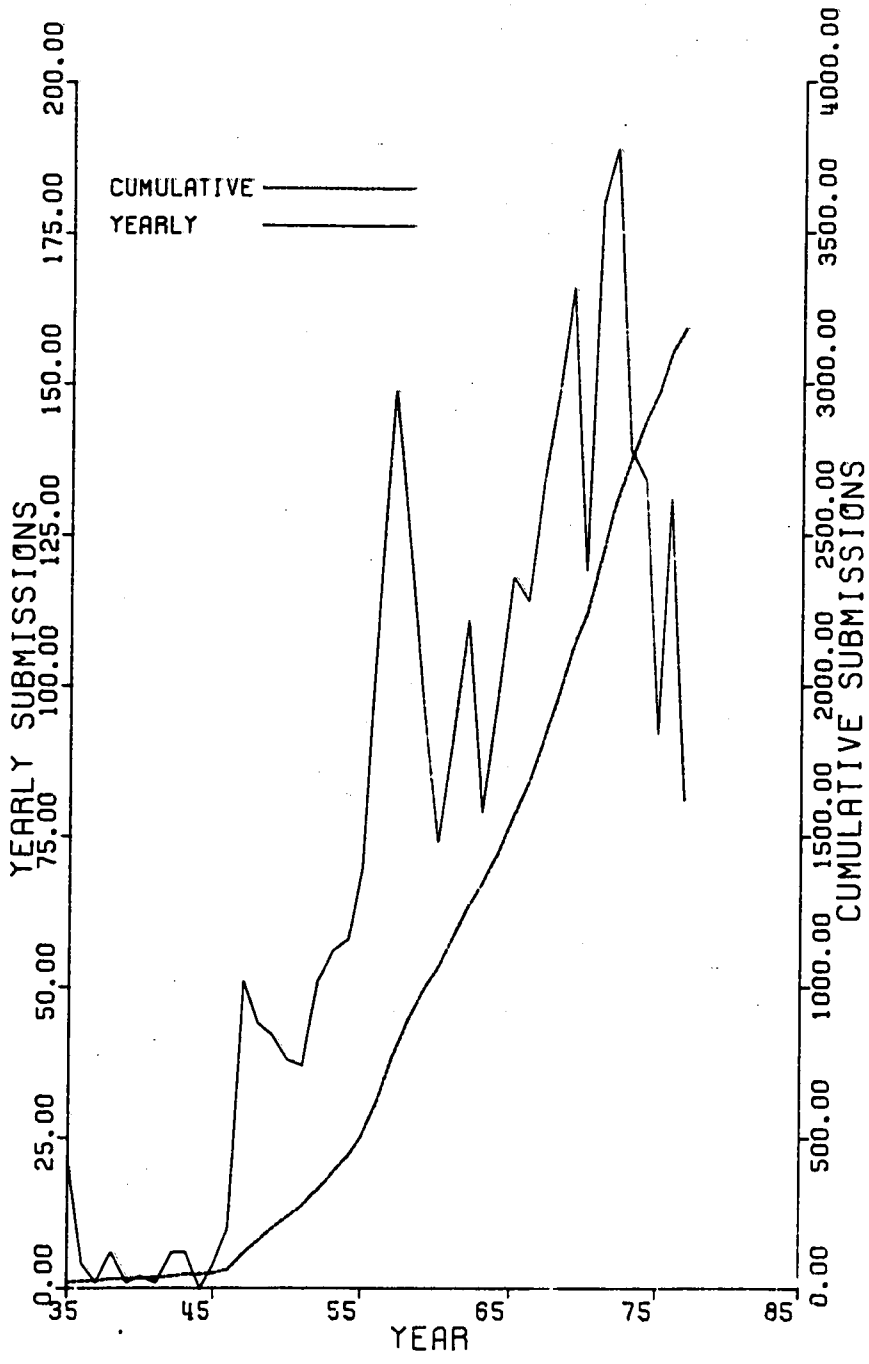

Figure 1. REPORTS OF WORK SUBMITTED
(TO YEAR ENDING DECEMBER, 1977)

