LAND MANAGEMENT

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MAP CATALOGUE DATABASE

Created By:

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DECEMBER 1994



Land Management Division Indian and Northern Affairs Canada

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- The Department of Indian Affairs and Northern Development, in it present form, is a relatively young department. Its Natural Resources and Environment Branch (NREB) oversees policy development and implementation and regulates the management and protection of Northern resources and environment.
- The Land Programs Section of NREB maintains an inventory of Northern granular resources. Through numerous field studies, hardcopy and digital maps have been created that needed organization. It was decided to develop a catalogue of these maps using the database management system Microsoft Foxpro2.5.
- This catalogue, entitled "map_cata" and found on the hard drive of the student computer, has four categories: map description fields, areal coverage fields, digital map fields, and miscellaneous fields. Presently there are 638 records incorporated in the map catalogue database.
- This database, once complete, can be shared with other branch sections, directorates, government departments, regional offices, or academic institutions.

RECOMMENDATIONS

- It would be beneficial to have the map_cata database structure transferred to the regional offices of Yellowknife and Whitehorse to allow them to create their own catalogue of maps. Eventually, their database and ours could be combined (connected?) to produce a complete inventory of available maps in the Land Programs Section.
- There needs to be a more unique identification code and standardized naming convention created. Presently, each map is identified by a number between one and infinity. Ideally a code should be formulated that could contain such descriptive information as the area it covers (e.g. YK or NT), year produced, part of the title, or key theme (e.g. "gran" - granular; "topo" topography; "H" - hardcopy map; or "D" - digital map, etc.). This will be essential if maps from the regional offices are to be added to the present database; otherwise confusion could arise.
- To further organize and increase ease of access to information, the database could be separated into three subsets depending upon the format in which the map is available: (i) hardcopy maps, (ii) digital maps, or (iii) hardcopy and digital maps.
- Eventually, the database could be linked to the Northern Granular Resource Inventory's "Geographic Database" which contains information associated with the QUIKMap program and will allow for hardcopy maps to be transferred into digital form thereby increasing the sections computer orientation.
- Once all the maps have been catalogued, the database should be incorporated in the Northern Information Network (NIN). As NIN is a bulletin board system, there is a wide range of peoples who have access to the contents; with map_cata in the NIN directory information sharing will be increased.

Although Indian and Northern Affairs Canada has existed in its present form only since the mid-1960s, its origins can be traced as far back as 1755 (Indian and Northern Affairs Canada, 1993). According to Parliament's enactment in 1966 of the Department of Indian Affairs and Northern Development Act, the Minister has jurisdiction over such concerns of the Northwest Territories and the Yukon Territory as the administration of Crown Land as well as natural resources found on Crown Land (*Paragraph 4*). It was within this context that a Natural Resources and Environment Branch (NREB) was subsequently created to oversee the development and implementation of policies and regulations regarding the management and protection of northern resources and environment.

As a result of its being affected by various glaciation periods, parts of the North have been endowed with large quantities of granular materials, while these essential sources of construction materials are scarce in other areas. To ensure the proper management and sustainable development of these granular resources, the Land Programs Section of NREB "is responsible for the development and maintenance of a comprehensive inventory and management plan" (*Paquette and Gowan, 1993, 6*).

Much information on granular resources has been accumulated resulting from field investigations in conjunction with the Northern Granular Resources Program administered by the Land Programs Section. Although the department does conduct some of their own investigations, most of the research is actually contracted out by the Department of Indian Affairs and Northern Development (DIAND) to individual consulting firms. Over the past decade many of these reports have produced maps that locate present and potential granular sources, borrow holes, or well sites. Others document terrain suitability or topographical features to name but a few mappable aspects.

Prior to this date few of the maps generated by these studies have been documented in a collective format. As the granular program is striving to avoid duplication, thereby emphasizing usage of existing information (*Gowan, 1993*), it was decided to begin a compilation of all available Land Programs maps into one comprehensive database. The advantage of maps is that they allow for, in a glance, a quick indication of what an area holds in terms of deposits, terrain, et cetera. To this end, creation of a database which describes each digital and hardcopy map individually and that allows for the hardcopy maps to be stored in an organized manner will permit better use of the maps, will avoid unnecessary duplication of effort, and will indicate which areas are lacking sufficient research data.

This report discusses the need for and process taken to create a database to be used for cataloguing maps, describes the contents of the database, as well as how and who will use the database. It is intended that this report aid future users of the database understand its functionality and components.

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2.0 NEED FOR A DATABASE CATALOGUE

The initial objective of compiling the maps into a database was organization. By documenting what maps the Section has, it would be easier to determine if duplicate maps - whether by two different projects or simply an update of an old report - were present and would allow for the removal of these unneeded copies. Further organization would be created as storage of the hardcopy maps was necessary to allow for quicker access to the maps. If a certain map was required, one would have to simply search for it in the database and subsequently be told which tube the map is in and where the tube was to be found. Prior to the maps. Organization, therefore, increases ease of access.

One other benefit of creating a database to catalogue maps is sharing of information. Once the maps have all been documented, the resulting catalogue will effectively state "*this is what our section has available*". This catalogue can then be made available to other sections or directorates in the department or other departments in the government. Such a move will promote information sharing and possibly deter duplication of effort.

There is a final benefit of this organization of all maps, especially the hardcopy maps, into a database. By compiling a list of maps that are only in hardcopy format, it will be easier to determine which of these maps should be digitized. As the global business environment is continually becoming more computer and technology

oriented, it is important to maintain maps in digitized format on computers in order to remain up-to-date. Many of the Lands Program's maps that have been digitized were done so by Earth and Oceans Research Limited (EOR). Presently the database has over 250 records of digitized maps from EOR. Other digitized maps were produced in-house, mainly by the Data and Information Officer, Steve Rozak.

2.1 DATABASE CREATION

When documenting a map into a database there are many elements to consider; even moreso when the database is needed to catalogue both digital and hardcopy versions of a map. Several consultations with the Geotechnical Advisor allowed for the required fields to be established and entered into the database. The database, once the structure was confirmed, was named map_cata, a short form of "map catalogue". For a listing and description of these fields, refer to section 2.2 of this report. Many of the fields are unique to this database; some, however, were compiled from the Northern Information Network database structure (*Indian and Northern Affairs Canada, 1994a*) and the QUIKMap User's Guide (*AXYS, 1990*). Similar field structure was found in the EOR mapping database (*Kaiser, 1994*).