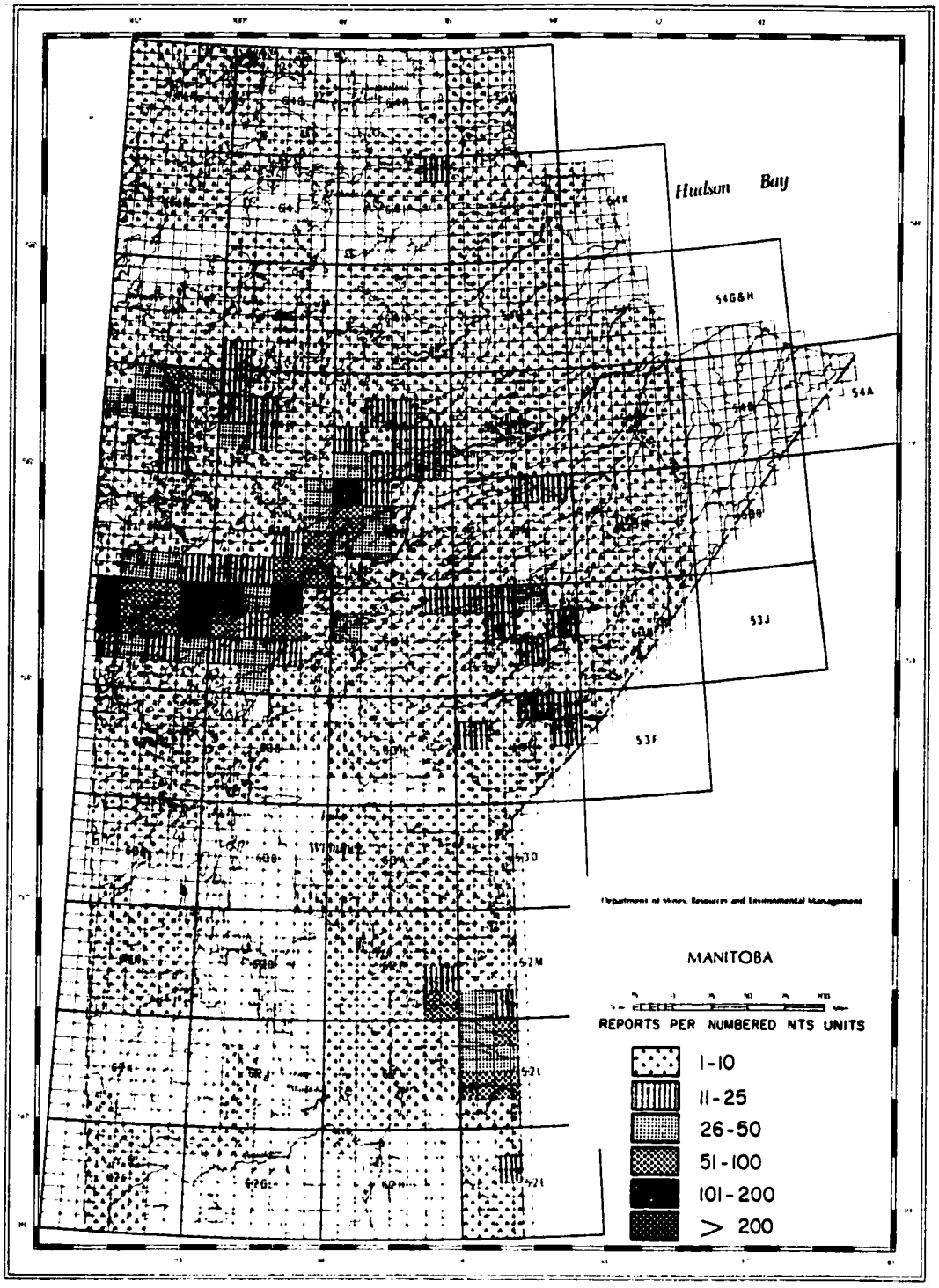

Figure 2. Assessment report density in the Province of Manitoba.

INDEX FORMAT

In order to facilitate the identification and location of reports of interest; the Index is divided into four sections: three indexes based on i) NTS area; ii) Property holder; and iii) Property name; and one section containing summaries of the Reports.

Sub-Indexes

Each of the three sub-indexes contains a listing of Claims Assessment File accession numbers identifying the reports according to i) NTS area (Fig. 3); ii) Company name (Fig. 4); and iii) Property name (Fig. 5). The five-digit accession numbers shown in these three indexes have been extended to indicate the broad categories of work which have been presented within the report. This extension has been achieved by appending an "indicator" digit to the accession number. Corresponding types of work for each of these digits are as follows:

Indicator digit	Class of work performed
1	Geophysics
2	Surface work
3	Geophysics plus surface work
4	Diamond drilling
5	Geophysics plus diamond drilling
6	Surface work plus diamond drilling
7	Geophysics, surface work and diamond drilling

Summary of Work

This section of the Index contains brief summaries of the contents of the reports, in order of Claims Assessment File accession number (Fig. 6). Data included are NTS area, Property holder, Property name, and the type, extent and date of the work performed.

It should be noted that NTS area, Property holder and Property name occur only once for each report in this section, although a report may contain information on an area larger than the NTS area listed, over more claims than the one listed, or may be held by more than the one holder listed. The decision to limit these entries to the one occurrence, for this section, was made to reduce the amount of data which would result from including the multiple entries. The second and subsequent values for each of these three items are included in the relevant sub-indexes.

EXPLORATION ACTIVITY REPORTS

78/10/05 INDEX TO NTS AREA PAGE 0001

NTS AREA	FILE NUMBERS
52L05	90008/1
52L06	90008/1
52L11	90008/1
52L12	90008/1
52L13	90008/1
52L14	90008/1
52M03	90008/1
52M04	90008/1
53E11NE	90005/1
53E11NW	90005/1
53E11SE	90005/1
53E11SW	90005/1
53E12NE	90005/1
53E12NW	90005/1
53E12SE	90005/1
53E12SW	90005/1
53E13NE	90004/1
53E13NW	90004/1
53E13SE	90004/1
53E13SW	90004/1
53E14NE	90004/1
53E14NW	90004/1
53E14SE	90004/1
53E14SW	90004/1
53E15NE	90001/6 90004/1
53E15NW	90004/1
53E15SE	90001/6 90004/1
53E15SW	90004/1
53E16NW	90001/6
53E16SW	90001/6
53K07NE	90007/1
53K07NW	90007/1
53K07SE	90007/1
53K07SW	90007/1
53K09NE	90007/1
53K09NW	90007/1
53K09SE	90007/1
53K09SW	90007/1
53K10NE	90007/1
53K10NW	90007/1
53K10SE	90007/1
53K10SW	90007/1
53L01NE	90005/1
53L01NW	90005/1
53L01SE	90005/1
53L01SW	90005/1
53L02NE	90004/1 90005/1
53L02NW	90004/1 90005/1

Figure 3. NTS area sub-index.

EXPLORATION ACTIVITY REPORTS

78/10/05 HOLDER INDEX PAGE 0001

HOLDER	FILE NUMBERS
ANDERSON,A.A.	90182/4
BARTON,J.R.	90090/4
BUCK JOSEPH	90184/4
CAMME SNOW LAKE MINES	90198/2
CANADIAN LONGYEAR	90004/1
CANADIAN NICKEL	90005/1 90008/1 90019/4 90062/4 90104/4 90148/4 90149/4 90160/4 90163/3 90170/4 90171/4 90177/4 90178/4 90191/4 90192/3 90197/4 90199/3 90200/4
CARDIFF MINING	90072/3
CLEVELAND CANADIAN EXPL.	90035/3
COMBINED DEVELOPMENTS	90075/2 90078/2 90098/2 90099/4
COMINCO	90169/3
CONSOLIDATED MINING	90042/2 90047/2
CONWEST EXPLORATION	90011/1 90020/4 90097/4
CROWN	90001/6
CYPRUS EXPLORATION	90093/4
DON MINERAL ENTERPRISE	90165/7
FALCONBRIDGE NICKEL MINES	90006/1 90023/3 90070/3 90132/3
FERGUSON,J.C.L.	90130/4
FILE LAKE EXPLORATION	90039/3
FOX,S.E.	90139/7
GREAT ISLAND PROSPECTING	90180/6 90181/4
GREAT SEAL PROSPECTING	90185/4 90186/4
GREEN BAY EXPLORATION	90118/3 90150/3
GUNNEX	90144/3 90157/3
HANES,D.A.	90120/4
HOWE SOUND EXPLORATION	90013/6
HUDSON BAY EXPL. & DEV.	90016/7 90017/3 90018/4 90021/3 90025/4 90026/4 90027/3 90028/4 90029/4 90030/4 90031/4 90032/4 90033/4 90034/3 90036/7 90037/3 90038/3 90041/3 90043/3 90044/3 90045/3 90048/3 90050/4 90053/4 90055/4 90058/7 90059/4 90060/4 90066/4 90067/7 90076/3 90077/4 90083/3 90085/4 90089/4 90100/4 90103/4 90107/3 90108/3 90119/3 90122/4 90124/3 90129/7 90133/4 90135/3 90136/4 90138/3 90140/3 90141/4 90142/3 90145/3 90146/4 90152/4 90153/3 90154/4 90155/4 90164/3 90190/3 90193/4 90196/4
HUDSON BAY MINING	90056/4 90156/4 90193/3
ICON SYNDICATE	90009/1
INTERNATIONAL NICKEL	90015/4 90087/4 90114/4 90159/4 90179/4