After the fields were logged into the database an application was created to allow data input to be as effortless as possible. By running an application under the same map_cata name, a customized input screen was generated (see Figure A). The fields contained in the input screen were determined to be those that are most commonly documented; those that apply both to hardcopy and digitized maps. The format they are seen on the screen is the field abbreviations; full field names can be

seen in Tables 1, 2, and 4.

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	Map Catalogue Database	
	IshcopyIsdigital _	
Map_title Map_series		
Key_locatr Year Scale Cont_int	Key_theme Edition Projection	
Prod_by Sponsor Ref_report		
Map_ref Map_locatn		
Utm_zone	Mn_zone	Mx_zone
Mn_lat_deg Mx_lat_deg	Mn_lon_deg Mx_lon_deg	
UI_lat _ Ur_lat _ LI_lat _ Lr_lat _	UI_lon Ur_lon LI_lon Lr_lon	
UI_northng Ur_northng LI_northng Lr_northng	UI_easting Ur_easting LI_easting Lr_easting	
Other <u>memo</u> Basemapid		
Input_date/_/	Comp	iler

FIGURE A: Map_cata Customized Input Screen

2.2 MAP CATA DATABASE COMPONENTS

In total the database contains 61 unique fields. These fields can be broken down into four main categories: map description, areal coverage, digitized map fields, and miscellaneous. In this map catalogue database there are five types of fields used depending on the type of data being documented. These are the following: character, numeric, logical, date, and memo.

2.2.1 Map Description Fields

There are seventeen fields contained in this first category (see Table 1): two logical, three numeric, and twelve character. These fields were created to describe the map being documented and all are incorporated in the customized input screen. The category details the map format (whether it is a hardcopy or digitized map); the title and the series the individual map belongs to; the territory/territories the map covers; and the key theme, publication year, and edition of the map. Other areas of information this category covers include the following: map scale, projection, and contour intervals; the sponsor of the project (e.g. DIAND) and who prepared the maps (e.g. a consulting or contracting firm); and whether there was a corresponding report associated with the map. The final field incorporated in this category details the map.

2.2.2 Areal Coverage Fields

Twenty-three fields are included in this category of the database (see Table 2): three character and twenty numeric. Each of these fields are also part of the application input screen. Three different categories of coordinate locators are used to describe the areal coverage of the map: UTM zones, (UTM) northing and easting coordinates, and latitude and longitude coordinates. The maximum and minimum

TABLE 1: MAP DESCRIPTION FIELDS

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The first 17 fields in the database are used to describe the type of map being documented.

FIELD	FIELD NAME	FIELD	FIELD	FIELD	FIELD DEFINITION
NUMBER		ABBREVIATION	TYPE	SIZE	
1	Unique ID Number	ID	С	10	A unique number that identifies each map individually.
2	Is Hardcopy Map	ishcopy	L	1	This is a logical response field which, if true, states that there is a hardcopy version of the map available.
3	Is Digitized Map	Isdigital	L	1	This is a logical response field which, if true, states that there is a digitized version of the map available.
4	Map Title	Map_title	с	85	The title and subtitle(s) of the map are detailed giving reference to the study area (eg. WINTER LAKE, District of Mackenzie, Northwest Territories).
5	Map Series	Map_series	с	20	This can be used as a sorting field that documents the 'series' the map belongs to (eg. National Topographic Series, Geological Survey of Canada, or a project name).
6	Key Locator	Key_locatr	с	4	This field identifies the key locator area and should be used as a sorting field that has four main options: <yk> (Yukon), <nt> (Northwest Territories) or <yknt>, <ntyk> if the map contains information on both. Other options can include: <ntab>, <ykus>.</ykus></ntab></ntyk></yknt></nt></yk>
7	Key Theme	Key_theme	с	20	This field can also be used as a sorting field; it identifies the key theme(s) of the map (eg. vegetation, surficial geology, roads, land claims, etc). It is very important that this field be as concise as possible (ie. not more than 2-3 words).
8	Publication Year	Year	N	4	The most recent year of publication of the map.
9	Edition	Edition	N	3	The edition of the map should be documented in this field.
10	Map Scale	Scale	N	8	Map scales are commonly shown as a representative fraction (eg. 1:25,000). Only the denominator of the fraction is listed (eg. 25000), as the numerator is always "1".
11	Map Projection	Projection	С	20	The projection of the map, if available (eg. Transverse Mercator, Lambert conformal, polyconic)
12	Contour Intervals	Cont_int	С	8	Contour intervals should be listed by the number (100) and by the terms of measurement (ft or m).
13	Produced by/Contractor	Prod_by	с	45	The producer(s) of the map, or the person/company contracted to produce the map, should be listed (eg. EMR, EOR, Lewis Geophysical Contracting).
14	Sponsor	Sponsor	С	30	The person/company who sponsored or requested the production of the map (eg. DIAND).
15	Referenced Report	Ref_report	с	85	Many maps produced as part of a project will have an accompanying report; this field makes reference to such a report.
16	Map Reference Number	Map_ref	с	7	This field is associated with hardcopy maps. Each National Topographic Series (NTS) or Canadian Hydrographic Series (CHS) map has a unique reference number combination; this field documents it (eg. 107D/14,CHS3591).
17	Hardcopy Location	Map_locatn	С	20	The descriptive location of the stored map (eg. storage room, tubes, etc).
Field Type: N	= Numeric; C = Character; L	= Logical		· ····	

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TABLE 2: AREAL COVERAGE FIELDS

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The next 23 fields in the database describe the UTM zones, latitudinal and longitudinal coordinates, as well as the northing and easting coordinates.