Figure 4. Holder sub-index.

EXPLORATION ACTIVITY REPORTS

78/10/05 CLAIMS INDEX PAGE 0001

CLAIM NAME	FILE NUMBERS
A.O.	90157/3
AA	90182/4
AMISK	90012/4
ANT	90050/4
AP#020	90002/7
AP#021	90003/1
AP#022	90004/1
AP#023	90005/1
AP#024	90006/1
AP#025	90007/1
AP#026	90008/1
AP#027	90009/1
AP#028	90010/1
AP#029	90011/1
ASTER	90131/4
B.B.	90049/4
BAY	90189/3 90190/3
BEAR	90068/4 90069/4 90070/3
BEN	90051/4 90169/3
BERRY	90021/3 90032/4 90052/4 90060/4
BET	90091/3
BIL	90133/4
BILL	90153/3 90183/6 90194/3
BIRCH	90013/6
BLACK	90197/4
BOB	90022/7 90086/3 90088/4 90134/4
BOG	90058/7
BOMBER	90018/4
BUD	90135/3 90136/4
C.N.	90071/7
CB1041	90175/3 90176/4
CB1046	90174/3
CB1047	90168/3
CB1333	90166/4
CB1406	90167/4
CB1409	90166/4
CB1782	90166/4
CB1942	90172/3
CB1944	90173/3
CCE	90035/3
CHURCHILL	90180/6
CON	90047/2
CUP	90118/3
CUPPER	90036/7 90084/4
CUR	90045/3
CHAN 2	90019/4
D	90137/4
DAT	90091/3

Figure 5. Mineral disposition sub-index.