FIELD	FIELD NAME	FIELD	FIELD	FIELD	FIELD DEFINITION
NUMBER		ABBREVIATION	TYPE	SIZE	
18	UTM Zone Locator	UTM_zone	С	4	The Universal Transverse Mercator (UTM) zone locator number as listed on the map (eg. 12, 13W).
					Some maps will cover more than one UTM zone; if this is the case, then this field allows for the documentation of the
19	Minimum UTM Zone	Mn_zone	С	3	minimum zone used.
20	Maximum UTM Zone	Mx_zone	С	3	Some maps will cover more than one UTM zone; this field allows the maximum zone to be documented.
21	Minimum Latitude	Mn_lat_deg	N	9.5	The minimum degrees latitude of the map as incorporated in the NIN directory.
22	Minimum Longitude	Mn_lon_deg	N	10.5	The minimum degrees longitude of the map as incorporated in the NIN directory.
23	Maximum Latitude	Mx_lat_deg	N	9.5	The maximum degrees latitude of the map as incorporated in the NIN directory.
24	Maximum Longitude	Mx_lon_deg	N	10.5	The maximum degrees longitude of the map as incorporated in the NIN directory.
25	Upper Left Latitude	UI lat	N	9.5	The latitude of the upper left corner of the map in decimal degrees.
26	Upper Left Longitude	UI_lon	N	10.5	The longitude of the upper left corner of the map in decimal degrees.
27	Upper Right Latitude	Ur_lat	N	9.5	The latitude of the upper right corner of the map in decimal degrees.
28	Upper Right Longitude	Ur_lon	N	10.5	The longitude of the upper right corner of the map in decimal degrees.
29	Lower Left Latitude	Li_iat	N	9.5	The latitude of the lower left corner of the map in decimal degrees.
30	Lower Left Longitude	LI_lon	N	10.5	The longitude of the lower left corner of the map in decimal degrees.
31	Lower Right Latitude	Lr_lat	N	9.5	The latitude of the lower right corner of the map in decimal degrees.
32	Lower Right Longitude	Lr_lon	N	10.5	The longitude of the lower right corner of the map in decimal degrees.
33	Upper Left Northing	UI northing	N	7	The UTM northing of the upper left corner of the map.
34	Upper Left Easting	UI easting	N	6	The UTM easting of the upper left corner of the map
35	Upper Right Northing	Ur northing	N	7	The UTM northing of the upper right corner of the map.
36	Upper Right Easting	Ur_easting	N	6	The UTM easting of the upper right corner of the map.
37	Lower Left Northing	LI_northing	N	7	The UTM northing of the lower left corner of the map.
38	Lower Left Easting	LI_easting	N	6	The UTM easting of the lower left corner of the map.
39	Lower Right Northing	Lr_northng	N	7	The UTM northing of the lower right corner of the map.
40	Lower Right Easting	Lr_easting	N	6	The UTM easting of the lower right corner of the map.
Field Type: N	ENumeric: C = Character				
riela i ype; N	i ≡ Numeric; C = Character				

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degrees latitude/longitude correspond with fields contained in the Northern Information Network database (*Indian and Northern Affairs Canada, 1994a*). The use of the upper and lower left/right coordinates (in both latitude/longitude and northing/easting options) was established to more clearly define the limits of the map - thereby creating a "boxed" area within which the map is contained.

2.2.3 Digital Map Fields

As can be seen in Table 3, there are seventeen fields incorporated in this category: one memo field, four character, and twelve numeric. Each of these fields is associated with and taken from the QUIKMap program (*AXYS*, 1990); the program used by the department for map digitization. As these fields are only associated with the digitized maps, and are either automatically created by the QUIKMap program itself or entered manually during digitization, it was decided they need not be incorporated in the customized data entry screen. The fields deal with the labels, lines, and symbols drawn on the map and details such information as the size, font, colour, or angle of each.

2.2.4 Miscellaneous Fields

The final four fields of the database are miscellaneous information fields (see Table 4); one is a memo field, one is a date field, and two are character fields. The date field documents the input date of each record; the two character fields document (i) reference to a basemap used in the creation of the map (if applicable) and (ii) the name of the person who entered the record into the database. The memo field in this category is very important. Termed as "other data", it affords space to document such information as a project number, or important notes documented on the map, or often it was used to describe landmarks (e.g. rivers, settlements, lakes, mountain

TABLE 3: DIGITAL MAP FIELDS

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The following 17 fields are descriptions of QUIKMap parameters which describe the digitized map image created by this program.

FIELD	FIELD NAME	FIELD	FIELD	FIELD	FIELD DEFINITION
NUMBER		ABBREVIATION	TYPE	SIZE	
41	Data Type	Data_type	С	1	This field defines the data as "S" symbol or "P" polyline.
42	Symbol or Line Type	Sym_In_typ	N	3	The numeric QUIKMap code which describes the type of symbol or polyline to be displayed.
43	Symbol or Line Thickness	Size_thick	N	4	The numeric QUIKMap code which describes the symbol size or line thickness used on the map expressed in tenths of a percent of the total screen height; the default being 10.
44	Data Colouring	Data_color	N	3	The numeric QUIKMap code which defines the screen colour of the associated symbol (16 standard colours ranging from 0-15).
45	Symbol Angle	Sym_angle	N	3	The QUIKMap numeric code which describes the angle, in degrees of counter clockwise rotation, from horizontal, that the symbol will be rotated on the map.
46	Line or Polygon Data	Ln_ply	М	10	The memo field that stores the polyline vector information for the map.
47	Hatch Pattern	Hatch_patt	N	2	The numeric QUIKMap code which describes the chosen hatch pattern filling the symbol or polyline.
48	Label Text	Lbl_txt	С	30	Contains the text of the label associated with the data and displayed on the map.
49	Label Size	Lbl_size	N	3	The numeric QUIKMap code which describes the size of the label; calculated on the height of the upper case of the typeface selected. The default size is equal to the formula in <size_thick>.</size_thick>
50	Label Colour	Lbl_color	N	3	The numeric QUIKMap code which describes the colour of the label. The default colour will be defined as in
51	Label Font	Lbl_font	С	8	Details the Halo font used for the label.
52	Label Angle	Lbl_angle	N	5	The numeric QUIKMap code which defines the angle of counter clockwise rotation, from horizontal, for the label on the map.
53	Polygon Area	Ply_area	N	12.3	Details the calculated area, in hectares, of a digitized polygonal feature.
54	Line or Polygon Length	Ln_ply_len	N	12.3	Details the total length, in meters, of a line or the perimeter of a polygonal feature.
55	Visible Line Length	Vis_len	N	14.3	This field stores the length, in meters, of the visible lines of a polygon.
56	Hidden Line Length	Hidn_len	N	5.1	This field stores the length, in meters, of the hidden lines of a polygon.
57	Operation	Operation	C	5	QUIKMap communication with applications. The four being: 'T'=tagged; 'B'=boxed; 'H'=hidden; and 'I'=ignore.
Field Type: N	I = Numeric; C = Character; N	A = Memo			

TABLE 4: MISCELLANEOUS FIELDS

These final four fields are additional information fields.

FIELD	FIELD NAME	FIELD	FIELD	FIELD	FIELD DEFINITION
NUMBER		ABBREVIATION	TYPE	SIZE	
					A memo field for documentation of any other data, for example, a description of the area shown on map (i.e.
58	Other data	Other	м	10	Cameron Hills, Hay River, Great Slave Lake, etc.).
59	Basemap Identification	Basemapid	С	20	A reference, if available, to the type of basemap used in digitization.
60	Date of Input	Input_date	D	8	Date the record was entered into the database (mm/dd/yy).
61	Compiler	Compiler	С	20	Name of the person who entered the record into the database.
Field Type: C	C = Character; M = Memo; D =	· Date			

ranges) that were shown on the map.