SUMMARY OF REPORT CONTENTS

FILE	NTS	PROPERTY HOLDER	CLAIM NAME	WORK DONE	DATE	EXTENT
90001	53E15NE	CROWN	PERMIT 2	GEOCHEM.	1976	
				GEOLOGY	1976	
				23 DDH	1976	335 M
90002	63003NE	NEWMONT MINING CORP.	AP#020	A.RADIO.	1958	8870 KM
				A.MAG.	1958	8870 KM
				A.EM.	1958	8870 KM
				15 DDH	1959	1438 M
90003	62P01NE	LUNDBERG EXPLORATIONS	AP#021	A.MAG.	1958	356 KM
				A.EM.	1958	356 KM
90004	53E13NE	CANADIAN LONGYEAR	AP#022	A.MAG.	1959	5102 KM
				A.EM.	1959	5102 KM
90005	63008NE	CANADIAN NICKEL	AP#023	A.MAG.	1958	KM
90006	63J05NE	FALCONBRIDGE NICKEL MINES	AP#024	A.MAG.	1959	1358 KM
90007	53K07NE	PHELPS DODGE CORP.	AP#025	A.MAG.	1959	2245 KM
90008	54C12	CANADIAN NICKEL	AP#026	A.EM.	1959	KM
90009	53L14NE	ICON SYNDICATE	AP#027	A.RADIO.	1960	1688 KM
				A.MAG.	1960	1688 KM
				A.EM.	1960	1688 KM
90010	54D05NE	KENNCO EXPLORATIONS	AP#028	A.MAG.	1960	2949 KM
90011	63P12NE	CONWEST EXPLORATION	AP#029	A.MAG.	1960	661 KM
90012	63K16NE	RAPSON,G.	AMISK	5 DDH	1949	175 M
90013	63K16NE	HOWE SOUND EXPLORATION	BIRCH	GEOLOGY	1955	
				3 DDH	1955	579 M
90014	63K16NE	PARMAC DIAMOND DRILLING	EUCLID	1 DDH	1947	122 M
90015	63K16NE	INTERNATIONAL NICKEL	NOV	5 DDH	1966	694 M
90016	63K16NE	HUDSON BAY EXPL. & DEV.	OX	HLEM	1951	113 KM
				13 DDH	1957	1466 M
90017	63K16NE	HUDSON BAY EXPL. & DEV.	RAM	HLEM	1956	548 KM
90018	63K16SE	HUDSON BAY EXPL. & DEV.	BOMBER	4 DDH	1957	736 M
90019	63K16SE	CANADIAN NICKEL	CRAN 2	1 DDH	1951	123 M
90020	63K16SE	CONWEST EXPLORATION	DEE 2	4 DDH	1964	106 M
90021	63K16SE	HUDSON BAY EXPL. & DEV.	DIME	HLEM	1956	112 KM
90022	63K16SE	NORTHERN CANADA MINES	DOE	CONV.MAG.	1958	7 KM
				CONV.MAG.	1958	7 KM
				HLEM	1958	130 KM
				6 DDH	1956	786 M
90023	63K16SE	FALCONBRIDGE NICKEL MINES	EF	HI.SENS.MAG	1970	210 KM
				GR.APMAG.	1970	210 KM
				GEOLOGY	1972	
90024	63K16SE	SELCO EXPLORATION	JAC	HLEM	1956	18 KM
90025	63K16SE	HUDSON BAY EXPL. & DEV.	JOANNIE	22 DDH	1957	4473 M
90026	63K16SE	HUDSON BAY EXPL. & DEV.	OTTER	4 DDH	1956	452 M
90027	63K16SE	HUDSON BAY EXPL. & DEV.	OX	HLEM	1956	24 KM
90028	63K16SE	HUDSON BAY EXPL. & DEV.	PEN	15 DDH	1964	1405 M
90029	63K16SE	HUDSON BAY EXPL. & DEV.	POT	9 DDH	1960	2125 M
90030	63K16SE	HUDSON BAY EXPL. & DEV.	POT	6 DDH	1956	940 M
90031	63K16SE	HUDSON BAY EXPL. & DEV.	POT	25 DDH	1955	3800 M
90032	63K16SE	HUDSON BAY EXPL. & DEV.	ZUM	8 DDH	1956	1180 M

Figure 6. Summary of Work.

The type of work has been written in a shortened form without, in the case of geophysical surveys, listing the specific instrument. The extent of work is presented as line kilometres for geophysical surveys, and the number of holes plus the total distance (in metres) for drilling.

INDEX UTILIZATION

The Index has been designed to assist a user in selecting a report from the Claims Assessment File by any one or any combination of three separate parameters; i) on the basis of NTS area(s) in which work was performed; ii) on the basis of the company which held the ground; and iii) on the basis of the name of the mineral disposition on which the work was performed.

Reports Indexed by NTS Units

Part A of the Index (Fig. 3) lists the report accession numbers grouped according to NTS units. The three levels of notation (see Appendix A, Record Number 1, NTS Areas) as used within the Index, identify the relative areal extent of coverage. For example; surveys which cover large areas (airborne permits, exploration reservations, etc.) are usually listed under the primary block identifier (63K). Reports of surveys which cover smaller areas are listed under the secondary (63K13) or tertiary (63K13SW) block identifier (detailed ground geophysics, drilling, etc.).

A comprehensive search for reports within lower level NTS blocks should include a search through the higher levels. For example, if a user were interested in all work carried out over tertiary NTS block 63K13SW, the search would involve looking at those reports listed under 63K13 as well as 63K, since the implication is that a report in 63K13 should encompass all or portions of the four quadrants of that block.

Reports Indexed by Property Holder

In the past the Department has frequently received requests from users to direct them to reports of work performed by a specific company. Part B of the Index lists the accession numbers of the reports submitted by each of the companies which are or have been engaged in exploration within the Province (Fig. 4).

Reports Indexed by Property Name

Mineral dispositions have been named by the mining companies holding them, as an easy means of identification. Part C of the Index lists in alphabetic order the names of the mineral dispositions along with the corresponding report numbers (Fig. 5) and provides an opportunity to search for the work done on a particular mineral disposition.

INDEX UPDATES

The data file management system has been designed to produce supplementary "mini-indexes". These "mini-indexes", in the form of inserts to the main Index, are in the same format as the Index, but contain only references to reports which have become open or which have been modified since the previous updated Index was issued. These modifications may for example consist of changes to the data within the report which have been brought about by the addition of previously unrecorded information, or correction to some data item.

At the present time, it is intended to release these supplements on a yearly basis, in order that changes made during the previous calendar year can be incorporated. However, individual users may obtain more frequent updates by completing the "Request for Update" page in the Index, and returning it to the Department.

TAILORED RETRIEVALS

After examining the Index and comparing its contents with the overall file definition (APPENDIX A) it becomes obvious that more information is obtainable from the file than has been presented in the Index. The data file itself has many uses (one example of which is shown in Fig. 1); however, in producing the Index, only that information which is necessary to lead a user to reports of interest has been incorporated.

Another use of the file, which is somewhat more complicated than that shown by the Index, is the possibility of tailored retrievals, whereby users can request retrievals from the computer file based on some more complex data associations. These retrievals can be tailored to the individual user's requirements with output consisting of, for example, lists of reports which contain assays in a specific NTS area, or from samples obtained from a known property.

The file has been used in this fashion, within the Division, for a short period of time. For example, computer plots of the distribution and extent of geophysical methods, employed over the years, and separated into "geological" belts have been provided (Hosain, in preparation). This type of evaluation was not possible prior to the development of the computer file, short of dedicating several months to examining each report within the Claims Assessment File, and manually tabulating the results. Figures 1 and 2 of this report are further examples of variations in format which can be obtained. Figure 1 was obtained entirely by computer, with no manual interaction required. Figure 2, on the other hand, was obtained by requesting a table of the distribution of the reports, and then manually plotting the results.

REFERENCES

AMBACH, H.A., 1976, NM 7503, Data Management and Computerization; in Non-Renewable Resource Evaluation Program, First Annual Report 1975/76; Man. Min. Res. Div.; Open File Report 71/1 pp. 22-32.

1977, NM 7503, Data Management and Computerization; in Non-Renewable Resource Evaluation Program, 2nd Annual Report 1976/77; Man. Min. Res. Div.; pp. 22-22.

HOSAIN, I. (in prep.), Exploration History Review - Geophysical Evaluation; Man. Min. Res. Div.

APPENDIX A

DEFINITION OF CLASS COMPUTER FILE

The document shown in Fig. A1 was used to collect the information from the assessment reports. A summary discussion of the data fields is presented below. Each line of the document represents one computer record. Apart from the first record, each record can be repeated a number of times, once for each specific survey reported.

Record Number 1

The record specifies the proprietary information needed to identify the report.

ACC'N NUMBER - The accession number is the five digit number which has been assigned to each report contained in the CLAIMS ASSESSMENT FILE.

NTS AREA - Identifies the NTS area over which work has been performed. The NTS identifier comprises 3 distinct levels of resolution:

1. The primary block corresponding to, for example, 63K
2. The secondary numbered block corresponding to one of the 16 numbered blocks within the primary block giving, for example 63K14
3. The tertiary block corresponding to one of the four quadrants of each of the secondary numbered blocks giving, for example 63K14SW

This parameter is coded by selecting the largest block which had work performed over each of its components. Thus, a single drill hole would be located by 63K14SW; a geophysical grid might be located by 63K14, where the grid extends over each of the four quadrants; and a large airborne survey might be located by 63K, where the flight lines covered each of the four quadrants within each of the 16 numbered blocks within 63K. In many instances one report contains information over several discrete NTS areas, for example 63K14SW and 63K13SE. One of the two NTS areas would be coded in this field, with the remaining one being coded on record 7 (NTS areas).

STAT - Each report is classified according to its confidential or open status at the time of coding, depending upon whether the mineral dispositions are still in good standing. The Index contains only "open" claims assessment reports.

GEOG. LOC. - The locality of each survey or report is defined by including this four character code for some prominent topographic feature near or under the surveys carried out.