2.3 DATABASE CONTENTS

The map_cata database, although continually being added to, is already extensive, having 638 records. Some examples of these records can be seen in Appendix A. All of these maps can be found in hardcopy form and 188 in digital form. Therefore, each digital map also has a hardcopy version. Presently, the only digital maps documented are those received from EOR. The database of information received from EOR had to be reformatted into that of the map_cata structure; this included changing, adding or deleting fields names prior to importing their information into the map_cata database. Table 5 was produced to illustrate some of the main themes of the maps contained in the map_cata database and how many correspond with each theme. It should be noted that many maps were listed as having more than one key theme, therefore, the numbers are not representative of an individual map.

TABLE 5: MAP_CATA KEY THEMES Listing of some key themes and the number of maps applied to each theme.

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KEY THEME	NUMBER OF MAPS
Bathymetry	32
Borehole	14
Borrow Pit	34
Granular	73
Gravel	18
Hydrography	14
Land Claims	2
Sand	8
Seismic	11
Topography	80
Trakplot	25

Knowledge of *Foxpro* or a similar database management system, is useful for working with this database but is not mandatory. Such experience is necessary moreso when dealing with data manipulation than data entry. This next section will describe the steps needed to be taken to allow for access to the data entry mode.

NOTE: The map_cata database is currently located in the <n-slave> directory on the hard drive of the student computer. In case the directory is changed, the following commands are purposely generic. Until such time as the directory is changed, assume <n-slave> to be the proper directory name.

First it is necessary to exit out of *Windows* mode and return to your C:\> prompt. To do so hit the "Alt,F4" combination of keys and answer 'OK' to the question with which you are prompted. Once at the C:\> prompt you must enter into the required directory by typing "cd (+ two spaces) <directory name>". Once it is indicated you are in the proper directory (e.g. "C:\>n-slave"), type "foxpro". This command will bring you directly into the main *Foxpro* screen and the *Foxpro* 'command' box should be showing; if it is not showing, hit the 'F2' key to bring it out. In the 'command' box type "set display to vga50" which will minimize the fonts used on the screen. This is important because when the customized input screen was established, the normal font size was too large to allow for all the necessary fields to be incorporated. Once in the main Foxpro setting, there are two options available to access the "map_cata" application input mode:

- Using the mouse, open the 'run' button and select 'application'. You will then be given some choices as to which application you wish to open; double click on the "map_cata.app" option to open this application; or
- Type "do map_cata" to access the application mode of the data entry directly from the 'command' box.

As has been mentioned, a primary result of preparing this catalogue will be information sharing. It is likely that other sections, directorates, or government departments will be able to make use of this catalogue. There are, however, other potential users. An important potential user is the regional office of both Yellowknife, NWT and Whitehorse, YT. As it is the Region that issues quarrying and land use permits, the maps that document information regarding land cover or deposits, et cetera it is important for our map resources be shared with the respective Regions.

To further assist in the dissemination of information, one important user will be the Northern Information Network (NIN). As stated in their brochure, NIN "is designed to link users of databases that contain geographically referenced information about the North" (*Indian and Northern Affairs Canada, 1994b*). Once incorporated in NIN, the map_cata database will be accessible to such potential users as: land use planning offices; community and Native organizations; interest groups; industry and business organizations who can access the NIN directory with a modem through either a bulletin board or on-line access (*ibid.*).

This information, if not confidential, could also be shared with university departments that have an interest in land management - for example geology, geography, or earth science departments. Such a wealth of materials could quite possibly be of use to students, both graduate and undergraduate, doing projects, essays, or theses on a wide range of topics dealing with northern resources.

5.0 CONCLUSIONS

Databases allow for rapid access to and increased organization of the information contained within. As there has been no previous complete documentation of the maps received by the Land Programs Section from field investigations, it was decided to create a database to catalogue the maps. Many of these maps are still in hardcopy format only and are in need of conversion to digital form. Since incorporation of the database into NIN is an eventual goal, the maps must all be in a digital format to be considered. Through the incorporation of fields associated with QUIKMap, the digitization program used by the section, the process of creating these digital maps will be made simpler.

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APPENDIX A

Sample Records Contained in Map_cata Database

ld	0001									
lshcopy	Y									
Isdigital	N									
Map_title	Granular Resources - Lower Sand Unit									
Map_series	Isserk Borrow Block									
Key_locatr	NT									
Key_theme	granular	granular								
Year	1988									
Edition	0									
Scale	25000									
Projection	UTM CM-135									
Cont_int	none									
Prod_by	Earth and Ocear	n Research Lto	1 .							
Sponsor	DIAND									
Ref_report										
Map ref										
Map locatn	Tube 01									
Utm zone										
Mn zone										
Mx zone										
Mn lat deg	0.00000									
Mn Ion deg	0.00000									
Mx lat deg	0.00000									
Mx lon deg	0.00000									
UI lat	70.03333	tat	69 85833							
UI Ion	134.46667		134 46667							
Ur lat	70.03333	Lr lat	69 85833							
Ur lon	133.96667	Lr ion	133 96667							
UInorthng	7770000		7750000							
UI easting	520000	LL easting	520000							
Ur northing	7770000	Lr northng	7750000							
Ur easting	540000	Lr easting	540000							
Data_type			•••••							
Sym in typ	0									
Size thick	0									
Data color	0		,							
Sym_angle	0									
Ln_ply										
Hatch_patt	0									
Lbl_txt										
Lbl_size	0									
Lbl_color	0									
Lbl_font										
Lbl_angle	0									
Ply_area	0.000)								
Ln_ply_len	0.000)								
Vis_len	0.0	00								
Hidn_len	0.0									
Operation										
Other	EOR project #8	8-03								
	Borehole description developed by EBA Engineering Consultants, Alberta									