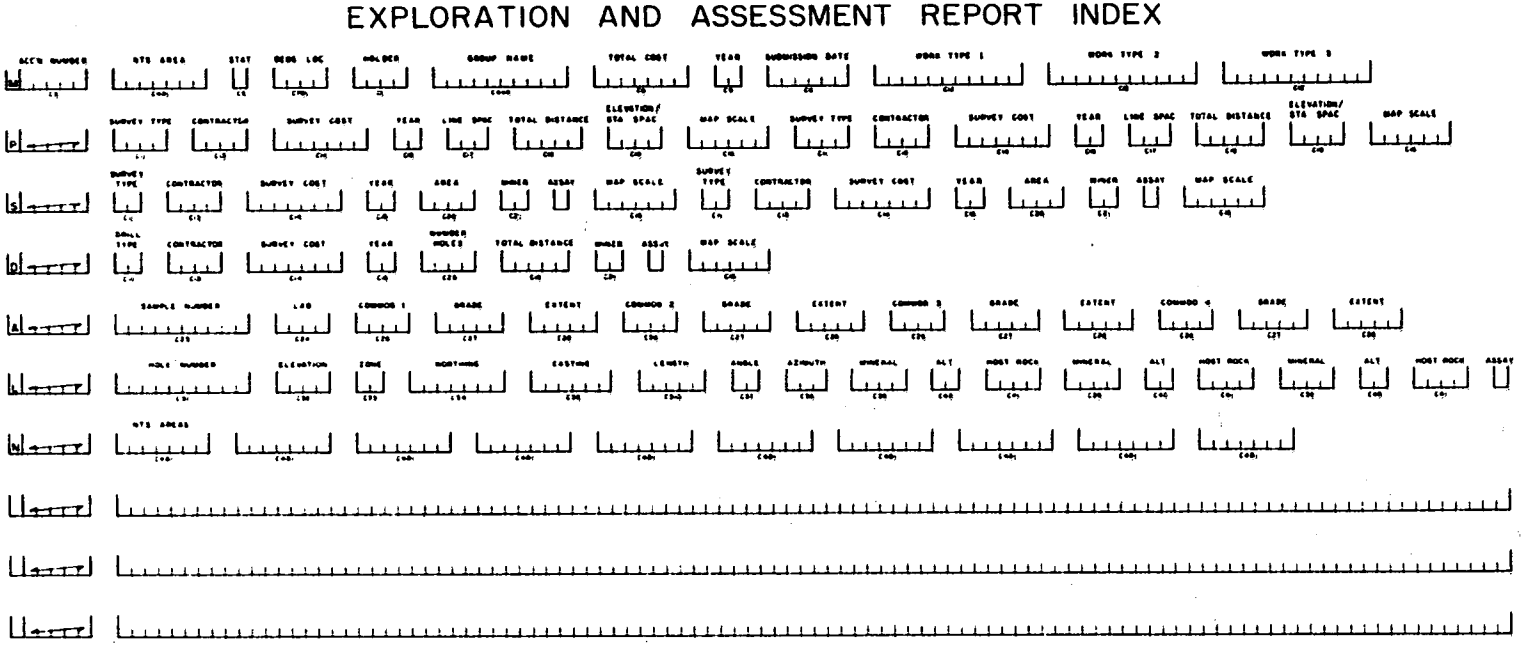

Figure A1. Exploration and assessment report index document

HOLDER - The individual or company submitting Reports of work or holding the property.

GROUP NAME - Each mineral disposition over which work has been performed is identified. In many instances the name is a combination of some proper name (TOM, DICK, HARRY) and a sequence number. When work has been performed over, for example the 16 claims identified as TOM 1, TOM 2 . . . TOM 16, the notation applied is TOM 1-16. If the claim numbers are not in sequence (that is TOM 1, TOM 4, TOM 12) only "TOM 1" is coded in this field. The remaining names (TOM 4 and TOM 12) are coded on lines 8 through 12. The conventions for nomenclature are:

Claim blocks	as	CBnnnn
Airborne permits	as	AP#nnn
Reservation of Mineral Rights	as	RMR#nnn
Exploration Reservations	as	RES#nnn
Work performed under agreements	as	AGR#nnn

where nnn represents the specific number.

Due to space limitations on the record, names which are greater than 10 characters in length have been truncated to 9 characters with an asterisk (*) added to the end of the name.

TOTAL COST - The total reported company expenditures involved in accumulating the information presented within a report.

YEAR - The first year in which work discussed in the report had been performed.

SUBMISSION DATE - The calendar date on which the report reference had been first entered on the computer file, or on which the references to a report had been modified in some way (e.g. change of status, etc.).

WORK TYPE(S) - To facilitate rapid retrieval, provision has been made to indicate the broad categories of work which are reported. These fields can take on the values "GEOPHYSICS", "SURFACE" or "DRILLING".

Record Number 2

This record contains the general summaries of geophysical work performed. Line 2 of the document allows for 2 repetitions. Additional surveys would be entered in the free-format area below. One format for each survey is completed.

SURVEY TYPE - The specific geophysical survey is coded on the basis of airborne or ground, the general type of survey (EM, IP, MAG, etc.) and the specific type (horizontal loop,

vertical loop, etc.). The coding scheme is hierarchical allowing for selection of all similar survey reports (for example all ground EM) without identifying the instrument, etc.

CONTRACTOR - The name of the person or company conducting the survey.

SURVEY COST - Where costs are given, they are noted for each survey.

YEAR - The year in which the particular survey was completed.

LINE SPACING - The distance, measured in metres, between grid lines.

TOTAL DISTANCE - The total distance, measured in kilometres, covered by the survey.

ELEVATION/STATION SPACING - The mean distance, measured in metres, above ground or between stations (depending on the survey) at which measurements were taken.

MAP SCALE - The scale, noted as a ratio (1:n), of the map used to represent the information.

Record Number 3

As with the geophysical records, provision has been built in for noting more than one survey carried out.

SURVEY TYPE - The broad categories identified include geological mapping, geochemical surveys, line-cutting, etc. In general, any survey which cannot be classified as geophysical or drilling is noted here.

CONTRACTOR, SURVEY COST AND YEAR - These items are defined as for geophysical surveys.

AREA - Since this record deals with surveys which cannot be generally expressed in terms of line distances, the relative extent of the survey carried out is indicated by noting the area, (square kilometres) for mapping types of surveys, and the lineal distance, (line kilometres) for such activities as line-cutting.

MINER - In very broad terms, the nature and form of "economic" mineralization observed during the course of carrying out the survey are identified. The "economic" mineralizations are grouped according to the following criteria:

Non-ferrous group	for example Cu, Ni, Pb, Zn, etc.
Precious metal group	Au, Ag, Pt
Ferrous group	Fe, Cr, Co, Mn, etc.
Industrial Mineral group	asbestos, barite, potash, etc.
Mineral Fuels group	U, Th

ASSAY - This field indicates that assays are included within the original assessment report.

MAP SCALE - As defined for geophysical survey.

Record Number 4

A summary description and extent of the reported diamond drilling is contained on this record.

DRILL TYPE - Indicates the core size.

CONTRACTOR, SURVEY COST, AND YEAR - As defined for geophysical surveys.

NUMBER HOLES - A simple count of the number of logs contained within the report.

TOTAL DISTANCE - The sum of the length of the holes reported within the assessment report. The unit of notation is metres.

MINER, ASSAY, AND MAP SCALE - As defined for surface surveys.

Record Number 5

This record presents assay results. Rather than reproduce each and every sample assay contained within the report, only the maximum values for each of the commodities assayed are selected.

LAB - The laboratory which carried out the assay.

COMMOD - The commodity assayed, identifying the element (e.g. Cu) or oxide (e.g. $U_3 O_8$).

GRADE - The grade value, reported in standard units of measurement with conversion to metric where applicable (ounces per ton is reported as grams per tonne).

EXTENT - This field indicates, for drill core assays, the length of analyzed core.

Record Number 6

Although provision has been made for reporting summaries of drill logs on the document, this particular record is not used at present. Instead, a separate computer file has been developed for drill log summaries, which forms an ongoing part of the Mineral Resources Information System.

Record Number 7

As previously implied, the NTS system is not the most perfect means of locating the area of a survey, principally because it is an attempt to fit features, which are rather obscure and diverse in shape, into a regimented coordinate system. To overcome the inherent problems of

locating such an entity, multiple NTS entries are provided. Thus, a mineral disposition which straddles the boundary between two NTS areas would result in two NTS area identifiers being coded.