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ld	0013							
Ishcopy	Y							
Isdigital	N							
Map_title	Isopach: Surficial Cover on Prospective Surface							
Map_series	Erksak Borrow Block							
Key_locatr	NT							
Key_theme	isopach borehole							
Year	1988	1988						
Edition	0							
Scale	75000							
Projection	UTM CM-135							
Cont int	1 m							
Prod by	Earth and Ocea	n Research Ltd.						
Sponsor	DIAND							
Ref report								
Map ref								
Map locatn	Tube 01							
Utm zone								
Mn zone								
Mx zone								
Mn lat deg	0.00000							
Mn_lon_deg	0.00000							
Mx_lat_deg	0.00000							
Mx lon deg	0.00000							
Ul lat	70.30000	i i lat	60.25000					
UI_lon	133.68472		133 69473					
Ur_lat	70.30000	Lr. lat	133.00412					
Ur Ion	132,13333		122 42222					
UI northng	7800000		132.13333					
UI easting	550000	L easting	FE0000					
Ur northng	7800000	Li_easting	330000					
Ur easting	610000	Lr easting	610000					
Data_type		LI_casting	010000					
Sym in typ	0							
Size thick	0							
Data_color	0							
Sym_angle	0							
Ln ply								
Hatch patt	0							
Lbl txt								
Lbl size	0							
Lbl color	0							
Lbl font								
Lbl_angle	0							
Ply_area	0.000							
Ln_ply_len	0.000							
Vis_len	0.0	00						
Hidn_len	0.0							
Operation								
Other	EOR project 88-	03						

Basemapid	
Input_date	11/02/94
Compiler	T.Jack

ld	0017				
Ishcopy	Y				
Isdigital	N				
Map_title	Yukon				
Map_series	Yukon Base Ma	Yukon Base Maps			
Key locatr	YK				
Key theme	elevation drain	ade			
Year	0	- 3-			
Edition	0				
Scale	100000				
Projection	not given				
Cont int	100 m				
Prod by					
Snonsor					
Ref. report					
Man ref					
Map_rer	Tube 00				
Map_locati	rube vz				
Utm_zone					
Mn_zone					
mx_zone					
Mn_lat_deg	0.00000				
Mn_lon_deg	0.00000				
Mx_lat_deg	0.00000				
Mx_lon_deg	0.00000				
Ul_lat	62.50000	Li_lat	62.00000		
Ul_lon	131.00000	Ll_lon	131.00000		
Ur_lat	62.50000	Lr_lat	62.00000		
Ur_lon	130.00000	Lr_lon	130.00000		
Ul_northng	6931000	LI northng	6876000		
UI_easting	397000	LI easting	396000		
Ur_northng	6930000	Lr northng	6875000		
Ur_easting	448000	Lr easting	447000		
Data_type					
Sym_In_typ	0				
Size_thick	0				
Data_color	0				
Sym_angle	0				
Ln_ply					
Hatch patt	0				
Lbl txt					
Lbl size	0				
Lbl color	0				
Lbl font	•				
L bl. angle	n				
Ply area	0.00	n			
in niv len	0.00	0.000			
Vis len	0.000	-			
Hidn len	0.0	~~~			
Operation	v.u				
Other	Block 105 // 7 /	9/2/4			
	DOUCH IVOU / /	u z / I Ily Diver			
	reny Lakes, Pe				

Basemapid

Input_date	11/04/94
Compiler	T.Jack

ld	0033				
Ishcopy	Y				
Isdigital	N				
Map_title	Yukon				
Map_series	Yukon Base Maps				
Key_locatr	YK				
Key_theme	elevation draina	age			
Year	0				
Edition	0				
Scale	100000				
Projection	not given				
Cont_int	100 m				
Prod_by					
Sponsor					
Ref_report					
Map_ref					
Map_locatn	Tube 02				
Utm_zone					
Mn zone					
Mx_zone					
Mn_lat_deg	0.00000				
Mn lon deg	0.00000				
Mx lat deg	0.00000				
Mx lon_deg	0.00000				
UI lat	60.75000	lat	60 50000		
Ullon	129.00000	i i lon	129 00000		
Urlat	60.75000	Lr_lat	60 50000		
Ur_lon	128.00000		128 00000		
UInorthng	6734000	11 northng	6707000		
UI easting	501000	L easting	50 1000		
Ur northna	6735000	Lr northng	6708000		
Ur easting	554000	r easting	554000		
Data type		El_custing	004000		
Sym In typ	0				
Size thick	0				
Data color	0				
Sym angle	0				
Ln ply					
Hatch patt	0				
Lbl_txt					
Lbi size	0				
Lbl_color	0				
Lbl_font					
Lbl_angle	0				
Ply_area	0.00	0			
Ln_ply_len	0.000				
Vis_len	0.6	D00			
Hidn_len	0.0				
Operation					
Other	Block 105A/ - /	- / 10 / 9			
	Hyland River				
	False Canyon (Creek			

Basemapid Input_date Compiler T.Jack

11/07/94

ld	0066		
lshcopy	Y		
Isdigital	N		
Map_title	Starr Creek - Yi	ukon Territory	
Map_series	NTS A722 Wats	on Lake	
Key_locatr	YK		
Key_theme	borrow pits top	ography	
Year	1971		
Edition	1		
Scale	50000		
Projection	Transverse Me	rcator	
Cont_int	100 ft		
Prod by	Surveys and M	apping Branch, E	MR
Sponsor	•		
Ref_report			
Map ref	105G/12		
Map locatn	Tube 04		
Utm zone	9V		
Mn zone	-		
Mx zone			
Mn lat deg	0.00000		
Mn lon deg	0.00000		
Mx lat deg	0.00000		
Mx ion deg	0.00000		
UI lat	61.75000	i i lat	61 50000
UI Ion	132.00000		132 00000
Ur lat	61.75000	l r lat	61 50000
Ur Ion	131.50000		131 50000
UI northng	6849000		6922000
UI easting	342000	Li_norting	341000
Ur northng	6848000	Li_easting	6821000
Ur easting	367000		366000
Data type		LI_Casting	300000
Sym in typ	0		
Size thick	0		
Data color	0		
Sym angle	0		
Ln ply			
Hatch patt	0		
LbI txt			
Lbl size	0		
Lbl color	0		
Lbl font			
Lbl angle	0		
Ply area	0.00)	
Ln ply len	0.00)	
Vis len	0.0	000	
Hidn len	0.0		
Operation			
Other	Photocopy of a	riginal.	
	Borrow pits list	ed on map.	
		•	
	Provisional Ma	p	
	Pelly Mountain	S	
	St. Cyr Range		
	Horton Creat		
	HUILUH Greek		
Basemapid			
Input_date	11/09/94		
Compiler	T.Jack		

lđ	0101			
Ishcopy	Y			
Isdigital	N			
Map_title	Watson Lake (B	Blueprint Sheet	3/5)	
Map_series	Yukon Commu	nities		
Key_locatr	YK			
Key_theme	topography			
Year	1974			
Edition	0			
Scale	200			
Projection	not given			
Cont_int	5 ft			
Prod_by	North West Sur	vey Corporatio	n. Whitehorse	
Sponsor	Dept of Highway	ys & Public Wo	rk	
Ref_report				
Map_ref				
Map_locatn	Tube 05			
Utm_zone				
Mn_zone				
Mx_zone				
Mn lat deg	0.00000			
Mn_lon_deg	0.00000			
Mx lat deg	0.00000			
Mx lon deg	0.00000			
Ul_lat	0.00000	11 lat	0 00000	
Ullon	0.00000		0.00000	
Urlat	0.00000	Lr lat	0.00000	
Urlon	0.00000		0.00000	
UI northing	0	LI_ION	0.00000	
UI eastino	0	LI_norting	0	
Ur northna	0	Li_easting	, in the second s	
Ur easting	0		0	
Data type	•	LI_easing	U	
Sym in typ	0			
Size thick	0			
Data color	0			
 Sym_angle	0			
Ln_ply				
Hatch patt	0			
LbI txt				
Lbl_size	0			
Lbl color	C			
Lbl font				
Lbl angle	0			
Ply area	0.000			
Ln ply len	0.000			
Vis len	0.000			
Hidn len	0.0			
Operation				
Other	Unfamiliar grid g	attern: using	northing and easting in 10/	0.0ft intervale
		satisfin using	norming and casting in the	vit intei vais.
	Compiled from p	photography da	ated 1973.	
	Wye Lake			
	Alaska Highway			

Basemapid

input_date 11/10/94 Compiler T.Jack

ld	0106			
Ishcopy	Y			
Isdigital	N			
Map_title	Terrain Units In	cl. Potential Gra	nular and Clay Deposit	s - Plate 3
Map_series	Cameron Hills	Upland		
Key_locatr	NT			
Key theme	granular clay d	eposits		
Year	1994	•		
Edition	0			
Scale	25000			
Projection	not given			
Cont int	not given			
Brod by	D Mollard an	d Accordates Lim	ited	
Sponsor	DIAND	U ASSUCIACES LIIII		
Sponsor Def report	Diano Detential Cran	den Den 🕴 Terrei	n Amelyoin of Coloria	
Kei_report	Polential Grant	liar Dep. & Terrai	n Analysis of Selected	Areas on the Cameron Hills, NT
map_rer				
Map_locath	Tube 06			
Utm_zone				
Mn_zone				
Mx_zone				
Mn_lat_deg	60.00000			
Mn_lon_deg	117.41667			
Mx_lat_deg	60.10000			
Mx_lon_deg	117.68333			
Ul_lat	60.08333	LI lat	60.00000	
Ul_lon	117.25000	Lion	117.25000	
Ur_lat	60.08333	Lr lat	60.00000	
Ur_lon	0.00000	Lr Ion	0.00000	
UI_northng	0	LL northna	0	
UI_easting	0	LI easting	0	
Ur northing	0	Lr. porthng	0	
Ur easting	0	Lr easting	n v	
Data type		ci_easting	U	
Sym in typ	0			
Size thick	0			
Data color	0			
Sym angle	0			
Ln ply	•			
Hatch patt	0			
I bi tyt	•			
Lbi_tat	٥			
l bl. color	0			
the fort	v			
thi angle	^			
Div area	V			
riy_died	0.000			
	0.000	,)))		
vis_ien	0.0	000		
Hidn_ien	0.0			
Operation				
Other	Original mylar o	copy of Cameron	Hills study	
	Photomosaic 1	3		
	-			
	Documents:			
	*Alluvial La	andforms and De	posits	
		nai Granular Lan	norms and Deposit Pr	ospects
	rın Landi Məndəlidə	I andforme and !	la Janocite	
D	Lanusiide	canoronis and t	vehosita	
Basemapid				
Input_date	11/18/94			
Compiler	T.Jack			

ld	0160		
Ishcopy	Y		
Isdigital	N		
Map_title	Granular Depos	it Loccations - Ak	lavik, Yukon Territory/N.W.T.
Map_series	Inuvialuit Settle	mnt	
Key_locatr	YKNT		
Key_theme	sand and grave	I	
Year	1987		
Edition	0		
Scale	250000		
Projection	not given		
Cont_int	100 m		
Prod_by	EBA Engineerin	g Consultants Lto	1.
Sponsor	INAC		
Ref_report	Inuvialuit Settle	ment Sand & Gra	vel Inv. & Recommendations for Dev't - Aklavik, YK/NT
Map_ref			
Map_locatn	Tube 15		
Utm_zone	8W		
Mn_zone			
Mx_zone			
Mn_lat_deg	0.00000		
Mn_lon_deg	0.00000		
Mx_lat_deg	0.00000		
Mx_lon_deg	0.00000		
Ul_lat	69.00000	LI lat	68.00000
Ul_lon	136.75000	Li lon	136.50000
Ur_lat	69.00000	Lr lat	68.00000
Ur_lon	132.50000	Lr lon	132,50000
UI_northng	7650000	Ll northna	7550000
UI_easting	430000	LI easting	430000
Ur_northng	7650000	Lr northng	7550000
Ur easting	590000	Lr easting	590000
Data_type			
Sym_In_typ	0		
Size_thick	0		
Data_color	0		
Sym_angle	0		
Ln_ply			
Hatch_patt	0		
Lbl_txt			
Lbl_size	0		
Lbl_color	0		
Lbl_font			
Lbl_angle	0		
Piy_area	0.00	0	
Ln_ply_len	0.00	0	
Vis_len	0.	000	
Hidn_len	0.0		
Operation Other	DWG. No. 0101	-4575-001	
	Depicts the Lar without"; the a	nds Boundaries o pproximate bound	f 7(1)(a) "lands with mineral rights" and 7(1)(b) "those dary of granular resource.
	Proposed Inter	national Biologica	al Program Areas: Mountains
	Site 48 Dolomi	te Lake, Campbell	Lake
	Site 9 Caribou	Hills	
Basemanid			
Input date	11/30/94		
Compiler	T.Jack		
Complier			

ld	0224		
Ishcopy	Y		
Isdigital	N		
Map_title	Fort McPherson,	NWT, District of	Mackenzie
Map_series	Quarrying Permi	ts	
Key_locatr	NTYK		
Key_theme	topography D.P.V	W. quarry	
Year	1959		
Edition	1		
Scale	250000		
Projection	Transverse Merc	ator	
Cont int	100/500f		
Prod by	Surveys & Mann	ing Branch, Dept	of Mines &
Sponsor			
Def report			
Man rof	106M		
Map_leasts	Tube 25		
Utm_zone	g v v		
Mn_zone			
Mx_zone	A AAAAA		
Mn_lat_deg	0.00000		
Mn_lon_deg	0.00000		
Mx_lat_deg	0.00000		
Mx_lon_deg	0.00000		
UI_lat	68.00000	Ll_lat	67.00000
Ul_lon	136.00000	Ll_lon	136.00000
Ur_lat	68.00000	Lr_lat	67.00000
Ur_lon	134.00000	Lr_lon	134.00000
Ul_northng	7540000	LI_northng	7440000
UI_easting	460000	LI_easting	460000
Ur northing	7540000	Lr northng	7440000
Ur_easting	540000	Lr easting	540000
Data_type		-	
Sym in typ	0		
Size thick	0		
Data color	0		
Svm angle	0		
Ln ply			
Hatch patt	0		
i bi txt	-		
tht size	0		
	0		
Lbi_color	Ū		
the spale	^		
	U 0.000		
Ply_area	0.000		
Ln_piy_ien	0.000	<u>^</u>	
vis_ien	0.0	00	
Hidn_len	0.0		
Operation			
Other	Hand-drawn on	to map are:	
	-Dempster i	Highway	
	-Time posts	rowe)	
	-D.F.W. (DO)	nermite	
	-adaitying	permits	
	Richardson Mo	untains	
	Peel River		
	Fort McPherson	1	
Recomanid			
baseniapiu	42/00/04		
	12/00/94		
Compiler	1.Jack		

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1997), T. S.

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ld	0277			
lshcopy	Y			
Isdigital	N			
Map_title	Sand and Grave	I Deposits Along the	e Mackenzie I	Highway Corridor
Map_series				
Key_locatr	ΝΤΥΚ			
Key_theme	sand, gravel			
Year	0			
Edition	0			
Scale	250000			
Projection				
Cont_int	100 ?			
Prod_by	DIAND			
Sponsor				
Ref_report				
Map_ref				
Map_locatn	Tube 32			
Utm_zone				
Mn_zone				
Mx_zone				
Mn_lat_deg	0.00000			
Mn_lon_deg	0.00000			
Mx_lat_deg	0.00000			
Mx_lon_deg	0.00000			
UI_lat	69.00000	Ll_lat	60.00000	
UI_lon	133.00000	LI_lon	121.00000	
Ur_lat	67.00000	Lr_lat	61.50000	
Ur_lon	136.00000	Lr_lon	118.00000	
Ul_northng	0	LI_northng	0	
UI_easting	0	LI_easting	0	
Ur_northng	0	Lr_northng	0	
Ur_easting	0	Lr_easting	0	
Data_type	_			
Sym_in_typ	0			
Size_thick	0			
Data_color	U			
Sym_angle	U			
Ln_piy	•			
	v			
	•			
	0			
Lbi_color	v			
	٥			
LDI_angle	0 000			
riy_alea	0.000			
Vic len	0.000	00		
Hidn len	0.0	00		
Operation Other	There is both a	paper and velum co	py.	
	Lat/Ion coordina	ates are approximate	e. This map is	s a compilation of several NTS basemaps.
	Some reference UL -> Sitidg UR -> Mills I LR -> Trout	points: i Lake Lake & Meridian Isla Lake	nd, part of	Mackenzie River

Basemapid

Input_date 12/12/94 Compiler T.Jack

ld	0331			
Ishcopy	Y			
Isdigital	N			
Map_title	Map 10.3 - Unic	que Quaternary G	eologic Features	
Map_series	Dempster Hwy Plannin			
Key_locatr	YK			
Key_theme	quaternary geo	ology		
Year	1981			
Edition	0			
Scale	100000			
Projection	not given			
Cont int	100 m?			
Prod by	Terrain Analys	is and Mapping S	ervices Ltd.	
Sponsor				
Ref report	Demoster High	way Planning Are	.a	
Map ref			-	
Man locatn	Tube 38			
litm zone				
Mn zone				
My zone				
Mn lat deg	0.0000			
Mn_lon_dog	0.00000			
Mr. int. dog	0.00000			
Mx_lon_dom	0.00000			
MX_ROII_deg	0.0000			
	65.00000	Li_lat	64.50000	
	139.00000	Ll_lon	139.00000	
Ur_lat	65.00000	Lr_lat	64.50000	
Ur_ion	137.00000	Lr_lon	137.00000	
UI_northing	0	Ll_northng	0	
UI_easting	0	Ll_easting	0	
Ur_northng	0	Lr_northng	0	
Ur_easting	0	Lr_easting	0	
Data_type				
Sym_In_typ	0			
Size_thick	0			
Data_color	0			
Sym_angle	0			
Ln_ply				
Hatch_patt	0			
Lbl_txt				
Lbl size	0			
Lbl color	0			
Lbl font				
Lbl angle	0			
Ply area	0.00	n		
Ln ply len	0.000	-		
Vis len	0.000	-		
Hidn len	0.0			
Operation	0.0			
Other				

Basemapid	
Input_date	12/15/94
Compiler	T.Jack

ld	0351			
Ishcopy	Y			
Isdigital	N			
Map_title	Map 9.6 - Suitability for Construction Materials			
Map_series	Dempster Hwy	Plannin		
Key_locatr	YK			
Key_theme	terrain suitabili	ty		
Year	1981	•		
Edition	0			
Scale	100000			
Projection	not given			
Cont int	500 m?			
Prod by	Terrain Analysi	s and Mapping Serv	rices I td.	
Sponsor	· · · · · · · · · · · · · · · · · · ·	e and mapping een	Liu.	
Ref report	Demoster High	way Planning Area		
Man ref	Dempoter ringin	nuy rianning Arca		
Map_locate	Tube 39			
Map_Iocali	Tube 55			
Mn zone				
Mr. zone				
MX_20ne				
Mn_lat_deg	0.00000			
Mn_ion_deg	0.00000			
MX_tat_deg	0.00000			
MX_IOn_deg	0.00000			
UI_lat	66.50000	Ll_lat	66.00000	
UI_ION	137.66667	Ll_lon	137.66667	
Ur_lat	66.50000	Lr_lat	66.00000	
Ur_lon	136.16667	Lr_lon	136.16667	
UI_northng	0	LI_northng	0	
UI_easting	0	LI_easting	0	
Ur_northng	0	Lr_northng	0	
Ur_easting	0	Lr easting	0	
Data_type		2 0		
Sym_In_typ	0			
Size_thick	0			
Data_color	0			
Sym_angle	0			
Ln_ply				
Hatch_patt	0			
Lbl_txt				
Lbl_size	0			
Lbl color	0			
Lbl font				
Lbl angle	0			
Ply area	0.000			
Ln ply len	0.000			
Vis len	0.0	00		
Hidn len	0.0			
Operation	0.0			
Other				

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Basemapid	
Input_date	12/15/94
Compiler	T.Jack

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ld	EOR 6			
lshcopy	Y			
Isdigital	Y			
Map_title	Site Survey Dat	a Esso Resources	(Fox Maps)	
Map_series				
Key_locatr				
Key_theme	Site Survey Dat	ta		
Year	1981			
Edition	0			
Scale	0			
Projection				
Cont_int				
Prod_by	ESSO			
Sponsor	ESSO			
Ref_report				
Map_ref				
Map_locatn	Tube 2.01			
Utm_zone				
Mn_zone				
Mx_zone				
Mn_lat_deg	69.95000			
Mn_lon_deg	134.25000			
Mx_lat_deg	70.00000			
Mx_lon_deg	134.75000			
Ul_lat	0.00000	i i lat	0 00000	
Ul lon	0.00000		0.0000	
Ur_lat	0.00000	Lr lat	0 00000	
Ur_lon	0.00000		0 00000	
UI_northng	0		0	
UI easting	0	LI_norting	o o	
Ur northna	0	tr northng	0	
Ur easting	0	t easting	n n	
Data type	P	El_casting	v	
Sym In typ	1			
Size thick	0			
Data color	11			
Sym angle	0			
Ln ply				
Hatch patt	0			
Lbi txt				
Lbl size	0			
Lbl color	0			
Lbl font				
Lbl angle	0			
Ply area	10570.522			
Ln ply len	49390.514			
Vis len	49390.514			
Hidn len	0.0			
Operation				
Other	DIGITAL TITLE= ESSO			
	FIELD= E10			
	LOCATION= (Fox Maps)			
	88/04/12			
Basemapid				
input_date	// 			
Compiler	LJACK/EOR			

Compiler

ld	EOR 116			
Ishcopy	Y			
Isdigital	Y			
Map_title	Franklin Bay - V	Wise Bay- Soun	dings in Meters	
Map_series				
Key_locatr				
Key_theme	Soundings			
Year	1979			
Edition	0			
Scale	0			
Projection				
Cont int				
Prod by	Richardson			
Sponsor	Richardson			
Ref report				
Map ref				
Man locatn	Tube 12,10			
Utm zone				
Mn zone				
Mx zone				
Mn lat deg	70 08300			
Mn lon dea	124 66000			
Min_loin_deg	70 13333			
Mx_lop_deg	124 20000			
MA_IOII_deg	0.0000			
Ullon	0.00000	LI_lat	0.00000	
	0.00000	LI_lon	0.00000	
	0.00000	Lr_lat	0.00000	
Ur_ion	0.00000	Lr_lon	0.00000	
	0	LI_northng	0	
UI_easting	0	Ll_easting	0	
Ur_northing	0	Lr_northng	0	
Ur_easting	0	Lr_easting	0	
Data_type	P			
Sym_in_typ	U			
Size_thick	0			
Data_color	0			
Sym_angle	0			
Ln_ply				
Hatch_patt	0			
Lbi_txt				
Lbl_size	0			
Lbl_color	0			
Lbl_font				
Lbl_angle	0			
Ply_area	2957.206			
Ln_ply_len	21855.990			
Vis_len	21855.990			
Hidn_len	0.0			
Operation Other	LOCATION= FRANKLIN BAY - WISE BAY			
	PROJECT #= WA10130			

Basemapid input_date Compiler

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// T.Jack/EOR

ld	EOR 134				
Ishcopy	Y				
Isdigital	Y				
Map_title	Western Beaufo	Western Beaufort Shelf - Granular Resource Potential Seismic stratigraphy			
Map_series					
Key locatr					
Key_theme	Stratigraphy				
Year	1986				
Edition	0				
Scale	0				
Projection					
Cont int					
Prod by	EOR Ltd.				
Sponsor	EOR Ltd.				
Ref report					
Map ref					
Map locatn	Tube 13.09				
Utm zone					
Mn zone					
Mx zone					
Mn lat deg	69.50000				
Mn lon dea	138,75000				
Mx lat deg	70 25000				
My lon dea	141 25000				
the lat	0 0000				
	0.00000	LI_lat	0.00000		
	0.00000	LI_lon	0.00000		
	0.00000	Lr_lat	0.00000		
Ur_ion	0.00000	Lr_lon	0.00000		
UI_northing	0	LI_northng	0		
UI_easting	Ű	LI_easting	0		
Ur_northing	Ű	Lr_northng	0		
Ur_easting	U D	Lr_easting	0		
Data_type	Р				
Sym_in_typ	0				
Size_thick	0				
Data_color	0				
Sym_angle	0				
Ln_ply	QCK01				
Hatch_patt	0				
Lbl_txt					
Lbl_size	0				
Lbl_color	0				
Lbl_font					
Lbl_angle	0				
Ply_area	796578.71	7			
Ln_ply_len	359426.51	8			
Vis_len	359426.	518			
Hidn_len	0.0				
Operation					
Other	LOCATION= W	ESTERN BEAUFO	RT SHELF		

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/ / T.Jack/EOR

ld	EOR 197			
Ishcopy	Y			
Isdigital	Y			
Map_title	Edlok - Site Survey Trak Plot & Grab Samples			
Map_series		-	•	
Key_locatr				
Key theme	TRAKPLOT			
Year	1985			
Edition	0			
Scale	0			
Projection				
Cont int				
Prod_by	GeoMarine			
Sponsor	GeoMarine			
Ref report				
Map ref				
Map locatn	Tube 19.12			
Utm zone	· · · · · · · · · · · · ·			
Mn zone				
Mx zone				
Mn lat deg	69,73333			
Mn Ion deg	140,16666			
Mx lat deg	69.80000		•	
Mx lon deg	140.36666			
UI lat	0.00000	11.1.4	0.00000	
UI Ion	0.00000	LI_IAL	0.00000	
Ur lat	0.00000		0.00000	
Ur ion	0.00000	Lr_lat	0.00000	
UI northng	0		0.00000	
(II easting	0		0	
Ur northng	ň	LI_easting	U	
Ur easting	0	Lr_northing	U	
Data type	P	LI_easting	U	
Sym in typ				
Size thick	ů			
Data color	Ő			
Sym angle	0			
In niv				
Hatch natt				
I bl. txt	v			
L bl cize	0			
	ů			
Lbl_cont	Ū			
LbL angle	n			
Plv area	5685 911	r		
in niv ien	30200 541			
Vis len	30233.04			
Hidn len	0.0			
Operation	0.0			
Other				
	LOOK HON- ED			

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